

**VOYAGE
AUTOUR DU MONDE
FAIT
PAR ORDRE DU ROI.**

VOYAGE AUTOUR DU MONDE,

Entrepris par ordre du Roi,

**Sous le ministère et conformément aux instructions de S. EXC. M. LE VICOMTE DU BOUCHAGE,
secrétaire d'état au département de la marine,**

*Exécuté sur les corvettes de S. M. l'Oranie et la Physicienne,
pendant les années 1817, 1818, 1819 et 1820;*

Publié sous les auspices

DE M. L'AMIRAL DUPERRÉ, MINISTRE SECRÉTAIRE D'ÉTAT DE LA MARINE ET DES COLONIES;

PAR M. LOUIS DE FREYCINET,

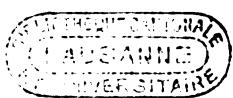
**Capitaine de vaisseau, Chevalier de Saint-Louis, Commandeur de la Légion d'honneur, Membre de l'Académie
royale des sciences de l'Institut et du Bureau des longitudes, etc.; Commandant de l'expédition.**

Magnétisme terrestre.

AVB 364

**PARIS,
IMPRIMERIE ROYALE.**

1842.



PRÉFACE.

La publication des parties du *Voyage de l'Uranie* relatives au *Magnétisme terrestre*, à la *Météorologie*, et aux *Recherches sur les Langues*, s'étant trouvée retardée par des causes indépendantes de ma volonté, et dont il serait au moins superflu d'entretenir le lecteur, je crois devoir annoncer que rien désormais ne s'opposera plus à l'entièvre et prochaine livraison des travaux que j'ai encore à faire paraître.

L'allocation spéciale demandée aux Chambres par M. l'amiral Duperré, ministre de la marine, et vivement appuyée par M. Arago, membre distingué de la Chambre des Députés, et savant secrétaire de l'Académie des sciences, est une garantie certaine de la continuation et de l'achèvement d'une publication trop longtemps interrompue. Quant à moi, voulant donner tous mes soins à l'impression de mon ouvrage, je me suis imposé une retraite qui me laisse le loisir nécessaire pour me libérer aussi promptement que possible des engagements que j'ai contractés envers les savants et le public.

Août 1842.

Louis DE FREYCINET.

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VOYAGE AUTOUR DU MONDE,

PENDANT LES ANNÉES

1817, 1818, 1819 ET 1820.

MAGNÉTISME.

CHAPITRE PREMIER.

CONSIDÉRATIONS PRÉLIMINAIRES SUR LES INSTRUMENTS MAGNÉTIQUES DE L'EXPÉDITION.

Indépendamment de quelques formules qui seront répandues ça et là dans cet ouvrage, nous avons à parler des instruments dont nous avons fait usage pendant le voyage; dans le nombre se trouvent diverses boussoles d'inclinaison et de déclinaison, à chacune desquelles sont affectées plusieurs aiguilles; les unes ne devaient être observées qu'à *terre*; les autres, qui étaient suspendues, le pouvaient être *à terre et à la mer*.

Boussoles d'inclinaison. — Je n'ai rien à ajouter à ce que l'on sait des *boussoles terrestres d'inclinaison*; les nôtres étaient, comme les instruments précédents, de la construction de Lenoir: cinq aiguilles (1) leur étaient affectées.

(1) Une de ces aiguilles, le n° 4, était de la construction de Richer; son peu d'épaisseur était extrême et son axe très-délié.

Notre *boussole marine d'inclinaison*, du même artiste, n'avait que les deux aiguilles n° 5 et 6, dont les dimensions étaient beaucoup plus grandes que celles des premières. Sa construction se rapprochait de la précédente; elle en différait aussi sous plusieurs rapports. Un vaste *manchon en cuivre* renfermait l'appareil, suspendu lui-même à un *mouvement de Cardan*; une alidade horizontale servait à ramener le tout dans l'azimut désiré. Un fil à plomb (1) en réglait ensuite la verticalité, et l'aiguille était maintenue par une fourchette en pierre fine, qui bornait ses écarts pendant les oscillations.

La grande dimension, et surtout le poids extrême de ces aiguilles, donnaient lieu à plusieurs inconvénients. Les frottements, étant trop forts, rendaient l'aiguille paresseuse; aussi, lorsqu'on la faisait osciller, ne revenait-elle pas toujours au point de départ, et restait-elle un peu du côté où on l'avait attirée. Cet inconvénient était capital: on ne pouvait y remédier qu'en n'observant jamais l'aiguille en repos. Mais sous quelle amplitude convenait-il de l'étudier? Si l'arc était *trop grand*, le milieu entre deux observations successives devenait d'autant plus erroné que ses oscillations étaient plus inégales; et lorsqu'elles étaient *petites*, le frottement en altérait sensiblement la position. Mais n'y avait-il pas certaines amplitudes où la somme des arcs de deux oscillations successives fussent sensiblement égales? L'expérience nous a appris que l'angle de 10 à 12° avait à peu près cette propriété; quand les arcs avaient moins d'étendue, l'influence des frottements était trop forte; mais quand il y en avait *davantage* ils diminuaient avec trop de rapidité.

C'est donc à ce point de 10 à 12° que nous commençons à compter les oscillations, et il fallait les prendre en nombre pair; les moyennes donnaient alors très-sensiblement des quantités égales, qui étaient les *inclinaisons cherchées*; toutes d'ailleurs étaient *un peu trop fortes*. Une seconde série, où l'on prenait les oscillations en commençant par les plus petits arcs, donnait au contraire les inclinaisons *un peu trop*

(1) Nous avons trouvé que le fil à plomb était de moyen à la fois le plus simple et le plus exact pour régler en mer la verticalité de l'instrument.

faibles : la moyenne des quatre était, à bien peu près, *l'inclinaison exacte*.

Supposons l'aiguille en repos; d'abord en la faisant osciller il pouvait arriver deux cas : ou l'aiguille était *attirée*, ou bien elle était *repoussée*. Dans la première supposition, elle avait une tendance à s'arrêter à droite, je suppose, sens dans lequel elle était repoussée ; dans la seconde, sa tendance était de s'arrêter à gauche : la moyenne devait donc se trouver purgée de la cause d'erreur que nous considérons.

Résumons maintenant l'opération de la mesure de l'inclinaison tout entière :

1° Par le changement des pôles (1) on obtenait la correction d'équilibre de l'aiguille ;

2° En lisant sa *pointe haute* et sa *pointe basse*, l'excentricité se trouvait corrigée ;

3° L'aiguille étant tournée successivement face E. et face O., *l'angle que faisait son axe magnétique avec son axe de figure* était aussi par là corrigé ;

4° L'aiguille étant en mouvement par *grands arcs* et *petits arcs*, les premières lectures donnent d'abord des résultats *un peu trop grands*; en observant par *petits arcs* et *grands arcs*, on les a ensuite *un peu trop petits*; la moyenne des quatre corrige *l'erreur de frottement* ;

5° Enfin en observant, comme il est dit plus haut, par *Nord attiré* et par *Nord repoussé*, ou corrigeait *l'erreur d'inertie*.

On verra à quelle exactitude remarquable nous sommes parvenus par cette marche. (Voyez, entre autres (chapitre III), les observations d'inclinaison des 19 et 20 août 1819, où l'on a comparé les résultats trouvés à bord avec ceux obtenus à terre.)

Souvent l'observation d'inclinaison était complète ; d'autres fois, pour abréger, nous ne faisions point le changement des pôles, mais nous tenions compte, par le calcul, de l'erreur d'équilibration, soit que l'expérience eût été faite à terre, soit qu'elle eût eu lieu en mer. Les inclinaisons sans changer les pôles ont été ensuite réunies, et corrigées de l'erreur reconnue.

(1) Pour aimanter nos aiguilles, nous nous servions de la méthode de *la double touche* ; à cet effet nous avions deux grands faisceaux magnétiques de seize lames pour supporter l'aiguille, et deux autres plus petits pour faire les frictions.

Dans le cours de nos expériences, nous n'avons pas omis d'essayer diverses méthodes d'observation qui nous avaient été conseillées ; en général, je les ai trouvées moins commodes que la méthode directe. Celle qui consiste à observer l'aiguille *dans quatre plans rectangulaires* est d'une pratique laborieuse, et n'offre pas un avantage qui compense sa longueur.

Nous avons constamment observé en mouvement nos *aiguilles d'inclinaison* et *celles de déclinaison* ; les observer en repos, après les avoir préalablement fait osciller, était d'une longueur rebutante : nous n'avons fait l'essai de cette manière d'observer que pendant notre séjour aux Malouines.

Dans un long voyage sur mer, il est bien difficile de conserver toujours parfaitement nets les axes (1) des aiguilles d'inclinaison. Le *frottement*, dans ce cas, est une source constante d'erreurs ; je l'ai corrigée, ainsi qu'on l'a vu plus haut ; il en est de même de l'*erreur d'inertie*, soit qu'on ait fait usage de la boussole marine d'inclinaison, soit qu'on se soit servi de celle d'inclinaison terrestre.

Boussole de déclinaison. — Nos compas de variation, ou *boussoles de déclinaison marine*, ne différaient point de ce qui est généralement connu sous ce nom ; ils en avaient les inconvénients et les avantages. Mais les *boussoles de déclinaison terrestre* avaient une lunette plongeante, ce qui permettait de placer l'aiguille sur chacune de ses faces, et de corriger l'erreur de l'axe magnétique ; on eût pu en faire autant avec nos compas de variation. Ces aiguilles terrestres, n'étant pas comme les autres surchargées d'une *rose des vents*, offraient aussi moins de frottement sur leur pivot, et pouvaient donner, par conséquent, plus d'exactitude.

Nous avons trouvé commode d'avoir une règle pratique pour conclure la valeur et la direction de la déclinaison de l'aiguille aimantée ; elle consiste :

(1) Voici un moyen excellent, que j'ai employé peut-être un peu tard, pour conserver parfaitement nettes nos diverses aiguilles magnétiques et les couteaux de nos pendules ; il consiste à les envelopper dans de la *flanelle sèche*, et à les mettre ensuite, soit dans un étui en cuivre fermé et mastiqué, soit dans un tube de verre fermant avec un bouchon à vis, soudé avec de la cire dure.

1° A réduire les angles vrais et les angles magnétiques à n'avoir qu'une même origine ; par exemple, à être comptés l'un et l'autre du Nord vers l'Est, et non pas l'un du Nord vers l'Est, et l'autre de l'Est vers le Nord ou du Sud vers l'Est ;

2° A prendre la différence des deux angles ainsi réduits, ou leur somme, si la mire se trouvait entre le méridien vrai et le méridien magnétique ; ce sera la valeur numérique de la déclinaison ;

3° Pour savoir si cette déclinaison est N. E. ou N. O., on construira d'abord la ligne N. S., puis l'azimut vrai de la mire ;

4° A partir de cet azimut vrai, on tracera le méridien magnétique en allant du côté où l'on a mesuré l'azimut vrai ;

5° Enfin, l'inspection de la figure montrera si le méridien magnétique est à l'Est ou à l'Ouest du méridien vrai.

En réfléchissant sur les causes d'erreur qui affectent *la boussole de déclinaison terrestre*, on voit qu'indépendamment de l'observation des deux points N. et S., ayant et après le retournement, il faut encore tenir compte de *l'erreur des frottements* et de *celle d'inertie* : on les corrige ainsi que nous l'avons dit en parlant de l'inclinaison.

Lunette magnétique. — Ce dernier appareil nous a servi à mesurer les *variations horaires en déclinaison*. Il consiste en une forte aiguille de forme prismatique, qui supporte une lunette : le tout oscillant autour d'un fil de soie sans torsion. Une mire placée à grande distance, et ayant des divisions dont l'expérience fait connaître la valeur angulaire, servait, pour chaque station, à donner les diverses positions de l'aiguille.

Aiguilles d'intensité. — Nous avions des aiguilles spéciales qui, placées dans des boîtes où cages vitrées, faisaient connaître par leurs oscillations la force magnétique relative de l'aiguille. Une échelle de parties égales, tracée sur une des glaces de la boîte, et réduite ensuite en degrés par les moyens connus, donnait enfin le rapport de ces intensités.

A l'Île-de-France, une de nos aiguilles d'intensité fut posée accidentellement auprès d'un de nos grands *faisceaux magnétiques*; cet accident, en changeant la dose de magnétisme de l'aiguille, nous a forcés de la considérer comme une aiguille nouvelle. Par suite de cet

événement, nos aiguilles n° 7 et 8 sont les seules qui aient été conservées intactes pendant tout le voyage ; elles ont été mises en expérience au retour à Paris, pour montrer combien elles avaient perdu de leur magnétisme dans l'intervalle.

Indépendamment des aiguilles spéciales d'intensité dont il est ici question, nous avons, et nous le devions, fait souvent osciller nos aiguilles d'inclinaison. Plusieurs causes se sont opposées à ce que nous obtinssions les résultats que nous avions en vue.

Comme instrument d'observation terrestre, notre aiguille d'inclinaison n° 0 avait été réservée, dès le principe, à la mesure des intensités, et par cette raison ne devait pas être réaimantée pendant le voyage ; mais, à l'Ile-de-France, les axes de cette aiguille se trouvèrent rouillés : il fallut les faire repolir. L'ouvrier, malgré les recommandations contraires, crut devoir les démonter ; il les cassa et en reposa d'autres ; mais déjà tant de dérangements rendaient cette aiguille impropre aux observations délicates auxquelles nous la destinions : il fallut y renoncer.

Nos aiguilles marines avaient plusieurs fois été aimantées à saturation, en changeant les pôles, et il en était de même des autres aiguilles d'inclinaison ; nous ne pouvions donc pas nous en servir pour nos mesures d'intensité, et c'est avec regret que nous nous sommes vu forcé d'abandonner cette partie de nos expériences, à laquelle nous avions donné des soins laborieux.

Voici la table dont nous avons fait usage pour réduire en oscillations infiniment petites les nombres observés ; elle est due à Borda, qui l'avait calculée pour servir au voyage de d'Entrecasteaux.

TABLE de la durée des oscillations de l'aiguille aimantée, en supposant que la durée d'une oscillation infiniment petite est représentée par l'unité.

| AMPLITUDE de l'oscillation. | DURÉE de l'oscillation. | AMPLITUDE de l'oscillation. | DURÉE de l'oscillation. | AMPLITUDE de l'oscillation. | DURÉE de l'oscillation. | AMPLITUDE de l'oscillation. | DURÉE de l'oscillation. |
|-----------------------------------|-------------------------------|-----------------------------------|-------------------------------|-----------------------------------|-------------------------------|-----------------------------------|-------------------------------|
| 0° | 1,000 | 16° | 1,005 | 32° | 1,020 | 48° | 1,046 |
| 1 | 1,000 | 17 | 1,006 | 33 | 1,021 | 49 | 1,048 |
| 2 | 1,000 | 18 | 1,006 | 34 | 1,023 | 50 | 1,050 |
| 3 | 1,000 | 19 | 1,007 | 35 | 1,024 | 51 | 1,052 |
| 4 | 1,000 | 20 | 1,008 | 36 | 1,025 | 52 | 1,054 |
| 5 | 1,001 | 21 | 1,009 | 37 | 1,027 | 53 | 1,057 |
| 6 | 1,001 | 22 | 1,009 | 38 | 1,028 | 54 | 1,059 |
| 7 | 1,001 | 23 | 1,010 | 39 | 1,030 | 55 | 1,061 |
| 8 | 1,001 | 24 | 1,011 | 40 | 1,031 | 56 | 1,063 |
| 9 | 1,002 | 25 | 1,012 | 41 | 1,033 | 57 | 1,066 |
| 10 | 1,002 | 26 | 1,013 | 42 | 1,035 | 58 | 1,068 |
| 11 | 1,002 | 27 | 1,014 | 43 | 1,036 | 59 | 1,071 |
| 12 | 1,003 | 28 | 1,015 | 44 | 1,038 | 60 | 1,073 |
| 13 | 1,003 | 29 | 1,016 | 45 | 1,040 | 61 | 1,075 |
| 14 | 1,004 | 30 | 1,018 | 46 | 1,042 | 62 | 1,077 |
| 15 | 1,004 | 31 | 1,019 | 47 | 1,044 | 63 | 1,079 |

A l'aide de cette table et des nombres donnés par l'observation, on réduisait la durée des oscillations en oscillations infiniment petites ; voici comment on opérait :

Un des observateurs marquait l'heure à la montre, pendant qu'un autre comptait les oscillations, et disait *top* au commencement et à la fin de chaque dizaine de la série. A cet instant on lisait les amplitudes à droite et à gauche de l'aiguille; on en prenait la moyenne; puis avec cette moyenne et la suivante on avait l'amplitude moyenne-moyenne, qu'on réduisait en degrés à l'aide d'une table spéciale, dont un des éléments, était la distance du centre de l'aiguille à la glace qui portait la division.

Pour chaque amplitude *moyenne-moyenne*, on écrivait ensuite la correction dépendante de l'amplitude; on faisait la somme de ces corrections, et, à cause de l'isochronisme des mouvements, on avait cette proportion :

•

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*Le nombre des oscillations réelles
est à la somme des corrections dépendantes de l'amplitude ,
comme la durée des oscillations réelles , réduites en secondes ,
est à un quatrième terme ,*

qui est la durée, en oscillations infiniment petites, des mouvements de l'aiguille. Plus cette durée sera courte et plus la force magnétique sera grande.

Initiales du nom des observateurs de l'expédition de l'Uranie.

| | | | |
|-----------|------------|---------|------------|
| Frey..... | Freycinet. | B..... | Bérard. |
| Lm..... | Lamarche. | P..... | Pellion. |
| Lc..... | Labiche. | R..... | Railliard. |
| Ld..... | Laborde. | Db..... | Dubaut. |
| Dp..... | Duperrey. | Fr..... | Ferrand. |
| Fb..... | Fabré. | T..... | Tournier. |
| G..... | Guérin. | | |

Messieurs Fr. Arago et Mathieu, de l'Académie des Sciences, ont bien voulu prendre part à nos expériences magnétiques, tant avant le départ qu'au retour de l'expédition.

CHAPITRE II.

INTENSITÉ HORIZONTALE DES FORCES MAGNÉTIQUES.

§ I^{er}. — A Paris, avant le départ.

| OBSERVATION. | DATES et HEURES. | NOMBRE D'ONDES OSCILLATION. | HEURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 7. | | | | | | | | REMARQUES. | |
|---------------------------------|---|--------------------------------|-----------------------------|--|--------------------|--------------------|--------------------|--|---------------|--|-------------------------------|-----------------------------------|--|
| | | | | AMPLITUDES. | | | | CORREC- TIONS DÉPEN- DANTES DE L'AMPLI. | | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | |
| | | | | En parties | | Moyenne-moyenne | | en parties | en degrés. | | réelles. | infinim. petites. (Moyenne) | |
| Arago. Math. Frey. Lm. | 1817. Mars 28. à 5 ^h 22' soir. | 1 | 0 | 5 ^b 14' 2 ^s ,5 | 20 ^p ,0 | 19 ^p ,5 | 19 ^p ,7 | | | | | | L'aiguille d'intensité n° 7 a été faite par Portin, pour l'expédition de l'Uranie; le n° 8 a appartenu à Coulomb; et le n° 9 à MM. de Humboldt et Gay-Lussac. |
| | | 2 | 10 | 15 44,5 | 18,0 | 18,0 | 18,0 | 18 ^p ,8 | 15°,8 | 1,005 | | | |
| | | 3 | 20 | 17 26,5 | 18,0 | 17,0 | 17,5 | 17,7 | 15°,0 | 1,004 | | | |
| | | 4 | 30 | 19 8,0 | 16,0 | 15,0 | 15,5 | 16,5 | 13°,9 | 1,004 | | | |
| | | 5 | 40 | 20 50,0 | 13,0 | 15,0 | 14,0 | 14,7 | 12,5 | 1,003 | | | |
| | | 6 | 50 | 22 31,5 | 13,0 | 13,0 | 13,0 | 13,5 | 11,5 | 1,003 | | | |
| | | 7 | 60 | 24 13,5 | 12,0 | 12,0 | 12,0 | 12,5 | 10,6 | 1,002 | | | |
| | | 8 | 70 | 25 55,0 | 11,0 | 11,5 | 11,2 | 11,6 | 9,9 | 1,002 | | | |
| | | 9 | 80 | 27 36,5 | 10,0 | 10,0 | 10,0 | 10,6 | 9,1 | 1,002 | | | |
| | | 10 | 90 | 29 18,5 | 10,0 | 9,0 | 9,5 | 9,7 | 8,3 | 1,001 | | | |
| | | 11 | 100 | 30 59,5 | 9,0 | 8,5 | 8,7 | 9,1 | 7,8 | 1,001 | 10,027 | 1017,0 | 1014,3 |
| Arago. Math. Frey. Lm. | 30, à 6 ^h 54' soir. | 1 | 0 | 6 47 1,0 | 15,0 | 16,0 | 15,5 | | | | | | La somme des corrections pour 50 oscillations était 5,019, et la durée de 50 oscillations réelles 510'',5: on a pris le double de ces quantités pour avoir la durée finale de 100 oscillations infiniment petites. |
| | | 2 | 10 | 48 43,0 | 14,0 | 15,0 | 14,5 | 15,0 | 12,7 | 1,003 | | | |
| | | 3 | 20 | 50 25,0 | 12,0 | 13,0 | 12,5 | 13,5 | 11,5 | 1,003 | | | |
| | | 4 | 30 | 52 7,0 | 10,0 | 11,0 | 10,5 | 11,5 | 9,8 | 1,002 | | | |
| | | 5 | 40 | 53 49,0 | 9,5 | 11,0 | 10,2 | 10,3 | 8,8 | 1,002 | | | |
| | | 6 | 50 | 55 31,0 | 8,5 | 10,5 | 9,5 | 9,8 | 8,3 | 1,001 | | | |
| | | 7 | 60 | 57 13,0 | 7,5 | 10,0 | 8,7 | 9,1 | 7,8 | 1,001 | | | |
| | | 8 | 70 | 58 55,0 | 7,0 | 9,0 | 8,0 | 8,3 | 7,1 | 1,001 | | | |
| | | 9 | 80 | 60 37,0 | 6,0 | 8,0 | 7,0 | 7,5 | 6,4 | 1,001 | | | |
| | | 10 | 90 | 62 18,5 | 8,0 | 6,0 | 7,0 | 7,0 | 6,0 | 1,001 | | | |
| | | 11 | 100 | 64 1,0 | 7,0 | 5,0 | 6,0 | 6,5 | 5,6 | 1,001 | 10,016 | 1020,0 | 1018,4 |
| Arago. Math. Frey. Lm. | Idem, à 7 ^h 16' soir. | 1 | 0 | 7 12 4,5 | 18,0 | 19,0 | 18,5 | | | | | | La température, à 3 ^h 20' soir = 17 ⁴ ,95 centigrades. N. B. Toutes les autres températures sont également mesurées ici avec le thermomètre centigrade. |
| | | 2 | 10 | 13 46,5 | 18,0 | 19,0 | 18,5 | 18,5 | 15,5 | 1,005 | | | |
| | | 3 | 20 | 15 29,0 | 17,0 | 17,5 | 17,2 | 17,8 | 15,0 | 1,004 | | | |
| | | 4 | 30 | 17 11,0 | 15,0 | 16,0 | 15,5 | 16,3 | 13,7 | 1,004 | | | |
| | | 5 | 40 | 18 53,0 | 14,0 | 14,5 | 14,2 | 14,8 | 12,5 | 1,003 | | | |
| | | 6 | 50 | 20 35,0 | 13,0 | 13,5 | 13,2 | 13,7 | 11,7 | 1,003 | 10,038 | 1021,0 | 1017,1 |
| Arago. Math. Frey. Lm. | Avril 4, à 3 ^h 20' soir. | 1 | 0 | 3 11 12,0 | 23,0 | 23,0 | 23,0 | | | | | | Température, à 3 ^h 20' soir = 17 ⁴ ,95 centigrades. N. B. Toutes les autres températures sont également mesurées ici avec le thermomètre centigrade. |
| | | 2 | 10 | 12 54,5 | 22,0 | 22,0 | 22,0 | 22,5 | 18,7 | 1,007 | | | |
| | | 3 | 20 | 14 37,0 | 20,0 | 20,5 | 20,2 | 21,1 | 17,6 | 1,006 | | | |
| | | 4 | 30 | 16 19,7 | 18,5 | 19,0 | 18,7 | 19,4 | 16,2 | 1,005 | | | |
| | | 5 | 40 | 18 2,3 | 17,5 | 17,5 | 17,5 | 18,1 | 15,2 | 1,004 | | | |
| | | 6 | 50 | 19 45,0 | 16,0 | 16,0 | 16,7 | 16,7 | 14,1 | 1,004 | | | |
| | | 7 | 60 | 21 27,0 | 14,0 | 14,0 | 14,0 | 15,0 | 12,7 | 1,003 | | | |
| | | 8 | 70 | 23 9,5 | 14,0 | 14,0 | 14,0 | 14,0 | 11,9 | 1,003 | | | |
| | | 9 | 80 | 24 51,3 | 13,0 | 13,0 | 13,0 | 13,5 | 11,5 | 1,002 | | | |
| | | 10 | 90 | 26 33,5 | 12,5 | 12,5 | 12,5 | 12,7 | 10,8 | 1,002 | | | |
| | | 11 | 100 | 28 15,5 | 11,0 | 11,5 | 11,2 | 11,8 | 10,0 | 1,002 | 10,038 | 1023,5 | 1019,6 |
| Arago. Math. Frey. Lm. | 28, à 11 ^h 11' matin. | 1 | 0 | 11 0 22,2 | 20,0 | 20,5 | 20,2 | | | | | | Température, à 11 ^h 11' matin = 8 ⁴ ,80. |
| | | 2 | 10 | 2 4,8 | 19,5 | 19,5 | 19,5 | 19,8 | 16,5 | 1,005 | | | |
| | | 3 | 20 | 3 47,4 | 17,5 | 18,0 | 17,7 | 18,6 | 15,6 | 1,005 | | | |
| | | 4 | 30 | 5 30,0 | 16,5 | 16,5 | 16,5 | 17,1 | 14,5 | 1,004 | | | |
| | | 5 | 40 | 7 12,5 | 15,5 | 15,0 | 15,2 | 15,8 | 13,3 | 1,003 | | | |
| | | 6 | 50 | 8 54,8 | 13,5 | 13,5 | 13,5 | 14,3 | 12,1 | 1,003 | | | |
| | | 7 | 60 | 10 37,1 | 12,5 | 12,5 | 12,5 | 13,0 | 11,1 | 1,002 | | | |
| | | 8 | 70 | 12 19,3 | 11,5 | 11,5 | 11,5 | 12,0 | 10,2 | 1,002 | | | |
| | | 9 | 80 | 14 1,7 | 11,0 | 11,0 | 11,0 | 11,2 | 9,6 | 1,002 | | | |
| | | 10 | 90 | 15 43,8 | 9,5 | 9,0 | 9,5 | 10,2 | 8,8 | 1,002 | | | |
| | | 11 | 100 | 17 25,7 | 9,0 | 9,0 | 9,0 | 9,2 | 7,9 | 1,001 | 10,029 | 1023,5 | 1020,5 |
| | | 12 | 110 | 19 7,6 | 8,5 | 8,5 | 8,5 | 8,7 | 7,5 | 1,001 | 10,025 | 1022,8 | 1020,2 |
| | | 13 | 120 | 20 49,3 | 8,0 | 7,5 | 7,7 | 8,1 | 7,0 | 1,001 | 10,021 | 1021,9 | 1019,8 |
| | | 14 | 130 | 22 31,1 | 7,0 | 6,5 | 6,7 | 7,2 | 6,2 | 1,001 | 10,018 | 1021,1 | 1019,3 |
| | | | | | | | | | | | 1019,9 | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 8. | | | | | | | | | | | | REMARQUES. | | |
|---------------------------------|--|--|---------------|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------|-------------------|----------------------|------------|---|--|
| | | NOMBRE D'ORDRES. | OSCILLATIONS. | HEURE du chronomètre. | AMPLITUDES. | | | | | | CORREC- | SOMME des correc- | DURÉE | | | |
| | | | | | En parties | | | Moyenne-moyenne | | | | | de cent oscillations | réelles. | infan- | pétites. (Moyenne) |
| Arago. Math. Frey. Lm. | Mars 28, à 5 ^h 50' soir. | 1 | 0 | 5 ^h 43' 4",0 | 19 ^h ,0 | 19 ^h ,0 | 19 ^h ,0 | En parties | | | 1,004 | 10,024 | 1009",0 | 1006",6 | | |
| | | 2 | 10 | 44 45,0 | 17,5 | 18,0 | 17,7 | 18 ^h ,3 | 15 ^h ,3 | 15 ^h ,3 | | | | | | |
| | | 3 | 20 | 46 26,0 | 15,5 | 16,0 | 15,7 | 16,7 | 14,1 | 14,1 | | | | | | |
| | | 4 | 30 | 48 7,0 | 15,0 | 15,0 | 15,0 | 15,3 | 12,9 | 12,9 | | | | | | |
| | | 5 | 40 | 49 48,0 | 14,0 | 14,0 | 14,0 | 14,5 | 12,3 | 12,3 | | | | | | |
| | | 6 | 50 | 51 29,0 | 13,0 | 13,0 | 13,0 | 13,5 | 11,5 | 11,5 | | | | | | |
| | | 7 | 60 | 53 9,5 | 12,0 | 13,0 | 12,5 | 12,7 | 10,8 | 10,8 | | | | | | |
| | | 8 | 70 | 54 50,5 | 11,0 | 11,0 | 11,0 | 11,7 | 10,0 | 10,0 | | | | | | |
| | | 9 | 80 | 56 31,5 | 10,5 | 10,0 | 10,2 | 10,6 | 9,1 | 9,1 | | | | | | |
| | | 10 | 90 | 58 12,0 | 9,5 | 9,5 | 9,5 | 9,8 | 8,3 | 8,3 | | | | | | |
| | | 11 | 100 | 59 53,0 | 8,5 | 8,5 | 8,5 | 9,0 | 7,7 | 7,7 | | | | | | |
| Arago. Math. Frey. Lm. | 30, à 9 ^h 4' matin. | 1 | 0 | 8 55 44,0 | 16,0 | 14,0 | 15,0 | En parties | | | 1,003 | 10,014 | 1011,0 | 1009,6 | Température, à 9 ^h 4' matin = 13 ⁴ ,25. | |
| | | 2 | 10 | 57 25,5 | 12,0 | 15,5 | 13,7 | 14,3 | 12,1 | 12,1 | | | | | | |
| | | 3 | 20 | 59 6,5 | 10,0 | 14,0 | 12,0 | 12,8 | 10,8 | 10,8 | | | | | | |
| | | 4 | 30 | 60 47,5 | 10,5 | 9,0 | 9,7 | 10,8 | 9,2 | 9,2 | | | | | | |
| | | 5 | 40 | 62 28,5 | 10,5 | 9,0 | 9,7 | 9,7 | 8,3 | 8,3 | | | | | | |
| | | 6 | 50 | 64 10,0 | 9,5 | 9,0 | 9,2 | 9,4 | 8,0 | 8,0 | | | | | | |
| | | 7 | 60 | 65 51,5 | 9,0 | 6,0 | 7,5 | 8,3 | 7,1 | 7,1 | | | | | | |
| | | 8 | 70 | 67 32,5 | 9,5 | 5,5 | 7,0 | 7,2 | 6,2 | 6,2 | | | | | | |
| | | 9 | 80 | 69 13,2 | 8,0 | 5,0 | 6,5 | 6,7 | 5,8 | 5,8 | | | | | | |
| | | 10 | 90 | 70 54,0 | 8,0 | 5,0 | 6,5 | 6,5 | 5,6 | 5,6 | | | | | | |
| | | 11 | 100 | 72 35,0 | 6,5 | 4,0 | 5,2 | 5,8 | 4,9 | 4,9 | | | | | | |
| Arago. Math. Frey. Lm. | Avril 4, à 4 ^h 6' soir. | 1 | 0 | 3 57 59,0 | 15,0 | 15,0 | 15,0 | En parties | | | 1,002 | 10,017 | 1011,5 | 1009,8 | Température, à 4 ^h 6' soir = 17 ⁴ ,90. | |
| | | 2 | 10 | 59 40,5 | 14,5 | 14,5 | 14,5 | 14,7 | 12,5 | 12,5 | | | | | | |
| | | 3 | 20 | 61 20,7 | 13,5 | 13,5 | 13,5 | 14,0 | 11,9 | 11,9 | | | | | | |
| | | 4 | 30 | 63 3,0 | 12,0 | 12,0 | 12,0 | 12,0 | 12,7 | 10,8 | | | | | | |
| | | 5 | 40 | 64 44,0 | 11,5 | 11,5 | 11,5 | 11,5 | 11,7 | 10,0 | | | | | | |
| | | 6 | 50 | 66 25,5 | 10,5 | 10,0 | 10,2 | 10,8 | 9,2 | 9,2 | | | | | | |
| | | 7 | 60 | 68 6,5 | 9,0 | 9,0 | 9,0 | 9,0 | 9,6 | 8,2 | | | | | | |
| | | 8 | 70 | 69 47,5 | 9,0 | 9,5 | 9,2 | 9,1 | 7,8 | 7,8 | | | | | | |
| | | 9 | 80 | 71 28,5 | 8,5 | 8,5 | 8,5 | 8,5 | 8,8 | 7,5 | | | | | | |
| | | 10 | 90 | 73 9,5 | 7,0 | 7,0 | 7,0 | 7,0 | 7,7 | 6,6 | | | | | | |
| | | 11 | 100 | 74 50,5 | 6,5 | 7,0 | 6,7 | 6,8 | 5,8 | 5,8 | | | | | | |
| | | 12 | 110 | 76 31,5 | 6,0 | 6,0 | 6,0 | 6,3 | 5,4 | 5,4 | | | | | | |
| Arago. Math. Frey. Lm. | 28, à 10 ^h 30' matin. | 1 | 0 | 10 22 22,6 | 15,0 | 14,0 | 14,5 | En parties | | | 1,003 | 10,015 | 1011,4 | 1009,5 | 1009,6 | Température, à 10 ^h 30' matin = 8 ⁴ ,46. |
| | | 2 | 10 | 24 3,8 | 14,0 | 13,0 | 13,5 | 14,0 | 11,9 | 11,9 | | | | | | |
| | | 3 | 20 | 25 45,0 | 13,5 | 12,5 | 13,0 | 13,2 | 11,3 | 11,3 | | | | | | |
| | | 4 | 30 | 27 26,6 | 12,5 | 11,5 | 12,0 | 11,5 | 10,6 | 10,6 | | | | | | |
| | | 5 | 40 | 29 7,7 | 11,0 | 10,0 | 10,5 | 12,2 | 9,6 | 9,6 | | | | | | |
| | | 6 | 50 | 30 49,1 | 10,0 | 9,0 | 9,5 | 10,0 | 8,6 | 8,6 | | | | | | |
| | | 7 | 60 | 32 30,3 | 9,5 | 8,5 | 9,0 | 9,2 | 7,9 | 7,9 | | | | | | |
| | | 8 | 70 | 34 11,5 | 9,0 | 8,0 | 8,5 | 8,7 | 7,5 | 7,5 | | | | | | |
| | | 9 | 80 | 35 52,6 | 8,0 | 7,0 | 7,5 | 8,0 | 6,9 | 6,9 | | | | | | |
| | | 10 | 90 | 37 33,6 | 7,5 | 6,5 | 7,0 | 7,2 | 6,2 | 6,2 | | | | | | |
| | | 11 | 100 | 39 14,4 | 7,0 | 6,0 | 6,5 | 6,7 | 5,8 | 5,8 | | | | | | |
| | | 12 | 110 | 40 55,2 | 6,5 | 5,0 | 5,7 | 6,1 | 5,3 | 5,3 | | | | | | |

| OBSERVATEUR. | DATES et HEURES. | NOMBRE D'OSCILL. DU CHRONOMÈTRE. | HAUTEUR DU CHRONOMÈTRE. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | | | REMARQUES. | |
|---------------------------------|--|-------------------------------------|----------------------------|--|------|------|-----------------|------|---|---------------|---|-----------------------------------|--|------------|---|
| | | | | AMPLITUDES. | | | | | CORREC- TIONS DÉPEN- DANTES DE L'AMPLI- TUD. | | SOMME DES CORRE- CTIONS POUR CENT OSCILLAT. | | | | |
| | | | | EN PARTIES | | | MOYENNE-MOYENNE | | en parties. | en degrés. | RÉELLES. | INFINIM. PETITES. (MOYENNE) | | | |
| Arago. Math. Frey. Lm. | 1817. Avril 29. à 11 ^h 43' matin. | 1 0 | 11 ^h 33' 44",8 | 18,0 | 18,0 | 18,0 | | | | | | | | | Température, à 11 ^h 43' matin = 14 ⁴ ,30. |
| | | 2 10 | 34 37,8 | 16,0 | 16,5 | 16,2 | 17,1 | 23,4 | 1,010 | | | | | | |
| | | 3 20 | 35 30,9 | 16,0 | 16,0 | 16,0 | 16,1 | 22,2 | 1,009 | | | | | | |
| | | 4 30 | 36 23,8 | 12,0 | 13,0 | 12,5 | 14,2 | 19,9 | 1,007 | | | | | | |
| | | 5 40 | 37 16,8 | 13,0 | 13,0 | 13,0 | 12,7 | 17,8 | 1,006 | | | | | | |
| | | 6 50 | 38 9,3 | 12,0 | 12,0 | 12,0 | 12,5 | 17,4 | 1,006 | | | | | | |
| | | 7 60 | 39 2,1 | 11,0 | 11,5 | 11,2 | 11,6 | 16,4 | 1,005 | | | | | | |
| | | 8 70 | 39 54,8 | 11,0 | 11,0 | 11,0 | 11,1 | 15,7 | 1,005 | | | | | | |
| | | 9 80 | 40 47,6 | 10,0 | 10,0 | 10,0 | 10,5 | 14,9 | 1,004 | | | | | | |
| | | 10 90 | 41 40,5 | 10,0 | 10,0 | 10,0 | 10,0 | 14,2 | 1,004 | | | | | | |
| | | 11 100 | 42 33,0 | 9,0 | 9,0 | 9,0 | 9,5 | 13,6 | 1,004 | 10,060 | 528",2 | 525",0 | | | |
| | | 12 110 | 43 25,6 | 8,5 | 8,5 | 8,5 | 8,7 | 12,4 | 1,003 | 10,053 | 527,8 | 525,0 | | | |
| | | 13 120 | 44 18,2 | 7,5 | 8,0 | 7,7 | 8,1 | 11,6 | 1,003 | 10,047 | 527,3 | 524,8 | | | |
| | | 14 130 | 45 10,8 | 7,0 | 7,0 | 7,0 | 7,3 | 10,5 | 1,002 | 10,042 | 527,0 | 524,8 | | | |
| | | 15 140 | 46 3,2 | 7,0 | 7,0 | 7,0 | 7,0 | 10,1 | 1,002 | 10,038 | 526,4 | 524,4 | | | |
| | | 16 150 | 46 55,9 | 6,5 | 6,5 | 6,5 | 6,7 | 9,6 | 1,002 | 10,034 | 526,6 | 524,8 | | | |
| | | 17 160 | 47 48,3 | 6,0 | 6,5 | 6,2 | 6,3 | 9,1 | 1,002 | 10,031 | 526,2 | 524,6 | | | |
| | | 18 170 | 48 41,0 | 5,5 | 6,0 | 5,7 | 5,9 | 8,4 | 1,001 | 10,027 | 526,2 | 524,8 | | | |
| | | 19 180 | 49 33,7 | 5,0 | 6,0 | 5,5 | 5,6 | 8,0 | 1,001 | 10,027 | 526,1 | 524,7 | | | |
| | | 20 190 | 50 26,1 | 5,0 | 5,5 | 5,2 | 5,3 | 7,6 | 1,001 | 10,021 | 525,6 | 524,5 | | | |
| | | 21 200 | 51 18,7 | 5,0 | 5,0 | 5,0 | 5,1 | 7,3 | 1,001 | 10,018 | 525,7 | 524,8 | | | |
| | | | | | | | | | | | 524,7 | | | | |
| Arago. Math. Frey. Lm. | 29 à midi 19'. | 1 0 | 12 13 57,0 | 8,0 | 8,0 | 8,0 | | | | | | | | | Température, à 0 ^h 19' = 14 ⁴ ,60. |
| | | 2 10 | 14 49,8 | 6,5 | 7,0 | 6,7 | 7,3 | 10,5 | 1,002 | | | | | | |
| | | 3 20 | 15 42,3 | 6,5 | 7,0 | 6,7 | 6,7 | 9,6 | 1,002 | | | | | | |
| | | 4 30 | 16 34,8 | 6,0 | 6,5 | 6,2 | 6,4 | 9,2 | 1,002 | | | | | | |
| | | 5 40 | 17 27,2 | 5,5 | 6,0 | 5,7 | 5,9 | 8,4 | 1,001 | | | | | | |
| | | 6 50 | 18 20,0 | 5,5 | 6,0 | 5,7 | 5,7 | 8,1 | 1,001 | | | | | | |
| | | 9 60 | 19 12,7 | 5,0 | 6,0 | 5,5 | 5,6 | 8,0 | 1,001 | | | | | | |
| | | 8 70 | 20 5,6 | 4,5 | 5,0 | 4,7 | 5,1 | 7,3 | 1,001 | | | | | | |
| | | 9 80 | 20 58,0 | 4,5 | 5,0 | 4,7 | 4,7 | 6,7 | 1,001 | | | | | | |
| | | 10 90 | 21 50,8 | 4,0 | 5,0 | 4,5 | 4,0 | 6,6 | 1,001 | | | | | | |
| | | 11 100 | 22 43,2 | 4,0 | 4,5 | 4,2 | 4,3 | 6,2 | 1,001 | 10,013 | 526,2 | 525,5 | | | |
| | | 12 110 | 23 35,8 | 4,0 | 4,5 | 4,2 | 4,2 | 6,1 | 1,001 | 10,012 | 526,0 | 525,4 | | | |
| | | 13 120 | 24 28,3 | 3,5 | 4,5 | 4,0 | 4,1 | 5,9 | 1,001 | 10,011 | 526,0 | 525,4 | | | |
| | | | | | | | | | | | 525,4 | | | | |

VOYAGE AUTOUR DU MONDE.

§ II. A Sainte-Croix (île Ténériffe).

| OBSERVATEUR | DATES et HEURES. | NUMBRS D'ORDRE. OSCILLATIONS. | REURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | REMARQUES. | |
|--------------|--|----------------------------------|-----------------------------|--|--------------------|--------------------|--------------------|---|---------------|----------|------------------------------------|-----------------------------------|--|
| | | | | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | | | | | |
| | | | | En parties | | Moyenne-moyenne | | en parties. | en degrés. | réelles. | infinim. petites. (Moyennes) | | |
| Frey. Dp. | 1817. Octobre 26, 1 ^h 30' soir. | 1 0 | 2 ^h 12' 20",3 | 19 ^p ,0 | 13 ^p ,0 | 16 ^p ,0 | 15 ^p ,5 | 21 ^p ,5 | 1,009 | | | Température = 23 ⁴ ,0. | |
| | | 2 10 | 13 5,5 | 18,0 | 12,0 | 15,0 | | | | | | | |
| | | 3 20 | 13 50,8 | 17,0 | 11,0 | 14,0 | 14,5 | 20,3 | 1,008 | | | | |
| | | 4 30 | 14 36,4 | 15,0 | 9,5 | 12,2 | 13,2 | 18,4 | 1,006 | | | | |
| | | 5 40 | 15 22,0 | 14,0 | 9,0 | 11,5 | 11,8 | 16,6 | 1,006 | | | | |
| | | 6 50 | 16 7,0 | 13,5 | 8,5 | 11,0 | 11,2 | 15,9 | 1,005 | | | | |
| | | 7 60 | 16 52,5 | 10,7 | 6,5 | 8,6 | 9,8 | 13,9 | 1,004 | | | | |
| | | 8 70 | 17 37,3 | 10,7 | 7,7 | 9,2 | 8,9 | 12,7 | 1,003 | | | | |
| | | 9 80 | 18 22,4 | 10,2 | 5,5 | 7,8 | 8,5 | 12,2 | 1,003 | | | | |
| | | 10 90 | 19 7,7 | 10,0 | 5,0 | 7,5 | 7,7 | 11,0 | 1,002 | | | | |
| | | 11 100 | 19 53,0 | 9,7 | 4,5 | 7,1 | 7,3 | 10,5 | 1,002 | 10,048 | 452,7 | | |
| | | 12 110 | 20 37,8 | 9,5 | 4,2 | 6,8 | 7,0 | 10,1 | 1,002 | 10,041 | 452,3 | 450,4 | |
| | | 13 120 | 21 23,3 | 9,0 | 3,5 | 6,2 | 6,5 | 9,4 | 1,002 | 10,035 | 452,5 | 450,9 | |
| | | 14 130 | 22 8,2 | 8,5 | 2,5 | 5,5 | 5,8 | 8,2 | 1,001 | 10,030 | 451,8 | 450,4 | |
| | | 15 140 | 22 53,5 | 8,0 | 2,2 | 5,1 | 5,3 | 7,6 | 1,001 | 10,025 | 451,5 | 450,4 | |
| | | 16 150 | 23 39,0 | 7,5 | 2,2 | 4,8 | 5,0 | 7,2 | 1,001 | 10,021 | 452,0 | 451,0 | |
| | | 17 160 | 24 24,0 | 6,7 | 2,0 | 4,3 | 4,6 | 6,6 | 1,001 | 10,018 | 451,5 | 450,7 | |
| | | 18 170 | 25 8,5 | 6,5 | 1,7 | 4,1 | 4,2 | 6,1 | 1,001 | 10,016 | 451,2 | 450,5 | |
| | | 19 180 | 25 54,0 | 6,2 | 1,5 | 3,8 | 4,0 | 5,8 | 1,001 | 10,014 | 451,6 | 451,0 | |
| | | 20 190 | 26 38,7 | 6,0 | 1,2 | 3,6 | 3,7 | 5,3 | 1,001 | 10,013 | 451,0 | 450,4 | |
| | | 21 200 | 27 24,2 | 5,7 | 1,0 | 3,4 | 3,5 | 5,1 | 1,001 | 10,012 | 451,2 | 450,7 | |
| | | 22 210 | 28 9,6 | 5,5 | 0,7 | 3,1 | 3,2 | 4,7 | 1,001 | 10,011 | 451,8 | 451,3 | |
| | | 23 220 | 28 54,3 | 5,2 | 0,5 | 2,8 | 3,0 | 4,4 | 1,000 | 10,009 | 451,0 | 450,6 | |
| | | 24 230 | 29 39,6 | 5,0 | 0,2 | 2,6 | 2,7 | 3,1 | 1,000 | 10,008 | 451,4 | 451,0 | |
| | | | | | | | | | | | | 450,7 | |
| Frey. Dp. | Octobre 26, à 2 ^h 0' soir. | 1 0 | 2 42 53,0 | 12,0 | 12,0 | 12,0 | | | | | | Température = 23 ⁴ ,2. | |
| | | 2 10 | 43 37,8 | 11,2 | 11,2 | 11,2 | 11,6 | 16,4 | 1,005 | | | | |
| | | 3 20 | 44 23,3 | 10,0 | 10,0 | 10,0 | 10,6 | 15,0 | 1,004 | | | | |
| | | 4 30 | 45 9,6 | 9,2 | 9,2 | 9,2 | 9,6 | 13,7 | 1,004 | | | | |
| | | 5 40 | 45 53,9 | 8,5 | 8,5 | 8,5 | 8,8 | 12,5 | 1,003 | | | | |
| | | 6 50 | 46 39,3 | 7,7 | 7,7 | 7,7 | 8,1 | 11,6 | 1,003 | | | | |
| | | 7 60 | 47 24,6 | 7,0 | 7,0 | 7,0 | 7,3 | 10,5 | 1,002 | | | | |
| | | 8 70 | 48 9,3 | 6,5 | 6,2 | 6,3 | 6,7 | 9,6 | 1,002 | | | | |
| | | 9 80 | 48 54,6 | 6,2 | 5,7 | 6,0 | 6,2 | 9,0 | 1,002 | | | | |
| | | 10 90 | 49 40,0 | 6,0 | 5,5 | 5,7 | 5,8 | 8,2 | 1,001 | | | | |
| | | 11 100 | 50 25,0 | 5,7 | 5,2 | 5,5 | 5,6 | 8,0 | 1,001 | 10,027 | 7 32,0 | 450,8 | |
| | | 12 110 | 51 10,6 | 5,5 | 5,0 | 5,2 | 5,3 | 7,6 | 1,001 | 10,023 | 7 32,8 | 451,8 | |
| | | 13 120 | 51 55,4 | 5,2 | 4,5 | 4,8 | 5,0 | 7,2 | 1,001 | 10,020 | 7 32,1 | 451,2 | |
| | | 14 130 | 52 40,2 | 5,0 | 4,2 | 4,6 | 4,7 | 6,7 | 1,001 | 10,017 | 7 30,6 | 449,8 | |
| | | 15 140 | 53 25,6 | 4,7 | 4,0 | 4,3 | 4,5 | 6,5 | 1,001 | 10,015 | 7 31,7 | 451,0 | |
| | | 16 150 | 54 10,8 | 4,5 | 3,7 | 4,1 | 4,2 | 6,1 | 1,001 | 10,013 | 7 31,5 | 450,9 | |
| | | 17 160 | 54 56,0 | 4,2 | 3,5 | 3,8 | 4,0 | 5,8 | 1,001 | 10,012 | 7 31,4 | 450,8 | |
| | | 18 170 | 55 40,8 | 4,0 | 3,2 | 3,6 | 3,7 | 5,3 | 1,001 | 10,011 | 7 31,5 | 451,0 | |
| | | 19 180 | 56 26,0 | 3,7 | 3,0 | 3,3 | 3,5 | 5,1 | 1,001 | 10,010 | 7 31,4 | 450,9 | |
| | | 20 190 | 57 11,0 | 3,5 | 2,7 | 3,1 | 3,2 | 4,7 | 1,001 | 10,010 | 7 31,0 | 450,5 | |
| | | 21 200 | 57 56,6 | 3,2 | 2,5 | 2,8 | 3,0 | 4,4 | 1,000 | 10,009 | 7 31,6 | 451,2 | |
| | | 22 210 | 58 41,2 | 3,0 | 2,2 | 2,6 | 2,7 | 3,8 | 1,000 | 10,008 | 7 30,6 | 450,2 | |
| | | 23 220 | 59 26,3 | 2,7 | 2,0 | 2,3 | 2,5 | 3,6 | 1,000 | 10,007 | 7 30,9 | 450,6 | |
| | | | | | | | | | | | | 450,8 | |

§ III. — A Rio de Janeiro (1^{re} relâche).

| OBSERVATEURS. | DATES et HEURES. | N ^o s. d'ORDRE. | OSCILLATIONS. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N ^o s 7 ET 8. | | | | | | | | | | REMARQUES. | | | |
|---------------|---|----------------------------|---------------|--|-------------------|-------------------|-------------------|-------------------|------------|--|--|-------------------------------|------------------------------------|--|----------------------|--|--|
| | | | | HEURE du chronomètre. | AMPLITUDES. | | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | | | |
| | | | | | En parties | | Moyenne-moyenne | | | | | réelles. | infinim. petites. (Moyennes) | | | | |
| | | | | | à gauche. | à droite. | Moyenn. | en parties. | en degrés. | | | | | | | | |
| Frey. Dp. | 1817. Décem. 23, à 3 ^h 30' soir. | 1 | 0 | 7 ^h 45' 32",0 | 15 ^h 0 | 15 ^h 0 | 15 ^h 0 | 14 ^h 2 | 12°,1 | 1,003 | | | | Pendant cette observation le temps était orangé, et l'on entendait le tonnerre gronder dans le N. O. Température = 23°,0. Aiguille n ^o 7. | | | |
| | | 2 | 10 | 46 50,0 | 13,5 | 13,5 | 13,5 | 12,7 | 10,8 | 1,002 | | | | | | | |
| | | 3 | 20 | 48 7,5 | 12,0 | 12,0 | 12,0 | 11,5 | 9,8 | 1,002 | | | | | | | |
| | | 4 | 30 | 49 25,0 | 11,0 | 11,0 | 11,0 | 11,5 | 10,2 | 1,002 | | | | | | | |
| | | 5 | 40 | 50 43,0 | 9,5 | 9,5 | 9,5 | 8,0 | 8,7 | 1,001 | | | | | | | |
| | | 6 | 50 | 52 1,0 | 8,0 | 8,0 | 8,0 | 8,0 | 7,5 | 1,001 | | | | | | | |
| | | 7 | 60 | 53 18,5 | 7,0 | 7,0 | 7,0 | 7,5 | 6,4 | 1,001 | | | | | | | |
| | | 8 | 70 | 54 36,0 | 6,5 | 6,5 | 6,5 | 6,7 | 5,8 | 1,001 | | | | | | | |
| | | 9 | 80 | 55 53,5 | 6,0 | 6,0 | 6,0 | 6,2 | 5,4 | 1,001 | | | | | | | |
| | | 10 | 90 | 57 11,0 | 5,5 | 5,5 | 5,5 | 5,7 | 4,9 | 1,001 | | | | | | | |
| | | 11 | 100 | 58 29,0 | 5,0 | 5,0 | 5,0 | 5,2 | 4,5 | 1,001 | 10,015 | 12'57",0 | 775°,8 | | | | |
| | | 12 | 110 | 59 46,8 | 4,5 | 4,5 | 4,5 | 4,7 | 4,0 | 1,000 | 10,012 | 12 56,8 | 775°,9 | | | | |
| | | 13 | 120 | 8 1 4,0 | 4,0 | 4,0 | 4,0 | 4,2 | 3,6 | 1,000 | 10,010 | 12 56,5 | 775°,7 | | | | |
| | | 14 | 130 | 2 21,0 | 4,5 | 4,5 | 4,5 | 4,2 | 3,6 | 1,000 | 10,008 | 12 56,0 | 775°,4 | | | | |
| | | 15 | 140 | 3 39,0 | 3,7 | 3,7 | 3,7 | 4,1 | 3,5 | 1,000 | 10,006 | 12 56,0 | 775°,5 | | | | |
| | | 16 | 150 | 4 57,0 | 3,3 | 3,3 | 3,3 | 3,5 | 3,0 | 1,000 | 10,005 | 12 56,0 | 775°,6 | | | | |
| | | 17 | 160 | 6 14,5 | 3,0 | 3,0 | 3,0 | 3,2 | 2,8 | 1,000 | 10,004 | 12 56,0 | 775°,7 | | | | |
| | | 18 | 170 | 7 32,5 | 2,5 | 2,5 | 2,5 | 2,7 | 2,3 | 1,000 | 10,003 | 12 56,5 | 776°,3 | | | | |
| | | 19 | 180 | 8 50,0 | 2,0 | 2,0 | 2,0 | 2,2 | 1,9 | 1,000 | 10,002 | 12 56,5 | 776°,3 | | | | |
| | | 20 | 190 | 10 7,5 | 2,0 | 2,0 | 2,0 | 2,0 | 1,7 | 1,000 | 10,001 | 12 56,5 | 776°,4 | | | | |
| | | | | | | | | | | | 775,9 | | | | | | |
| Lm. Ld. | Décem. 24, à 8° 00' matin. | 1 | 0 | 11 40 7,0 | 16,5 | 16,0 | 16,2 | 14,3 | 12,1 | 1,003 | | | | Température = 24°,1. Aiguille n ^o 8. | | | |
| | | 2 | 10 | 41 24,0 | 12,0 | 13,0 | 12,5 | | | | | | | | | | |
| | | 3 | 20 | 42 41,0 | 11,0 | 10,6 | 10,8 | 11,6 | 9,9 | 1,002 | | | | | | | |
| | | 4 | 30 | 43 58,0 | 8,0 | 9,0 | 8,5 | 9,6 | 8,2 | 1,001 | | | | | | | |
| | | 5 | 40 | 45 15,0 | 7,5 | 8,0 | 7,7 | 8,1 | 7,0 | 1,001 | | | | | | | |
| | | 6 | 50 | 46 31,5 | 6,0 | 6,5 | 6,2 | 6,9 | 5,9 | 1,001 | | | | | | | |
| | | 7 | 60 | 47 48,0 | 6,0 | 5,5 | 5,7 | 5,9 | 5,0 | 1,001 | | | | | | | |
| | | 8 | 70 | 49 5,0 | 4,8 | 4,5 | 4,6 | 5,1 | 4,4 | 1,000 | | | | | | | |
| | | 9 | 80 | 50 21,0 | 4,0 | 3,7 | 3,8 | 4,2 | 3,6 | 1,000 | | | | | | | |
| | | 10 | 90 | 51 38,2 | 3,2 | 3,0 | 3,1 | 3,4 | 2,9 | 1,000 | | | | | | | |
| | | 11 | 100 | 52 54,5 | 3,0 | 2,8 | 2,9 | 3,0 | 2,6 | 1,000 | 10,009 | 12 47,5 | 766°,8 | | | | |
| | | 12 | 110 | 54 11,5 | 2,8 | 2,5 | 2,6 | 2,7 | 2,3 | 1,000 | 10,006 | 12 47,5 | 767°,0 | | | | |
| | | 13 | 120 | 55 28,0 | 2,5 | 2,2 | 2,3 | 2,4 | 2,0 | 1,000 | 10,004 | 12 47,0 | 766°,7 | | | | |
| | | 14 | 130 | 56 44,5 | 2,0 | 2,0 | 2,0 | 2,1 | 1,8 | 1,000 | 10,003 | 12 46,5 | 766°,3 | | | | |
| | | | | | | | | | | | 766°,7 | | | | | | |
| Lm. Lb. | Décem. 24, à 8° 50' matin. | 1 | 0 | 0 34 11,0 | 22,0 | 22,0 | 22,0 | | | | | | | | Température = 26°,2. | | |
| | | 2 | 10 | 35 28,5 | 18,5 | 18,9 | 18,7 | 20,3 | 16,9 | 1,005 | | | | | | | |
| | | 3 | 20 | 36 46,0 | 16,0 | 15,5 | 15,7 | 17,2 | 14,6 | 1,004 | | | | | | | |
| | | 4 | 30 | 38 2,5 | 13,0 | 13,0 | 13,0 | 14,3 | 12,1 | 1,003 | | | | | | | |
| | | 5 | 40 | 39 20,0 | 11,5 | 11,2 | 11,3 | 12,1 | 10,3 | 1,002 | | | | | | | |
| | | 6 | 50 | 40 37,0 | 9,8 | 9,5 | 9,6 | 10,4 | 8,9 | 1,002 | | | | | | | |
| | | 7 | 60 | 41 53,5 | 8,5 | 8,2 | 8,3 | 8,9 | 7,6 | 1,001 | | | | | | | |
| | | 8 | 70 | 43 10,5 | 7,0 | 6,5 | 6,7 | 7,5 | 6,4 | 1,001 | | | | | | | |
| | | 9 | 80 | 44 27,5 | 5,6 | 5,3 | 5,4 | 6,0 | 5,2 | 1,001 | | | | | | | |
| | | 10 | 90 | 45 44,0 | 5,0 | 5,0 | 5,0 | 5,2 | 4,5 | 1,000 | | | | | | | |
| | | 11 | 100 | 47 1,0 | 4,0 | 4,0 | 4,0 | 4,5 | 3,8 | 1,000 | 10,019 | 12 50,0 | 768°,5 | | | | |
| | | 12 | 110 | 48 18,0 | 3,2 | 3,2 | 3,2 | 3,6 | 3,1 | 1,000 | 10,014 | 12 49,5 | 768°,4 | | | | |
| | | 13 | 120 | 49 34,5 | 2,9 | 2,9 | 2,9 | 3,0 | 2,6 | 1,000 | 10,010 | 12 48,5 | 767°,7 | | | | |
| | | 14 | 130 | 50 51,0 | 2,8 | 2,8 | 2,8 | 2,8 | 2,3 | 1,000 | 10,007 | 12 48,5 | 768°,0 | | | | |
| | | 15 | 140 | 52 8,0 | 2,5 | 2,6 | 2,5 | 2,6 | 2,2 | 1,000 | 10,005 | 12 48,0 | 767°,6 | | | | |
| | | 16 | 150 | 53 26,0 | 2,4 | 2,5 | 2,4 | 2,4 | 2,0 | 1,000 | 10,003 | 12 49,0 | 768°,8 | | | | |
| | | 17 | 160 | 54 42,0 | 2,4 | 2,3 | 2,3 | 2,3 | 1,9 | 1,000 | 10,002 | 12 48,5 | 768°,3 | | | | |
| | | 18 | 170 | 55 59,0 | 2,3 | 2,0 | 2,1 | 2,2 | 1,0 | 1,000 | 10,001 | 12 48,5 | 768°,4 | | | | |
| | | | | | | | | | | | 768°,2 | | | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | NOMBRE D'ONDES oscillations. | HEURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 8 ET 9. | | | | | | | | REMARQUES. | |
|---------------|--|--|---|--|--|--|--|---|---|--|--|---|---|
| | | | | AMPLITUDES. | | | | | | CORREC- | SOMME des corrections pour cent oscillat. | DURÉE de cent oscillations réelles. | |
| | | | | En parties | | | Moyenne-moyenne | | | | | | |
| Lm. Ld. | 1817. Décam. 24, à 9 ^h 30' matin. | 1 0 2 10 3 20 4 30 5 40 6 50 7 60 8 70 9 80 10 90 11 100 12 110 13 120 14 130 | 1 ^h 8' 51",0 10 8,5 11 26,0 12 42,5 13 59,5 15 16,0 16 33,0 17 49,7 19 6,5 20 23,5 21 40,0 22 56,0 24 13,0 25 29,8 | 20 ^h ,8 16,8 14,0 12,0 10,0 8,5 7,8 6,2 5,0 4,8 3,8 3,2 2,7 2,3 | 21 ^h ,0 17,2 14,2 12,3 10,0 8,8 8,0 6,3 5,3 4,8 3,9 3,2 2,7 2,3 | 20 ^h ,9 15 ^h ,8 14,1 12,1 10,0 8,6 7,9 6,2 5,1 4,8 3,8 3,5 2,9 2,5 | 18 ^h ,9 15,5 13,1 13,1 11,0 9,3 8,2 7,0 5,6 4,9 4,3 3,5 2,9 2,5 | 15 ^h ,8 13,1 11,2 9,4 7,9 7,1 6,0 4,8 4,1 3,6 3,0 2,4 2,1 | 1,005 1,003 1,002 1,002 1,001 1,001 1,001 1,001 1,001 1,000 1,000 1,000 1,000 1,000 | 10,016 10,011 10,008 10,006 | 12'49",0 12 47,5 12 47,0 12 47,3 | 767",8 766",7 766",4 766",8 | Température = 28 ⁴ ,8. Aiguille n° 8. |
| | | | | 766,9 | | | | | | | | | |
| | | | | | | | | | | | | | |
| Frey. Dp. | Décem. 28, à midi. | 3 14 4,0 2 10 14 44,3 3 20 15 24,6 4 30 16 5,0 3 40 16 45,3 6 50 17 25,6 7 60 18 6,0 8 70 18 46,0 9 80 19 20,3 10 90 20 7,0 11 100 20 47,3 12 110 21 27,3 13 120 22 7,6 14 130 22 48,0 15 140 23 27,3 | 3 14 4,0 14 44,3 15 24,6 16 5,0 16 45,3 17 25,6 18 6,0 18 46,0 19 20,3 20 7,0 20 47,3 21 27,3 22 7,6 22 48,0 23 27,3 | 15,5 13,5 13,5 10,0 9,0 8,0 7,0 5,8 5,2 4,5 4,0 3,5 3,5 3,2 2,8 | 15,5 13,5 12,0 10,0 9,0 7,8 6,5 5,0 4,7 3,8 3,5 3,0 3,0 2,8 2,0 | 15,5 13,5 12,0 10,0 9,0 7,9 6,7 5,4 4,9 4,1 3,7 3,4 3,2 2,5 2,2 | 14,5 12,7 11,0 9,5 8,4 7,3 6,2 5,2 5,2 4,5 3,9 3,4 3,0 2,7 2,4 | 12,3 10,8 9,4 8,1 7,2 6,2 5,2 4,5 3,8 3,3 3,3 2,9 2,6 2,3 2,0 | 1,003 1,002 1,002 1,001 1,001 1,001 1,001 1,001 1,000 1,000 1,000 1,000 1,000 1,000 1,000 | 10,010 10,008 10,006 10,004 10,003 | 6 43,3 6 43,0 6 43,0 6 43,0 6 42,0 | 402,9 402,7 402,8 402,8 401,9 | Température = 26 ⁴ ,3. Aiguille n° 9. |
| | | | | 402,6 | | | | | | | | | |
| | | | | | | | | | | | | | |
| Frey. Dp. | Décem. 28, à midi. | 1 0 3 38 3,0 2 10 38 43,3 3 20 39 24,0 4 30 40 4,6 5 40 40 45,0 6 50 41 25,0 7 60 42 5,6 8 70 42 45,3 9 80 43 25,8 10 90 44 6,0 11 100 44 46,3 12 110 45 26,6 13 120 46 6,6 14 130 46 46,3 15 140 47 27,3 16 150 48 7,0 17 160 48 47,3 18 170 49 27,9 19 180 50 7,6 20 190 50 48,0 21 200 51 28,0 22 210 52 8,0 23 220 52 48,3 | 3 38 3,0 38 43,3 39 24,0 40 4,6 40 45,0 41 25,0 42 5,6 42 45,3 43 25,8 44 6,0 44 46,3 45 26,6 46 6,6 46 46,3 47 27,3 48 7,0 48 47,3 49 27,9 50 7,6 50 48,0 51 28,0 52 8,0 52 48,3 | 20,0 18,0 16,0 14,0 12,5 11,0 9,5 8,2 7,3 6,7 5,7 5,2 4,5 3,7 3,0 2,9 2,7 2,5 2,4 3,0 2,2 1,8 | 20,7 19,0 17,0 15,0 13,5 12,0 10,5 9,2 8,3 7,7 6,7 6,2 5,7 5,1 4,8 4,0 3,5 3,0 2,9 2,5 2,3 | 20,3 18,5 16,5 14,5 13,0 11,5 10,0 8,7 7,8 7,2 6,2 6,2 5,7 5,4 4,3 4,0 3,5 3,2 2,9 2,6 2,4 | 19,4 17,5 15,5 13,0 13,7 12,2 10,7 9,3 8,2 7,5 6,7 6,2 5,0 5,4 4,7 4,1 3,7 3,2 2,9 2,6 2,4 | 16,2 14,8 13,1 11,7 10,4 9,2 8,2 7,9 7,1 6,4 5,8 5,0 4,6 4,0 3,5 3,0 2,9 2,6 2,3 2,0 | 1,005 1,004 1,003 1,003 1,002 1,002 1,001 1,001 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 | 10,023 10,019 10,016 10,013 10,010 10,008 10,006 10,005 10,004 10,003 | 6 43,3 6 43,3 6 42,6 6 41,7 6 42,3 6 42,0 6 41,7 6 42,6 6 41,8 6 42,0 6 41,7 6 41,5 6 41,7 6 41,4 6 41,7 | 402,4 402,5 402,0 401,2 401,9 401,7 401,5 402,4 401,6 401,9 401,7 401,5 401,7 401,4 401,7 | Température = 24 ⁴ ,3. Aiguille n° 9. |
| | | | | 401,8 | | | | | | | | | |
| | | | | | | | | | | | | | |

S IV. — A Cape-Town (Cap de Bonne-Espérance).

| OBSERVATION. | DATES et HEURES. | NOMBRE d'oscillations. | REURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 ET 8. | | | | | | | | REMARQUES. | |
|---|------------------------|---------------------------|-----------------------------|--|--------------------|--------------------|--------------------|---|--|-------------------------------|---------------|-----------------------|--|
| | | | | AMPLITUDE. | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | |
| | | | | En parties | | Moyenne-moyenne | | | | en parties. | en degrés. | réelles. (Moyenne) | |
| Frey. Lc. Dp. à 1 ^h 0' soir. | 1818. | 1 0 | 0 ^h 23' 29",0 | 22 ^o ,0 | 22 ^o ,5 | 22 ^o ,2 | | | | | | | Le vent étant très-fort, nous avons été obligés de faire cette expérience dans une salle au premier étage de la maison de M. Delettre. Température = 22 ^o ,3 Aiguille n° 7. |
| | Mars | 2 10 | 25 2,3 | 20,5 | 20,7 | 20,6 | 21 ^o ,4 | 17 ^o ,8 | 1,006 | | | | |
| | 23, | 3 20 | 26 36,2 | 18,5 | 18,7 | 18,6 | 19,6 | 16,4 | 1,005 | | | | |
| | | 4 30 | 28 10,1 | 16,6 | 16,9 | 16,7 | 17,6 | 14,9 | 1,004 | | | | |
| | | 5 40 | 29 42,0 | 15,5 | 15,6 | 15,5 | 16,1 | 13,6 | 1,004 | | | | |
| | | 6 50 | 31 16,4 | 14,2 | 14,3 | 14,2 | 14,8 | 12,5 | 1,002 | | | | |
| | | 7 60 | 32 49,4 | 12,7 | 12,8 | 12,7 | 13,4 | 11,4 | 1,002 | | | | |
| | | 8 70 | 34 22,5 | 12,0 | 12,0 | 12,0 | 12,3 | 10,4 | 1,002 | | | | |
| | | 9 80 | 35 55,5 | 11,0 | 11,0 | 11,0 | 11,5 | 9,8 | 1,002 | | | | |
| | | 10 90 | 37 29,0 | 10,3 | 10,3 | 10,3 | 10,6 | 9,1 | 1,002 | | | | |
| | | 11 100 | 39 2,5 | 9,5 | 9,4 | 9,4 | 9,8 | 8,3 | 1,002 | 10,031 | 15'33",5 | 930",6 | |
| | | 12 110 | 40 35,6 | 8,7 | 8,5 | 8,6 | 9,0 | 7,7 | 1,001 | 10,026 | 15 33,3 | 930,9 | |
| | | 13 120 | 42 8,6 | 8,0 | 7,8 | 7,9 | 8,2 | 7,1 | 1,001 | 10,022 | 15 32,4 | 930,3 | |
| | | 14 130 | 43 41,7 | 7,5 | 7,2 | 7,3 | 7,6 | 6,5 | 1,001 | 10,019 | 15 31,8 | 929,8 | |
| | | 15 140 | 45 15,0 | 7,0 | 6,8 | 6,9 | 7,1 | 6,1 | 1,001 | 10,016 | 15 33,0 | 931,5 | |
| | | 16 150 | 46 48,0 | 6,5 | 6,3 | 6,4 | 6,6 | 5,7 | 1,001 | 10,015 | 15 31,6 | 930,2 | |
| | | 17 160 | 48 21,0 | 5,9 | 5,7 | 5,8 | 6,1 | 5,3 | 1,001 | 10,014 | 15 31,6 | 930,3 | |
| | | 18 170 | 49 54,0 | 5,5 | 5,3 | 5,4 | 5,6 | 4,8 | 1,001 | 10,013 | 15 31,5 | 930,3 | |
| | | 19 180 | 51 27,0 | 5,0 | 4,8 | 5,9 | 5,1 | 4,4 | 1,000 | 10,011 | 15 31,5 | 930,5 | |
| | | 20 190 | 53 0,5 | 4,8 | 4,5 | 4,6 | 4,7 | 4,0 | 1,000 | 10,009 | 15 31,5 | 930,7 | |
| | | 21 200 | 54 33,0 | 4,5 | 4,2 | 4,3 | 4,4 | 3,7 | 1,000 | 10,007 | 15 30,5 | 930,8 | |
| | | 22 210 | 56 6,3 | 4,2 | 3,9 | 4,0 | 4,1 | 3,5 | 1,000 | 10,006 | 15 30,7 | 930,1 | |
| | | 23 220 | 57 40,0 | 3,9 | 3,7 | 3,8 | 3,9 | 3,3 | 1,000 | 10,005 | 15 31,4 | 930,9 | |
| | | 24 230 | 59 12,4 | 3,7 | 3,4 | 3,5 | 3,6 | 3,1 | 1,000 | 10,004 | 15 30,7 | 930,3 | |
| | | 25 240 | 1 0 45,5 | 3,4 | 3,2 | 3,3 | 3,4 | 2,9 | 1,000 | 10,003 | 15 30,5 | 930,2 | |
| | | 26 250 | 2 18,4 | 3,2 | 3,0 | 3,1 | 3,2 | 2,8 | 1,000 | 10,002 | 15 30,4 | 930,3 | |
| | | 27 260 | 3 52,0 | 3,0 | 2,7 | 2,8 | 2,9 | 2,4 | 1,000 | 10,001 | 15 31,0 | 930,9 | |
| | | 28 270 | 5 24,5 | 2,8 | 2,6 | 2,7 | 2,7 | 2,3 | 1,000 | 10,000 | 15 30,4 | 930,4 | |
| | | 29 280 | 6 57,0 | 2,6 | 2,4 | 2,5 | 2,6 | 2,2 | 1,000 | 10,000 | 15 30,0 | 931,0 | |
| | | 30 290 | 8 31,0 | 2,5 | 2,2 | 2,3 | 2,4 | 2,0 | 1,000 | 10,000 | 15 30,5 | 930,5 | |
| Frey. Lc. Dp. à 3 ^h 0' soir. | Mars | 1 0 | 2 33 13,0 | 22,0 | 21,8 | 21,9 | | | | 930,4 | | | Observation faite, comme la précédente, dans la salle du premier étage de la maison de M. Delettre. Température = 22 ^o ,2. Aiguille n° 8. |
| | | 2 10 | 34 46,5 | 20,0 | 19,8 | 19,9 | 20,9 | 17,4 | 1,006 | | | | |
| | | 3 20 | 36 20,0 | 18,0 | 17,6 | 17,8 | 18,8 | 15,7 | 1,005 | | | | |
| | | 4 30 | 37 53,5 | 16,8 | 16,6 | 16,7 | 17,2 | 14,6 | 1,004 | | | | |
| | | 5 40 | 39 26,7 | 15,2 | 15,0 | 15,1 | 15,9 | 13,4 | 1,003 | | | | |
| | | 6 50 | 41 00,0 | 14,0 | 13,0 | 13,5 | 14,3 | 12,1 | 1,003 | | | | |
| | | 7 60 | 42 33,3 | 13,0 | 12,8 | 12,9 | 13,2 | 11,3 | 1,002 | | | | |
| | | 8 70 | 44 6,7 | 11,8 | 11,6 | 11,7 | 12,3 | 10,4 | 1,002 | | | | |
| | | 9 80 | 45 39,9 | 11,1 | 11,0 | 11,0 | 11,3 | 9,6 | 1,002 | | | | |
| | | 10 90 | 47 13,0 | 10,0 | 9,8 | 9,9 | 10,4 | 8,9 | 1,002 | | | | |
| | | 11 100 | 48 46,3 | 9,3 | 9,1 | 9,2 | 9,5 | 8,1 | 1,001 | 10,030 | 15 33,3 | 930,5 | |
| | | 12 110 | 50 19,5 | 8,8 | 8,6 | 8,7 | 8,9 | 7,6 | 1,001 | 10,025 | 15 33,0 | 930,7 | |
| | | 13 120 | 51 52,5 | 8,2 | 8,0 | 8,1 | 8,4 | 7,2 | 1,001 | 10,021 | 15 32,5 | 930,5 | |
| | | 14 130 | 53 25,6 | 7,6 | 7,5 | 7,5 | 7,8 | 6,7 | 1,001 | 10,018 | 15 32,1 | 930,4 | |
| | | 15 140 | 54 58,9 | 7,0 | 6,9 | 6,9 | 7,2 | 6,2 | 1,001 | 10,016 | 15 32,2 | 930,5 | |
| | | 16 150 | 56 31,5 | 6,6 | 6,5 | 6,5 | 6,7 | 5,8 | 1,001 | 10,014 | 15 31,5 | 930,2 | |
| | | 17 160 | 58 5,8 | 6,2 | 6,0 | 6,1 | 6,3 | 5,4 | 1,001 | 10,013 | 15 31,5 | 930,3 | |
| | | 18 170 | 59 37,6 | 5,8 | 5,6 | 5,7 | 5,9 | 5,0 | 1,001 | 10,012 | 15 30,9 | 929,8 | |
| | | 19 180 | 3 1 11,0 | 5,3 | 5,0 | 5,1 | 5,4 | 4,6 | 1,001 | 10,011 | 15 31,1 | 930,1 | |
| | | 20 190 | 2 44,0 | 5,0 | 4,6 | 4,8 | 4,9 | 4,1 | 1,000 | 10,009 | 15 31,0 | 930,2 | |
| | | 21 200 | 4 17,0 | 4,8 | 4,5 | 4,6 | 4,7 | 4,0 | 1,000 | 10,008 | 15 30,7 | 930,0 | |
| | | 22 210 | 5 50,0 | 4,5 | 4,1 | 4,3 | 4,4 | 3,7 | 1,000 | 10,007 | 15 30,5 | 929,8 | |
| | | 23 220 | 7 23,0 | 4,1 | 3,8 | 3,9 | 4,1 | 3,5 | 1,000 | 10,006 | 15 30,5 | 929,9 | |
| | | 24 230 | 8 56,0 | 3,8 | 3,6 | 3,7 | 3,8 | 3,2 | 1,000 | 10,005 | 15 30,4 | 929,9 | |
| | | 25 240 | 10 29,0 | 3,6 | 3,5 | 3,5 | 3,6 | 3,1 | 1,000 | 10,004 | 15 30,1 | 929,7 | |
| | | 26 250 | 12 2,1 | 3,4 | 3,2 | 3,3 | 3,4 | 2,9 | 1,000 | 10,003 | 15 30,6 | 930,3 | |
| | | 27 260 | 13 35,0 | 3,2 | 3,0 | 3,1 | 3,2 | 2,8 | 1,000 | 10,002 | 15 30,2 | 930,0 | |
| | | 28 270 | 15 8,0 | 3,0 | 2,8 | 2,9 | 3,0 | 2,6 | 1,000 | 10,001 | 15 30,4 | 930,3 | |
| | | 29 280 | 16 41,1 | 2,8 | 2,6 | 2,7 | 2,8 | 2,3 | 1,000 | 10,000 | 15 30,1 | 930,0 | |
| | | 30 290 | 18 14,2 | 2,6 | 2,4 | 2,5 | 2,6 | 2,2 | 1,000 | 10,000 | 15 30,2 | 930,2 | |
| | | 31 300 | 19 47,0 | 2,4 | 2,2 | 2,3 | 2,4 | 2,0 | 1,000 | 10,000 | 15 30,0 | 930,0 | |
| | | | | | | | | | | 930,2 | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | NUMÉROS D'ORDRE. OSCILLATIONS. | HEURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | REMARQUES. |
|--|---|-----------------------------------|-----------------------------|--|--------------------|--------------------|--------------------|--|--|-------------------------------|---------------|------------|
| | | | | AMPLITUDES. | | | Moyenne-moyenne | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | |
| | | | | En parties | à gauche. | à droite. | | | | en parties. | en degrés. | réelles. | infinim. petites. (Moyennes) |
| Frey. B. P. | 1818. B. Mars 26, à 7 ^h 0 ^m matin. | 1 0 | 8 ^h 25' 54",0 | 17 ^p ,7 | 17 ^p ,4 | 17 ^p ,5 | 16 ^p ,5 | 22 ^o ,8 | 1,010 | 10,052 | 7'58",3 | 475,8 |
| | | 2 10 | 26 41,9 | 15,7 | 15,4 | 15,5 | | | | | | |
| | | 3 29 | 27 30,0 | 14,2 | 13,9 | 14,0 | | | | | | |
| | | 4 30 | 28 18,0 | 13,0 | 13,4 | 13,2 | | | | | | |
| | | 5 40 | 29 6,0 | 12,0 | 12,3 | 12,1 | | | | | | |
| | | 6 50 | 29 53,5 | 11,2 | 11,0 | 11,1 | | | | | | |
| | | 7 60 | 30 41,3 | 10,3 | 10,0 | 10,1 | | | | | | |
| | | 8 70 | 31 29,0 | 9,4 | 9,2 | 9,3 | | | | | | |
| | | 9 80 | 32 16,5 | 8,8 | 8,7 | 8,7 | | | | | | |
| | | 10 90 | 33 4,5 | 7,9 | 7,8 | 7,8 | | | | | | |
| | | 11 100 | 33 52,3 | 7,5 | 7,3 | 7,4 | | | | | | |
| | | 12 110 | 34 40,0 | 7,0 | 6,8 | 6,9 | | | | | | |
| | | 13 120 | 35 27,5 | 6,6 | 6,4 | 6,5 | | | | | | |
| | | 14 130 | 36 15,5 | 6,0 | 5,8 | 5,9 | | | | | | |
| | | 15 140 | 37 2,5 | 5,8 | 5,6 | 5,7 | | | | | | |
| | | 16 150 | 37 50,5 | 5,4 | 5,2 | 5,3 | | | | | | |
| | | 17 160 | 38 38,5 | 4,9 | 4,7 | 4,8 | | | | | | |
| | | 18 170 | 39 26,0 | 4,7 | 4,5 | 4,6 | | | | | | |
| | | 19 180 | 40 13,5 | 4,5 | 4,3 | 4,4 | | | | | | |
| | | 20 190 | 41 1,0 | 4,2 | 4,0 | 4,1 | | | | | | |
| | | 21 200 | 41 49,0 | 3,8 | 3,6 | 3,7 | | | | | | |
| | | 22 210 | 42 36,5 | 3,6 | 3,4 | 3,5 | | | | | | |
| | | 23 220 | 43 24,0 | 3,4 | 3,2 | 3,3 | | | | | | |
| | | 24 230 | 44 11,0 | 3,2 | 3,0 | 3,1 | | | | | | |
| | | 25 240 | 44 59,0 | 2,9 | 2,8 | 2,9 | | | | | | |
| | | 26 250 | 45 46,5 | 2,8 | 2,7 | 2,7 | | | | | | |
| | | 27 260 | 46 34,5 | 2,7 | 2,6 | 2,5 | | | | | | |
| | | 28 270 | 47 22,0 | 2,6 | 2,5 | 2,5 | | | | | | |
| | | 29 280 | 48 9,0 | 2,4 | 2,3 | 2,4 | | | | | | |
| | | 30 290 | 48 57,0 | 2,3 | 2,2 | 2,2 | | | | | | |
| | | 31 300 | 49 44,5 | 2,2 | 2,1 | 2,1 | | | | | | |
| | | 32 310 | 50 32,5 | 2,1 | 2,0 | 2,0 | | | | | | |
| Dp. B. | Mars 31. à 8 ^h 30' matin. | 1 0 | 7 42 22,0 | 19,0 | 19,0 | 19,0 | 17,8 | 24,3 | 1,011 | 10,053 | 8 0,0 | 477,5 |
| | | 2 10 | 43 10,0 | 16,8 | 16,7 | 16,7 | | | | | | |
| | | 3 20 | 43 57,5 | 15,0 | 15,0 | 15,0 | | | | | | |
| | | 4 30 | 44 46,0 | 13,0 | 13,0 | 13,0 | | | | | | |
| | | 5 40 | 45 34,0 | 12,0 | 12,0 | 12,0 | | | | | | |
| | | 6 50 | 46 22,0 | 10,5 | 10,6 | 10,5 | | | | | | |
| | | 7 60 | 47 10,0 | 9,2 | 9,2 | 9,2 | | | | | | |
| | | 8 70 | 47 58,0 | 8,5 | 8,4 | 8,4 | | | | | | |
| | | 9 80 | 48 46,0 | 8,3 | 8,2 | 8,2 | | | | | | |
| | | 10 90 | 49 34,0 | 7,0 | 7,0 | 7,0 | | | | | | |
| | | 11 100 | 50 22,0 | 6,0 | 6,0 | 6,0 | | | | | | |
| | | 12 110 | 51 10,0 | 5,0 | 5,0 | 5,0 | | | | | | |
| | | 13 120 | 51 58,0 | 4,3 | 4,2 | 4,2 | | | | | | |
| | | 14 130 | 52 45,0 | 3,7 | 3,6 | 3,6 | | | | | | |
| | | 15 140 | 53 33,0 | 3,3 | 3,2 | 3,2 | | | | | | |
| | | 16 150 | 54 21,0 | 3,0 | 3,0 | 3,0 | | | | | | |
| | | 17 160 | 55 9,0 | 2,8 | 2,8 | 2,8 | | | | | | |
| | | 18 170 | 55 56,0 | 2,7 | 2,7 | 2,7 | | | | | | |
| | | 19 180 | 56 44,0 | 2,5 | 2,4 | 2,4 | | | | | | |
| | | 20 190 | 57 32,0 | 2,4 | 2,3 | 2,3 | | | | | | |
| | | 21 200 | 58 20,0 | 2,3 | 2,2 | 2,2 | | | | | | |
| | | 22 210 | 59 8,0 | 2,1 | 2,0 | 2,0 | | | | | | |
| Observation faite dans la salle du premier étage de la maison de M. Delettre. Température = 22°,2. | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Observation faite sur la terrasse de notre observatoire. Température = 23°. | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 475,7 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 477,9 | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| OBSERVATIONS. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 8. | | | | | | | | | | | | REMARQUES. | |
|---------------|--|--|---------------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--|--|--------------------------------|---------------|----------|------------------------------------|--|
| | | MINUTES D'ORGE. | OSCILLATIONS. | HEURE du chronomètre. | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | STADES de cent oscillations | | | | |
| | | | | | En parties | | Moyenne-moyenne | | | | en parties. | en degrés. | réelles. | infinim. petites. (Moyennes) | |
| Dp. B. | 1818. | 1 0 | 10 ^h 38' 59",0 | 21 ^h ,0 | 21 ^h ,0 | 21 ^h ,0 | | | | | | | | | Observation faite sur la terrasse de notre observatoire. Température = 27°. |
| | Mars 31, à 11 ^h 30' matin. | 2 10 | 40 32,0 | 18,5 | 18,5 | 18,5 | 19 ^o ,7 | 16 ^o ,5 | 1,005 | | | | | | |
| | | 3 20 | 42 7,0 | 16,0 | 16,0 | 16,0 | 17,2 | 14,6 | 1,004 | | | | | | |
| | | 4 30 | 43 41,0 | 14,0 | 14,0 | 14,0 | 15,0 | 12,7 | 1,003 | | | | | | |
| | | 5 40 | 45 15,0 | 12,0 | 12,0 | 12,0 | 13,0 | 11,1 | 1,002 | | | | | | |
| | | 6 50 | 46 49,0 | 9,0 | 9,0 | 9,0 | 10,5 | 9,0 | 1,002 | | | | | | |
| | | 7 60 | 48 22,0 | 7,6 | 7,7 | 7,6 | 8,3 | 7,1 | 1,001 | | | | | | |
| | | 8 70 | 49 56,0 | 6,7 | 6,8 | 6,7 | 7,1 | 6,1 | 1,001 | | | | | | |
| | | 9 80 | 51 30,0 | 5,9 | 6,0 | 5,9 | 6,3 | 5,4 | 1,001 | | | | | | |
| | | 10 90 | 53 05,0 | 5,0 | 5,0 | 5,0 | 5,4 | 4,6 | 1,001 | | | | | | |
| | | 11 100 | 54 37,0 | 4,1 | 4,2 | 4,1 | 4,5 | 3,8 | 1,000 | 10,020 | 15'38",0 | 936",1 | | | |
| | | 12 110 | 56 11,0 | 3,5 | 3,5 | 3,5 | 3,8 | 3,2 | 1,000 | 10,015 | 15 39,0 | 937 ,0 | | | |
| | | 13 120 | 57 45,0 | 3,0 | 3,0 | 3,0 | 3,2 | 2,8 | 1,000 | 10,011 | 15 38,0 | 937 ,0 | | | |
| | | 14 130 | 59 19,0 | 2,8 | 2,8 | 2,8 | 2,9 | 2,4 | 1,000 | 10,008 | 15 38,0 | 937 ,2 | | | |
| | | 15 140 | 0 52,0 | 2,6 | 2,6 | 2,6 | 2,7 | 2,3 | 1,000 | 10,006 | 15 37,0 | 936 ,4 | | | |
| | | 16 150 | 2 26,0 | 2,4 | 2,4 | 2,4 | 2,5 | 2,1 | 1,000 | 10,004 | 15 37,0 | 936 ,6 | | | |
| | | 17 160 | 4 0,0 | 2,2 | 2,2 | 2,2 | 2,3 | 1,9 | 1,000 | 10,003 | 15 38,0 | 937 ,7 | | | |
| | | 18 170 | 5 34,0 | 2,0 | 2,0 | 2,0 | 2,1 | 1,8 | 1,000 | 10,002 | 15 38,0 | 937 ,8 | | | |
| | | | | | | | | | | | | | | | 937 ,0 |

VOYAGE AUTOUR DU MONDE.

S V. — *Port-Louis (Ile-de-France)*.

INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9.

| OBSERVATEUR. | DATES et HEURES. | NUMÉRO d'ORDRE. | HEURE du chronomètre. | AMPLITUDES. | | | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | REMARQUES. | | | | | |
|-----------------|--|--------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|---|--|-------------------------------|------------|--|--|--|--|--|
| | | | | En parties | | | Moyenne-moyenne | | | | | | | | | | | |
| | | | | à gauche. | à droite. | Moyenn. | en parties. | en degrés. | | | | | | | | | | |
| G. R. B. | 1818. Juin 22, à 3 ^h soir. | 1 0 | 11 ^h 26' 51",5 | 16 ^h ,1 | 16 ^h ,5 | 16 ^h ,3 | | | | | | | | Température = 28 ⁴ ,5. | | | | |
| | | 2 10 | 27 38,5 | 14,6 | 15,0 | 14,8 | 15 ^h ,5 | 21 ^h ,5 | 1,009 | | | | | | | | | |
| | | 3 20 | 28 25,7 | 13,4 | 13,8 | 13,6 | 14,2 | 19,8 | 1,008 | | | | | | | | | |
| | | 4 30 | 29 12,8 | 12,3 | 12,7 | 12,5 | 13,0 | 18,3 | 1,006 | | | | | | | | | |
| | | 5 40 | 29 59,9 | 11,1 | 11,4 | 11,2 | 11,8 | 16,6 | 1,006 | | | | | | | | | |
| | | 6 50 | 30 46,7 | 10,3 | 10,6 | 10,4 | 10,8 | 15,2 | 1,004 | | | | | | | | | |
| | | 7 60 | 31 34,5 | 9,4 | 9,7 | 9,5 | 9,9 | 14,1 | 1,004 | | | | | | | | | |
| | | 8 70 | 32 20,5 | 8,5 | 8,8 | 8,6 | 9,0 | 12,9 | 1,003 | | | | | | | | | |
| | | 9 80 | 33 7,5 | 7,4 | 7,8 | 7,6 | 8,1 | 11,6 | 1,053 | | | | | | | | | |
| | | 10 90 | 33 54,5 | 7,0 | 7,4 | 7,2 | 7,4 | 10,6 | 1,002 | | | | | | | | | |
| | | 11 100 | 34 41,3 | 6,4 | 6,7 | 6,5 | 6,8 | 9,7 | 1,002 | 10,047 | 7' 40",8 | 467",6 | | | | | | |
| | | 12 110 | 35 28,0 | 5,8 | 6,2 | 6,0 | 6,8 | 8,9 | 1,002 | 10,040 | 7 49,5 | 467,6 | | | | | | |
| | | 13 120 | 36 15,0 | 5,3 | 5,9 | 5,6 | 5,8 | 8,2 | 1,001 | 10,033 | 7 49,3 | 467,7 | | | | | | |
| | | 14 130 | 37 1,8 | 5,0 | 5,5 | 5,3 | 5,4 | 7,7 | 1,001 | 10,028 | 7 49,0 | 467,7 | | | | | | |
| | | 15 140 | 37 48,5 | 4,6 | 5,8 | 4,8 | 5,0 | 7,2 | 1,001 | 10,023 | 7 48,6 | 467,5 | | | | | | |
| | | 16 150 | 38 35,2 | 4,4 | 4,9 | 4,6 | 4,7 | 6,7 | 1,001 | 10,020 | 7 48,5 | 467,6 | | | | | | |
| | | 17 160 | 39 22,0 | 4,0 | 4,4 | 4,2 | 4,4 | 6,3 | 1,001 | 10,017 | 7 47,5 | 467,7 | | | | | | |
| | | 18 170 | 40 9,0 | 3,6 | 3,8 | 3,7 | 3,9 | 5,6 | 1,001 | 10,015 | 7 48,5 | 467,8 | | | | | | |
| | | 19 180 | 40 55,8 | 3,3 | 3,5 | 3,4 | 3,5 | 5,1 | 1,001 | 10,013 | 7 48,3 | 467,7 | | | | | | |
| | | 20 190 | 41 42,5 | 2,7 | 2,9 | 2,8 | 3,1 | 4,5 | 1,000 | 10,011 | 7 48,0 | 467,5 | | | | | | |
| | | 21 200 | 42 29,0 | 2,4 | 2,7 | 2,5 | 2,6 | 3,7 | 1,000 | 10,009 | 7 47,7 | 467,3 | | | | | | |
| | | 22 210 | 43 16,0 | 2,2 | 2,5 | 2,3 | 2,4 | 3,4 | 1,000 | 10,007 | 7 48,0 | 467,7 | | | | | | |
| | | 23 220 | 44 2,9 | 2,0 | 2,7 | 2,3 | 2,3 | 3,3 | 1,000 | 10,006 | 7 47,9 | 467,6 | | | | | | |
| | | 24 230 | 44 49,3 | 1,8 | 2,0 | 1,9 | 2,1 | 3,0 | 1,000 | 10,005 | 7 47,5 | 467,3 | | | | | | |
| | | | | | | | | | | | | | | 467,5 | | | | |
| Lc. G. R. | 23, à 8 ^h 15' matin. | 1 0 | 4 42 8,2 | 17,5 | 17,0 | 17,2 | | | | | | | | Température = 27 ⁴ ,5. Après la fin de l'expérience précédente, l'aiguille n° 9 ayant été posée par mégarde auprès d'un de nos grands faisceaux magnétiques, nous avons dû croire que la dose d'aimantation de cette aiguille avait été changée; on s'en est assuré par une des expériences ci-après, qui a mis cette présomption hors de doute. | | | | |
| | | 2 10 | 43 7,2 | 15,7 | 15,3 | 15,5 | 16,3 | 22,5 | 1,009 | | | | | | | | | |
| | | 3 20 | 44 6,4 | 14,3 | 13,6 | 13,9 | 14,7 | 20,5 | 1,008 | | | | | | | | | |
| | | 4 30 | 45 5,0 | 13,0 | 12,4 | 12,7 | 13,3 | 18,7 | 1,007 | | | | | | | | | |
| | | 5 40 | 46 4,0 | 12,4 | 11,8 | 12,1 | 12,4 | 17,4 | 1,006 | | | | | | | | | |
| | | 6 50 | 47 2,8 | 11,2 | 10,6 | 10,9 | 11,5 | 16,3 | 1,005 | | | | | | | | | |
| | | 7 60 | 48 1,5 | 9,8 | 9,4 | 9,6 | 10,2 | 14,4 | 1,004 | | | | | | | | | |
| | | 8 70 | 49 0,0 | 9,1 | 8,7 | 8,9 | 9,2 | 13,1 | 1,003 | | | | | | | | | |
| | | 9 80 | 49 58,6 | 8,2 | 7,8 | 8,0 | 8,4 | 12,0 | 1,003 | | | | | | | | | |
| | | 10 90 | 50 57,0 | 7,3 | 6,9 | 7,1 | 7,5 | 10,8 | 1,002 | | | | | | | | | |
| | | 11 100 | 51 50,6 | 6,8 | 6,6 | 6,7 | 6,9 | 9,9 | 1,002 | 10,049 | 9 47,4 | 584,5 | | | | | | |
| | | 12 110 | 52 54,2 | 6,3 | 6,1 | 6,2 | 6,4 | 9,2 | 1,002 | 10,042 | 9 47,0 | 584,5 | | | | | | |
| | | 13 120 | 53 52,7 | 5,7 | 5,6 | 5,6 | 5,9 | 8,4 | 1,001 | 10,035 | 9 46,3 | 584,2 | | | | | | |
| | | 14 130 | 54 51,2 | 5,3 | 5,2 | 5,2 | 5,4 | 7,7 | 1,001 | 10,029 | 9 46,2 | 584,5 | | | | | | |
| | | 15 140 | 55 49,7 | 4,8 | 4,8 | 4,8 | 5,0 | 7,2 | 1,001 | 10,024 | 9 45,7 | 584,3 | | | | | | |
| | | 16 150 | 56 48,3 | 4,4 | 4,4 | 4,4 | 4,6 | 6,6 | 1,001 | 10,020 | 9 45,5 | 584,3 | | | | | | |
| | | 17 160 | 57 46,9 | 3,8 | 3,9 | 3,8 | 4,1 | 5,9 | 1,001 | 10,017 | 9 45,4 | 584,4 | | | | | | |
| | | 18 170 | 58 45,3 | 3,5 | 3,6 | 3,5 | 3,6 | 5,2 | 1,001 | 10,015 | 9 45,3 | 584,4 | | | | | | |
| | | 19 180 | 59 43,6 | 3,3 | 3,4 | 3,3 | 3,4 | 4,9 | 1,001 | 10,013 | 9 45,0 | 584,2 | | | | | | |
| | | 20 190 | 5 0 42,2 | 3,0 | 3,1 | 3,0 | 3,1 | 4,5 | 1,000 | 10,011 | 9 45,2 | 584,5 | | | | | | |
| | | 21 200 | 1 40,7 | 2,7 | 2,9 | 2,8 | 2,9 | 4,1 | 1,000 | 10,009 | 9 45,1 | 584,6 | | | | | | |
| | | 22 210 | 2 39,2 | 2,5 | 2,7 | 2,6 | 2,7 | 3,8 | 1,000 | 10,007 | 9 45,0 | 584,6 | | | | | | |
| | | 23 220 | 3 37,7 | 2,3 | 2,5 | 2,4 | 2,5 | 3,6 | 1,000 | 10,006 | 9 45,0 | 584,6 | | | | | | |
| | | 24 230 | 4 36,0 | 2,0 | 2,2 | 2,1 | 2,2 | 3,1 | 1,000 | 10,005 | 9 44,8 | 584,5 | | | | | | |
| | | 25 240 | 5 34,3 | 1,8 | 2,0 | 1,9 | 2,0 | 2,9 | 1,000 | 10,004 | 9 44,6 | 584,4 | | | | | | |
| | | | | | | | | | | | | | | 584,4 | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | NUMÉROS D'ORDRE. | OSCILLATIONS. | HEURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | REMARQUES. | |
|------------------|---|------------------|--------------------------|-----------------------------|--|-------|-----------------|---|------------|--|-------------------------------|------------------------------------|------------|--|
| | | | | | AMPLITUDES. | | | CORREC- TIONS dépen- dantes de l'amplit. | | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | infinim. petites. (Moyennes) | | |
| | | | | | En parties | | Moyenne-moyenne | en parties. | en degrés. | | | | | |
| Lb. B. Db. | 1818. Juin 26, à 11 ^h 15' matin. | 1 0 | 4 ^h 50' 43",5 | 16",0 | 15",8 | 15",9 | | | | | | | | Température = 23 ^o ,3. |
| | | 2 10 | 51 25,0 | 14,8 | 14,7 | 14,7 | 15",3 | 21",2 | 1,009 | | | | | Après l'événement dont je viens de rendre compte, j'ai aimé à nouveau à saturer cette aiguille n° 9, et l'ai remise aussitôt en expérience; c'est ainsi que j'ai obtenu les deux résultats suivants, à la date du 26 juin. |
| | | 3 20 | 52 5,5 | 13,7 | 13,6 | 13,6 | 14,1 | 19,7 | 1,008 | | | | | |
| | | 4 30 | 52 47,0 | 12,8 | 12,6 | 12,7 | 13,1 | 18,4 | 1,006 | | | | | |
| | | 5 40 | 53 28,0 | 11,7 | 11,5 | 11,6 | 12,1 | 17,0 | 1,006 | | | | | |
| | | 6 50 | 54 0,0 | 10,6 | 10,4 | 10,5 | 11,0 | 15,6 | 1,005 | | | | | |
| | | 7 60 | 54 50,0 | 9,8 | 9,6 | 9,7 | 10,1 | 14,3 | 1,004 | | | | | |
| | | 8 70 | 55 30,5 | 9,1 | 8,9 | 9,0 | 9,3 | 13,3 | 1,003 | | | | | |
| | | 9 80 | 56 11,5 | 8,4 | 8,3 | 8,3 | 8,6 | 12,3 | 1,002 | | | | | |
| | | 10 90 | 56 52,8 | 7,8 | 7,7 | 7,7 | 8,0 | 11,5 | 1,002 | | | | | |
| | | 11 100 | 57 33,5 | 7,4 | 7,3 | 7,3 | 7,5 | 10,8 | 1,002 | 10,047 | 6' 50",0 | 408",1 | | |
| | | 12 110 | 58 14,5 | 7,0 | 6,9 | 6,9 | 7,1 | 10,2 | 1,002 | 10,040 | 6 49,5 | 407,9 | | |
| | | 13 120 | 58 55,0 | 6,6 | 6,5 | 6,5 | 6,7 | 9,6 | 1,002 | 10,034 | 6 49,5 | 408,1 | | |
| | | 14 130 | 59 30,0 | 6,2 | 6,0 | 6,1 | 6,3 | 9,1 | 1,002 | 10,030 | 6 49,0 | 407,8 | | |
| | | 15 140 | 5 0 17,0 | 5,8 | 5,7 | 5,7 | 5,9 | 8,4 | 1,002 | 10,026 | 6 49,0 | 407,9 | | |
| | | 16 150 | 0 57,8 | 5,4 | 5,3 | 5,3 | 5,5 | 7,9 | 1,002 | 10,023 | 6 48,8 | 407,9 | | |
| | | 17 160 | 1 38,5 | 5,0 | 4,9 | 4,9 | 5,1 | 7,3 | 1,001 | 10,020 | 6 48,5 | 407,7 | | |
| | | 18 179 | 2 19,7 | 4,6 | 4,6 | 4,6 | 4,7 | 6,7 | 1,001 | 10,018 | 6 49,2 | 408,3 | | |
| | | 19 180 | 3 0,0 | 4,3 | 4,2 | 4,2 | 4,4 | 6,3 | 1,001 | 10,017 | 6 48,5 | 407,8 | | |
| | | 20 190 | 3 41,0 | 4,0 | 3,9 | 3,9 | 4,0 | 5,8 | 1,001 | 10,016 | 6 48,2 | 407,5 | | |
| | | 21 200 | 4 22,0 | 3,8 | 3,7 | 3,7 | 3,8 | 5,4 | 1,001 | 10,015 | 6 48,5 | 407,9 | | |
| | | 22 210 | 5 2,6 | 3,6 | 3,5 | 3,5 | 3,6 | 5,2 | 1,001 | 10,014 | 6 48,1 | 407,5 | | |
| | | 23 220 | 5 43,0 | 3,3 | 3,2 | 3,2 | 3,3 | 4,8 | 1,001 | 10,013 | 6 48,0 | 407,5 | | |
| | | 24 230 | 6 24,0 | 3,1 | 3,0 | 3,0 | 3,1 | 4,5 | 1,001 | 10,012 | 6 48,0 | 407,5 | | |
| | | 25 240 | 7 5,0 | 2,9 | 2,8 | 2,8 | 2,9 | 4,1 | 1,000 | 10,010 | 6 48,0 | 407,6 | | |
| | | 26 250 | 7 45,6 | 2,7 | 2,7 | 2,7 | 2,7 | 3,8 | 1,000 | 10,008 | 6 47,8 | 407,5 | | |
| | | 27 260 | 8 26,5 | 2,5 | 2,4 | 2,4 | 2,5 | 3,6 | 1,000 | 10,007 | 6 48,0 | 407,7 | | |
| | | 28 270 | 9 8,0 | 2,4 | 2,3 | 2,3 | 2,3 | 3,3 | 1,000 | 10,006 | 6 48,3 | 408,0 | | |
| | | 29 280 | 9 49,5 | 2,3 | 2,2 | 2,2 | 2,2 | 3,1 | 1,000 | 10,005 | 6 49,5 | 409,3 | | |
| | | 30 290 | 10 30,5 | 2,1 | 2,0 | 2,0 | 2,1 | 3,0 | 1,000 | 10,004 | 6 49,5 | 409,3 | | 407,9 |
| Lb. B. | 26, midil 15' | 1 0 | 5 34 24,5 | 16,7 | 16,8 | 16,7 | | | | | | | | Température = 30 ^o ,0. |
| | | 2 10 | 35 5,3 | 15,6 | 15,7 | 15,6 | 16,1 | 22,2 | 1,009 | | | | | |
| | | 3 20 | 35 46,7 | 14,5 | 14,6 | 14,5 | 15,0 | 20,8 | 1,009 | | | | | |
| | | 4 30 | 36 28,0 | 13,4 | 13,5 | 13,4 | 13,9 | 19,5 | 1,008 | | | | | |
| | | 5 40 | 37 9,0 | 12,4 | 12,5 | 12,4 | 12,9 | 18,1 | 1,006 | | | | | |
| | | 6 50 | 37 50,0 | 11,5 | 11,6 | 11,5 | 11,9 | 16,8 | 1,006 | | | | | |
| | | 7 60 | 38 31,0 | 10,6 | 10,7 | 10,6 | 11,0 | 15,6 | 1,005 | | | | | |
| | | 8 70 | 39 12,0 | 9,7 | 9,8 | 9,7 | 10,1 | 14,3 | 1,004 | | | | | |
| | | 9 80 | 39 53,0 | 8,8 | 8,9 | 8,8 | 9,2 | 13,1 | 1,003 | | | | | |
| | | 10 90 | 40 34,0 | 8,2 | 8,3 | 8,2 | 8,5 | 12,2 | 1,003 | | | | | |
| | | 11 100 | 41 14,5 | 7,7 | 7,8 | 7,7 | 7,9 | 11,3 | 1,002 | 10,055 | 6 50,0 | 407,8 | | |
| | | 12 110 | 41 55,5 | 7,3 | 7,3 | 7,3 | 7,5 | 10,8 | 1,002 | 10,048 | 6 50,2 | 408,2 | | |
| | | 13 120 | 42 37,0 | 6,8 | 6,8 | 6,8 | 7,0 | 10,1 | 1,002 | 10,041 | 6 50,3 | 408,6 | | |
| | | 14 130 | 43 17,0 | 6,4 | 6,5 | 6,4 | 6,6 | 9,5 | 1,002 | 10,035 | 6 49,0 | 407,6 | | |
| | | 15 140 | 43 58,0 | 6,0 | 6,1 | 6,0 | 6,2 | 8,9 | 1,002 | 10,031 | 6 49,0 | 407,7 | | |
| | | 16 150 | 44 39,0 | 5,6 | 5,7 | 5,6 | 5,8 | 8,2 | 1,001 | 10,026 | 6 49,0 | 407,9 | | |
| | | 17 160 | 45 20,0 | 5,2 | 5,3 | 5,2 | 5,4 | 7,7 | 1,001 | 10,022 | 6 49,0 | 408,1 | | |
| | | 18 170 | 46 0,5 | 4,8 | 4,9 | 4,8 | 5,0 | 7,2 | 1,001 | 10,019 | 6 48,5 | 407,7 | | |
| | | 19 180 | 46 43,5 | 4,5 | 4,6 | 4,5 | 4,6 | 6,6 | 1,001 | 10,017 | 6 50,5 | 409,8 | | |
| | | 20 190 | 47 24,5 | 4,3 | 4,4 | 4,3 | 4,4 | 6,3 | 1,001 | 10,015 | 6 50,5 | 409,9 | | |
| | | 21 200 | 48 5,0 | 4,0 | 4,1 | 4,0 | 4,1 | 5,9 | 1,001 | 10,014 | 6 50,5 | 409,9 | | |
| | | 22 210 | 48 45,5 | 3,7 | 3,8 | 3,7 | 3,8 | 5,4 | 1,001 | 10,013 | 6 50,0 | 409,5 | | |
| | | 23 220 | 49 27,0 | 3,4 | 3,5 | 3,4 | 3,5 | 5,1 | 1,001 | 10,012 | 6 50,0 | 409,5 | | |
| | | 24 230 | 50 7,7 | 3,2 | 3,3 | 3,2 | 3,3 | 4,8 | 1,001 | 10,011 | 6 50,7 | 410,2 | | |
| | | 25 240 | 50 48,3 | 3,0 | 3,1 | 3,0 | 3,1 | 4,5 | 1,000 | 10,009 | 6 50,3 | 409,9 | | |
| | | 26 250 | 51 29,0 | 2,9 | 3,0 | 2,9 | 2,9 | 4,1 | 1,000 | 10,008 | 6 50,0 | 409,7 | | |
| | | 27 260 | 52 9,6 | 2,8 | 2,9 | 2,8 | 2,8 | 3,9 | 1,000 | 10,007 | 6 49,6 | 409,3 | | |
| | | 28 270 | 52 50,3 | 2,6 | 2,7 | 2,6 | 2,7 | 3,8 | 1,000 | 10,006 | 6 49,8 | 409,6 | | |
| | | 29 280 | 53 31,6 | 2,4 | 2,5 | 2,4 | 2,5 | 3,6 | 1,000 | 10,005 | 6 48,1 | 407,9 | | |
| | | 30 290 | 54 12,0 | 2,2 | 2,3 | 2,2 | 2,3 | 3,3 | 1,000 | 10,004 | 6 47,5 | 407,3 | | |
| | | 31 300 | 54 52,7 | 2,0 | 2,1 | 2,0 | 2,1 | 3,0 | 1,000 | 10,003 | 6 47,7 | 407,6 | | 408,7 |

| OBSERVATEURS. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 et 8. | | | | | | | | | | | | | | REMARQUES. |
|------------------|---|------------------|---------------|------------------------------|-------------|-------|-----------------|-------|---|--|-------------------------------|---------------|----------|------------------------------------|--|
| | DATES et HEURES. | NUMÉROS D'ORDRE. | OSCILLATIONS. | HEURES du chronomètre. | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplif. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | | |
| | | | | | En parties | | Moyenne-moyenne | | | | en parties. | en degrés. | réelles. | infinit. petites. (Moyennes) | |
| Lb. B. P. | 1818. Juin 26, à 1 ^h 15' soir. | 1 0 | 7 3' 23",0 | 22°,2 | 22°,0 | 22°,1 | | | | | | | | | Température = 20°,0. Aiguille n° 7. |
| | | 2 10 | 4 55,0 | 20,2 | 20,0 | 20,1 | 21°,1 | 17°,6 | 1,006 | | | | | | |
| | | 3 20 | 6 27,0 | 18,5 | 18,3 | 18,4 | 19,2 | 16,1 | 1,005 | | | | | | |
| | | 4 30 | 7 58,3 | 17,0 | 16,8 | 16,9 | 17,6 | 14,9 | 1,004 | | | | | | |
| | | 5 40 | 9 30,0 | 15,7 | 15,5 | 15,6 | 16,2 | 13,7 | 1,004 | | | | | | |
| | | 6 50 | 11 1,5 | 14,1 | 13,9 | 14,0 | 14,8 | 12,5 | 1,003 | | | | | | |
| | | 7 60 | 12 33,0 | 12,9 | 12,7 | 12,8 | 13,4 | 11,4 | 1,002 | | | | | | |
| | | 8 70 | 14 4,5 | 11,5 | 11,4 | 11,4 | 12,1 | 10,3 | 1,002 | | | | | | |
| | | 9 80 | 15 35,5 | 10,6 | 10,5 | 10,5 | 10,9 | 9,3 | 1,002 | | | | | | |
| | | 10 90 | 17 7,6 | 9,8 | 9,7 | 9,7 | 10,1 | 8,7 | 1,002 | | | | | | |
| | | 11 100 | 18 38,5 | 8,9 | 8,8 | 8,8 | 9,2 | 7,9 | 1,001 | 10,031 | 15'15",5 | 912",7 | | | |
| | | 12 110 | 20 9,6 | 8,0 | 7,9 | 7,9 | 8,3 | 7,1 | 1,001 | 10,026 | 15 14,0 | 912,2 | | | |
| | | 13 120 | 21 41,0 | 7,2 | 7,1 | 7,1 | 7,5 | 6,4 | 1,001 | 10,022 | 15 14,0 | 912,0 | | | |
| | | 14 130 | 23 12,0 | 6,6 | 6,5 | 6,5 | 6,8 | 5,8 | 1,001 | 10,019 | 15 13,0 | 912,0 | | | |
| | | 15 140 | 24 43,0 | 6,1 | 6,0 | 6,0 | 6,2 | 5,4 | 1,001 | 10,016 | 15 13,0 | 911,5 | | | |
| | | 16 150 | 26 14,6 | 5,5 | 5,5 | 5,4 | 5,7 | 4,9 | 1,001 | 10,014 | 15 13,1 | 911,8 | | | |
| | | 17 160 | 27 45,6 | 5,0 | 4,4 | 4,9 | 5,1 | 4,4 | 1,000 | 10,012 | 15 12,9 | 911,5 | | | |
| | | 18 170 | 29 17,0 | 4,5 | 4,9 | 4,4 | 4,6 | 3,9 | 1,000 | 10,010 | 15 12,5 | 911,6 | | | |
| | | 19 180 | 30 48,3 | 4,1 | 4,0 | 4,0 | 4,2 | 3,6 | 1,000 | 10,008 | 15 12,8 | 912,1 | | | |
| | | 20 190 | 32 19,5 | 3,6 | 3,5 | 3,5 | 3,7 | 3,2 | 1,000 | 10,006 | 15 11,9 | 911,3 | | | |
| | | 21 200 | 33 51,0 | 3,3 | 3,2 | 3,2 | 3,3 | 2,8 | 1,000 | 10,005 | 15 12,5 | 912,0 | | | |
| | | 22 210 | 35 22,0 | 3,0 | 2,9 | 2,9 | 3,0 | 2,6 | 1,000 | 10,004 | 15 12,4 | 912,0 | | | |
| | | 23 220 | 36 53,5 | 2,8 | 2,7 | 2,7 | 2,8 | 2,3 | 1,000 | 10,003 | 15 12,5 | 912,2 | | | |
| | | 24 230 | 38 24,0 | 2,5 | 2,4 | 2,4 | 2,5 | 2,1 | 1,000 | 10,002 | 15 12,0 | 911,8 | | | |
| | | 25 240 | 39 55,5 | 2,2 | 2,7 | 2,4 | 2,4 | 2,0 | 1,000 | 10,001 | 15 12,5 | 912,4 | | | |
| | | 26 250 | 41 27,0 | 2,0 | 1,9 | 1,9 | 2,1 | 1,8 | 1,000 | 10,000 | 15 12,4 | 912,4 | | | |
| | | | | | | | | | | | | 912,0 | | | |
| Lb. Db. T. | 30, à 1 ^h 21' soir. | 1 0 | 7 27 55,0 | 24,6 | 24,5 | 24,5 | | | | | | | | | Température = 29°,0. Aiguille n° 8. |
| | | 2 10 | 29 27,5 | 22,4 | 22,3 | 22,3 | 23,4 | 19,4 | 1,007 | | | | | | |
| | | 3 20 | 30 59,3 | 20,0 | 19,9 | 19,9 | 21,1 | 17,6 | 1,006 | | | | | | |
| | | 4 30 | 32 30,5 | 17,7 | 17,5 | 17,6 | 18,7 | 15,7 | 1,005 | | | | | | |
| | | 5 40 | 34 2,7 | 15,7 | 15,6 | 15,6 | 16,6 | 14,0 | 1,004 | | | | | | |
| | | 6 50 | 35 34,0 | 14,2 | 14,0 | 14,1 | 14,8 | 12,5 | 1,003 | | | | | | |
| | | 7 60 | 37 6,0 | 12,8 | 12,6 | 12,7 | 13,4 | 11,4 | 1,002 | | | | | | |
| | | 8 70 | 38 37,3 | 11,3 | 11,1 | 11,2 | 11,9 | 10,1 | 1,002 | | | | | | |
| | | 9 80 | 40 9,0 | 10,0 | 9,8 | 9,9 | 10,5 | 9,0 | 1,002 | | | | | | |
| | | 10 90 | 41 40,0 | 8,7 | 8,5 | 8,6 | 9,2 | 7,9 | 1,001 | | | | | | |
| | | 11 100 | 43 11,5 | 7,4 | 7,2 | 7,3 | 7,9 | 6,7 | 1,001 | 10,033 | 15 16,5 | 913,5 | | | |
| | | 12 110 | 44 43,3 | 6,6 | 6,4 | 6,5 | 6,9 | 5,9 | 1,001 | 10 027 | 15 15,8 | 913,3 | | | |
| | | 13 120 | 46 14,0 | 5,7 | 5,5 | 5,6 | 6,0 | 5,2 | 1,001 | 10,022 | 15 14,7 | 912,7 | | | |
| | | 14 130 | 47 45,5 | 5,0 | 4,8 | 4,9 | 5,2 | 4,5 | 1,000 | 10,017 | 15 15,0 | 913,4 | | | |
| | | 15 140 | 49 17,0 | 4,4 | 4,2 | 4,3 | 4,6 | 3,9 | 1,000 | 10,013 | 15 14,3 | 912,7 | | | |
| | | 16 150 | 50 48,0 | 3,8 | 3,7 | 3,7 | 4,0 | 3,4 | 1,000 | 10,010 | 15 14,0 | 913,1 | | | |
| | | 17 160 | 52 19,5 | 3,3 | 3,1 | 3,2 | 3,4 | 2,9 | 1,000 | 10,008 | 15 13,5 | 912,8 | | | |
| | | 18 170 | 53 51,0 | 2,9 | 2,8 | 2,8 | 3,0 | 2,6 | 1,000 | 10,006 | 15 13,7 | 913,1 | | | |
| | | 19 180 | 55 21,0 | 2,6 | 2,4 | 2,5 | 2,6 | 2,2 | 1,000 | 10,004 | 15 12,0 | 911,6 | | | |
| | | 20 190 | 56 53,0 | 2,3 | 2,1 | 2,2 | 2,3 | 1,9 | 1,000 | 10,003 | 15 13,0 | 912,7 | | | |
| | | 21 200 | 58 25,0 | 2,0 | 1,8 | 1,9 | 2,0 | 1,7 | 1,000 | 10,002 | 15 13,5 | 913,3 | | | |
| | | | | | | | | | | | | 913,0 | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | | | | | | | | | |
|------------------|--|----|------------------|--------------------------|-----------------------|--------------------|--------------------|---------|--------------------|--|--|---------------------------------|--------|--|--|--|--|
| | DATES | | NUMÉROS D'ORDRE. | OSCILLATIONS. | HEURE du chronomètre. | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | | | |
| | et HEURES. | | | | | En parties | | | Moyenne-moyenne | | | réelles. | | | | | |
| | | | | | | à gauche. | à droite. | Moyenn. | en parties. | en degrés. | | infinit. petites. (Moyennes) | | | | | |
| Lb. B. Db. | 1818. | 1 | 0 | 4 ^h 50' 43',5 | 16 ^o ,0 | 15 ^o ,8 | 15 ^o ,9 | | | | | | | | | | |
| | Juin | 2 | 10 | 51 25,0 | 14,8 | 14,7 | 14,7 | 15,3 | 21 ^o ,2 | 1,009 | 10,047 | 6' 50",0 | 408",1 | | | | |
| | 26, à 11 ^h 15' matin. | 3 | 20 | 52 5,5 | 13,7 | 13,6 | 13,6 | 14,1 | 19,7 | 1,008 | 10,040 | 6 49,5 | 407,9 | | | | |
| | | 4 | 30 | 52 47,0 | 12,8 | 12,6 | 12,7 | 13,1 | 18,4 | 1,006 | 10,034 | 6 49,5 | 408,1 | | | | |
| | | 5 | 40 | 53 28,0 | 11,7 | 11,5 | 11,6 | 12,1 | 17,0 | 1,006 | 10,030 | 6 49,0 | 407,8 | | | | |
| | | 6 | 50 | 54 9,0 | 10,6 | 10,4 | 10,5 | 11,0 | 15,6 | 1,005 | 10,026 | 6 49,0 | 407,9 | | | | |
| | | 7 | 60 | 54 50,0 | 9,8 | 9,6 | 9,7 | 10,1 | 14,3 | 1,004 | 10,018 | 6 49,2 | 408,3 | | | | |
| | | 8 | 70 | 55 30,5 | 9,1 | 8,9 | 9,0 | 9,3 | 13,3 | 1,003 | 10,017 | 6 48,5 | 407,8 | | | | |
| | | 9 | 80 | 56 11,5 | 8,4 | 8,3 | 8,3 | 8,6 | 12,3 | 1,002 | 10,016 | 6 48,2 | 407,5 | | | | |
| | | 10 | 90 | 56 52,8 | 7,8 | 7,7 | 7,7 | 8,0 | 11,5 | 1,002 | 10,023 | 6 48,8 | 407,9 | | | | |
| | | 11 | 100 | 57 33,5 | 7,4 | 7,3 | 7,3 | 7,5 | 10,8 | 1,002 | 10,020 | 6 48,5 | 407,7 | | | | |
| | | 12 | 110 | 58 14,5 | 7,0 | 6,9 | 6,9 | 7,1 | 10,2 | 1,002 | 10,015 | 6 48,5 | 407,9 | | | | |
| | | 13 | 120 | 58 55,0 | 6,6 | 6,5 | 6,5 | 6,7 | 9,6 | 1,002 | 10,014 | 6 48,1 | 407,5 | | | | |
| | | 14 | 130 | 59 36,0 | 6,2 | 6,0 | 6,1 | 6,3 | 9,1 | 1,002 | 10,013 | 6 48,0 | 407,5 | | | | |
| | | 15 | 140 | 5 0 17,0 | 5,8 | 5,7 | 5,7 | 5,9 | 8,4 | 1,002 | 10,012 | 6 48,0 | 407,5 | | | | |
| | | 16 | 150 | 0 57,8 | 5,4 | 5,3 | 5,3 | 5,5 | 7,9 | 1,002 | 10,010 | 6 48,0 | 407,6 | | | | |
| | | 17 | 160 | 1 38,5 | 5,0 | 4,9 | 4,9 | 5,1 | 7,3 | 1,001 | 10,008 | 6 47,8 | 407,5 | | | | |
| | | 18 | 170 | 2 19,7 | 4,6 | 4,6 | 4,6 | 4,7 | 6,7 | 1,001 | 10,007 | 6 48,0 | 407,3 | | | | |
| | | 19 | 180 | 3 0,0 | 4,3 | 4,2 | 4,2 | 4,4 | 6,3 | 1,001 | 10,006 | 6 48,3 | 408,0 | | | | |
| | | 20 | 190 | 3 41,0 | 4,0 | 3,9 | 3,9 | 4,0 | 5,8 | 1,001 | 10,005 | 6 49,5 | 409,3 | | | | |
| | | 21 | 200 | 4 22,0 | 3,8 | 3,7 | 3,7 | 3,8 | 5,4 | 1,001 | 10,004 | 6 47,7 | 407,5 | | | | |
| | | 22 | 210 | 5 2,6 | 3,6 | 3,5 | 3,5 | 3,6 | 5,2 | 1,001 | 10,003 | 6 48,0 | 407,5 | | | | |
| | | 23 | 220 | 5 43,0 | 3,3 | 3,2 | 3,2 | 3,3 | 4,8 | 1,001 | 10,002 | 6 48,0 | 407,5 | | | | |
| | | 24 | 230 | 6 24,0 | 3,1 | 3,0 | 3,0 | 3,1 | 4,5 | 1,001 | 10,001 | 6 48,0 | 407,5 | | | | |
| | | 25 | 240 | 7 5,0 | 2,9 | 2,8 | 2,8 | 2,9 | 4,1 | 1,000 | 10,000 | 6 48,0 | 407,6 | | | | |
| | | 26 | 250 | 7 45,6 | 2,7 | 2,7 | 2,7 | 2,7 | 3,8 | 1,000 | 10,008 | 6 47,8 | 407,5 | | | | |
| | | 27 | 260 | 8 26,5 | 2,5 | 2,4 | 2,4 | 2,5 | 3,6 | 1,000 | 10,007 | 6 48,0 | 407,7 | | | | |
| | | 28 | 270 | 9 8,0 | 2,4 | 2,3 | 2,3 | 2,3 | 3,3 | 1,000 | 10,006 | 6 48,3 | 408,0 | | | | |
| | | 29 | 280 | 9 49,5 | 2,3 | 2,2 | 2,2 | 2,2 | 3,1 | 1,000 | 10,005 | 6 49,5 | 409,3 | | | | |
| | | 30 | 290 | 10 30,5 | 2,1 | 2,0 | 2,0 | 2,1 | 3,0 | 1,000 | 10,004 | 6 49,5 | 409,3 | | | | |
| | | | | | | | | | | | 407,9 | | | | | | |
| Lb. B. | 26, midi 15' | 1 | 0 | 5 34 24,5 | 16,7 | 16,8 | 16,7 | | | | | | | | | | |
| | | 2 | 10 | 35 5,3 | 15,6 | 15,7 | 15,6 | 16,1 | 22,2 | 1,009 | 10,055 | 6 50,0 | 407,8 | | | | |
| | | 3 | 20 | 35 46,7 | 14,5 | 14,6 | 14,5 | 15,0 | 20,8 | 1,009 | 10,048 | 6 50,2 | 408,2 | | | | |
| | | 4 | 30 | 36 28,0 | 13,4 | 13,5 | 13,4 | 13,9 | 19,5 | 1,008 | 10,041 | 6 50,3 | 408,6 | | | | |
| | | 5 | 40 | 37 9,0 | 12,4 | 12,5 | 12,4 | 12,9 | 18,1 | 1,006 | 10,035 | 6 49,0 | 407,6 | | | | |
| | | 6 | 50 | 37 50,0 | 11,5 | 11,6 | 11,5 | 11,9 | 16,8 | 1,006 | 10,031 | 6 49,0 | 407,7 | | | | |
| | | 7 | 60 | 38 31,0 | 10,6 | 10,7 | 10,6 | 11,0 | 15,6 | 1,005 | 10,026 | 6 49,0 | 407,9 | | | | |
| | | 8 | 70 | 39 12,0 | 9,7 | 9,8 | 9,7 | 10,1 | 14,3 | 1,004 | 10,022 | 6 49,0 | 408,1 | | | | |
| | | 9 | 80 | 39 53,0 | 8,8 | 8,9 | 8,8 | 9,2 | 13,1 | 1,003 | 10,019 | 6 48,5 | 407,7 | | | | |
| | | 10 | 90 | 40 34,0 | 8,2 | 8,3 | 8,2 | 8,5 | 12,2 | 1,003 | 10,017 | 6 50,5 | 409,8 | | | | |
| | | 11 | 100 | 41 14,5 | 7,7 | 7,8 | 7,7 | 7,9 | 11,3 | 1,002 | 10,015 | 6 50,5 | 409,9 | | | | |
| | | 12 | 110 | 41 55,5 | 7,3 | 7,3 | 7,3 | 7,5 | 10,8 | 1,002 | 10,014 | 6 50,5 | 409,9 | | | | |
| | | 13 | 120 | 42 37,0 | 6,8 | 6,8 | 6,8 | 7,0 | 10,1 | 1,002 | 10,013 | 6 50,0 | 409,5 | | | | |
| | | 14 | 130 | 43 17,0 | 6,4 | 6,5 | 6,4 | 6,6 | 9,5 | 1,002 | 10,012 | 6 50,0 | 409,5 | | | | |
| | | 15 | 140 | 43 58,0 | 6,0 | 6,1 | 6,0 | 6,2 | 8,9 | 1,002 | 10,011 | 6 50,7 | 410,2 | | | | |
| | | 16 | 150 | 44 39,0 | 5,6 | 5,7 | 5,6 | 5,8 | 8,2 | 1,001 | 10,009 | 6 50,3 | 409,9 | | | | |
| | | 17 | 160 | 45 20,0 | 5,2 | 5,3 | 5,2 | 5,4 | 7,7 | 1,001 | 10,008 | 6 50,0 | 409,7 | | | | |
| | | 18 | 170 | 46 0,5 | 4,8 | 4,9 | 4,8 | 5,0 | 7,2 | 1,001 | 10,007 | 6 49,6 | 409,3 | | | | |
| | | 19 | 180 | 46 43,5 | 4,5 | 4,6 | 4,5 | 4,6 | 6,6 | 1,001 | 10,006 | 6 49,8 | 409,6 | | | | |
| | | 20 | 190 | 47 24,5 | 4,3 | 4,4 | 4,3 | 4,4 | 6,3 | 1,001 | 10,005 | 6 50,5 | 409,9 | | | | |
| | | 21 | 200 | 48 5,0 | 4,0 | 4,1 | 4,0 | 4,1 | 5,9 | 1,001 | 10,004 | 6 50,5 | 409,9 | | | | |
| | | 22 | 210 | 48 45,5 | 3,7 | 3,8 | 3,7 | 3,8 | 5,4 | 1,001 | 10,003 | 6 50,0 | 409,5 | | | | |
| | | 23 | 220 | 49 27,0 | 3,4 | 3,5 | 3,4 | 3,5 | 5,1 | 1,001 | 10,002 | 6 50,0 | 409,5 | | | | |
| | | 24 | 230 | 50 7,7 | 3,2 | 3,3 | 3,2 | 3,3 | 4,8 | 1,001 | 10,001 | 6 50,7 | 410,2 | | | | |
| | | 25 | 240 | 50 48,3 | 3,0 | 3,1 | 3,0 | 3,1 | 4,5 | 1,000 | 10,000 | 6 50,3 | 409,9 | | | | |
| | | 26 | 250 | 51 29,0 | 2,9 | 3,0 | 2,9 | 2,9 | 4,1 | 1,000 | 10,008 | 6 50,0 | 409,7 | | | | |
| | | 27 | 260 | 52 9,6 | 2,8 | 2,9 | 2,8 | 2,8 | 3,9 | 1,000 | 10,007 | 6 49,6 | 409,3 | | | | |
| | | 28 | 270 | 52 50,3 | 2,6 | 2,7 | 2,6 | 2,7 | 3,8 | 1,000 | 10,006 | 6 49,8 | 409,6 | | | | |
| | | 29 | 280 | 53 31,6 | 2,4 | 2,5 | 2,4 | 2,5 | 3,6 | 1,000 | 10,005 | 6 48,1 | 407,9 | | | | |
| | | 30 | 290 | 54 12,0 | 2,2 | 2,3 | 2,2 | 2,3 | 3,3 | 1,000 | 10,004 | 6 47,5 | 407,3 | | | | |
| | | 31 | 300 | 54 52,7 | 2,0 | 2,1 | 2,0 | 2,1 | 3,0 | 1,000 | 10,003 | 6 47,7 | 407,6 | | | | |
| | | | | | | | | | | | 408,7 | | | | | | |

| OBSERVATEURS. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 et 8. | | | | | | | | | | | | REMARQUES. | |
|------------------|--|--|---------------|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------------------------|---|----------------------------|------------|----------|-----------------------------|--|
| | | NUMÉROS D'ORDRE. | OSCILLATIONS. | HEURES du chronomètre. | AMPLITUDES. | | | | CORRÉCTIONS dépendantes de l'amplit. | SOMME des corrections pour cent oscillat. | DURÉE de cent oscillations | | | | |
| | | | | | En parties | | Moyenne-moyenne | | | | en parties. | en degrés. | réelles. | infinim. petites. (Moyenne) | |
| Lb. B. P. | 1818. Juin à 1 ^h 15' soir. | 1 0 | 7 3' 23",0 | 22 ^o ,2 | 22 ^o ,0 | 22 ^o ,1 | | | | | | | | | Température = 20°,0. Aiguille n° 7. |
| | | 2 10 | 4 55,0 | 20,2 | 20,0 | 20,1 | 21 ^o ,1 | 17 ^o ,6 | 1,006 | | | | | | |
| | | 3 20 | 6 27,0 | 18,5 | 18,3 | 18,4 | 19,2 | 16,1 | 1,005 | | | | | | |
| | | 4 30 | 7 58,3 | 17,0 | 16,8 | 16,9 | 17,6 | 14,9 | 1,004 | | | | | | |
| | | 5 40 | 9 30,0 | 15,7 | 15,5 | 15,6 | 16,2 | 13,7 | 1,004 | | | | | | |
| | | 6 50 | 11 1,5 | 14,1 | 13,9 | 14,0 | 14,8 | 12,5 | 1,003 | | | | | | |
| | | 7 60 | 12 33,0 | 12,9 | 12,7 | 12,8 | 13,4 | 11,4 | 1,002 | | | | | | |
| | | 8 70 | 14 4,5 | 11,5 | 11,4 | 11,4 | 12,1 | 10,3 | 1,002 | | | | | | |
| | | 9 80 | 15 35,5 | 10,6 | 10,5 | 10,5 | 10,9 | 9,3 | 1,002 | | | | | | |
| | | 10 90 | 17 7,6 | 9,8 | 9,7 | 9,7 | 10,1 | 8,7 | 1,002 | | | | | | |
| | | 11 100 | 18 38,5 | 8,9 | 8,8 | 8,8 | 9,2 | 7,9 | 1,001 | 10,031 | 15'15",5 | 912",7 | | | |
| | | 12 110 | 20 9,6 | 8,0 | 7,9 | 7,9 | 8,3 | 7,1 | 1,001 | 10,026 | 15 14,0 | 912,2 | | | |
| | | 13 120 | 21 41,0 | 7,2 | 7,1 | 7,1 | 7,5 | 6,4 | 1,001 | 10,022 | 15 14,0 | 912,0 | | | |
| | | 14 130 | 23 12,0 | 6,6 | 6,5 | 6,5 | 6,8 | 5,8 | 1,001 | 10,019 | 15 13,0 | 912,0 | | | |
| | | 15 140 | 24 43,0 | 6,1 | 6,0 | 6,0 | 6,2 | 5,4 | 1,001 | 10,016 | 15 13,0 | 911,5 | | | |
| | | 16 150 | 26 14,6 | 5,5 | 5,5 | 5,4 | 5,7 | 4,9 | 1,001 | 10,014 | 15 13,1 | 911,8 | | | |
| | | 17 160 | 27 45,6 | 5,0 | 4,4 | 4,9 | 5,1 | 4,4 | 1,000 | 10,012 | 15 12,9 | 911,5 | | | |
| | | 18 170 | 29 17,0 | 4,5 | 4,9 | 4,4 | 4,6 | 3,9 | 1,000 | 10,010 | 15 12,5 | 911,6 | | | |
| | | 19 180 | 30 48,3 | 4,1 | 4,0 | 4,0 | 4,2 | 3,6 | 1,000 | 10,008 | 15 12,8 | 912,1 | | | |
| | | 20 190 | 32 19,5 | 3,6 | 3,5 | 3,5 | 3,7 | 3,2 | 1,000 | 10,006 | 15 11,9 | 911,3 | | | |
| | | 21 200 | 33 51,0 | 3,3 | 3,2 | 3,2 | 3,3 | 2,8 | 1,000 | 10,005 | 15 12,5 | 912,0 | | | |
| | | 22 210 | 35 22,0 | 3,0 | 2,9 | 2,9 | 3,0 | 2,6 | 1,000 | 10,004 | 15 12,4 | 912,0 | | | |
| | | 23 220 | 36 53,5 | 2,8 | 2,7 | 2,7 | 2,8 | 2,3 | 1,000 | 10,003 | 15 12,5 | 912,2 | | | |
| | | 24 230 | 38 24,0 | 2,5 | 2,4 | 2,4 | 2,5 | 2,1 | 1,000 | 10,002 | 15 12,0 | 911,8 | | | |
| | | 25 240 | 39 55,5 | 2,2 | 2,7 | 2,4 | 2,4 | 2,0 | 1,000 | 10,001 | 15 12,5 | 912,4 | | | |
| | | 26 250 | 41 27,0 | 2,0 | 1,9 | 1,9 | 2,1 | 1,8 | 1,000 | 10,000 | 15 12,4 | 912,4 | | | |
| | | | | | | | | | | | | | 912,0 | | |
| Lb. Db. T. | 30, à 1 ^h 21' soir. | 1 0 | 7 27 55,0 | 24,6 | 24,5 | 24,5 | | | | | | | | | Température = 29°,0. Aiguille n° 8. |
| | | 2 10 | 29 27,5 | 22,4 | 22,3 | 22,3 | 23,4 | 19,4 | 1,007 | | | | | | |
| | | 3 20 | 30 59,3 | 20,0 | 19,9 | 19,9 | 21,1 | 17,6 | 1,006 | | | | | | |
| | | 4 30 | 32 30,5 | 17,7 | 17,5 | 17,6 | 18,7 | 15,7 | 1,005 | | | | | | |
| | | 5 40 | 34 2,7 | 15,7 | 15,6 | 15,6 | 16,6 | 14,0 | 1,004 | | | | | | |
| | | 6 50 | 35 34,0 | 14,2 | 14,0 | 14,1 | 14,8 | 12,5 | 1,003 | | | | | | |
| | | 7 60 | 37 6,0 | 12,8 | 12,6 | 12,7 | 13,4 | 11,4 | 1,002 | | | | | | |
| | | 8 70 | 38 37,3 | 11,3 | 11,1 | 11,2 | 11,9 | 10,1 | 1,002 | | | | | | |
| | | 9 80 | 40 9,0 | 10,0 | 9,8 | 9,9 | 10,5 | 9,0 | 1,002 | | | | | | |
| | | 10 90 | 41 40,0 | 8,7 | 8,5 | 8,6 | 9,2 | 7,9 | 1,001 | | | | | | |
| | | 11 100 | 43 11,5 | 7,4 | 7,2 | 7,3 | 7,9 | 6,7 | 1,001 | 10,033 | 15 16,5 | 913,5 | | | |
| | | 12 110 | 44 43,3 | 6,6 | 6,4 | 6,5 | 6,9 | 5,9 | 1,001 | 10 027 | 15 15,8 | 913,3 | | | |
| | | 13 120 | 46 14,0 | 5,7 | 5,5 | 5,6 | 6,0 | 5,2 | 1,001 | 10,022 | 15 14,7 | 912,7 | | | |
| | | 14 130 | 47 45,5 | 5,0 | 4,8 | 4,9 | 5,2 | 4,5 | 1,000 | 10,017 | 15 15,0 | 913,4 | | | |
| | | 15 140 | 49 17,0 | 4,4 | 4,2 | 4,3 | 4,6 | 3,9 | 1,000 | 10,013 | 15 14,3 | 912,7 | | | |
| | | 16 150 | 50 48,0 | 3,8 | 3,7 | 3,7 | 4,0 | 3,4 | 1,000 | 10,010 | 15 14,0 | 913,1 | | | |
| | | 17 160 | 52 19,5 | 3,3 | 3,1 | 3,2 | 3,4 | 2,9 | 1,000 | 10,008 | 15 13,5 | 912,8 | | | |
| | | 18 170 | 53 51,0 | 2,9 | 2,8 | 2,8 | 3,0 | 2,6 | 1,000 | 10,006 | 15 13,7 | 913,1 | | | |
| | | 19 180 | 55 21,0 | 2,6 | 2,4 | 2,5 | 2,6 | 2,2 | 1,000 | 10,004 | 15 12,0 | 911,6 | | | |
| | | 20 190 | 56 53,0 | 2,3 | 2,1 | 2,2 | 2,3 | 1,9 | 1,000 | 10,003 | 15 13,0 | 912,7 | | | |
| | | 21 200 | 58 25,0 | 2,0 | 1,8 | 1,9 | 2,0 | 1,7 | 1,000 | 10,002 | 15 13,5 | 913,3 | | | |
| | | | | | | | | | | | | | 913,0 | | |

VOYAGE AUTOUR DU MONDE.

§ VI. — Baie des Chiens-Marins (Nouvelle-Hollande).

| OBSERVATION. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 7. | | | | | | | | | | REMARQUES. | |
|---------------------|---|--|--------------------------|-----------------------------|--------------------|--------------------|--------------|----------|---|--|---|------------|-----------------------------------|
| | | nomb. d'oscill. | oscillations. | HEURE du chronomètre. | AMPLITudes. | | | | corréc- tions dépen- dantes de l'amplit. | somme des correc- tions pour cent oscillat. | durée de cent oscillations réelles. | | |
| | | | | | En parties | à gauche. | à droite. | Moyenne. | | | | | |
| Frey. Lm. Fb. | 1818. Sept. 24, à 1 ^h 20' | 1 0 | 4 ^h 17' 49",4 | 17,0 | 21 ^o ,5 | 19 ^o ,2 | | | 1,004 | | | | Température = 20 ⁴ ,1. |
| | | 2 10 | 19 10,0 | 15,0 | 19,5 | 17,2 | | | | | | | |
| | | 3 20 | 20 30,5 | 13,5 | 18,0 | 15,7 | | | | | | | |
| | | 4 30 | 21 50,7 | 10,5 | 16,0 | 13,2 | | | | | | | |
| | | 5 40 | 23 11,2 | 9,5 | 15,0 | 12,2 | | | | | | | |
| | | 6 50 | 24 31,7 | 8,0 | 13,0 | 10,5 | | | | | | | |
| | | 7 60 | 25 51,2 | 7,0 | 12,0 | 9,5 | | | | | | | |
| | | 8 70 | 27 11,8 | 6,0 | 11,0 | 8,5 | | | | | | | |
| | | 9 80 | 28 32,3 | 5,0 | 10,0 | 7,5 | | | | | | | |
| | | 10 90 | 29 52,8 | 4,0 | 9,0 | 6,5 | | | | | | | |
| | | 11 100 | 31 13,2 | 3,0 | 8,0 | 5,5 | | | | | | | |
| | | 12 110 | 32 33,8 | 2,5 | 7,5 | 5,0 | | | | | | | |
| | | 13 120 | 33 54,1 | 2,0 | 7,0 | 4,5 | | | | | | | |
| | | 14 130 | 35 14,3 | 1,5 | 6,5 | 4,0 | | | | | | | |
| | | 15 140 | 36 34,7 | 1,0 | 6,0 | 3,5 | | | | | | | |
| Frey. Lm. Fb. | Sept. 24, à midi 15' | 1 0 | 5 14 39,7 | 17,5 | 21 ^o ,5 | 19,5 | | | | | | | 802,5 |
| | | 2 10 | 16 0,3 | 15,0 | 19,0 | 17,0 | | | | | | | |
| | | 3 20 | 17 20,2 | 13,0 | 17,0 | 15,0 | | | | | | | |
| | | 4 30 | 18 40,1 | 11,0 | 15,0 | 13,0 | | | | | | | |
| | | 5 40 | 20 0,6 | 9,5 | 13,5 | 11,5 | | | | | | | |
| | | 6 50 | 21 20,7 | 8,0 | 12,0 | 10,0 | | | | | | | |
| | | 7 60 | 22 40,7 | 7,5 | 11,5 | 9,5 | | | | | | | |
| | | 8 70 | 24 0,3 | 5,5 | 9,5 | 7,5 | | | | | | | |
| | | 9 80 | 25 20,8 | 4,5 | 8,5 | 6,5 | | | | | | | |
| | | 10 90 | 26 40,3 | 3,5 | 7,5 | 5,5 | | | | | | | |
| | | 11 100 | 28 0,5 | 3,0 | 7,5 | 5,2 | | | | | | | |
| | | 12 110 | 29 20,2 | 2,5 | 6,5 | 4,5 | | | | | | | |
| | | 13 120 | 30 40,4 | 2,0 | 6,0 | 4,0 | | | | | | | |
| | | 14 130 | 32 0,5 | 1,5 | 5,5 | 3,5 | | | | | | | |
| | | 15 140 | 33 20,7 | 1,0 | 5,0 | 3,0 | | | | | | | |
| Frey. Lm. Fb. | à 1 ^h 10' | 1 0 | 6 5 36,0 | 20,0 | 23,5 | 21,7 | | | | | | | 799,4 |
| | | 2 10 | 6 56,0 | 16,0 | 19,5 | 17,7 | | | | | | | |
| | | 3 20 | 8 17,0 | 14,0 | 17,0 | 15,5 | | | | | | | |
| | | 4 30 | 9 37,0 | 11,5 | 14,0 | 12,7 | | | | | | | |
| | | 5 40 | 10 57,5 | 9,5 | 12,0 | 10,7 | | | | | | | |
| | | 6 50 | 12 17,3 | 8,0 | 11,5 | 9,7 | | | | | | | |
| | | 7 60 | 13 37,5 | 7,0 | 10,5 | 8,7 | | | | | | | |
| | | 8 70 | 14 58,0 | 5,0 | 8,8 | 6,9 | | | | | | | |
| | | 9 80 | 16 17,0 | 4,5 | 8,0 | 6,2 | | | | | | | |
| | | 10 90 | 17 37,0 | 3,5 | 7,0 | 5,2 | | | | | | | |
| | | 11 100 | 18 57,3 | 2,0 | 5,5 | 3,7 | | | | | | | |
| | | 12 110 | 20 17,0 | 1,5 | 5,0 | 3,2 | | | | | | | |
| | | 13 120 | 21 37,3 | 1,0 | 4,5 | 2,7 | | | | | | | |
| | | 14 130 | 22 56,7 | 0,5 | 4,0 | 2,3 | | | | | | | |
| Frey. Fb. G. | à 1 ^h 30' | 1 0 | 6 28 49,2 | 18,0 | 21,0 | 19,5 | | | | | | | 799,5 |
| | | 2 10 | 30 10,1 | 16,0 | 19,0 | 17,5 | | | | | | | |
| | | 3 20 | 31 30,0 | 14,0 | 17,0 | 15,5 | | | | | | | |
| | | 4 30 | 32 50,6 | 13,0 | 16,0 | 14,5 | | | | | | | |
| | | 5 40 | 34 11,0 | 11,0 | 14,0 | 12,5 | | | | | | | |
| | | 6 50 | 35 31,2 | 10,0 | 13,0 | 11,5 | | | | | | | |
| | | 7 60 | 36 51,9 | 8,5 | 11,5 | 10,0 | | | | | | | |
| | | 8 70 | 38 12,2 | 7,0 | 10,0 | 8,5 | | | | | | | |
| | | 9 80 | 39 38,5 | 6,8 | 9,3 | 7,8 | | | | | | | |
| | | 10 90 | 40 52,7 | 5,5 | 8,5 | 7,0 | | | | | | | |
| | | 11 100 | 42 13,0 | 4,5 | 7,5 | 6,0 | | | | | | | |
| | | 12 110 | 43 33,4 | 3,5 | 7,0 | 5,2 | | | | | | | |
| | | 13 120 | 44 53,6 | 2,5 | 6,0 | 4,2 | | | | | | | |
| | | 14 130 | 46 13,8 | 2,0 | 5,5 | 3,7 | | | | | | | |
| | | 15 140 | 47 34,0 | 1,5 | 5,0 | 3,2 | | | | | | | |
| | | 16 150 | 48 54,3 | 1,0 | 4,5 | 2,7 | | | | | | | |

§ VII. — Coupang (île Timor).

| OBSERVATEURS. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 ET 8. | | | | | | | | | | | | REMARQUES. | |
|---------------------|---|--|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|--|--|----------------------------|-----------------------------------|---|--|
| | | n° des oscillations. | HEURE du chronomètre. | AMPLITUDES. | | | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | |
| | | | | En parties | | | Moyenne-moyenne | | | | | réelles. | infinim. petites. (Moyenne) | | |
| Frey. Lm. Dp. | 1818. Octob. 19, à 8 ^h 0' matin. | 1 0 | 11 ^h 8' 28",3 | 23 ^p ,0 | 23 ^p ,0 | 23 ^p ,0 | | | | | | | | Température = 29 ⁴ ,1. Aiguille n° 7. | |
| | | 2 10 | 9 41,9 | 21,6 | 21,6 | 21,6 | 22 ^p ,3 | 18 ^o ,5 | 1,006 | | | | | | |
| | | 3 20 | 10 55,0 | 19,5 | 19,5 | 19,5 | 20,5 | 17,1 | 1,006 | | | | | | |
| | | 4 30 | 12 8,6 | 18,0 | 18,0 | 18,0 | 18,7 | 15,7 | 1,005 | | | | | | |
| | | 5 40 | 13 22,0 | 17,0 | 17,0 | 17,0 | 17,5 | 14,8 | 1,004 | | | | | | |
| | | 6 50 | 14 34,4 | 15,8 | 15,8 | 15,8 | 16,4 | 13,8 | 1,004 | | | | | | |
| | | 7 60 | 15 47,8 | 14,8 | 15,0 | 14,9 | 15,3 | 12,9 | 1,003 | | | | | | |
| | | 8 70 | 17 0,9 | 13,0 | 13,4 | 13,2 | 14,0 | 11,9 | 1,003 | | | | | | |
| | | 9 80 | 18 14,0 | 12,2 | 12,5 | 12,3 | 12,7 | 10,8 | 1,002 | | | | | | |
| | | 10 90 | 19 26,8 | 11,7 | 11,8 | 11,7 | 12,0 | 10,2 | 1,002 | | | | | | |
| | | 11 100 | 20 40,2 | 11,0 | 11,2 | 11,1 | 11,4 | 9,7 | 1,002 | 10,037 | 12 11",9 | 729",2 | | | |
| | | 12 110 | 21 52,9 | 10,4 | 10,6 | 10,5 | 10,8 | 9,2 | 1,002 | 10,038 | 12 11,0 | 728",6 | | | |
| | | 13 120 | 23 5,9 | 9,8 | 10,0 | 9,9 | 10,2 | 8,8 | 1,002 | 10,029 | 12 10,9 | 728",8 | | | |
| | | 14 130 | 24 18,6 | 9,0 | 9,3 | 9,1 | 9,5 | 8,1 | 1,001 | 10,025 | 12 10,0 | 728",2 | | | |
| | | 15 140 | 25 31,8 | 8,3 | 8,7 | 8,5 | 8,8 | 7,5 | 1,001 | 10,022 | 12 9,8 | 728",2 | | | |
| | | 16 150 | 26 44,4 | 7,7 | 8,0 | 7,8 | 8,1 | 7,0 | 1,001 | 10,019 | 12 10,0 | 728",6 | | | |
| | | 17 160 | 27 57,4 | 7,1 | 7,4 | 7,2 | 7,5 | 6,4 | 1,001 | 10,017 | 12 9,6 | 728",4 | | | |
| | | 18 170 | 29 10,2 | 6,5 | 6,8 | 6,6 | 6,9 | 5,9 | 1,001 | 10,015 | 12 9,3 | 728",2 | | | |
| | | 19 180 | 30 23,3 | 6,0 | 6,4 | 6,2 | 6,4 | 5,5 | 1,001 | 10,014 | 12 9,3 | 728",3 | | | |
| | | 20 190 | 31 36,2 | 5,7 | 6,0 | 5,8 | 6,0 | 5,2 | 1,001 | 10,013 | 12 9,4 | 728",5 | | | |
| | | 21 200 | 32 49,2 | 5,3 | 5,6 | 5,4 | 5,6 | 4,8 | 1,001 | 10,012 | 12 9,0 | 728",1 | | | |
| | | 22 210 | 34 2,1 | 5,0 | 5,3 | 5,1 | 5,2 | 4,5 | 1,000 | 10,010 | 12 9,2 | 728",5 | | | |
| | | 23 220 | 35 15,0 | 4,8 | 5,1 | 4,9 | 5,0 | 4,3 | 1,000 | 10,008 | 12 9,1 | 728",5 | | | |
| | | 24 230 | 36 28,0 | 4,5 | 4,8 | 4,6 | 4,7 | 4,0 | 1,000 | 10,007 | 12 9,4 | 728",9 | | | |
| | | 25 240 | 37 40,9 | 4,1 | 4,4 | 4,2 | 4,4 | 3,7 | 1,000 | 10,006 | 12 9,1 | 728",7 | | | |
| | | 26 250 | 38 53,8 | 3,8 | 4,1 | 3,9 | 4,0 | 3,4 | 1,000 | 10,005 | 12 9,4 | 729,0 | | | |
| | | | | | | | | | | | | 728,5 | | | |
| Frey. Lm. Dp. | Octob. 19, à 9 ^h 0' matin. | 1 0 | 8 37,2 | 22,5 | 23,0 | 22,7 | | | | | | | | Température = 32 ⁴ ,6. Aiguille n° 8. | |
| | | 2 10 | 9 50,8 | 21,0 | 21,5 | 21,2 | 21,9 | 18,2 | 1,006 | | | | | | |
| | | 3 20 | 11 4,1 | 19,0 | 19,7 | 10,3 | 20,1 | 16,8 | 1,006 | | | | | | |
| | | 4 30 | 12 17,4 | 18,0 | 18,5 | 18,5 | 18,9 | 15,8 | 1,005 | | | | | | |
| | | 5 40 | 13 30,3 | 16,5 | 17,0 | 16,7 | 17,6 | 14,9 | 1,004 | | | | | | |
| | | 6 50 | 14 43,9 | 15,6 | 16,0 | 15,8 | 16,2 | 13,7 | 1,004 | | | | | | |
| | | 7 60 | 15 57,1 | 14,2 | 14,8 | 14,5 | 15,1 | 12,8 | 1,003 | | | | | | |
| | | 8 70 | 17 10,1 | 13,0 | 13,5 | 13,2 | 13,8 | 11,7 | 1,003 | | | | | | |
| | | 9 80 | 18 23,4 | 12,0 | 12,7 | 12,3 | 12,7 | 10,8 | 1,002 | | | | | | |
| | | 10 90 | 19 36,4 | 11,0 | 11,5 | 11,2 | 11,7 | 10,0 | 1,002 | | | | | | |
| | | 11 100 | 20 49,5 | 10,3 | 11,0 | 10,6 | 10,9 | 9,3 | 1,002 | 10,037 | 12 12,3 | 729,6 | | | |
| | | 12 110 | 22 2,5 | 9,8 | 10,6 | 10,2 | 10,4 | 8,9 | 1,002 | 10,033 | 12 11,7 | 729,3 | | | |
| | | 13 120 | 23 15,7 | 9,0 | 9,8 | 9,4 | 9,8 | 8,3 | 1,001 | 10,028 | 12 11,6 | 729,6 | | | |
| | | 14 130 | 24 28,8 | 8,3 | 8,8 | 8,5 | 8,9 | 7,6 | 1,001 | 10,024 | 12 11,4 | 729,6 | | | |
| | | 15 140 | 25 41,9 | 7,6 | 8,0 | 7,8 | 8,1 | 7,0 | 1,001 | 10,021 | 12 11,6 | 730,1 | | | |
| | | 16 150 | 26 54,9 | 7,0 | 7,5 | 7,2 | 7,5 | 6,4 | 1,001 | 10,018 | 12 11,0 | 729,7 | | | |
| | | 17 160 | 28 7,8 | 6,6 | 7,0 | 6,8 | 7,0 | 6,0 | 1,001 | 10,016 | 12 10,7 | 729,5 | | | |
| | | 18 170 | 29 20,8 | 6,1 | 6,5 | 6,3 | 6,5 | 5,6 | 1,001 | 10,014 | 12 10,7 | 729,7 | | | |
| | | 19 180 | 30 34,2 | 5,7 | 6,0 | 5,8 | 6,0 | 5,2 | 1,001 | 10,013 | 12 10,8 | 729,9 | | | |
| | | 20 190 | 31 47,2 | 5,1 | 5,6 | 5,3 | 5,5 | 4,7 | 1,001 | 10,012 | 12 10,8 | 729,9 | | | |
| | | 21 200 | 33 0,2 | 4,7 | 5,1 | 4,9 | 5,1 | 4,4 | 1,000 | 10,010 | 12 10,7 | 730,0 | | | |
| | | 22 210 | 34 13,1 | 4,3 | 4,7 | 4,5 | 4,7 | 3,9 | 1,000 | 10,008 | 12 10,6 | 730,0 | | | |
| | | 23 220 | 35 26,2 | 4,0 | 4,3 | 4,1 | 4,3 | 3,6 | 1,000 | 10,007 | 12 10,5 | 730,0 | | | |
| | | 24 230 | 36 39,0 | 3,8 | 4,0 | 3,9 | 4,0 | 3,4 | 1,000 | 10,006 | 12 10,2 | 730,1 | | | |
| | | 25 240 | 37 52,0 | 3,6 | 3,8 | 3,7 | 3,8 | 3,2 | 1,000 | 10,005 | 12 10,1 | 729,7 | | | |
| | | 26 250 | 39 5,0 | 3,0 | 3,3 | 3,1 | 3,4 | 2,9 | 1,000 | 10,004 | 12 10,1 | 729,8 | | | |
| | | 27 260 | 40 18,0 | 2,8 | 3,0 | 2,9 | 3,0 | 2,6 | 1,090 | 10,003 | 12 10,2 | 730,0 | | | |
| | | | | | | | | | | | | 729,8 | | | |

VOYAGE AUTOEUR DU MONDE.

§ II. A Sainte-Croix (île Ténériffe).

| OBSERVATEUR | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | | | | | REMARQUES. | |
|--------------|--|--|---------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--|--|-------------------------------|---------------|----------|------------------------------------|----------------------|
| | | NUMBRS D'ORDRE. | OSCILLATIONS. | HEURE du chronomètre. | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | | |
| | | | | | En parties | | Moyenne-moyenne | | | | en parties. | en degrés. | réelles. | infinim. petites. (Moyennes) | |
| Frey. Dp. | 1817. Octobre 26, 1 ^h 30' soir. | 1 | 0 | 2 ^h 12' 20",3 | 19 ^p ,0 | 13 ^p ,0 | 16 ^p ,0 | | | | | | | | Température = 23°,0. |
| | | 2 | 10 | 13 5,5 | 18,0 | 12,0 | 15,0 | 15 ^p ,5 | 21 ^p ,5 | 1,009 | | | | | |
| | | 3 | 20 | 13 50,8 | 17,0 | 11,0 | 14,0 | 14,5 | 20,3 | 1,008 | | | | | |
| | | 4 | 30 | 14 36,4 | 15,0 | 9,5 | 12,2 | 13,2 | 18,4 | 1,006 | | | | | |
| | | 5 | 40 | 15 22,0 | 14,0 | 9,0 | 11,5 | 11,8 | 16,6 | 1,006 | | | | | |
| | | 6 | 50 | 16 7,0 | 13,5 | 8,5 | 11,0 | 11,2 | 15,9 | 1,005 | | | | | |
| | | 7 | 60 | 16 52,5 | 10,7 | 6,5 | 8,6 | 9,8 | 13,9 | 1,004 | | | | | |
| | | 8 | 70 | 17 37,3 | 10,7 | 7,7 | 9,2 | 8,9 | 12,7 | 1,003 | | | | | |
| | | 9 | 80 | 18 22,4 | 10,2 | 5,5 | 7,8 | 8,5 | 12,2 | 1,003 | | | | | |
| | | 10 | 90 | 19 7,7 | 10,0 | 5,0 | 7,5 | 7,7 | 11,0 | 1,002 | | | | | |
| | | 11 | 100 | 19 53,0 | 9,7 | 4,5 | 7,1 | 7,3 | 10,5 | 1,002 | 10,048 | 452",7 | 450",5 | | |
| | | 12 | 110 | 20 37,8 | 9,5 | 4,2 | 6,8 | 7,0 | 10,1 | 1,002 | 10,041 | 452,3 | 450,4 | | |
| | | 13 | 120 | 21 23,3 | 9,0 | 3,5 | 6,2 | 6,5 | 9,4 | 1,002 | 10,035 | 452,5 | 450,9 | | |
| | | 14 | 130 | 22 8,2 | 8,5 | 2,5 | 5,5 | 5,8 | 8,2 | 1,001 | 10,030 | 451,8 | 450,4 | | |
| | | 15 | 140 | 22 53,5 | 8,0 | 2,2 | 5,1 | 5,3 | 7,6 | 1,001 | 10,025 | 451,5 | 450,4 | | |
| | | 16 | 150 | 23 39,0 | 7,5 | 2,2 | 4,8 | 5,0 | 7,2 | 1,001 | 10,021 | 452,0 | 451,0 | | |
| | | 17 | 160 | 24 24,0 | 6,7 | 2,0 | 4,3 | 4,6 | 6,6 | 1,001 | 10,018 | 451,5 | 450,7 | | |
| | | 18 | 170 | 25 8,5 | 6,5 | 1,7 | 4,1 | 4,2 | 6,1 | 1,001 | 10,016 | 451,2 | 450,5 | | |
| | | 19 | 180 | 25 54,0 | 6,2 | 1,5 | 3,8 | 4,0 | 5,8 | 1,001 | 10,014 | 451,6 | 451,0 | | |
| | | 20 | 190 | 26 38,7 | 6,0 | 1,2 | 3,6 | 3,7 | 5,3 | 1,001 | 10,013 | 451,0 | 450,4 | | |
| | | 21 | 200 | 27 24,2 | 5,7 | 1,0 | 3,4 | 3,5 | 5,1 | 1,001 | 10,012 | 451,2 | 450,7 | | |
| | | 22 | 210 | 28 9,6 | 5,5 | 0,7 | 3,1 | 3,2 | 4,7 | 1,001 | 10,011 | 451,8 | 451,3 | | |
| | | 23 | 220 | 28 54,3 | 5,2 | 0,5 | 2,8 | 3,0 | 4,4 | 1,000 | 10,009 | 451,0 | 450,6 | | |
| | | 24 | 230 | 29 39,6 | 5,0 | 0,2 | 2,6 | 2,7 | 3,1 | 1,000 | 10,008 | 451,4 | 451,0 | | |
| | | | | | | | | | | | 450,7 | | | | |
| Frey. Dp. | Octobre 26, à 2 ^h , 0' soir. | 1 | 0 | 2 42 53,0 | 12,0 | 12,0 | 12,0 | | | | | | | | Température = 23°,2. |
| | | 2 | 10 | 43 37,8 | 11,2 | 11,2 | 11,2 | 11,6 | 16,4 | 1,005 | | | | | |
| | | 3 | 20 | 44 23,3 | 10,0 | 10,0 | 10,0 | 10,6 | 15,0 | 1,004 | | | | | |
| | | 4 | 30 | 45 9,6 | 9,2 | 9,2 | 9,2 | 9,6 | 13,7 | 1,004 | | | | | |
| | | 5 | 40 | 45 53,9 | 8,5 | 8,5 | 8,5 | 8,8 | 12,5 | 1,003 | | | | | |
| | | 6 | 50 | 46 39,3 | 7,7 | 7,7 | 7,7 | 8,1 | 11,6 | 1,003 | | | | | |
| | | 7 | 60 | 47 24,6 | 7,0 | 7,0 | 7,0 | 7,3 | 10,5 | 1,002 | | | | | |
| | | 8 | 70 | 48 9,3 | 6,5 | 6,2 | 6,3 | 6,7 | 9,6 | 1,002 | | | | | |
| | | 9 | 80 | 48 54,6 | 6,2 | 5,7 | 6,0 | 6,2 | 9,0 | 1,002 | | | | | |
| | | 10 | 90 | 49 40,0 | 6,0 | 5,5 | 5,7 | 5,8 | 8,2 | 1,001 | | | | | |
| | | 11 | 100 | 50 25,0 | 5,7 | 5,2 | 5,5 | 5,6 | 8,0 | 1,001 | 10,027 | 7 32,0 | 450,8 | | |
| | | 12 | 110 | 51 10,6 | 5,5 | 5,0 | 5,2 | 5,3 | 7,6 | 1,001 | 10,023 | 7 32,8 | 451,8 | | |
| | | 13 | 120 | 51 55,4 | 5,2 | 4,5 | 4,8 | 5,0 | 7,2 | 1,001 | 10,020 | 7 32,1 | 451,2 | | |
| | | 14 | 130 | 52 40,2 | 5,0 | 4,2 | 4,6 | 4,7 | 6,7 | 1,001 | 10,017 | 7 30,6 | 449,8 | | |
| | | 15 | 140 | 53 25,6 | 4,7 | 4,0 | 4,3 | 4,5 | 6,5 | 1,001 | 10,015 | 7 31,7 | 451,0 | | |
| | | 16 | 150 | 54 10,8 | 4,5 | 3,7 | 4,1 | 4,2 | 6,1 | 1,001 | 10,013 | 7 31,5 | 450,9 | | |
| | | 17 | 160 | 54 56,0 | 4,2 | 3,5 | 3,8 | 4,0 | 5,8 | 1,001 | 10,012 | 7 31,4 | 450,8 | | |
| | | 18 | 170 | 55 40,8 | 4,0 | 3,2 | 3,6 | 3,7 | 5,3 | 1,001 | 10,011 | 7 31,5 | 451,0 | | |
| | | 19 | 180 | 56 26,0 | 3,7 | 3,0 | 3,3 | 3,5 | 5,1 | 1,001 | 10,010 | 7 31,4 | 450,9 | | |
| | | 20 | 190 | 57 11,0 | 3,5 | 2,7 | 3,1 | 3,2 | 4,7 | 1,001 | 10,010 | 7 31,0 | 450,5 | | |
| | | 21 | 200 | 57 56,6 | 3,2 | 2,5 | 2,8 | 3,0 | 4,4 | 1,000 | 10,009 | 7 31,6 | 451,2 | | |
| | | 22 | 210 | 58 41,2 | 3,0 | 2,2 | 2,6 | 2,7 | 3,8 | 1,000 | 10,008 | 7 30,6 | 450,2 | | |
| | | 23 | 220 | 59 26,3 | 2,7 | 2,0 | 2,3 | 2,5 | 3,6 | 1,000 | 10,007 | 7 30,9 | 450,6 | | |
| | | | | | | | | | | | 450,8 | | | | |

§ III. — A Rio de Janeiro (1^{re} relâche).

| OBSERVATEUR. | DATES et HEURES. | SÉRIES D'ORDRE. oscillations. | HEURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 ET 8. | | | | | | | | REMARQUES. | |
|--------------|------------------------|----------------------------------|-----------------------------|--|--------------------|--------------------|--------------------|---|--|-------------------------------|---|---|--|
| | | | | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | |
| | | | | En parties | | Moyenne-moyenne | | | | réelles. | infim. petites. (Moyennes) | | |
| | | | | à gauche. | à droite. | Moyenn. | en parties. | en degrés. | pour cent oscillat. | | | | |
| Frey. Dp. | 1817. | 1 0 | 7 ^h 45' 32",0 | 15 ^p ,0 | 15 ^p ,0 | 15 ^p ,0 | 14 ^p ,2 | 12 ^o ,1 | 1,003 | | | Pendant cette observation le temps était orangeux, et l'on entendait le tonnerre gronder dans le N. O. Température = 23 ^d ,0. Aiguille n° 7. | |
| | Décem. | 2 10 | 46 50,0 | 13,5 | 13,5 | 13,5 | 14,2 | 10,8 | 1,002 | | | | |
| | 23, | 3 20 | 48 7,5 | 12,0 | 12,0 | 12,0 | 12,7 | 9,8 | 1,002 | | | | |
| | à 3 ^h 30' | 4 30 | 49 25,0 | 11,0 | 11,0 | 11,0 | 11,5 | 9,8 | 1,002 | | | | |
| | soir. | 5 40 | 50 43,0 | 9,5 | 9,5 | 9,5 | 10,2 | 8,8 | 1,002 | | | | |
| | | 6 50 | 52 1,0 | 8,0 | 8,0 | 8,0 | 8,7 | 7,5 | 1,001 | | | | |
| | | 7 60 | 53 18,5 | 7,0 | 7,0 | 7,0 | 7,5 | 6,4 | 1,001 | | | | |
| | | 8 70 | 54 36,0 | 6,5 | 6,5 | 6,5 | 6,7 | 5,8 | 1,001 | | | | |
| | | 9 80 | 55 53,5 | 6,0 | 6,0 | 6,0 | 6,2 | 5,4 | 1,001 | | | | |
| | | 10 90 | 57 11,0 | 5,5 | 5,5 | 5,5 | 5,7 | 4,9 | 1,001 | | | | |
| | | 11 100 | 58 29,0 | 5,0 | 5,0 | 5,0 | 5,2 | 4,5 | 1,001 | 10,015 | 12'57",0 | 775,8 | |
| | | 12 110 | 59 46,8 | 4,5 | 4,5 | 4,5 | 4,7 | 4,0 | 1,000 | 10,012 | 12 56,8 | 775,9 | |
| | | 13 120 | 8 1 4,0 | 4,0 | 4,0 | 4,0 | 4,2 | 3,6 | 1,000 | 10,010 | 12 56,5 | 775,7 | |
| | | 14 130 | 2 21,0 | 4,5 | 4,5 | 4,5 | 4,2 | 3,6 | 1,000 | 10,008 | 12 56,0 | 775,4 | |
| | | 15 140 | 3 39,0 | 3,7 | 3,7 | 3,7 | 4,1 | 3,5 | 1,000 | 10,006 | 12 56,0 | 775,5 | |
| | | 16 150 | 4 57,0 | 3,3 | 3,3 | 3,3 | 3,5 | 3,0 | 1,000 | 10,005 | 12 56,0 | 775,6 | |
| | | 17 160 | 6 14,5 | 3,0 | 3,0 | 3,0 | 3,2 | 2,8 | 1,000 | 10,004 | 12 56,0 | 775,7 | |
| | | 18 170 | 7 32,5 | 2,5 | 2,5 | 2,5 | 2,7 | 2,3 | 1,000 | 10,003 | 12 56,5 | 776,3 | |
| | | 19 180 | 8 50,0 | 2,0 | 2,0 | 2,0 | 2,2 | 1,9 | 1,000 | 10,002 | 12 56,5 | 776,3 | |
| | | 20 190 | 10 7,5 | 2,0 | 2,0 | 2,0 | 2,0 | 1,7 | 1,000 | 10,001 | 12 56,5 | 776,4 | |
| | | | | | | | | | | | | 775,9 | |
| Lm. Ld. | Décem. | 1 0 | 11 40 7,0 | 16,5 | 16,0 | 16,2 | 14,3 | 12,1 | 1,003 | | Température = 24 ^d ,1. Aiguille n° 8. | | |
| | 24, | 2 10 | 41 24,0 | 12,0 | 13,0 | 12,5 | 14,3 | 12,1 | 1,003 | | | | |
| | à 8 ^h 00' | 3 20 | 42 41,0 | 11,0 | 10,6 | 10,8 | 11,6 | 9,9 | 1,002 | | | | |
| | matin. | 4 30 | 43 58,0 | 8,0 | 9,0 | 8,5 | 9,6 | 8,2 | 1,001 | | | | |
| | | 5 40 | 45 15,0 | 7,5 | 8,0 | 7,7 | 8,1 | 7,0 | 1,001 | | | | |
| | | 6 50 | 46 31,5 | 6,0 | 6,5 | 6,2 | 6,9 | 5,9 | 1,001 | | | | |
| | | 7 60 | 47 48,0 | 6,0 | 5,5 | 5,7 | 5,9 | 5,0 | 1,001 | | | | |
| | | 8 70 | 49 5,0 | 4,8 | 4,5 | 4,6 | 5,1 | 4,4 | 1,000 | | | | |
| | | 9 80 | 50 21,0 | 4,0 | 3,7 | 3,8 | 4,2 | 3,6 | 1,000 | | | | |
| | | 10 90 | 51 38,2 | 3,2 | 3,0 | 3,1 | 3,4 | 2,9 | 1,000 | | | | |
| | | 11 100 | 52 54,5 | 3,0 | 2,8 | 2,9 | 3,0 | 2,6 | 1,000 | 10,009 | 12 47,5 | 766,8 | |
| | | 12 110 | 54 11,5 | 2,8 | 2,5 | 2,6 | 2,7 | 2,3 | 1,000 | 10,006 | 12 47,5 | 767,0 | |
| | | 13 120 | 55 28,0 | 2,5 | 2,2 | 2,3 | 2,4 | 2,0 | 1,000 | 10,004 | 12 47,0 | 766,7 | |
| | | 14 130 | 56 44,5 | 2,0 | 2,0 | 2,0 | 2,1 | 1,8 | 1,000 | 10,003 | 12 46,5 | 766,3 | |
| | | | | | | | | | | | | 766,7 | |
| Lm. Lb. | Décem. | 1 0 | 0 34 11,0 | 22,0 | 22,0 | 22,0 | | Température = 26 ^d ,2. | | | | | |
| | 24, | 2 10 | 35 28,5 | 18,5 | 18,9 | 18,7 | | | | | | | |
| | à 8 ^h 50' | 3 20 | 36 46,0 | 16,0 | 15,5 | 15,7 | | | | | | | |
| | matin. | 4 30 | 38 2,5 | 13,0 | 13,0 | 13,0 | | | | | | | |
| | | 5 40 | 39 20,0 | 11,5 | 11,2 | 11,3 | | | | | | | |
| | | 6 50 | 40 37,0 | 9,8 | 9,5 | 9,6 | | | | | | | |
| | | 7 60 | 41 53,5 | 8,5 | 8,2 | 8,3 | | | | | | | |
| | | 8 70 | 43 10,5 | 7,0 | 6,5 | 6,7 | | | | | | | |
| | | 9 80 | 44 27,5 | 5,6 | 5,3 | 5,4 | | | | | | | |
| | | 10 90 | 45 44,0 | 5,0 | 5,0 | 5,0 | | | | | | | |
| | | 11 100 | 47 1,0 | 4,0 | 4,0 | 4,0 | | | | | | | |
| | | 12 110 | 48 18,0 | 3,2 | 3,2 | 3,2 | | | | | | | |
| | | 13 120 | 49 34,5 | 2,9 | 2,9 | 2,9 | | | | | | | |
| | | 14 130 | 50 51,0 | 2,8 | 2,8 | 2,8 | | | | | | | |
| | | 15 140 | 52 8,0 | 2,5 | 2,6 | 2,5 | | | | | | | |
| | | 16 150 | 53 20,0 | 2,4 | 2,5 | 2,4 | | | | | | | |
| | | 17 160 | 54 42,0 | 2,4 | 2,3 | 2,3 | | | | | | | |
| | | 18 170 | 55 59,0 | 2,3 | 2,0 | 2,1 | | | | | | | |
| | | | | | | | | | | | | 768,2 | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 8 ET 9. | | | | | | | | | | | | REMARQUES. | |
|---------------|----------------------|--|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|---------|-------------------|----------------------------|-------------|------------|--|
| | | Nombre d'oscillations | Heure du chronomètre. | AMPLITUDES. | | | | | | CORREC- | SOMME des correc- | DURÉE de cent oscillations | | | |
| | | | | En parties | | Moyenne-moyenne | | en parties. | en degrés. | | | réelles. | inférieure. | | |
| Lm. Ld. | 1817. | 1 0 | 1 ^h 8' 51",0 | 20 ^p ,8 | 21 ^p ,0 | 20 ^p ,9 | | | | | | | | | |
| | Décem. | 2 10 | 10 8,5 | 16,8 | 17,2 | 17,0 | 18 ^p ,9 | 15 ^p ,8 | 1,005 | | | | | | |
| | 24, | 3 20 | 11 26,0 | 14,0 | 14,2 | 14,1 | 15,5 | 13,1 | 1,003 | | | | | | |
| | à 9 ^h 30" | 4 30 | 12 42,5 | 12,0 | 12,3 | 12,1 | 13,1 | 11,2 | 1,002 | | | | | | |
| | matin. | 5 40 | 13 59,5 | 10,0 | 10,0 | 10,0 | 11,0 | 9,4 | 1,002 | | | | | | |
| | | 6 50 | 15 16,0 | 8,5 | 8,8 | 8,6 | 9,3 | 7,9 | 1,001 | | | | | | |
| | | 7 60 | 16 33,0 | 7,8 | 8,0 | 7,9 | 8,2 | 7,1 | 1,001 | | | | | | |
| | | 8 70 | 17 49,7 | 6,2 | 6,3 | 6,2 | 7,0 | 6,0 | 1,001 | | | | | | |
| | | 9 80 | 19 6,5 | 5,0 | 5,3 | 5,1 | 5,6 | 4,8 | 1,001 | | | | | | |
| | | 10 90 | 20 23,5 | 4,8 | 4,8 | 4,8 | 4,9 | 4,1 | 1,000 | | | | | | |
| | | 11 100 | 21 40,0 | 3,8 | 3,9 | 3,8 | 4,3 | 3,6 | 1,000 | 10,016 | 12'40",0 | 767",8 | | | |
| | | 12 110 | 22 56,0 | 3,2 | 3,2 | 3,2 | 3,5 | 3,0 | 1,000 | 10,011 | 12 47,5 | 766",7 | | | |
| | | 13 120 | 24 13,0 | 2,7 | 2,7 | 2,7 | 2,9 | 2,4 | 1,000 | 10,008 | 12 47,0 | 766",4 | | | |
| | | 14 130 | 25 29,8 | 2,3 | 2,3 | 2,3 | 2,5 | 2,1 | 1,000 | 10,006 | 12 47,3 | 766",8 | | | |
| | | | | | | | | | | | | 766,9 | | | |
| Frey. Dp. | Décem. | 1 0 | 3 14 4,0 | 15,5 | 15,5 | 15,5 | | | | | | | | | |
| | 28 , | 2 10 | 14 44,3 | 13,5 | 13,5 | 13,5 | 14,5 | 12,3 | 1,003 | | | | | | |
| | à midi. | 3 20 | 15 24,6 | 12,0 | 12,0 | 12,0 | 12,7 | 10,8 | 1,002 | | | | | | |
| | | 4 30 | 16 5,0 | 10,0 | 10,0 | 10,0 | 11,0 | 9,4 | 1,002 | | | | | | |
| | | 5 40 | 16 45,3 | 9,0 | 9,0 | 9,0 | 9,5 | 8,1 | 1,001 | | | | | | |
| | | 6 50 | 17 25,6 | 8,0 | 7,8 | 7,9 | 8,4 | 7,2 | 1,001 | | | | | | |
| | | 7 60 | 18 6,0 | 7,0 | 6,5 | 6,7 | 7,3 | 6,2 | 1,001 | | | | | | |
| | | 8 70 | 18 46,0 | 5,8 | 5,0 | 5,4 | 6,0 | 5,2 | 1,001 | | | | | | |
| | | 9 80 | 19 26,3 | 5,2 | 4,7 | 4,9 | 5,2 | 4,5 | 1,000 | | | | | | |
| | | 10 90 | 20 7,0 | 4,5 | 3,8 | 4,1 | 4,5 | 3,8 | 1,000 | | | | | | |
| | | 11 100 | 20 47,3 | 4,0 | 3,5 | 3,7 | 3,9 | 3,3 | 1,000 | 10,010 | 6 43,3 | 402,9 | | | |
| | | 12 110 | 21 27,3 | 3,5 | 3,0 | 3,2 | 3,4 | 2,9 | 1,000 | 10,008 | 6 43,0 | 402,7 | | | |
| | | 13 120 | 22 7,6 | 3,2 | 2,7 | 2,9 | 3,0 | 2,6 | 1,000 | 10,006 | 6 43,0 | 402,8 | | | |
| | | 14 130 | 22 48,0 | 2,8 | 2,3 | 2,5 | 2,7 | 2,3 | 1,000 | 10,004 | 6 43,0 | 402,8 | | | |
| | | 15 140 | 23 27,3 | 2,5 | 2,0 | 2,2 | 2,4 | 2,0 | 1,000 | 10,003 | 6 42,0 | 401,9 | | | |
| | | | | | | | | | | | | 402,6 | | | |
| Frey. Dp. | Décem. | 1 0 | 3 38 3,0 | 20,0 | 20,7 | 20,3 | | | | | | | | | |
| | 28 , | 2 10 | 38 43,3 | 18,0 | 19,0 | 18,5 | 19,4 | 16,2 | 1,005 | | | | | | |
| | à midi. | 3 20 | 39 24,0 | 16,0 | 17,0 | 16,5 | 17,5 | 14,8 | 1,004 | | | | | | |
| | | 4 30 | 40 4,6 | 14,0 | 15,0 | 14,5 | 15,5 | 13,1 | 1,003 | | | | | | |
| | | 5 40 | 40 45,0 | 12,5 | 13,5 | 13,0 | 13,7 | 11,7 | 1,003 | | | | | | |
| | | 6 50 | 41 25,0 | 11,0 | 12,0 | 11,5 | 12,2 | 10,4 | 1,002 | | | | | | |
| | | 7 60 | 42 5,6 | 9,5 | 10,5 | 10,0 | 10,7 | 9,2 | 1,002 | | | | | | |
| | | 8 70 | 42 45,3 | 8,2 | 9,2 | 8,7 | 9,3 | 7,9 | 1,001 | | | | | | |
| | | 9 80 | 43 25,8 | 7,3 | 8,3 | 7,8 | 8,2 | 7,1 | 1,001 | | | | | | |
| | | 10 90 | 44 6,0 | 6,7 | 7,7 | 7,2 | 7,5 | 6,4 | 1,001 | | | | | | |
| | | 11 100 | 44 46,3 | 5,7 | 6,7 | 6,2 | 6,7 | 5,8 | 1,001 | 10,023 | 6 43,3 | 402,4 | | | |
| | | 12 110 | 45 26,6 | 5,2 | 6,3 | 5,7 | 5,9 | 5,0 | 1,001 | 10,019 | 6 43,3 | 402,5 | | | |
| | | 13 120 | 46 6,6 | 4,5 | 5,7 | 5,1 | 5,4 | 4,6 | 1,001 | 10,016 | 6 42,6 | 402,0 | | | |
| | | 14 130 | 46 46,3 | 3,7 | 4,8 | 4,3 | 4,7 | 4,0 | 1,000 | 19,013 | 6 41,7 | 401,2 | | | |
| | | 15 140 | 47 27,3 | 3,5 | 4,5 | 4,0 | 4,1 | 3,5 | 1,000 | 10,010 | 6 42,3 | 401,9 | | | |
| | | 16 150 | 48 7,0 | 3,0 | 4,0 | 3,5 | 3,7 | 3,2 | 1,000 | 10,008 | 6 42,0 | 401,7 | | | |
| | | 17 160 | 48 47,3 | 2,9 | 3,9 | 3,4 | 3,4 | 2,9 | 1,000 | 10,006 | 6 41,7 | 401,5 | | | |
| | | 18 170 | 49 27,9 | 2,7 | 3,7 | 3,2 | 3,3 | 2,8 | 1,000 | 10,005 | 6 42,6 | 402,4 | | | |
| | | 19 180 | 50 7,6 | 2,5 | 3,5 | 3,0 | 3,1 | 2,7 | 1,000 | 10,004 | 6 41,8 | 401,6 | | | |
| | | 20 190 | 50 48,0 | 2,4 | 3,4 | 2,9 | 2,9 | 2,4 | 1,000 | 10,003 | 6 42,0 | 401,9 | | | |
| | | 21 200 | 51 28,0 | 2,2 | 3,2 | 2,7 | 2,8 | 2,3 | 1,000 | 10,002 | 6 41,7 | 401,6 | | | |
| | | 22 210 | 52 8,0 | 2,1 | 3,1 | 2,6 | 2,6 | 2,2 | 1,000 | 10,001 | 6 41,4 | 401,4 | | | |
| | | 23 220 | 52 48,3 | 1,8 | 2,8 | 2,3 | 2,4 | 2,0 | 1,000 | 10,000 | 6 41,7 | 401,7 | | | |
| | | | | | | | | | | | | 401,8 | | | |

S IV. — A Cape-Town (Cap de Bonne-Espérance).

| OBSERVATEUR. | DATES et HEURES. | NOMBRES D'ORDRES. OSCILLATIONS. | HEURE DU CHROMOSCOPE. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 ET 8. | | | | | | | | REMARQUES. | |
|---------------------|--|------------------------------------|-----------------------------|--|--------------------|--------------------|--------------------|--|---|-------------------------------|-----------------------|------------|--|
| | | | | AMPLITUDES. | | | | CORREC- TIONS DÉPEN- DANTES DE L'AMPLI. | SOMME DES CORREC- TIONS POUR CENT OSCILLAT. | DURÉE DE CENT OSCILLATIONS | | | |
| | | | | EN PARTIES | | MOYENNE-MOYENNE | | | | RÉELLES. | INFINIM. (MOYENNE) | | |
| | | | | À GAUCHE. | À DROITE. | MOYENN. | EN PARTIES. | EN DEGRÉS. | | | | | |
| Frey. Lc. Dp. | 1818. Mars 23, à 1 ^h 0' soir. | 1 0 | 0 ^b 23' 29",0 | 22 ^p ,0 | 22 ^p ,5 | 22 ^p ,2 | 21 ^p ,4 | 17°,8 | 1,006 | | | | |
| | | 2 10 | 25 2,3 | 20,5 | 20,7 | 20,6 | 19,6 | 16,4 | 1,005 | | | | |
| | | 3 20 | 26 36,2 | 18,5 | 18,7 | 18,6 | 17,6 | 14,9 | 1,004 | | | | |
| | | 4 30 | 28 10,1 | 16,6 | 16,9 | 16,7 | 17,6 | 13,6 | 1,004 | | | | |
| | | 5 40 | 29 42,0 | 15,5 | 15,6 | 15,5 | 16,1 | 12,5 | 1,002 | | | | |
| | | 6 50 | 31 16,4 | 14,2 | 14,3 | 14,2 | 14,8 | 11,4 | 1,002 | | | | |
| | | 7 60 | 32 49,4 | 12,7 | 12,8 | 12,7 | 13,4 | 10,4 | 1,002 | | | | |
| | | 8 70 | 34 22,5 | 12,0 | 12,0 | 12,0 | 12,3 | 10,4 | 1,002 | | | | |
| | | 9 80 | 35 55,5 | 11,0 | 11,0 | 11,0 | 11,5 | 9,8 | 1,002 | | | | |
| | | 10 90 | 37 29,0 | 10,3 | 10,3 | 10,3 | 10,6 | 9,1 | 1,002 | | | | |
| | | 11 100 | 39 2,5 | 9,5 | 9,4 | 9,4 | 9,8 | 8,3 | 1,002 | 10,031 | 15'33",5 | 930",6 | |
| | | 12 110 | 40 35,6 | 8,7 | 8,5 | 8,6 | 9,0 | 7,7 | 1,001 | 10,026 | 15 33,3 | 930,9 | |
| | | 13 120 | 42 8,6 | 8,0 | 7,8 | 7,9 | 8,2 | 7,1 | 1,001 | 10,022 | 15 32,4 | 930,3 | |
| | | 14 130 | 43 41,7 | 7,5 | 7,2 | 7,3 | 7,6 | 6,5 | 1,001 | 10,019 | 15 31,6 | 929,8 | |
| | | 15 140 | 45 15,0 | 7,0 | 6,8 | 6,9 | 7,1 | 6,1 | 1,001 | 10,016 | 15 33,0 | 931,5 | |
| | | 16 150 | 46 48,0 | 6,5 | 6,3 | 6,4 | 6,6 | 5,7 | 1,001 | 10,015 | 15 31,6 | 930,2 | |
| | | 17 160 | 48 21,0 | 5,9 | 5,7 | 5,8 | 6,1 | 5,3 | 1,001 | 10,014 | 15 31,6 | 930,3 | |
| | | 18 170 | 49 54,0 | 5,5 | 5,3 | 5,4 | 5,6 | 4,8 | 1,001 | 10,013 | 15 31,5 | 930,3 | |
| | | 19 180 | 51 27,0 | 5,0 | 4,8 | 5,9 | 5,1 | 4,4 | 1,000 | 10,011 | 15 31,5 | 930,5 | |
| | | 20 190 | 53 0,5 | 4,8 | 4,5 | 4,6 | 4,7 | 4,0 | 1,000 | 10,009 | 15 31,5 | 930,7 | |
| | | 21 200 | 54 33,0 | 4,5 | 4,2 | 4,3 | 4,4 | 3,7 | 1,000 | 10,007 | 15 30,5 | 930,8 | |
| | | 22 210 | 56 6,3 | 4,2 | 3,9 | 4,0 | 4,1 | 3,5 | 1,000 | 10,006 | 15 30,7 | 930,1 | |
| | | 23 220 | 57 40,0 | 3,9 | 3,7 | 3,8 | 3,9 | 3,3 | 1,000 | 10,005 | 15 31,4 | 930,9 | |
| | | 24 230 | 59 12,4 | 3,7 | 3,4 | 3,5 | 3,6 | 3,1 | 1,000 | 10,004 | 15 30,7 | 930,3 | |
| | | 25 240 | 1 0 45,5 | 3,4 | 3,2 | 3,3 | 3,4 | 2,9 | 1,000 | 10,003 | 15 30,5 | 930,2 | |
| | | 26 250 | 2 18,4 | 3,2 | 3,0 | 3,1 | 3,2 | 2,8 | 1,000 | 10,002 | 15 30,4 | 930,2 | |
| | | 27 260 | 3 52,0 | 3,0 | 2,7 | 2,8 | 2,9 | 2,4 | 1,000 | 10,001 | 15 31,0 | 930,9 | |
| | | 28 270 | 5 24,5 | 2,8 | 2,6 | 2,7 | 2,7 | 2,3 | 1,000 | 10,000 | 15 30,4 | 930,4 | |
| | | 29 280 | 6 57,0 | 2,6 | 2,4 | 2,5 | 2,6 | 2,2 | 1,000 | 10,000 | 15 30,0 | 931,0 | |
| | | 30 290 | 8 31,0 | 2,5 | 2,2 | 2,3 | 2,4 | 2,0 | 1,000 | 10,000 | 15 30,5 | 930,5 | |
| | | | | | | | | | | 930,4 | | | |
| Frey. Lc. Dp. | Mars 23, à 3 ^h 0' soir. | 1 0 | 2 33 13,0 | 22,0 | 21,8 | 21,9 | 20,9 | 17,4 | 1,006 | | | | |
| | | 2 10 | 34 46,5 | 20,0 | 19,8 | 19,9 | 20,9 | 17,4 | 1,006 | | | | |
| | | 3 20 | 36 20,0 | 18,0 | 17,6 | 17,8 | 18,8 | 15,7 | 1,005 | | | | |
| | | 4 30 | 37 53,5 | 16,8 | 16,6 | 16,7 | 17,2 | 14,6 | 1,004 | | | | |
| | | 5 40 | 39 20,7 | 15,2 | 15,0 | 15,1 | 15,9 | 13,4 | 1,003 | | | | |
| | | 6 50 | 41 00,0 | 14,0 | 13,0 | 13,5 | 14,3 | 12,1 | 1,003 | | | | |
| | | 7 60 | 42 33,3 | 13,0 | 12,8 | 12,9 | 13,2 | 11,3 | 1,002 | | | | |
| | | 8 70 | 44 6,7 | 11,8 | 11,6 | 11,7 | 12,3 | 10,4 | 1,002 | | | | |
| | | 9 80 | 45 39,9 | 11,1 | 11,0 | 11,0 | 11,3 | 9,6 | 1,002 | | | | |
| | | 10 90 | 47 13,0 | 10,0 | 9,8 | 9,9 | 10,4 | 8,9 | 1,002 | | | | |
| | | 11 100 | 48 46,3 | 9,3 | 9,1 | 9,2 | 9,5 | 8,1 | 1,001 | 10,030 | 15 33,3 | 930,5 | |
| | | 12 110 | 50 19,5 | 8,8 | 8,6 | 8,7 | 8,9 | 7,6 | 1,001 | 10,025 | 15 33,0 | 930,7 | |
| | | 13 120 | 51 52,5 | 8,2 | 8,0 | 8,1 | 8,4 | 7,2 | 1,001 | 10,021 | 15 32,5 | 930,5 | |
| | | 14 130 | 53 25,6 | 7,6 | 7,5 | 7,5 | 7,8 | 6,7 | 1,001 | 10,018 | 15 32,1 | 930,4 | |
| | | 15 140 | 54 58,9 | 7,0 | 6,9 | 6,9 | 7,2 | 6,2 | 1,001 | 10,016 | 15 32,2 | 930,5 | |
| | | 16 150 | 56 31,5 | 6,6 | 6,5 | 6,5 | 6,7 | 5,8 | 1,001 | 10,014 | 15 31,5 | 930,2 | |
| | | 17 160 | 58 5,8 | 6,2 | 6,0 | 6,1 | 6,3 | 5,4 | 1,001 | 10,013 | 15 31,5 | 930,3 | |
| | | 18 170 | 59 37,6 | 5,8 | 5,6 | 5,7 | 5,9 | 5,0 | 1,001 | 10,012 | 15 30,9 | 929,8 | |
| | | 19 180 | 3 1 11,0 | 5,3 | 5,0 | 5,1 | 5,4 | 4,6 | 1,001 | 10,011 | 15 31,1 | 930,1 | |
| | | 20 190 | 2 44 0 | 5,0 | 4,6 | 4,8 | 4,9 | 4,1 | 1,000 | 10,009 | 15 31,0 | 930,2 | |
| | | 21 200 | 4 17,0 | 4,8 | 4,5 | 4,6 | 4,7 | 4,0 | 1,000 | 10,008 | 15 30,7 | 930,0 | |
| | | 22 210 | 5 50,0 | 4,5 | 4,1 | 4,3 | 4,4 | 3,7 | 1,000 | 10,007 | 15 30,5 | 929,8 | |
| | | 23 220 | 7 23,0 | 4,1 | 3,8 | 3,9 | 4,1 | 3,5 | 1,000 | 10,006 | 15 30,5 | 929,9 | |
| | | 24 230 | 8 56,0 | 3,8 | 3,6 | 3,7 | 3,8 | 3,2 | 1,000 | 10,005 | 15 30,4 | 929,9 | |
| | | 25 240 | 10 29,0 | 3,6 | 3,5 | 3,5 | 3,6 | 3,1 | 1,000 | 10,004 | 15 30,1 | 929,7 | |
| | | 26 250 | 12 2,1 | 3,4 | 3,2 | 3,3 | 3,4 | 2,9 | 1,000 | 10,003 | 15 30,6 | 930,3 | |
| | | 27 260 | 13 35,0 | 3,2 | 3,0 | 3,1 | 3,2 | 2,8 | 1,000 | 10,002 | 15 30,2 | 930,0 | |
| | | 28 270 | 15 8,0 | 3,0 | 2,8 | 2,9 | 3,0 | 2,6 | 1,000 | 10,001 | 15 30,4 | 930,3 | |
| | | 29 280 | 16 41,1 | 2,8 | 2,6 | 2,7 | 2,8 | 2,3 | 1,000 | 10,000 | 15 30,1 | 930,0 | |
| | | 30 290 | 18 14,2 | 2,6 | 2,4 | 2,5 | 2,6 | 2,2 | 1,000 | 10,000 | 15 30,2 | 930,2 | |
| | | 31 300 | 19 47,0 | 2,4 | 2,2 | 2,3 | 2,4 | 2,0 | 1,000 | 10,000 | 15 30,0 | 930,0 | |
| | | | | | | | | | | 930,2 | | | |

| OBSERVATEURS. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | | | | | REMARQUES. |
|--|---|--|--------------------------|-----------------------|--------------------|--------------------|-----------------|-------------|---------|-------------------|----------|------------------------------|--|---|
| | | NOMBRES D'ORDRE. | OSCILLATION. | HEURE du chronomètre. | AMPLITUDES. | | | | CORREC- | SOMME des correc- | DURÉE | | | |
| | | | | | En parties | | Moyenne-moyenne | en parties. | | | réelles. | infinit. petites. (Moyennes) | | |
| Frey. B. P. à 7 ^h 0 ^m matin. | 1818. | 1 0 | 8 ^h 25' 54",0 | 17 ^h ,7 | 17 ^h ,4 | 17 ^h ,5 | | | | | | | | Observation faite dans la salle du premier étage de la maison de M. Delétire. Température = 22°,2. |
| | B. Mars | 2 10 | 26 41,9 | 15,7 | 15,4 | 15,5 | 16,5 | 22,8 | 1,010 | | | | | |
| | P. | 3 29 | 27 30,0 | 14,2 | 13,9 | 14,0 | 14,7 | 20,5 | 1,008 | | | | | |
| | | 4 30 | 28 18,0 | 13,0 | 13,4 | 13,2 | 13,6 | 19,1 | 1,007 | | | | | |
| | | 5 40 | 29 6,0 | 12,0 | 12,3 | 12,1 | 12,6 | 17,7 | 1,006 | | | | | |
| | | 6 50 | 29 53,5 | 11,2 | 11,0 | 11,1 | 11,6 | 16,4 | 1,005 | | | | | |
| | | 7 60 | 30 41,3 | 10,3 | 10,0 | 10,1 | 10,6 | 15,0 | 1,004 | | | | | |
| | | 8 70 | 31 29,0 | 9,4 | 9,2 | 9,3 | 9,7 | 13,8 | 1,004 | | | | | |
| | | 9 80 | 32 16,5 | 8,8 | 8,7 | 8,7 | 9,0 | 12,9 | 1,003 | | | | | |
| | | 10 90 | 33 4,5 | 7,9 | 7,8 | 7,8 | 8,2 | 11,8 | 1,003 | | | | | |
| | | 11 100 | 33 52,3 | 7,5 | 7,3 | 7,4 | 7,6 | 10,9 | 1,002 | 10,052 | 7'58",3 | 475,8 | | |
| | | 12 110 | 34 40,0 | 7,0 | 6,8 | 6,9 | 7,1 | 0,2 | 1,002 | 10,044 | 7'58,1 | 476,0 | | |
| | | 13 120 | 35 27,5 | 6,6 | 6,4 | 6,5 | 6,7 | 9,6 | 1,002 | 10,038 | 7'57,5 | 475,7 | | |
| | | 14 130 | 36 15,5 | 6,0 | 5,8 | 5,9 | 6,2 | 9,0 | 1,002 | 10,033 | 7'57,5 | 475,9 | | |
| | | 15 140 | 37 2,5 | 5,8 | 5,6 | 5,7 | 5,8 | 8,2 | 1,001 | 10,028 | 7'56,5 | 475,2 | | |
| | | 16 150 | 37 50,5 | 5,4 | 5,2 | 5,3 | 5,5 | 7,9 | 1,001 | 10,024 | 7'57,0 | 475,0 | | |
| | | 17 160 | 38 38,5 | 4,9 | 4,7 | 4,8 | 5,0 | 7,2 | 1,001 | 10,021 | 7'57,2 | 476,2 | | |
| | | 18 170 | 39 26,0 | 4,7 | 4,5 | 4,6 | 4,7 | 6,7 | 1,001 | 10,018 | 7'57,0 | 476,1 | | |
| | | 19 180 | 40 13,5 | 4,5 | 4,3 | 4,4 | 4,5 | 6,5 | 1,001 | 10,016 | 7'57,0 | 476,2 | | |
| | | 20 190 | 41 1,0 | 4,2 | 4,0 | 4,1 | 4,2 | 6,1 | 1,901 | 10,014 | 7'56,5 | 475,8 | | |
| | | 21 200 | 41 49,0 | 3,8 | 3,6 | 3,7 | 3,9 | 5,6 | 1,001 | 10,013 | 7'56,7 | 476,1 | | |
| | | 22 210 | 42 36,5 | 3,6 | 3,4 | 3,5 | 3,6 | 5,2 | 1,001 | 10,012 | 7'56,5 | 475,9 | | |
| | | 23 220 | 43 24,0 | 3,4 | 3,2 | 3,3 | 3,4 | 4,9 | 1,001 | 10,011 | 7'56,5 | 476,0 | | |
| | | 24 230 | 44 11,0 | 3,2 | 3,0 | 3,1 | 3,2 | 4,7 | 1,001 | 10,010 | 7'55,5 | 475,0 | | |
| | | 25 240 | 44 59,0 | 2,9 | 2,8 | 2,9 | 3,0 | 4,4 | 1,000 | 10,009 | 7'56,5 | 475,0 | | |
| | | 26 250 | 45 46,5 | 2,8 | 2,7 | 2,7 | 2,8 | 3,9 | 1,000 | 10,008 | 7'56,0 | 475,6 | | |
| | | 27 260 | 46 34,5 | 2,7 | 2,6 | 2,5 | 2,6 | 3,7 | 1,000 | 10,007 | 7'56,0 | 475,7 | | |
| | | 28 270 | 47 22,0 | 2,6 | 2,5 | 2,5 | 2,5 | 3,6 | 1,000 | 10,006 | 7'56,0 | 475,7 | | |
| | | 29 280 | 48 9,0 | 2,4 | 2,3 | 2,4 | 2,4 | 3,4 | 1,000 | 10,005 | 7'55,5 | 475,3 | | |
| | | 30 290 | 48 57,0 | 2,3 | 2,2 | 2,2 | 2,3 | 3,3 | 1,000 | 10,004 | 7'56,0 | 475,8 | | |
| | | 31 300 | 49 44,5 | 2,2 | 2,1 | 2,1 | 2,1 | 3,2 | 1,000 | 10,003 | 7'55,5 | 475,4 | | |
| | | 32 310 | 50 32,5 | 2,1 | 2,0 | 2,0 | 2,0 | 2,9 | 1,000 | 10,002 | 7'56,0 | 475,9 | | |
| Dp. B. | Mars 31. à 8 ^h 30' matin. | 1 0 | 7 42 22,0 | 19,0 | 19,0 | 19,0 | | | | | | | | Observation faite sur la terrasse de notre observatoire. Température = 23°. |
| | | 2 10 | 43 10,0 | 16,8 | 16,7 | 16,7 | 17,8 | 24,3 | 1,011 | | | | | |
| | | 3 20 | 43 57,5 | 15,0 | 15,0 | 15,0 | 15,8 | 21,8 | 1,009 | | | | | |
| | | 4 30 | 44 46,0 | 13,0 | 13,0 | 13,0 | 14,0 | 19,6 | 1,008 | | | | | |
| | | 5 40 | 45 34,0 | 12,0 | 12,0 | 12,0 | 12,5 | 17,6 | 1,006 | | | | | |
| | | 6 50 | 46 22,0 | 10,5 | 10,6 | 10,5 | 11,2 | 15,9 | 1,005 | | | | | |
| | | 7 60 | 47 10,0 | 9,2 | 9,2 | 9,2 | 9,8 | 13,9 | 1,004 | | | | | |
| | | 8 70 | 47 58,0 | 8,5 | 8,4 | 8,4 | 8,8 | 12,5 | 1,003 | | | | | |
| | | 9 80 | 48 46,0 | 8,3 | 8,2 | 8,2 | 8,3 | 11,9 | 1,003 | | | | | |
| | | 10 90 | 49 34,0 | 7,0 | 7,0 | 7,0 | 7,6 | 10,9 | 1,002 | | | | | |
| | | 11 100 | 50 22,0 | 6,0 | 6,0 | 6,0 | 6,5 | 9,4 | 1,002 | 10,053 | 8 0,0 | 477,5 | | |
| | | 12 110 | 51 10,0 | 5,0 | 5,0 | 5,0 | 5,5 | 7,9 | 1,001 | 10,043 | 8 0,0 | 477,9 | | |
| | | 13 120 | 51 58,0 | 4,3 | 4,2 | 4,2 | 4,6 | 6,6 | 1,001 | 10,035 | 8 0,5 | 478,8 | | |
| | | 14 130 | 52 45,0 | 3,7 | 3,6 | 3,6 | 3,9 | 5,6 | 1,001 | 10,028 | 7'59,0 | 477,7 | | |
| | | 15 140 | 53 33,0 | 3,3 | 3,2 | 3,2 | 3,4 | 4,9 | 1,001 | 10,023 | 7'59,0 | 477,9 | | |
| | | 16 150 | 54 21,0 | 3,0 | 3,0 | 3,0 | 3,1 | 4,5 | 1,000 | 10,018 | 7'59,0 | 478,1 | | |
| | | 17 160 | 55 9,0 | 2,8 | 2,8 | 2,8 | 2,9 | 4,1 | 1,000 | 10,014 | 7'59,0 | 478,3 | | |
| | | 18 170 | 55 56,0 | 2,7 | 2,7 | 2,7 | 2,7 | 3,8 | 1,000 | 10,011 | 7'58,0 | 477,5 | | |
| | | 19 180 | 56 44,0 | 2,5 | 2,4 | 2,4 | 2,5 | 3,6 | 1,000 | 10,008 | 7'58,0 | 477,6 | | |
| | | 20 190 | 57 32,0 | 2,4 | 2,3 | 2,3 | 2,3 | 3,3 | 1,000 | 10,006 | 7'58,0 | 477,7 | | |
| | | 21 200 | 58 20,0 | 2,3 | 2,2 | 2,2 | 2,2 | 3,2 | 1,000 | 10,004 | 7'58,0 | 477,8 | | |
| | | 22 210 | 59 8,0 | 2,1 | 2,0 | 2,0 | 2,1 | 3,0 | 1,000 | 10,003 | 7'58,0 | 477,8 | | |
| | | | | | | | | | | | | | | 477,9 |

| OBSERVATEUR. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 8. | | | | | | | | | | | | | REMARQUES. |
|--------------|---|--|---------------|------------------------------|--------------------|--------------------|--------------------|--------------------|-------|---|--|-------------------------------|-----------------------------------|-------|---|
| | | TEMPS à JOURN. | OSCILLATIONS. | HEURES du chronomètre. | AMPLITUDES. | | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | |
| | | | | | En parties | | | Moyenne-moyenne | | | | réelles. | infinit. potées. (Moyennes) | | |
| Dp. B. | 1818. Mars 31, à 11 ^h 30' matin. | 1 | 0 | 10 ^h 38' 59",0 | 21 ^p ,0 | 21 ^p ,0 | 21 ^p ,0 | | | | | | | | Observation faite sur la terrasse de notre observatoire. Température = 27°. |
| | | 2 | 10 | 40 32,0 | 18,5 | 18,5 | 18,5 | 19 ^p ,7 | 16°,5 | 1,005 | | | | | |
| | | 3 | 20 | 42 7,0 | 16,0 | 16,0 | 16,0 | 17,2 | 14,6 | 1,004 | | | | | |
| | | 4 | 30 | 43 41,0 | 14,0 | 14,0 | 14,0 | 15,0 | 12,7 | 1,003 | | | | | |
| | | 5 | 40 | 45 15,0 | 12,0 | 12,0 | 12,0 | 13,0 | 11,1 | 1,002 | | | | | |
| | | 6 | 50 | 46 49,0 | 9,0 | 9,0 | 9,0 | 10,5 | 9,0 | 1,002 | | | | | |
| | | 7 | 60 | 48 22,0 | 7,6 | 7,7 | 7,6 | 8,3 | 7,1 | 1,001 | | | | | |
| | | 8 | 70 | 49 56,0 | 6,7 | 6,8 | 6,7 | 7,1 | 6,1 | 1,001 | | | | | |
| | | 9 | 80 | 51 30,0 | 5,9 | 6,0 | 5,9 | 6,3 | 5,4 | 1,001 | | | | | |
| | | 10 | 90 | 53 05,0 | 5,0 | 5,0 | 5,0 | 5,4 | 4,6 | 1,001 | | | | | |
| | | 11 | 100 | 54 37,0 | 4,1 | 4,2 | 4,1 | 4,5 | 3,8 | 1,000 | 10,020 | 15'38",0 | 936,1 | | |
| | | 12 | 110 | 56 11,0 | 3,5 | 3,5 | 3,5 | 3,8 | 3,2 | 1,000 | 10,015 | 15 39,0 | 937,6 | | |
| | | 13 | 120 | 57 45,0 | 3,0 | 3,0 | 3,0 | 3,2 | 2,8 | 1,000 | 10,011 | 15 38,0 | 937,0 | | |
| | | 14 | 130 | 59 19,0 | 2,8 | 2,8 | 2,8 | 2,9 | 2,4 | 1,000 | 10,008 | 15 38,0 | 937,2 | | |
| | | 15 | 140 | 0 52,0 | 2,6 | 2,6 | 2,6 | 2,7 | 2,3 | 1,000 | 10,006 | 15 37,0 | 936,4 | | |
| | | 16 | 150 | 2 26,0 | 2,4 | 2,4 | 2,4 | 2,5 | 2,1 | 1,000 | 10,004 | 15 37,0 | 936,6 | | |
| | | 17 | 160 | 4 0,0 | 2,2 | 2,2 | 2,2 | 2,3 | 1,9 | 1,000 | 10,003 | 15 38,0 | 937,7 | | |
| | | 18 | 170 | 5 34,0 | 2,0 | 2,0 | 2,0 | 2,1 | 1,8 | 1,000 | 10,002 | 15 38,0 | 937,8 | | |
| | | | | | | | | | | | | | | 937,0 | |

VOYAGE AUTOUR DU MONDE.

S V. — Port-Louis (*Ile-de-France*).

| OBSERVATEUR. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | | | REMARQUES. | |
|-------------------|--|--|--------------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|---|--|-------------------------------|-------------------------|--|
| | | N° SÉRIE d'ORDRE. | OSCILLATIONS. | HEURE du chronomètre. | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | BONNE des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | |
| | | | | | En parties | | Moyenne-moyenne | en parties. | | | réelles. | infinies. (Moyennes) | |
| Frey. R. B. | 1818. Juin 22, à midi 30'. | 1 0 | 9 ^b 46' 30",0 | 16 ^b ,0 | 16 ^b ,3 | 16 ^b ,1 | | | | | | | Observation faite sur une pile en pierre, dans le jardin de notre observatoire. Température = 29°,9. |
| | | 2 10 | 47 17,5 | 14,2 | 14,5 | 14,3 | 15 ^b ,2 | 21 ^b ,1 | 1,009 | | | | |
| | | 3 20 | 48 4,5 | 12,9 | 13,2 | 13,0 | 13,6 | 19,1 | 1,007 | | | | |
| | | 4 30 | 48 52,0 | 11,6 | 11,9 | 11,7 | 12,3 | 17,3 | 1,006 | | | | |
| | | 5 40 | 49 39,0 | 10,5 | 10,8 | 10,6 | 11,1 | 15,7 | 1,005 | | | | |
| | | 6 50 | 50 26,0 | 9,5 | 9,8 | 9,6 | 10,1 | 14,3 | 1,004 | | | | |
| | | 7 60 | 51 13,0 | 8,6 | 8,9 | 8,7 | 9,1 | 13,0 | 1,003 | | | | |
| | | 8 70 | 52 0,0 | 8,0 | 8,4 | 8,2 | 8,4 | 12,0 | 1,003 | | | | |
| | | 9 80 | 52 47,0 | 7,3 | 7,6 | 7,4 | 7,8 | 11,1 | 1,002 | | | | |
| | | 10 90 | 53 34,0 | 6,5 | 6,8 | 6,6 | 7,0 | 10,1 | 1,002 | | | | |
| | | 11 100 | 54 21,0 | 5,9 | 6,2 | 6,0 | 6,3 | 9,1 | 1,002 | 10,043 | 7' 51",0 | 469°,0 | |
| | | 12 110 | 55 8,0 | 5,4 | 5,7 | 5,5 | 5,7 | 8,1 | 1,001 | 10,035 | 7 50,0 | 468,4 | |
| | | 13 120 | 55 54,7 | 4,9 | 5,2 | 5,0 | 5,2 | 7,5 | 1,001 | 10,029 | 7 50,2 | 468,8 | |
| | | 14 130 | 56 41,5 | 4,7 | 5,0 | 4,8 | 4,9 | 7,0 | 1,001 | 10,024 | 7 49,5 | 468,4 | |
| | | 15 140 | 57 28,0 | 4,2 | 4,5 | 4,3 | 4,5 | 6,5 | 1,001 | 10,020 | 7 49,0 | 468,1 | |
| | | 16 150 | 58 15,0 | 3,8 | 4,1 | 3,9 | 4,1 | 5,9 | 1,001 | 10,017 | 7 49,0 | 468,2 | |
| | | 17 160 | 59 2,0 | 3,5 | 3,8 | 3,6 | 3,7 | 5,3 | 1,001 | 10,015 | 7 49,0 | 468,3 | |
| | | 18 170 | 59 48,5 | 3,2 | 3,5 | 3,3 | 3,4 | 4,9 | 1,001 | 10,013 | 7 48,5 | 467,9 | |
| | | 19 180 | 10 0 36,0 | 2,9 | 3,2 | 3,0 | 3,1 | 4,5 | 1,000 | 10,011 | 7 49,0 | 468,5 | |
| | | 20 190 | 1 22,5 | 2,7 | 3,0 | 2,8 | 2,9 | 4,1 | 1,000 | 10,009 | 7 48,5 | 468,1 | |
| | | 21 200 | 2 9,5 | 2,5 | 2,8 | 2,6 | 2,7 | 3,8 | 1,000 | 10,007 | 7 48,5 | 468,2 | |
| | | 22 210 | 2 56,0 | 2,2 | 2,5 | 2,3 | 2,4 | 3,4 | 1,000 | 10,006 | 7 48,0 | 467,7 | |
| | | 23 220 | 3 43,0 | 1,9 | 2,2 | 2,0 | 2,1 | 3,0 | 1,000 | 10,005 | 7 48,3 | 468,1 | |
| G. R. B. | Juin 22, à 2 ^b 15' soir. | | | | | | | | | | | | 468,3 |
| | | 1 0 | 10 28 9,5 | 16,4 | 16,6 | 16,5 | | | | | | | Thermomètre sous la tente = 30°,1. |
| | | 2 10 | 28 56,0 | 14,5 | 14,7 | 14,6 | 15,5 | 21,5 | 1,009 | | | | |
| | | 3 20 | 29 43,0 | 12,5 | 12,7 | 12,6 | 13,6 | 19,1 | 1,007 | | | | |
| | | 4 30 | 30 30,5 | 11,6 | 11,8 | 11,7 | 12,1 | 17,0 | 1,006 | | | | |
| | | 5 40 | 31 17,5 | 10,6 | 10,9 | 10,7 | 11,2 | 15,9 | 1,005 | | | | |
| | | 6 50 | 32 4,0 | 9,0 | 9,3 | 9,1 | 9,0 | 14,1 | 1,004 | | | | |
| | | 7 60 | 32 51,0 | 8,5 | 8,7 | 8,6 | 8,8 | 12,5 | 1,003 | | | | |
| | | 8 70 | 33 38,0 | 8,0 | 8,2 | 8,1 | 8,3 | 11,9 | 1,003 | | | | |
| | | 9 80 | 34 25,0 | 7,2 | 7,4 | 7,3 | 7,7 | 11,0 | 1,002 | | | | |
| | | 10 90 | 35 12,0 | 6,0 | 6,3 | 6,1 | 6,7 | 9,6 | 1,002 | | | | |
| | | 11 100 | 35 59,0 | 5,5 | 5,8 | 5,6 | 5,8 | 8,2 | 1,001 | 10,042 | 7 49,5 | 467,5 | |
| | | 12 110 | 36 45,5 | 5,0 | 5,2 | 5,1 | 5,3 | 7,6 | 1,001 | 10,034 | 7 49,5 | 467,9 | |
| | | 13 120 | 37 32,0 | 4,5 | 5,0 | 4,7 | 4,9 | 7,0 | 1,001 | 10,028 | 7 49,0 | 467,7 | |
| | | 14 130 | 38 19,0 | 4,4 | 4,8 | 4,6 | 4,7 | 6,7 | 1,001 | 10,023 | 7 48,5 | 467,4 | |
| | | 15 140 | 39 6,0 | 4,2 | 4,6 | 4,4 | 4,5 | 6,5 | 1,001 | 10,019 | 7 48,5 | 467,6 | |
| | | 16 150 | 39 52,5 | 4,0 | 4,4 | 4,2 | 4,3 | 6,2 | 1,001 | 10,016 | 7 48,5 | 467,7 | |
| | | 17 160 | 40 39,5 | 3,7 | 4,0 | 3,8 | 4,0 | 5,8 | 1,001 | 10,014 | 7 48,5 | 467,8 | |
| | | 18 170 | 41 26,0 | 3,5 | 3,8 | 3,6 | 3,7 | 5,3 | 1,001 | 10,012 | 7 48,0 | 467,4 | |
| | | 19 180 | 42 10,0 | 3,2 | 3,5 | 3,3 | 3,4 | 4,9 | 1,001 | 10,011 | 7 48,0 | 467,5 | |
| | | 20 190 | 43 0,0 | 2,9 | 3,2 | 3,0 | 3,1 | 4,5 | 1,000 | 10,009 | 7 48,0 | 467,6 | |
| | | 21 200 | 43 47,0 | 2,6 | 2,8 | 2,7 | 2,8 | 3,9 | 1,000 | 10,008 | 7 48,0 | 467,6 | |
| | | 22 210 | 44 33,5 | 2,2 | 2,6 | 2,4 | 2,5 | 3,6 | 1,000 | 10,007 | 7 48,0 | 467,7 | |
| | | 23 220 | 45 20,0 | 2,0 | 2,3 | 2,1 | 2,2 | 3,2 | 1,000 | 10,006 | 7 48,0 | 467,7 | |
| | | 24 230 | 46 7,0 | 1,8 | 2,0 | 1,9 | 2,0 | 2,9 | 1,000 | 10,005 | 7 48,0 | 467,8 | |
| | | | | | | | | | | | | | 467,6 |

INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9.

| OBSERVATEUR. | DATES et HEURES. | NUMÉROS D'OISEAUX. OSCILLATIONS. | HEURE du chronomètre. | AMPLITUDES. | | | | | CORRAC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | REMARQUES. | | | | |
|-----------------|--|-------------------------------------|-----------------------------|--------------|--------------|---------|-----------------|---------------|---|--|-------------------------------|--|--|--|--|--|
| | | | | En parties | | | Moyenne-moyenne | | | | | | | | | |
| | | | | à gauche. | à droite. | Moyenn. | en parties. | en degrés. | | | | | | | | |
| G. R. B. | 1818. Juin 22, à 3 ^h soir. | 1 0 | 11 ^h 26' 51",5 | 16°,1 | 16°,5 | 16°,3 | | | 1,009 | | | Température = 28°,5. | | | | |
| | | 2 10 | 27 38,5 | 14,6 | 15,0 | 14,8 | 15°,5 | 21°,5 | 1,008 | | | | | | | |
| | | 3 20 | 28 25,7 | 13,4 | 13,8 | 13,6 | 14,2 | 19,8 | 1,006 | | | | | | | |
| | | 4 30 | 29 12,8 | 12,3 | 12,7 | 12,5 | 13,0 | 18,3 | 1,006 | | | | | | | |
| | | 5 40 | 29 59,9 | 11,1 | 11,4 | 11,2 | 11,8 | 16,6 | 1,006 | | | | | | | |
| | | 6 50 | 30 46,7 | 10,3 | 10,6 | 10,4 | 10,8 | 15,2 | 1,004 | | | | | | | |
| | | 7 60 | 31 34,5 | 9,4 | 9,7 | 9,5 | 9,9 | 14,1 | 1,004 | | | | | | | |
| | | 8 70 | 32 20,5 | 8,5 | 8,8 | 8,6 | 9,0 | 12,9 | 1,003 | | | | | | | |
| | | 9 80 | 33 7,5 | 7,4 | 7,8 | 7,6 | 8,1 | 11,6 | 1,053 | | | | | | | |
| | | 10 90 | 33 54,5 | 7,0 | 7,4 | 7,2 | 7,4 | 10,6 | 1,002 | | | | | | | |
| | | 11 100 | 34 41,3 | 6,4 | 6,7 | 6,5 | 6,8 | 9,7 | 1,002 | 10,047 | 7' 49",8 | 467",6 | | | | |
| | | 12 110 | 35 28,0 | 5,8 | 6,2 | 6,0 | 6,2 | 8,9 | 1,002 | 10,040 | 7 49,5 | 467,6 | | | | |
| | | 13 120 | 36 15,0 | 5,3 | 5,9 | 5,6 | 5,8 | 8,2 | 1,001 | 10,033 | 7 49,3 | 467,7 | | | | |
| | | 14 130 | 37 1,8 | 5,0 | 5,5 | 5,2 | 5,4 | 7,7 | 1,001 | 10,028 | 7 49,0 | 467,7 | | | | |
| | | 15 140 | 37 48,5 | 4,6 | 5,8 | 4,8 | 5,0 | 7,2 | 1,001 | 10,023 | 7 48,6 | 467,5 | | | | |
| | | 16 150 | 38 35,2 | 4,4 | 4,9 | 4,6 | 4,7 | 6,7 | 1,001 | 10,020 | 7 48,5 | 467,6 | | | | |
| | | 17 160 | 39 22,0 | 4,0 | 4,4 | 4,2 | 4,4 | 6,3 | 1,001 | 10,017 | 7 47,5 | 467,7 | | | | |
| | | 18 170 | 40 9,0 | 3,6 | 3,8 | 3,7 | 3,9 | 5,6 | 1,001 | 10,015 | 7 48,5 | 467,8 | | | | |
| | | 19 180 | 40 55,8 | 3,3 | 3,5 | 3,4 | 3,5 | 5,1 | 1,001 | 10,013 | 7 48,3 | 467,7 | | | | |
| | | 20 190 | 41 42,5 | 2,7 | 2,9 | 2,8 | 3,1 | 4,5 | 1,000 | 10,011 | 7 48,0 | 467,5 | | | | |
| | | 21 200 | 42 29,0 | 2,4 | 2,7 | 2,5 | 2,6 | 3,7 | 1,000 | 10,009 | 7 47,7 | 467,3 | | | | |
| | | 22 210 | 43 16,0 | 2,2 | 2,5 | 2,3 | 2,4 | 3,4 | 1,000 | 10,007 | 7 48,0 | 467,7 | | | | |
| | | 23 220 | 44 2,9 | 2,0 | 2,7 | 2,3 | 2,3 | 3,3 | 1,000 | 10,006 | 7 47,9 | 467,6 | | | | |
| | | 24 230 | 44 49,3 | 1,8 | 2,0 | 1,9 | 2,1 | 3,0 | 1,000 | 10,005 | 7 47,5 | 467,3 | | | | |
| | | | | | | | | | | | | 467,5 | | | | |
| Lc. G. R. | 23, à 8 ^h 15' matin. | 1 0 | 4 42 8,2 | 17,5 | 17,0 | 17,2 | | | | | | Température = 27°,5. Après la fin de l'expérience précédente, l'aiguille n° 9 ayant été posée par mégarde auprès d'un de nos grands faisceaux magnétiques, nous avons dû croire que la dose d'alimentation de cette aiguille avait été changée; on s'en est assuré par une des expériences ci-après, qui a mis cette présomption hors de doute. | | | | |
| | | 2 10 | 43 7,2 | 15,7 | 15,3 | 15,5 | 16,3 | 22,5 | 1,009 | | | | | | | |
| | | 3 20 | 44 6,4 | 14,3 | 13,6 | 13,9 | 14,7 | 20,5 | 1,008 | | | | | | | |
| | | 4 30 | 45 5,0 | 13,0 | 12,4 | 12,7 | 13,3 | 18,7 | 1,007 | | | | | | | |
| | | 5 40 | 46 4,0 | 12,4 | 11,8 | 12,1 | 12,4 | 17,4 | 1,006 | | | | | | | |
| | | 6 50 | 47 2,8 | 11,2 | 10,6 | 10,9 | 11,5 | 16,3 | 1,005 | | | | | | | |
| | | 7 60 | 48 1,5 | 9,8 | 9,4 | 9,6 | 10,2 | 14,4 | 1,004 | | | | | | | |
| | | 8 70 | 49 0,0 | 9,1 | 8,7 | 8,9 | 9,2 | 13,1 | 1,003 | | | | | | | |
| | | 9 80 | 49 58,6 | 8,2 | 7,8 | 8,0 | 8,4 | 12,0 | 1,003 | | | | | | | |
| | | 10 90 | 50 57,0 | 7,3 | 6,9 | 7,1 | 7,5 | 10,8 | 1,002 | | | | | | | |
| | | 11 100 | 51 50,6 | 6,8 | 6,6 | 6,7 | 6,9 | 9,9 | 1,002 | 10,049 | 9 47,4 | 584,5 | | | | |
| | | 12 110 | 52 54,2 | 6,3 | 6,1 | 6,2 | 6,4 | 9,2 | 1,002 | 10,042 | 9 47,0 | 584,5 | | | | |
| | | 13 120 | 53 52,7 | 5,7 | 5,6 | 5,6 | 5,9 | 8,4 | 1,001 | 10,035 | 9 46,3 | 584,2 | | | | |
| | | 14 130 | 54 51,2 | 5,3 | 5,2 | 5,2 | 5,4 | 7,7 | 1,001 | 10,029 | 9 46,2 | 584,5 | | | | |
| | | 15 140 | 55 49,7 | 4,8 | 4,8 | 4,8 | 5,0 | 7,2 | 1,001 | 10,024 | 9 45,7 | 584,3 | | | | |
| | | 16 150 | 56 48,3 | 4,4 | 4,4 | 4,4 | 4,6 | 6,6 | 1,001 | 10,020 | 9 45,5 | 584,3 | | | | |
| | | 17 160 | 57 46,9 | 3,8 | 3,9 | 3,8 | 4,1 | 5,9 | 1,001 | 10,017 | 9 45,4 | 584,4 | | | | |
| | | 18 170 | 58 45,3 | 3,5 | 3,6 | 3,5 | 3,6 | 5,3 | 1,001 | 10,015 | 9 45,3 | 584,4 | | | | |
| | | 19 180 | 59 43,6 | 3,3 | 3,4 | 3,3 | 3,4 | 4,9 | 1,001 | 10,013 | 9 45,0 | 584,2 | | | | |
| | | 20 190 | 5 0 42,2 | 3,0 | 3,1 | 3,0 | 3,1 | 4,5 | 1,000 | 10,011 | 9 45,2 | 584,5 | | | | |
| | | 21 200 | 1 40,7 | 2,7 | 2,9 | 2,8 | 2,9 | 4,1 | 1,000 | 10,009 | 9 45,1 | 584,6 | | | | |
| | | 22 210 | 2 39,2 | 2,5 | 2,7 | 2,6 | 2,7 | 3,8 | 1,000 | 10,007 | 9 45,0 | 584,6 | | | | |
| | | 23 220 | 3 37,7 | 2,3 | 2,5 | 2,4 | 2,5 | 3,6 | 1,000 | 10,006 | 9 45,0 | 584,6 | | | | |
| | | 24 230 | 4 36,0 | 2,0 | 2,2 | 2,1 | 2,2 | 3,1 | 1,000 | 10,005 | 9 44,8 | 584,5 | | | | |
| | | 25 240 | 5 34,3 | 1,8 | 2,0 | 1,9 | 2,0 | 2,9 | 1,000 | 10,004 | 9 44,6 | 584,4 | | | | |
| | | | | | | | | | | | | 584,4 | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | | | | | REMARQUES. | |
|------------------|---|--|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|--------------------------------------|---|----------------------------|-----------------------------|----------------------|--|
| | | NUMÉROS D'ORDRE. | HEURE du chronomètre. | AMPLITudes. | | | | | | CORRECtions dépendantes de l'amplit. | SOMME des corrections pour cent oscillat. | DURéE de cent oscillations | | | |
| | | | | En parties | | | Moyenne-moyenne | en parties. | en degrés. | | | réelles. | infinim. petites. (Moyenne) | | |
| Lb. B. Db. | 1818. Juin 26, à 11 ^h 15' matin. | 1 0 | 4 ^h 50' 43",5 | 16 ⁰ ,0 | 15 ⁰ ,8 | 15 ⁰ ,9 | | | | | | | | Température = 23°,3. | |
| | | 2 10 | 51 25,0 | 14,8 | 14,7 | 14,7 | 15 ⁰ ,3 | 21 ⁰ ,2 | 1,009 | | | | | | |
| | | 3 20 | 52 5,5 | 13,7 | 13,6 | 13,6 | 14,1 | 19,7 | 1,008 | | | | | | |
| | | 4 30 | 52 47,0 | 12,8 | 12,6 | 12,7 | 13,1 | 18,4 | 1,006 | | | | | | |
| | | 5 40 | 53 28,0 | 11,7 | 11,5 | 11,6 | 12,1 | 17,0 | 1,006 | | | | | | |
| | | 6 50 | 54 9,0 | 10,6 | 10,4 | 10,5 | 11,0 | 15,6 | 1,005 | | | | | | |
| | | 7 60 | 54 50,0 | 9,8 | 9,6 | 9,7 | 10,1 | 14,3 | 1,004 | | | | | | |
| | | 8 70 | 55 30,5 | 9,1 | 8,9 | 9,0 | 9,3 | 13,3 | 1,003 | | | | | | |
| | | 9 80 | 56 11,5 | 8,4 | 8,3 | 8,3 | 8,6 | 12,3 | 1,002 | | | | | | |
| | | 10 90 | 56 52,8 | 7,8 | 7,7 | 7,7 | 8,0 | 11,5 | 1,002 | | | | | | |
| | | 11 100 | 57 33,5 | 7,4 | 7,3 | 7,3 | 7,5 | 10,8 | 1,002 | 10,047 | 6' 50",0 | 408",1 | | | |
| | | 12 110 | 58 14,5 | 7,0 | 6,9 | 6,9 | 7,1 | 10,2 | 1,002 | 10,040 | 6 49,5 | 407,9 | | | |
| | | 13 120 | 58 55,0 | 6,6 | 6,5 | 6,5 | 6,7 | 9,6 | 1,002 | 10,034 | 6 49,5 | 408,1 | | | |
| | | 14 130 | 59 36,0 | 6,2 | 6,0 | 6,1 | 6,3 | 9,1 | 1,002 | 10,030 | 6 49,0 | 407,8 | | | |
| | | 15 140 | 5 0 17,0 | 5,8 | 5,7 | 5,7 | 5,9 | 8,4 | 1,002 | 10,026 | 6 49,0 | 407,9 | | | |
| | | 16 150 | 0 57,8 | 5,4 | 5,3 | 5,3 | 5,5 | 7,9 | 1,002 | 10,023 | 6 48,8 | 407,9 | | | |
| | | 17 160 | 1 38,5 | 5,0 | 4,9 | 4,9 | 5,1 | 7,3 | 1,001 | 10,020 | 6 48,5 | 407,7 | | | |
| | | 18 179 | 2 19,7 | 4,6 | 4,6 | 4,6 | 4,7 | 6,7 | 1,001 | 10,018 | 6 49,2 | 408,3 | | | |
| | | 19 180 | 3 0,0 | 4,3 | 4,2 | 4,2 | 4,4 | 6,3 | 1,001 | 10,017 | 6 48,5 | 407,8 | | | |
| | | 20 190 | 3 41,0 | 4,0 | 3,9 | 3,9 | 4,0 | 5,8 | 1,001 | 10,016 | 6 48,2 | 407,5 | | | |
| | | 21 200 | 4 22,0 | 3,8 | 3,7 | 3,7 | 3,8 | 5,4 | 1,001 | 10,015 | 6 48,5 | 407,9 | | | |
| | | 22 210 | 5 2,6 | 3,6 | 3,5 | 3,5 | 3,6 | 5,2 | 1,001 | 10,014 | 6 48,1 | 407,5 | | | |
| | | 23 220 | 5 43,0 | 3,3 | 3,2 | 3,2 | 3,3 | 4,8 | 1,001 | 10,013 | 6 48,0 | 407,5 | | | |
| | | 24 230 | 6 24,0 | 3,1 | 3,0 | 3,0 | 3,1 | 4,5 | 1,001 | 10,012 | 6 48,0 | 407,5 | | | |
| | | 25 240 | 7 5,0 | 2,9 | 2,8 | 2,8 | 2,9 | 4,1 | 1,000 | 10,010 | 6 48,0 | 407,6 | | | |
| | | 26 250 | 7 45,6 | 2,7 | 2,7 | 2,7 | 2,7 | 3,8 | 1,000 | 10,008 | 6 47,8 | 407,5 | | | |
| | | 27 260 | 8 26,5 | 2,5 | 2,4 | 2,4 | 2,5 | 3,6 | 1,000 | 10,007 | 6 48,0 | 407,7 | | | |
| | | 28 270 | 9 8,0 | 2,4 | 2,3 | 2,3 | 2,3 | 3,3 | 1,000 | 10,006 | 6 48,3 | 408,0 | | | |
| | | 29 280 | 9 49,5 | 2,3 | 2,2 | 2,2 | 2,2 | 3,1 | 1,000 | 10,005 | 6 49,5 | 409,3 | | | |
| | | 30 290 | 10 30,5 | 2,1 | 2,0 | 2,0 | 2,1 | 3,0 | 1,000 | 10,004 | 6 49,5 | 409,3 | | 407,9 | |
| Lb. B. | 26, midi 15' | 1 0 | 5 34 24,5 | 16,7 | 16,8 | 16,7 | | | | | | | | Température = 30°,0. | |
| | | 2 10 | 35 5,3 | 15,6 | 15,7 | 15,6 | 16,1 | 22,2 | 1,009 | | | | | | |
| | | 3 20 | 35 46,7 | 14,5 | 14,6 | 14,5 | 15,0 | 20,8 | 1,009 | | | | | | |
| | | 4 30 | 36 28,0 | 13,4 | 13,5 | 13,4 | 13,9 | 19,5 | 1,008 | | | | | | |
| | | 5 40 | 37 9,0 | 12,4 | 12,5 | 12,4 | 12,9 | 18,1 | 1,006 | | | | | | |
| | | 6 50 | 37 50,0 | 11,5 | 11,6 | 11,5 | 11,9 | 16,8 | 1,006 | | | | | | |
| | | 7 60 | 38 31,0 | 10,6 | 10,7 | 10,6 | 11,0 | 15,6 | 1,005 | | | | | | |
| | | 8 70 | 39 12,0 | 9,7 | 9,8 | 9,7 | 10,1 | 14,3 | 1,004 | | | | | | |
| | | 9 80 | 39 53,0 | 8,8 | 8,9 | 8,8 | 9,2 | 13,1 | 1,003 | | | | | | |
| | | 10 90 | 40 34,0 | 8,2 | 8,3 | 8,2 | 8,5 | 12,2 | 1,003 | | | | | | |
| | | 11 100 | 41 14,5 | 7,7 | 7,8 | 7,7 | 7,9 | 11,3 | 1,002 | 10,055 | 6 50,0 | 407,8 | | | |
| | | 12 110 | 41 55,5 | 7,3 | 7,3 | 7,3 | 7,5 | 10,8 | 1,002 | 10,048 | 6 50,2 | 408,2 | | | |
| | | 13 120 | 42 37,0 | 6,8 | 6,8 | 6,8 | 7,0 | 10,1 | 1,002 | 10,041 | 6 50,3 | 408,6 | | | |
| | | 14 130 | 43 17,0 | 6,4 | 6,5 | 6,4 | 6,6 | 9,5 | 1,002 | 10,035 | 6 49,0 | 407,6 | | | |
| | | 15 140 | 43 58,0 | 6,0 | 6,1 | 6,0 | 6,2 | 8,9 | 1,002 | 10,031 | 6 49,0 | 407,7 | | | |
| | | 16 150 | 44 39,0 | 5,6 | 5,7 | 5,6 | 5,8 | 8,2 | 1,001 | 10,026 | 6 49,0 | 407,9 | | | |
| | | 17 160 | 45 20,0 | 5,2 | 5,3 | 5,2 | 5,4 | 7,7 | 1,001 | 10,022 | 6 49,0 | 408,1 | | | |
| | | 18 170 | 46 0,5 | 4,8 | 4,9 | 4,8 | 5,0 | 7,2 | 1,001 | 10,019 | 6 48,5 | 407,7 | | | |
| | | 19 180 | 46 43,5 | 4,5 | 4,6 | 4,5 | 4,6 | 6,6 | 1,001 | 10,017 | 6 50,5 | 409,8 | | | |
| | | 20 190 | 47 24,5 | 4,3 | 4,4 | 4,3 | 4,4 | 6,3 | 1,001 | 10,015 | 6 50,5 | 409,9 | | | |
| | | 21 200 | 48 5,0 | 4,0 | 4,1 | 4,0 | 4,1 | 5,9 | 1,001 | 10,014 | 6 50,5 | 409,9 | | | |
| | | 22 210 | 48 45,5 | 3,7 | 3,8 | 3,7 | 3,8 | 5,4 | 1,001 | 10,013 | 6 50,0 | 409,5 | | | |
| | | 23 220 | 49 27,0 | 3,4 | 3,5 | 3,4 | 3,5 | 5,1 | 1,001 | 10,012 | 6 50,0 | 409,5 | | | |
| | | 24 230 | 50 7,7 | 3,2 | 3,3 | 3,2 | 3,3 | 4,8 | 1,001 | 10,011 | 6 50,7 | 410,2 | | | |
| | | 25 240 | 50 48,3 | 3,0 | 3,1 | 3,0 | 3,1 | 4,5 | 1,000 | 10,009 | 6 50,3 | 409,9 | | | |
| | | 26 250 | 51 29,0 | 2,9 | 3,0 | 2,9 | 2,9 | 4,1 | 1,000 | 10,008 | 6 50,0 | 409,7 | | | |
| | | 27 260 | 52 9,6 | 2,8 | 2,9 | 2,8 | 2,8 | 3,9 | 1,000 | 10,007 | 6 49,6 | 409,3 | | | |
| | | 28 270 | 52 50,3 | 2,6 | 2,7 | 2,6 | 2,7 | 3,8 | 1,000 | 10,006 | 6 49,8 | 409,6 | | | |
| | | 29 280 | 53 31,6 | 2,4 | 2,5 | 2,4 | 2,5 | 3,6 | 1,000 | 10,005 | 6 48,1 | 407,9 | | | |
| | | 30 290 | 54 12,0 | 2,2 | 2,3 | 2,2 | 2,3 | 3,3 | 1,000 | 10,004 | 6 47,5 | 407,3 | | | |
| | | 31 300 | 54 52,7 | 2,0 | 2,1 | 2,0 | 2,1 | 3,0 | 1,000 | 10,003 | 6 47,7 | 407,6 | | 408,7 | |

| OBSERVATEURS. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 et 8. | | | | | | | | | | | | | | | | |
|---------------|---|-------------------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------|--|--|-------------------------------|---------------|------------|--|--|--|
| | DATES et HEURES. | OSCILLATIONS. en secondes. | HEURE du chronomètre. | AMPLITUDES. | | | | | | corréc- tions dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | REMARQUES. | | | |
| | | | | En parties | | | Moyenne-moyenne | | | | | en parties. | en degrés. | | | | |
| | | | | à gauche. | à droite. | Moyenne. | en parties. | en degrés. | réelles. | | | | | | | | |
| a. | 1818. Juin 26, à 1 ^h 15' soir. | 1 0 | 7 3' 23",0 | 22 ^p ,2 | 22 ^p ,0 | 22 ^p ,1 | | | | | | | | | Température = 20°,0. Aiguille n° 7. | | |
| | | 2 10 | 4 55,0 | 20,2 | 20,0 | 20,1 | 21 ^p ,1 | 17°,6 | 1,006 | | | | | | | | |
| | | 3 20 | 6 27,0 | 18,5 | 18,3 | 18,4 | 19,2 | 16,1 | 1,005 | | | | | | | | |
| | | 4 30 | 7 58,3 | 17,0 | 16,8 | 16,9 | 17,6 | 14,9 | 1,004 | | | | | | | | |
| | | 5 40 | 9 30,0 | 15,7 | 15,5 | 15,6 | 16,2 | 13,7 | 1,004 | | | | | | | | |
| | | 6 50 | 11 1,5 | 14,1 | 13,9 | 14,0 | 14,8 | 12,5 | 1,003 | | | | | | | | |
| | | 7 60 | 12 33,0 | 12,9 | 12,7 | 12,8 | 13,4 | 11,4 | 1,002 | | | | | | | | |
| | | 8 70 | 14 4,5 | 11,5 | 11,4 | 11,4 | 12,1 | 10,3 | 1,002 | | | | | | | | |
| | | 9 80 | 15 35,5 | 10,6 | 10,5 | 10,5 | 10,9 | 9,3 | 1,002 | | | | | | | | |
| | | 10 90 | 17 7,6 | 9,8 | 9,7 | 9,7 | 10,1 | 8,7 | 1,002 | | | | | | | | |
| | | 11 100 | 18 38,5 | 8,9 | 8,8 | 8,8 | 9,2 | 7,9 | 1,001 | 10,031 | 15'15",5 | 912",7 | | | | | |
| | | 12 110 | 20 9,6 | 8,0 | 7,9 | 7,9 | 8,3 | 7,1 | 1,001 | 10,026 | 15 14,0 | 912,2 | | | | | |
| | | 13 120 | 21 41,0 | 7,2 | 7,1 | 7,1 | 7,5 | 6,4 | 1,001 | 10,022 | 15 14,0 | 912,0 | | | | | |
| | | 14 130 | 23 12,0 | 6,6 | 6,5 | 6,5 | 6,8 | 5,8 | 1,001 | 10,019 | 15 13,0 | 912,0 | | | | | |
| | | 15 140 | 24 43,0 | 6,1 | 6,0 | 6,0 | 6,2 | 5,4 | 1,001 | 10,016 | 15 13,0 | 911,5 | | | | | |
| | | 16 150 | 26 14,6 | 5,5 | 5,5 | 5,4 | 5,7 | 4,9 | 1,001 | 10,014 | 15 13,1 | 911,8 | | | | | |
| | | 17 160 | 27 45,6 | 5,0 | 4,4 | 4,9 | 5,1 | 4,4 | 1,000 | 10,012 | 15 12,9 | 911,5 | | | | | |
| | | 18 170 | 29 17,0 | 4,5 | 4,9 | 4,4 | 4,6 | 3,9 | 1,000 | 10,010 | 15 12,5 | 911,6 | | | | | |
| | | 19 180 | 30 48,3 | 4,1 | 4,0 | 4,0 | 4,2 | 3,6 | 1,000 | 10,008 | 15 12,8 | 912,1 | | | | | |
| | | 20 190 | 32 19,5 | 3,6 | 3,5 | 3,5 | 3,7 | 3,2 | 1,000 | 10,006 | 15 11,9 | 911,3 | | | | | |
| | | 21 200 | 33 51,0 | 3,3 | 3,2 | 3,2 | 3,3 | 2,8 | 1,000 | 10,005 | 15 12,5 | 912,0 | | | | | |
| | | 22 210 | 35 22,0 | 3,0 | 2,9 | 2,9 | 3,0 | 2,6 | 1,000 | 10,004 | 15 12,4 | 912,0 | | | | | |
| | | 23 220 | 36 53,5 | 2,8 | 2,7 | 2,7 | 2,8 | 2,3 | 1,000 | 10,003 | 15 12,5 | 912,2 | | | | | |
| | | 24 230 | 38 24,0 | 2,5 | 2,4 | 2,4 | 2,5 | 2,1 | 1,000 | 10,002 | 15 12,0 | 911,8 | | | | | |
| | | 25 240 | 39 55,5 | 2,2 | 2,7 | 2,4 | 2,4 | 2,0 | 1,000 | 10,001 | 15 12,5 | 912,4 | | | | | |
| | | 26 250 | 41 27,0 | 2,0 | 1,9 | 1,9 | 2,1 | 1,8 | 1,000 | 10,000 | 15 12,4 | 912,4 | | | | | |
| | | | | | | | | | | 912,0 | | | | | | | |
| b. | 30, à 1 ^h 21' soir. | 1 0 | 7 27 55,0 | 24,6 | 24,5 | 24,5 | | | | | | | | | Température = 29°,0. Aiguille n° 8. | | |
| | | 2 10 | 29 27,5 | 22,4 | 22,3 | 22,3 | 23,4 | 19,4 | 1,007 | | | | | | | | |
| | | 3 20 | 30 59,3 | 20,0 | 19,9 | 19,9 | 21,1 | 17,6 | 1,006 | | | | | | | | |
| | | 4 30 | 32 30,5 | 17,7 | 17,5 | 17,6 | 18,7 | 15,7 | 1,005 | | | | | | | | |
| | | 5 40 | 34 2,7 | 15,7 | 15,6 | 15,6 | 16,6 | 14,0 | 1,004 | | | | | | | | |
| | | 6 50 | 35 34,0 | 14,2 | 14,0 | 14,1 | 14,8 | 12,5 | 1,003 | | | | | | | | |
| | | 7 60 | 37 6,0 | 12,8 | 12,6 | 12,7 | 13,4 | 11,4 | 1,002 | | | | | | | | |
| | | 8 70 | 38 37,3 | 11,3 | 11,1 | 11,2 | 11,9 | 10,1 | 1,002 | | | | | | | | |
| | | 9 80 | 40 9,0 | 10,0 | 9,8 | 9,9 | 10,5 | 9,0 | 1,002 | | | | | | | | |
| | | 10 90 | 41 40,0 | 8,7 | 8,5 | 8,6 | 9,2 | 7,9 | 1,001 | | | | | | | | |
| | | 11 100 | 43 11,5 | 7,4 | 7,2 | 7,3 | 7,9 | 6,7 | 1,001 | 10,033 | 15 16,5 | 913,5 | | | | | |
| | | 12 110 | 44 43,3 | 6,6 | 6,4 | 6,5 | 6,9 | 5,9 | 1,001 | 10,027 | 15 15,8 | 913,3 | | | | | |
| | | 13 120 | 46 14,0 | 5,7 | 5,5 | 5,6 | 6,0 | 5,2 | 1,001 | 10,022 | 15 14,7 | 912,7 | | | | | |
| | | 14 130 | 47 45,5 | 5,0 | 4,8 | 4,9 | 5,2 | 4,5 | 1,000 | 10,017 | 15 15,0 | 913,4 | | | | | |
| | | 15 140 | 49 17,0 | 4,4 | 4,2 | 4,3 | 4,6 | 3,9 | 1,000 | 10,013 | 15 14,3 | 912,7 | | | | | |
| | | 16 150 | 50 48,0 | 3,8 | 3,7 | 3,7 | 4,0 | 3,4 | 1,000 | 10,010 | 15 14,0 | 913,1 | | | | | |
| | | 17 160 | 52 19,5 | 3,3 | 3,1 | 3,2 | 3,4 | 2,9 | 1,000 | 10,008 | 15 13,5 | 912,8 | | | | | |
| | | 18 170 | 53 51,0 | 2,9 | 2,8 | 2,8 | 3,0 | 2,6 | 1,000 | 10,006 | 15 13,7 | 913,1 | | | | | |
| | | 19 180 | 55 21,0 | 2,6 | 2,4 | 2,5 | 2,6 | 2,2 | 1,000 | 10,004 | 15 12,0 | 911,6 | | | | | |
| | | 20 190 | 56 53,0 | 2,3 | 2,1 | 2,2 | 2,3 | 1,9 | 1,000 | 10,003 | 15 13,0 | 912,7 | | | | | |
| | | 21 200 | 58 25,0 | 2,0 | 1,8 | 1,9 | 2,0 | 1,7 | 1,000 | 10,002 | 15 13,5 | 913,3 | | | | | |
| | | | | | | | | | | 913,0 | | | | | | | |

VOYAGE AUTOEUR DU MONDE.

§ VI. — Baie des Chiens-Marins (Nouvelle-Hollande).

| OBSERVATEUR. | DATES et HEURES. | SOMME des oscillations. | HEURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 7. | | | | | | | | REMARQUES. | | |
|--------------|------------------------|-------------------------------|-----------------------------|--|--------------------|--------------------|--------------------|--------------------|---------------|-------------------------|-------------------------------|------------------------|----------|------------------------------------|
| | | | | AMPLITUDINES. | | | | CORREC- | | SOMME des correc- | DURÉE de cent oscillations | | | |
| | | | | En parties | | Moyenne-moyenne | | en parties. | en degrés. | | de l'amplit. | pour cent oscillat. | réelles. | infinité. petites. (Moyenne) |
| Frey. | 1818. | 1 0 | 4 ^h 17' 49",4 | 17,0 | 21 ^h ,5 | 19 ^h ,2 | | | | | | | | Température = 20 ⁴ ,1. |
| | Sept. | 2 10 | 19 10,0 | 15,0 | 19,5 | 17,2 | 18 ^h ,2 | 15 ^h ,3 | 1,004 | | | | | |
| | 24, | 3 20 | 20 30,5 | 13,5 | 18,0 | 15,7 | 16,4 | 13,8 | 1,004 | | | | | |
| | à 1 ^h 20' | 4 30 | 21 50,7 | 10,5 | 16,0 | 13,2 | 14,4 | 12,2 | 1,003 | | | | | |
| | matin. | 5 40 | 23 11,2 | 9,5 | 15,0 | 12,2 | 12,7 | 10,8 | 1,002 | | | | | |
| | | 6 50 | 24 31,7 | 8,0 | 13,0 | 10,5 | 11,3 | 9,6 | 1,002 | | | | | |
| | | 7 60 | 25 51,2 | 7,0 | 12,0 | 9,5 | 10,0 | 8,6 | 1,002 | | | | | |
| | | 8 70 | 27 11,8 | 6,0 | 11,0 | 8,5 | 9,0 | 7,7 | 1,001 | | | | | |
| | | 9 80 | 28 32,3 | 5,0 | 10,0 | 7,5 | 8,0 | 6,9 | 1,001 | | | | | |
| | | 10 90 | 29 52,8 | 4,0 | 9,0 | 6,5 | 7,0 | 6,0 | 1,001 | | | | | |
| | | 11 100 | 31 13,2 | 3,0 | 8,0 | 5,5 | 6,0 | 5,2 | 1,001 | 10,021 | 13'23",8 | 802,1 | | |
| | | 12 110 | 32 33,8 | 2,5 | 7,5 | 5,0 | 5,2 | 4,5 | 1,000 | 10,017 | 13 23,8 | 802,4 | | |
| | | 13 120 | 33 54,1 | 2,0 | 7,0 | 4,5 | 4,7 | 4,0 | 1,000 | 10,013 | 13 23,6 | 802,5 | | |
| | | 14 130 | 35 14,3 | 1,5 | 6,5 | 4,0 | 4,2 | 3,6 | 1,000 | 10,010 | 13 23,6 | 802,8 | | |
| | | 15 140 | 36 34,7 | 1,0 | 6,0 | 3,5 | 3,7 | 3,2 | 1,000 | 10,008 | 13 23,5 | 302,8 | | |
| Frey. | Sept. | 1 0 | 5 14 39,7 | 17,5 | 21 ^h ,5 | 19,5 | | | | | | | 802,5 | |
| | Lm. | 2 10 | 16 0,3 | 15,0 | 19,0 | 17,0 | 18,2 | 15,3 | 1,004 | | | | | |
| | Fb. | 3 20 | 17 20,2 | 13,0 | 17,0 | 15,0 | 16,0 | 13,5 | 1,003 | | | | | |
| | à midi | 4 30 | 18 40,1 | 11,0 | 15,0 | 13,0 | 14,0 | 11,9 | 1,003 | | | | | |
| | 15' | 5 40 | 20 0,6 | 9,5 | 13,5 | 11,5 | 12,2 | 10,4 | 1,002 | | | | | |
| | | 6 50 | 21 20,7 | 8,0 | 12,0 | 10,0 | 10,7 | 9,2 | 1,002 | | | | | |
| | | 7 60 | 22 40,7 | 7,5 | 11,5 | 9,5 | 9,7 | 8,3 | 1,001 | | | | | |
| | | 8 70 | 24 0,3 | 5,5 | 9,5 | 7,5 | 8,5 | 7,3 | 1,001 | | | | | |
| | | 9 80 | 25 20,8 | 4,5 | 8,5 | 6,5 | 7,0 | 6,0 | 1,001 | | | | | |
| | | 10 90 | 26 40,3 | 3,5 | 7,5 | 5,5 | 6,0 | 5,2 | 1,001 | | | | | |
| | | 11 100 | 28 0,5 | 3,0 | 7,5 | 5,2 | 5,3 | 4,5 | 1,000 | 10,018 | 13 20,8 | 799,4 | | |
| | | 12 110 | 29 20,2 | 2,5 | 6,5 | 4,5 | 4,8 | 4,0 | 1,000 | 10,014 | 13 19,9 | 798,8 | | |
| | | 13 120 | 30 40,4 | 2,0 | 6,0 | 4,0 | 4,2 | 3,6 | 1,000 | 10,011 | 13 20,2 | 799,3 | | |
| | | 14 130 | 32 0,5 | 1,5 | 5,5 | 3,5 | 3,7 | 3,2 | 1,000 | 10,008 | 13 20,4 | 799,8 | | |
| | | 15 140 | 33 20,7 | 1,0 | 5,0 | 3,0 | 3,2 | 2,8 | 1,000 | 10,006 | 13 20,1 | 799,6 | | |
| Frey. | à 1 ^h 10' | 1 0 | 6 5 36,0 | 20,0 | 23,5 | 21,7 | | | | | | | 799,4 | |
| | Lm. | 2 10 | 6 56,0 | 16,0 | 19,5 | 17,7 | 19,7 | 16,5 | 1,005 | | | | | |
| | Fb. | 3 20 | 8 17,0 | 14,0 | 17,0 | 15,5 | 16,6 | 14,0 | 1,004 | | | | | |
| | | 4 30 | 9 37,0 | 11,5 | 14,0 | 12,7 | 14,1 | 12,0 | 1,003 | | | | | |
| | | 5 40 | 10 57,5 | 9,5 | 12,0 | 10,7 | 11,7 | 10,0 | 1,002 | | | | | |
| | | 6 50 | 12 17,3 | 8,0 | 11,5 | 9,7 | 10,2 | 8,8 | 1,002 | | | | | |
| | | 7 60 | 13 37,5 | 7,0 | 10,5 | 8,7 | 9,2 | 7,9 | 1,001 | | | | | |
| | | 8 70 | 14 58,0 | 5,0 | 8,8 | 6,9 | 7,8 | 6,6 | 1,001 | | | | | |
| | | 9 80 | 16 17,0 | 4,5 | 8,0 | 6,2 | 6,5 | 5,0 | 1,001 | | | | | |
| | | 10 90 | 17 37,0 | 3,5 | 7,0 | 5,2 | 5,7 | 4,9 | 1,001 | | | | | |
| | | 11 100 | 18 57,3 | 2,0 | 5,5 | 3,7 | 4,4 | 3,7 | 1,000 | 10,020 | 13 21,3 | 799,7 | | |
| | | 12 110 | 20 17,0 | 1,5 | 5,0 | 3,2 | 3,4 | 2,9 | 1,000 | 10,015 | 13 21,0 | 799,8 | | |
| | | 13 120 | 21 37,3 | 1,0 | 4,5 | 2,7 | 2,9 | 2,4 | 1,000 | 10,011 | 13 20,3 | 799,4 | | |
| | | 14 130 | 22 56,7 | 0,6 | 4,0 | 2,3 | 2,5 | 2,1 | 1,000 | 10,008 | 13 19,7 | 799,1 | | |
| Frey. | à 1 ^h 30' | 1 0 | 6 28 49,2 | 18,0 | 21,0 | 19,5 | | | | | | | 799,5 | |
| | Fb. | 2 10 | 30 10,1 | 16,0 | 19,0 | 17,5 | 18,5 | 15,5 | 1,004 | | | | | |
| | G. | 3 20 | 31 30,0 | 14,0 | 17,0 | 15,5 | 16,5 | 13,9 | 1,004 | | | | | |
| | | 4 30 | 32 50,6 | 13,0 | 16,0 | 14,5 | 15,0 | 12,7 | 1,003 | | | | | |
| | | 5 40 | 34 11,0 | 11,0 | 14,0 | 12,5 | 13,5 | 11,5 | 1,002 | | | | | |
| | | 6 50 | 35 31,2 | 10,0 | 13,0 | 11,5 | 12,0 | 10,2 | 1,002 | | | | | |
| | | 7 60 | 36 51,9 | 8,5 | 11,5 | 10,0 | 10,7 | 9,2 | 1,002 | | | | | |
| | | 8 70 | 38 12,2 | 7,0 | 10,0 | 8,5 | 9,2 | 7,9 | 1,001 | | | | | |
| | | 9 80 | 39 38,5 | 6,8 | 9,3 | 7,8 | 8,1 | 7,0 | 1,001 | | | | | |
| | | 10 90 | 40 52,7 | 5,5 | 8,5 | 7,0 | 7,4 | 6,3 | 1,001 | | | | | |
| | | 11 100 | 42 13,0 | 4,5 | 7,5 | 6,0 | 6,5 | 5,6 | 1,001 | 10,021 | 13 23,8 | 802,1 | | |
| | | 12 110 | 43 33,4 | 3,5 | 7,0 | 5,2 | 5,6 | 4,8 | 1,001 | 10,018 | 13 23,3 | 801,9 | | |
| | | 13 120 | 44 53,6 | 2,5 | 6,0 | 4,2 | 4,7 | 4,0 | 1,000 | 10,014 | 13 23,6 | 802,5 | | |
| | | 14 130 | 46 13,8 | 2,0 | 5,5 | 3,7 | 3,9 | 3,3 | 1,000 | 10,011 | 13 23,2 | 802,3 | | |
| | | 15 140 | 47 34,0 | 1,5 | 5,0 | 3,2 | 3,4 | 2,9 | 1,000 | 10,009 | 13 23,0 | 802,3 | | |
| | | 16 150 | 48 54,3 | 1,0 | 4,5 | 2,7 | 2,9 | 2,4 | 1,000 | 10,007 | 13 23,1 | 802,5 | | |
| | | | | | | | | | | | | | 802,3 | |

§ VII. — Coupang (île Timor).

| OBSERVATEUR. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 ET 8. | | | | | | | | | | | | REMARQUES. |
|---------------------|---|--|---------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|---|--|-------------------------------|-----------------------------------|--------|---|
| | | NUMBRS D'ORDRE. | OSCILLATIONS. | HEURE du chronomètre. | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | |
| | | | | | En parties | à gauche. | à droite. | Moyenn. | | | réelles. | infinim. petites. (Moyenne) | | |
| Frey. Lm. Dp. | 1818. Octob. 19, à 8 ^h 0' matin. | 1 | 0 | 11 ^h 8' 28",3 | 23 ^p ,0 | 23 ^p ,0 | 23 ^p ,0 | 22 ^p ,3 | 18°,5 | 1,006 | | | | Température = 29 ⁴ ,1. Aiguille n° 7. |
| | | 2 | 10 | 9 41,9 | 21,6 | 21,6 | 21,6 | 20,5 | 17,1 | 1,006 | | | | |
| | | 3 | 20 | 10 55,0 | 19,5 | 19,5 | 19,5 | 20,5 | 15,7 | 1,006 | | | | |
| | | 4 | 30 | 12 8,6 | 18,0 | 18,0 | 18,0 | 18,7 | 15,7 | 1,005 | | | | |
| | | 5 | 40 | 13 22,0 | 17,0 | 17,0 | 17,0 | 17,5 | 14,8 | 1,004 | | | | |
| | | 6 | 50 | 14 34,4 | 15,8 | 15,8 | 15,8 | 16,4 | 13,8 | 1,004 | | | | |
| | | 7 | 60 | 15 47,8 | 14,8 | 15,0 | 14,9 | 15,3 | 12,9 | 1,003 | | | | |
| | | 8 | 70 | 17 0,9 | 13,0 | 13,4 | 13,2 | 14,0 | 11,9 | 1,003 | | | | |
| | | 9 | 80 | 18 14,0 | 12,2 | 12,5 | 12,3 | 12,7 | 10,8 | 1,002 | | | | |
| | | 10 | 90 | 19 26,8 | 11,7 | 11,8 | 11,7 | 12,0 | 10,2 | 1,002 | | | | |
| | | 11 | 100 | 20 40,2 | 11,0 | 11,2 | 11,1 | 11,4 | 9,7 | 1,002 | 10,037 | 12 11",9 | 720",2 | |
| | | 12 | 110 | 21 52,9 | 10,4 | 10,6 | 10,5 | 10,8 | 9,2 | 1,002 | 10,038 | 12 11,0 | 728",6 | |
| | | 13 | 120 | 23 5,9 | 9,8 | 10,0 | 9,9 | 10,2 | 8,8 | 1,002 | 10,029 | 12 10,9 | 728",8 | |
| | | 14 | 130 | 24 18,6 | 9,0 | 9,3 | 9,1 | 9,5 | 8,1 | 1,001 | 10,025 | 12 10,0 | 728",2 | |
| | | 15 | 140 | 25 31,8 | 8,3 | 8,7 | 8,5 | 8,8 | 7,5 | 1,001 | 10,022 | 12 9,8 | 728",2 | |
| | | 16 | 150 | 26 44,4 | 7,7 | 8,0 | 7,8 | 8,1 | 7,0 | 1,001 | 10,019 | 12 10,0 | 728",6 | |
| | | 17 | 160 | 27 57,4 | 7,1 | 7,4 | 7,2 | 7,5 | 6,4 | 1,001 | 10,017 | 12 9,6 | 728",4 | |
| | | 18 | 170 | 29 10,2 | 6,5 | 6,8 | 6,6 | 6,9 | 5,9 | 1,001 | 10,015 | 12 9,3 | 728",2 | |
| | | 19 | 180 | 30 23,3 | 6,0 | 6,4 | 6,2 | 6,4 | 5,5 | 1,001 | 10,014 | 12 9,3 | 728",3 | |
| | | 20 | 190 | 31 36,2 | 5,7 | 6,0 | 5,8 | 6,0 | 5,2 | 1,001 | 10,013 | 12 9,4 | 728",5 | |
| | | 21 | 200 | 32 49,2 | 5,3 | 5,6 | 5,4 | 5,6 | 4,8 | 1,001 | 10,012 | 12 9,0 | 728",1 | |
| | | 22 | 210 | 34 2,1 | 5,0 | 5,3 | 5,1 | 5,2 | 4,5 | 1,000 | 10,010 | 12 9,2 | 728",5 | |
| | | 23 | 220 | 35 15,0 | 4,8 | 5,1 | 4,9 | 5,0 | 4,3 | 1,000 | 10,008 | 12 9,1 | 728",5 | |
| | | 24 | 230 | 36 28,0 | 4,5 | 4,8 | 4,6 | 4,7 | 4,0 | 1,000 | 10,007 | 12 9,4 | 728",9 | |
| | | 25 | 240 | 37 40,9 | 4,1 | 4,4 | 4,2 | 4,4 | 3,7 | 1,000 | 10,006 | 12 9,1 | 728",7 | |
| | | 26 | 250 | 38 53,8 | 3,8 | 4,1 | 3,9 | 4,0 | 3,4 | 1,000 | 10,005 | 12 9,4 | 729,0 | |
| | | | | | | | | | | | | | 728,5 | |
| Frey. Lm. Dp. | Octob. 19, à 9 ^h 0' matin. | 1 | 0 | 8 37,2 | 22,5 | 23,0 | 22,7 | | | | | | | Température = 32 ⁴ ,6. Aiguille n° 8. |
| | | 2 | 10 | 9 50,8 | 21,0 | 21,5 | 21,2 | 21,9 | 18,2 | 1,006 | | | | |
| | | 3 | 20 | 11 4,1 | 19,0 | 19,7 | 10,3 | 20,1 | 16,8 | 1,006 | | | | |
| | | 4 | 30 | 12 17,4 | 18,0 | 18,5 | 18,5 | 18,9 | 15,8 | 1,005 | | | | |
| | | 5 | 40 | 13 30,3 | 16,5 | 17,0 | 16,7 | 17,6 | 14,9 | 1,004 | | | | |
| | | 6 | 50 | 14 43,9 | 15,6 | 16,0 | 15,8 | 16,2 | 13,7 | 1,004 | | | | |
| | | 7 | 60 | 15 57,1 | 14,2 | 14,8 | 14,5 | 15,1 | 12,8 | 1,003 | | | | |
| | | 8 | 70 | 17 10,1 | 13,0 | 13,5 | 13,2 | 13,8 | 11,7 | 1,003 | | | | |
| | | 9 | 80 | 18 23,4 | 12,0 | 12,7 | 12,3 | 12,7 | 10,8 | 1,002 | | | | |
| | | 10 | 90 | 19 36,4 | 11,0 | 11,5 | 11,2 | 11,7 | 10,0 | 1,002 | | | | |
| | | 11 | 100 | 20 49,5 | 10,3 | 11,0 | 10,6 | 10,9 | 9,3 | 1,002 | 10,037 | 12 12,3 | 729,6 | |
| | | 12 | 110 | 22 2,5 | 9,8 | 10,6 | 10,2 | 10,4 | 8,9 | 1,002 | 10,033 | 12 11,7 | 729,3 | |
| | | 13 | 120 | 23 15,7 | 9,0 | 9,8 | 9,4 | 9,8 | 8,3 | 1,001 | 10,028 | 12 11,6 | 729,6 | |
| | | 14 | 130 | 24 28,8 | 8,3 | 8,8 | 8,5 | 8,9 | 7,6 | 1,001 | 10,024 | 12 11,4 | 729,6 | |
| | | 15 | 140 | 25 41,9 | 7,6 | 8,0 | 7,8 | 8,1 | 7,0 | 1,001 | 10,021 | 12 11,6 | 730,1 | |
| | | 16 | 150 | 26 54,9 | 7,0 | 7,5 | 7,2 | 7,5 | 6,4 | 1,001 | 10,018 | 12 11,0 | 729,7 | |
| | | 17 | 160 | 28 7,8 | 6,6 | 7,0 | 6,8 | 7,0 | 6,0 | 1,001 | 10,016 | 12 10,7 | 729,5 | |
| | | 18 | 170 | 29 20,8 | 6,1 | 6,5 | 6,3 | 6,5 | 5,6 | 1,001 | 10,014 | 12 10,7 | 729,7 | |
| | | 19 | 180 | 30 34,2 | 5,7 | 6,0 | 5,8 | 6,0 | 5,2 | 1,001 | 10,013 | 12 10,8 | 729,9 | |
| | | 20 | 190 | 31 47,2 | 5,1 | 5,6 | 5,3 | 5,5 | 4,7 | 1,001 | 10,012 | 12 10,8 | 729,9 | |
| | | 21 | 200 | 33 0,2 | 4,7 | 5,1 | 4,9 | 5,1 | 4,4 | 1,000 | 10,010 | 12 10,7 | 730,0 | |
| | | 22 | 210 | 34 13,1 | 4,3 | 4,7 | 4,5 | 4,7 | 3,9 | 1,000 | 10,008 | 12 10,6 | 730,0 | |
| | | 23 | 220 | 35 26,2 | 4,0 | 4,3 | 4,1 | 4,3 | 3,6 | 1,000 | 10,007 | 12 10,5 | 730,0 | |
| | | 24 | 230 | 36 39,0 | 3,8 | 4,0 | 3,9 | 4,0 | 3,4 | 1,000 | 10,006 | 12 10,2 | 730,1 | |
| | | 25 | 240 | 37 52,0 | 3,6 | 3,8 | 3,7 | 3,8 | 3,2 | 1,000 | 10,005 | 12 10,1 | 729,7 | |
| | | 26 | 250 | 39 5,0 | 3,0 | 3,3 | 3,1 | 3,4 | 2,9 | 1,000 | 10,004 | 12 10,1 | 729,8 | |
| | | 27 | 260 | 40 18,0 | 2,8 | 3,0 | 2,9 | 3,0 | 2,6 | 1,090 | 10,003 | 12 10,2 | 730,0 | |
| | | | | | | | | | | | | | 729,8 | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | | | | | REMARQUES. | |
|---------------------|--|--|--------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|--|---|-------------------------------|------------------------------------|----------------------|
| | | NOMBRE d'ORDRE. | OSCILLATION. | SUJET du chronomètre. | AMPLITUDES. | | | | | | CORREC- TIONS dépan- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | |
| | | | | | En parties | | | Moyenne-moyenne | | | | | réelles. | infinim. parties. (Moyennes) | |
| Frey. Lun. B. | 1818. Octob. 19, à 6 ^h 0' soir. | 1 | 0 | 6 ^h 31' 16",5 | 17 ^h ,0 | 18 ^h ,0 | 17 ^h ,5 | | | | | | | | Température = 29°,6. |
| | | 2 | 10 | 31 50,8 | 15,5 | 16,0 | 15,7 | 16 ^h ,6 | 22 ^h ,9 | 1,010 | | | | | |
| | | 3 | 20 | 32 25,1 | 14,5 | 15,0 | 14,7 | 15,2 | 21,0 | 1,009 | | | | | |
| | | 4 | 30 | 32 59,3 | 13,0 | 13,4 | 13,2 | 13,9 | 19,5 | 1,007 | | | | | |
| | | 5 | 40 | 33 33,4 | 13,0 | 12,5 | 12,2 | 12,7 | 17,8 | 1,006 | | | | | |
| | | 6 | 50 | 34 7,8 | 11,0 | 11,5 | 11,2 | 11,7 | 16,5 | 1,005 | | | | | |
| | | 7 | 60 | 34 41,9 | 9,8 | 10,3 | 10,0 | 10,6 | 15,0 | 1,004 | | | | | |
| | | 8 | 70 | 35 16,1 | 8,8 | 9,4 | 9,1 | 9,5 | 13,6 | 1,004 | | | | | |
| | | 9 | 80 | 35 50,1 | 8,5 | 9,0 | 8,7 | 8,9 | 12,7 | 1,003 | | | | | |
| | | 10 | 90 | 36 24,2 | 7,9 | 8,4 | 8,1 | 8,4 | 12,0 | 1,003 | | | | | |
| | | 11 | 100 | 36 58,3 | 7,5 | 7,8 | 7,6 | 7,8 | 11,1 | 1,002 | 10,053 | 5'41",8 | 340",0 | | |
| | | 12 | 110 | 37 32,3 | 6,9 | 7,5 | 7,2 | 7,4 | 10,6 | 1,002 | 10,045 | 5 41,5 | 340,0 | | |
| | | 13 | 120 | 38 5,4 | 6,5 | 7,0 | 6,7 | 6,9 | 9,9 | 1,002 | 10,038 | 5 40,3 | 339,0 | | |
| | | 14 | 130 | 38 40,4 | 5,5 | 6,0 | 5,7 | 6,2 | 8,9 | 1,002 | 10,033 | 5 41,1 | 340,0 | | |
| | | 15 | 140 | 39 14,5 | 5,0 | 5,5 | 5,2 | 5,4 | 7,7 | 1,001 | 10,028 | 5 41,1 | 340,1 | | |
| | | 16 | 150 | 39 48,5 | 4,5 | 5,0 | 4,7 | 4,9 | 7,0 | 1,001 | 10,024 | 5 40,7 | 339,9 | | |
| | | 17 | 160 | 40 22,7 | 4,2 | 4,5 | 4,3 | 4,5 | 6,5 | 1,001 | 10,021 | 5 40,8 | 340,0 | | |
| | | 18 | 170 | 40 56,7 | 4,0 | 4,3 | 4,1 | 4,2 | 6,0 | 1,001 | 10,018 | 5 40,6 | 340,0 | | |
| | | 19 | 180 | 41 30,6 | 3,6 | 4,0 | 3,8 | 3,9 | 5,6 | 1,001 | 10,016 | 5 40,5 | 340,0 | | |
| | | 20 | 190 | 42 4,8 | 3,5 | 3,8 | 3,6 | 3,7 | 5,3 | 1,001 | 10,014 | 5 40,6 | 340,1 | | |
| | | 21 | 200 | 42 38,8 | 3,3 | 3,6 | 3,4 | 3,5 | 5,1 | 1,001 | 10,013 | 5 40,5 | 340,1 | | |
| | | 22 | 210 | 43 12,8 | 3,0 | 3,4 | 3,2 | 3,3 | 4,8 | 1,001 | 10,012 | 5 40,5 | 340,1 | | |
| | | 23 | 220 | 43 46,8 | 2,8 | 3,1 | 2,9 | 3,0 | 4,4 | 1,000 | 10,010 | 5 41,4 | 341,1 | | |
| | | 24 | 230 | 44 20,9 | 2,6 | 3,0 | 2,8 | 2,8 | 3,9 | 1,000 | 10,008 | 5 40,5 | 340,2 | | |
| | | 25 | 240 | 44 54,8 | 2,5 | 2,8 | 2,6 | 2,7 | 3,8 | 1,000 | 10,007 | 5 40,3 | 340,1 | | |
| | | 26 | 250 | 45 28,8 | 2,4 | 2,7 | 2,5 | 2,5 | 3,6 | 1,000 | 10,006 | 5 40,3 | 340,1 | | |
| | | 27 | 260 | 46 2,8 | 2,2 | 2,5 | 2,3 | 2,4 | 3,4 | 1,000 | 10,005 | 5 40,1 | 339,9 | | |
| | | 28 | 270 | 46 36,8 | 2,0 | 2,3 | 2,1 | 2,2 | 3,1 | 1,000 | 10,004 | 5 40,1 | 340,0 | | |
| | | 29 | 280 | 47 10,8 | 1,8 | 2,0 | 1,9 | 2,0 | 2,9 | 1,000 | 10,003 | 5 40,2 | 340,1 | | |
| | | | | | | | | | | | 340,0 | | | | |

§ VIII. — *A Rawak (île des Papous).*

| OBSERVATEUR. | DATES et HEURES. | MUSÉE D'ORPAILLAGE. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 8 ET 7. | | | | | | | | | | REMARQUES. | |
|------------------------|--|---------------------|---|-------------|-----------------|----------------|---|--|---------------------------------------|------------------------|----------|--------|--|--|
| | | | HEURE du chronomètre: | AMPLITUDES. | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURA- TION de cent oscillations | | | | | |
| | | | | En parties | Moyenne-moyenne | en parties. | | | réelles. | infinim. (Moyennes) | | | | |
| Frey. Dp. Fb. | 1818. | 1 0 | 6° 53' 12",5 | 24°,0 | 25°,0 | 24°,5 | | | | | | | | |
| | Décem. 30, à 4 ^h 13' soir. | 2 10 | 54 25,3 | 20,0 | 22,0 | 21,5 | 23°,0 | 19°,1 | 1,007 | | | | Température = 28°,2. Aiguille n° 8. | |
| | | 3 20 | 55 38,0 | 19,0 | 19,0 | 19,0 | 20,2 | 16,9 | 1,006 | | | | | |
| | | 4 30 | 56 50,2 | 18,0 | 18,0 | 18,0 | 18,5 | 15,5 | 1,004 | | | | | |
| | | 5 40 | 58 3,3 | 16,0 | 17,0 | 16,5 | 17,2 | 14,6 | 1,004 | | | | | |
| | | 6 50 | 59 15,4 | 14,0 | 15,0 | 14,5 | 15,5 | 13,1 | 1,003 | | | | | |
| | | 7 60 | 7 0 28,0 | 12,5 | 13,0 | 12,7 | 13,6 | 11,6 | 1,003 | | | | | |
| | | 8 70 | 1 40,3 | 12,0 | 12,5 | 12,2 | 12,4 | 10,5 | 1,002 | | | | | |
| | | 9 80 | 2 53,0 | 11,0 | 11,0 | 11,0 | 11,6 | 9,9 | 1,002 | | | | | |
| | | 10 90 | 4 5,3 | 10,0 | 10,5 | 10,2 | 10,6 | 9,1 | 1,002 | | | | | |
| | | 11 100 | 5 17,5 | 9,0 | 10,0 | 9,5 | 9,8 | 8,3 | 1,001 | 10,034 | 12' 5",0 | 722",5 | | |
| | | 12 110 | 6 30,0 | 8,0 | 9,0 | 8,5 | 9,0 | 7,7 | 1,001 | 10,028 | 12 5,0 | 723,0 | | |
| | | 13 120 | 7 42,3 | 7,6 | 8,6 | 8,1 | 8,3 | 7,1 | 1,001 | 10,023 | 12 4,3 | 722,6 | | |
| | | 14 130 | 8 54,9 | 7,0 | 8,0 | 7,5 | 7,8 | 6,6 | 1,001 | 10,020 | 12 4,7 | 723,2 | | |
| | | 15 140 | 10 7,3 | 6,5 | 7,5 | 7,0 | 7,5 | 6,4 | 1,001 | 10,017 | 12 4,0 | 722,8 | | |
| | | 16 150 | 11 19,5 | 6,0 | 7,0 | 6,5 | 6,7 | 5,8 | 1,001 | 10,015 | 12 4,1 | 723,0 | | |
| | | 17 160 | 12 31,6 | 5,6 | 6,6 | 6,1 | 6,3 | 5,4 | 1,001 | 10,013 | 12 3,6 | 722,7 | | |
| | | 18 170 | 13 44,2 | 5,0 | 5,5 | 5,2 | 5,6 | 4,8 | 1,001 | 10,012 | 12 3,9 | 723,0 | | |
| | | 19 180 | 14 56,4 | 4,8 | 5,3 | 5,0 | 5,1 | 4,4 | 1,000 | 10,010 | 12 3,4 | 722,7 | | |
| | | 20 190 | 16 9,2 | 4,5 | 5,2 | 4,8 | 4,9 | 4,1 | 1,000 | 10,008 | 12 3,9 | 723,3 | | |
| | | 21 200 | 17 21,4 | 4,0 | 5,0 | 4,5 | 4,6 | 3,9 | 1,000 | 10,007 | 12 3,9 | 723,4 | | |
| | | 22 210 | 18 33,5 | 3,8 | 4,8 | 4,3 | 4,4 | 3,7 | 1,000 | 10,006 | 12 3,5 | 723,1 | | |
| | | 23 220 | 19 45,6 | 3,5 | 4,6 | 4,0 | 4,1 | 3,5 | 1,000 | 10,005 | 12 3,3 | 722,9 | | |
| | | 24 230 | 20 58,0 | 3,2 | 4,4 | 3,8 | 3,9 | 3,3 | 1,000 | 10,004 | 12 3,1 | 722,8 | | |
| | | 25 240 | 22 9,4 | 3,0 | 4,1 | 3,5 | 3,6 | 3,1 | 1,000 | 10,003 | 12 2,1 | 721,9 | | |
| | | 26 250 | 23 21,2 | 2,6 | 3,8 | 3,2 | 3,3 | 2,8 | 1,000 | 10,002 | 12 1,7 | 721,6 | | |
| | | 27 260 | 24 33,5 | 2,4 | 3,5 | 2,9 | 3,0 | 2,6 | 1,000 | 10,001 | 12 1,9 | 721,8 | | |
| | | 28 270 | 25 47,3 | 2,2 | 3,2 | 2,7 | 2,8 | 2,3 | 1,000 | 10,000 | 12 3,1 | 723,1 | | |
| | | 29 280 | 26 59,5 | 2,0 | 3,0 | 2,5 | 2,6 | 2,2 | 1,000 | 10,000 | 12 3,1 | 723,1 | | |
| | | 30 290 | 28 11,3 | 1,8 | 2,8 | 2,3 | 2,4 | 2,0 | 1,000 | 10,000 | 12 2,1 | 722,1 | | |
| | | 31 300 | 29 23,4 | 1,6 | 2,7 | 2,1 | 2,2 | 1,9 | 1,000 | 10,000 | 12 2,0 | 722,0 | | |
| | | | | | | | | | | 722,7 | | | | |
| Dp. Fb. P. P. | Décem. 31, | 1 0 | 31 24,0 | 20,0 | 24,0 | 22,0 | | | | | | | | |
| | | 2 10 | 32 36,5 | 18,5 | 22,5 | 20,5 | 21,2 | 17,7 | 1,006 | | | | | |
| | | 3 20 | 33 49,0 | 17,0 | 21,0 | 19,0 | 19,7 | 16,5 | 1,005 | | | | | |
| | | 4 30 | 35 1,5 | 15,5 | 19,0 | 17,2 | 18,1 | 15,2 | 1,004 | | | | | |
| | | 5 40 | 36 14,0 | 14,0 | 17,5 | 15,7 | 16,4 | 13,8 | 1,004 | | | | | |
| | | 6 50 | 37 26,8 | 12,5 | 16,5 | 14,5 | 15,1 | 12,8 | 1,003 | | | | | |
| | | 7 60 | 38 39,0 | 11,5 | 15,0 | 13,2 | 13,8 | 11,7 | 1,003 | | | | | |
| | | 8 70 | 39 51,2 | 10,5 | 14,0 | 12,2 | 12,7 | 10,8 | 1,002 | | | | | |
| | | 9 80 | 41 3,8 | 9,5 | 13,0 | 11,2 | 11,7 | 10,0 | 1,002 | | | | | |
| | | 10 90 | 42 16,0 | 8,5 | 12,2 | 10,3 | 10,7 | 9,2 | 1,002 | | | | | |
| | | 11 100 | 43 28,2 | 8,0 | 11,5 | 9,7 | 10,0 | 8,6 | 1,002 | 10,033 | 12 4,2 | 721,8 | | |
| | | 12 110 | 44 40,5 | 7,2 | 10,5 | 8,8 | 9,2 | 7,9 | 1,001 | 10,028 | 12 4,0 | 722,0 | | |
| | | 13 120 | 45 52,6 | 6,5 | 10,0 | 8,2 | 8,5 | 7,3 | 1,001 | 10,024 | 12 3,6 | 721,9 | | |
| | | 14 130 | 47 5,0 | 6,0 | 9,2 | 7,6 | 7,9 | 6,7 | 1,001 | 10,021 | 12 3,5 | 722,0 | | |
| | | 15 140 | 48 17,2 | 5,5 | 8,8 | 7,1 | 7,3 | 6,2 | 1,001 | 10,018 | 12 3,2 | 721,9 | | |
| | | 16 150 | 49 29,0 | 5,0 | 8,3 | 6,6 | 6,8 | 5,8 | 1,001 | 10,016 | 12 2,2 | 721,0 | | |
| | | 17 160 | 50 41,3 | 4,8 | 7,8 | 6,3 | 6,4 | 5,5 | 1,001 | 10,014 | 12 2,3 | 721,3 | | |
| | | 18 170 | 51 53,7 | 4,2 | 7,4 | 5,8 | 6,0 | 5,2 | 1,001 | 10,013 | 12 2,5 | 721,6 | | |
| | | 19 180 | 53 6,0 | 3,8 | 7,0 | 5,4 | 5,6 | 4,8 | 1,001 | 10,012 | 12 2,2 | 721,3 | | |
| | | 20 190 | 54 18,0 | 3,5 | 6,6 | 5,0 | 5,2 | 4,5 | 1,000 | 10,010 | 12 2,0 | 721,3 | | |
| | | 21 200 | 55 30,0 | 3,1 | 6,2 | 4,6 | 4,8 | 4,0 | 1,000 | 10,008 | 12 1,8 | 721,2 | | |
| | | 22 210 | 56 42,2 | 2,8 | 5,9 | 4,3 | 4,4 | 3,7 | 1,000 | 10,007 | 12 1,7 | 721,2 | | |
| | | 23 220 | 57 54,4 | 2,5 | 5,7 | 4,1 | 4,2 | 3,6 | 1,000 | 10,006 | 12 1,8 | 721,4 | | |
| | | 24 230 | 59 6,8 | 2,3 | 5,5 | 3,9 | 4,0 | 3,4 | 1,000 | 10,005 | 12 1,8 | 721,4 | | |
| | | 25 240 | 1 0 19,0 | 2,1 | 5,3 | 3,7 | 3,8 | 3,2 | 1,000 | 10,004 | 12 1,8 | 721,5 | | |
| | | 26 250 | 1 31,3 | 1,9 | 5,1 | 3,5 | 3,6 | 3,1 | 1,000 | 10,003 | 12 2,3 | 722,1 | | |
| | | 27 260 | 2 43,3 | 1,7 | 4,9 | 3,3 | 3,4 | 2,9 | 1,000 | 10,002 | 12 2,0 | 721,9 | | |
| | | 28 270 | 3 55,5 | 1,5 | 4,7 | 3,1 | 3,2 | 2,8 | 1,000 | 10,001 | 12 1,8 | 721,7 | | |
| | | 29 280 | 5 7,7 | 1,3 | 4,5 | 2,9 | 3,0 | 2,6 | 1,000 | 10,000 | 12 1,7 | 721,7 | | |
| | | 30 290 | 6 19,7 | 1,1 | 4,3 | 2,7 | 2,8 | 2,3 | 1,000 | 10,000 | 12 1,7 | 721,7 | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | NOMBRES D'ONDAS. OSCILLATIONS. | HEURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 ET 9. | | | | | | | | REMARQUES. | |
|--------------|------------------------|-----------------------------------|-----------------------------|--|-------------------|-------------------|-------------------|---|---------------|--|---------------------------------|------------|--|
| | | | | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | | SOMME des correc- tions pour cent oscillat. | | | |
| | | | | En parties | | | Moyenne-moyenne | en parties. | en degrés. | réelles. | infim. petites. (Moyenne) | | |
| Dp. | 1818. | 31 300 | 1 ^b 7' 32",0 | 0 ^b ,9 | 4 ^b ,1 | 2 ^b ,5 | 2 ^b ,6 | 2 ^b ,2 | 1,000 | 10,000 | 12' 2",0 | 722",0 | |
| Fb. | Décem. | 32 310 | 8 44,0 | 0,7 | 4,0 | 2,3 | 2,4 | 2,0 | 1,000 | 10,000 | 12 1,8 | 721,8 | |
| P. | 31, | 33 320 | 9 56,0 | 0,6 | 3,9 | 2,2 | 2,2 | 1,9 | 1,000 | 10,000 | 12 1,6 | 721,6 | |
| | 11 ^b mat. | 34 330 | 11 7,7 | 0,5 | 3,8 | 2,1 | 2,1 | 1,8 | 1,000 | 10,000 | 12 0,9 | 720,9 | |
| | (Suite.) | 35 340 | 12 20,0 | 0,4 | 3,7 | 2,0 | 2,0 | 1,7 | 1,000 | 10,000 | 12 1,0 | 721,0 | |
| Dp. | Décemb | 1 0 | 2 4 47,8 | 24,5 | 24,8 | 24,6 | | | | | | 721,6 | |
| Fb. | 31, | 2 10 | 6 0,5 | 22,0 | 22,3 | 22,1 | 23,3 | 19,3 | 1,007 | | | | |
| P. | à 11 ^b | 3 20 | 7 13,1 | 20,5 | 20,8 | 20,6 | 21,3 | 17,7 | 1,006 | | | | |
| | matin. | 4 30 | 8 25,6 | 18,5 | 18,8 | 18,0 | 19,6 | 16,4 | 1,005 | | | | |
| | | 5 40 | 9 37,9 | 17,3 | 17,5 | 17,4 | 18,0 | 15,1 | 1,004 | | | | |
| | | 6 50 | 10 50,4 | 15,7 | 15,9 | 15,8 | 16,6 | 14,0 | 1,004 | | | | |
| | | 7 60 | 12 3,0 | 14,8 | 15,0 | 14,9 | 15,3 | 12,9 | 1,003 | | | | |
| | | 8 70 | 13 15,4 | 13,5 | 13,7 | 13,6 | 14,2 | 12,1 | 1,003 | | | | |
| | | 9 80 | 14 27,8 | 12,7 | 12,9 | 12,8 | 13,2 | 11,3 | 1,002 | | | | |
| | | 10 90 | 15 40,2 | 11,6 | 11,8 | 11,7 | 12,2 | 10,4 | 1,002 | | | | |
| | | 11 100 | 16 52,5 | 11,0 | 11,2 | 11,1 | 11,4 | 9,7 | 1,002 | 10,038 | 12 4,7 | 721,9 | |
| | | 12 110 | 18 4,8 | 10,5 | 10,7 | 10,6 | 10,8 | 9,2 | 1,002 | 10,033 | 12 4,3 | 721,9 | |
| | | 13 120 | 19 16,8 | 9,0 | 9,2 | 9,1 | 9,8 | 8,3 | 1,001 | 10,028 | 12 3,7 | 721,7 | |
| | | 14 130 | 20 28,8 | 8,6 | 8,9 | 8,7 | 8,9 | 7,6 | 1,001 | 10,024 | 12 3,2 | 721,5 | |
| | | 15 140 | 21 41,0 | 8,3 | 8,5 | 8,4 | 8,5 | 7,3 | 1,001 | 10,021 | 12 3,1 | 721,6 | |
| | | 16 150 | 22 53,2 | 8,0 | 8,2 | 8,1 | 8,2 | 7,1 | 1,001 | 10,018 | 12 2,8 | 721,5 | |
| | | 17 160 | 24 5,7 | 7,6 | 7,7 | 7,6 | 7,8 | 6,6 | 1,001 | 10,016 | 12 2,7 | 721,5 | |
| | | 18 170 | 25 17,9 | 7,3 | 7,2 | 7,2 | 7,4 | 6,3 | 1,001 | 10,014 | 12 2,5 | 721,5 | |
| | | 19 180 | 26 30,1 | 6,6 | 6,7 | 6,6 | 6,9 | 5,9 | 1,001 | 10,013 | 12 2,3 | 721,4 | |
| | | 20 190 | 27 42,2 | 6,1 | 6,3 | 6,2 | 6,4 | 5,5 | 1,001 | 10,012 | 12 2,0 | 721,1 | |
| | | 21 200 | 28 54,5 | 5,6 | 6,0 | 5,8 | 6,0 | 5,2 | 1,001 | 10,011 | 12 2,0 | 721,2 | |
| | | 22 210 | 30 6,8 | 5,3 | 5,5 | 5,4 | 5,6 | 4,8 | 1,001 | 10,010 | 12 2,0 | 721,3 | |
| | | 23 220 | 31 18,9 | 5,0 | 5,2 | 5,1 | 5,2 | 4,5 | 1,000 | 10,009 | 12 2,1 | 721,5 | |
| | | 24 230 | 32 31,0 | 4,7 | 4,9 | 4,8 | 4,9 | 4,1 | 1,000 | 10,008 | 12 2,2 | 721,6 | |
| | | 25 240 | 33 43,2 | 4,3 | 4,5 | 4,4 | 4,6 | 3,9 | 1,000 | 10,007 | 12 2,2 | 721,7 | |
| | | 26 250 | 34 55,3 | 4,0 | 4,3 | 4,1 | 4,2 | 3,6 | 1,000 | 10,006 | 12 2,1 | 721,7 | |
| | | 27 260 | 36 7,8 | 3,8 | 4,0 | 3,9 | 4,0 | 3,4 | 1,000 | 10,005 | 12 2,1 | 721,7 | |
| | | 28 270 | 37 20,0 | 3,7 | 3,7 | 3,7 | 3,8 | 3,2 | 1,000 | 10,004 | 12 2,1 | 721,8 | |
| | | 29 280 | 38 32,0 | 3,3 | 3,5 | 3,4 | 3,5 | 3,0 | 1,000 | 10,003 | 12 1,9 | 721,7 | |
| | | 30 290 | 39 44,0 | 3,2 | 3,4 | 3,3 | 3,3 | 2,8 | 1,000 | 10,002 | 12 1,8 | 721,7 | |
| | | 31 200 | 40 56,0 | 3,0 | 3,2 | 3,1 | 3,2 | 2,8 | 1,000 | 10,001 | 12 1,5 | 721,4 | |
| | | 32 310 | 42 8,1 | 2,8 | 3,0 | 2,9 | 3,0 | 2,6 | 1,000 | 10,000 | 12 1,3 | 721,3 | |
| | | 33 320 | 43 20,4 | 2,5 | 2,7 | 2,6 | 2,7 | 2,3 | 1,000 | 10,000 | 12 1,5 | 721,5 | |
| | | 34 330 | 44 33,8 | 2,4 | 2,6 | 2,5 | 2,5 | 2,1 | 1,000 | 10,000 | 12 1,8 | 721,8 | |
| | | 35 340 | 45 45,0 | 2,3 | 2,5 | 2,4 | 2,4 | 2,0 | 1,000 | 10,000 | 12 1,8 | 721,8 | |
| | | 36 350 | 46 57,0 | 2,2 | 2,4 | 2,3 | 2,3 | 1,9 | 1,000 | 10,000 | 12 1,7 | 721,7 | |
| | | 37 360 | 48 9,2 | 2,0 | 2,2 | 2,1 | 2,2 | 1,9 | 1,000 | 10,000 | 12 1,4 | 721,4 | |
| Frey. | 1819. | 1 0 | 25 25,0 | 15,0 | 14,8 | 14,9 | | | | | | 721,6 | |
| R. | Janvier | 2 10 | 25 58,7 | 13,9 | 13,7 | 13,8 | 14,3 | 20,0 | 1,008 | | | | |
| T. | 1 ^b , | 3 20 | 26 32,8 | 13,3 | 13,0 | 13,1 | 13,4 | 18,8 | 1,007 | | | | |
| | à 9 ^b | 4 30 | 27 6,6 | 12,2 | 11,9 | 12,0 | 12,5 | 17,6 | 1,006 | | | | |
| | matin. | 5 40 | 27 41,0 | 11,4 | 11,0 | 11,2 | 11,6 | 16,4 | 1,005 | | | | |
| | | 6 50 | 28 14,8 | 10,6 | 10,2 | 10,4 | 10,8 | 15,2 | 1,004 | | | | |
| | | 7 60 | 28 48,5 | 9,7 | 9,4 | 9,5 | 9,9 | 14,1 | 1,004 | | | | |
| | | 8 70 | 29 22,3 | 9,0 | 8,6 | 8,8 | 9,1 | 13,0 | 1,003 | | | | |
| | | 9 80 | 29 56,3 | 8,5 | 8,1 | 8,3 | 8,5 | 12,2 | 1,003 | | | | |
| | | 10 90 | 30 29,9 | 7,7 | 7,2 | 7,4 | 7,8 | 11,1 | 1,002 | | | | |
| | | 11 100 | 31 3,6 | 7,2 | 6,8 | 7,0 | 7,2 | 10,3 | 1,002 | 10,044 | 5 38,6 | 337,1 | |
| | | 12 110 | 31 37,7 | 6,8 | 6,2 | 6,5 | 6,7 | 9,6 | 1,002 | 10,038 | 5 39,0 | 336,9 | |
| | | 13 120 | 32 11,2 | 6,3 | 6,0 | 6,1 | 6,3 | 9,1 | 1,001 | 10,033 | 5 38,4 | 337,3 | |
| | | 14 130 | 32 45,2 | 6,0 | 5,7 | 5,8 | 5,9 | 8,4 | 1,001 | 10,028 | 5 38,6 | 337,6 | |
| | | 15 140 | 33 18,7 | 5,6 | 5,4 | 5,5 | 5,6 | 8,0 | 1,001 | 10,024 | 5 37,7 | 336,9 | |
| | | 16 150 | 33 52,8 | 5,3 | 5,0 | 5,1 | 5,3 | 7,6 | 1,001 | 10,021 | 5 38,0 | 337,3 | |
| | | 17 160 | 34 26,0 | 5,1 | 4,9 | 5,0 | 5,0 | 7,2 | 1,001 | 10,018 | 5 37,5 | 336,9 | |
| | | 18 170 | 35 0,1 | 4,9 | 4,7 | 4,8 | 4,9 | 7,0 | 1,001 | 10,016 | 5 37,8 | 337,3 | |
| | | 19 180 | 35 34,2 | 4,6 | 4,3 | 4,4 | 4,6 | 6,6 | 1,051 | 10,014 | 5 37,9 | 337,4 | |
| | | 20 190 | 36 7,2 | 4,3 | 4,0 | 4,1 | 4,2 | 6,0 | 1,001 | 10,013 | 5 37,6 | 337,2 | |
| | | 21 200 | 36 41,6 | 4,0 | 3,7 | 3,8 | 3,9 | 5,6 | 1,001 | 10,012 | 5 38,0 | 337,6 | |

INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9.

| OBSERVATEUR. | DATES et HEURES. | NOMBRE D'OSCILLA- TIONS. | HEURE du chronomètre. | AMPLITUDES. | | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | REMARQUES. | |
|---|--|-----------------------------|-----------------------------|--------------|--------------|---------|-----------------|------|---|--|-------------------------------|---------|------------|----------------------|
| | | | | En parties | | | Moyenne-moyenne | | | | | | | |
| | | | | à gauche. | à droite. | moyenn. | | | | | | | | |
| Frey. R. T. matin. (Suite.) | 1819. | 22 | 210 | 37° 15",0 | 3°,8 | 3°,5 | 3°,6 | 3°,7 | 5°,3 | 1,001 | 10,011 | 5'37",3 | 336",9 | Température = 29°,3. |
| | Janvier | 23 | 220 | 37 49,2 | 3,7 | 3,4 | 3,5 | 3,5 | 5,1 | 1,001 | 10,010 | 5 38 ,0 | 337 ,7 | |
| | 1 ^{er} | 24 | 230 | 38 22,6 | 3,5 | 3,2 | 3,3 | 3,4 | 4,9 | 1,001 | 10,010 | 5 37 ,4 | 337 ,1 | |
| | à 9 ^h | 25 | 240 | 38 56,5 | 3,3 | 3,1 | 3,2 | 3,2 | 4,6 | 1,001 | 10,010 | 5 37 ,8 | 337 ,5 | |
| | matin. | 26 | 250 | 39 31,2 | 3,1 | 3,0 | 3,0 | 3,1 | 4,5 | 1,000 | 10,009 | 5 38 ,4 | 338 ,1 | |
| | | 27 | 260 | 40 4,0 | 3,0 | 2,9 | 2,9 | 2,9 | 4,1 | 1,000 | 10,008 | 5 38 ,0 | 337 ,7 | |
| | | 28 | 270 | 40 37,8 | 2,9 | 2,7 | 2,8 | 2,8 | 3,9 | 1,000 | 10,007 | 5 37 ,7 | 337 ,5 | |
| | | 29 | 280 | 41 11,4 | 2,7 | 2,5 | 2,6 | 2,7 | 3,8 | 1,000 | 10,006 | 5 37 ,2 | 337 ,0 | |
| | | 30 | 290 | 41 45,6 | 2,5 | 2,4 | 2,4 | 2,5 | 3,6 | 1,000 | 10,005 | 5 38 ,1 | 337 ,9 | |
| | | 31 | 300 | 42 18,8 | 2,4 | 2,3 | 2,3 | 2,3 | 3,3 | 1,000 | 10,004 | 5 37 ,2 | 337 ,1 | |
| | | 32 | 310 | 42 52,9 | 2,3 | 2,2 | 2,2 | 2,2 | 3,1 | 1,000 | 10,003 | 5 37 ,9 | 337 ,8 | |
| | | 33 | 320 | 43 26,2 | 2,2 | 2,1 | 2,1 | 2,1 | 3,0 | 1,000 | 10,002 | 5 37 ,2 | 337 ,1 | |
| | | 34 | 330 | 44 0,3 | 2,1 | 2,0 | 2,0 | 2,0 | 2,9 | 1,000 | 10,001 | 5 37 ,7 | 337 ,7 | |
| | | | | | | | | | | | | 337 ,4 | | |
| Frey. R. T. matin. | 1 ^{er} , à 10 ^h | 1 | 2 22,2 | 16,8 | 16,5 | 16,6 | | | | | | | | Température = 20°,3. |
| | | 2 | 10 | 2 56,8 | 15,8 | 15,5 | 15,6 | 16,6 | 22,2 | 1,009 | | | | |
| | | 3 | 20 | 3 30,8 | 13,9 | 13,7 | 13,8 | 14,7 | 20,5 | 1,008 | | | | |
| | | 4 | 30 | 4 4,5 | 13,4 | 13,0 | 13,2 | 13,5 | 19,0 | 1,007 | | | | |
| | | 5 | 40 | 4 38,7 | 12,8 | 12,4 | 12,6 | 12,9 | 18,1 | 1,006 | | | | |
| | | 6 | 50 | 5 12,4 | 12,3 | 12,0 | 12,1 | 12,3 | 17,3 | 1,006 | | | | |
| | | 7 | 60 | 5 46,8 | 11,5 | 11,2 | 11,3 | 11,7 | 16,5 | 1,005 | | | | |
| | | 8 | 70 | 6 20,0 | 10,4 | 10,0 | 10,2 | 0,7 | 15,1 | 1,004 | | | | |
| | | 9 | 80 | 6 54,3 | 9,4 | 9,0 | 9,2 | 9,7 | 13,8 | 1,004 | | | | |
| | | 10 | 90 | 7 27,8 | 8,8 | 8,5 | 8,6 | 8,9 | 12,7 | 1,003 | | | | |
| | | 11 | 100 | 8 1,9 | 8,0 | 8,1 | 8,0 | 8,3 | 11,9 | 1,003 | 10,055 | 5 39 ,7 | 337 ,8 | |
| | | 12 | 110 | 8 35,6 | 7,5 | 7,3 | 7,4 | 7,7 | 11,0 | 1,002 | 10,048 | 5 38 ,8 | 337 ,2 | |
| | | 13 | 120 | 9 9,3 | 7,2 | 7,0 | 7,1 | 7,2 | 10,3 | 1,002 | 10,042 | 5 38 ,5 | 337 ,1 | |
| | | 14 | 130 | 9 43,3 | 6,8 | 6,5 | 6,6 | 6,8 | 9,7 | 1,002 | 10,037 | 5 38 ,8 | 337 ,5 | |
| | | 15 | 140 | 10 16,9 | 6,4 | 6,1 | 6,2 | 6,4 | 9,2 | 1,002 | 10,033 | 5 38 ,2 | 337 ,1 | |
| | | 16 | 150 | 10 51,0 | 6,0 | 5,8 | 5,9 | 6,0 | 8,7 | 1,002 | 10,029 | 5 38 ,6 | 337 ,6 | |
| | | 17 | 160 | 11 24,2 | 5,8 | 5,6 | 5,7 | 5,8 | 8,2 | 1,001 | 10,025 | 5 37 ,4 | 336 ,6 | |
| | | 18 | 170 | 11 58,3 | 5,5 | 5,3 | 5,4 | 5,5 | 7,9 | 1,001 | 10,022 | 5 38 ,3 | 337 ,6 | |
| | | 19 | 180 | 12 32,0 | 5,2 | 5,0 | 5,1 | 5,2 | 7,4 | 1,001 | 10,019 | 5 37 ,7 | 337 ,1 | |
| | | 20 | 190 | 13 5,7 | 5,0 | 4,9 | 4,9 | 5,0 | 7,2 | 1,001 | 10,017 | 5 37 ,9 | 337 ,3 | |
| | | 21 | 200 | 13 39,7 | 4,8 | 4,6 | 4,6 | 4,7 | 6,7 | 1,001 | 10,015 | 5 37 ,8 | 337 ,3 | |
| | | 22 | 210 | 14 13,2 | 4,5 | 4,3 | 4,4 | 4,5 | 6,5 | 1,001 | 10,014 | 5 37 ,6 | 337 ,1 | |
| | | 23 | 220 | 14 47,2 | 4,2 | 4,0 | 4,1 | 4,2 | 6,0 | 1,001 | 10,013 | 5 37 ,9 | 337 ,5 | |
| | | 24 | 230 | 15 20,7 | 3,8 | 3,6 | 3,7 | 3,9 | 5,6 | 1,001 | 10,012 | 5 37 ,4 | 337 ,0 | |
| | | 25 | 240 | 15 54,9 | 3,6 | 3,5 | 3,5 | 3,6 | 5,2 | 1,001 | 10,011 | 5 38 ,0 | 337 ,6 | |
| | | 26 | 250 | 16 27,9 | 3,4 | 3,3 | 3,3 | 3,4 | 4,9 | 1,001 | 10,010 | 5 36 ,9 | 336 ,6 | |
| | | 27 | 260 | 17 2,3 | 3,3 | 3,2 | 3,2 | 3,2 | 4,6 | 1,001 | 10,010 | 5 38 ,1 | 337 ,8 | |
| | | 28 | 270 | 17 36,0 | 3,1 | 3,0 | 3,0 | 3,1 | 4,5 | 1,000 | 10,009 | 5 37 ,7 | 337 ,4 | |
| | | 29 | 280 | 18 9,5 | 2,9 | 2,8 | 2,8 | 2,9 | 4,1 | 1,000 | 10,008 | 5 37 ,5 | 337 ,3 | |
| | | 30 | 290 | 18 43,3 | 2,7 | 2,6 | 2,6 | 2,7 | 3,8 | 1,000 | 10,007 | 5 37 ,6 | 337 ,4 | |
| | | 31 | 300 | 19 16,0 | 2,5 | 2,4 | 2,4 | 2,5 | 3,6 | 1,000 | 10,006 | 5 36 ,9 | 336 ,7 | |
| | | 32 | 310 | 19 50,0 | 2,4 | 2,3 | 2,3 | 2,3 | 3,3 | 1,000 | 10,005 | 5 37 ,7 | 337 ,5 | |
| | | 33 | 320 | 20 24,2 | 2,2 | 2,1 | 2,1 | 2,2 | 3,1 | 1,000 | 10,004 | 5 37 ,0 | 336 ,9 | |
| | | 34 | 330 | 20 58,0 | 2,1 | 2,0 | 2,0 | 2,0 | 2,9 | 1,000 | 10,003 | 5 37 ,3 | 337 ,2 | |
| | | | | | | | | | | | | 337 ,3 | | |

§ IX. — Agagna, île Guam (archipel des Mariannes).

| OBSERVATEUR. | DATES et HEURES. | NUANCES D'ONDE | OSCILLATIONS. chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 7. | | | | | | | | | | REMARQUES. | |
|--------------------|---------------------------------------|----------------|-------------------------------|--|--------------------|--------------------|---|------------|--|------------------------------------|-------------------------------|--------|--|------------|--|
| | | | | AMPLITUDES. | | | CORREC- TIONS dépen- dantes de l'amplit. | | SOMME des correc- tions pour cent oscillat. | | DURÉE de cent oscillations | | | | |
| | | | | En parties | | Moyenne-moyenne | en parties. | en degrés. | réelles. | infinim. petites. (Moyennes) | | | | | |
| | | | | à gauche. | à droite. | Moyenn. | en parties. | en degrés. | réelles. | infinim. petites. (Moyennes) | | | | | |
| Frey. Lm. P. | 1819. | 1 0 | 6 ^b 353' 3",2 | 24 ^p ,2 | 23 ^p ,2 | 23 ^p ,7 | | | | | | | | | |
| | Mai | 2 10 | 36 48,9 | 21,0 | 20,3 | 20,7 | 22 ^p ,2 | 18°,5 | 1,006 | | | | | | |
| | 24, à 4 ^h soir. | 3 20 | 38 4,1 | 18,8 | 17,9 | 18,8 | 19,7 | 16,5 | 1,005 | | | | | | |
| | | 4 30 | 39 19,7 | 16,4 | 15,6 | 16,0 | 17,4 | 14,7 | 1,004 | | | | | | |
| | | 5 40 | 40 34,8 | 15,0 | 14,4 | 14,7 | 15,3 | 12,9 | 1,003 | | | | | | |
| | | 6 50 | 41 50,0 | 13,6 | 12,6 | 13,1 | 13,9 | 11,8 | 1,003 | | | | | | |
| | | 7 60 | 43 5,0 | 12,2 | 11,0 | 11,6 | 12,3 | 10,4 | 1,002 | | | | | | |
| | | 8 70 | 44 20,2 | 10,3 | 9,3 | 9,8 | 10,7 | 8,2 | 1,002 | | | | | | |
| | | 9 80 | 45 35,3 | 9,0 | 7,4 | 8,2 | 9,0 | 7,7 | 1,001 | | | | | | |
| | | 10 90 | 46 50,4 | 7,8 | 6,4 | 7,1 | 7,6 | 6,5 | 1,001 | | | | | | |
| | | 11 100 | 48 5,4 | 6,7 | 5,5 | 6,1 | 6,6 | 5,7 | 1,001 | 10,028 | 12'32",2 | 750",1 | | | |
| | | 12 110 | 49 20,5 | 5,8 | 4,8 | 5,3 | 5,7 | 4,9 | 1,001 | 10,023 | 12 31,6 | 749,9 | | | |
| | | 13 120 | 50 35,3 | 5,1 | 4,1 | 4,6 | 5,0 | 4,3 | 1,000 | 10,018 | 12 31,2 | 749,8 | | | |
| | | 14 130 | 51 50,3 | 4,6 | 3,6 | 4,1 | 4,3 | 3,6 | 1,000 | 10,014 | 12 30,6 | 749,6 | | | |
| | | 15 140 | 53 5,4 | 4,1 | 3,3 | 3,7 | 3,9 | 3,3 | 1,000 | 10,011 | 12 30,6 | 749,8 | | | |
| | | 16 150 | 54 20,4 | 3,6 | 3,1 | 3,3 | 3,5 | 3,0 | 1,000 | 10,008 | 12 30,4 | 749,8 | | | |
| | | 17 160 | 55 35,4 | 3,2 | 2,8 | 3,0 | 3,1 | 2,7 | 1,000 | 10,006 | 12 30,4 | 749,9 | | | |
| | | 18 170 | 56 50,4 | 3,0 | 2,6 | 2,8 | 2,9 | 2,4 | 1,000 | 10,004 | 12 30,2 | 749,9 | | | |
| | | 19 180 | 58 5,4 | 2,8 | 2,4 | 2,6 | 2,7 | 2,3 | 1,000 | 10,003 | 12 30,1 | 749,9 | | | |
| | | 20 190 | 59 20,6 | 2,6 | 2,1 | 2,3 | 2,4 | 2,1 | 1,000 | 10,002 | 12 30,2 | 750,0 | | | |
| | | 21 200 | 7 0 35,6 | 2,4 | 1,8 | 2,1 | 2,2 | 1,9 | 1,000 | 10,001 | 12 30,2 | 750,1 | | | |
| | | | | | | | | | | | | | | 749,9 | |
| Frey. Lm. P. | 25, à 7 ^h 50' matin. | 1 0 | 10 31 13,3 | 22,5 | 23,4 | 22,9 | | | | | | | | | |
| | | 2 10 | 32 29,0 | 20,7 | 21,4 | 21,0 | 21,9 | 18,2 | 1,006 | | | | | | |
| | | 3 20 | 33 44,3 | 18,6 | 19,3 | 18,9 | 20,0 | 16,7 | 1,006 | | | | | | |
| | | 4 30 | 34 59,3 | 17,0 | 17,9 | 17,4 | 18,1 | 15,2 | 1,004 | | | | | | |
| | | 5 40 | 36 14,4 | 15,5 | 16,0 | 15,7 | 16,5 | 13,9 | 1,004 | | | | | | |
| | | 6 50 | 37 29,9 | 13,4 | 14,5 | 13,9 | 14,8 | 12,5 | 1,003 | | | | | | |
| | | 7 60 | 38 44,9 | 11,8 | 12,4 | 12,1 | 13,0 | 11,1 | 1,002 | | | | | | |
| | | 8 70 | 39 50,9 | 10,7 | 11,8 | 11,2 | 11,6 | 9,9 | 1,002 | | | | | | |
| | | 9 80 | 41 15,0 | 9,9 | 10,7 | 10,3 | 10,7 | 9,2 | 1,002 | | | | | | |
| | | 10 90 | 42 30,1 | 9,2 | 9,8 | 9,5 | 9,9 | 8,4 | 1,001 | | | | | | |
| | | 11 100 | 43 45,1 | 8,6 | 9,1 | 8,8 | 9,1 | 7,8 | 1,001 | 10,031 | 12 31,8 | 749,5 | | | |
| | | 12 110 | 45 0,0 | 8,2 | 8,7 | 8,4 | 8,6 | 7,4 | 1,001 | 10,026 | 12 31,0 | 749,1 | | | |
| | | 13 120 | 46 15,1 | 7,7 | 8,2 | 7,9 | 8,1 | 7,0 | 1,001 | 10,021 | 12 30,8 | 749,2 | | | |
| | | 14 130 | 47 30,0 | 7,0 | 7,5 | 7,2 | 7,5 | 6,4 | 1,001 | 10,018 | 12 30,7 | 749,4 | | | |
| | | 15 140 | 48 45,0 | 5,3 | 5,9 | 5,6 | 6,4 | 5,5 | 1,001 | 10,015 | 12 30,6 | 749,5 | | | |
| | | 16 150 | 50 0,0 | 4,8 | 5,5 | 5,1 | 5,3 | 4,5 | 1,001 | 10,013 | 12 30,1 | 749,1 | | | |
| | | 17 160 | 51 15,0 | 4,4 | 5,0 | 4,7 | 4,9 | 4,1 | 1,000 | 10,011 | 12 30,1 | 749,3 | | | |
| | | 18 170 | 52 29,8 | 4,0 | 4,7 | 4,3 | 4,5 | 3,8 | 1,000 | 10,009 | 12 29,9 | 749,2 | | | |
| | | 19 180 | 53 44,7 | 3,8 | 4,4 | 4,1 | 4,2 | 3,6 | 1,000 | 10,007 | 12 29,7 | 749,2 | | | |
| | | 20 190 | 54 59,7 | 3,2 | 3,9 | 3,5 | 3,8 | 3,2 | 1,000 | 10,006 | 12 29,6 | 749,2 | | | |
| | | 21 200 | 56 14,5 | 2,8 | 3,5 | 3,1 | 3,3 | 2,8 | 1,000 | 10,005 | 12 29,4 | 749,0 | | | |
| | | 22 210 | 57 29,3 | 2,4 | 3,1 | 2,7 | 2,9 | 2,4 | 1,000 | 10,004 | 12 29,3 | 749,0 | | | |
| | | 23 220 | 58 44,3 | 2,1 | 2,9 | 2,5 | 2,6 | 2,2 | 1,000 | 10,003 | 12 29,2 | 749,0 | | | |
| | | 24 230 | 59 50,3 | 1,9 | 2,7 | 2,3 | 2,4 | 2,0 | 1,000 | 10,002 | 12 29,3 | 749,1 | | | |
| | | 25 240 | 1 14,3 | 1,7 | 2,5 | 2,1 | 2,2 | 1,9 | 1,000 | 10,001 | 12 29,3 | 749,2 | | | |
| | | 26 250 | 11 2 29,2 | 1,5 | 2,3 | 1,9 | 2,0 | 1,7 | 1,000 | 10,000 | 12 29,2 | 749,2 | | | |
| | | | | | | | | | | | | | | 749,2 | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 ET 9. | | | | | | | | | | | | | | REMARQUES. | |
|--------------------|--|----------------------------------|-----------------------------|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---|--|-------------------------------|----------------------------------|--|---|--|
| | DATES et HEURES. | Nombre d'ondes. oscillations. | BRURE du chronomètre. | AMPLITUDES. | | | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | | |
| | | | | En parties | | | Moyenne-moyenne | | | | | réelles. | infim. petites. (Moyennes) | | | |
| | | | | à gauche. | à droite. | moyenn. | en parties. | en degrés. | | | | | | | | |
| Frey. Lm. P. | 1819. Mois 25, à 8° 5' matin. | 1 | 0 | 11 ^h 17' 59",2 | 23 [°] ,4 | 24 [°] ,5 | 23 [°] ,9 | | | | | | | | Température = 29 ⁴ ,1. Aiguille n° 7. | |
| | | 2 | 10 | 19 14,7 | 21,0 | 22,0 | 21,5 | 22 [°] ,7 | 18 [°] ,9 | 1,007 | | | | | | |
| | | 3 | 20 | 20 30,0 | 19,2 | 20,3 | 19,7 | 20,6 | 17,2 | 1,006 | | | | | | |
| | | 4 | 30 | 21 45,0 | 17,3 | 18,2 | 17,7 | 18,7 | 14,6 | 1,004 | | | | | | |
| | | 5 | 40 | 23 0,4 | 15,1 | 16,0 | 15,5 | 16,6 | 14,0 | 1,004 | | | | | | |
| | | 6 | 50 | 24 15,7 | 12,9 | 14,8 | 14,3 | 14,9 | 12,6 | 1,003 | | | | | | |
| | | 7 | 60 | 25 30,8 | 12,5 | 13,3 | 12,9 | 13,6 | 11,6 | 1,003 | | | | | | |
| | | 8 | 70 | 26 45,9 | 11,0 | 11,9 | 11,4 | 12,1 | 10,3 | 1,002 | | | | | | |
| | | 9 | 80 | 28 1,0 | 9,7 | 10,7 | 10,2 | 10,8 | 9,2 | 1,002 | | | | | | |
| | | 10 | 90 | 29 16,0 | 9,0 | 9,8 | 9,4 | 9,8 | 8,3 | 1,001 | | | | | | |
| | | 11 | 100 | 30 31,0 | 8,2 | 9,0 | 8,6 | 9,0 | 7,7 | 1,001 | 10,033 | 12'31"8 | 749",3 | | | |
| | | 12 | 110 | 31 46,0 | 7,5 | 8,3 | 7,9 | 8,2 | 7,1 | 1,001 | 10,027 | 12 31,3 | 749,3 | | | |
| | | 13 | 120 | 33 1,0 | 6,8 | 7,6 | 7,2 | 7,5 | 6,4 | 1,001 | 10,022 | 12 31,0 | 749,4 | | | |
| | | 14 | 130 | 34 15,9 | 6,1 | 7,0 | 6,5 | 6,8 | 5,8 | 1,001 | 10,019 | 12 30,9 | 749,5 | | | |
| | | 15 | 140 | 35 31,0 | 5,5 | 6,4 | 5,9 | 6,2 | 5,4 | 1,001 | 10,016 | 12 30,6 | 749,4 | | | |
| | | 16 | 150 | 36 45,8 | 5,1 | 6,0 | 5,5 | 5,7 | 4,9 | 1,001 | 10,014 | 12 30,1 | 749,1 | | | |
| | | 17 | 160 | 38 0,8 | 4,6 | 5,3 | 4,9 | 5,2 | 4,5 | 1,001 | 10,012 | 12 30,0 | 749,1 | | | |
| | | 18 | 170 | 39 15,8 | 4,2 | 5,0 | 4,6 | 4,7 | 4,0 | 1,000 | 10,010 | 12 29,9 | 749,2 | | | |
| | | 19 | 180 | 40 30,6 | 3,8 | 4,6 | 4,2 | 4,4 | 3,7 | 1,000 | 10,008 | 12 29,6 | 749,0 | | | |
| | | 20 | 190 | 41 45,6 | 3,4 | 4,2 | 3,8 | 4,0 | 3,4 | 1,000 | 10,007 | 12 29,6 | 749,1 | | | |
| | | 21 | 200 | 43 0,5 | 3,1 | 3,8 | 3,4 | 3,6 | 3,1 | 1,000 | 10,006 | 12 29,5 | 749,1 | | | |
| | | 22 | 210 | 44 15,3 | 2,7 | 3,4 | 3,0 | 3,2 | 2,8 | 1,000 | 10,005 | 12 29,3 | 748,9 | | | |
| | | 23 | 220 | 45 30,1 | 2,3 | 3,1 | 2,7 | 2,8 | 2,3 | 1,000 | 10,004 | 12 29,1 | 748,8 | | | |
| | | 24 | 230 | 46 45,2 | 2,0 | 2,7 | 2,3 | 2,5 | 2,1 | 1,000 | 10,003 | 12 29,3 | 749,1 | | | |
| | | 25 | 240 | 48 0,0 | 1,7 | 2,5 | 2,1 | 2,2 | 1,9 | 1,000 | 10,002 | 12 29,0 | 748,9 | | | |
| | | 26 | 250 | 49 15,0 | 1,5 | 2,3 | 1,9 | 2,0 | 1,7 | 1,000 | 10,001 | 12 29,2 | 749,1 | | 749,1 | |
| Lm. P. Db. | 27, à 1 ^h 52' soir. | 1 | 0 | 4 35 55,0 | 22,0 | 22,6 | 22,3 | | | | | | | | Température = 30 ⁴ ,0. Aiguille n° 9. | |
| | | 2 | 10 | 36 29,3 | 18,5 | 19,0 | 18,7 | 20,5 | 27,6 | 1,015 | | | | | | |
| | | 3 | 20 | 37 4,4 | 16,0 | 16,5 | 16,2 | 17,4 | 23,8 | 1,011 | | | | | | |
| | | 4 | 30 | 37 39,3 | 12,6 | 13,7 | 13,1 | 14,6 | 20,4 | 1,008 | | | | | | |
| | | 5 | 40 | 38 14,3 | 10,5 | 11,4 | 11,0 | 12,1 | 17,0 | 1,006 | | | | | | |
| | | 6 | 50 | 38 49,0 | 9,1 | 9,8 | 9,4 | 10,2 | 14,5 | 1,004 | | | | | | |
| | | 7 | 60 | 39 24,3 | 7,3 | 7,8 | 7,6 | 8,5 | 12,5 | 1,003 | | | | | | |
| | | 8 | 70 | 39 59,0 | 6,2 | 6,7 | 6,4 | 7,0 | 10,1 | 1,002 | | | | | | |
| | | 9 | 80 | 40 53,3 | 5,2 | 5,7 | 5,5 | 6,0 | 8,7 | 1,002 | | | | | | |
| | | 10 | 90 | 41 7,6 | 4,1 | 4,6 | 4,3 | 4,9 | 7,0 | 1,001 | | | | | | |
| | | 11 | 100 | 41 41,4 | 3,4 | 3,8 | 3,6 | 4,0 | 5,8 | 1,001 | 10,053 | 5 46,4 | 344,6 | | | |
| | | 12 | 110 | 42 15,7 | 3,0 | 3,4 | 3,2 | 3,4 | 4,9 | 1,001 | 10,039 | 5 46,4 | 345,1 | | | |
| | | 13 | 120 | 42 49,3 | 2,6 | 3,0 | 2,8 | 3,0 | 4,4 | 1,000 | 10,028 | 5 44,9 | 343,9 | | | |
| | | 14 | 130 | 43 23,0 | 2,3 | 2,7 | 2,5 | 2,7 | 3,8 | 1,000 | 10,020 | 5 43,7 | 343,0 | | | |
| | | 15 | 140 | 43 56,8 | 2,1 | 2,4 | 2,2 | 2,3 | 3,3 | 1,000 | 10,014 | 5 42,5 | 342,0 | | | |
| | | 16 | 150 | 44 30,3 | 1,9 | 2,1 | 2,0 | 2,1 | 3,0 | 1,000 | 10,010 | 5 41,3 | 341,0 | | 343,3 | |

§ X. — *A Raheina, île Mowi (archipel des Sandwich).*

| OBSERVATEUR. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 ET 9. | | | | | | | | | | REMARQUES. | |
|-------------------|---------------------------------|--|-------------------------|-----------------------------|-------------|-------|-----------------|----------------|---|--|-------------------------------|----------------------------------|--|
| | | n° d'ordre. | oscillations. | heure du chronomètre. | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | |
| | | | | | En parties | | Moyenne-moyenne | en parties. | | | réelles. | infima- petites. (Moyenne) | |
| Lm. R. B. | 1819. août 21, à midi. | 1 0 | 5 ^b 3' 28",0 | 18°,0 | 17°,0 | 17°,5 | | | | | | | |
| | | 2 10 | 4 5,3 | 17,0 | 16,0 | 16,5 | 17°,0 | 23°,3 | 1,010 | | | | |
| | | 3 20 | 4 42,7 | 15,0 | 14,0 | 14,5 | 15,5 | 21,5 | 1,009 | | | | |
| | | 4 30 | 5 20,0 | 13,0 | 12,0 | 12,5 | 13,5 | 19,0 | 1,007 | | | | |
| | | 5 40 | 5 57,3 | 12,0 | 11,2 | 11,6 | 12,0 | 16,9 | 1,006 | | | | |
| | | 6 50 | 6 34,5 | 11,0 | 10,0 | 10,5 | 11,0 | 15,6 | 1,005 | | | | |
| | | 7 60 | 7 11,7 | 10,0 | 9,0 | 9,5 | 10,0 | 14,2 | 1,004 | | | | |
| | | 8 70 | 7 48,7 | 3,9 | 8,0 | 8,4 | 8,0 | 12,7 | 1,003 | | | | |
| | | 9 80 | 8 26,0 | 8,0 | 7,2 | 7,6 | 8,0 | 11,5 | 1,002 | | | | |
| | | 10 90 | 9 3,0 | 7,0 | 6,2 | 6,6 | 7,1 | 10,2 | 1,002 | | | | |
| | | 11 100 | 9 40,0 | 6,6 | 5,5 | 6,0 | 6,3 | 9,1 | 1,002 | 10,050 | 6'12",0 | 370",1 | |
| | | 12 110 | 10 17,3 | 6,0 | 5,4 | 5,7 | 5,8 | 8,2 | 1,001 | 10,041 | 6 11,0 | 370 ,5 | |
| | | 13 120 | 10 54,3 | 5,5 | 4,6 | 5,0 | 5,3 | 7,6 | 1,001 | 10,033 | 6 11,6 | 370 ,4 | |
| | | 14 130 | 11 31,3 | 4,8 | 4,2 | 4,5 | 4,7 | 6,7 | 1,001 | 10,027 | 6 11,3 | 370 ,3 | |
| | | 15 140 | 12 8,3 | 4,5 | 3,8 | 4,1 | 4,3 | 6,2 | 1,001 | 10,022 | 6 11,0 | 370 ,2 | |
| | | 16 150 | 12 45,3 | 4,0 | 3,3 | 3,6 | 3,8 | 5,4 | 1,001 | 10,018 | 6 10,8 | 370 ,1 | |
| | | 17 160 | 13 22,5 | 3,8 | 3,1 | 3,4 | 3,5 | 5,1 | 1,001 | 10,015 | 6 10,8 | 370 ,2 | |
| | | 18 170 | 13 59,0 | 3,5 | 2,8 | 3,1 | 3,2 | 4,7 | 1,001 | 10,013 | 6 10,3 | 369 ,8 | |
| | | 19 180 | 14 36,0 | 3,3 | 2,5 | 2,9 | 3,0 | 4,4 | 1,000 | 10,011 | 6 10,0 | 369 ,6 | |
| | | 20 190 | 15 13,3 | 3,0 | 2,2 | 2,6 | 2,7 | 3,8 | 1,000 | 10,009 | 6 10,3 | 370 ,0 | |
| | | 21 200 | 15 50,3 | 2,7 | 2,0 | 2,3 | 2,4 | 3,4 | 1,000 | 10,007 | 6 10,3 | 370 ,0 | |
| | | 22 210 | 16 27,3 | 2,6 | 1,9 | 2,2 | 2,2 | 3,2 | 1,000 | 10,006 | 6 10,0 | 369 ,8 | |
| | | 23 220 | 17 4,3 | 2,5 | 1,8 | 2,1 | 2,1 | 3,0 | 1,000 | 10,005 | 6 10,0 | 369 ,8 | |
| | | 24 230 | 17 41,7 | 2,3 | 1,6 | 1,9 | 2,0 | 2,9 | 1,000 | 10,004 | 6 10,4 | 370 ,3 | |
| | | | | | | | | | | | | 370 ,1 | |
| Dp. Fb. Db. | Août 22, matin. | 1 0 | 9 52 17,5 | 22,0 | 22,8 | 22,4 | | | | | | | |
| | | 2 10 | 53 37,0 | 20,6 | 21,6 | 21,1 | 21,7 | 18,1 | 1,006 | | | | |
| | | 3 20 | 54 57,0 | 19,0 | 19,7 | 19,3 | 20,2 | 16,9 | 1,006 | | | | |
| | | 4 30 | 56 16,5 | 17,7 | 18,0 | 17,8 | 18,5 | 15,5 | 1,004 | | | | |
| | | 5 40 | 57 36,3 | 16,0 | 16,6 | 16,3 | 17,0 | 14,4 | 1,004 | | | | |
| | | 6 50 | 58 56,0 | 14,0 | 14,8 | 14,4 | 15,3 | 12,9 | 1,003 | | | | |
| | | 7 60 | 10 0 15,6 | 13,0 | 13,6 | 13,3 | 13,8 | 11,7 | 1,003 | | | | |
| | | 8 70 | 1 35,2 | 11,3 | 11,8 | 11,5 | 12,4 | 10,5 | 1,002 | | | | |
| | | 9 80 | 2 54,0 | 10,0 | 10,3 | 10,1 | 10,8 | 9,2 | 1,002 | | | | |
| | | 10 90 | 4 14,0 | 9,0 | 9,6 | 9,3 | 9,7 | 8,3 | 1,001 | | | | |
| | | 11 100 | 5 33,0 | 8,5 | 9,0 | 8,7 | 9,0 | 7,7 | 1,001 | 10,032 | 13 15,5 | 793 ,0 | |
| | | 12 110 | 6 52,5 | 7,6 | 8,2 | 7,9 | 8,3 | 7,1 | 1,001 | 10,027 | 13 15,5 | 793 ,4 | |
| | | 13 120 | 8 12,0 | 7,0 | 7,4 | 7,2 | 7,5 | 6,4 | 1,001 | 10,022 | 13 15,0 | 793 ,3 | |
| | | 14 130 | 9 31,0 | 6,5 | 6,8 | 6,6 | 6,9 | 5,9 | 1,001 | 10,019 | 13 14,5 | 793 ,0 | |
| | | 15 140 | 10 50,6 | 5,8 | 6,2 | 6,0 | 6,3 | 5,4 | 1,001 | 10,016 | 13 14,3 | 793 ,0 | |
| | | 16 150 | 12 10,0 | 5,6 | 5,8 | 5,7 | 5,8 | 4,9 | 1,001 | 10,014 | 13 14,0 | 792 ,9 | |
| | | 17 160 | 13 29,2 | 5,2 | 5,5 | 5,3 | 5,5 | 4,7 | 1,001 | 10,012 | 13 13,6 | 792 ,6 | |
| | | 18 170 | 14 48,4 | 4,8 | 5,0 | 4,9 | 5,1 | 4,4 | 1,000 | 10,010 | 13 13,2 | 792 ,4 | |
| | | 19 180 | 16 8,0 | 4,3 | 4,7 | 4,5 | 4,7 | 4,0 | 1,000 | 10,008 | 13 14,0 | 793 ,4 | |
| | | 20 190 | 17 27,4 | 4,0 | 3,8 | 3,9 | 4,2 | 3,6 | 1,000 | 10,007 | 13 13,4 | 792 ,8 | |
| | | 21 200 | 18 46,0 | 3,4 | 3,8 | 3,6 | 3,7 | 3,2 | 1,000 | 10,006 | 13 13,0 | 792 ,5 | |
| | | 22 210 | 20 6,0 | 3,0 | 3,4 | 3,2 | 3,4 | 2,9 | 1,000 | 10,005 | 13 13,5 | 793 ,1 | |
| | | 23 220 | 21 26,0 | 2,8 | 3,0 | 2,9 | 3,0 | 2,6 | 1,000 | 10,004 | 13 14,0 | 793 ,7 | |
| | | 24 230 | 22 44,7 | 2,5 | 2,7 | 2,6 | 2,7 | 2,3 | 1,000 | 10,003 | 13 13,7 | 793 ,5 | |
| | | 25 240 | 24 3,5 | 2,3 | 2,6 | 2,4 | 2,5 | 2,1 | 1,000 | 10,002 | 13 12,9 | 792 ,7 | |
| | | 26 250 | 25 23,0 | 2,1 | 2,3 | 2,2 | 2,3 | 1,9 | 1,000 | 10,001 | 13 13,0 | 792 ,9 | |
| | | | | | | | | | | | | 793 ,0 | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | NOMBRE d'ORDRES. OSCILLATIONS. | HEURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 7. | | | | | | | | REMARQUES. | |
|---------------|--|--------------------------------------|-----------------------------|--|--------------------|--------------------|--------------------|---|---------------|--|-------------------------------------|-----------------------------------|--|
| | | | | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | | SOMMES des correct. pour cent oscilla- tions. | | | |
| | | | | En parties | | | Moyenne-moyenne | on parties. | on degrés. | réelles. | Infiniment petites. (Moyenne) | | |
| Db. | Dp. Fb. Db. | | | à gauche. | à droite. | Moyenn. | | | | | | | |
| | 1819. Août 22, à midi 40'. | 1 0 | 11 ^b 7' 26",0 | 20 ^b ,0 | 19 ^b ,3 | 19 ^b ,6 | | | | | | Température = 29 ^d ,9. | |
| | | 2 10 | 8 45,4 | 18,0 | 17,0 | 17,5 | 18 ^b ,5 | 15 ^b ,5 | 1,004 | | | | |
| | | 3 20 | 10 5,0 | 16,0 | 15,0 | 15,5 | 16,5 | 13,9 | 1,004 | | | | |
| | | 4 30 | 11 24,5 | 14,2 | 13,2 | 13,7 | 14,6 | 12,4 | 1,003 | | | | |
| | | 5 40 | 12 43,8 | 13,0 | 12,0 | 12,5 | 13,1 | 11,2 | 1,002 | | | | |
| | | 6 50 | 14 3,0 | 12,0 | 11,0 | 11,5 | 12,0 | 10,2 | 1,002 | | | | |
| | | 7 60 | 15 22,4 | 11,0 | 10,0 | 10,5 | 11,0 | 9,4 | 1,002 | | | | |
| | | 8 70 | 16 42,0 | 9,6 | 8,6 | 9,1 | 9,8 | 8,3 | 1,001 | | | | |
| | | 9 80 | 18 1,0 | 9,0 | 8,0 | 8,5 | 8,8 | 7,5 | 1,001 | | | | |
| | | 10 90 | 19 20,7 | 8,0 | 7,0 | 7,5 | 8,0 | 6,9 | 1,001 | | | | |
| | | 11 100 | 20 40,0 | 7,3 | 6,3 | 6,8 | 7,1 | 6,1 | 1,001 | 10,021 | 13'14",0 | 792",3 | |
| | | 12 110 | 21 59,0 | 6,6 | 5,8 | 6,2 | 6,5 | 5,6 | 1,001 | 10,018 | 13 13,6 | 792 ,2 | |
| | | 13 120 | 23 19,0 | 6,0 | 5,0 | 5,5 | 5,8 | 4,9 | 1,001 | 10,015 | 13 14,0 | 792 ,8 | |
| | | 14 130 | 24 38,0 | 5,6 | 4,8 | 5,2 | 5,3 | 4,5 | 1,000 | 10,012 | 13 13,5 | 792 ,5 | |
| | | 15 140 | 25 57,6 | 5,2 | 4,4 | 4,8 | 5,0 | 4,3 | 1,000 | 10,010 | 13 13,8 | 793 ,0 | |
| | | 16 150 | 27 16,6 | 4,8 | 4,0 | 4,4 | 4,6 | 3,9 | 1,000 | 10,008 | 13 13,6 | 793 ,0 | |
| | | 17 160 | 28 35,8 | 4,2 | 3,2 | 3,7 | 4,0 | 3,4 | 1,000 | 10,006 | 13 14,0 | 792 ,9 | |
| | | 18 170 | 29 55,2 | 3,6 | 2,8 | 3,2 | 3,4 | 2,9 | 1,000 | 10,005 | 13 13,4 | 792 ,8 | |
| | | 19 180 | 31 14,8 | 2,4 | 1,4 | 1,9 | 2,5 | 2,1 | 1,000 | 10,004 | 13 13,8 | 793 ,5 | |
| | | | | | | | | | | | | 792 ,8 | |

§ XI.— A Sydney, Port-Jackson (Nouvelle-Hollande).

| OBSERVATIONS. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 9 ET 7. | | | | | | | | | | | | | REMARQUES. | |
|--------------------|--|--|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---|--|-------------------------------|-----------------------------------|--|---|--|
| | DATES et HEURES. | N° SÉRIE d'ORDRE. oscillations. | SUITE du chronomètre. | AMPLITudes. | | | | | CORRAC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | | |
| | | | | En parties | | Moyenne-moyenne | | | | | réelles. | infinim. petites. (Moyenne) | | | |
| | | | | à gauche. | à droite. | Moyen. | en parties. | en degrés. | | | | | | | |
| Am. R. Fr. | 1819. | 1 0 | 0 ^h 30' 13",3 | 20 ^o ,3 | 23 ^o ,0 | 21 ^o ,6 | | | | | | | | Température = 22°,2. Aiguille n° 9. | |
| | Décem. | 2 10 | 30 52,7 | 20,5 | 24,0 | 22,2 | 21 ^o ,0 | 20 ^o ,3 | 1,016 | | | | | | |
| | 10, | 3 20 | 31 32,7 | 19,0 | 22,0 | 20,5 | 21,3 | 28,5 | 1,016 | | | | | | |
| | à midi | 4 30 | 32 12,5 | 17,3 | 20,5 | 18,9 | 19,7 | 26,7 | 1,014 | | | | | | |
| | 15" | 5 40 | 32 52,3 | 16,0 | 18,0 | 17,0 | 17,9 | 24,5 | 1,011 | | | | | | |
| | | 6 50 | 33 32,0 | 13,7 | 15,9 | 14,8 | 15,9 | 22,0 | 1,009 | | | | | | |
| | | 7 60 | 34 11,7 | 12,0 | 14,0 | 13,0 | 13,0 | 19,5 | 1,007 | | | | | | |
| | | 8 70 | 34 51,3 | 9,5 | 11,6 | 10,5 | 11,7 | 16,5 | 1,006 | | | | | | |
| | | 9 80 | 35 31,0 | 8,8 | 11,0 | 9,9 | 10,2 | 14,4 | 1,004 | | | | | | |
| | | 10 90 | 36 11,0 | 7,5 | 9,3 | 8,4 | 4,1 | 13,0 | 1,003 | | | | | | |
| | | 11 100 | 36 50,3 | 5,6 | 8,0 | 7,2 | 7,8 | 11,1 | 1,002 | 10,088 | 6'37",0 | 393",5 | | | |
| | | 12 110 | 37 30,0 | 5,0 | 7,0 | 6,0 | 6,6 | 9,5 | 1,002 | 10,074 | 6 37,3 | 394,4 | | | |
| | | 13 120 | 38 10,0 | 5,0 | 6,5 | 5,7 | 5,8 | 8,2 | 1,001 | 10,059 | 6 37,3 | 395,0 | | | |
| | | 14 130 | 38 49,5 | 3,0 | 5,0 | 4,0 | 4,8 | 6,8 | 1,001 | 10,046 | 6 37,0 | 395,2 | | | |
| | | 15 140 | 39 29,3 | 2,3 | 4,4 | 3,3 | 3,6 | 5,2 | 1,001 | 10,036 | 6 37,0 | 395,2 | | | |
| | | 16 150 | 40 8,3 | 2,0 | 4,0 | 3,0 | 3,1 | 4,5 | 1,001 | 10,028 | 6 36,3 | 395,2 | | | |
| Am. R. Fr. | à midi | 1 0 | 1 27,0 | 16,0 | 17,0 | 16,5 | | | | | | | | 394,8 Température = 22°,2. | |
| | 45' | 2 10 | 2 7,0 | 14,3 | 15,5 | 14,9 | 15,7 | 21,7 | 1,009 | | | | | | |
| | | 3 20 | 2 46,3 | 12,7 | 14,0 | 13,3 | 14,1 | 19,7 | 1,008 | | | | | | |
| | | 4 30 | 3 26,0 | 10,2 | 10,6 | 10,4 | 11,8 | 16,6 | 1,006 | | | | | | |
| | | 5 40 | 4 5,5 | 9,0 | 9,5 | 9,2 | 9,8 | 13,9 | 1,004 | | | | | | |
| | | 6 50 | 4 45,3 | 7,2 | 7,5 | 7,3 | 8,2 | 11,7 | 1,003 | | | | | | |
| | | 7 60 | 5 24,5 | 6,9 | 7,0 | 6,9 | 7,1 | 10,2 | 1,002 | | | | | | |
| | | 8 70 | 6 4,0 | 6,5 | 7,0 | 6,7 | 6,8 | 9,7 | 1,002 | | | | | | |
| | | 9 80 | 6 44,0 | 5,9 | 6,3 | 6,1 | 6,4 | 9,2 | 1,002 | | | | | | |
| | | 10 90 | 7 23,7 | 5,0 | 5,4 | 5,2 | 5,6 | 8,0 | 1,001 | | | | | | |
| | | 11 100 | 8 3,0 | 4,4 | 5,0 | 4,7 | 4,9 | 7,0 | 1,001 | 10,038 | 6 36,0 | 394,5 | | | |
| | | 12 110 | 8 42,3 | 4,0 | 4,5 | 4,2 | 4,4 | 6,3 | 1,001 | 10,030 | 6 35,3 | 394,1 | | | |
| | | 13 120 | 9 22,0 | 3,2 | 4,0 | 3,6 | 3,9 | 5,6 | 1,001 | 10,023 | 6 35,7 | 394,8 | | | |
| | | 14 130 | 10 1,7 | 3,0 | 3,7 | 3,3 | 3,4 | 4,9 | 1,001 | 10,018 | 6 35,7 | 395,0 | | | |
| | | 15 140 | 10 41,0 | 3,0 | 3,2 | 3,1 | 3,2 | 4,6 | 1,001 | 10,015 | 6 35,5 | 394,9 | | | |
| | | 16 150 | 11 21,0 | 2,8 | 3,0 | 2,9 | 3,0 | 4,4 | 1,000 | 10,012 | 6 35,7 | 395,2 | | | |
| | | 17 160 | 12 0,7 | 2,5 | 2,6 | 2,5 | 2,7 | 3,8 | 1,000 | 10,010 | 6 36,2 | 395,8 | | | |
| rey. Am. Fr. | Décem. | 1 0 | 10 9 36,0 | 24,0 | 24,0 | 24,0 | | | | | | | | 394,9 Température = 20°,7. Aiguille n° 7. | |
| | 22 , | 2 10 | 11 1,2 | 22,0 | 22,0 | 22,0 | 28,0 | 19,1 | 1,007 | | | | | | |
| | à 10° 21' | 3 20 | 12 26,2 | 21,0 | 20,7 | 20,8 | 21,4 | 17,8 | 1,006 | | | | | | |
| | matin. | 4 30 | 13 51,3 | 17,5 | 17,3 | 17,4 | 19,1 | 16,0 | 1,005 | | | | | | |
| | | 5 40 | 15 16,3 | 15,8 | 15,6 | 15,7 | 16,5 | 13,9 | 1,004 | | | | | | |
| | | 9 50 | 16 41,3 | 14,5 | 14,2 | 14,3 | 15,0 | 12,7 | 1,003 | | | | | | |
| | | 7 60 | 18 6,3 | 14,0 | 13,8 | 13,9 | 14,1 | 12,0 | 1,003 | | | | | | |
| | | 8 70 | 19 31,2 | 13,0 | 12,7 | 12,8 | 13,4 | 11,4 | 1,002 | | | | | | |
| | | 9 80 | 20 56,0 | 11,5 | 11,3 | 11,4 | 12,1 | 10,3 | 1,002 | | | | | | |
| | | 10 90 | 22 20,9 | 10,3 | 10,0 | 10,1 | 10,8 | 9,2 | 1,002 | | | | | | |
| | | 11 100 | 23 45,3 | 9,2 | 8,8 | 9,0 | 9,5 | 8,1 | 1,001 | 10,035 | 14 9,3 | 846,3 | | | |
| | | 12 110 | 25 10,0 | 8,7 | 8,5 | 8,6 | 8,8 | 7,5 | 1,001 | 10,029 | 14 8,8 | 846,3 | | | |
| | | 13 120 | 26 35,0 | 8,0 | 7,9 | 7,9 | 8,2 | 7,1 | 1,001 | 10,024 | 14 8,8 | 846,8 | | | |
| | | 14 130 | 27 59,4 | 7,2 | 7,3 | 1,2 | 7,6 | 6,5 | 1,001 | 10,020 | 14 8,1 | 846,4 | | | |
| | | 15 140 | 29 24,0 | 6,6 | 6,6 | 6,6 | 6,9 | 5,9 | 1,001 | 10,017 | 14 7,7 | 846,3 | | | |
| | | 16 150 | 10 30 49,0 | 5,8 | 5,7 | 5,7 | 6,1 | 5,3 | 1,001 | 10,015 | 14 7",7 | 846,4 | | | |
| | | 17 160 | 32 13,6 | 5,4 | 5,2 | 5,3 | 5,5 | 4,7 | 1,001 | 10,013 | 14 7,3 | 846,2 | | | |
| | | 18 170 | 33 38,0 | 5,0 | 4,9 | 4,9 | 5,1 | 4,4 | 1,000 | 10,011 | 14 6,8 | 845,9 | | | |
| | | 19 180 | 35 3,0 | 4,6 | 4,2 | 4,4 | 4,6 | 3,9 | 1,000 | 10,009 | 14 7,0 | 846,2 | | | |
| | | 20 190 | 36 37,0 | 4,2 | 3,9 | 4,0 | 4,2 | 3,6 | 1,000 | 10,007 | 14 6,1 | 845,5 | | | |
| | | 21 200 | 37 52,3 | 3,8 | 3,7 | 3,7 | 3,8 | 3,2 | 1,000 | 10,006 | 14 7,0 | 846,5 | | | |
| | | 22 210 | 39 17,3 | 3,4 | 3,2 | 3,3 | 3,5 | 3,0 | 1,000 | 10,005 | 14 7,3 | 846,9 | | | |
| | | 23 220 | 40 42,0 | 3,0 | 2,8 | 2,9 | 3,1 | 2,7 | 1,000 | 10,004 | 14 7,0 | 846,7 | | | |
| | | 24 230 | 42 6,5 | 2,6 | 2,4 | 2,5 | 2,7 | 2,3 | 1,000 | 10,003 | 14 7,1 | 846,8 | | | |
| | | 25 240 | 43 31,0 | 2,4 | 2,2 | 2,3 | 2,4 | 2,0 | 1,000 | 10,002 | 14 7,0 | 846,8 | | | |
| | | 26 250 | 44 56,0 | 2,2 | 2,0 | 2,1 | 2,2 | 1,9 | 1,000 | 10,001 | 14 7,0 | 846,9 | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | NOMBRE D'ORDRE. | NOMBRE d'oscillations. | HEURE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 8. | | | | | | | | REMARQUES. | | | |
|---------------------|---|-----------------|------------------------|---------------------------|--|--------------------|--------------------|--------------------|------------|-----------------|---------|---------|-------------------|----------------------------|----------------------|--|
| | | | | | AMPLITUDES. | | | En parties | | Moyenne-moyenne | | CORREC- | SOMME des correc- | DURÉE de cent oscillations | | |
| | | | | | à gauche. | à droite. | Moyenne. | en parties. | en degrés. | réelles. | infima. | | | petites. (Moyenne) | | |
| Frey. Lm. Fb. | 1819. Décem. 22, à 11 ^h 31' matin. | 1 | 0 | 11 ^h 19' 30",5 | 25 ^p ,5 | 25 ^p ,5 | 25 ^p ,5 | | | | | | | | Température = 20°,6. | |
| | | 2 | 10 | 21 5,0 | 23,7 | 23,7 | 23,7 | 24 ^p ,6 | 20°,3 | 1,008 | | | | | | |
| | | 3 | 20 | 22 30,0 | 21,0 | 21,0 | 21,0 | 22,3 | 18,5 | 1,006 | | | | | | |
| | | 4 | 30 | 23 55,4 | 19,0 | 18,5 | 18,7 | 19,9 | 16,6 | 1,006 | | | | | | |
| | | 5 | 40 | 25 20,5 | 17,0 | 16,3 | 16,6 | 17,7 | 15,0 | 1,004 | | | | | | |
| | | 6 | 50 | 26 45,3 | 15,0 | 14,7 | 14,8 | 15,7 | 13,3 | 1,003 | | | | | | |
| | | 7 | 60 | 28 10,3 | 13,0 | 12,8 | 12,9 | 13,8 | 11,7 | 1,003 | | | | | | |
| | | 8 | 70 | 29 35,3 | 12,0 | 11,9 | 11,9 | 12,4 | 10,5 | 1,002 | | | | | | |
| | | 9 | 80 | 31 0,3 | 11,0 | 11,0 | 11,0 | 11,4 | 9,7 | 1,002 | | | | | | |
| | | 10 | 90 | 32 25,0 | 10,2 | 10,0 | 10,1 | 0,5 | 9,0 | 1,002 | | | | | | |
| | | 11 | 100 | 33 50,0 | 9,0 | 9,0 | 9,0 | 9,5 | 8,1 | 1,001 | 10,037 | 14'10"5 | 847,4 | | | |
| | | 12 | 110 | 35 15,0 | 8,6 | 8,4 | 8,5 | 8,7 | 7,5 | 1,001 | 10,030 | 14 10,0 | 847,5 | | | |
| | | 13 | 120 | 36 39,6 | 7,9 | 7,8 | 7,8 | 8,2 | 7,1 | 1,001 | 10,025 | 14 9,6 | 847,5 | | | |
| | | 14 | 130 | 38 4,3 | 7,2 | 7,0 | 7,1 | 7,4 | 6,3 | 1,001 | 10,020 | 14 8,9 | 847,2 | | | |
| | | 15 | 140 | 39 29,2 | 6,4 | 6,2 | 6,3 | 6,7 | 5,8 | 1,001 | 10,017 | 14 8,7 | 847,3 | | | |
| | | 16 | 150 | 40 54,0 | 5,8 | 5,6 | 5,7 | 6,0 | 5,2 | 1,001 | 10,015 | 14 8,7 | 847,4 | | | |
| | | 17 | 160 | 42 18,6 | 5,2 | 5,0 | 5,1 | 5,4 | 4,6 | 1,001 | 10,013 | 14 8,3 | 847,2 | | | |
| | | 18 | 170 | 43 43,4 | 4,8 | 4,6 | 4,7 | 4,9 | 4,1 | 1,000 | 10,011 | 14 8,1 | 847,2 | | | |
| | | 19 | 180 | 45 8,3 | 4,4 | 4,0 | 4,2 | 4,4 | 3,7 | 1,000 | 10,009 | 14 8,0 | 847,2 | | | |
| | | 20 | 190 | 46 33,1 | 7,7 | 3,5 | 3,6 | 3,9 | 3,3 | 1,000 | 10,007 | 14 8,1 | 847,5 | | | |
| | | 21 | 200 | 47 58,0 | 3,2 | 3,1 | 3,1 | 3,3 | 2,8 | 1,000 | 10,006 | 14 8,0 | 847,3 | | | |
| | | 22 | 210 | 49 23,0 | 2,8 | 2,7 | 2,7 | 2,9 | 2,4 | 1,000 | 10,005 | 14 8,0 | 847,6 | | | |
| | | 23 | 220 | 50 47,4 | 2,5 | 2,5 | 2,5 | 2,6 | 2,2 | 1,000 | 10,004 | 14 7,8 | 847,5 | | | |
| | | 24 | 230 | 52 12,0 | 2,2 | 2,2 | 2,2 | 2,3 | 1,9 | 1,000 | 10,003 | 14 7,7 | 847,4 | | | |
| | | | | | | | | | | | | | 847,4 | | | |

§ XII. — *A la Baie-Française, île Conti (archipel des Malouines).*

| OBSERVATION. | DATES et HEURES. | NOMS d'ORDRE. OSCILLATIONS. | SUITE du chronomètre. | INTENSITÉ MAGNÉTIQUE. — AIGUILLES N° 7 ET 8. | | | | | | | | REMARQUES. | | | | |
|--------------------|---|-----------------------------------|-----------------------------|--|--------------------|--------------------|--------------------|--------------------|--------------|-------------------------|-------------------------------|------------|---|--|--|--|
| | | | | AMPLITUDES. | | | | CORREC- | | SOMME des correc- | DURÉE de cent oscillations | | | | | |
| | | | | En parties | | Moyenne-moyenne | | tions dépen- | | | | | | | | |
| | | | | à gauche. | à droite. | Moyenn. | en parties. | en degrés. | de l'amplit. | | | | | | | |
| Frey. Dp. B. | 1820. Avril à 1 ^h 38' soir. | 1 0 | 1 ^h 44' 0",5 | 19 ^p ,8 | 24 ^p ,0 | 21 ^p ,9 | | | | | | | Température = 13 ⁴ ,2. Aiguille n° 7. | | | |
| | | 2 10 | 41 24,0 | 18,0 | 22,0 | 20,0 | 20 ^p ,9 | 17 ^p ,4 | 1,006 | | | | | | | |
| | | 3 20 | 42 48,0 | 16,0 | 20,0 | 18,0 | 19,0 | 15,9 | 1,005 | | | | | | | |
| | | 4 30 | 44 11,8 | 14,5 | 18,5 | 16,5 | 17,2 | 14,6 | 1,004 | | | | | | | |
| | | 5 40 | 45 35,0 | 13,0 | 17,0 | 15,0 | 15,7 | 13,3 | 1,003 | | | | | | | |
| | | 6 50 | 46 58,4 | 12,0 | 15,5 | 13,7 | 14,4 | 12,2 | 1,003 | | | | | | | |
| | | 7 60 | 48 21,9 | 10,5 | 14,5 | 12,5 | 13,1 | 11,2 | 1,002 | | | | | | | |
| | | 8 70 | 49 45,5 | 9,0 | 13,0 | 11,0 | 11,7 | 10,0 | 1,002 | | | | | | | |
| | | 9 80 | 51 8,5 | 8,5 | 12,2 | 10,3 | 10,7 | 9,2 | 1,002 | | | | | | | |
| | | 10 90 | 52 32,0 | 7,2 | 11,2 | 9,2 | 9,7 | 8,3 | 1,001 | | | | | | | |
| | | 11 100 | 53 55,3 | 6,5 | 10,5 | 8,5 | 8,8 | 7,5 | 1,001 | 10,029 | 13' 54"8 | 832",4 | | | | |
| | | 12 110 | 55 18,9 | 5,5 | 9,6 | 7,5 | 8,0 | 6,9 | 1,001 | 10,024 | 13 54,9 | 832,9 | | | | |
| | | 13 120 | 56 42,0 | 4,6 | 8,8 | 6,7 | 7,1 | 6,1 | 1,001 | 10,020 | 13 54,0 | 832,3 | | | | |
| | | 14 130 | 58 5,0 | 4,3 | 8,3 | 6,3 | 6,5 | 5,6 | 1,001 | 10,017 | 13 53,2 | 831,8 | | | | |
| | | 15 140 | 59 28,4 | 4,0 | 8,0 | 6,0 | 6,1 | 5,3 | 1,001 | 10,015 | 13 53,4 | 832,2 | | | | |
| | | 17 150 | 60 51,7 | 3,5 | 7,5 | 5,5 | 5,7 | 4,9 | 1,001 | 10,013 | 13 53,3 | 832,2 | | | | |
| | | 17 160 | 62 15,0 | 3,0 | 6,9 | 4,9 | 5,2 | 4,5 | 1,000 | 10,011 | 13 53,1 | 832,2 | | | | |
| | | 18 170 | 63 38,2 | 2,5 | 6,4 | 4,4 | 4,7 | 4,0 | 1,000 | 10,009 | 13 52,7 | 832,0 | | | | |
| | | 19 180 | 65 1,6 | 2,2 | 0,0 | 4,1 | 4,2 | 3,6 | 1,000 | 10,007 | 13 54,1 | 832,5 | | | | |
| | | 20 190 | 66 25,0 | 1,8 | 5,5 | 3,6 | 3,8 | 3,2 | 1,000 | 10,006 | 13 54,0 | 832,5 | | | | |
| | | 21 200 | 67 48,0 | 1,2 | 5,2 | 3,1 | 3,3 | 2,8 | 1,000 | 10,005 | 13 54,7 | 832,3 | | | | |
| | | 22 210 | 69 11,0 | 1,0 | 4,9 | 2,9 | 3,0 | 2,6 | 1,000 | 10,004 | 13 53,1 | 832,0 | | | | |
| | | 23 220 | 70 34,0 | 0,8 | 4,7 | 2,7 | 2,8 | 2,3 | 1,000 | 10,003 | 13 53,0 | 831,8 | | | | |
| | | 24 230 | 71 57,3 | 0,5 | 4,3 | 2,4 | 2,5 | 2,1 | 1,000 | 10,002 | 13 53,3 | 832,1 | | | | |
| | | 25 240 | 73 20,0 | 0,2 | 4,0 | 2,1 | 2,2 | 1,9 | 1,000 | 10,001 | 13 52,6 | 831,5 | | | | |
| | | | | | | | | | | | | 832,2 | | | | |
| Frey. Dp. B. | Avril à 2 ^h 32' soir. | 1 0 | 2 33 54,2 | 22,0 | 25,0 | 23,5 | | | | | | | Température = 12 ⁴ ,8. Aiguille n° 8. | | | |
| | | 2 10 | 35 18,3 | 20,0 | 22,5 | 21,2 | 22,4 | 18,6 | 1,007 | | | | | | | |
| | | 3 20 | 36 42,0 | 18,0 | 20,5 | 19,2 | 20,2 | 16,9 | 1,006 | | | | | | | |
| | | 4 30 | 38 55,6 | 16,0 | 19,3 | 17,1 | 18,2 | 15,3 | 1,004 | | | | | | | |
| | | 5 40 | 39 28,9 | 14,5 | 17,0 | 15,7 | 16,4 | 13,8 | 1,003 | | | | | | | |
| | | 6 50 | 40 52,7 | 13,0 | 15,5 | 14,2 | 14,9 | 12,6 | 1,003 | | | | | | | |
| | | 7 60 | 42 16,3 | 12,0 | 14,0 | 13,0 | 13,6 | 11,6 | 1,003 | | | | | | | |
| | | 8 70 | 43 39,3 | 11,0 | 13,5 | 12,2 | 12,6 | 10,7 | 1,002 | | | | | | | |
| | | 9 80 | 45 3,0 | 9,5 | 12,2 | 10,8 | 11,5 | 9,8 | 1,002 | | | | | | | |
| | | 10 90 | 46 26,3 | 9,0 | 11,3 | 10,1 | 10,5 | 9,0 | 1,002 | | | | | | | |
| | | 11 100 | 47 49,9 | 7,8 | 10,5 | 9,1 | 9,6 | 8,2 | 1,001 | 10,033 | 13 55,7 | 833,0 | | | | |
| | | 12 110 | 49 13,1 | 7,0 | 9,7 | 8,3 | 8,7 | 7,5 | 1,001 | 10,027 | 13 54,8 | 832,6 | | | | |
| | | 13 120 | 50 36,4 | 6,2 | 8,8 | 7,5 | 7,9 | 6,7 | 1,001 | 10,022 | 13 54,4 | 832,6 | | | | |
| | | 14 130 | 51 59,9 | 5,5 | 8,2 | 6,8 | 7,2 | 6,2 | 1,001 | 10,019 | 13 54,3 | 832,7 | | | | |
| | | 15 140 | 53 23,0 | 5,0 | 7,6 | 6,3 | 6,5 | 5,6 | 1,001 | 10,017 | 13 54,1 | 832,7 | | | | |
| | | 16 150 | 54 46,2 | 4,5 | 6,9 | 5,7 | 6,0 | 5,2 | 1,001 | 10,015 | 13 53,5 | 832,3 | | | | |
| | | 17 160 | 56 9,4 | 4,0 | 6,4 | 5,2 | 5,4 | 4,6 | 1,001 | 10,013 | 13 53,1 | 832,0 | | | | |
| | | 18 170 | 57 32,6 | 3,5 | 6,0 | 4,7 | 4,9 | 4,1 | 1,000 | 10,011 | 13 53,3 | 832,4 | | | | |
| | | 19 180 | 58 55,9 | 3,0 | 5,5 | 4,2 | 4,5 | 3,8 | 1,000 | 10,009 | 13 52,9 | 832,2 | | | | |
| | | 20 190 | 60 19,1 | 2,5 | 5,0 | 3,7 | 3,9 | 3,3 | 1,000 | 10,007 | 13 52,8 | 832,2 | | | | |
| | | 21 200 | 61 42,0 | 2,2 | 4,6 | 3,4 | 3,5 | 3,0 | 1,000 | 10,006 | 13 52,1 | 831,6 | | | | |
| | | 22 210 | 63 5,3 | 1,9 | 4,2 | 3,0 | 3,2 | 2,8 | 1,000 | 10,005 | 13 52,2 | 831,8 | | | | |
| | | 23 220 | 64 28,4 | 1,6 | 4,0 | 2,8 | 2,9 | 2,4 | 1,000 | 10,004 | 13 52,0 | 831,7 | | | | |
| | | 24 230 | 65 51,6 | 1,3 | 3,8 | 2,5 | 2,7 | 2,3 | 1,000 | 10,003 | 13 51,7 | 831,5 | | | | |
| | | 25 240 | 67 15,0 | 1,0 | 3,3 | 2,2 | 2,3 | 1,9 | 1,000 | 10,002 | 13 52,0 | 831,8 | | | | |
| | | | | | | | | | | | | 832,2 | | | | |

VOYAGE AUTOEUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | | | REMARQUES. | | |
|--------------------|--|--|--------------------------|--------------------------------|-------------|-------|-----------------|-------|---|--|-------------------------------|---------------|----------|------------------------------------|
| | | NUMÉROS D'ORDRE. | OSCILLATIONS. | REGISTRE du chronomètre. | AMPLITUDES. | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | |
| | | | | | En parties | | Moyenne-moyenne | | | | en parties. | en degrés. | réelles. | infinim. petites. (Moyennes) |
| Frey. Dp. B. | 1820. Avril 11, à 3 ^h 35' soir. | 1 0 | 3 ^h 37' 16",8 | 25°,0 | 26°,0 | 25°,5 | | | | | | | | Température = 12 ⁴ ,5. |
| | | 2 10 | 37 56,1 | 24,0 | 24,5 | 24,2 | 24°,8 | 32°,4 | 1,020 | | | | | |
| | | 3 20 | 38 35,5 | 22,0 | 22,0 | 22,0 | 23,1 | 30,4 | 1,018 | | | | | |
| | | 4 30 | 39 15,0 | 20,0 | 20,5 | 20,2 | 21,1 | 28,2 | 1,015 | | | | | |
| | | 5 40 | 39 54,2 | 18,0 | 18,5 | 18,2 | 19,2 | 26,1 | 1,013 | | | | | |
| | | 6 50 | 40 33,4 | 16,5 | 17,0 | 16,7 | 17,5 | 24,0 | 1,011 | | | | | |
| | | 7 60 | 41 12,6 | 15,0 | 16,0 | 15,5 | 16,1 | 22,2 | 1,009 | | | | | |
| | | 8 70 | 41 51,8 | 14,0 | 15,5 | 14,7 | 15,1 | 20,9 | 1,009 | | | | | |
| | | 9 80 | 42 31,0 | 13,0 | 14,0 | 13,5 | 14,1 | 19,7 | 1,008 | | | | | |
| | | 10 90 | 43 10,1 | 12,0 | 13,0 | 12,9 | 13,0 | 18,3 | 1,006 | | | | | |
| | | 11 100 | 43 49,2 | 11,0 | 12,0 | 11,5 | 12,0 | 16,9 | 1,006 | 10,115 | 6'32",4 | 387",9 | | |
| | | 12 110 | 44 28,3 | 10,0 | 11,0 | 10,5 | 11,0 | 15,6 | 1,005 | 10,100 | 6 32,2 | 388,3 | | |
| | | 13 120 | 45 7,5 | 9,5 | 10,5 | 10,0 | 10,2 | 14,5 | 1,004 | 10,086 | 6 32,0 | 388,7 | | |
| | | 14 130 | 45 44,7 | 9,0 | 10,0 | 9,5 | 9,7 | 13,8 | 1,004 | 10,075 | 6 31,7 | 388,8 | | |
| | | 15 140 | 46 22,9 | 8,5 | 9,5 | 9,0 | 9,2 | 13,2 | 1,003 | 10,065 | 6 31,7 | 389,2 | | |
| | | 16 150 | 47 4,8 | 8,0 | 8,5 | 8,2 | 8,6 | 12,3 | 1,003 | 10,057 | 6 31,4 | 389,2 | | |
| | | 17 160 | 47 44,0 | 7,5 | 8,0 | 7,7 | 8,0 | 11,5 | 1,002 | 10,050 | 6 31,4 | 389,4 | | |
| | | 18 170 | 48 23,0 | 6,5 | 7,3 | 6,9 | 7,3 | 10,5 | 1,002 | 10,043 | 6 31,2 | 389,5 | | |
| | | 19 180 | 49 2,2 | 6,2 | 7,0 | 6,6 | 6,7 | 9,6 | 1,002 | 10,037 | 6 31,2 | 389,8 | | |
| | | 20 190 | 49 41,2 | 5,8 | 6,5 | 6,1 | 6,3 | 9,1 | 1,002 | 10,033 | 6 31,1 | 389,8 | | |
| | | 21 200 | 50 20,2 | 5,5 | 6,2 | 5,8 | 5,9 | 8,4 | 1,001 | 10,028 | 6 31,0 | 389,9 | | |
| | | 22 210 | 50 59,3 | 5,0 | 5,6 | 5,3 | 5,5 | 7,9 | 1,001 | 10,024 | 6 31,0 | 390,1 | | |
| | | 23 220 | 51 38,4 | 4,7 | 5,2 | 4,9 | 5,1 | 7,3 | 1,001 | 10,021 | 6 30,9 | 390,1 | | |
| | | 24 230 | 52 17,6 | 4,4 | 5,0 | 4,7 | 4,8 | 6,8 | 1,001 | 10,018 | 6 30,9 | 390,2 | | |
| | | 25 240 | 52 56,8 | 4,1 | 4,7 | 4,4 | 4,5 | 6,5 | 1,001 | 10,016 | 6 30,9 | 390,3 | | |
| | | 26 250 | 53 35,8 | 3,7 | 4,3 | 4,0 | 4,2 | 6,1 | 1,001 | 10,014 | 6 31,0 | 390,5 | | |
| | | 27 260 | 54 14,8 | 3,5 | 4,0 | 3,7 | 3,8 | 5,4 | 1,001 | 10,013 | 6 30,8 | 390,3 | | |
| | | 28 270 | 54 53,8 | 3,2 | 3,7 | 3,4 | 3,5 | 5,1 | 1,001 | 10,012 | 6 30,9 | 390,4 | | |
| | | 29 280 | 55 32,9 | 3,0 | 3,5 | 3,2 | 3,3 | 4,8 | 1,001 | 10,011 | 6 30,7 | 390,3 | | |
| | | 30 290 | 56 12,0 | 2,7 | 3,1 | 2,9 | 3,0 | 4,4 | 1,000 | 10,009 | 6 30,8 | 390,4 | | |
| | | 31 300 | 56 51,0 | 2,3 | 2,8 | 2,5 | 2,7 | 3,8 | 1,000 | 10,008 | 6 30,8 | 390,5 | | |
| | | 32 310 | 57 30,0 | 2,2 | 2,6 | 2,4 | 2,4 | 3,4 | 1,000 | 10,007 | 6 30,7 | 390,4 | | |
| | | 33 320 | 58 9,0 | 1,9 | 2,3 | 2,1 | 2,2 | 3,2 | 1,000 | 10,006 | 6 30,6 | 390,4 | | |
| | | 34 330 | 58 48,0 | 1,8 | 2,2 | 2,0 | 2,0 | 2,9 | 1,000 | 10,005 | 6 30,4 | 390,2 | | |
| | | | | | | | | | | | | 389,8 | | |

§ XIII. — A Rio de Janeiro, Brésil (2^e relâche).

| OBSERVATEUR. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 9. | | | | | | | | | | | | REMARQUES. | |
|--------------------|--|--|-----------------------------|--------------------|--------------------|--------------------|--------------------|-------|-------|--|--|-------------------------------|---------------|------------|-----------------------------------|
| | | NOMBRE D'OSCIL. OSCILLATIONS. | HEURE DU CHRONOMÈTRE. | AMPLITUDES. | | | | | | CORREC- TIONS DÉPEN- DANTES DE L'AMPLI. | SOMME DES CORREC- TIONS POUR CENT OSCILLAT. | Durée DE CENT OSCILLATIONS | | | |
| | | | | En parties | | | Moyenne-moyenne | | | | | en parties. | en degrés. | RÉELLES. | INFINIM. PETITES. (Moyenne) |
| Frey. Dp. T. | 1820. Août 22, à 1 ^h 0' soir. | 1 0 | 11 ^h 55' 47",5 | 22 ^p ,2 | 21 ^p ,0 | 21 ^p ,6 | | | | | | | | | Température = 21 ⁴ ,8. |
| | | 2 10 | 56 25,5 | 21,0 | 19,5 | 20,2 | 20 ^p ,9 | 28°,1 | 1,015 | | | | | | |
| | | 3 20 | 57 3,2 | 17,5 | 16,0 | 16,7 | 18,4 | 25,1 | 1,012 | | | | | | |
| | | 4 30 | 57 40,7 | 16,5 | 15,0 | 15,7 | 16,2 | 22,3 | 1,009 | | | | | | |
| | | 5 40 | 58 18,6 | 15,5 | 13,3 | 14,4 | 15,0 | 20,8 | 1,009 | | | | | | |
| | | 6 50 | 58 56,0 | 13,5 | 12,2 | 12,8 | 13,6 | 19,1 | 1,007 | | | | | | |
| | | 7 60 | 59 33,6 | 13,0 | 10,5 | 11,7 | 12,2 | 17,1 | 1,006 | | | | | | |
| | | 8 70 | 12 0 11,0 | 11,3 | 9,5 | 10,4 | 11,0 | 15,6 | 1,005 | | | | | | |
| | | 9 80 | 0 48,2 | 9,5 | 8,5 | 9,0 | 9,7 | 13,8 | 1,004 | | | | | | |
| | | 10 90 | 1 26,1 | 8,7 | 7,7 | 8,2 | 8,6 | 12,3 | 1,003 | | | | | | |
| | | 11 100 | 2 3,7 | 8,0 | 6,7 | 7,3 | 7,7 | 11,0 | 1,002 | 10,072 | 6'16",2 | 373",5 | | | |
| | | 12 110 | 2 41,1 | 7,0 | 5,5 | 6,2 | 6,7 | 9,6 | 1,002 | 10,059 | 6 15,6 | 373,4 | | | |
| | | 13 120 | 3 18,7 | 5,5 | 5,0 | 5,7 | 5,9 | 8,4 | 1,001 | 10,048 | 6 15,5 | 373,7 | | | |
| | | 14 130 | 3 56,0 | 6,0 | 4,7 | 5,3 | 5,5 | 7,9 | 1,001 | 10,040 | 6 15,3 | 373,8 | | | |
| | | 15 140 | 4 33,6 | 5,5 | 4,0 | 4,7 | 5,0 | 7,2 | 1,001 | 10,032 | 6 15,0 | 373,8 | | | |
| | | 16 150 | 5 11,0 | 5,0 | 3,2 | 4,1 | 4,4 | 6,3 | 1,001 | 10,026 | 6 15,0 | 374,0 | | | |
| | | 17 160 | 5 48,6 | 4,5 | 2,5 | 3,5 | 3,8 | 5,4 | 1,001 | 10,021 | 6 15,0 | 374,2 | | | |
| | | 18 170 | 6 26,2 | 4,0 | 1,7 | 2,8 | 3,2 | 4,7 | 1,001 | 10,017 | 6 15,0 | 374,4 | | | |
| | | 19 180 | 7 3,6 | 3,5 | 1,5 | 2,5 | 2,6 | 3,7 | 1,000 | 10,013 | 6 14,8 | 374,3 | | | |
| | | 20 190 | 7 41,1 | 3,0 | 1,2 | 2,1 | 2,3 | 3,3 | 1,000 | 10,010 | 6 15,0 | 374,6 | | | |
| | | 21 200 | 8 18,6 | 2,8 | 1,0 | 1,9 | 2,0 | 2,9 | 1,000 | 10,008 | 6 14,9 | 374,6 | | | |
| | | 22 210 | 8 56,0 | 2,7 | 0,7 | 1,7 | 1,8 | 2,4 | 1,000 | 10,006 | 6 14,9 | 374,7 | | | |
| | | | | | | | | | | | | | | 374,1 | |
| Frey. T. | Septem. 4, à 7 ^h 30' matin. | 1 0 | 7 34 54,3 | 21,0 | 21,5 | 21,2 | | | | | | | | | Température = 17 ⁴ ,8. |
| | | 2 10 | 35 32,0 | 18,5 | 19,0 | 18,7 | 19,9 | 27,0 | 1,014 | | | | | | |
| | | 3 20 | 36 10,0 | 17,0 | 17,5 | 17,2 | 17,9 | 24,5 | 1,011 | | | | | | |
| | | 4 30 | 36 47,7 | 16,0 | 16,5 | 16,2 | 16,7 | 23,0 | 1,010 | | | | | | |
| | | 5 40 | 37 25,4 | 14,2 | 14,7 | 14,4 | 15,3 | 21,2 | 1,009 | | | | | | |
| | | 6 50 | 38 3,4 | 13,2 | 13,7 | 13,4 | 13,9 | 19,5 | 1,008 | | | | | | |
| | | 7 60 | 38 41,2 | 12,0 | 12,5 | 12,2 | 12,8 | 17,9 | 1,006 | | | | | | |
| | | 8 70 | 39 18,7 | 11,3 | 11,8 | 11,5 | 11,8 | 16,6 | 1,006 | | | | | | |
| | | 9 80 | 39 56,8 | 10,3 | 10,8 | 10,5 | 11,0 | 15,6 | 1,005 | | | | | | |
| | | 10 90 | 40 34,4 | 9,3 | 9,8 | 9,5 | 10,0 | 14,2 | 1,004 | | | | | | |
| | | 11 100 | 41 12,0 | 8,5 | 9,0 | 8,7 | 9,1 | 13,0 | 1,003 | 10,076 | 6 17,7 | 374,9 | | | |
| | | 12 110 | 41 50,0 | 7,5 | 8,0 | 7,7 | 8,2 | 11,8 | 1,003 | 10,065 | 6 18,0 | 375,6 | | | |
| | | 13 120 | 42 27,4 | 7,0 | 7,5 | 7,2 | 7,4 | 10,6 | 1,002 | 10,056 | 6 17,4 | 375,3 | | | |
| | | 14 130 | 43 5,4 | 6,5 | 7,0 | 6,4 | 6,9 | 9,9 | 1,002 | 10,048 | 6 17,7 | 375,9 | | | |
| | | 15 140 | 43 43,0 | 5,7 | 6,2 | 5,9 | 6,3 | 9,1 | 1,002 | 10,041 | 6 17,6 | 376,1 | | | |
| | | 16 150 | 44 20,5 | 5,4 | 5,9 | 5,6 | 5,7 | 8,1 | 1,001 | 10,034 | 6 17,1 | 375,8 | | | |
| | | 17 160 | 44 58,4 | 4,8 | 5,4 | 5,1 | 5,3 | 7,6 | 1,001 | 10,029 | 6 17,2 | 376,1 | | | |
| | | 18 170 | 45 36,2 | 4,7 | 5,2 | 5,0 | 5,0 | 7,2 | 1,001 | 10,024 | 6 17,5 | 376,6 | | | |
| | | 19 180 | 46 14,0 | 4,3 | 4,8 | 4,5 | 4,7 | 6,7 | 1,001 | 10,020 | 6 17,2 | 376,4 | | | |
| | | 20 190 | 46 51,9 | 3,7 | 4,2 | 3,9 | 4,2 | 6,1 | 1,001 | 10,017 | 6 17,5 | 376,9 | | | |
| | | 21 200 | 47 29,2 | 3,5 | 4,0 | 3,7 | 3,8 | 5,4 | 1,001 | 10,015 | 6 17,2 | 376,6 | | | |
| | | 22 210 | 48 7,0 | 3,2 | 3,7 | 3,5 | 3,6 | 5,2 | 1,001 | 10,013 | 6 17,0 | 376,5 | | | |
| | | 23 220 | 48 44,9 | 2,7 | 3,2 | 2,9 | 3,2 | 4,7 | 1,001 | 10,012 | 6 17,5 | 377,0 | | | |
| | | 24 230 | 49 22,4 | 2,4 | 2,9 | 2,7 | 2,8 | 3,9 | 1,000 | 10,010 | 6 17,0 | 376,6 | | | |
| | | 25 240 | 50 0,0 | 2,3 | 2,8 | 2,5 | 2,6 | 3,7 | 1,000 | 10,008 | 6 17,0 | 376,7 | | | |
| | | 26 250 | 50 38,0 | 2,2 | 2,7 | 2,4 | 2,4 | 3,4 | 1,000 | 10,007 | 6 17,5 | 377,2 | | | |
| | | 27 260 | 51 15,4 | 2,0 | 2,5 | 2,2 | 2,3 | 3,3 | 1,000 | 10,006 | 6 17,0 | 376,8 | | | |
| | | 28 270 | 51 53,3 | 1,8 | 2,4 | 2,1 | 2,1 | 3,0 | 1,000 | 10,005 | 6 17,1 | 376,9 | | | |
| | | 29 280 | 52 31,0 | 1,7 | 2,3 | 2,0 | 2,0 | 2,9 | 1,000 | 10,004 | 6 17,0 | 376,8 | | | |
| | | 30 290 | 53 8,7 | 1,6 | 2,2 | 1,9 | 1,9 | 2,6 | 1,000 | 10,003 | 6 16,8 | 376,7 | | | |
| | | 31 300 | 53 46,4 | 1,5 | 2,2 | 1,8 | 1,8 | 2,4 | 1,000 | 10,002 | 6 17,2 | 377,1 | | | |
| | | 32 310 | 54 24,2 | 1,3 | 2,1 | 1,7 | 1,7 | 2,3 | 1,000 | 10,001 | 6 17,2 | 377,2 | | | |
| | | 33 320 | 55 1,8 | 1,2 | 1,9 | 1,5 | 1,7 | 2,3 | 1,000 | 10,000 | 6 16,9 | 376,9 | | | |
| | | | | | | | | | | | | | | 376,5 | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATION. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 8. | | | | | | | | | | | | REMARQUES. | | |
|--------------------|---|--|---------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|---|--|-------------------------------|---------------|----------|-------------------------------------|
| | | NOMBRAGE D'ORDRE. | OSCILLATIONS. | HEURE du chronomètre. | AMPLITUDES. | | | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | |
| | | | | | En parties | | | Moyenne-moyenne | | | | | en parties. | en degrés. | RÉELLES. | infinitim. petites. (Moyenne) |
| Frey. Dp. T. | 1820. Août 22, à 1 ^h 38' soir. | 1 | 10 | 0 ^h 37' 38",1 | 24 ^o ,2 | 25 ^o ,0 | 24 ^o ,6 | | | | | | | | | Température = 21 ^o .5. |
| | | 2 | 10 | 38 58,0 | 20,5 | 21,2 | 20,8 | 22 ^o ,7 | 18 ^o ,9 | 1,007 | | | | | | |
| | | 3 | 20 | 40 17,2 | 18,5 | 19,2 | 18,8 | 19,8 | 16,7 | 1,006 | | | | | | |
| | | 4 | 30 | 41 37,0 | 15,7 | 16,5 | 16,1 | 17,5 | 14,8 | 1,004 | | | | | | |
| | | 5 | 40 | 42 56,3 | 13,8 | 14,5 | 14,2 | 15,1 | 12,8 | 1,003 | | | | | | |
| | | 6 | 50 | 44 15,7 | 12,5 | 13,2 | 12,8 | 13,5 | 11,5 | 1,002 | | | | | | |
| | | 7 | 60 | 45 34,9 | 11,0 | 11,7 | 11,3 | 12,1 | 10,3 | 1,002 | | | | | | |
| | | 8 | 70 | 46 54,2 | 9,7 | 10,5 | 10,1 | 10,7 | 9,2 | 1,002 | | | | | | |
| | | 9 | 80 | 48 13,5 | 8,7 | 9,7 | 9,2 | 9,6 | 8,2 | 1,001 | | | | | | |
| | | 10 | 90 | 49 32,5 | 8,0 | 9,2 | 8,6 | 8,9 | 7,6 | 1,001 | | | | | | |
| | | 11 | 100 | 50 51,8 | 7,5 | 8,3 | 7,9 | 8,2 | 7,1 | 1,001 | 10,029 | 13'13"7 | 791",4 | | | |
| | | 12 | 110 | 52 11,0 | 6,3 | 7,5 | 6,9 | 7,4 | 6,3 | 1,001 | 10,023 | 13 13,0 | 791",2 | | | |
| | | 13 | 120 | 53 29,9 | 5,7 | 6,7 | 6,2 | 6,5 | 5,6 | 1,001 | 10,018 | 13 12,7 | 791",3 | | | |
| | | 14 | 130 | 54 49,3 | 4,8 | 6,2 | 5,5 | 5,8 | 5,0 | 1,001 | 10,015 | 13 12,3 | 791",1 | | | |
| | | 15 | 140 | 56 8,4 | 4,5 | 5,3 | 4,9 | 5,2 | 4,5 | 1,000 | 10,012 | 13 12,1 | 791",2 | | | |
| | | 16 | 150 | 57 27,7 | 4,0 | 4,7 | 4,3 | 4,6 | 3,9 | 1,000 | 10,010 | 13 12,0 | 791",2 | | | |
| | | 17 | 160 | 58 46,7 | 3,5 | 4,3 | 3,9 | 4,1 | 3,5 | 1,000 | 10,008 | 13 11,8 | 791",2 | | | |
| | | 18 | 170 | 1 0 5,5 | 3,0 | 4,0 | 3,5 | 3,7 | 3,2 | 1,000 | 10,006 | 13 11,3 | 791",8 | | | |
| | | 19 | 180 | 1 25,0 | 2,7 | 3,7 | 3,2 | 3,3 | 2,8 | 1,000 | 10,005 | 13 11,5 | 791",1 | | | |
| | | 20 | 190 | 2 44,0 | 2,2 | 3,3 | 2,7 | 2,9 | 2,4 | 1,000 | 10,004 | 13 11,5 | 791",2 | | | |
| | | 21 | 200 | 4 3,2 | 2,0 | 3,0 | 2,5 | 2,6 | 2,2 | 1,000 | 10,003 | 13 11,4 | 791",2 | | | |
| | | 22 | 210 | 5 22,2 | 1,8 | 2,7 | 2,2 | 2,3 | 1,9 | 1,000 | 10,002 | 13 11,2 | 791",0 | | | |
| | | 23 | 220 | 6 41,1 | 1,5 | 2,5 | 2,0 | 2,1 | 1,8 | 1,000 | 10,001 | 13 11,2 | 791",1 | | | |
| Frey. Dp. T. | 22, à 2 ^h 26' soir. | 1 | 0 | 1 25 52,1 | 24,0 | 24,7 | 24,3 | | | | | | | | 791",2 | Température = 21 ^o .5. |
| | | 2 | 10 | 27 11,4 | 20,2 | 21,5 | 20,8 | 22,5 | 18,7 | 1,007 | | | | | | |
| | | 3 | 20 | 28 31,0 | 17,3 | 18,2 | 17,7 | 19,2 | 16,1 | 1,005 | | | | | | |
| | | 4 | 30 | 29 50,2 | 15,5 | 16,7 | 16,1 | 16,9 | 14,2 | 1,004 | | | | | | |
| | | 5 | 40 | 31 9,7 | 13,0 | 14,2 | 13,6 | 14,8 | 12,5 | 1,003 | | | | | | |
| | | 6 | 50 | 32 29,0 | 11,2 | 12,3 | 11,7 | 12,6 | 10,7 | 1,002 | | | | | | |
| | | 7 | 60 | 33 48,2 | 9,2 | 10,5 | 9,8 | 10,7 | 9,2 | 1,002 | | | | | | |
| | | 8 | 70 | 35 7,0 | 8,2 | 9,3 | 8,7 | 9,2 | 7,9 | 1,001 | | | | | | |
| | | 9 | 80 | 36 26,2 | 7,0 | 8,2 | 7,6 | 8,1 | 7,0 | 1,001 | | | | | | |
| | | 10 | 90 | 37 45,3 | 6,2 | 7,0 | 6,6 | 7,1 | 6,1 | 1,001 | | | | | | |
| | | 11 | 100 | 39 4,7 | 5,5 | 6,3 | 5,9 | 6,2 | 5,4 | 1,001 | 10,027 | 13 12,6 | 790",5 | | | |
| | | 12 | 110 | 40 23,3 | 4,7 | 5,8 | 5,2 | 5,5 | 4,7 | 1,001 | 10,021 | 13 11,9 | 790",2 | | | |
| | | 13 | 120 | 41 42,9 | 3,8 | 4,7 | 4,2 | 4,7 | 4,0 | 1,000 | 10,016 | 13 11,9 | 790",6 | | | |
| | | 14 | 130 | 43 2,0 | 3,2 | 4,3 | 3,7 | 4,0 | 3,4 | 1,000 | 10,012 | 13 11,8 | 790",8 | | | |
| | | 15 | 140 | 44 21,0 | 2,7 | 3,8 | 3,2 | 3,4 | 2,9 | 1,000 | 10,009 | 13 11,3 | 790",6 | | | |
| | | 16 | 150 | 45 40,2 | 2,5 | 3,6 | 3,0 | 3,1 | 2,7 | 1,000 | 10,007 | 13 11,2 | 790",6 | | | |
| | | 17 | 160 | 46 59,3 | 2,2 | 3,2 | 2,7 | 2,8 | 2,3 | 1,000 | 10,005 | 13 11,1 | 790",7 | | | |
| | | 18 | 170 | 48 18,2 | 1,8 | 2,7 | 2,2 | 2,4 | 2,0 | 1,000 | 10,004 | 13 11,2 | 790",9 | | | |
| | | | | | | | | | | | 790,6 | | | | | |

| OBSERVATION. | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE. — AIGUILLE N° 7. | | | | | | | | | | | | REMARQUES. |
|---|------------------------|--|--------------------|-----------------------------|--------------------|--------------------|--------------------|---|---------------|---|-------------------------------|-----------------------------------|-------|-----------------------------------|
| | | NOMBRE D'ORDRES | OSCILLATIONS. | HEURE DU CHRONOMÈTRE. | AMPLITUDES. | | | CORREC- TIONS DÉPEN- DANTES DE L'AMP. PLIT. | | SOMME DES CORREC- TIONS POUR CENT OSCILLAT. | DURÉE DE CENT OSCILLATIONS | | | |
| | | | | | EN PARTIES | | Moyenne-moyenne | en parties. | en degrés. | | RÉELLES. | INFINIM. PETITES. (Moyenne) | | |
| Frey. Dp. T. 1820. Aout 22, à 3 ^h 15' soir. | 1 0 | 2 ^h 12' 40",1 | 23 ^p ,2 | 24 ^p ,5 | 23 ^p ,8 | | | | | | | | | Température = 21 ⁴ ,5. |
| | 2 10 | 13 59,8 | 21,0 | 20,2 | 20,6 | 22 ^p ,2 | 18 ^p ,5 | 1,006 | | | | | | |
| | 3 20 | 15 19,2 | 17,8 | 18,7 | 18,3 | 19,4 | 16,2 | 1,005 | | | | | | |
| | 4 30 | 16 38,5 | 15,0 | 16,2 | 15,6 | 16,9 | 14,2 | 1,004 | | | | | | |
| | 5 40 | 17 57,9 | 13,2 | 14,5 | 13,8 | 14,7 | 12,5 | 1,003 | | | | | | |
| | 6 50 | 19 17,0 | 11,7 | 13,5 | 12,6 | 13,2 | 11,3 | 1,002 | | | | | | |
| | 7 60 | 20 36,2 | 10,2 | 11,5 | 10,8 | 11,7 | 10,0 | 1,002 | | | | | | |
| | 8 70 | 21 55,4 | 8,8 | 10,3 | 9,6 | 10,2 | 8,8 | 1,002 | | | | | | |
| | 9 80 | 23 14,5 | 7,8 | 9,3 | 8,6 | 9,1 | 7,8 | 1,001 | | | | | | |
| | 10 90 | 24 33,5 | 7,0 | 8,5 | 7,7 | 8,1 | 7,0 | 1,001 | | | | | | |
| | 11 100 | 25 52,7 | 6,3 | 7,5 | 6,9 | 7,3 | 6,2 | 1,001 | 10,027 | 13'12"6 | 790,5 | | | |
| | 12 110 | 27 11,9 | 5,5 | 7,0 | 6,2 | 6,6 | 5,7 | 1,001 | 10,022 | 13 12,1 | 790,4 | | | |
| | 13 120 | 28 31,0 | 5,2 | 6,5 | 5,8 | 6,0 | 5,2 | 1,001 | 10,018 | 13 11,8 | 790,4 | | | |
| | 14 130 | 29 50,0 | 4,5 | 5,7 | 5,1 | 5,4 | 4,6 | 1,001 | 10,015 | 13 11,5 | 790,3 | | | |
| | 15 140 | 31 9,3 | 3,8 | 5,4 | 4,6 | 4,8 | 4,0 | 1,000 | 10,012 | 13 11,4 | 790,4 | | | |
| | 16 150 | 32 28,3 | 3,5 | 4,8 | 4,1 | 4,3 | 3,6 | 1,000 | 10,010 | 13 11,3 | 790,5 | | | |
| | 17 160 | 33 47,3 | 3,2 | 4,6 | 3,9 | 4,0 | 3,4 | 1,000 | 10,008 | 13 11,1 | 790,5 | | | |
| | 18 170 | 35 6,4 | 2,7 | 4,0 | 3,3 | 3,6 | 3,1 | 1,000 | 10,006 | 13 11,0 | 790,5 | | | |
| | 19 180 | 36 25,7 | 2,3 | 3,8 | 3,1 | 3,2 | 2,8 | 1,000 | 10,005 | 13 11,2 | 790,8 | | | |
| | 20 190 | 37 44,6 | 2,2 | 3,5 | 2,7 | 2,9 | 2,4 | 1,000 | 10,004 | 13 11,1 | 790,8 | | | |
| | 21 200 | 39 3,8 | 2,0 | 3,3 | 2,6 | 2,8 | 2,3 | 1,000 | 10,003 | 13 11,1 | 790,9 | | | |
| | 22 210 | 40 22,7 | 1,8 | 3,2 | 2,5 | 2,6 | 2,2 | 1,000 | 10,002 | 13 10,8 | 790,6 | | | |
| | 23 220 | 41 41,3 | 1,5 | 2,8 | 2,1 | 2,3 | 1,9 | 1,000 | 10,001 | 13 10,3 | 790,2 | | | |
| | 24 230 | 43 0,5 | 1,2 | 2,5 | 1,8 | 2,0 | 1,7 | 1,000 | 10,000 | 13 10,5 | 790,5 | | | |
| | | | | | | | | | | | | | 790,5 | |

VOYAGE AUTOUR DU MONDE.

S XIV. — A Paris (*au retour*).

| OBSERVATEUR | DATES et HEURES. | INTENSITÉ MAGNÉTIQUE.—AIGUILLES N° 7 ET 8. | | | | | | | | | | | REMARQUES. |
|-----------------|--|--|---------------------------|--------------------|--------------------|--------------------|--------------------|---|--|-------------------------------|------------------------------------|--------|--|
| | | HEURE du chronomètre. | AMPLITUDES. | | | | | CORREC- TIONS dépen- dantes de l'amplit. | SOMME des correc- tions pour cent oscillat. | DURÉE de cent oscillations | | | |
| | | | En parties | | Moyenne-moyenne | en parties. | en degrés. | | | RÉELLES. | INFINIM. PETITES. (Moyennes) | | |
| Arago. Frey. | 1821. Avril 16, à 11 ^h 30' matin. | 1 0 | 11 ^h 19' 44",0 | 13 ^h ,0 | 13 ^h ,0 | 13 ^h ,0 | | | | | | | Température, à 11 ^h 32' matin = 9 ⁴ ,50. Expérience pour voir ce que l'aiguille n° 8 avait perdu de magnétisme pendant le voyage. Aiguille n° 8. |
| | | 2 10 | 21 28,5 | 11,0 | 11,0 | 11,0 | 12 ^h ,0 | 10 ^h ,2 | 1,002 | | | | |
| | | 3 20 | 23 13,4 | 9,0 | 9,0 | 9,0 | 10,0 | 8,6 | 1,002 | | | | |
| | | 4 30 | 24 58,3 | 8,0 | 8,0 | 8,0 | 8,5 | 7,3 | 1,001 | | | | |
| | | 5 40 | 26 43,2 | 7,0 | 7,0 | 7,0 | 7,5 | 6,4 | 1,001 | | | | |
| | | 6 50 | 28 27,1 | 6,0 | 6,0 | 6,0 | 6,5 | 5,6 | 1,001 | | | | |
| | | 7 60 | 30 12,5 | 5,0 | 5,0 | 5,0 | 5,5 | 4,7 | 1,001 | | | | |
| | | 8 70 | 31 56,4 | 5,0 | 5,0 | 5,0 | 5,0 | 4,3 | 1,000 | | | | |
| | | 9 80 | 33 41,2 | 4,5 | 4,5 | 4,5 | 4,7 | 4,0 | 1,000 | | | | |
| | | 10 90 | 35 25,2 | 3,5 | 3,5 | 3,5 | 4,0 | 3,4 | 1,000 | | | | |
| | | 11 100 | 37 10,1 | 3,0 | 3,0 | 3,0 | 3,2 | 2,8 | 1,000 | 10,008 | 10'46",1 | 1045,3 | |
| | | 12 110 | 38 54,4 | 2,0 | 2,0 | 2,0 | 2,5 | 2,1 | 1,000 | 10,006 | 10 45,9 | 1045,3 | |
| Arago. Frey. | 16, à midi 32'. | | | | | | | | | | | 1045,3 | Température, à 0 ^h 33' = 9 ⁴ ,40. Expérience pour voir ce que l'aiguille n° 7 avait perdu de magnétisme pendant le voyage. Aiguille n° 7. |
| | | 1 0 | 0 24 52,5 | 16,5 | 17,0 | 16,7 | | | | | | | |
| | | 2 10 | 26 37,2 | 12,0 | 13,0 | 12,5 | 14,6 | 12,4 | 1,003 | | | | |
| | | 3 20 | 28 22,2 | 9,0 | 10,0 | 9,5 | 11,0 | 9,4 | 1,002 | | | | |
| | | 4 30 | 30 6,5 | 6,5 | 7,5 | 7,0 | 8,2 | 7,1 | 1,001 | | | | |
| | | 5 40 | 31 50,9 | 5,0 | 5,5 | 5,2 | 6,1 | 5,3 | 1,001 | | | | |
| | | 6 50 | 33 34,9 | 4,0 | 4,5 | 4,2 | 4,7 | 4,0 | 1,000 | 5,007 | 5 22,4 | 521,7 | |
| | | 7 60 | 35 18,7 | 3,0 | 4,0 | 3,5 | 3,8 | 3,2 | 1,000 | 5,004 | 5 21,5 | 521,1 | |
| | | 8 70 | 37 3,5 | 2,0 | 3,0 | 2,5 | 3,0 | 2,6 | 1,000 | 5,002 | 5 21,3 | 521,1 | |
| | | 9 80 | 38 48,5 | 1,5 | 3,0 | 2,2 | 2,3 | 1,9 | 1,000 | 5,001 | 5 22,0 | 521,0 | |
| Arago. Frey. | Avril 16, à 1 ^h 0' soir. | | | | | | | | | | | | Température, à 1 ^h 1' soir = 9 ⁴ ,50. Aiguille n° 7. |
| | | 1 0 | 55 32,3 | 15,5 | 17,0 | 16,2 | | | | | | | |
| | | 2 10 | 57 17,2 | 11,5 | 13,0 | 12,2 | 14,2 | 12,1 | 1,003 | | | | |
| | | 3 20 | 59 1,8 | 9,0 | 10,5 | 9,7 | 11,0 | 9,4 | 1,002 | | | | |
| | | 4 30 | 60 46,6 | 7,0 | 8,5 | 7,7 | 8,7 | 7,5 | 1,001 | | | | |
| | | 5 40 | 62 31,0 | 5,0 | 6,5 | 5,7 | 6,7 | 5,8 | 1,001 | | | | |
| | | 6 50 | 64 15,2 | 4,0 | 5,3 | 4,6 | 5,1 | 4,4 | 1,000 | 5,007 | 5 22,9 | 522,2 | |
| | | 7 60 | 65 59,3 | 3,0 | 4,5 | 3,7 | 4,2 | 3,6 | 1,000 | 5,004 | 5 22,1 | 521,7 | |
| | | 8 70 | 67 44,1 | 2,0 | 3,7 | 2,8 | 3,2 | 2,3 | 1,000 | 5,002 | 5 22,3 | 522,1 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Pour cinquante oscillations 521,4 Pour cent oscillations 1042,8 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Température, à 1 ^h 1' soir = 9 ⁴ ,50. Aiguille n° 7. |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Pour cinquante oscillations 522,0 Pour cent oscillations 1044,0 |
| | | | | | | | | | | | | | |

CHAPITRE III.

INCLINAISON DE L'AIGUILLE AIMANTÉE.

§ I^{er}. — *Observations en changeant les pôles.*

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLES N° 2, 3 ET 4. | | | | | | | | | | REMARQUES. | |
|---|------------------------|---|------------|-------------|-------------|---------------------------------|-------------|------------|------------|---|--|------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | INDICES. | | Face à l'O. | Face à l'E. | Face à l'O. | Face à l'E. | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| Frey. | 1817. | 58° 20' 0" | 58° 20' 0" | 57° 32' 0" | 57° 50' 0" | 58° 32' 0" | 58° 50' 0" | 57° 10' 0" | 57° 25' 0" | Azimuts moyens où les observations ont été faites. | | | |
| Lm. | Octobre | 20 | 36 | 20 | 40 | 35 | 40 | 20 | 45 | Face au N. Face au S. | | | |
| Lc. | 27, | 30 | 35 | 20 | 32 | 38 | 50 | 15 | 25 | Points où l'aig. est perpend... | | | |
| Ld. | matin. | 28 | 33 | 10 | 25 | 50 | 52 | 7 | 25 | 280° 28' 110° 28' | | | |
| | | 25 | 40 | 20 | 35 | 40 | 50 | 10 | 15 | Mérid. { Face à l'O. = $\frac{220^\circ 28' + 110^\circ 28'}{2} = 165^\circ 28'$ | | | |
| | | 0 | 3 | 25 | 35 | 30 | 40 | 15 | 15 | mag. { Face à l'E. = $190^\circ 58' - 180^\circ 00' = 10^\circ 58'$ | | | |
| | | 17 | 23 | 15 | 20 | 40 | 45 | 35 | 50 | Avant pôles changés = 57° 55' 15" } 57° 58' 49" Inclin. définitive | | | |
| Moyennes..... | | 50 20 0 | 58 27 8 | 57 20 3 | 57 33 51 | ..... | ..... | ..... | ..... | Après pôles changés = 58 2 23 } | | | |
| A SAINTE-CROIX DE TÉNÉRIFFE (ILES CANARIES). — AIGUILLE N° 2. | | | | | | | | | | | | | |
| Frey. | 1817. | 58° 20' 0" | 58° 20' 0" | 57° 32' 0" | 57° 50' 0" | 58° 32' 0" | 58° 50' 0" | 57° 10' 0" | 57° 25' 0" | Azimuts moyens où les observations ont été faites. | | | |
| Lm. | Octobre | 20 | 36 | 20 | 40 | 35 | 40 | 20 | 45 | Face au N. Face au S. | | | |
| Lc. | 27, | 30 | 35 | 20 | 32 | 38 | 50 | 15 | 25 | Points où l'aig. est perpend... | | | |
| Ld. | matin. | 28 | 33 | 10 | 25 | 50 | 52 | 7 | 25 | 280° 28' 110° 28' | | | |
| | | 25 | 40 | 20 | 35 | 40 | 50 | 10 | 15 | Mérid. { Face à l'O. = $\frac{220^\circ 28' + 110^\circ 28'}{2} = 165^\circ 28'$ | | | |
| | | 0 | 3 | 25 | 35 | 30 | 40 | 15 | 15 | mag. { Face à l'E. = $190^\circ 58' - 180^\circ 00' = 10^\circ 58'$ | | | |
| | | 17 | 23 | 15 | 20 | 40 | 45 | 35 | 50 | Avant pôles changés = 57° 55' 15" } 57° 58' 49" Inclin. définitive | | | |
| Moyennes..... | | 50 20 0 | 58 27 8 | 57 20 3 | 57 33 51 | ..... | ..... | ..... | ..... | Après pôles changés = 58 2 23 } | | | |
| A RIO DE JANEIRO, BRÉSIL. (1^{re} RELÂCHE). — AIGUILLE N° 3. | | | | | | | | | | | | | |
| Frey. | 1818. | 14 20 0 | 14 35 0 | 14 30 0 | 14 50 0 | 15 30 0 | 15 40 0 | 15 0 0 | 15 0 0 | Azimuts moyens où les observations ont été faites. | | | |
| Lm. | Janvier. | 30 | 45 | 4 | 20 | 40 | 5 | 20 | 30 | Face au N. Face au S. | | | |
| Lc. | 1 ^{re} , | 38 | 48 | 5 | 15 | 15 | 15 | 16 | 28 | Points où l'aig. est perpend... | | | |
| Dp. | de midi | 20 | 30 | 0 | 15 | 4 | 18 | 30 | 45 | 150° 36' 42" 320° 35' 24" | | | |
| Fb. | à 4 h. | 15 | 20 | 15 | 31 | 35 | 40 | 35 | 45 | Mérid. { Face à l'O. = $\frac{150^\circ 36' 42'' + 320^\circ 35' 24''}{2} = 235^\circ 10' 33''$ | | | |
| B. | soir. | 15 | 20 | 0 | 0 | 30 | 45 | 35 | 50 | mag. { Face à l'E. = $240^\circ 6' - 180^\circ = 60^\circ 6'$ | | | |
| P. | | 10 | 15 | 15 | 35 | 15 | 20 | 32 | 10 | Avant pôles changés = 14° 20' 42" } 14° 43' 6" Inclin. définitive | | | |
| | | 8 | 17 | 24 | 37 | 25 | 40 | 40 | 5 | Après pôles changés = 15 6 36 } | | | |
| Moyennes..... | | 14 17 18 | 14 27 0 | 14 11 48 | 14 26 48 | ..... | ..... | ..... | ..... | Avant pôles changés = 14° 20' 42" } 14° 43' 6" Inclin. définitive | | | |
| AIGUILLE N° 4. | | | | | | | | | | | | | |
| Lc. | Janvier. | 11 57 0 | 12 30 0 | 11 52 0 | 12 14 0 | 17 45 0 | 17 55 0 | 17 25 0 | 17 40 0 | Azimuts moyens où les observations ont été faites. | | | |
| Db. | 3, avant | 52 | 23 | 48 | 15 | 30 | 53 | 30 | 46 | Face au N. Face au S. | | | |
| | pôles changés | 58 | 21 | 50 | 14 | 30 | 50 | 30 | 50 | Points où l'aig. est perpend... | | | |
| Lc. | 6, après | 55 | 24 | 50 | 14 | 30 | 50 | 30 | 45 | 150° 41' 329° 18' | | | |
| B. | pôles changés | 44 | 8 | 48 | 15 | 24 | 50 | 32 | 47 | Mérid. { Face à l'O. = $\frac{150^\circ 41' + 329^\circ 18'}{2} = 239^\circ 59' 30''$ | | | |
| P. | | 48 | 14 | 58 | 80 | 30 | 45 | 30 | 50 | mag. { Face à l'E. = $239^\circ 59' 30'' - 180^\circ = 59^\circ 59' 30''$ | | | |
| | | 59 | 23 | 48 | 16 | 20 | 45 | 30 | 47 | Avant pôles changés = 12° 2' 42" } 14° 30' 18" Inclin. définitive | | | |
| Moyennes..... | | 11 40 12 | 12 13 42 | 11 51 48 | 12 16 6 | ..... | ..... | ..... | ..... | Après pôles changés = 17 38 0 } | | | |
| AIGUILLE N° 3. | | | | | | | | | | | | | |
| Ld. | Janvier. | 15 13 0 | 15 20 0 | 14 30 0 | 14 20 0 | 14 25 0 | 14 40 0 | 13 53 00 | 14 14 0 | Azimuts moyens où les observations ont été faites. | | | |
| Fr. | 8, avant | 15 | 29 | 30 | 20 | 16 | 38 | 48 | 15 | Face au N. Face au S. | | | |
| | pôles changés | 12 | 20 | 25 | 32 | 20 | 34 | 48 | 15 | Points où l'aig. est perpend... | | | |
| Lc. | 9, après | 14 | 20 | 30 | 20 | 15 | 50 | 47 | 14 | 150° 23' 20" 320° 20' 50" | | | |
| | pôles changés | 12 | 20 | 10 | 30 | 20 | 37 | 50 | 13 | Mérid. { Face à l'O. = $\frac{150^\circ 23' 20'' + 320^\circ 20' 50''}{2} = 235^\circ 52' 5''$ | | | |
| | | 10 | 17 | 15 | 25 | 30 | 30 | 53 | 16 | mag. { Face à l'E. = $235^\circ 52' 5'' - 180^\circ = 55^\circ 52' 5''$ | | | |
| Moyennes..... | | 15 14 54 | 15 26 18 | 14 22 12 | 14 26 42 | ..... | ..... | ..... | ..... | Avant pôles changés = 14° 52' 50" } 14° 32' 54" Inclin. définitive | | | |
|  |  | ..... | ..... | 14 19 0 | 14 32 18 | 13 48 32 | 14 13 18 | ..... | ..... | Après pôles changés = 14 15 18 } | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLES N° 2 ET 5. | | | | | | | | | | REMARQUES. | |
|---|---|--|------------|-------------|------------|---------------------------------|------------|-------------|------------|---|--|------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| RIO DE JANEIRO, BRÉSIL. (1 ^{re} RELÂCHE.) — AIGUILLE N° 2. | | | | | | | | | | | | | |
| Dp. | 1818. | 14° 0' 0" | 14° 15' 0" | 14° 0' 0" | 14° 20' 0" | 14° 15' 0" | 14° 15' 0" | 14° 45' 0" | 14° 45' 0" | Axioms moyens où les observations ont été faites. | | | |
| P. | Janvier, | 0 | 30 | 0 | 15 | 30 | 25 | 40 | 45 | | | | |
| B. | 10, de 8 ^h à 9 ^h , puis de 1 ^h à 2 ^h . | 0 | 15 | 0 | 20 | 30 | 20 | 15 0 | 15 10 | | | | |
| | | 0 | 30 | 13 50 | 10 | 25 | 20 | 0 | 20 | | | | |
| | | 15 | 30 | 40 | 10 | 30 | 30 | 10 | 20 | | | | |
| | | 7 | 30 | 50 | 7 | 20 | 15 | 14 50 | 0 | | | | |
| | | 15 | 30 | 30 | 13 50 | 30 | 35 | 15 0 | 10 | | | | |
| | | 0 | 30 | 30 | 45 | 20 | 30 | 14 55 | 15 | | | | |
| | | 0 | 30 | 15 | 30 | 15 | 30 | 15 0 | 20 | | | | |
| | | 15 | 35 | 14 0 | 14 30 | 15 | 30 | 0 | 15 | | | | |
| Moyennes. | | 14 5 12 | 14 27 30 | 13 45 30 | 14 5 42 | ..... | ..... | ..... | ..... |  |  |  |  |
| | | | | | | 14 23 0 | 14 25 0 | 14 56 0 | 15 8 0 | Avant pôles changés = 14° 50' 59" ; 14° 24' 30" Inclina. définitive | | | |
| | | | | | | | | | | Après pôles changés = 14 43 0 | | | |
| AIGUILLE N° 5. | | | | | | | | | | | | | |
| Frey. | Janvier, | 17 0 0 | 17 30 0 | 17 35 0 | 17 45 0 | 12 37 0 | 13 7 0 | 13 30 0 | 14 0 0 | Axiom. moy. où les observ. ont été faites. | | | |
| Lc. | 12, de 4 ^h à 5 ^h soir | 5 | 8 | 30 | 30 | 0 | 12 20 | 10 | 13 15 | | | | |
| | " | " | " | " | " | 7 | 11 52 | " | " | | | | |
| | " | " | " | " | " | 0 | 45 | " | " | | | | |
| | " | " | " | " | " | 10 | 14 20 | " | " | | | | |
| | " | " | " | " | " | 17 | 13 37 | " | " | | | | |
| Moyennes. | | 17 2 30 | 17 19 0 | 17 32 30 | 17 37 30 | ..... | ..... | ..... | ..... | Avant pôles changés = 17° 22' 54" ; 15° 11' 24" inclina. définitive | | | |
| | | | | | | 12 11 48 | 12 50 12 | 12 20 0 | 13 37 30 | Après pôles changés = 12 59 54 | | | |
| Dp. | 13, av. pôles changés. | 14 0 0 | 14 0 0 | 12 30 0 | 12 30 0 | 17 40 0 | 17 30 0 | 17 0 0 | 17 10 0 | | | | |
| Ld. | 10 | 10 | 40 | 30 | 38 | 35 | 10 | 10 | 10 | | | | |
| | 13 40 | 13 50 | 30 | 40 | 45 | 45 | 0 | 10 | 10 | | | | |
| | 14, après ce changé. | 40 | 13 5 | 13 0 | 38 | 30 | 15 | 10 | 10 | | | | |
| | 45 | 45 | 12 35 | 12 45 | 35 | 20 | 10 | 20 | 20 | | | | |
| | 45 | 45 | 13 0 | 40 | 30 | 15 | 15 | 20 | 20 | | | | |
| | 40 | 45 | 12 45 | 40 | 33 | 10 | 20 | 25 | 25 | | | | |
| | 45 | 30 | 12 45 | 40 | 28 | 20 | 25 | 20 | 20 | | | | |
| | 30 | 30 | 30 | 20 | 30 | 10 | 25 | 25 | 20 | | | | |
| | 40 | 40 | 10 | 10 | 30 | 10 | 25 | 25 | 20 | | | | |
| | 30 | 30 | 20 | 10 | 20 | 3 | 25 | 25 | 20 | | | | |
| Moyennes. | | 13 44 30 | 13 44 0 | 12 35 30 | 12 33 30 | ..... | ..... | ..... | ..... | Avant pôles changés = 17° 22' 54" ; 15° 11' 24" inclina. définitive | | | |
| | | | | | | 17 33 42 | 17 21 48 | 17 14 30 | 17 16 30 | Après pôles changés = 12 59 54 | | | |
| CAPE-TOWN, CAP DE BONNE-ESPÉRANCE. (AFRIQUE.) — AIGUILLE N° 2. | | | | | | | | | | | | | |
| Frey. | Mars, | 51 30 0 | 52 0 0 | 49 45 0 | 49 30 0 | 50 30 0 | 50 0 0 | 52 0 0 | 51 45 0 | Axioms moyens où les observations ont été faites. | | | |
| Dp. | 18, | 30 | 51 30 | 0 | 0 | 30 | 45 | 51 45 | 52 0 | | | | |
| R. | 45 | 52 15 | 50 0 | 50 0 | 30 | 30 | 45 | 30 | 51 55 | | | | |
| Db. | 2 ^h à 4 ^h soir, avant pôles changés | 0 | 0 | 49 30 | 0 | 0 | 45 | 30 | 52 0 | | | | |
| | 45 | 0 | 20 | 49 30 | 5 | 15 | 30 | 52 0 | 51 30 | | | | |
| | 30 | 0 | 45 | 52 | 30 | 0 | 52 0 | 51 30 | 45 | | | | |
| | 0 | 51 37 | 7 | 0 | 0 | 15 | 51 30 | 30 | 45 | | | | |
| | 22 | 37 | 50 0 | 50 0 | 30 | 51 0 | 30 | 15 | 0 | | | | |
| | 30 | 52 0 | 49 35 | 49 45 | 51 0 | 50 0 | 15 | 0 | 0 | | | | |
| | de 6 ^h à 7 ^h soir, après ce change- ment. | 45 | 15 | 50 15 | 50 30 | 50 30 | 51 0 | 15 | 0 | | | | |
| | 52 0 | 20 | 49 20 | 48 50 | 30 | 0 | 15 | 0 | 30 | | | | |
| | 50 30 | 51 7 | 50 5 | 50 15 | 51 15 | 0 | 0 | 0 | 30 | | | | |
| | 51 0 | 7 | 49 55 | 42 | 50 55 | 0 | 45 | 30 | 30 | | | | |
| | 50 | 40 | 49 45 | 30 | 51 15 | 0 | 30 | 45 | 45 | | | | |
| | 10 | 30 | 50 0 | 0 | 50 45 | 15 | 37 | 30 | 30 | | | | |
| | 35 | 40 | 0 | 15 | 51 0 | 15 | 37 | 30 | 30 | | | | |
| | 55 | 52 5 | 49 55 | 0 | 0 | 15 | 30 | 25 | 30 | | | | |
| | 45 | 0 | 45 | 5 | 50 30 | 0 | 25 | 30 | 30 | | | | |
| | 30 | 51 45 | 50 | 0 | 30 | 50 30 | 30 | 45 | 45 | | | | |
| Moyennes. | | 51 27 21 | 51 47 54 | 49 48 6 | 49 55 12 | ..... | ..... | ..... | ..... | Avant pôles changés = 50° 44' 38" ; 50° 55' 8" Inclina. définitive | | | |
| | | | | | | 51 32 6 | 51 32 45 | 50 37 30 | 50 40 15 | Après pôles changés = 51 5 39 | | | |

| OBSERVATEUR. DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLES N° 3 ET 4. | | | | | | | | | | REMARQUES. | | |
|---|---|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|---|--------------------------------|------------|--|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | |
| CAPE-TOWN, CAP DE BONNE-ESPÉRANCE. (AFRIQUE.) — AIGUILLE N° 3. | | | | | | | | | | | | | | |
| Frey. | 1818. Mars, 20, de 8 ^h à 9 ^h matin. | 50°30' 0" | 50°55' 0" | 50° 0' 0" | 50°30' 0" | 51° 0' 0" | 50°45' 0" | 51° 0' 0" | 15°15' 0" | Azimuts moyens où les observations ont été faites. | | | | |
| | 30 | 50 | 0 | 30 | 0 | 51 30 | 15 | 10 | | Face au N. \| Face au S. | | | | |
| | 30 | 50 | 0 | 15 | 15 | 15 | 5 | 15 | | 125° 55' | 306° 25' | | | |
| | 30 | 50 | 10 | 30 | 35 | 15 | 0 | 15 | | Points où l'aig. est perpend.. | | | | |
| | 30 | 40 | 0 | 25 | 10 | 30 | 0 | 15 | | Mérid. { Face à l'O. = $\frac{306^{\circ}25' + 125^{\circ}55'}{2} = 216^{\circ}10'$ | | | | |
| | 30 | 51 0 | 0 | 15 | 10 | 30 | 10 | 15 | | mag. { Face à l'E. = $216^{\circ}10' - 180^{\circ} = 36^{\circ}10'$ | | | | |
| | 15 | 50 30 | 0 | 15 | 0 | 30 | 15 | 10 | | | | | | |
| | 45 | 51 0 | 0 | 30 | 45 | 30 | 30 | 10 | | | | | | |
| | 30 | 50 40 | 15 | 30 | 0 | 15 | 10 | 15 | | | | | | |
| | 25 | 45 | 0 | 30 | 15 | 50 | 0 | 15 | | | | | | |
| Moyennes | 50 29 30 | 50 48 0 | 50 1 30 | 50 25 0 | ..... | ..... | ..... | ..... | ..... | Av ¹ pôles changés = 50°26' 0", 0 | { 50°50'11" Inclin. définitive | | | |
|  |  | ..... | ..... | 51 13 0 | 51 23 0 | 51 8 0 | 51 13 30 | | | Après pôles chang. = 51 14 22, 5, | | | | |
| PORT-LOUIS, ILE-DE-FRANCE. — AIGUILLE N° 3. | | | | | | | | | | | | | | |
| Frey. | Juin , Lim. R. | 55 30 0 | 55 45 0 | 55 0 0 | 55 45 0 | 54 57 0 | 54 50 0 | 54 30 0 | 54 52 0 | Azimuts moyens où les observations ont été faites. | | | | |
| | 0 | 32 | 0 | 15 | 15 | 55 5 | 20 | 55 40 | | Face au N. \| Face au S. | | | | |
| | 15 | 30 | 0 | 15 | 15 | 0 | 20 | 45 | | 135° 9' 33" | 313° 33' 26" | | | |
| | 45 | 15 | 54 57 | 7 | 7 | 15 | 30 | 54 45 | | Points où l'aig. est perpend.. | | | | |
| | 7 | 45 | 55 0 | 0 | 12 | 15 | 15 | 45 | | Mérid. { Face à l'O. = $\frac{313^{\circ}33'26" + 133^{\circ}9'33"}{2} = 223^{\circ}21'29"$ | | | | |
| | 22 | 30 | 0 | 54 30 | 15 | 30 | 22 | 45 | | mag. { Face à l'E. = $223^{\circ}21'29" - 180^{\circ} = 43^{\circ}21'29"$ | | | | |
| | 15 | 20 | 54 55 | 55 0 | 7 | 30 | 55 37 | 37 | | | | | | |
| | 15 | 52 | 55 7 | 5 | 0 | 7 | 54 22 | 30 | | | | | | |
| | 20 | 22 | .32 | 7 | 0 | 15 | 20 | 30 | | | | | | |
| | 7 | 22 | 0 | 54 55 | 7 | 15 | 22 | 30 | | | | | | |
| | 15 | 37 | 54 57 | 55 0 | 15 | 22 | 25 | 30 | | | | | | |
| | 45 | 20 | 55 0 | 0 | 10 | 10 | 25 | 15 | | | | | | |
| | 30 | 35 | 10 | 5 | 15 | 30 | 22 | 45 | | | | | | |
| | 12 | 22 | 7 | 10 | 54 52 | 57 | 30 | 30 | | | | | | |
| | 0 | 30 | 0 | 54 52 | 57 | 7 | 22 | 30 | | | | | | |
| | 30 | 52 | 15 | 55,15 | 55 7 | 5 | 15 | 30 | | | | | | |
| | 22 | 45 | 10 | 15 | 10 | 12 | 27 | 37 | | | | | | |
| | 15 | 30 | 0 | 17 | 15 | 15 | 22 | 32 | | | | | | |
| | 20 | 30 | 54 52 | 54 52 | 7 | 15 | 22 | 30 | | | | | | |
| | 7 | 25 | 45 | 55 5 | 15 | 17 | 40 | 45 | | | | | | |
| Moyennes | 55 18 36 | 55 31 57 | 55 2 21 | 55 5 9 | ..... | ..... | ..... | ..... | ..... | Avant pôles changés = 55°12' 1" | { 55°2'21" Inclin. définitive | | | |
|  |  | ..... | ..... | 55 7 54 | 55 12 36 | 54 27 24 | 54 42 51 | | | Après pôles changé = 54 52 41 | | | | |
| AIGUILLE N° 4. | | | | | | | | | | | | | | |
| Dp. Fb. B. | Juin , de 1 ^h à 1 ^h 15' soir, avant pôles changés de 1 ^h 30' à 2 ^h soir, après ce change- ment. | 56 45 0 | 56 45 0 | 57 0 0 | 56 45 0 | 53 15 0 | 53 54 0 | 52 0 0 | 52 30 0 | Azimuts moyens où les observations ont été faites. | | | | |
| | 15 | 30 | 56 55 | 57 0 | 54 0 | 54 0 | 30 | 30 | | Face au N. \| Face au S. | | | | |
| | 30 | 57 0 | 57 0 | 15 | 53 15 | 15 | 30 | 30 | | 313° 12' 18" | 132° 44' | | | |
| | 0 | 56 30 | 15 | 56 45 | 54 0 | 0 | 45 | 30 | | Points où l'aig. est perpend.. | | | | |
| | 30 | 30 | 56 45 | 57 0 | 53 30 | 53 45 | 30 | 45 | | Mérid. { Face à l'O. = $\frac{313^{\circ}12'18" + 132^{\circ}44'}{2} = 222^{\circ}58'6"$ | | | | |
| | 45 | 45 | 57 0 | 0 | 45 | 45 | 45 | 53 0 | | mag. { Face à l'E. = $222^{\circ}58'6" - 180^{\circ} = 42^{\circ}58'6"$ | | | | |
| | 30 | 57 0 | 56 45 | 56 45 | 30 | 54 0 | 53 0 | 0 | | | | | | |
| | 45 | 56 30 | 57 0 | 57 10 | 30 | 0 | 52 30 | 0 | | | | | | |
| | 20 | 40 | 56 45 | 0 | 40 | 53 0 | 45 | 0 | | | | | | |
| | 5 | 30 | 45 | 56 55 | 30 | 54 15 | 53 0 | 0 | | | | | | |
| | 15 | 45 | 45 | 45 | 20 | 0 | 0 | 52 30 | | | | | | |
| | 15 | 30 | 50 | 57 0 | 15 | 0 | 0 | 53 0 | | | | | | |
| | 5 | 45 | 57 0 | 0 | 54 15 | 15 | 52 45 | 0 | | | | | | |
| | 25 | 45 | 15 | 20 | 53 15 | 0 | 45 | 0 | | | | | | |
| | 5 | 45 | 0 | 10 | 0 | 0 | 45 | 0 | | | | | | |
| | 5 | 45 | 15 | 20 | 15 | 15 | 45 | 0 | | | | | | |
| | 5 | 45 | 56 45 | 0 | 30 | 0 | 53 0 | 0 | | | | | | |
| | 15 | 35 | 45 | 0 | 30 | 0 | 0 | 20 | | | | | | |
| | 5 | 45 | 50 | 10 | 0 | 0 | 52 45 | 0 | | | | | | |
| | 0 | 45 | 45 | 0 | 45 | 0 | 50 | 10 | | | | | | |
| Moyennes | 56 18 0 | 56 41 0 | 56 55 0 | 57 1 0 | ..... | ..... | ..... | ..... | ..... | Avant pôles changés = 56°43'42" | { 54°50'48" Inclin. définitive | | | |
|  |  | ..... | ..... | 53 30 0 | 53 58 12 | 52 44 6 | 52 51 30 | | | Après pôles changé = 53 15 54 | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLES N° 2, 1 ET 3. | | | | | | | | | | REMARQUES. | |
|---|---------------------------------------|---|-----------|-------------|-----------|----------------------------------|-----------|-------------|-----------|--|--|------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICCTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| PORT-LOUIS, ILE-DE-FRANCE. — AIGUILLE N° 2. | | | | | | | | | | | | | |
| Frey. | 1818. | 56°15' 0" | 56°15' 0" | 54°30' 0" | 54°45' 0" | 55° 7' 0" | 55°15' 0" | 54°39' 0" | 54°52' 0" | Ajustements moyens où les observations ont été faites. | | | |
| Dp. | Juin, | 0 | 30 | 15 | 45 | 5 | 12 | 42 | 52 | | | | |
| Fb. | 19, | 0 | 50 | 45 | 55 0 | 7 | 15 | 37 | 57 | | | | |
| B. | de 3 ^h à 4 ^h | 15 | 30 | 55 0 | 5 | 12 | 15 | 40 | 52 | | | | |
| | soir, | 10 | 40 | 54 30 | 0 | 5 | 12 | 20 | 37 | | | | |
| | avant | 0 | 30 | 30 | 0 | 2 | 15 | 17 | 32 | | | | |
| | pôles | 15 | 40 | 30 | 0 | 7 | 12 | 15 | 17 | | | | |
| | changés | 55 | 10 | 55 0 | 0 | 10 | 15 | 7 | 35 | | | | |
| | | 5 | 30 | 0 | 0 | 22 | 25 | 25 | 20 | | | | |
| | | 40 | 30 | 40 | 55 5 | 7 | 12 | 30 | 35 | | | | |
| Frey. | 17, | 10 | 30 | 54 55 | 54 37 | 5 | 25 | 20 | 25 | | | | |
| Lc. | de | 0 | 45 | 55 0 | 55 0 | 13 | 25 | 15 | 30 | | | | |
| G. | 7° 15' | 55 52 | 45 | 54 57 | 0 | 10 | 22 | 25 | 25 | | | | |
| | à 8° | 56 15 | 52 | 45 | 0 | 10 | 0 | 30 | 35 | | | | |
| | matin, | 15 | 45 | 55 0 | 0 | 0 | 30 | 30 | 40 | | | | |
| | après | 30 | 30 | 54 45 | 54 37 | 7 | 40 | 40 | 45 | | | | |
| | ce | 30 | 30 | 42 | 45 | 5 | 2 | 22 | 30 | | | | |
| | change- ment. | 15 | 30 | 35 | 55 | 10 | 0 | 12 | 35 | | | | |
| | | 30 | 30 | 45 | 55 0 | 25 | 30 | 15 | 27 | | | | |
| | | 15 | 15 | 42 | 0 | 15 | 17 | 17 | 25 | | | | |
| Moyennes | | 56 15 6 | 56 32 48 | 54 47 18 | 54 55 42 | ..... | ..... | ..... | ..... |  |  |  |  |
| | | | | | | 55 9 12 | 55 16 54 | 54 22 30 | 54 35 18 | Points où l'aig. est perpend.. | | | |
| | | | | | | | | | | Face au N. Face au S. | | | |
| | | | | | | | | | | 134°35' 40" 312° 50' | | | |
| | | | | | | | | | | Mérid. { Face à l'O. = $\frac{312^{\circ} 50' + 134^{\circ} 35' 40'}{2}$ = 223°43'50'' | | | |
| | | | | | | | | | | magn. { Face à l'E. = 223° 42' 50" - 180° = 42° 42' 50" | | | |
| AIGUILLE N° 1. | | | | | | | | | | | | | |
| Frey. | Juin, | 55 40 0 | 55 45 0 | 54 25 0 | 54 50 0 | 55 2 0 | 55 22 0 | 54 50 0 | 55 0 0 | Ajustements moyens où les observations ont été faites. | | | |
| Lc. | de | 37 | 42 | 27 | 40 | 2 | 17 | 40 | 5 | | | | |
| Fb. | 9° 35' | 32 | 35 | 17 | 45 | 11 | 30 | 50 | 15 | | | | |
| | à 11 ^h | 37 | 41 | 22 | 22 | 10 | 17 | 55 | 0 | | | | |
| | matin, | 40 | 35 | 17 | 25 | 15 | 32 | 55 | 10 | | | | |
| | avant | 37 | 35 | 12 | 25 | 10 | 27 | 55 | 7 | | | | |
| | pôles | 27 | 50 | 30 | 25 | 7 | 15 | 50 | 12 | | | | |
| | changés | 30 | 45 | 15 | 15 | 12 | 10 | 50 | 7 | | | | |
| | | 57 | 55 | 30 | 22 | 15 | 25 | 55 | 10 | | | | |
| | de | 54 55 | 12 | 47 | 45 | 42 | 5 | 32 | 30 | | | | |
| | 1 ^h 30' | 55 | 57 | 45 | 47 | 47 | 5 | 45 | 45 | | | | |
| | à 3 ^h | 52 | 57 | 45 | 47 | 40 | 7 | 30 | 52 | | | | |
| | soir, | 55 0 | 57 | 45 | 55 | 47 | 10 | 35 | 50 | | | | |
| | après | 54 55 | 0 | 47 | 55 | 42 | 10 | 30 | 45 | | | | |
| | ce | 57 | 0 | 45 | 57 | 52 | 10 | 27 | 42 | | | | |
| | change- ment. | 55 5 | 5 | 42 | 50 | 45 | 5 | 30 | 40 | | | | |
| | | 54 52 | 20 | 45 | 47 | 40 | 0 | 32 | 42 | | | | |
| | | 52 | 15 | 35 | 45 | 0 | 0 | 30 | 52 | | | | |
| | | 52 | 15 | 30 | 45 | 0 | 20 | 30 | 52 | | | | |
| Moyennes | | 55 16 0 | 55 21 0 | 54 2 0 | 54 9 0 | ..... | ..... | ..... | ..... | Avant pôles changés = 54°42' 0" | | | |
| | | | | | | 55 1 0 | 55 15 0 | 54 42 0 | 54 56 0 | Après pôles changés = 54 58 30 | | | |
| | | | | | | | | | | 54°50'15" India. définitive | | | |
| AIGUILLE N° 3. | | | | | | | | | | | | | |
| Lc. | Juin, | 55 7 0 | 55 2 0 | 54 40 0 | 54 52 0 | 55 15 0 | 55 22 0 | 55 33 0 | 55 55 0 | Ajustements moyens où les observations ont été faites. | | | |
| G. | 21, de 10 ^h 45' | 7 | 54 57 | 50 | 55 12 | 10 | 12 | 40 | 55 | | | | |
| | matin | 10 | 55 2 | 45 | 54 57 | 7 | 17 | 32 | 52 | | | | |
| | à | 7 | 10 | 35 | 50 | 15 | 20 | 32 | 57 | | | | |
| | 1 ^h 35' | 7 | 14 | 37 | 55 0 | 17 | 15 | 35 | 52 | | | | |
| | soir, | 5 | 7 | 42 | 54 50 | 10 | 20 | 32 | 52 | | | | |
| | avant | 12 | 7 | 32 | 52 | 15 | 22 | 35 | 55 | | | | |
| | pôles | 7 | 5 | 30 | 55 | 15 | 17 | 36 | 55 | | | | |
| | changés | 7 | 55 2 | 42 | 55 | 12 | 20 | 35 | 57 | | | | |
| | | 7 | 15 | 37 | 47 | 12 | 17 | 37 | 52 | | | | |
| | | | | | | 15 | 32 | 57 | | | | | |
| | | | | | | | | | | Points où l'aig. est perpend.. | | | |
| | | | | | | | | | | Face au N. Face au S. | | | |
| | | | | | | | | | | 133° 23' 6" 313° 5' 12" | | | |
| | | | | | | | | | | Points où l'aig. est perpend.. | | | |
| | | | | | | | | | | Face à l'O. = $\frac{313^{\circ} 5' 12'' + 133^{\circ} 23' 6''}{2}$ = 223°15'36" | | | |
| | | | | | | | | | | magn. { Face à l'E. = 223° 15' 36" - 180° = 43° 15' 36" | | | |

| OBSERVATIONS. DATES et HEURES. | INDEXES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 3. | | | | | | | | | | REMARQUES. | |
|---|--|--|------------|-------------|------------|---------------------------------|------------|-------------|------------|---|--------------|------------|--|
| | | AVANT D'AVOIR CHARGÉ LES PÔLES. | | | | PÔLES CHARGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'E. | | Face à l'O. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| 2 ^h 20' à 3 ^h 45' | N. alternativement attiré et repoussé. | 55° 7' 0" | 55° 10' 0" | 54° 47' 0" | 54° 52' 0" | 55° 10' 0" | 55° 17' 0" | 55° 37' 0" | 55° 55' 0" | | | | |
| soir, après pôles changés | | 7 | 7 | 37 | 55 0 | 5 | 15 | 32 | 55 | | | | |
| | | 7 | 7 | 42 | 54 57 | 5 | 20 | 32 | 52 | | | | |
| | | 15 | 10 | 30 | 55 0 | 7 | 15 | 32 | 52 | | | | |
| | | 54 52 | 54 47 | 25 | 54 37 | 54 50 | 0 | 10 | 25 | | | | |
| | | 47 | 52 | 17 | 37 | 52 | 2 | 10 | 32 | | | | |
| | | 47 | 47 | 20 | 40 | 50 | 2 | 10 | 32 | | | | |
| | | 40 | 47 | 20 | 40 | 52 | 12 | 12 | 27 | | | | |
| | | 50 | 52 | 17 | 40 | 55 | 5 | 12 | 25 | | | | |
| | | 47 | 47 | 22 | 40 | 55 | 0 | 20 | 37 | | | | |
| | | 47 | 50 | 25 | 45 | 50 | 5 | 7 | 27 | | | | |
| | | 47 | 52 | 17 | 40 | 52 | 2 | 17 | 20 | | | | |
| | | 50 | 45 | 25 | 40 | 45 | 54 55 | 10 | 32 | | | | |
| | | 45 | 50 | 20 | 30 | 52 | 57 | 15 | 35 | | | | |
| | | 42 | 47 | 22 | 30 | 0 | 57 | 7 | 30 | | | | |
| | | 57 | 52 | 20 | 32 | 47 | 57 | 5 | 25 | | | | |
| | | 47 | 50 | 12 | 37 | 55 | 52 | 15 | 37 | | | | |
| | | 52 | 57 | 18 | 40 | 0 | 57 | 15 | 35 | | | | |
| | | 50 | 50 | 10 | 42 | 52 | 55 2 | 10 | 20 | | | | |
| Moyennes..... | | 54 58 6 | 54 57 12 | 54 28 54 | 54 46 54 | ..... | ..... | ..... | ..... | Avant pôles changés = 54° 47' 45" { 55° 8' 21" Inclin. définitive. | | | |
|  |  | ..... | ..... | ..... | ..... | 55 1 48 | 55 9 0 | 55 23 0 | 55 41 42 | Après pôles changés = 55 18 54 | | | |
| AIGUILLE N° 3. | | | | | | | | | | | | | |
| Lc. 1818. | | 55 32 0 | 55 25 0 | 55 5 0 | 55 35 0 | 54 10 0 | 541 0 | 53 47 0 | 54 10 0 | Axe moyen où les observations ont été faites. | | | |
| Db. Juillet, | | 35 | 32 | 7 | 32 | 7 | 20 | 47 | 12 | Face au N. | Face au S. | | |
| 4, de 0 ^h 45' | | 35 | 35 | 2 | 32 | 10 | 20 | 50 | 10 | 133° 56' 24" | 313° 10' 18" | | |
| à 2 ^h 45' | | 32 | 30 | 5 | 32 | 10 | 17 | 50 | 12 | | | | |
| soir, avant pôles changés | | 32 | 35 | 5 | 30 | 12 | 20 | 50 | 10 | | | | |
| 35 | | 32 | 5 | 30 | 10 | 22 | 50 | 10 | | | | | |
| 30 | | 30 | 5 | 30 | 12 | 20 | 50 | 7 | | | | | |
| 30 | | 30 | 15 | 20 | 10 | 20 | 50 | 7 | | | | | |
| 30 | | 30 | 15 | 25 | 10 | 22 | 50 | 5 | | | | | |
| 30 | | 30 | 15 | 25 | 12 | 20 | 52 | 10 | | | | | |
| 52 | | 55 | 35 | 50 | 37 | 40 | 54 5 | 30 | | | | | |
| 57 | | 52 | 35 | 50 | 37 | 42 | 11 | 32 | | | | | |
| 55 | | 52 | 32 | 45 | 37 | 40 | 7 | 32 | | | | | |
| 58 | | 50 | 35 | 50 | 35 | 42 | 5 | 30 | | | | | |
| 57 | | 55 | 42 | 45 | 37 | 45 | 7 | 30 | | | | | |
| 55 | | 52 | 35 | 50 | 37 | 42 | 10 | 30 | | | | | |
| 55 | | 55 | 35 | 50 | 35 | 42 | 5 | 32 | | | | | |
| 55 | | 50 | 45 | 45 | 40 | 42 | 5 | 30 | | | | | |
| 45 | | 45 | 35 | 55 | 37 | 42 | 7 | 22 | | | | | |
| 50 | | 45 | 30 | 50 | 35 | 42 | 5 | 30 | | | | | |
| Moyennes..... | | 55 42 42 | 55 41 0 | 55 21 36 | 55 34 0 | ..... | ..... | ..... | ..... | Avant pôles changés = 55° 34' 40" { 54° 56' 50" Inclin. définitive. | | | |
|  |  | ..... | ..... | ..... | ..... | 54 23 30 | 54 30 42 | 53 58 0 | 54 20 0 | Après pôles changés(1) = 54 19 3 | | | |
| (1) Le bout que nous désignons ici par A est, comme on voit après ce changement des pôles, la partie la plus pesante de l'aiguille. | | | | | | | | | | | | | |
| Faisons $z' = 90^\circ - (55^\circ 34' 40'') = 34^\circ 25' 10''$ $s'' = 90^\circ - (54^\circ 19' 3'') = 35^\circ 40' 57'',0$ | | | | | | | | | | | | | |
| Nous aurons $s'' = 1^\circ 15' 46'' 2 = 4^\circ 546'',2$ | | | | | | | | | | | | | |
| Et pour l'inclinaison angle au zénith, $z = \frac{1}{2} (s + s'') = 35^\circ 3' 3'',9$ | | | | | | | | | | | | | |
| Par conséquent $s' = \frac{s'' - s}{\sin z} = \frac{4^\circ 546'',2}{\sin 35^\circ 3' 3'',9} = 7^\circ 915'',98$ | | | | | | | | | | | | | |
| C'est l'expression de l'effet angulaire produit par l'excédant de pesanteur de la partie la plus lourde de l'aiguille sur sa partie légère, quand l'inclinaison est zéro. Cet excédant augmente les inclinaisons quand la pointe A est dirigée en bas ; elle les diminue dans le cas contraire. | | | | | | | | | | | | | |

CHAP. III.—INCLINAISON DE L'AIGUILLE AIMANTÉE.

47

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLES N° 3 ET 2. | | | | | | | | REMARQUES. | |
|--|-------------------|--|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|---|------------------------------|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| A LA PRESQU'ILE PÉRON. — BAIE DES CHIENS-MARINS (NOUVELLE-HOLLANDE). — AIGUILLE N° 3. | | | | | | | | | | | | |
| Frey. | 1818. | N. alternativement attiré et repoussé. | 54°15' 0" | 54°30' 0" | 54° 7' 0" | 54°30' 0" | 55°30' 0" | 55°45' 0" | 54°45' 0" | 55° 7' 0" | Azimuts moyens où les observations doivent être faites. | |
| Lm. | Sept. | | 30 | 30 | 0 | 15 | 30 | 37 | 55 0 | 15 | Face au N. | Face au S. |
| G. | 23, | | 22 | 30 | 0 | 0 | 22 | 15 | 0 | 7 | 168°2'54" | 348°3'0" |
| | de 6 ^h | | 37 | 30 | 15 | 15 | 30 | 30 | 37 | 15 | | |
| | à 7 ^h | | 22 | 30 | 0 | 30 | 7 | 45 | 54 50 | 54 45 | | |
| | matin, | | 30 | 55 0 | 30 | 7 | 5 | 25 | 55 | 30 | | |
| | avant | | 15 | 30 | 0 | 15 | 10 | 35 | 55 | 50 | | |
| | de | | 30 | 15 | 0 | 30 | 5 | 37 | 50 | 50 | | |
| | changer | | 30 | 30 | 0 | 5 | 5 | 30 | 55 | 50 | | |
| | les | | 15 | 22 | 0 | 5 | 5 | 40 | 55 15 | 55 0 | | |
| | pôles. | | 15 | 30 | 5 | 25 | 15 | 37 | 0 | 15 | | |
| | De 1 ^h | | 17 | 27 | 0 | 10 | 15 | 37 | 7 | 54 52 | | |
| | à 2 ^h | | 15 | 35 | 0 | 15 | 15 | 45 | 0 | 50 | | |
| | soir, | | 12 | 30 | 53 55 | 0 | 45 | 37 | 54 55 | 55 5 | | |
| | après | | 52 | 25 | 55 | 0 | 15 | 45 | 55 0 | 0 | | |
| | ce | | 20 | 10 | 54 0 | 0 | 15 | 45 | 10 | 10 | | |
| | cham- | | 27 | 45 | 5 | 5 | 15 | 45 | 0 | 5 | | |
| | gement. | | 17 | 42 | 10 | 8 | 15 | 25 | 0 | 0 | | |
| | | | 12 | 25 | 0 | 10 | 15 | 37 | 54 50 | 5 | | |
| | | | 12 | 30 | 0 | 0 | 20 | 45 | 55 0 | 5 | | |
| | | | 15 | 55 10 | 0 | 10 | 20 | 45 | 5 | 15 | | |
| | | | 30 | 55 | 5 | 10 | 15 | 35 | 5 | 10 | | |
| | | | 30 | 55 | 7 | 0 | 15 | 45 | 15 | 7 | | |
| | | | 30 | 45 | 35 | 30 | 30 | 45 | 0 | 12 | | |
| Moyennes..... | 54 22 48 | | 54 2 54 | 54 4 30 | 54 11 30 | ..... | ..... | ..... | ..... | ..... |  |  |
|  |  |  | ..... | ..... | 55 17 12 | 55 37 48 | 55 1 12 | 55 1 42 | | | | |
| AIGUILLE N° 2. | | | | | | | | | | | | |
| Frey. | 24, | N. alternativement attiré et repoussé. | 55°15' 0" | 55°30' 0" | 54°55' 0" | 54°45' 0" | 54°30' 0" | 54°30' 0" | 55° 0' 0" | 55° 0' 0" | Azimuts moyens où les observations ont été faites. | |
| Lm. | après | | 0 | 30 | 55 0 | 45 | 30 | 45 | 54 45 | 30 | Face au N. | Face au S. |
| Fb. | midi. | | 0 | 30 | 54 35 | 45 | 30 | 45 | 55 0 | 5 | 168°30' | 347°30' |
| G. | | | 0 | 30 | 52 | 47 | 5 | 50 | 15 | 0 | | |
| | | | 0 | 22 | 45 | 55 0 | 25 | 50 | 54 55 | 30 | | |
| | | | 0 | 15 | 45 | 54 37 | 40 | 50 | 55 30 | 25 | | |
| | | | 0 | 37 | 15 | 55 7 | 30 | 45 | 27 | 0 | | |
| | | | 0 | 45 | 30 | 0 | 40 | 37 | 15 | 0 | | |
| | | | 0 | 37 | 37 | 54 52 | 40 | 55 | 54 45 | 30 | | |
| | | | 54 52 | 30 | 30 | 55 0 | 45 | 45 | 55 15 | 30 | | |
| | | | 45 | 30 | 30 | 0 | 30 | 40 | 15 | 35 | | |
| | | | 55 0 | 45 | 30 | 0 | 45 | 55 | 22 | 25 | | |
| | | | 54 52 | 45 | 52 | 54 40 | 30 | 45 | 15 | 20 | | |
| | | | 50 | 22 | 45 | 37 | 45 | 50 | 25 | 35 | | |
| | | | 37 | 15 | 45 | 25 | 30 | 55 5 | 40 | 30 | | |
| | | | 55 7 | 15 | 30 | 30 | 45 | 54 55 | 30 | 37 | | |
| | | | 7 | 37 | 37 | 37 | 30 | 50 | 25 | 35 | | |
| | | | 54 52 | 30 | 45 | 52 | 50 | 55 0 | 40 | 25 | | |
| | | | 50 | 27 | 45 | 30 | 45 | 54 55 | 15 | 40 | | |
| | | | 55 | 15 | 30 | 50 | 30 | 55 5 | 30 | 35 | | |
| | | | 55 | 20 | 35 | 55 0 | 30 | 54 52 | 7 | 30 | | |
| | | | 45 | 10 | 50 | 54 45 | 22 | 52 | 5 | 35 | | |
| | | | 55 | 30 | 47 | 45 | 20 | 45 | 15 | 37 | | |
| | | | 45 | 10 | 50 | 30 | 22 | 45 | 10 | 35 | | |
| | | | 20 | 10 | 30 | 55 | 20 | 40 | 15 | 37 | | |
| | | | 55 10 | 25 | 50 | 55 | 45 | 57 | 30 | 37 | | |
| | | | 10 | 35 | 50 | 30 | 35 | 55 0 | 15 | 37 | | |
| | | | 10 | 35 | 30 | 45 | 35 | 10 | 22 | 45 | | |
| | | | 5 | 40 | 50 | 55 0 | 37 | 0 | 15 | 40 | | |
| | | | 54 50 | 22 | 40 | 0 | 30 | 54 55 | 25 | 45 | | |
| Moyennes..... | 54 57 12 | | 55 26 18 | 54 40 30 | 54 48 42 | ..... | ..... | ..... | ..... | ..... | Avant pôles changés = 54°58' 6" | 54°59'42" Inclin. définitif. |
|  |  |  | ..... | ..... | 54 33 0 | 54 50 24 | 55 12 48 | 55 29 0 | | | Après pôles changés = 55 1 18 | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATION. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLES N° 0 ET 3. | | | | | | | | | | REMARQUES. | |
|---------------------------------------|---|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|--|--|-------------------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 60 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'E. | | Face à l'O. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| Frey. | 1818. | 31°25' 0" | 31°40' 0" | 30°22' 0" | 30°45' 0" | 34°45' 0" | 34°50' 0" | 34°30' 0" | 34°40' 0" | Aiguille moyenne où les observations ont été faites. | | | |
| Dp. | Octobre 13, de 7 ^h 30' à 10 matin. | 27 | 40 | 35 | 45 | 40 | 47 | 35 | 45 | Points où l'aig. est perpend... | | Face au N. \| Face au S. | |
| | | 30 | 30 | 30 | 45 | 30 | 45 | 40 | 55 | | | 146° 40' \| 326° 55' | |
| | | 30 | 30 | 37 | 55 | 40 | 45 | 50 | 45 | Mérid. { Face à l'O. = $\frac{146^{\circ}40' + 326^{\circ}55'}{2} = 236^{\circ}47'30'$ | | | |
| | | 30 | 30 | 50 | 45 | 40 | 47 | 30 | 45 | magn. { Face à l'E. = $236^{\circ}47'30' - 180^{\circ} = 56^{\circ}47'30'$ | | | |
| | | 32 | 30 | 45 | 55 | 40 | 55 | 45 | 50 | | | | |
| | | 20 | 30 | 45 | 52 | 45 | 50 | 55 | 55 | | | | |
| | | 30 | 30 | 45 | 50 | 30 | 47 | 35 | 45 | | | | |
| | | 30 | 30 | 45 | 55 | 45 | 45 | 42 | 45 | | | | |
| | | 30 | 30 | 25 | 30 | 35 | 45 | 35 | 45 | | | | |
| | | 35 | 30 | 25 | 30 | 40 | 47 | 45 | 55 | | | | |
| | | 30 | 30 | 30 | 32 | 30 | 40 | 40 | 52 | | | | |
| | | 30 | 30 | 30 | 35 | 40 | 50 | 45 | 52 | | | | |
| | | 30 | 30 | 25 | 27 | 32 | 42 | 45 | 52 | | | | |
| | | 30 | 30 | 22 | 22 | 22 | 42 | 30 | 37 | | | | |
| | | 22 | 30 | 12 | 27 | 22 | 45 | 32 | 42 | | | | |
| | | 25 | 35 | 7 | 22 | 22 | 45 | 37 | 47 | | | | |
| | | 30 | 40 | 5 | 22 | 15 | 45 | 47 | 52 | | | | |
| | | 22 | 32 | 22 | 35 | 22 | 45 | 35 | 50 | | | | |
| | | 27 | 35 | 15 | 32 | 12 | 32 | 45 | 52 | | | | |
| | | 27 | 40 | 12 | 25 | 12 | 42 | 45 | 55 | | | | |
| | | 30 | 27 | 10 | 27 | 12 | 40 | 42 | 50 | | | | |
| Moyennes..... | | 31 28 18 | 31 32 0 | 30 27 30 | 30 37 0 | ..... | ..... | ..... | ..... |  |  |  |  |
|  |  | ..... | ..... | 34 30 30 | 34 45 0 | 34 40 12 | 34 48 30 | ..... | ..... | Avant pôles changés = 31° 1'12" { 32°51'0" Inclin. définitive. | | | |
| | | | | | | | | | | Après pôles changés = 34 40 48 | | | |
| COUPANG (ILE TIMOR). — AIGUILLE N° 0. | | | | | | | | | | | | | |
| Frey. | 1818. | 31°25' 0" | 31°40' 0" | 30°22' 0" | 30°45' 0" | 34°45' 0" | 34°50' 0" | 34°30' 0" | 34°40' 0" | Aiguille moyenne où les observations ont été faites. | | | |
| Dp. | Octobre 13, de 7 ^h 30' à 10 matin. | 27 | 40 | 35 | 45 | 40 | 47 | 35 | 45 | Points où l'aig. est perpend... | | Face au N. \| Face au S. | |
| | | 30 | 30 | 30 | 45 | 30 | 45 | 40 | 55 | | | 146° 40' \| 326° 55' | |
| | | 30 | 30 | 37 | 55 | 40 | 45 | 50 | 45 | Mérid. { Face à l'O. = $\frac{146^{\circ}40' + 326^{\circ}55'}{2} = 236^{\circ}47'30'$ | | | |
| | | 30 | 30 | 50 | 45 | 40 | 47 | 35 | 45 | magn. { Face à l'E. = $236^{\circ}47'30' - 180^{\circ} = 56^{\circ}47'30'$ | | | |
| | | 32 | 30 | 45 | 55 | 40 | 55 | 45 | 50 | | | | |
| | | 20 | 30 | 45 | 52 | 45 | 50 | 55 | 55 | | | | |
| | | 30 | 30 | 45 | 50 | 30 | 47 | 35 | 45 | | | | |
| | | 30 | 30 | 45 | 55 | 45 | 45 | 42 | 45 | | | | |
| | | 30 | 30 | 25 | 27 | 32 | 42 | 45 | 52 | | | | |
| | | 30 | 30 | 22 | 22 | 22 | 42 | 30 | 37 | | | | |
| | | 22 | 30 | 12 | 27 | 22 | 45 | 32 | 42 | | | | |
| | | 25 | 35 | 7 | 22 | 22 | 45 | 37 | 47 | | | | |
| | | 30 | 40 | 5 | 22 | 15 | 45 | 47 | 52 | | | | |
| | | 22 | 32 | 22 | 35 | 22 | 45 | 35 | 50 | | | | |
| | | 27 | 35 | 15 | 32 | 12 | 32 | 45 | 52 | | | | |
| | | 27 | 40 | 12 | 25 | 12 | 42 | 45 | 55 | | | | |
| | | 30 | 27 | 10 | 27 | 12 | 40 | 42 | 50 | | | | |
| Moyennes..... | | 31 28 18 | 31 32 0 | 30 27 30 | 30 37 0 | ..... | ..... | ..... | ..... |  |  |  |  |
|  |  | ..... | ..... | 34 30 30 | 34 45 0 | 34 40 12 | 34 48 30 | ..... | ..... | Avant pôles changés = 31° 1'12" { 32°51'0" Inclin. définitive. | | | |
| | | | | | | | | | | Après pôles changés = 34 40 48 | | | |
| AIGUILLE N° 3. | | | | | | | | | | | | | |
| Frey. | 13, de 1 ^h 45' matin à 2 ^h soir. | 33°45' 0" | 33°57' 0" | 33°50' 0" | 33° 0' 0" | 32°20' 0" | 32°42' 0" | 32°30' 0" | 32°32' 0" | Aiguille moyenne où les observations ont été faites. | | | |
| Dp. | | 45 | 0 | 55 | 57 | 20 | 40 | 29 | 27 | Points où l'aig. est perpend... | | Face au N. \| Face au S. | |
| | | 35 | 55 | 55 | 55 | 22 | 45 | 30 | 37 | | | 146° 58' \| 326° 42' | |
| | | 30 | 0 | 50 | 0 | 10 | 40 | 25 | 30 | Mérid. { Face à l'O. = $\frac{146^{\circ}55' + 326^{\circ}42'}{2} = 236^{\circ}48'30'$ | | | |
| | | 45 | 55 | 50 | 57 | 10 | 35 | 30 | 32 | magn. { Face à l'E. = $236^{\circ}48'30' - 180^{\circ} = 56^{\circ}48'30'$ | | | |
| | | 30 | 5 | 55 | 55 | 15 | 45 | 30 | 30 | | | | |
| | | 40 | 0 | 50 | 52 | 20 | 45 | 30 | 30 | | | | |
| | | 45 | 0 | 0 | 0 | 15 | 47 | 22 | 32 | | | | |
| | | 30 | 50 | 0 | 0 | 25 | 47 | 30 | 30 | | | | |
| | | 35 | 50 | 0 | 0 | 20 | 30 | 25 | 30 | | | | |
| | | 35 | 0 | 50 | 0 | 5 | 37 | 20 | 40 | | | | |
| | | 35 | 0 | 0 | 55 | 27 | 45 | 30 | 30 | | | | |
| | | 40 | 0 | 0 | 52 | 20 | 50 | 20 | 30 | | | | |
| | | 40 | 0 | 55 | 55 | 17 | 35 | 20 | 30 | | | | |
| | | 32 | 0 | 55 | 55 | 15 | 32 | 30 | 30 | | | | |
| | | 30 | 52 | 55 | 57 | 10 | 30 | 50 | 10 | | | | |
| | | 30 | 15 | 50 | 0 | 0 | 20 | 10 | 22 | | | | |
| | | 30 | 52 | 0 | 7 | 2 | 15 | 22 | 35 | | | | |
| | | 25 | 57 | 0 | 2 | 0 | 17 | 2 | 10 | | | | |
| | | 32 | 0 | 52 | 0 | 55 | 12 | 55 | 5 | | | | |
| | | 30 | 55 | 55 | 57 | 55 | 7 | 7 | 15 | | | | |
| | | 27 | 55 | 52 | 2 | 52 | 10 | 0 | 17 | | | | |
| | | 30 | 52 | 55 | 0 | 0 | 15 | 10 | 25 | | | | |
| | | 22 | 52 | 52 | 57 | 5 | 17 | 57 | 5 | | | | |
| | | 27 | 57 | 55 | 2 | 5 | 17 | 12 | 20 | | | | |
| | | 25 | 47 | 50 | 2 | 50 | 7 | 2 | 5 | | | | |
| | | 25 | 52 | 52 | 55 | 57 | 17 | 57 | 12 | | | | |
| | | 27 | 55 | 52 | 0 | 2 | 17 | 12 | 17 | | | | |
| | | 25 | 42 | 0 | 2 | 0 | 17 | 7 | 7 | | | | |
| | | 25 | 42 | 52 | 57 | 57 | 7 | 57 | 9 | | | | |
| Moyennes..... | | 33 32 24 | 33 53 12 | 32 54 48 | 32 58 18 | | 32 8 0 | 32 28 0 | 32 15 6 | 32 22 48 | Avant pôles changés = 33°10'36" { 32°49'0" Inclin. définitive. | | |
| | | | | 32 8 0 | 32 28 0 | 32 15 6 | 32 22 48 | | | Après pôles changés = 32 18 30 | | | |

CHAP. III. — INCLINAISON DE L'AIGUILLE AIMANTÉE.

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VOYAGE AUTOUR DU MONDE.

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. | | | | | | | | REMARQUES. | |
|--|------------------|------------|--|------------|-------------|------------|---------------------------------|------------|-------------|-------|------------|-------|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| RAWAK, ILES DES PAPOUS. | | | | | | | | | | | | |
| 1818. Octobre 28. (Suite.) | 14° 0' 0" | 14° 15' 0" | 13° 57' 0" | 14° 15' 0" | 14° 30' 0" | 14° 10' 0" | 14° 0' 0" | 14° 15' 0" | | | | |
| | 0 | 22 | 14 0 | 20 | 30 | 15 | 20 | 45 | | | | |
| | 0 | 7 | 0 | 22 | 30 | 30 | 22 | 45 | | | | |
| | 0 | 22 | 10 | 35 | 22 | 37 | 15 | 30 | | | | |
| | 0 | 30 | 15 | 35 | 27 | 35 | 10 | 30 | | | | |
| R. | 0 | 25 | 13 55 | 15 | 25 | 40 | 7 | 15 | | | | |
| | | | | | | | | | | | | |
| | 14 5 0 | 14 22 0 | 14 0 0 | 14 15 0 | 14 32 0 | 14 50 0 | 14 30 0 | 14 55 0 | | | | |
| | 0 | 15 | 0 | 15 | 35 | 50 | 42 | 52 | | | | |
| | 15 | 30 | 0 | 15 | 30 | 50 | 37 | 45 | | | | |
| | 0 | 8 | 13 52 | 15 | 32 | 52 | 35 | 57 | | | | |
| | 0 | 23 | 14 0 | 15 | 35 | 52 | 40 | 52 | | | | |
| | 0 | 13 | 0 | 17 | 30 | 50 | 40 | 52 | | | | |
| | 7 | 15 | 0 | 17 | 32 | 45 | 35 | 57 | | | | |
| | 8 | 15 | 0 | 7 | 35 | 45 | 40 | 52 | | | | |
| | 0 | 22 | 0 | 7 | 35 | 52 | 37 | 52 | | | | |
| | 7 | 23 | 0 | 20 | 37 | 45 | 32 | 35 | | | | |
| | 15 | 20 | 15 | 37 | 20 | 37 | 27 | 27 | | | | |
| | 15 | 30 | 0 | 23 | 27 | 35 | 22 | 42 | | | | |
| | 15 | 30 | 10 | 25 | 22 | 37 | 25 | 32 | | | | |
| | 15 | 30 | 7 | 20 | 20 | 35 | 20 | 35 | | | | |
| | 15 | 30 | 15 | 37 | 15 | 37 | 22 | 45 | | | | |
| | 23 | 20 | 7 | 22 | 25 | 30 | 27 | 27 | | | | |
| | 8 | 22 | 7 | 15 | 25 | 40 | 22 | 37 | | | | |
| | 15 | 23 | 7 | 25 | 25 | 40 | 17 | 37 | | | | |
| | 15 | 27 | 0 | 30 | 25 | 22 | 15 | 32 | | | | |
| | 17 | 30 | 10 | 30 | 25 | 37 | 25 | 25 | | | | |
| Moyennes... | Lm. | 14 5 30 | 14 27 27 | 14 7 12 | 14 25 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
|  |  | ..... | ..... | ..... | ..... | 14 24 36 | 14 34 24 | 14 19 33 | 13 32 12 | | | |
| Frey. | R... | 14 9 45 | 14 22 24 | 14 3 30 | 14 20 21 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
|  |  | ..... | ..... | ..... | ..... | 14 27 51 | 14 41 57 | 14 29 30 | 14 43 24 | | | |
| 1818. Octobre 28, de 11 ^h matin à 5 ^h 8' soir. | 14 0 0 | 14 15 0 | 14 0 0 | 14 22 0 | 14 30 0 | 14 45 0 | 13 32 0 | 14 55 0 | | | | |
| | 13 58 | 15 | 13 57 | 22 | 22 | 52 | 35 | 57 | | | | |
| | 14 0 | 20 | 57 | 17 | 25 | 50 | 32 | 57 | | | | |
| | 13 58 | 17 | 57 | 18 | 17 | 50 | 37 | 47 | | | | |
| | 14 0 | 20 | 14 5 | 15 | 17 | 47 | 32 | 52 | | | | |
| | 0 | 15 | 13 57 | 17 | 25 | 45 | 30 | 52 | | | | |
| | 13 58 | 17 | 58 | 18 | 25 | 45 | 32 | 55 | | | | |
| | 14 0 | 17 | 14 5 | 25 | 25 | 45 | 30 | 57 | | | | |
| | 0 | 20 | 13 58 | 15 | 27 | 45 | 32 | 52 | | | | |
| | 0 | 20 | 14 0 | 22 | 22 | 45 | 32 | 57 | | | | |
| | 15 | 32 | 13 42 | 15 | 17 | 32 | 23 | 42 | | | | |
| | 27 | 35 | 40 | 0 | 12 | 30 | 20 | 42 | | | | |
| | 17 | 32 | 50 | 12 | 12 | 32 | 22 | 37 | | | | |
| | 20 | 35 | 52 | 0 | 12 | 32 | 17 | 37 | | | | |
| | 15 | 42 | 42 | 10 | 12 | 30 | 17 | 45 | | | | |
| | 13 | 30 | 50 | 15 | 10 | 35 | 22 | 42 | | | | |
| | 17 | 37 | 45 | 14 | 12 | 32 | 20 | 42 | | | | |
| | 10 | 38 | 40 | 12 | 12 | 32 | 20 | 42 | | | | |
| | 15 | 30 | 47 | 12 | 12 | 32 | 22 | 42 | | | | |
| | 15 | 37 | 45 | 5 | 10 | 30 | 20 | 42 | | | | |
| Moyennes.... | 14 7 54 | 14 26 12 | 13 52 21 | 14 14 18 | ..... | 14 17 48 | 14 39 18 | 14 26 21 | 14 47 52 | | | |
| | | | | | | | | | | | | |

Avant pôles changés = 14° 16' 20" { 14° 22' 1" incl. défaut.
Après pôles changés = 14 27 41 }

Avant pôles changés = 14° 16' 0" { 14 25 50 incl. défaut.
Après pôles changés = 14 35 40 }

Nota. Cette observation a été faite immédiatement à la suite des deux précédentes et dans les mêmes animaux.

Des résultats moyens et définitifs d'inclinaison ci-dessous, on a conclu :

$$z'' = 90^\circ - 14^\circ 13' 33'' = 75^\circ 46' 27''$$

$$z' = 90^\circ - 14^\circ 31' 43'' = 75^\circ 28' 17''$$

$$z'' - z' = 18' 10'' = 1000''$$

$$z = \frac{z'' + z'}{2} = 75^\circ 37' 22''$$

$$z'' = \frac{z'' - z'}{\sin z} = \frac{1000''}{\sin 75^\circ 37' 22''} = 1125'',24$$

Pour l'application de cette valeur de (z''), voyez les observations faites à Dillé, le 19 novembre 1815.

Avant pôles changés = 14° 10' 11" { 14° 21' 29" incl. défaut.
Après pôles changés = 14 32 47 }

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLES N° 0 ET 3. | | | | | | | | | |
|--|--|--|---------------------------------|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | |
| RAWAK, ILES DES PAPOUS. — AIGUILLE N° 0. | | | | | | | | | | | |
| Frey. | 1818. Décem. 29, de 11 ^h matin à 1 ^h soir. | N. alternativement attiré et repoussé. | 16°17' 0" | 16°45' 0" | 16°12' 0" | 16°27' 0" | 12°42' 0" | 12°57' 0" | 12°32' 0" | 13° 0' 0" | Azimuts moyens où les observations ont été faites. |
| | | | 20 | 42 | 12 | 27 | 37 | 13 0 | 35 | 7 | |
| | | | 17 | 50 | 7 | 27 | 42 | 0 | 32 | 0 | |
| | | | 20 | 40 | 10 | 30 | 40 | 12 57 | 32 | 5 | |
| | | | 20 | 47 | 7 | 30 | 40 | 13 0 | 32 | 5 | |
| | | | 10 | 22 | 15 52 | 15 | 30 | 12 52 | 17 | 12 45 | |
| | | | 7 | 27 | 52 | 15 | 27 | 52 | 17 | 47 | |
| | | | 12 | 22 | 52 | 13 | 32 | 57 | 15 | 42 | |
| | | | 7 | 35 | 52 | 13 | 37 | 57 | 13 | 42 | |
| | | | 12 | 27 | 55 | 15 | 40 | 57 | 15 | 45 | |
| G. | | | 16 30 0 | 16 40 0 | 16 12 0 | 16 25 0 | 12 45 0 | 13 0 0 | 12 30 0 | 12 50 0 | |
| | | | 22 | 40 | 10 | 25 | 50 | 10 | 30 | 47 | |
| | | | 22 | 37 | 5 | 22 | 50 | 0 | 32 | 42 | |
| | | | 30 | 40 | 15 | 20 | 55 | 2 | 30 | 45 | |
| | | | 30 | 40 | 10 | 25 | 47 | 0 | 30 | 40 | |
| | | | 22 | 27 | 15 55 | 22 | 42 | 12 50 | 15 | 32 | |
| | | | 15 | 25 | 55 | 12 | 37 | 47 | 17 | 40 | |
| | | | 15 | 22 | 52 | 7 | 35 | 55 | 20 | 40 | |
| | | | 12 | 30 | 52 | 17 | 37 | 13 0 | 17 | 32 | |
| | | | 15 | 30 | 55 | 12 | 37 | 12 57 | 12 17 | 12 32 | |
| Moyennes...{ | Frey. | 16 14 0 | 16 35 42 | 16 1 6 | 16 21 12 | ..... | ..... | ..... | ..... | ..... | Avant pôles changés 10°18' 0" ; 14°30'25" |
| | G ... | 16 21 18 | 16 33 6 | 16 2 6 | 16 18 12 | ..... | ..... | 12 36 42 | 12 56 54 | 12 24 0 | Après pôles changés 12 42 51 } 14°30'14" ,5 |
| R. | | N. alternativement attiré et repoussé. | 13°27' 0" | 13°47' 0" | 13°55' 0" | 13°75' 0" | 15° 5' 0" | 15° 7' 0" | 15°42' 0" | 15°55' 0" | Inclinaison définitive. |
| | | | 30 | 40 | 50 | 14 0 | 5 | 7 | 45 | 16 2 | |
| | | | 27 | 47 | 50 | 0 | 0 | 5 | 42 | 0 | |
| | | | 32 | 45 | 50 | 2 | 5 | 7 | 42 | 15 57 | |
| | | | 25 | 45 | 50 | 2 | 2 | 0 | 45 | 52 | |
| | | | 5 | 20 | 30 | 13 37 | 14 45 | 14 54 | 30 | 40 | |
| | | | 5 | 20 | 30 | 37 | 45 | 47 | 30 | 42 | |
| | | | 5 | 22 | 27 | 37 | 45 | 52 | 32 | 47 | |
| | | | 7 | 27 | 30 | 37 | 45 | 45 | 27 | 37 | |
| | | | 7 | 20 | 30 | 35 | 42 | 52 | 27 | 50 | |
| Moyennes...{ | G ... | 13 17 0 | 13 33 18 | 13 40 12 | 13 48 24 | ..... | ..... | 15 45 0 | 16 2 0 | ..... | Avant pôles changés 13°34'43" ; 14°2' 6" |
| | R ... | 13 23 6 | 13 38 42 | 13 43 18 | 13 49 36 | ..... | ..... | 14 53 54 | 14 57 36 | 15 36 12 | Après pôles changés 15 19 28 } 14°28'43" |
| | | | | | | | | | | | Inclinaison définitive. |

INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5.

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | REMARQUES. | |
|----------------------------------|---|--|--|--|---|---|---|--|---|--|---|---|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| TRAVERSÉE DE RAWAK A L'ILE GUAM. | | | | | | | | | | | | |
| Frey. Lm. | 1819. Janvier 27, de 11 ^h à 1 ^h soir. | N. alternativement attiré et repoussé. | 10° 6' 0" 10° 0' 0" 9° 0' 0" 8°30' 0" 6°45' 0" 6° 8' 0" 6°45' 0" 6°30' 0" | 10 0 10 0 10 0 9 53 9 45 10 0 10 0 10 0 10 30 10 15 | 10 9 9 45 10 0 9 8 8 45 9 40 8 30 9 22 9 15 8 45 9 25 | 9 15 8 30 8 45 8 57 8 45 6 15 6 15 6 30 6 0 6 0 | 8 30 9 8 8 45 8 57 8 45 6 15 6 45 7 0 6 30 6 45 5 15 | 6 15 6 30 6 0 6 22 6 22 6 45 6 45 7 0 6 30 6 45 6 15 | 6 22 6 27 6 22 6 22 6 45 6 8 6 0 5 45 5 37 5 38 5 30 | 5 52 6 15 5 45 6 25 6 25 6 0 6 0 5 30 5 37 5 38 5 30 | N. B. Avant de faire cette observation on s'est aperçu que la chape de l'aiguille avait quitté ses repères; on l'a remise en place, et l'on a commencé les expériences. Les axes sont parfaitement nets, mais le frottement sur les agates est extrêmement fort. Cap du navire..... E. 22° N. Points parallèles à la quille. | |
| Moyennes | 10 2 18 | 9 48 18 | 8 59 48 | 8 51 30 | ..... | ..... | ..... | ..... | ..... | ..... | Division de gauche. | Division de droite. |
| | | | | | 6 17 12 | 6 22 6 | 6 33 48 | 5 53 42 | | | 93°20'+22°30'=115°50' | 115°50'-180°=75°10' |
| B. | 1819. Mars 14, de 1 ^h 30' à 4 ^h 30' matin. | Pointe S. repoussée. P ^u arcs les 1 ^{er} , [G ^u arcs les 1 ^{er} . | 8 15 0 7 45 30 7 30 6 45 8 0 7 30 7 45 8 30 8 30 30 | 7 30 0 30 30 7 45 15 45 15 8 0 45 7 30 45 | 8 30 0 7 30 7 45 15 8 0 45 7 30 45 7 30 15 | 8 0 0 7 30 5 45 30 6 0 30 6 15 0 0 0 5 22 0 30 0 15 0 15 0 | 6 30 0 5 45 30 6 0 30 6 15 0 6 15 0 5 22 0 5 15 0 5 15 0 5 15 0 5 15 0 | 6 0 0 0 0 0 0 0 0 0 0 6 0 0 6 0 0 6 0 0 6 0 0 6 0 0 | 6 0 0 0 0 0 0 0 0 0 0 6 15 0 6 15 0 6 15 0 6 15 0 6 15 0 | 6 15 0 0 0 0 0 0 0 0 0 5 45 0 5 45 0 5 45 0 5 45 0 5 45 0 | Mérid. { Face à l'O. 115° 50' — 90° = 25° 50' magn. { Face à l'E. 180° — 25° 50' = 154° 10'. Ici les vents ayant varié on a gouverné au N. 56° E.; on a donc eu face à l'O. 127° 5', et face à l'E. — 52° 55'. Avant pôles changés = 9°25'30'; 7°46'6" Inclin. définitive. Après pôles changés = 6 6 42 | La pointe élevée de l'aiguille est maintenant la pointe S., ce qui montre que déjà nous avons dépassé l'équateur magnétique, que nous ne nous attendions pas à rencontrer sitôt. On a oublié ici de transcrire les animuts où les observations ont été faites; mais ils ont été déterminés comme précédemment. Les grands arcs ont d'abord été lus, puis ce sont les petits arcs. |
| Frey. | Pointe S. repoussée. Petits arcs. \| Grands arcs. | Pointe S. attirée. Petits arcs. \| Grands arcs. | 8 30 0 8 0 45 8 45 0 7 22 15 7 8 7 45 8 45 8 0 | 8 30 0 7 0 6 30 0 30 45 7 0 8 0 8 0 7 30 0 | 8 15 0 8 15 0 8 0 0 8 0 0 8 0 0 7 30 0 | 8 0 0 6 30 5 45 30 6 45 30 6 15 30 5 37 30 22 30 | 6 30 0 5 45 0 6 45 5 45 7 0 6 15 6 15 6 15 6 0 5 45 22 5 30 | 6 0 0 0 7 0 6 0 6 15 0 6 15 22 6 0 6 0 5 45 22 5 30 | 6 30 0 7 0 15 6 0 15 0 52 22 6 0 6 0 5 45 22 5 30 | 6 15 0 15 15 5 30 15 15 15 6 0 30 6 0 30 6 0 30 | | |
| | 7 12 0 0 30 8 12 7 37 7 45 30 8 0 22 15 | 8 15 0 8 30 15 7 30 7 45 22 10 45 45 8 30 8 30 | 8 30 0 8 15 37 7 45 22 6 0 30 5 0 45 7 40 8 30 | 8 15 0 8 15 37 7 45 22 6 0 30 5 0 45 7 40 8 30 | 8 15 0 8 15 37 7 45 22 6 0 30 5 0 45 7 40 8 30 | 6 0 0 5 15 0 6 0 0 30 0 4 52 0 4 45 0 | 6 0 0 5 15 0 6 0 0 6 30 0 4 52 0 4 45 0 | 6 30 0 5 45 0 6 30 0 6 30 0 0 30 0 30 | 6 0 0 5 45 0 45 45 30 30 30 30 4 30 0 | | | |
| | 9 0 9 0 8 0 8 0 8 30 8 10 8 0 7 37 7 52 40 52 20 | 7 22 9 0 22 8 15 8 10 0 10 8 52 22 0 30 7 40 | 9 0 8 37 9 0 22 0 7 22 37 8 52 0 52 30 7 445 | 9 0 8 37 9 0 22 0 7 22 37 8 52 0 52 30 7 445 | 5 30 5 15 7 4 52 15 6 0 4 45 5 30 45 0 45 45 | 5 15 5 15 7 4 52 15 6 0 4 45 5 30 45 0 45 45 | 5 15 5 15 7 4 52 15 6 0 4 45 5 30 45 0 45 45 | 5 30 5 30 15 15 30 30 0 0 40 40 0 0 | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLES N° 5 ET 2. | | | | | | | | REMARQUES. | | | |
|--|---|--|---------------------------------|----------|-------------|----------|---------------------------------|----------|-------------|------------|--|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHARGÉS PAR 40 FRICTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| TRAVERSÉE DE RAWAK A L'ILE GUAM. — AIGUILLE N° 5. | | | | | | | | | | | | | |
| Suite. | | Pointe S. attirée. Petits arcs. | 7°30' 0" | 7° 0' 0" | 8°30' 0" | 7°15' 0" | 5°50' 0" | 5°30' 0" | 6° 0' 0" | 8°30' 0" | | | |
| | | | 8 45 | 0 | 37 | 30 | 6 0 | 37 | 0 | 5 45 | | | |
| | | Grands arcs. | 15 | 45 | 0 | 8 30 | 5 7 | 45 | 0 | 6 22 | | | |
| | | | 22 | 8 15 | 9 0 | 45 | 6 15 | 0 | 5 30 | 15 | | | |
| | | B.... | 7 30 | 7 35 | 8 15 | 52 | 20 | 5 30 | 6 0 | 5 30 | | | |
| | | | 45 | 45 | 9 7 | 9 15 | 5 52 | 6 0 | 5 15 | 45 | | | |
| | | Frey. | 6 37 | 7 0 | 9 0 | 8 15 | 5 45 | 5 45 | 5 45 | 5 45 | | | |
| | | | 7 8 | 8 0 | 8 7 | 37 | 30 | 37 | 6 0 | 45 | | | |
| | | Moyennes . . | 7 45 | 7 30 | 0 | 30 | 37 | 4 30 | 7 | 30 | | | |
| | | | 7 30 | 37 | 15 | 7 52 | 30 | 5 30 | 5 45 | 0 | | | |
| | | Frey. | 8 | 6 32 | 37 | 8 30 | 37 | 15 | 0 | 15 | | | |
| | | | 8 | 7 45 | 9 0 | 9 0 | 15 | 45 | 37 | 45 | | | |
| UMATA, ILE GUAM (ARCHIPEL DES MARIANNES). — AIGUILLE N° 2. | | | | | | | | | | | | | |
| Frey. | 1819. | Grands arcs S. alternativement attirés et repoussés. | 12 55 | 0 | 13 15 | 0 | 13 27 | 0 | 13 50 | 0 | Animats moyens où les observations ont été faites. | | |
| | Mars, 25, de l' ^h à 5 ^h 30' soir. | | 13 5 | 25 | 25 | 57 | 25 | 35 | 0 | 10 | | | |
| | | Petits arcs S. alternativement attirés et repoussés. | 7 | 15 | 27 | 57 | 17 | 37 | 13 45 | 7 | | | |
| | | | 12 55 | 0 | 25 | 55 | 15 | 52 | 52 | 12 | | | |
| | | B.... | 40 | 12 57 | 30 | 50 | 35 | 25 | 55 | 20 | | | |
| | | | 37 | 52 | 35 | 14 7 | 27 | 45 | 52 | 12 | | | |
| | | Moyennes . . | 13 0 | 13 15 | 30 | 13 52 | 22 | 42 | 52 | 7 | | | |
| | | | 7 | 30 | 37 | 50 | 32 | 47 | 14 0 | 15 | | | |
| | | Frey. | 0 | 7 | 45 | 14 10 | 35 | 45 | 13 55 | 20 | | | |
| | | | 12 35 | 12 57 | 30 | 13 55 | 27 | 55 | 14 0 | 20 | | | |
| | | Frey. | 52 | 13 10 | 25 | 53 | 27 | 52 | 2 | 12 | | | |
| | | | 13 0 | 27 | 30 | 40 | 37 | 42 | 0 | 15 | | | |
| | | Moyennes . . | 10 | 25 | 30 | 55 | 32 | 55 | 13 47 | 10 | | | |
| | | | 7 | 25 | 20 | 55 | 33 | 45 | 52 | 12 | | | |
| | | Frey. | 12 52 | 12 52 | 25 | 52 | 27 | 37 | 55 | 15 | | | |
| | | | 35 | 52 | 40 | 14 7 | 37 | 45 | 14 0 | 15 | | | |
| | | Frey. | 12 30 | 0 | 12 55 | 0 | 13 2 | 0 | 13 22 | 0 | Points où l'aig. est perpend.. | | |
| | | | 37 | 13 0 | 3 | 25 | 0 | 25 | 52 | 20 | | | |
| | | B.... | 45 | 7 | 12 | 7 | 12 58 | 25 | 52 | 22 | | | |
| | | | 47 | 12 | 30 | 25 | 55 | 22 | 55 | 17 | | | |
| | | Moyennes . . | 30 | 12 55 | 0 | 22 | 13 0 | 27 | 14 5 | 15 | | | |
| | | | 32 | 13 5 | 10 | 7 | 12 55 | 25 | 13 45 | 17 | | | |
| | | Frey. | 47 | 10 | 15 | 20 | 13 0 | 20 | 50 | 17 | | | |
| | | | 55 | 15 | 2 | 17 | 12 57 | 22 | 50 | 15 | | | |
| | | Frey. | 47 | 0 | 10 | 37 | 55 | 20 | 57 | 24 | | | |
| | | | 30 | 12 55 | 7 | 50 | 58 | 22 | 37 | 12 | | | |
| | | Moyennes . . | 35 | 55 | 17 | 27 | 13 0 | 22 | 50 | 7 | | | |
| | | | 45 | 13 15 | 2 | 40 | 0 | 22 | 57 | 17 | | | |
| | | Frey. | 47 | 12 | 10 | 30 | 12 55 | 20 | 14 2 | 25 | | | |
| | | | 50 | 17 | 15 | 35 | 55 | 15 | 13 40 | 0 | | | |
| | | Frey. | 35 | 13 50 | 3 | 30 | 13 0 | 25 | 45 | 13 32 | | | |
| | | | 30 | 5 | 55 | 40 | 0 | 27 | 47 | 14 0 | | | |
| | | Moyennes . . | 12 47 28 | 13 9 8 | 13 21 4 | 13 41 4 | ..... | ..... | ..... | ..... | Avant pôles changés 13°14'41" | | |
|  |  |  | ..... | ..... | ..... | ..... | 13 13 0 | 13 33 17 | 13 52 54 | 14 12 47 | Après pôles changés 13°47'59" | | |
| | | Frey. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 13°31' 20" Inclina. début. | | |
| | | | | | | | | | | | | | |

CHAP. III. — INCLINAISON DE L'AIGUILLE AIMANTÉE.

57

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 0. | | | | | | | | | | REMARQUES. | |
|---|---|---|--|---|--|--|---|--|--|---|-------------------|---|--|
| | | AVANT D'AVOIR CHARGÉ LES PÔLES. | | | | PÔLES CHARGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| UMATA, ILE GUAM (ARCHIPEL DES MARIANNES). | | | | | | | | | | | | | |
| Lm. | 1819. Mars, 26, après midi. | 16°15' 0" 30 15 50 27 30 10 25 27 30 15 | 16°45' 0" 37 37 45 37 37 37 52 30 35 45 | 16°30' 0" 57 32 0 30 30 17 0 16 52 16 52 16 45 30 | 16°52' 0" 10 50 17 0 16 52 17 0 16 45 17 0 16 45 17 0 | 10°40' 0" 37 22 42 45 45 37 37 52 11 0 10 45 | 11° 7' 0" 0 10 45 11 7 0 0 7 11 7 0 10 50 | 10°30' 0" 15 52 45 27 22 22 25 37 11 0 15 | 10°45' 0" 45 11 0 11 7 5 5 5 55 52 22 10 30 15 | Animaux moyens où les observations ont été faites. | | | |
| P. | | 0 25 20 0 0 7 2 12 0 0 7 0 0 | 25 30 30 27 25 30 27 15 30 25 30 17 0 22 22 | 7 22 12 50 45 12 50 0 52 30 45 17 0 30 30 16 50 | 16 45 50 12 45 45 30 50 15 30 50 10 45 11 15 10 45 30 30 16 50 | 22 32 20 27 30 30 47 47 11 15 30 10 7 | 45 11 7 10 37 52 50 47 30 11 15 10 45 10 7 | 10 5 5 5 5 30 30 30 10 10 30 7 0 40 | 30 25 22 22 30 47 0 30 35 15 30 30 45 30 | Points où l'aig. est perpend.. | | | |
| Moyennes... | Lm. | 16 20 0 30 30 15 15 22 30 45 37 30 45 22 45 45 15 | 16 40 0 30 30 30 30 45 7 30 45 37 45 30 45 45 30 | 16 45 0 30 30 30 17 0 0 16 47 17 0 10 45 0 16 55 17 0 16 45 | 17 0 0 16 45 30 17 0 0 11 0 11 0 10 45 0 45 17 0 10 45 17 0 10 45 17 0 45 | 10 45 0 37 45 45 0 45 11 0 11 0 10 7 | 11 0 0 10 45 11 0 10 30 45 11 0 11 0 10 30 52 10 22 11 0 10 30 37 11 0 | 10 30 0 52 30 11 0 30 11 0 11 0 10 30 30 30 30 37 10 52 15 | 10 45 0 37 30 45 30 30 15 15 45 0 0 0 0 0 30 | Mérid. { Face à l'O. $\frac{148^\circ 25' + 327^\circ 34'}{2} = 237^\circ 59' 30'$ mag. { Face à l'E. $237^\circ 59' 30' - 180^\circ = 57^\circ 59' 30'$ | | | |
| | P. | 7 10 45 15 15 15 30 25 7 10 30 15 8 | 15 30 45 15 15 15 15 22 30 15 15 15 45 | 15 22 45 15 15 15 30 25 17 0 10 45 57 45 30 | 45 37 30 45 45 30 45 11 0 10 45 52 45 45 45 | 30 55 30 0 0 45 30 0 10 45 11 0 0 0 | 52 7 0 15 22 30 30 30 30 30 30 30 45 | Les observations ont été faites sur un banc en maçonnerie, placé sous la tonnelle, devant la maison du gouverneur. | | | | | |
| | Moyennes... | Lm. | 16 15 5 | 16 32 0 | 16 29 35 | 10 48 20 ..... | ..... | 10 34 35 | 10 53 25 | 10 19 7 | 10 36 27 | Avant pôles changés 16°31'18" / Après pôles changés 10 35 54 / 13°33'34" | |
| | | P. | 10 20 57 | 16 29 22 | 16 27 59 | 16 47 40 ..... | ..... | 10 43 2 | 10 51 55 | 10 28 0 | 10 34 37 | 13°34'30" Inclinaison définitive. Avant pôles changés 16 31 29 / 13 35 27 Après pôles changés 10 39 24 / | |

Avant pôles changés $11^{\circ}48'17''$ } $12^{\circ}49' 6''$ Inclin. définit.
 Après pôles changés $13^{\circ}49'54''$

VOYAGE AUTOUR DU MONDE.

| OBSERVATION. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. | | | | | | | | | | REMARQUES. | |
|---|--|--|---------------------------------|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|----------|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| AGAGNA, ILE GUAM (ARCHIPEL DES MARIANNES.). | | | | | | | | | | | | | |
| Frey. | 1819. Mai, 2, de 6 ^h 30' à 9 ^h 45' matin. | Grands arcs. | 12°10' 0" | 12°35' 0" | 12°27' 0" | 12°50' 0" | 12°45' 0" | 13°12' 0" | 12°30' 0" | 12°60' 0" | | Ambiens moyens où les observations ont été faites. | |
| | | N. repoussé. | 17 | 42 | 20 | 50 | 45 | 12 | 30 | 60 | | | |
| | | N. attiré. | 12 | 30 | 20 | 48 | 45 | 12 | 30 | 57 | | | |
| | | | 10 | 35 | 25 | 48 | 45 | 12 | 30 | 57 | | | |
| | | | 5 | 42 | 25 | 48 | 45 | 12 | 30 | 57 | | | |
| | | | 10 | 38 | 27 | 52 | 47 | 10 | 30 | 60 | | | |
| | | | 12 | 5 0 | 12 32 0 | 12 25 0 | 12 57 0 | 12 40 0 | 13 10 0 | 12 35 0 | 12 62 0 | | |
| | | | 8 | 37 | 20 | 55 | 42 | 10 | 30 | 62 | | | |
| | | | 8 | 30 | 18 | 50 | 40 | 12 | 30 | 60 | | | |
| | | | 8 | 32 | 18 | 55 | 40 | 5 | 30 | 62 | | | |
| Lm. | | Grands arcs. | 12 | 32 | 22 | 52 | 42 | 8 | 30 | 60 | | | |
| | | N. repoussé. | 12 | 40 | 25 | 57 | 40 | 12 | 32 | 62 | | | |
| | | N. attiré. | 11 47 0 | 12 12 0 | 12 10 0 | 12 37 0 | 12 25 0 | 12 55 0 | 12 10 0 | 12 47 0 | | | |
| | | | 47 | 8 | 12 | 40 | 25 | 55 | 8 | 45 | | | |
| | | | 50 | 23 | 7 | 35 | 25 | 55 | 8 | 47 | | | |
| | | | 50 | 23 | 7 | 32 | 30 | 57 | 10 | 47 | | | |
| | | | 57 | 25 | 17 | 32 | 30 | 55 | 12 | 47 | | | |
| | | | 52 | 25 | 12 | 40 | 27 | 55 | 10 | 45 | | | |
| | | | 11 50 0 | 12 18 0 | 12 15 0 | 12 42 0 | 12 22 0 | 12 50 0 | 12 5 0 | 12 37 0 | | | |
| | | | 50 | 12 | 10 | 42 | 12 | 50 | 12 | 40 | | | |
| Moyennes... | Frey. | Grands arcs. | 12 | 37 0 | 12 30 0 | 12 57 0 | 12 30 0 | 13 5 0 | 12 40 0 | 12 40 0 | | | |
| | | N. repoussé. | 8 | 22 | 15 | 52 | 35 | 0 | 45 | 50 | | | |
| | | N. attiré. | 20 | 20 | 22 | 50 | 40 | 5 | 30 | 50 | | | |
| | | | 20 | 40 | 22 | 60 | 35 | 5 | 20 | 45 | | | |
| | | | 15 | 45 | 30 | 60 | 35 | 0 | 20 | 45 | | | |
| | | | 20 | 45 | 30 | 60 | 35 | 5 | 15 | 40 | | | |
| | | | 12 | 30 0 | 12 35 0 | 12 60 0 | 12 45 0 | 13 25 0 | 12 25 0 | 12 40 0 | | | |
| | | | 8 | 35 | 40 | 55 | 45 | 20 | 20 | 45 | | | |
| | | | 10 | 35 | 40 | 60 | 45 | 15 | 15 | 45 | | | |
| | | | 10 | 35 | 40 | 60 | 45 | 15 | 20 | 40 | | | |
| | | | 15 | 40 | 35 | 60 | 40 | 10 | 20 | 40 | | | |
| | | | 15 | 40 | 40 | 60 | 40 | 0 | 20 | 45 | | | |
| Moyennes... | Lm. | Grands arcs. | 11 40 0 | 12 15 0 | 12 25 0 | 12 50 0 | 12 30 0 | 12 60 0 | 12 5 0 | 12 35 0 | | | |
| | | N. repoussé. | 45 | 15 | 20 | 55 | 30 | 60 | 5 | 40 | | | |
| | | N. attiré. | 40 | 15 | 25 | 55 | 30 | 60 | 0 | 45 | | | |
| | | | 50 | 10 | 25 | 55 | 30 | 55 | 15 | 50 | | | |
| | | | 52 | 15 | 20 | 55 | 30 | 60 | 10 | 35 | | | |
| | | | 60 (*) | 20 | 20 | 55 | 30 | 55 | 0 | 35 | | | |
| | | | 11 55 0 | 12 20 0 | 12 20 0 | 12 50 0 | 12 30 0 | 12 60 0 | 12 15 0 | 12 40 0 | | | |
| | | | 60 | 15 | 20 | 40 | 30 | 55 | 10 | 35 | | | |
| | | | 40 | 25 | 25 | 50 | 30 | 55 | 5 | 40 | | | |
| | | | 40 | 15 | 25 | 55 | 30 | 55 | 5 | 35 | | | |
| Moyennes... | Frey. | Grands arcs. | 45 | 25 | 27 | 50 | 35 | 57 | 5 | 35 | | | |
| | | N. repoussé. | 65 | 30 | 22 | 55 | 35 | 55 | 5 | 35 | | | |
| | | N. attiré. | 11 59 50 | 12 26 42 | 12 17 0 | 12 45 40 | ..... | 12 32 40 | 13 1 52 | 12 20 30 | 12 50 45 | | |
| | | | | | | | | | | | | | |
| Moyennes... | Lm. | Grands arcs. | 12 1 5 | 12 26 50 | 12 27 12 | 12 54 57 | ..... | 12 35 0 | 13 3 0 | 12 15 0 | 12 41 2 | | |
| | | N. repoussé. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |

Avant pôles changés 12°22'18"
Après pôles changés 12°41'27" { 12°31'52"
Avant pôles changés 12°27'31" { 12°33'1" { Inclinaison
Après pôles changés 12°38'31" { 12°33'1" { définitive.

(*) On a écrit 11°60' au lieu de 12°0' pour la facilité du calcul.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 0. | | | | | | | | | | REMARQUES. | |
|---|--|--|----------|-------------|----------|---------------------------------|-----------|-------------|-----------|-----------|--|------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| AGAGNA, ILE GUAM (ARCHIPEL DES MARIANNES). | | | | | | | | | | | | | |
| Lm. | 1819. Mai, 2, de 10 ^h à 11 ^h matin, pour les deux premières colonnes. | Grands arcs. | 9°55' 0" | 10°15' 0" | 9°20' 0" | 9°50' 0" | 15°45' 0" | 16°10' 0" | 15°45' 0" | 16°20' 0" | N. B. Les axes de l'aiguille sont parfaitement nets. On a observé sur la pile de la terrasse et aux azimuths déterminés ce même jour pour l'aiguille n° 1. Beau temps, brise soufflant joli frais (le 5). | | |
| | | | 52 | 15 | 15 | 50 | 45 | 15 | 45 | 25 | | | |
| | | | 45 | 20 | 15 | 40 | 45 | 15 | 45 | 22 | | | |
| | | | 55 | 20 | 20 | 40 | 45 | 10 | 45 | 20 | | | |
| | | | 55 | 10 | 20 | 45 | 40 | 10 | 45 | 20 | | | |
| | | Petits arcs. | 50 | 20 | 15 | 45 | 45 | 10 | 45 | 25 | | | |
| | | | 50 | 15 | 30 | 0 | 45 | 0 | 50 | 15 | | | |
| | | | 50 | 10 | 35 | 0 | 45 | 5 | 45 | 15 | | | |
| | | | 45 | 10 | 30 | 55 | 40 | 5 | 50 | 15 | | | |
| | | | 50 | 10 | 30 | 55 | 45 | 5 | 45 | 10 | | | |
| | 5, de 6 ^h à 9 ^h matin, pour le reste de l'expé- rience. | Grands arcs. | 50 | 20 | 30 | 0 | 45 | 5 | 45 | 15 | | | |
| | | | 9 30 0 | 10 17 0 | 9 30 0 | 10 0 0 | 15 45 0 | 16 5 0 | 15 50 0 | 16 10 0 | | | |
| | | | 50 | 15 | 30 | 0 | 45 | 0 | 50 | 15 | | | |
| | | | 50 | 10 | 35 | 0 | 45 | 5 | 45 | 15 | | | |
| | | | 45 | 10 | 30 | 55 | 40 | 5 | 50 | 15 | | | |
| | | Petits arcs. | 50 | 10 | 30 | 55 | 45 | 5 | 45 | 10 | | | |
| | | | 50 | 10 | 30 | 55 | 45 | 5 | 45 | 10 | | | |
| | | | 35 | 0 | 15 | 35 | 30 | 45 | 45 | 10 | | | |
| | | | 35 | 0 | 15 | 35 | 30 | 45 | 45 | 10 | | | |
| | | | 35 | 5 | 15 | 35 | 30 | 45 | 45 | 10 | | | |
| Frey. | | Grands arcs. | 9 30 0 | 10 0 0 | 9 10 0 | 9 40 0 | 15 20 0 | 15 45 0 | 15 35 0 | 16 10 0 | (") Ce n'est point par inadvertance qu'on a écrit ici 9°60' au lieu de 10°; c'est pour rendre le calcul des moyennes plus facile. Une remarque analogue s'applique sur beaucoup d'autres points. | | |
| | | | 30 | 0 | 10 | 30 | 25 | 45 | 40 | 10 | | | |
| | | | 40 | 0 | 0 | 30 | 15 | 40 | 40 | 5 | | | |
| | | | 35 | 0 | 15 | 30 | 15 | 45 | 40 | 10 | | | |
| | | | 40 | 0 | 5 | 40 | 15 | 38 | 45 | 5 | | | |
| | | Petits arcs. | 35 | 0 | 8 | 35 | 27 | 40 | 45 | 7 | | | |
| | | | 40 | 0 | 8 | 35 | 27 | 40 | 45 | 7 | | | |
| | | | 45 | 0 | 10 | 35 | 27 | 40 | 45 | 7 | | | |
| | | | 45 | 0 | 12 | 38 | 42 | 55 | 45 | 12 | | | |
| | | | 47 | 17 | 22 | 42 | 42 | 55 | 45 | 15 | | | |
| Moyennes... | Lm. | Grands arcs. | 47 | 15 | 12 | 33 | 42 | 57 | 47 | 17 | | | |
| | | | 47 | 15 | 10 | 35 | 42 | 55 | 50 | 10 | | | |
| | | | 47 | 17 | 17 | 33 | 42 | 55 | 40 | 10 | | | |
| | | | 9 15 0 | 9 52 0 | 9 5 0 | 9 30 0 | 15 32 0 | 15 45 0 | 15 35 0 | 16 5 0 | | | |
| | | | 17 | 55 | 8 | 30 | 32 | 42 | 40 | 3 | | | |
| | | Petits arcs. | 15 | 57 | 8 | 27 | 32 | 47 | 40 | 5 | | | |
| | | | 20 | 55 | 10 | 30 | 37 | 47 | 37 | 7 | | | |
| | | | 17 | 60 (") | 10 | 32 | 35 | 47 | 35 | 10 | | | |
| | | | 17 | 52 | 8 | 32 | 35 | 45 | 40 | 12 | | | |
| | | | 25 | 62 | 18 | 45 | 35 | 40 | 30 | 57 | | | |
| Moyennes... | Frey. | Petits arcs. | 27 | 62 | 20 | 40 | 40 | 40 | 30 | 55 | | | |
| | | | 27 | 60 | 20 | 40 | 40 | 40 | 27 | 57 | | | |
| | | | 27 | 55 | 20 | 42 | 35 | 45 | 30 | 57 | | | |
| | | | 27 | 55 | 18 | 40 | 40 | 47 | 22 | 57 | | | |
| Moyennes... | Lm. | 9 42 35 | 10 8 25 | 9 17 8 | 9 43 7 | | 15 34 3 | 15 56 22 | 15 42 30 | 16 12 40 | Avant pôles changés. 9° 42' 49" | | |
| | Frey. | 9 33 17 | 10 6 17 | 9 16 35 | 9 39 53 | | 15 37 22 | 15 49 20 | 15 38 48 | 16 7 2 | Après pôles changés. 15 51 24 { 12° 47' 6" | | |
| Avant pôles changés. 9° 39' 1 { 12° 43' 35" Inclinaison définitive. | | | | | | | | | | | | | |
| Après pôles changés. 15 48 8 } 12° 45' 20" | | | | | | | | | | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATIONS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 4. | | | | | | | | | | | | REMARQUES. | |
|---------------|--|--|--|---|---|---|---|---|---|--|--|--|--|--|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | |
| Lm. | 1819. Mai, 6, de 8 ^h à 11 ^h 30' matin. | 15°20' 0" 22 35 27 20 20 | 15°65' (") 65 65 65 55 60 | 15°40' 0" 40 40 40 35 37 | 15°60' 0" 65 55 65 65 65 | 10°45' 0" 40 45 45 42 45 | 11°15' 0" 10 15 15 15 15 | 10°30' 0" 25 30 30 30 30 | 11°15' 0" 25 30 30 30 30 | | | | | Aximats moyens où les observations ont été faites. | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | Petits arcs. | N. repoussé. \| N. attiré. | Petits arcs. | N. repoussé. \| N. attiré. | Petits arcs. | N. repoussé. \| N. attiré. | | | | | Points où l'aig. est perpend.. . | |
| | | 15 40 0 | 15 65 0 | 15 45 0 | 15 65 0 | 10 25 0 | 11 20 0 | 10 30 0 | 10 60 0 | | | | | Face au N. \| Face au S. | |
| | | 35 | 60 | 45 | 55 | 35 | 20 | 30 | 60 | | | | | 87° 34' 30" \| 267° 57' 30" | |
| | | 37 | 60 | 40 | 60 | 30 | 20 | 30 | 60 | | | | | Mérid. { Face à l'O. 27°34'30" + 267°57'30" = 177°36' 0" mag. { Face à l'E. 177°36' + 180° = 357°36' 0" | |
| | | 45 | 60 | 45 | 55 | 30 | 15 | 30 | 55 | | | | | Observations faites sur la pile en pierre de la terrasse. | |
| | | 40 | 55 | 45 | 65 | 30 | 15 | 30 | 60 | | | | | (*) On a écrit 15°65' au lieu de 16° 5'. | |
| | | 35 | 55 | 40 | 60 | 30 | 15 | 30 | 60 | | | | | | |
| P. | | 15 15 0 | 15 50 0 | 15 15 0 | 15 45 0 | 10 25 0 | 11 10 0 | 10 30 0 | 10 55 0 | | | | | | |
| | | 15 | 45 | 10 | 50 | 25 | 5 | 15 | 60 | | | | | | |
| | | 10 | 50 | 15 | 45 | 20 | 5 | 30 | 55 | | | | | | |
| | | 15 | 45 | 30 | 50 | 20 | 5 | 22 | 45 | | | | | | |
| | | 15 | 50 | 10 | 50 | 25 | 0 | 25 | 45 | | | | | | |
| | | 20 | 50 | 25 | 50 | 15 | 0 | 20 | 45 | | | | | | |
| | | 15 5 0 | 15 55 0 | 15 15 0 | 15 40 0 | 10 30 0 | 11 0 0 0 | 10 20 0 | 10 45 0 | | | | | | |
| | | 5 | 45 | 15 | 40 | 25 | 0 | 20 | 50 | | | | | | |
| | | 0 | 60 | 20 | 40 | 30 | 0 | 25 | 60 | | | | | | |
| | | 0 | 60 | 10 | 45 | 30 | 0 | 25 | 55 | | | | | | |
| | | 0 | 60 | 20 | 40 | 25 | 0 | 15 | 55 | | | | | | |
| | | 0 | 55 | 20 | 37 | 30 | 0 | 25 | 60 | | | | | | |
| Moyennes... | Lm. | 15 19 50 | 15 56 27 | 15 29 2 | 15 52 47 | ..... | ..... | ..... | ..... |  |  |  |  | Avant pôles changés. 15° 39' 32" { 13° 13' 2" \| 13° 6' 32" | |
|  |  | ..... | ..... | ..... | ..... | 10 30 55 | 11 8 57 | 10 26 7 | 11 0 12 | | | | | Après pôles changés. 10 46 33 } 13° 4' 42" \| Inclinaison | |
| | P. | 15 13 20 | 15 41 40 | 15 23 25 | 15 46 47 | ..... | ..... | ..... | ..... |  |  |  |  | Avant pôles changés. 15 31 18 } 13 4 42 \| définitive. | |
|  |  | ..... | ..... | ..... | ..... | 10 32 30 | 10 50 2 | 10 25 15 | 10 44 37 | | | | | Après pôles changés. 10 38 6 } | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.— AIGUILLE N° 2. | | | | | | | | | | | | REMARQUES. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| AGAGNA, ILE GUAM (ARCHIPEL DES MARIANNES). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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57 | 32 | 2 | 5 | 35 | | | | | | | | 13 | 35 | 30 | 53 | 32 | 0 | 10 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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| Grands arcs. | N. repoussé. | N. attiré. | | | | 12° 8' 0" | 12° 35' 0" | 12° 33' 0" | 12° 52' 0" | 12° 32' 0" | 12° 50' 0" | 13° 12' 0" | 13° 35' 0" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 10 | 37 | 33 | 55 | 32 | 55 | 8 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5° 45' | 33 | 30 | 55 | 30 | 52 | 8 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| matin. | 12 15 0 | 12 33 0 | 12 32 0 | 12 55 0 | 12 32 0 | 13 0 0 | 13 5 0 | 13 37 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 33 | 32 | 55 | 32 | 0 | 10 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 35 | 32 | 55 | 35 | 0 | 8 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 35 | 32 | 55 | 32 | 0 | 10 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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VOYAGE AUTOEUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. | | | | | | | | | | | | REMARQUES. | | |
|---|--|--|-----------|-------------------|-----------|---------------------------------|-----------|-------------|-----------|----------|----------|--|--|---|--|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | |
| AGAGNA, ILE GUAM (ARCHIPEL DES MARIANNE). | | | | | | | | | | | | | | | | |
| Frey. | 1819. Mai, 21, de 1 ^h à 4 ^h soir. | 12°42' 0" | 13° 5' 0" | 12°27' 0" | 12°57' 0" | 12°25' 0" | 12°55' 0" | 12°30' 0" | 12°57' 0" | | | | | Asinuts moyens où les observations ont été faites. | | |
| | | 42 | 10 | 27 | 57 | 25 | 57 | 30 | 57 | | | | | Points où l'aig. est perpend. . | | |
| | | 42 | 10 | 27 | 55 | 25 | 60 | 30 | 57 | | | | | | | |
| | | 45 | 12 | 25 | 55 | 32 | 65 | 30 | 57 | | | | | Face au S. \| Face au N. | | |
| | | 40 | 8 | 25 | 57 | 23 | 55 | 30 | 60 | | | | | | | |
| | | 40 | 5 | 25 | 52 | 27 | 60 | 30 | 57 | | | | | 267° 33' 0" \| 87° 55' 0" | | |
| | | 42 | 8 | 40 | 53 | 25 | 52 | 32 | 60 | | | | | | | |
| | | 12 45 0 | 13 10 0 | 12 42 0 | 12 57 0 | 12 25 0 | 12 50 0 | 12 30 0 | 12 52 0 | | | | | Mérid. { Face à l'O. $\frac{87^{\circ} 55' + 267^{\circ} 23'}{2} = 177^{\circ} 44'$ | | |
| | | 42 | 10 | 42 | 53 | 23 | 50 | 30 | 57 | | | | | Face à l'E. $177^{\circ} 44' + 180^{\circ} = 357^{\circ} 44'$ | | |
| | | 42 | 5 | 35 | 53 | 22 | 47 | 32 | 60 | | | | | | | |
| | | 42 | 8 | 42 | 55 | 32 | 47 | 32 | 60 | | | | | Observations faites sur la pile de la terrasse. | | |
| | | 40 | 5 | 42 | 50 | 30 | 47 | 30 | 60 | | | | | | | |
| | | 42 | 8 | 40 | 53 | 25 | 52 | 32 | 60 | | | | | | | |
| | | 12 30 0 | 12 52 0 | 12 25 0 | 12 47 0 | 12 15 0 | 12 42 0 | 12 27 0 | 12 55 0 | | | | | Face au S. \| Face au N. | | |
| | | 30 | 55 | 20 | 55 | 15 | 45 | 27 | 50 | | | | | | | |
| | | 27 | 57 | 22 | 50 | 15 | 42 | 25 | 45 | | | | | 267° 33' 0" \| 87° 55' 0" | | |
| | | 27 | 50 | 20 | 45 | 17 | 42 | 27 | 52 | | | | | | | |
| | | 30 | 55 | 22 | 50 | 17 | 45 | 20 | 47 | | | | | Mérid. { Face à l'O. $\frac{87^{\circ} 55' + 267^{\circ} 23'}{2} = 177^{\circ} 44'$ | | |
| | | 30 | 57 | 27 | 50 | 15 | 45 | 22 | 50 | | | | | Face à l'E. $177^{\circ} 44' + 180^{\circ} = 357^{\circ} 44'$ | | |
| | | 12 30 0 | 12 55 0 | 12 27 0 | 12 50 0 | 12 15 0 | 12 45 0 | 12 27 0 | 12 50 0 | | | | | | | |
| | | 27 | 52 | 22 | 48 | 15 | 45 | 27 | 52 | | | | | Observations faites sur la pile de la terrasse. | | |
| | | 30 | 48 | 22 | 45 | 15 | 47 | 27 | 50 | | | | | | | |
| | | 27 | 55 | 27 | 43 | 17 | 45 | 25 | 55 | | | | | Face au S. \| Face au N. | | |
| | | 27 | 57 | 25 | 45 | 15 | 45 | 25 | 52 | | | | | | | |
| | | 30 | 48 | 20 | 45 | 17 | 45 | 27 | 50 | | | | | 267° 33' 0" \| 87° 55' 0" | | |
| | | 12 38 0 | 13 8 0 | 12 35 0 | 12 60 0 | 12 25 0 | 12 52 0 | 12 30 0 | 12 67 0 | | | | | | | |
| | | 35 | 12 | 30 | 53 | 25 | 60 | 35 | 65 | | | | | Mérid. { Face à l'O. $\frac{87^{\circ} 55' + 267^{\circ} 23'}{2} = 177^{\circ} 44'$ | | |
| | | 35 | 10 | 28 | 55 | 25 | 57 | 35 | 65 | | | | | Face à l'E. $177^{\circ} 44' + 180^{\circ} = 357^{\circ} 44'$ | | |
| | | 35 | 10 | 25 | 50 | 25 | 60 | 30 | 57 | | | | | | | |
| | | 35 | 8 | 28 | 55 | 25 | 60 | 30 | 60 | | | | | Observations faites sur la pile de la terrasse. | | |
| | | 40 | 10 | 30 | 55 | 25 | 52 | 35 | 60 | | | | | | | |
| | | 12 50 0 | 13 15 0 | 12 35 0 | 12 57 0 | 12 25 0 | 12 57 0 | 12 42 0 | 12 62 0 | | | | | Face au S. \| Face au N. | | |
| | | 42 | 13 | 35 | 60 | 25 | 55 | 42 | 60 | | | | | | | |
| | | 45 | 15 | 30 | 58 | 25 | 57 | 40 | 57 | | | | | 267° 33' 0" \| 87° 55' 0" | | |
| | | 45 | 15 | 30 | 55 | 25 | 57 | 40 | 57 | | | | | | | |
| | | 45 | 15 | 28 | 65 | 25 | 57 | 35 | 57 | | | | | Mérid. { Face à l'O. $\frac{87^{\circ} 55' + 267^{\circ} 23'}{2} = 177^{\circ} 44'$ | | |
| | | 42 | 15 | 28 | 60 | 25 | 55 | 40 | 60 | | | | | Face à l'E. $177^{\circ} 44' + 180^{\circ} = 357^{\circ} 44'$ | | |
| | | 12 25 0 | 13 5 0 | 12 15 0 | 12 45 0 | 12 12 0 | 12 45 0 | 12 30 0 | 12 50 0 | | | | | | | |
| | | 20 | 5 | 15 | 40 | 10 | 45 | 30 | 60 | | | | | Observations faites sur la pile de la terrasse. | | |
| | | 27 | 0 | 13 | 40 | 17 | 45 | 30 | 55 | | | | | | | |
| | | 30 | 0 | 13 | 45 | 17 | 45 | 25 | 52 | | | | | Face au S. \| Face au N. | | |
| | | 27 | 0 | 15 | 42 | 15 | 45 | 27 | 60 | | | | | | | |
| | | 30 | 5 | 15 | 42 | 17 | 45 | 27 | 60 | | | | | 267° 33' 0" \| 87° 55' 0" | | |
| | | 12 20 0 | 12 55 0 | 12 15 0 | 12 45 0 | 12 15 0 | 12 40 0 | 12 30 0 | 12 55 0 | | | | | | | |
| | | 20 | 55 | 17 | 40 | 8 | 40 | 30 | 57 | | | | | Mérid. { Face à l'O. $\frac{87^{\circ} 55' + 267^{\circ} 23'}{2} = 177^{\circ} 44'$ | | |
| | | 20 | 55 | 17 | 45 | 5 | 40 | 30 | 55 | | | | | Face à l'E. $177^{\circ} 44' + 180^{\circ} = 357^{\circ} 44'$ | | |
| | | 20 | 60 | (⁶⁰) | 17 | 40 | 8 | 45 | 27 | | | | | Observations faites sur la pile de la terrasse. | | |
| | | 25 | 60 | 17 | 45 | 5 | 45 | 30 | 55 | | | | | | | |
| | | 20 | 60 | 17 | 50 | 5 | 45 | 30 | 60 | | | | | Face au S. \| Face au N. | | |
| | | 12 35 22 | 13 0 22 | 12 28 15 | 12 51 7 | | | 12 20 55 | 12 49 5 | 12 28 0 | 12 54 15 | | | | | |
| Moyennes... | Frey. | | | | | | | 12 20 55 | 12 49 5 | 12 28 0 | 12 54 15 | | | | | |
| | Lm. | 12 32 7 | 13 6 5 | 12 22 50 | 12 50 5 | | | 12 18 5 | 12 50 10 | 12 32 30 | 12 58 22 | | | | | |

Avant pôles changés. 12°43' 47" { 12°40' 55" } 12°41' 7"
 Après pôles changés. 12 38 4 { 12 41 17 } Inclinaison définitive.
 Avant pôles changés. 12 42 47 { 12 41 17 }
 Après pôles changés. 12 39 47 { 12 41 17 }

INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 0. (Série A.)

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 0. (Série A.) | | | | | | | | REMARQUES. | |
|---|--|--------------|---|---|---|---|---|--|---|--|--|-------|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHARGÉS PAR 40 FRICTIONS. | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| AGAGNA, ILE GUAM. (ARCHIPEL DES MARIANNES.) | | | | | | | | | | | | |
| Frey. | 1819. Mai, 27, de 7 ^h 10' à 10 ^h 40' matin. | N. attiré. | 15°52' 0" 16° 7' 0" 45 55 55 52 50 50 55 51 55 | 16° 0' 0" 5 7 0 7 10 5 16 0 52 15 57 | 16°12' 0" 12 12 5 7 5 10 12 10 12 | 10°10' 0" 8 10 10 12 10 10 37 .8 30 | 10°30" 0" 27 30 30 32 30 45 45 38 30 | 0°45' 0" 45 47 40 40 45 45 45 38 40 | 10° 2' 0" 9 55 55 50 55 9 50 9 50 52 57 55 | Azimuts moyens où les observations ont été faites. | | |
| | | Grands arcs. | 15 52 0 50 50 45 40 45 45 42 40 | 16 7 0 5 50 2 50 2 55 0 52 15 52 57 55 52 10 55 10 52 50 | 15 50 0 16 10 0 10 15 0 10 30 0 9 38 0 | 10 15 0 10 10 32 30 32 32 32 37 30 | 10 30 0 30 30 32 32 32 32 32 33 30 | 9 38 0 9 57 0 | Points où l'aig. est perpendic. | | | |
| | | N. repoussé. | 15 32 0 35 32 30 30 35 32 32 35 35 | 15 47 0 50 45 40 42 35 40 40 37 45 | 15 35 0 37 15 57 35 16 2 40 0 35 0 35 0 40 0 35 15 57 37 16 0 37 0 | 16 0 0 15 57 16 2 0 0 55 50 55 52 50 | 9 50 0 50 50 52 55 50 50 55 55 52 | 9 20 0 12 12 15 2 15 15 7 57 12 17 | 9 42 0 42 40 40 40 37 40 42 37 45 | Mérid. { Face à l'O. = $\frac{87^\circ 31' + 267^\circ 58'}{2} = 177^\circ 44' 30''$ magno. { Face à l'E. = $177^\circ 44' 30'' + 180^\circ = 357^\circ 44' 30''$ | | |
| | | Petits arcs. | 15 35 0 32 35 32 30 30 30 32 35 | 15 47 0 45 47 45 42 42 45 45 45 | 15 37 0 37 16 2 40 0 37 15 55 35 16 0 35 0 32 15 57 32 16 0 30 15 57 | 15 57 0 52 52 52 55 52 52 55 52 50 | 9 45 0 52 52 52 55 52 52 55 52 50 | 10 5 0 10 15 15 15 17 17 17 17 10 | 9 20 0 15 22 22 20 22 22 22 22 25 | 9 42 0 40 38 38 42 40 42 40 42 | Nota. Cette observation a été faite sur la pile de la terrasse. | |
| | | N. repoussé. | 15 40 27 | 15 53 19 | 15 44 16 | 16 4 45 | | | | | | |
| Moyennes. (Série A.) | | | 15 40 27 | 15 53 19 | 15 44 16 | 16 4 45 | 10 0 36 | 10 29 58 | 9 29 1 | 9 47 42 | Avant pôles changés = 15°50'32" } = 12° 52' 35" Incl. défini. Après pôles changés = 9 54 34 } | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATIONS. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 0. (Série B.) | | | | | | | | | | REMARQUES. | | | | |
|--|----------------------------------|----------|---|-----------|-------------|-----------|--------------|-----------|-------------|----------|--|--|------------|--|--|--|--|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | |
| AGAGNA, ILE GUAM (ARCHIPEL DES MARIANNES). | | | | | | | | | | | | | | | | | |
| Frey. | 1819. | | 15°52' 0" | 16° 7' 0" | 15°52' 0" | 16°15' 0" | 10° 5' 0" | 10°27' 0" | 9°35' 0" | 9°57' 0" | NOTA. Les points azimuthaux où cette observation a été faite sont les mêmes que pour l'observation précédente. | | | | | | |
| Mai, | 27, | | 50 | 5 | 55 | 12 | 7 | 30 | 32 | 52 | | | | | | | |
| de 7 ^h 10 ^m | à 7 ^h 40 ^m | | 52 | 0 | 57 | 12 | 7 | 30 | 35 | 57 | | | | | | | |
| matin. | | | 45 | 15 57 | 50 | 12 | 7 | 27 | 35 | 10 0 | | | | | | | |
| | | | 45 | 55 | 50 | 2 | 3 | 30 | 40 | 0 | | | | | | | |
| | | | 42 | 55 | 50 | 2 | 10 | 30 | 35 | 9 52 | | | | | | | |
| | | | 40 | 57 | 50 | 5 | 10 | 27 | 42 | 57 | | | | | | | |
| | | | 40 | 57 | 57 | 15 | 3 | 30 | 40 | 55 | | | | | | | |
| | | | 40 | 57 | 55 | 12 | 8 | 32 | 40 | 50 | | | | | | | |
| | | | 42 | 57 | 55 | 10 | 5 | 32 | 42 | 52 | | | | | | | |
| | | | Grands arcs. | | N. attiré. | | N. repoussé. | | N. attiré. | | | | | | | | |
| | | | 15 50 0 | 15 57 0 | 15 55 0 | 16 0 0 | 10 15 0 | 10 30 0 | 9 42 0 | 9 50 0 | | | | | | | |
| | | | 52 | 16 0 | 52 | 12 | 10 | 32 | 32 | 55 | | | | | | | |
| | | | 50 | 15 57 | 55 | 10 | 12 | 27 | 30 | 50 | | | | | | | |
| | | | 45 | 55 | 55 | 7 | 5 | 32 | 30 | 52 | | | | | | | |
| | | | 52 | 55 | 52 | 7 | 7 | 22 | 30 | 52 | | | | | | | |
| | | | 42 | 52 | 47 | 0 | 10 | 32 | 35 | 55 | | | | | | | |
| | | | 40 | 55 | 50 | 0 | 12 | 32 | 37 | 55 | | | | | | | |
| | | | 42 | 57 | 50 | 7 | 5 | 30 | 35 | 50 | | | | | | | |
| | | | 42 | 16 0 | 47 | 10 | 7 | 32 | 35 | 55 | | | | | | | |
| | | | 42 | 15 57 | 47 | 2 | 7 | 35 | 32 | 55 | | | | | | | |
| | | | Petits arcs. | | N. attiré. | | N. repoussé. | | N. attiré. | | | | | | | | |
| | | | 15 32 0 | 15 47 0 | 15 35 0 | 15 52 0 | 9 50 0 | 10 12 0 | 9 20 0 | 9 42 0 | | | | | | | |
| | | | 32 | 45 | 37 | 57 | 50 | 15 | 15 | 40 | | | | | | | |
| | | | 32 | 42 | 40 | 55 | 52 | 12 | 17 | 42 | | | | | | | |
| | | | 32 | 40 | 40 | 57 | 52 | 20 | 12 | 30 | | | | | | | |
| | | | 30 | 45 | 37 | 57 | 57 | 17 | 17 | 40 | | | | | | | |
| | | | 30 | 42 | 37 | 16 0 | 57 | 20 | 17 | 30 | | | | | | | |
| | | | 32 | 47 | 37 | 15 55 | 50 | 15 | 15 | 32 | | | | | | | |
| | | | 30 | 42 | 37 | 55 | 57 | 20 | 17 | 35 | | | | | | | |
| | | | 32 | 42 | 37 | 52 | 52 | 10 | 17 | 42 | | | | | | | |
| | | | 30 | 42 | 32 | 16 0 | 55 | 5 | 20 | 40 | | | | | | | |
| | | | Petits arcs. | | N. attiré. | | N. repoussé. | | N. attiré. | | | | | | | | |
| | | | 15 37 0 | 15 50 0 | 15 40 0 | 15 57 0 | 9 50 0 | 10 20 0 | 9 20 0 | 9 45 0 | | | | | | | |
| | | | 32 | 50 | 40 | 16 0 | 55 | 20 | 25 | 47 | | | | | | | |
| | | | 32 | 45 | 40 | 15 52 | 57 | 25 | 25 | 45 | | | | | | | |
| | | | 32 | 42 | 35 | 16 0 | 52 | 5 | 22 | 50 | | | | | | | |
| | | | 32 | 42 | 40 | 15 57 | 57 | 2 | 25 | 45 | | | | | | | |
| | | | 32 | 47 | 35 | 57 | 57 | 7 | 20 | 40 | | | | | | | |
| | | | 32 | 47 | 37 | 16 0 | 55 | 5 | 22 | 35 | | | | | | | |
| | | | 30 | 40 | 35 | 15 57 | 52 | 15 | 22 | 47 | | | | | | | |
| | | | 27 | 42 | 35 | 55 | 52 | 12 | 27 | 47 | | | | | | | |
| | | | 27 | 40 | 40 | 57 | 50 | 17 | 25 | 40 | | | | | | | |
| Moyennes. (Série B.) | | | 15 38 15 | 15 50 46 | 15 44 40 | 16 2 6 | ..... | ..... | ..... | ..... | Avec pôles changés = 15°48'57" | | | | | | |
|  |  |  | ..... | ..... | ..... | ..... | 10 0 36 | 10 21 49 | 9 27 51 | 9 47 22 | Après pôles changés = 9 54 25 | $\left\{ \begin{array}{l} = 12^{\circ}51'41'' \text{ Ind. décl.} \\ \end{array} \right.$ | | | | | |

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|---|---|--|---|------|-------------|------|---------------------------------|------|-------------|------|--|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 60 FRICTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| TRAVERSÉE DES MARIANNEZ A L'ILE OWAÏHI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | |
| Lm. | 1619. Juin, 15, de midi à 3 ^h 55' soir. | Grands arcs. N. repousé. \| N. attiré. | 21°15' 0" \| 21°20' 0" \| 20°40' 0" \| 20°55' 0" \| 22°40' 0" \| 22°45' 0" \| 22°60' 0" \| 23° 0' 0" | | | | | | | | | Points du cercle azimuthal parallèles à la quille. | |
| | | | 15 \| 10 \| 45 \| 45 \| 40 \| 30 \| 60 \| 0 | | | | | | | | | | |
| | | | 15 \| 10 \| 55 \| 40 \| 45 \| 45 \| 60 \| 0 | | | | | | | | | | |
| | | | 20 \| 0 \| 40 \| 50 \| 30 \| 28 \| 50 \| 0 | | | | | | | | | | |
| | | | 21 15 0 \| 21 8 0 \| 20 40 0 \| 20 55 0 \| 22 50 0 \| 23 0 0 \| 22 20 0 \| 22 25 0 | | | | | | | | | | |
| | | | 15 \| 15 \| 45 \| 55 \| 45 \| 10 \| 25 \| 25 | | | | | | | | | | |
| | | | 10 \| 10 \| 40 \| 50 \| 48 \| 5 \| 25 \| 30 | | | | | | | | | | |
| | | | 15 \| 8 \| 40 \| 50 \| 33 \| 0 \| 25 \| 30 | | | | | | | | | | |
| | | | 21 45 0 \| 21 25 0 \| 20 25 0 \| 20 25 0 \| 22 18 0 \| 22 25 0 \| 22 25 0 \| 22 30 0 | | | | | | | | | | |
| | | | 40 \| 40 \| 25 \| 30 \| 15 \| 35 \| 45 \| 30 | | | | | | | | | | |
| | | | 45 \| 30 \| 27 \| 20 \| 15 \| 30 \| 45 \| 30 | | | | | | | | | | |
| | | | 30 \| 30 \| 25 \| 20 \| 18 \| 35 \| 60 \| 30 | | | | | | | | | | |
| | | | 20 45 0 \| 20 55 0 \| 20 10 0 \| 20 35 0 \| 22 15 0 \| 22 25 0 \| 22 30 0 \| 22 20 0 | | | | | | | | | | |
| | | | 45 \| 35 \| 10 \| 45 \| 37 \| 35 \| 30 \| 25 | | | | | | | | | | |
| | | | 40 \| 40 \| 15 \| 15 \| 25 \| 15 \| 30 \| 35 | | | | | | | | | | |
| | | | 40 \| 40 \| 0 \| 10 \| 20 \| 15 \| 30 \| 25 | | | | | | | | | | |
| Frey. | | Grands arcs. N. repousé. \| N. attiré. | 21 0 0 \| 21 0 0 \| 21 55 0 \| 21 45 0 \| 22 55 0 \| 22 40 0 \| 22 55 0 \| 23 7 0 | | | | | | | | | | |
| | | | 5 \| 0 \| 50 \| 47 \| 55 \| 45 \| 55 \| 7 | | | | | | | | | | |
| | | | 2 \| 0 \| 55 \| 47 \| 60 \| 45 \| 55 \| 0 | | | | | | | | | | |
| | | | 10 \| 7 \| 60 \| 47 \| 60 \| 40 \| 60 \| 5 | | | | | | | | | | |
| | | | 20 55 0 \| 20 55 0 \| 20 3 0 \| 20 15 0 \| 22 45 0 \| 22 65 0 \| 23 0 0 \| 22 55 0 | | | | | | | | | | |
| | | | 55 \| 45 \| 12 \| 10 \| 45 \| 30 \| 0 \| 55 | | | | | | | | | | |
| | | | 53 \| 53 \| 10 \| 10 \| 30 \| 25 \| 0 \| 60 | | | | | | | | | | |
| | | | 55 \| 60 \| 10 \| 15 \| 30 \| 40 \| 2 \| 55 | | | | | | | | | | |
| | | | 20 53 0 \| 20 40 0 \| 20 15 0 \| 20 10 0 \| 22 40 0 \| 22 10 0 \| 22 35 0 \| 22 5 0 | | | | | | | | | | |
| | | | 65 \| 68 \| 10 \| 8 \| 45 \| 5 \| 40 \| 5 | | | | | | | | | | |
| | | | 35 \| 55 \| 15 \| 20 \| 40 \| 10 \| 35 \| 7 | | | | | | | | | | |
| | | | 60 (*) \| 45 \| 10 \| 22 \| 40 \| 5 \| 35 \| 0 | | | | | | | | | (*) 20° 60' = 21°. | |
| | | | 20 40 0 \| 20 40 0 \| 20 12 0 \| 20 5 0 \| 22 45 0 \| 22 35 0 \| 22 30 0 \| 22 17 0 | | | | | | | | | | |
| | | | 45 \| 38 \| 16 \| 8 \| 55 \| 42 \| 30 \| 25 | | | | | | | | | | |
| | | | 40 \| 45 \| 15 \| 0 \| 45 \| 42 \| 37 \| 27 | | | | | | | | | | |
| | | | 50 \| 37 \| 20 \| 0 \| 45 \| 52 \| 30 \| 25 | | | | | | | | | | |
| Moyenne... { | Lm... . | | 21 13 7 \| 21 8 30 \| 20 30 7 \| 20 37 30 \| ..... \| ..... \| ..... \| ..... \| |  |  |  |  |  |  |  |  | Avant pôles changés 20° 52' 10" } 21° 43' 58" | |
| | Frey... . |  | ..... \| ..... \| ..... \| ..... \| 22 30 32 \| 22 37 22 \| 22 38 45 \| 22 35 56 | | | | | | | | | Après pôles changés 22 35 46 } 21° 43' 31" | |
| | | | 20 53 56 \| 20 61 45 \| 20 38 0 \| 20 34 19 \| ..... \| ..... \| ..... \| ..... \| |  |  |  |  |  |  |  |  | Avant pôles changés 20 44 30 } Ind. définit°. | |
|  |  |  | ..... \| ..... \| ..... \| ..... \| 22 45 56 \| 22 33 4 \| 22 46 11 \| 22 37 11 | | | | | | | | | Après pôles changés 22 40 36 } 21° 42 53 | |

| Division de droite. | Division de gauche. |
|---------------------|---------------------|
| 175° 34' | 184° 26' |

Cap.... N. 22° 30' O.

Mérid. Face à l'O. 175° 34' — 22° 30' = 153° 4' div. droite.
maga. Face à l'E. 180° — 153° 4' = 26° 56' div. gauche.Après l'observation des nombres des deux premières colonnes face à l'O., pour l'un et l'autre observateur, les vents ayant varié, on a mis le cap au N., et l'on a eu:
Mérid. Face à l'O. 175° 34' division de droite.
maga. Face à l'E. 180° — 175° 34' = 4° 26' div. gauche.Mer... Assez belle.
Mouvements du vaisseau peu considérables.

Pointe élevée de l'aiguille = Pointe S.

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | | | REMARQUES. | | |
|---|--|--|---|---|--|--|--|--|---|---|--|--|--|------------|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | |
| TRAVERSÉE DES MARIANNES A L'ILE OWAÏHI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | | | | |
| Frey. | 1819. Juin, 17, de 11 ^h 20' matin à 3 ^h 35' soir. | Grands arcs. N. attiré. N. repoussé. | 26°12' 0" 25 57 26 5 15 15 25 30 26 20 | 25°47' 0" 17 47 42 32 47 | 26°42' 0" 20 50 25 55 27 20 | 26°52' 0" 42 55 42 45 27 5 | 24°35' 0" 50 22 50 45 52 | 24°40' 0" 47 40 42 45 55 | 23°15' 0" 42 50 22 30 30 | 23°25' 0" 30 32 30 37 30 | Points de cercle azimuthal parallèles à la quille. | | | | | |
| | | Petits arcs. N. attiré. N. repoussé. | 25 10 0 17 30 15 30 20 | 26 50 0 35 30 25 40 26 0 25 52 | 27 30 0 30 32 32 40 7 | 26 55 0 32 27 27 15 40 35 | 23 45 0 25 25 52 45 22 | 22 35 0 42 45 40 55 35 | 22 35 0 40 40 42 40 40 | 23 47 0 57 60 32 32 22 | Cep à Est. | | | | | |
| | | Grands arcs. N. attiré. N. repoussé. | 25 55 0 20 22 50 20 40 | 24 40 0 45 50 55 52 42 | 26 50 0 45 40 5 67 40 | 26 35 0 32 45 67 67 65 | 24 30 0 7 7 30 22 37 | 24 25 0 27 27 40 47 40 | 23 30 0 27 12 52 15 15 | 23 20 0 37 30 32 30 40 | Pointe élevée de l'aiguille.... Sud. | | | | | |
| | | Petits arcs. N. attiré. N. repoussé. | 25 30 0 22 17 30 12 45 | 25 15 0 35 12 35 40 10 | 26 25 0 15 15 25 42 5 15 | 25 35 0 24 40 25 42 23 55 24 25 23 45 | 23 42 0 5 5 23 25 30 37 | 24 50 0 50 15 23 25 30 45 | 23 37 0 25 35 40 25 50 | 22 52 0 50 22 35 45 42 | Mérid. { Face à l'O. 184° 26' — 90° = 94° 26' div. gauche. magn. { Face à l'E. 94° 26' — 180 = 85° 34' div. droite. | | | | | |
| Lm. | | Grands arcs. N. attiré. N. repoussé. | 24 60 0 35 15 10 62 10 | 24 55 0 35 40 35 55 60 | 25 25 0 26 0 25 30 26 0 27 10 15 | 26 45 0 25 40 25 30 45 26 10 0 | 24 30 0 20 15 30 10 30 | 25 30 0 35 20 30 30 20 | 23 30 0 45 20 30 30 20 | 23 45 0 55 30 35 50 60 | (*) 24° 60' = 25°. | | | | | |
| | | Petits arcs. N. attiré. N. repoussé. | 24 80 0 45 25 80 30 80 | 24 55 0 5 40 30 55 85 | 26 40 0 30 10 15 30 30 | 25 65 0 35 42 60 75 30 | 25 55 0 25 15 10 30 24 50 | 24 45 0 35 0 45 50 50 | 22 45 0 23 10 22 45 10 24 0 | 23 35 0 25 0 30 40 30 | | | | | | |
| | | Grands arcs. N. attiré. N. repoussé. | 24 10 0 70 30 75 77 27 | 24 55 0 82 30 0 45 25 | 24 30 0 26 0 25 55 26 35 15 25 50 | 25 80 0 55 37 30 30 30 | 24 50 0 23 45 24 20 23 45 40 24 5 | 23 35 0 52 50 62 40 42 | 22 30 0 45 40 30 0 30 | 23 35 0 10 20 55 30 30 | | | | | | |
| | | Petits arcs. N. attiré. N. repoussé. | 24 30 0 0 17 15 0 23 55 | 24 30 0 0 0 40 32 23 45 | 25 45 0 55 26 45 25 45 50 25 55 | 27 0 0 26 55 26 45 26 15 30 22 | 24 15 0 45 40 20 20 50 | 24 15 0 20 20 22 20 10 | 22 30 0 30 30 20 30 40 | 23 30 0 24 0 22 50 24 10 23 15 24 22 | | | | | | |
| Moyennes...{ | Frey. | | 25 33 30 | 25 28 45 | 26 42 30 | 26 30 42 ..... | ..... | ..... | ..... | ..... | Avant pôles changés. 26° 5' 22" / 24° 53' 38" | | | | | |
| | Lm. | | 24 36 35 | 24 36 25 | 26 10 37 | 26 2 32 | 24 36 40 | 24 27 55 | 23 22 5 | 23 37 22 | Après pôles changés. 23 41 54 } 24° 47' 27" | | | | | |
| | | | | | | | | | | | Avant pôles changés. 25 21 32 } 24° 41' 17" Incl. débité. | | | | | |
| | | | | | | | | | | | Après pôles changés. 24 1 1 } 24 41 17" Incl. débité. | | | | | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | |
|--|--------------------|--|---------------------------------|------------|-------------|------------|---------------------------------|------------|-------------|------------|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. | |
| | | | Face à l'O. | | Face à l'O. | | Face à l'O. | | Face à l'E. | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| TRAVERSÉE DES MARIANNE'S A L'ÎLE OWAÏHI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | |
| Frey. | 1819. | Grands arcs. N. attiré. N. repoussé. | 33° 67' 0" | 32° 35' 0" | 32° 45' 0" | 32° 65' 0" | 34° 75' 0" | 34° 12' 0" | 35° 35' 0" | 35° 22' 0" | Points du cercle azimuthal parallèles à la quille. | |
| | Juin, | | 40 | 67 | 30 | 45 | 65 | 32 | 37 | 25 | | |
| | 26, | | 7 | 80 | 40 | 30 | 85 | 47 | 45 | 30 | | |
| | de | | 70 | 77 | 22 | 30 | 35 | 30 | 25 | 25 | | |
| | 2 ^h 30' | | 15 | 62 | 45 | 47 | 35 | 22 | 35 | 45 | | |
| | à 5 ^h | | 15 | 55 | 20 | 60 | 45 | 25 | 20 | 20 | | |
| | soir. | | 32 60 0 | 32 42 0 | 32 35 0 | 32 52 0 | 33 60 0 | 33 52 0 | 34 52 0 | 34 60 0 | | |
| | | | 57 | 65 | 45 | 50 | 62 | 67 | 37 | 60 | | |
| | | | 90 | 45 | 32 | 42 | 55 | 52 | 42 | 45 | | |
| | | | 55 | 45 | 45 | 45 | 40 | 55 | 52 | 57 | | |
| Lm. | | | 85 | 30 | 37 | 42 | 40 | 60 | 45 | 50 | | |
| | | | 75 | 45 | 30 | 42 | 62 | 52 | 47 | 50 | | |
| | | Petits arcs. N. attiré. N. repoussé. | 33 7 0 | 33 10 0 | 32 22 0 | 32 40 0 | 33 45 0 | 33 30 0 | 35 2 0 | 34 50 0 | Cap.... N. 68° E. | |
| | | | 30 | 15 | 32 | 40 | 52 | 75 | 0 | 57 | | |
| | | | 0 | 20 | 25 | 45 | 60 | 22 | 0 | 60 | | |
| | | | 5 | 17 | 22 | 37 | 60 | 67 | 0 | 50 | | |
| | | | 15 | 15 | 15 | 35 | 62 | 57 | 0 | 62 | | |
| | | | 5 | 20 | 22 | 30 | 52 | 55 | 7 | 60 | | |
| | | | 32 60 0 | 32 42 0 | 32 15 0 | 32 5 0 | 32 67 0 | 33 27 0 | 34 47 0 | 34 45 0 | Pointe élevée.... Sud. | |
| | | | 55 | 35 | 25 | 60 | 65 | 30 | 32 | 62 | | |
| | | | 57 | 52 | 10 | 22 | 80 | 30 | 55 | 42 | | |
| | | | 55 | 45 | 15 | 15 | 57 | 27 | 42 | 45 | | |
| Moyennes... | | | 45 | 42 | 17 | 0 | 60 | 30 | 55 | 55 | | |
| | | Petits arcs. N. attiré. N. repoussé. | 42 | 55 | 12 | 30 | 77 | 35 | 50 | 40 | | |
| | | | 32 60 0 | 32 90 0 | 31 85 0 | 32 15 0 | 33 65 0 | 32 65 0 | 34 70 0 | 34 55 0 | Mer..... Houleuse, quoique calme. | |
| | | | 60 | 30 | 55 | 30 | 80 | 75 | 75 | 60 | | |
| | | | 90 | 45 | 70 | 15 | 30 | 57 | 50 | 60 | | |
| | | | 90 | 35 | 90 | 25 | 60 | 115 | 45 | 55 | | |
| | | | 45 | 70 | 60 | 15 | 30 | 115 | 20 | 60 | | |
| | | | 45 | 35 | 80 | 15 | 72 | 115 | 25 | 60 | | |
| | | | 32 55 0 | 32 80 0 | 32 45 0 | 32 15 0 | 33 30 0 | 33 10 0 | 34 60 0 | 34 70 0 | Roulis..... Irréguliers et parfois assez incommodes. | |
| | | | 30 | 75 | 40 | 20 | 20 | 35 | 60 | 70 | | |
| Frey. | | | 70 | 50 | 30 | 45 | 30 | 37 | 50 | 45 | Tangages... Médiocres. | |
| | | | 55 | 90 | 20 | 40 | 30 | 40 | 35 | 65 | | |
| | | | 45 | 90 | 22 | 40 | 30 | 45 | 75 | 55 | | |
| | | | 70 | 65 | 30 | 45 | 25 | 15 | 75 | 55 | Observation.. Jugeé bonne. | |
| | | Petits arcs. N. attiré. N. repoussé. | 75 | 20 | 10 | 25 | 40 | 45 | 60 | 15 | | |
| | | | 77 | 0 | 20 | 25 | 45 | 30 | 45 | 10 | | |
| | | | 55 | 10 | 15 | 30 | 45 | 45 | 60 | 15 | | |
| | | | 60 | 15 | 17 | 25 | 30 | 40 | 45 | 15 | | |
| | | | 60 | 20 | 20 | 30 | 45 | 30 | 45 | 25 | | |
| | | | 32 50 0 | 32 60 0 | 32 10 0 | 32 40 0 | 33 30 0 | 33 15 0 | 34 15 0 | 34 45 0 | | |
| | | | 42 | 65 | 20 | 30 | 25 | 15 | 40 | 35 | | |
| | | | 50 | 40 | 15 | 45 | 20 | 30 | 20 | 30 | | |
| | | | 50 | 35 | 0 | 10 | 25 | 20 | 30 | 35 | | |
| | | | 45 | 40 | 10 | 40 | 30 | 30 | 30 | 40 | | |
| Moyennes... | | | 45 | 45 | 2 | 15 | 15 | 20 | 25 | 45 | | |
| | | | 33 12 10 | 32 57 20 | 32 27 25 | 32 37 52 | ..... | ..... | ..... | ..... | Avant pôles changés. 32° 48' 42" | |
|  |  |  | ..... | ..... | ..... | ..... | 33 58 10 | 33 56 17 | 35 1 45 | 35 1 32 | 33° 39' 5" | |
| | | | 32 57 27 | 33 1 27 | 32 17 45 | 32 27 17 | ..... | ..... | ..... | ..... | Après pôles changés. 34 29 26 | |
| Lm. |  |  | ..... | ..... | ..... | ..... | 33 37 35 | 33 29 20 | 34 47 5 | 34 57 30 | 35° 33' 0" | |
|  |  |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Inclinaison définitive. | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | | | REMARQUES. | | | | |
|--|---|--------------|--|------------|--|--------------|-------------------------------|------------|----------------------------|--------------|---------------------------------|------------|----------------------------|--------------|--|---|----------|---------------------|----------|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | | | |
| TRAVERSÉE DES MARIANNEΣ A L'ILE OWAÏHI ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | | | | | | | |
| Frey. | 1819. Juillet, 9, de 10 ^h 35' matin à 9 ^h soir. Inter- ruption de l ^h 30' à 2 ^h 21' à cause de la pluie. | Grands arcs. | 47° 75' 0" 48° 32' 0" 49° 60' 0" 49° 52' 0" 48° 40' 0" 48° 2' 0" 47° 15' 0" 46° 55' 0" | N. attiré. | 47 55 0 48 27 0 49 65 0 49 60 0 47 80 0 47 45 0 47 0 0 47 22 0 | N. repoussé. | 67 15 65 65 50 0 15 50 | N. attiré. | 82 20 62 45 60 12 30 60 | N. repoussé. | 77 22 60 60 47 0 10 60 | N. attiré. | 95 37 65 60 60 10 20 55 | N. repoussé. | 47 15 50 60 45 2 32 55 | Points du cercle azimuthal parallèles à la quille. | | | |
| | | Petits arcs. | 48 15 9 48 25 0 49 40 0 49 0 0 47 90 0 47 75 0 47 22 0 47 20 0 | N. attiré. | 7 7 35 37 75 75 2 37 | N. repoussé. | 12 5 30 15 82 67 15 40 | N. attiré. | 27 15 25 30 52 65 50 15 | N. repoussé. | 17 0 50 37 85 55 2 60 | N. attiré. | 15 25 35 30 80 55 10 60 | N. repoussé. | 47 52 0 47 62 0 49 30 0 49 5 0 0 47 82 0 47 90 0 48 32 0 48 10 0 | Division de gauche. | 184° 26' | Division de droite. | 175° 34' |
| | | Grands arcs. | 48 25 0 48 45 0 49 60 0 49 45 0 48 70 0 49 12 0 47 45 0 47 75 0 | N. attiré. | 20 45 62 45 85 20 90 70 | N. repoussé. | 25 30 15 50 55 5 60 60 | N. attiré. | 7 35 60 35 57 2 55 45 | N. repoussé. | 30 25 50 30 90 35 90 65 | N. attiré. | 0 60 55 50 85 5 75 60 | N. repoussé. | 48 35 0 48 30 0 49 25 0 49 10 0 48 35 0 48 70 0 48 15 0 48 30 0 | Mérid. magn. Face à l'O. 184° 26' — 22° = 162° 26' Face à l'E. 162 26 — 180 = 17 34 | | | |
| Lm. | | Petits arcs. | 48 15 0 48 30 0 48 85 0 49 15 0 48 60 0 48 55 0 47 45 0 48 0 0 | N. attiré. | 20 35 90 22 25 30 75 40 47 20 | N. repoussé. | 25 40 62 30 77 25 50 40 40 10 | N. attiré. | 25 30 27 25 25 25 60 60 25 | N. repoussé. | 30 65 30 45 55 70 50 15 | N. attiré. | 27 30 20 35 40 40 60 60 10 | N. repoussé. | 48 10 0 48 30 0 48 22 0 48 92 0 47 72 0 48 45 0 47 55 0 47 85 0 | Pointe élevée.... Sud. | | | |
| | | Grands arcs. | 48 10 0 48 30 0 48 22 0 48 92 0 47 72 0 48 45 0 47 55 0 47 85 0 | N. attiré. | 20 50 60 80 65 0 45 55 | N. repoussé. | 25 50 85 55 55 60 60 90 | N. attiré. | 0 25 75 65 60 65 45 50 | N. repoussé. | 25 35 75 85 50 15 60 55 | N. attiré. | 35 22 50 100 65 5 60 60 | N. repoussé. | 48 3 42 48 15 32 49 43 27 49 35 55 48 18 47 48 3 5 47 32 20 47 32 32 | Mer..... Un peu houleuse. Roulis..... Sensibles, mais peu forts. Tangages... Idem. Observation.. Passable. | | | |
| Moyennes... | Frey. | | 48 3 42 48 15 32 49 43 27 49 35 55 48 18 47 48 3 5 47 32 20 47 32 32 | | | | | | | | | | | | Avant pôles changés. 48° 54' 30" { 48° 23' 18" { 48° 33' 56" { Inclinaison définitive. | | | | |
| | Lm. | | 48 22 2 48 37 35 49 23 27 49 28 15 48 40 47 48 49 17 48 9 27 48 9 35 | | | | | | | | | | | | Après pôles changés. 47 51 56 { 48 57 50 { 48 42 33 { Inclinaison définitive. | | | | |

| OBSERVATIONS. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | | | REMARQUES. | |
|--|---|---|--|------------|-------------|------------|---------------------------------|------------|-------------|-----------|---|--|--|--|---|--|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | |
| TRAVERSÉE DES MARIANNE'S A L'ÎLE OWAIHI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | | | | |
| Frey. | 1819. Juillet, 19, de midi 40' à 4 ^h soir. | Grands arcs. Petits arcs. N. repoussé. \| N. attiré. | 59° 60' 0" | 59° 60' 0" | 58° 57' 0" | 58° 35' 0" | 58° 55' 0" | 58° 35' 0" | 60° 22' 0" | 60° 0' 0" | Points du cercle axial parallèles à la quille. | | | | Mérid. magn. { Face à l'O. 184° 26' — 78° 45' = 105° 41' { Face à l'E. 105° 41' — 180° 0' = -74° 19' | |
| | | | 60 | 57 | 15 | 30 | 55 | 65 | 10 | 20 | | | | | | |
| | | | 70 | 45 | 22 | 25 | 25 | 52 | 5 | 15 | | | | | | |
| | | | 55 | 67 | 62 | 27 | 42 | 62 | 20 | 25 | | | | | | |
| | | | 60 | 30 | 62 | 25 | 57 | 37 | 10 | 37 | | | | | | |
| | | | 57 | 52 | 22 | 22 | 27 | 50 | 30 | 35 | | | | | | |
| | | | 59 30 0 | 59 70 0 | 58 2 0 | 58 27 0 | 58 15 0 | 58 30 0 | 60 27 0 | 60 27 0 | | | | | | |
| | | | 35 | 50 | 57 | 27 | 30 | 65 | 35 | 42 | | | | | | |
| | | | 60 | 57 | 35 | 32 | 20 | 62 | 10 | 15 | | | | | | |
| | | | 35 | 45 | 57 | 15 | 40 | 20 | 10 | 20 | | | | | | |
| Lm. | 59 22 0 | Grands arcs. Petits arcs. N. repoussé. \| N. attiré. | 60 | 50 | 55 | 17 | 60 | 62 | 15 | 20 | | | | | | |
| | | | 35 | 55 | 57 | 30 | 30 | 35 | 27 | 15 | | | | | | |
| | | | 50 | 35 | 47 | 52 | 12 | 40 | 20 | 20 | | | | | | |
| | | | 55 | 10 | 2 | 22 | 55 | 45 | 7 | 22 | | | | | | |
| | | | 40 | 15 | 5 | 37 | 55 | 52 | 12 | 25 | | | | | | |
| | | | 30 | 10 | 42 | 15 | 50 | 40 | 27 | 22 | | | | | | |
| | | | 30 | 15 | 10 | 10 | 30 | 45 | 20 | 22 | | | | | | |
| | | | 59 5 0 | 58 45 0 | 58 50 0 | 58 20 0 | 58 52 0 | 58 15 0 | 60 0 0 | 60 5 0 | | | | | | |
| | | | 35 | 30 | 32 | 45 | 55 | 55 | 15 | 7 | | | | | | |
| | | | 25 | 57 | 27 | 30 | 37 | 45 | 5 | 20 | | | | | | |
| Moyennes... | Frey. | Petits arcs. N. repoussé. \| N. attiré. | 0 | 47 | 50 | 47 | 50 | 25 | 22 | 10 | | | | | | |
| | | | 22 | 40 | 27 | 45 | 45 | 40 | 22 | 30 | | | | | | |
| | | | 2 | 45 | 42 | 22 | 37 | 15 | 2 | 60 | | | | | | |
| | | | 59 30 0 | 59 20 0 | 58 35 0 | 58 17 0 | 58 30 0 | 58 60 0 | 60 45 0 | 60 30 0 | | | | | | |
| | | | 65 | 25 | 47 | 20 | 25 | 7 | 32 | 30 | | | | | | |
| | | | 30 | 35 | 37 | 22 | 45 | 30 | 30 | 30 | | | | | | |
| | | | 25 | 45 | 55 | 30 | 37 | 60 | 30 | 50 | | | | | | |
| | | | 45 | 50 | 45 | 20 | 32 | 62 | 30 | 45 | | | | | | |
| | | | 30 | 45 | 22 | 45 | 60 | 45 | 30 | 40 | | | | | | |
| | | | 59 37 0 | 59 17 0 | 58 45 0 | 58 20 0 | 58 45 0 | 58 22 0 | 60 20 0 | 60 15 0 | | | | | | |
| Lm. | 59 37 0 | Grands arcs. Petits arcs. N. repoussé. \| N. attiré. | 22 | 17 | 20 | 20 | 50 | 22 | 15 | 32 | | | | | | |
| | | | 37 | 15 | 37 | 25 | 60 | 25 | 25 | 17 | | | | | | |
| | | | 35 | 7 | 15 | 22 | 17 | 37 | 15 | 30 | | | | | | |
| | | | 45 | 37 | 42 | 20 | 52 | 70 | 15 | 25 | | | | | | |
| | | | 30 | 20 | 25 | 30 | 45 | 65 | 30 | 30 | | | | | | |
| | | | 59 37 0 | 59 55 0 | 58 45 0 | 58 40 0 | 58 50 0 | 58 40 0 | 60 10 0 | 60 22 0 | | | | | | |
| | | | 45 | 5 | 37 | 37 | 55 | 55 | 50 | 20 | | | | | | |
| | | | 30 | 15 | 35 | 30 | 30 | 55 | 30 | 22 | | | | | | |
| | | | 30 | 45 | 22 | 20 | 55 | 40 | 20 | 20 | | | | | | |
| | | | 15 | 37 | 25 | 25 | 55 | 45 | 35 | 20 | | | | | | |
| Moyennes... | Frey. | Petits arcs. N. repoussé. \| N. attiré. | 22 | 37 | 22 | 40 | 55 | 50 | 30 | 25 | | | | | | |
| | | | 59 30 0 | 59 25 0 | 58 45 0 | 58 37 0 | 58 45 0 | 58 20 0 | 60 0 0 | 60 15 0 | | | | | | |
| | | | 32 | 0 | 55 | 32 | 45 | 47 | 30 | 30 | | | | | | |
| | | | 25 | 30 | 25 | 15 | 30 | 45 | 45 | 5 | | | | | | |
| | | | 15 | 10 | 50 | 20 | 40 | 37 | 0 | 22 | | | | | | |
| | | | 15 | 7 | 50 | 30 | 40 | 52 | 30 | 17 | | | | | | |
| | | | 55 | 47 | 45 | 15 | 50 | 22 | 30 | 10 | | | | | | |
| | | | 59 38 52 | 59 28 17 | 58 35 22 | 58 29 32 | ..... | ..... | ..... | ..... |  |  |  |  |  |  |
|  |  |  | ..... | ..... | ..... | ..... | 58 39 20 | 58 42 40 | 60 16 22 | 60 22 20 | | | | | | |
| | | | 59 32 35 | 59 26 47 | 58 36 42 | 58 26 20 | ..... | ..... | ..... | ..... |  |  |  |  |  |  |
| Lm. | 59 32 35 | Grands arcs. Petits arcs. N. repoussé. \| N. attiré. | 58 43 40 | 58 42 12 | 58 42 12 | 60 26 | 7 | 60 25 | 5 | 5 | Avant pôles changés. 59° 3' 1" { 59° 16' 36" { 59° 17' 2" | | | | Inclinaison définitive. | |
| | | | | | | | | | | | | | | | | |
| Moyennes... | Lm. | Petits arcs. N. repoussé. \| N. attiré. | 59 34 16 | 59 17 26 | 59 17 26 | 60 26 | 7 | 60 25 | 5 | 5 | Après pôles changés. 59° 0' 36" { 59° 17' 26" { Inclinaison définitive. | | | | Inclinaison définitive. | |
| | | | | | | | | | | | | | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|---|------------------|--|--------------|-------------|-----------|---------------------------------|-----------|-------------|-----------|-------------|-----------|--|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| TRAVERSÉE DES MARIANNEZ A L'ILE OWAÏHI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | |
| Frey. | 1819. | Juillet, 26, de midi 10' à 1 ^h 45' soir. | Grands arcs. | 59°47' 0" | 59°47' 0" | 60°35' 0" | 60°45' 0" | 59° 2' 0" | 58°60' 0" | 58°32' 0" | 58°47' 0" | Points du cercle azimutal parallèles à la quille. | |
| | | | N. repoussé. | 50 | 47 | 25 | 32 | 7 | 70 | 40 | 55 | | |
| | | | N. attiré. | 42 | 35 | 22 | 45 | 7 | 70 | 30 | 52 | | |
| | | | | 42 | 45 | 22 | 45 | 15 | 55 | 40 | 42 | | |
| | | | | 50 | 35 | 25 | 30 | 7 | 72 | 30 | 45 | | |
| | | | | 20 | 25 | 32 | 40 | 10 | 55 | 30 | 40 | | |
| | | | | 59 22 0 | 59 35 0 | 59 57 0 | 59 62 0 | 59 30 0 | 59 5 0 | 58 50 0 | 58 55 0 | | |
| | | | | 12 | 35 | 57 | 65 | 27 | 15 | 25 | 40 | | |
| | | | | 25 | 27 | 52 | 52 | 5 | 15 | 37 | 50 | | |
| | | | | 15 | 37 | 62 | 60 | 30 | 5 | 20 | 40 | | |
| | | | | 15 | 35 | 62 | 50 | 5 | 10 | 40 | 50 | Mérid. { Face à l'O. 184°26' — 101°15' = 83°11' Div. gne. magn. { Face à l'E. 83 11 — 180 0 = 96 49 Div. d. | |
| | | | | 20 | 52 | 60 | 52 | 30 | 10 | 40 | 47 | | |
| Lm. | | Petits arcs. | N. repoussé. | 59 35 0 | 59 30 0 | 59 25 0 | 59 50 0 | 58 57 0 | 58 55 0 | 58 20 0 | 57 87 0 | Cap.... E. 11° 15' S. — N. 101° 15' E. | |
| | | | N. attiré. | 27 | 20 | 20 | 45 | 72 | 57 | 30 | 85 | | |
| | | | | 35 | 22 | 20 | 37 | 45 | 62 | 25 | 77 | | |
| | | | | 42 | 15 | 25 | 50 | 60 | 55 | 30 | 100 | | |
| | | | | 27 | 12 | 25 | 47 | 47 | 62 | 7 | 90 | | |
| | | | | 35 | 25 | 35 | 55 | 45 | 57 | 17 | 30 | | |
| | | | | 59 20 0 | 59 5 0 | 59 40 0 | 59 37 0 | 58 52 0 | 58 47 0 | 58 5 0 | 58 22 0 | Pointe élevée.... Sud. | |
| | | | | 22 | 5 | 47 | 37 | 45 | 52 | 22 | 10 | | |
| | | | | 17 | 2 | 50 | 42 | 50 | 72 | 0 | 22 | | |
| | | | | 10 | 17 | 50 | 35 | 42 | 40 | 12 | 10 | | |
| | | | | 20 | 7 | 30 | 37 | 45 | 37 | 22 | 10 | | |
| | | | | 20 | 7 | 30 | 42 | 65 | 37 | 22 | 25 | | |
| Moyennes... | | Grands arcs. | N. repoussé. | 59 20 0 | 59 35 0 | 59 42 0 | 59 72 0 | 58 60 0 | 58 72 0 | 58 20 0 | 58 55 0 | | |
| | | | N. attiré. | 0 | 32 | 45 | 60 | 67 | 55 | 10 | 47 | | |
| | | | | 25 | 30 | 35 | 67 | 65 | 72 | 17 | 60 | | |
| | | | | 5 | 40 | 45 | 47 | 52 | 57 | 32 | 67 | | |
| | | | | 2 | 40 | 40 | 57 | 70 | 55 | 40 | 50 | | |
| | | | | 30 | 35 | 50 | 47 | 55 | 75 | 15 | 40 | | |
| | | | | 59 35 0 | 59 35 0 | 59 35 0 | 60 15 0 | 58 57 0 | 58 55 0 | 58 20 0 | 58 37 0 | | |
| | | | | 37 | 30 | 45 | 7 | 55 | 55 | 20 | 45 | | |
| | | | | 25 | 30 | 57 | 5 | 45 | 55 | 30 | 35 | | |
| | | | | 22 | 40 | 60 | 15 | 65 | 55 | 32 | 22 | | |
| | | | | 32 | 37 | 47 | 10 | 62 | 55 | 40 | 40 | | |
| | | | | 40 | 32 | 55 | 5 | 62 | 60 | 42 | 10 | | |
| | | | | 59 12 0 | 59 15 0 | 59 25 0 | 59 40 0 | 58 50 0 | 58 45 0 | 58 20 0 | 58 40 0 | | |
| | | | | 10 | 7 | 25 | 42 | 57 | 52 | 20 | 37 | | |
| | | | | 17 | 5 | 15 | 60 | 57 | 60 | 25 | 55 | | |
| | | | | 10 | 5 | 22 | 65 | 52 | 52 | 25 | 45 | | |
| | | | | 20 | 10 | 25 | 52 | 55 | 50 | 15 | 35 | | |
| | | | | 17 | 5 | 42 | 70 | 55 | 60 | 15 | 35 | | |
| | | | | 59 ,2 0 | 59 25 0 | 59 37 0 | 59 55 0 | 58 40 0 | 58 40 0 | 58 10 0 | 58 22 0 | | |
| | | | | 7 | 2 | 40 | 65 | 45 | 55 | 25 | 35 | | |
| | | | | 22 | 7 | 42 | 52 | 55 | 52 | 30 | 30 | | |
| | | | | 20 | 2 | 35 | 55 | 50 | 55 | 15 | 30 | | |
| | | | | 7 | 5 | 45 | 45 | 40 | 47 | 15 | 15 | | |
| | | | | 22 | 22 | 30 | 67 | 40 | 55 | 30 | 35 | | |
| Frey. | | 59 27 55 | 59 25 55 | 59 52 50 | 60 0 17 | ..... | ..... | ..... | ..... | ..... | ..... | Avant pôles changés. 59°41'44" | |
| Moyennes... |  | ..... | ..... | ..... | ..... | 59 18 20 | 58 59 47 | 58 26 5 | 58 32 7 | ..... | ..... | 59°15'25" | |
| Lm. | | 59 18 17 | 59 21 55 | 59 39 7 | 59 59 47 | ..... | ..... | ..... | ..... | ..... | ..... | 59°12'11" | |
|  |  | ..... | ..... | ..... | ..... | 58 54 37 | 58 56 0 | 58 23 27 | 58 38 25 | ..... | ..... | Inclinaison défaite. | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | | | | | REMARQUES. | | | | | |
|--|--|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|-------------|------|--|--|--|--|--|--|--|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | | | | | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | | |
| TRAVERSÉE DES MARIANNE'S A L'ILE OWAÏHI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | | | | | | | |
| am. Aout, 4, de 10 ^h matin à 1 ^h soir. | Grands arcs. N. attiré. N. repoussé. | 40°77' 0" | 41°40' 0" | 40°40' 0" | 40°42' 5" | 40°60' 0" | 40°60' 0" | 42°20' 0" | 42°59' 0" | | | | | Points du cercle azimuthal parallèles à la quille. | | | | | |
| | | 60 | 5 | 45 | 45 | 80 | 42 | 20 | 40 | | | | | | | | | | |
| | | 50 | 0 | 55 | 45 | 57 | 10 | 20 | 60 | | | | | | | | | | |
| | | 77 | 2 | 52 | 52 | 85 | 50 | 20 | 40 | | | | | | | | | | |
| | | 75 | 5 | 57 | 57 | 85 | 50 | 20 | 45 | | | | | | | | | | |
| | | 50 | 40 | 57 | 67 | 52 | 65 | 25 | 57 | | | | | | | | | | |
| | | 40 37 0 | 40 35 0 | 40 40 0 | 40 57 0 | 40 45 0 | 40 30 0 | 42 30 0 | 42 20 0 | | | | | | | | | | |
| | | 45 | 70 | 37 | 17 | 70 | 25 | 30 | 10 | | | | | | | | | | |
| | | 45 | 35 | 45 | 32 | 70 | 55 | 22 | 22 | | | | | | | | | | |
| | | 67 | 82 | 50 | 37 | 50 | 52 | 22 | 30 | | | | | | | | | | |
| b. | Petits arcs. N. attiré. N. repoussé. | 35 | 32 | 35 | 47 | 60 | 62 | 30 | 37 | | | | | | | | | | |
| | | 57 | 55 | 40 | 45 | 70 | 47 | 30 | 30 | | | | | | | | | | |
| | | 40 45 0 | 40 42 0 | 39 70 0 | 40 30 0 | 40 45 0 | 40 50 0 | 42 25 0 | 42 45 0 | | | | | | | | | | |
| | | 37 | 45 | 80 | 45 | 45 | 55 | 12 | 40 | | | | | | | | | | |
| | | 32 | 35 | 57 | 40 | 47 | 45 | 17 | 35 | | | | | | | | | | |
| | | 45 | 30 | 75 | 45 | 57 | 45 | 30 | 60 | | | | | | | | | | |
| | | 42 | 37 | 75 | 40 | 55 | 52 | 15 | 50 | | | | | | | | | | |
| | | 25 | 30 | 67 | 30 | 62 | 50 | 15 | 45 | | | | | | | | | | |
| | | 40 25 0 | 40 20 0 | 40 5 0 | 46 35 0 | 40 55 0 | 40 55 0 | 42 12 0 | 42 20 0 | | | | | | | | | | |
| | | 25 | 20 | 22 | 40 | 25 | 70 | 25 | 20 | | | | | | | | | | |
| moyennes.. | Grands arcs. N. attiré. N. repoussé. | 30 | 30 | 12 | 45 | 25 | 60 | 10 | 40 | | | | | | | | | | |
| | | 27 | 25 | 10 | 42 | 55 | 52 | 35 | 27 | | | | | | | | | | |
| | | 10 | 32 | 10 | 55 | 50 | 50 | 20 | 25 | | | | | | | | | | |
| | | 12 | 25 | 20 | 40 | 50 | 65 | 30 | 35 | | | | | | | | | | |
| | | 41 30 0 | 40 100 0 | 40 20 0 | 40 20 0 | 40 55 0 | 40 35 0 | 42 30 0 | 42 50 0 | | | | | | | | | | |
| | | 60 | 90 | 20 | 15 | 70 | 45 | 15 | 45 | | | | | | | | | | |
| | | 60 | 90 | 15 | 10 | 60 | 55 | 15 | 30 | | | | | | | | | | |
| | | 55 | 20 | 30 | 20 | 60 | 60 | 25 | 40 | | | | | | | | | | |
| | | 60 | 30 | 30 | 20 | 60 | 45 | 40 | 50 | | | | | | | | | | |
| | | 30 | 35 | 15 | 20 | 55 | 30 | 15 | 40 | | | | | | | | | | |
| Frey. | Petits arcs. N. repoussé. N. attiré. | 40 45 0 | 40 35 0 | 40 30 0 | 49 75 0 | 40 55 0 | 40 50 0 | 42 30 0 | 42 30 0 | | | | | | | | | | |
| | | 45 | 20 | 35 | 80 | 50 | 45 | 60 | 20 | | | | | | | | | | |
| | | 55 | 25 | 15 | 105 | 45 | 60 | 30 | 30 | | | | | | | | | | |
| | | 50 | 5 | 30 | 70 | 55 | 60 | 55 | 30 | | | | | | | | | | |
| | | 50 | 35 | 30 | 50 | 60 | 55 | 40 | 25 | | | | | | | | | | |
| | | 40 | 10 | 35 | 65 | 55 | 50 | 40 | 25 | | | | | | | | | | |
| | | 39 30 0 | 40 05 0 | 40 10 0 | 40 75 0 | 40 40 0 | 40 50 0 | 42 20 0 | 41 65 0 | | | | | | | | | | |
| | | 35 | 20 | 0 | 70 | 30 | 70 | 15 | 60 | | | | | | | | | | |
| | | 60 | 0 | 0 | 70 | 35 | 40 | 15 | 60 | | | | | | | | | | |
| | | 69 | 10 | 0 | 65 | 30 | 60 | 15 | 50 | | | | | | | | | | |
| Db. | Petits arcs. N. repoussé. N. attiré. | 70 | 20 | 0 | 50 | 30 | 45 | 15 | 60 | | | | | | | | | | |
| | | 50 | 15 | 0 | 60 | 35 | 30 | 15 | 60 | | | | | | | | | | |
| | | 40 45 0 | 39 90 0 | 40 10 0 | 40 15 0 | 40 30 0 | 40 55 0 | 42 20 0 | 42 20 0 | | | | | | | | | | |
| | | 20 | 90 | 20 | 25 | 25 | 45 | 20 | 15 | | | | | | | | | | |
| | | 45 | 100 | 15 | 0 | 45 | 35 | 5 | 20 | | | | | | | | | | |
| | | 35 | 70 | 15 | 15 | 55 | 40 | 20 | 20 | | | | | | | | | | |
| | | 30 | 90 | 20 | 15 | 45 | 50 | 10 | 15 | | | | | | | | | | |
| | | 35 | 55 | 15 | 0 | 20 | 55 | 15 | 15 | | | | | | | | | | |
| | | 40 42 55 | 40 47 10 | 40 29 0 | 40 42 55 | | 40 56 27 | 40 50 5 | 42 22 17 | 42 37 10 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Avant pôles changés 40°40'30" { 41°11' 0" } 41°5' 46" Inclinaison définitive. | | | | | | | | | | | | | | | | | | | |
| Après pôles changés 41°41'30" { 41°0' 31" } | | | | | | | | | | | | | | | | | | | |
| Avant pôles changés 40°26' 2" { 41°0' 31" } | | | | | | | | | | | | | | | | | | | |
| Après pôles changés 41°35' 0" { 41°0' 31" } | | | | | | | | | | | | | | | | | | | |

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 0. | | | | | | | | | | REMARQUES. | |
|--|---|--|---------------------------------|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|---|------------|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHARGÉS PAR 40 FRICTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| BAIE DE KEYROUA, ILE OWAÏHI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | |
| Frey. | 1819. Août, 9, commencé à midi. (Voir pour la fin la page suivante.) | Grands arcs. | 39°45' 0" | 39°57' 0" | 38°40' 0" | 38°52' 0" | 43°35' 0" | 43°42' 0" | 43°10' 0" | 43°10' 0" | Animuts moyens où les observations ont été faites. | | |
| | | N. repoussé. \| N. attrié. | 57 | 62 | 37 | 57 | 30 | 47 | 10 | 10 | | | |
| | | | 55 | 62 | 40 | 57 | 32 | 42 | 7 | 12 | | | |
| | | | 47 | 60 | 37 | 52 | 32 | 40 | 7 | 7 | | | |
| | | | 45 | 62 | 32 | 55 | 35 | 47 | 10 | 12 | | | |
| | | | 45 | 55 | 35 | 57 | 30 | 45 | 10 | 12 | | | |
| | | Petits arcs. | 39 45 0 | 40 0 0 | 38 37 0 | 38 55 0 | 43 27 0 | 43 42 0 | 43 15 0 | 43 10 0 | | | |
| | | N. repoussé. \| N. attrié. | 50 | 2 | 35 | 55 | 30 | 42 | 7 | 5 | | | |
| | | | 50 | 0 | 35 | 52 | 25 | 42 | 12 | 7 | | | |
| | | | 50 | 2 | 30 | 50 | 25 | 42 | 5 | 7 | | | |
| | | | 45 | 0 | 32 | 50 | 27 | 42 | 12 | 7 | | | |
| | | | 47 | 0 | 32 | 52 | 30 | 42 | 7 | 5 | | | |
| | | Grands arcs. | 39 25 0 | 39 42 0 | 38 27 0 | 38 32 0 | 43 5 0 | 43 15 0 | 42 47 0 | 42 50 0 | Points où l'aig. est perpend... | | |
| | | N. repoussé. \| N. attrié. | 25 | 45 | 20 | 35 | 5 | 10 | 45 | 52 | | | |
| | | | 27 | 40 | 20 | 40 | 12 | 17 | 50 | 52 | | | |
| | | | 25 | 42 | 22 | 40 | 10 | 15 | 52 | 55 | | | |
| | | | 25 | 45 | 20 | 37 | 5 | 22 | 40 | 55 | | | |
| | | | 27 | 45 | 20 | 40 | 10 | 17 | 52 | 50 | | | |
| | | Petits arcs. | 39 32 0 | 39 37 0 | 38 17 0 | 38 37 0 | 43 5 0 | 43 10 0 | 42 42 0 | 42 45 0 | | | |
| | | N. repoussé. \| N. attrié. | 27 | 42 | 20 | 37 | 5 | 10 | 50 | 45 | | | |
| | | | 30 | 42 | 17 | 35 | 7 | 17 | 50 | 47 | | | |
| | | | 32 | 45 | 20 | 37 | 5 | 17 | 55 | 50 | | | |
| | | | 32 | 47 | 20 | 37 | 10 | 15 | 50 | 50 | | | |
| | | | 30 | 37 | 20 | 35 | 10 | 22 | 52 | 50 | | | |
| | | Grands arcs. | 39 45 0 | 39 55 0 | 38 35 0 | 38 52 0 | 43 30 0 | 43 47 0 | 43 7 0 | 43 5 0 | | | |
| | | N. repoussé. \| N. attrié. | 45 | 57 | 35 | 52 | 30 | 42 | 7 | 10 | | | |
| | | | 43 | 42 | 32 | 52 | 30 | 42 | 7 | 5 | | | |
| | | | 38 | 45 | 35 | 57 | 30 | 40 | 10 | 10 | | | |
| | | | 47 | 52 | 35 | 55 | 30 | 45 | 5 | 10 | | | |
| | | | 50 | 55 | 32 | 52 | 32 | 45 | 7 | 12 | | | |
| | | Petits arcs. | 39 40 0 | 39 60 0 | 38 32 0 | 38 50 0 | 43 30 0 | 43 42 0 | 43 5 0 | 43 5 0 | | | |
| | | N. repoussé. \| N. attrié. | 42 | 55 | 35 | 50 | 27 | 45 | 5 | 7 | | | |
| | | | 40 | 55 | 30 | 50 | 25 | 40 | 10 | 5 | | | |
| | | | 45 | 55 | 32 | 55 | 25 | 40 | 7 | 7 | | | |
| | | | 42 | 57 | 35 | 52 | 30 | 42 | 7 | 2 | | | |
| | | | 47 | 60 | 35 | 55 | 30 | 40 | 10 | 5 | | | |
| | | Grands arcs. | 39 30 0 | 39 40 0 | 38 20 0 | 38 37 0 | 43 10 0 | 43 20 0 | 42 50 0 | 42 55 0 | | | |
| | | N. repoussé. \| N. attrié. | 27 | 42 | 20 | 35 | 7 | 25 | 50 | 50 | | | |
| | | | 30 | 45 | 27 | 37 | 12 | 27 | 47 | 52 | | | |
| | | | 22 | 45 | 17 | 35 | 10 | 22 | 50 | 55 | | | |
| | | | 27 | 42 | 20 | 40 | 12 | 27 | 50 | 50 | | | |
| | | | 30 | 45 | 17 | 37 | 5 | 22 | 50 | 52 | | | |
| | | Petits arcs. | 39 32 0 | 39 37 0 | 38 20 0 | 38 35 0 | 43 12 0 | 43 20 0 | 42 50 0 | 42 50 0 | | | |
| | | N. repoussé. \| N. attrié. | 30 | 40 | 20 | 37 | 12 | 25 | 50 | 50 | | | |
| | | | 30 | 40 | 22 | 30 | 15 | 30 | 50 | 47 | | | |
| | | | 30 | 40 | 20 | 32 | 12 | 27 | 47 | 45 | | | |
| | | | 30 | 45 | 20 | 32 | 15 | 27 | 47 | 45 | | | |
| | | | 32 | 45 | 17 | 35 | 7 | 21 | 47 | 50 | | | |
| Moyennes.. | 1 ^{re} exp. { | 39 38 15 | 39 51 17 | 38 27 42 | 38 45 15 | ..... | 43 18 37 | 43 29 15 | 42 59 2 | 42 59 22 | Avant pôles changés 39°10'37" { 41°11' 6" } 41°10'53" | | |
| | 2 ^e exp. { | 39 36 25 | 39 48 5 | 38 26 47 | 38 43 55 | ..... | 43 19 55 | 43 33 30 | 42 58 7 | 42 58 30 | Après pôles changés 43°11'31" { 41°10'39" } Inclinaison définitive. | | |
| | | | | | | | | | | | Avant pôles changés 39° 8' 48" { 41° 10' 39" } 41° 10' 53" | | |
| | | | | | | | | | | | Après pôles changés 43° 12' 31" { 41° 10' 39" } | | |

| OBSERVATION. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 0. | | | | | | | | | | | | REMARQUES. | | | | | |
|---|---|---|---|---|---|---|---|---|---------------------------------------|--|---|------------------------|--------------------------------|-------------------------|--|--|--|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | | | |
| BAIE DE KEYROUA, ILE OWAÏHI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | | | | | | | |
| Dp. | 1819. Août, 9, fini à 3 ^h 40'. | Grands arcs. N. repousé. N. attiré. | 39°37' 0" 45 45 45 40 45 | 39°45' 0" 55 52 45 47 55 | 38°45' 0" 32 37 50 35 40 | 38°47' 0" 50 55 50 35 40 | 43°30' 0" 17 35 17 25 30 | 43°45' 0" 30 45 37 45 35 | 43 15' 0" 0 0 10 10 10 | 43° 0' 0" 0 0 5 5 0 | Aimants moyens où les observations ont été faites. | | | | | | | | |
| (Voyez la page précé- de nte et son N. B.) | | Petits arcs. N. repousé. N. attiré. | 39 45 0 30 30 30 32 35 | 39 52 0 52 60 52 60 55 | 38 45 0 45 42 40 45 35 | 38 47 0 50 45 45 45 47 | 43 30 0 30 35 30 30 30 | 43 30 0 35 45 45 45 30 | 43 0 0 0 0 15 30 30 | 43 5 0 0 0 0 0 0 | Face au S. 298° 58' | Face au N. 118° 46' | Points où l'aig. est perpend.. | | | | | | |
| | | | 39 30 0 35 30 30 30 30 | 39 55 0 47 50 45 52 52 | 38 20 0 20 15 15 27 25 | 38 30 0 30 30 30 30 32 | 43 0 0 0 15 0 5 15 | 43 15 0 30 30 30 12 20 | 42 35 0 30 30 30 25 37 | 42 30 0 0 0 0 37 37 | Mérid. { Face à l'O. $\frac{298^\circ 58' + 118^\circ 46'}{2} = 200^\circ 52'$ magn. { Face à l'E. $209^\circ 52' - 180^\circ 0' = 29^\circ 52'$ | | | | | | | | |
| | | | 39 30 0 30 30 30 30 20 | 39 40 0 42 35 35 42 40 | 38 15 0 15 15 20 15 15 | 38 35 0 30 45 30 35 40 | 43 0 0 0 0 0 15 | 43 5 0 0 0 12 25 25 | 42 35 0 30 35 35 45 45 | 42 45 0 0 35 50 45 45 | Observation faite à terre. | | | | | | | | |
| | | Petits arcs. N. repousé. N. attiré. | 39 45 0 45 40 40 45 37 | 39 45 0 45 40 52 45 57 | 38 40 0 30 30 30 30 25 | 38 37 0 45 45 35 37 30 | 43 27 0 20 15 25 30 30 | 43 30 0 37 30 30 30 35 | 43 5 0 0 0 2 0 | 43 0 0 0 0 5 0 | | | | | | | | | |
| | | | 39 30 0 35 30 32 52 47 | 39 57 0 42 45 45 45 57 | 38 30 0 45 30 30 25 20 | 38 50 0 45 50 35 37 30 | 43 30 0 17 30 30 20 15 | 43 30 0 30 30 30 40 35 | 43 0 0 0 0 0 0 | 43 2 0 2 0 0 2 | | | | | | | | | |
| | | | 39 30 0 35 30 27 25 30 | 39 55 0 50 45 47 45 42 | 38 30 0 15 15 30 30 15 | 38 30 0 45 30 5 3 30 | 43 15 0 0 7 15 5 15 | 43 20 0 20 15 22 17 20 | 42 30 0 37 30 45 35 45 | 42 45 0 40 40 55 45 45 | | | | | | | | | |
| | | | 39 25 0 27 30 30 30 25 | 39 40 0 37 40 35 35 35 | 38 30 0 30 15 30 40 20 | 38 35 0 35 30 45 40 30 | 43 5 0 0 5 15 2 15 | 43 15 0 0 30 30 25 32 | 42 37 0 25 30 45 57 45 | 42 37 0 35 45 45 57 45 | | | | | | | | | |
| | | | 39 34 32 1 ^{re} exp. | 39 48 32 | 38 29 5 | 38 39 42 ..... | ..... | 43 17 2 43 29 2 | 42 51 32 42 50 27 | ..... |  |  |  |  |  |  |  |  |  |
| Moyennes.. | 2 ^e exp. | 39 34 15 | 39 45 15 | 38 27 42 | 38 35 52 | 38 39 42 | 43 15 45 43 27 25 | 42 51 40 42 52 25 | | | Avant pôles changés $39^\circ 7' 58''$ Après pôles changés $43^\circ 7' 1''$ | $41^\circ 7' 30''$ | $41^\circ 6' 54''$ | Inclinaison définitive. | | | | | |
| | | | | | | | | | | Avant pôles changés $39^\circ 5' 46''$ Après pôles changés $43^\circ 6' 49''$ | $41^\circ 6' 17''$ | | | | | | | | |

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. | | | | | | | | | | REMARQUES. | |
|---|--|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|-----------|---|-------------------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| VILLAGE DE RAHEINA, ILE MOWI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | |
| Dp. | 1819. Août, 19, 11 ^h matin. | Grands arcs. | 41°15' 0" | 41°30' 0" | 42° 0' 0" | 42°20' 0" | 42° 0' 0" | 42° 0' 0" | 41°45' 0" | 41°60' 0" | Azimuts moyens où les observations ont été faites. | | |
| | | N. repoussé. \| N. attiré. | 15 | 30 | 0 | 15 | 5 | 0 | 45 | 45 | Face au N. | Face au S. | |
| | | | 20 | 30 | 0 | 15 | 0 | 0 | 30 | 60 | | | |
| | | | 15 | 30 | 0 | 15 | 0 | 0 | 45 | 45 | | | |
| | | | 20 | 30 | 25 | 30 | 0 | 0 | 30 | 50 | | | |
| | | | 15 | 30 | 12 | 30 | 0 | 0 | 45 | 45 | | | |
| | | Grands arcs. | 41 15 0 | 41 30 0 | 42 0 0 | 42 10 0 | 41 60 0 | 42 0 0 | 42 30 0 | 41 55 0 | Points où l'aig. est perpend... | | |
| | | N. repoussé. \| N. attiré. | 15 | 30 | 0 | 10 | 70 | 0 | 30 | 50 | | | |
| | | | 15 | 30 | 0 | 7 | 50 | 0 | 30 | 60 | | | |
| | | | 15 | 30 | 0 | 7 | 60 | 0 | 30 | 45 | | | |
| | | | 15 | 30 | 5 | 15 | 60 | 0 | 25 | 50 | | | |
| | | | 15 | 35 | 5 | 15 | 60 | 0 | 30 | 45 | | | |
| | | Petits arcs. | 41 0 0 | 41 15 0 | 41 30 0 | 41 45 0 | 41 30 0 | 41 45 0 | 41 0 0 | 41 30 0 | Mérid. { Face à l'O. $\frac{16^{\circ}45' + 197^{\circ}55'}{2} = 107^{\circ} 20'$ | | |
| | | N. repoussé. \| N. attiré. | 0 | 15 | 30 | 45 | 45 | 35 | 5 | 30 | | | |
| | | | 0 | 0 | 30 | 50 | 30 | 45 | 15 | 25 | | | |
| | | | 0 | 15 | 37 | 45 | 45 | 30 | 15 | 30 | | | |
| | | | 0 | 5 | 30 | 55 | 45 | 30 | 0 | 30 | | | |
| | | | 0 | 15 | 30 | 42 | 30 | 45 | 0 | 25 | | | |
| P. | | Grands arcs. | 41 0 0 | 41 5 0 | 41 35 0 | 41 45 0 | 41 35 0 | 41 35 0 | 41 5 0 | 41 30 0 | Il y a très-souvent ici 60", 70 et beaucoup plus encore de minutes, mais ce n'est point par erreur; c'est pour la facilité des calculs. | | |
| | | N. repoussé. \| N. attiré. | 0 | 15 | 35 | 45 | 30 | 32 | 5 | 30 | | | |
| | | | 0 | 10 | 30 | 45 | 35 | 35 | 0 | 30 | | | |
| | | | 0 | 15 | 35 | 45 | 35 | 45 | 5 | 30 | | | |
| | | | 0 | 12 | 30 | 50 | 30 | 45 | 0 | 30 | | | |
| | | | 0 | 15 | 45 | 60 | 37 | 35 | 5 | 30 | | | |
| | | Petits arcs. | 41 30 0 | 41 30 0 | 42 0 0 | 42 15 0 | 42 0 0 | 42 0 0 | 41 30 0 | 41 45 0 | Pointe élevée..... Sud. | | |
| | | N. repoussé. \| N. attiré. | 15 | 30 | 15 | 15 | 5 | 0 | 30 | 45 | | | |
| | | | 30 | 45 | 0 | 15 | 0 | 0 | 15 | 45 | | | |
| | | | 30 | 30 | 15 | 15 | 0 | 0 | 30 | 45 | | | |
| | | | 15 | 45 | 15 | 30 | 0 | 0 | 15 | 45 | | | |
| | | | 30 | 30 | 15 | 15 | 0 | 0 | 15 | 52 | | | |
| | | Grands arcs. | 41 30 0 | 41 30 0 | 42 30 0 | 42 30 0 | 42 0 0 | 41 60 0 | 41 30 0 | 41 45 0 | Il y a très-souvent ici 60", 70 et beaucoup plus encore de minutes, mais ce n'est point par erreur; c'est pour la facilité des calculs. | | |
| | | N. repoussé. \| N. attiré. | 30 | 30 | 30 | 30 | 0 | 60 | 30 | 45 | | | |
| | | | 30 | 45 | 15 | 30 | 0 | 60 | 22 | 45 | | | |
| | | | 30 | 45 | 30 | 45 | 0 | 65 | 30 | 45 | | | |
| | | | 30 | 30 | 30 | 45 | 0 | 50 | 30 | 45 | | | |
| | | | 30 | 30 | 35 | 45 | 0 | 50 | 30 | 45 | | | |
| | | Petits arcs. | 41 15 0 | 41 15 0 | 41 30 0 | 41 60 0 | 41 37 0 | 41 37 0 | 41 0 0 | 41 30 0 | Avant pôles changés.. 41°34'46" \| 41°36'57" \| 41°39'42" | | |
| | | N. repoussé. \| N. attiré. | 15 | 15 | 30 | 60 | 30 | 45 | 0 | 30 | | | |
| | | | 15 | 15 | 45 | 60 | 30 | 45 | 0 | 30 | | | |
| | | | 15 | 15 | 60 | 45 | 45 | 45 | 0 | 30 | | | |
| | | | 15 | 15 | 37 | 45 | 30 | 45 | 0 | 37 | | | |
| | | | 15 | 15 | 45 | 60 | 30 | 45 | 0 | 30 | | | |
| Moyennes... | Dp. | 41 7 55 | 41 20 55 | 41 48 30 | 42 1 42 | ..... | 41 48 0 | 42 49 2 | 41 19 35 | 41 40 0 | Après pôles changés.. 41 39 9 | 41 39' 42" | |
| | P. | 41 21 15 | 41 27 30 | 42 2 57 | 42 15 55 | ..... | 41 48 55 | 41 51 32 | 41 13 17 | 41 38 5 | Après pôles changés.. 41 42 46 | Inclinaison définitive. | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|---|--|--|---|--|--|--|--|--|--|---|--|------------|--|
| | | INDICES. | AVANT D'AVOIR CHARGÉ LES PÔLES. | | | | PÔLES CHARGÉS PAR 40 FRICTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| AU MOUILLAGE, DEVANT LE VILLAGE DE RAHEINA, ILE MOWI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | |
| Lm. | 1819. Août, 19, avant d'avoir changé les pôles. | Grands arcs. N. attiré. | 43° 62' 0" 62 52 25 62 60 | 43° 65' 0" 67 57 65 62 62 | 42° 25' (b) 25 25 15 15 15 | 42° 20' 0" 22 50 30 27 30 | 40° 62' (d) 50 50 25 45 35 | 40° 77' 0" 45 50 75 45 80 | 41° 40' (e) 10 7 17 17 30 | 41° 35' 0" 55 7 20 22 55 | Position géographique { Latit.. 20° 52' 7" N. de l'Urane, en rade. { Longit. 200° 57' 57" E. Paris. | | |
| | 20, après les avoir changés le matin avant midi. | N. repoussé. N. attiré. | 43 17 0 0 17 12 20 20 | 43 15 0 27 20 40 35 25 | 40 40 0 32 42 50 45 40 | 40 45 0 0 0 50 45 45 | 41 32 0 0 0 17 85 50 | 41 62 0 10 47 85 65 87 | 41° 27' (k) 40 35 17 40 32 | 41 47 0 32 45 17 40 45 | Direction parallèle à la quille, | | |
| | | Petits arcs. N. repoussé. N. attiré. | 42 50 0 45 50 55 50 62 | 42 57 0 55 55 50 52 60 | 41 0 0 5 10 12 22 0 | 41 20 0 20 17 27 32 41 55 (c) | 41 15 0 10 7 5 5 | 40 75 0 80 65 65 57 | 40 42 0 62 47 47 62 50 | 40 60 0 40 42 0 40 60 0 40 42 0 40 60 0 | Division de gauche. { Cap.... S. 33° 45' E. Division de droite. { Mer..... Belle. Roule..... Presque nuls. Tangage.... Nul. Observation.. Jugée assez bonne. | | |
| G. | Avant pôles changés | Grands arcs. N. attiré. | 43 30 (a) 30 27 27 32 30 | 43 30 0 27 30 25 32 30 | 41 40 0 45 35 37 42 35 | 41 30 0 40 40 50 55 50 | 42 30 0 50 50 50 50 50 | 42 50 0 50 50 35 30 32 | 40 30 0 30 30 35 30 32 | 40 30 Q 30 30 30 30 30 | (a) Ici le cap du vaisseau a été S. 26° 30' E. = N. 153° 30' E., et par conséquent l'alidade a dû être placée sur 184° 26' — 153° 30' = 30° 56'. Division de gauche. | | |
| Fb. | Après pôles changés | Grands arcs. N. repoussé. N. attiré. | 42 65 0 60 60 55 50 | 42 65 0 65 70 60 45 | 41 2 0 0 0 5 0 | 40 60 0 60 60 57 65 | 42 30 0 25 20 42 30 (f) 45 | 41 85 0 75 55 41 55 50 | 39 45 0 35 60 60 60 | 39 35 0 40 30 35 47 50 | (b) Cap S. 11° 15' O.; donc l'alidade en faisant face à l'E. = 184° 26' — 11° 15' = 173° 11'. Division de gauche. | | |
| Moyennes... | Lm. | Grands arcs. N. repoussé. N. attiré. | 42 80 0 65 50 70 65 70 | 43 15 0 10 10 15 20 15 | 41 35 0 40 35 40 35 32 | 41 30 0 40 40 40 45 5 | 40 5 (j) 5 7 5 7 5 | 40 0 0 0 5 0 10 5 | 39 30 0 70 60 60 60 55 | 39 35 0 60 60 60 60 60 | (c) Cap S. 50° 37' O.; face à l'E. 184° 26' — 50° 37' = 133° 49'. Division de gauche. | | |
| | G. Fb. | Petits arcs. N. repoussé. N. attiré. | 42 65 0 55 65 65 65 55 | 42 50 0 60 60 55 65 65 | 40 60 0 0 5 57 0 65 | 40 55 0 40 40 42 30 (f) 45 60 | 40 60 0 60 60 45 50 60 | 40 60 0 60 55 50 60 60 | 39 35 0 45 60 60 60 60 | 39 30 0 45 60 60 60 55 | (d) Cap S. 22° E. = N. 158° E.; face à l'O. 184° 26' — 158° = 26° 26'. Division de gauche. | | |
| | | | 43 12 42 43 16 45 41 33 15 41 42 3 | 43 16 45 41 20 8 41 17 30 | 41 33 15 41 20 8 41 17 30 | 41 42 3 40 56 30 41 9 37 | 41 42 3 40 56 30 41 9 37 | 41 8 55 41 8 55 41 18 0 | 41 8 55 41 8 55 41 18 0 | (f) Cap S. 17° E. = N. 163° E.; face à l'O. 184° 26' — 163° = 21° 30'. Division de gauche. | | | |
| | | | 43 9 0 43 9 50 41 20 8 41 17 30 | 43 9 50 41 20 8 41 17 30 | 41 20 8 41 17 30 41 17 30 | 41 17 30 41 17 30 41 17 30 | 41 17 30 41 17 30 41 17 30 | 41 17 30 41 17 30 41 17 30 | 41 17 30 41 17 30 41 17 30 | (g) Cap S. 11° 15' E. = N. 168° 45' E.; face à l'O. 184° 26' — 168° 45' = 15° 41'. Division de gauche. | | | |
| | | | 42 14 7 40 46 12 | 42 14 7 40 46 12 | 41 30 9 39 59 15 | (i) Cap S. 11° 15' O.; face à l'E. 184° 26' — 11° 15' = 173° 11'. Division de droite. | | | |
| | | | 42 14 7 40 46 12 | 42 14 7 40 46 12 | 41 30 9 39 59 15 | (l) Cap S. 56° 15' O.; face à l'E. 184° 26' — 56° 15' = 128° 11'. Division de droite. | | | |
| | | | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | NOTA. La moyenne de ces observations, faites au rdc, est d'une exactitude égale à celle des observations faites à terre (voyez l'observation suivante). | | | |
| | | | 42° 26' 11" 41° 47' 13" 41 8 16 | 42° 26' 11" 41° 47' 13" 41 8 16 | 42° 26' 11" 41° 47' 13" 41 8 16 | 42° 26' 11" 41° 47' 13" 41 8 16 | 42° 26' 11" 41° 47' 13" 41 8 16 | 42° 26' 11" 41° 47' 13" 41 8 16 | 42° 26' 11" 41° 47' 13" 41 8 16 | Avant pôles changés... 42° 26' 11" { 41° 47' 13" { 41° 48' 41" inclinaison Après pôles changés... 41 8 16 } 41 8 16 } 41 8 16 } définitive. | | | |
| | | | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | 42 26' 11" 41° 47' 13" 41 8 16 | Avant pôles changés... 42 14 7 } 41 30 9 } inclinaison Après pôles changés... 40 46 12 } 41 30 9 } définitive. | | | |

| OBSERVATEURS. DATES et . HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 4. | | | | | | | | | | | | REMARQUES. | | |
|---|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|---------------------------------|--|--|------|------------|--|--|
| | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | |
| | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | | |
| | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| VILLAGE DE RAHEINA, ILE MOWI (ARCHIPEL DES SANDWICH). | | | | | | | | | | | | | | | |
| Lm. 1819. Août, 22, avant midi. | N. attiré. | 40°30' 0" | 40°45' 0" | 40°22' 0" | 40°37' 0" | 42°52' 0" | 43°37' 0" | 42°55' 0" | 43°30' 0" | Azimuts moyens où les observations ont été faites. | | | | | |
| | | 7 | 47 | 22 | 37 | 52 | 35 | 55 | 22 | | | | | | |
| | | 12 | 7 | 15 | 32 | 42 | 30 | 52 | 37 | | | | | | |
| | | 5 | 10 | 20 | 32 | 47 | 30 | 55 | 17 | | | | | | |
| | | 12 | 40 | 12 | 12 | 52 | 25 | 50 | 15 | | | | | | |
| | | 10 | 27 | 15 | 7 | 40 | 17 | 55 | 55 | | | | | | |
| | | 25 | 42 | 7 | 30 | 25 | 12 | 50 | 15 | | | | | | |
| | | 2 | 40 | 12 | 32 | 37 | 35 | 50 | 12 | | | | | | |
| | | 5 | 27 | 7 | 27 | 50 | 15 | 52 | 35 | | | | | | |
| | Grands arcs. | 40 15 0 | 40 50 0 | 40 20 0 | 40 40 0 | 42 50 0 | 43 30 0 | 42 55 0 | 43 20 0 | | | | | | |
| | | 20 | 40 | 20 | 40 | 35 | 42 | 55 | 37 | | | | | | |
| | | 15 | 40 | 25 | 40 | 55 | 35 | 50 | 20 | | | | | | |
| | | 12 | 45 | 22 | 40 | 50 | 35 | 42 | 17 | | | | | | |
| | | 5 | 42 | 20 | 37 | 42 | 37 | 52 | 15 | | | | | | |
| | | 12 | 35 | 17 | 32 | 50 | 35 | 45 | 25 | | | | | | |
| | | 7 | 40 | 17 | 35 | 50 | 30 | 47 | 12 | | | | | | |
| | | 5 | 37 | 20 | 30 | 45 | 30 | 45 | 15 | | | | | | |
| | | 7 | 40 | 30 | 40 | 50 | 25 | 55 | 20 | | | | | | |
| | Petits arcs. | 40 7 0 | 40 7 0 | 40 0 0 | 40 20 0 | 42 40 0 | 43 12 0 | 42 10 0 | 42 40 0 | | | | | | |
| | | 39 47 | 15 | 2 | 20 | 35 | 15 | 10 | 37 | | | | | | |
| | | 50 | 30 | 5 | 22 | 25 | 7 | 12 | 35 | | | | | | |
| | | 55 | 39 45 | 5 | 15 | 25 | 20 | 17 | 67 | | | | | | |
| | | 40 20 | 40 17 | 0 | 30 | 30 | 15 | 32 | 52 | | | | | | |
| | | 39 55 | 15 | 10 | 30 | 35 | 17 | 37 | 62 | | | | | | |
| | | 45 | 15 | 5 | 27 | 40 | 20 | 30 | 62 | | | | | | |
| | | 45 | 20 | 10 | 30 | 30 | 25 | 35 | 62 | | | | | | |
| | | 55 | 15 | 15 | 30 | 35 | 30 | 32 | 62 | | | | | | |
| | Petits arcs. | 39 45 0 | 40 15 0 | 40 0 0 | 40 20 0 | 42 20 0 | 43 15 0 | 42 30 0 | 42 45 0 | | | | | | |
| | | 50 | 15 | 0 | 27 | 35 | 17 | 15 | 50 | | | | | | |
| | | 47 | 17 | 5 | 20 | 35 | 20 | 25 | 62 | | | | | | |
| | | 52 | 20 | 5 | 27 | 42 | 17 | 30 | 57 | | | | | | |
| | | 50 | 22 | 2 | 25 | 45 | 20 | 35 | 67 | | | | | | |
| | | 42 | 20 | 2 | 20 | 42 | 15 | 30 | 60 | | | | | | |
| | | 55 | 25 | 0 | 25 | 45 | 15 | 45 | 65 | | | | | | |
| | | 52 | 25 | 5 | 25 | 30 | 7 | 45 | 72 | | | | | | |
| | | 47 | 25 | 5 | 22 | 35 | 12 | 40 | 70 | | | | | | |
| Moyennes..... | | 40 1 48 | 40 26 35 | 40 11 5 | 40 28 12 | | 42 40 13 | 43 23 10 | 42 39 43 | 43 10 10 | Avant pôles changés 40°16'55" { 41°47'38" Inclin. définit. Après pôles changés 42 58 19 } | | | | |

| OBSERVATEURS. DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | REMARQUES. | |
|---|---|--|---|--------------------------|-------------------------|---------------------------------|-------------------------|-------------------------|---|---------------------------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'O. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | |
| Lm. | 1819. Sept. 11, de 10° 30' matin, à 1 ^h 30' soir. | Grands arcs. N. repoussé. N. attiré. | 26°15' 0" 26°37' 0" 26°35' 0" 27°15' 0" 27°72' 0" 27°77' 0" 28°67' 0" 29° 0' 0" | 20 87 50 15 22 47 50 15 | 30 12 22 17 37 52 62 45 | 25 10 42 12 57 80 65 40 | 32 15 45 20 20 42 75 40 | 12 35 47 15 55 47 45 40 | Points parallèles à la quille. | | |
| | | Petits arcs. N. repoussé. N. attiré. | 25 45 0 26 32 0 26 60 0 27 20 0 27 65 0 27 27 0 28 62 0 28 80 0 | 60 47 45 22 50 50 62 75 | 90 45 45 32 70 42 38 35 | 65 20 65 10 35 45 57 37 | 67 22 60 20 65 58 55 82 | 52 22 60 10 60 47 60 75 | Division de gauche. 184° 26' | Division de droite. 175° 34' | |
| | | | 25 82 0 26 20 0 26 45 0 26 30 0 27 50 0 27 55 0 28 17 0 28 62 0 | 107 35 40 50 37 52 15 62 | 75 20 30 52 55 45 42 65 | 57 22 22 65 30 50 72 50 | 82 25 35 67 40 77 60 67 | 60 15 30 40 45 55 75 55 | Cap Est. | | |
| | | | 26 45 0 26 25 0 27 10 0 27 0 0 27 30 0 27 60 0 28 25 0 28 45 0 | 15 40 10 17 62 40 20 55 | 45 20 20 0 30 52 15 30 | 30 35 20 17 82 50 15 20 | 30 45 10 35 65 62 5 47 | 25 35 10 7 47 50 15 55 | Mer..... Un peu houleuse Roulis..... Irréguliers et parfois assez, forts. Tangages... Idem. Observation. Jugeé médiocre. | | |
| Db. | | Grands arcs. N. repoussé. N. attiré. | 26 50 0 26 15 0 26 15 0 26 15 0 28 50 0 28 15 0 28 45 0 28 45 0 | 0 15 35 55 45 0 45 60 | 5 30 0 30 15 60 30 60 | 15 15 50 85 40 30 60 60 | 35 30 20 80 15 30 35 60 | 45 20 80 85 40 20 30 45 | | | |
| | | Petits arcs. N. repoussé. N. attiré. | 26 20 0 26 30 0 26 55 0 26 50 0 28 60 0 28 20 0 28 45 0 28 60 0 | 10 15 35 60 30 55 60 60 | 45 25 35 55 0 45 20 55 | 0 5 35 35 45 25 30 55 | 0 15 50 60 25 40 25 40 | 25 30 60 45 30 60 60 50 | | | |
| | | | 26 45 0 26 50 0 25 55 0 25 60 0 28 30 0 28 25 0 28 0 0 28 35 0 | 30 60 90 80 0 30 2 35 | 45 40 75 55 30 40 0 45 | 40 60 55 70 25 20 20 35 | 30 30 60 55 15 40 30 30 | 15 65 65 80 0 30 15 40 | | | |
| | | | 26 20 0 26 40 0 26 45 0 26 45 0 28 40 0 28 10 0 28 60 0 28 45 0 | 30 40 60 65 15 5 50 40 | 15 15 60 40 15 40 60 15 | 20 15 50 60 45 20 50 30 | 15 30 50 55 40 50 60 15 | 25 15 15 60 45 60 45 35 | | | |
| Moyennes... | Lm. | 26 18 35 26 30 2 26 50 45 27 9 30 27 49 12 27 52 35 28 44 55 29 4 2 | Avant pôles changés 26°42'13" { 27°32'26" { 27°33'0" { Inclinaison | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| | Db. | 26 24 10 26 29 22 26 32 55 26 42 30 28 28 57 28 32 5 28 36 32 28 43 45 | Après pôles changés 28 22 39 } 27 33 47 } définitive. | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |

| OBSERVATEUR. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | REMARQUES. | |
|---|--|------------|---|---|--|---|---|--|------------|--|
| | DATES et HEURES. | INDICES. | APRÈS PÔLES CHARGÉS. | PÔLES RECHANGÉS PAR 40 NOUVELLES FRICTIONS. | | | | | | |
| | | | | Face à l'O. | | Face à l'E. | | | | |
| | | | | Haut. | Bas. | Haut. | Bas. | | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | |
| Lm. | 1819. Sept. 30, de 10 ^h 40' matin à 4 ^h soir. | 17 22' 26" | 19 20' 0" 15 17 17 15 30 | 19 30' 0" 65 45 12 25 • 25 | 20 22' (c) 27 32 27 45 22 | 20 50' 0" 52 40 25 47 17 | Voyez le <i>Nota</i> de l'expérience précédente. | | | |
| | | | | | | | Les points azimuthaux où les expériences ont été faites étaient d'abord : | | | |
| | | | | | | | Face à l'O. =—116° 50' du cercle axial, puisque le cap de la corvette était alors O. 22° 30' S. | | | |
| | | | | | | | (c) O. 11° 15' S. = N. 101° 15' O. | | | |
| | | | | | | | Face à l'E. 175° 34' — (101° 15' + 180°) =— 105° 41'. | | | |
| G. | | | | | | | | | | |
| Moyennes ... | Lm. | 17 22' 26" | 19 14 40 | 19 35 7 | 20 30 20 | 20 20 50 | Avant pôles changés.. 17 22' 26" { 18 38' 50" | | | |
| | G. | 17 19 7 | 19 40 25 | 19 34 45 | 20 34 47 | 20 45 12 | Après pôles rechangés. 19 55 14 } 18 41' 52" Inclinaison définitive. | | | |
| | | | | | | | Avant pôles changés.. 17 19 7 { 18 44 54 | | | |
| | | | | | | | Après pôles rechangés. 20 10 42 } | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | | | |
|---|---|--|--|--|--|--|---------------------------------------|--------------------------------------|---------------------------------------|--|---|---|------------|--|--|--|
| | | | AVANT D'AVOIR CHARGÉ LES PÔLES. | | | | PÔLES CHARGÉS PAR 40 FRICTIONS. | | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | | | | |
| Lm. | 1819. Octobre 5, de 10 ^h 40' matin à 2 ^h 15' soir. | Grands arcs. N. attiré. N. repoussé. | 8°22' 0" 35 5 17 30 15 | 8°25' 0" 22 30 45 27 15 | 8°15' 0" 35 32 40 35 10 | 8°35' 0" 42 50 35 90 82 | 4°92' 0" 95 50 45 15 0 | 5° 7' 0" 7 10 5 15 0 | 6° 5' (a) 20 20 15 0 7 | 6°30' 0" 20 30 30 25 22 | Points du cercle axial parallèles à la quille. | | | | | |
| | | Petits arcs. N. attiré. N. repoussé. | 8 15 0 15 20 0 40 27 | 8 7 0 7 10 35 37 37 | 8 75 0 90 67 50 42 20 | 8 32 0 70 35 42 65 25 | 4 60 0 45 35 35 40 57 | 4 95 0 30 55 60 57 37 | 6 15 0 15 15 5 15 7 | 5 75 0 65 55 60 50 70 | Division de gauche. 184° 26' | | | | | |
| | | | 7 37 0 47 60 42 52 57 | 7 67 0 82 60 60 45 82 | 7 55 0 62 75 102 80 75 | 7 67 0 55 80 77 57 77 | 4 45 0 42 45 32 35 37 | 4 42 0 20 35 45 35 30 | 5 27 0 37 47 30 32 37 | 5 42 0 52 57 45 35 40 | Cap.... S. 11° 15' O. | | | | | |
| | | Petits arcs. N. repoussé. N. attiré. | 7 17 0 42 35 17 35 50 | 7 5 0 32 42 50 45 30 | 8 45 0 37 47 45 20 32 | 8 35 0 30 30 25 30 20 | 4 50 0 30 45 35 42 40 | 4 37 0 27 45 30 57 45 | 5 40 0 52 30 27 45 52 | 5 32 0 50 35 50 45 60 | Mérid. magn. { Face E. 184° 26' — 11° 15' = 173° 13' Face O. 173° 13' — 180° 15' = 6° 47' | | | | | |
| Fr. | | Grands arcs. N. attiré. N. repoussé. | 7 7 0 45 30 0 30 55 | 7 30 0 15 15 15 25 30 | 8 30 0 45 30 10 30 25 | 8 25 0 30 30 0 0 30 | 5 35 0 35 30 45 30 35 | 5 25 0 30 20 45 30 35 | 5 35 0 20 45 35 30 35 | 5 55 0 45 15 55 30 30 | Pointe élevée..... Sub. | | | | | |
| | | Petits arcs. N. repoussé. N. attiré. | 7 45 0 45 60 55 60 60 | 7 55 0 40 35 30 60 40 | 8 25 0 25 20 30 25 35 | 8 25 0 45 30 15 25 15 | 5 50 0 40 30 45 30 35 | 5 40 0 35 35 40 30 45 | 5 40 0 55 75 60 60 45 | 6 0 0 20 25 15 5 10 | Mer..... Assez belle. Roulis..... Faibles. Tangages.... Faibles. Observation... Bonne. | | | | | |
| | | Petits arcs. N. repoussé. N. attiré. | 7 45 0 65 25 60 60 60 | 7 30 0 30 30 20 30 40 | 8 30 0 30 20 10 25 10 | 8 30 0 15 30 0 25 30 | 5 5 0 10 30 0 10 | 5 0 0 5 0 0 0 10 | 5 30 0 30 30 45 45 45 | 5 25 0 15 30 30 45 35 | (c) Cap S. 22° E., donc: Position de l'alidade, face à l'E. 161° 56'. | | | | | |
| | | Petits arcs. N. repoussé. N. attiré. | 7 45 0 65 25 60 60 60 | 7 30 0 30 30 20 30 40 | 8 30 0 30 20 10 25 10 | 8 30 0 15 30 0 25 30 | 5 5 0 10 30 0 10 | 5 0 0 5 0 0 0 10 | 5 30 0 30 30 45 45 45 | 5 25 0 15 30 30 45 35 | | | | | | |
| Moyennes... | Lm. | | 8 0 30 | 8 7 15 | 8 33 17 | 8 29 42 | | 4 50 10 | 4 50 15 | 5 54 47 | 5 59 47 | Avant pôles changés. 8° 17' 41" { 0° 50' 43" Après pôles changés. 5 23 45 } 6° 48' 44" | | | | |
| | Fr. | | 7 34 52 | 7 29 22 | 8 23 45 | 8 21 27 | | 5 30 12 | 5 23 20 | 5 43 57 | 5 47 5 | Avant pôles changés. 7 58 22 { 6 86 45 Après pôles changés. 5 36 9 } Ind. détaillé. | | | | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|--------------|--|--|----------|---------------------------|----------|---------------------------------|----------|-------------|----------|--|--|----------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHARGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| Frey. | 1819. Octobre 6, de 10 ^h matin à 1 ^h 25 ^m soir. | 3°30' 0" | 3°57' 0" | 3°30' 0" | 3°35' 0" | 6°30' 0" | 6°30' 0" | 4°60' 0" | 5°10' 0" | Points du cercle azimuthal parallèles à la quille. | | | |
| | | 37 | 25 | 22 | 35 | 27 | 30 | 45 | 5 | | | | |
| | | 15 | 25 | 35 | 57 | 20 | 2 | 65 | 0 | | | | |
| | | 30 | 45 | 55 | 75 | 15 | 30 | 40 | 0 | | | | |
| | | 20 | 45 | 25 | 75 | 25 | 30 | 55 | 15 | | | | |
| | | 22 | 30 | 40 | 65 | 15 | 30 | 57 | 0 | | | | |
| | | Grands arcs. | | N. repoussé. \| N. attiré. | | Haut. | | Haut. | | Haut. | | | |
| | | 3 7 0 | 3 7 0 | 3 30 0 | 2 60 0 | 5 45 0 | 5 52 0 | 5 25 0 | 5 30 0 | | | | |
| | | 0 | 22 | 35 | 60 | 52 | 52 | 0 | 25 | | | | |
| | | 0 | 7 | 30 | 75 | 50 | 42 | 0 | 0 | | | | |
| | | 17 | 5 | 37 | 22 | 65 | 52 | 17 | 35 | | | | |
| | | 22 | 22 | 70 | 42 | 52 | 45 | 20 | 7 | | | | |
| | | 25 | 0 | 60 | 37 | 70 | 37 | 27 | 0 | | | | |
| | | Petits arcs. | | N. repoussé. \| N. attiré. | | Haut. | | Haut. | | Haut. | | | |
| | | 3 37 0 | 2 40 0 | 3 52 0 | 3 30 0 | 5 77 0 | 5 60 0 | 4 40 0 | 4 32 0 | | | | |
| | | 30 | 35 | 15 | 15 | 60 | 65 | 37 | 67 | | | | |
| | | 17 | 35 | 7 | 0 | 55 | 65 | 35 | 57 | | | | |
| | | 10 | 45 | 52 | 15 | 37 | 60 | 42 | 50 | | | | |
| | | 0 | 60 | 15 | 15 | 85 | 67 | 35 | 30 | | | | |
| | | 5 | 35 | 0 | 20 | 90 | 55 | 40 | 45 | | | | |
| Lm. | | Grands arcs. | | N. repoussé. \| N. attiré. | | Haut. | | Haut. | | Haut. | | | |
| | | 2 50 0 | 2 30 0 | 3 15 0 | 2 40 0 | 5 75 0 | 5 35 0 | 4 57 0 | 4 15 0 | | | | |
| | | 60 | 30 | 25 | 50 | 60 | 60 | 45 | 15 | | | | |
| | | 25 | 35 | 55 | 30 | 75 | 57 | 55 | 30 | | | | |
| | | 55 | 20 | 22 | 45 | 40 | 52 | 65 | 35 | | | | |
| | | 25 | 30 | 25 | 25 | 62 | 42 | 55 | 30 | | | | |
| | | 5 | 40 | 52 | 40 | 70 | 60 | 60 | 22 | | | | |
| | | Petits arcs. | | N. repoussé. \| N. attiré. | | Haut. | | Haut. | | Haut. | | | |
| | | 2 62 0 | 3 15 0 | 2 80 0 | 3 32 0 | 6 7 0 | 6 47 0 | 4 75 0 | 4 60 0 | | | | |
| | | 30 | 15 | 77 | 25 | 27 | 15 | 57 | 67 | | | | |
| | | 80 | 42 | 75 | 20 | 7 | 37 | 52 | 42 | | | | |
| | | 50 | 27 | 50 | 22 | 25 | 12 | 45 | 82 | | | | |
| | | 42 | 45 | 67 | 22 | 0 | 22 | 65 | 50 | | | | |
| | | 87 | 37 | 70 | 37 | 5 | 20 | 67 | 52 | | | | |
| | | Grands arcs. | | N. repoussé. \| N. attiré. | | Haut. | | Haut. | | Haut. | | | |
| | | 3 12 0 | 2 57 0 | 2 65 0 | 3 15 0 | 5 65 0 | 5 80 0 | 4 55 0 | 5 40 0 | | | | |
| | | 10 | 45 | 75 | 32 | 70 | 70 | 85 | 57 | | | | |
| | | 15 | 37 | 72 | 32 | 32 | 62 | 82 | 32 | | | | |
| | | 12 | 42 | 70 | 15 | 32 | 67 | 82 | 12 | | | | |
| | | 15 | 42 | 50 | 20 | 60 | 25 | 85 | 32 | | | | |
| | | 12 | 45 | 55 | 15 | 55 | 72 | 82 | 52 | | | | |
| | | Petits arcs. | | N. repoussé. \| N. attiré. | | Haut. | | Haut. | | Haut. | | | |
| | | 2 77 0 | 2 45 0 | 3 32 0 | 3 27 0 | 5 17 0 | 5 67 0 | 4 82 0 | 4 75 0 | | | | |
| | | 82 | 55 | 20 | 42 | 30 | 82 | 55 | 77 | | | | |
| | | 67 | 70 | 30 | 45 | 22 | 47 | 45 | 47 | | | | |
| | | 65 | 37 | 37 | 55 | 15 | 55 | 52 | 52 | | | | |
| | | 42 | 55 | 12 | 42 | 10 | 80 | 65 | 47 | | | | |
| | | 67 | 75 | 10 | 52 | 42 | 25 | 67 | 85 | | | | |
| | | Petits arcs. | | N. repoussé. \| N. attiré. | | Haut. | | Haut. | | Haut. | | | |
| | | 2 75 0 | 2 47 0 | 3 7 0 | 3 7 0 | 5 12 0 | 5 65 0 | 4 57 0 | 4 37 0 | | | | |
| | | 55 | 50 | 17 | 20 | 7 | 32 | 30 | 67 | | | | |
| | | 42 | 55 | 35 | 22 | 12 | 60 | 37 | 25 | | | | |
| | | 60 | 47 | 37 | 5 | 10 | 60 | 47 | 42 | | | | |
| | | 37 | 45 | 5 | 2 | 20 | 87 | 57 | 15 | | | | |
| | | 45 | 57 | 22 | 2 | 2 | 40 | 55 | 37 | | | | |
| Moyennes . . | Frey. | 3 740 | 3 012 | 3 3330 | 3 815 | ..... | 6 710 | 6 115 | 4 5542 | 4 537 | Avant pôles changés. 3°12' 24" { 4°20' 51" | | |
| | Lm. | 3 233 | 3 017 | 3 1435 | 3 2545 | ..... | 5 3920 | 6 612 | 5 027 | 5 415 | Après pôles changés. 5 2919 } 4°20' 2" | Incl. définit. | |
| | | | | | | | | | | Avant pôles changés. 3 1047 } 4 1911 | | | |
| | | | | | | | | | | Après pôles changés. 5 2734 } | | | |

| Division de gauche. | Division de droite. |
|---------------------|---------------------|
| 184° 26' | 175° 34' |

| OBSERVATEURS. | DATES et INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|---|---|--|----------|----------------|----------|---------------------------------|----------|---------------------------|----------|--------------------------------|-----------|--|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | |
| Frey. | 1819. Octobre 7, de midi 15 ^h à 4 ^h soir. | Arcs en plus. | | Arcs en moins. | | N. repoussé. \| N. attiré. | | N. repoussé. \| N. attiré. | | | | Points du cercle azimuthal parallèles à la quille. | |
| | | +0°10'0 | +0°55'0 | -0° 0'0 | +0°30'0 | -1°75'0 | +2°30'0 | -2°25'0 | +2°52'0 | | | | |
| | | - 22 | + 52 | - 0 | + 52 | - 22 | + 57 | - 30 | + 50 | | | | |
| | | - 27 | + 42 | - 22 | + 20 | - 60 | + 57 | - 15 | + 22 | | | | |
| | | - 0 | + 45 | + 15 | + 35 | - 65 | + 97 | - 15 | + 52 | | | | |
| | | - 0 | + 55 | - 22 | + 17 | - 72 | + 47 | - 20 | + 32 | | | | |
| | | - 25 | + 57 | + 5 | + 47 | - 67 | + 107 | 0 | + 42 | | | | |
| | | +0 7 0 | +0 50 0 | -0 5 0 | +1 17 0 | -1 35 0 | +2 57 0 | -1 60 0 | +2 30 0 | | | | |
| | | - 5 | + 55 | - 5 | + 2 | - 65 | + 47 | - 25 | + 45 | | | | |
| | | - 0 | + 65 | + 10 | + 15 | - 60 | + 30 | - 50 | + 50 | | | | |
| | | - 25 | + 70 | - 0 | + 15 | - 37 | + 45 | - 65 | + 37 | | | | |
| | | - 5 | + 70 | + 2 | + 5 | - 30 | + 40 | - 40 | + 20 | | | | |
| | | - 5 | + 30 | - 5 | + 15 | - 25 | + 40 | - 57 | + 35 | | | | |
| | | +0 50 0 | +0 45 0 | -0 30 0 | +0 27 0 | -2 45 0 | +2 52 0 | -2 70 0 | +2 82 0 | | | | |
| | | - 40 | + 40 | - 30 | + 25 | - 60 | + 60 | - 57 | + 75 | | | | |
| | | - 65 | + 45 | - 50 | + 20 | - 47 | + 60 | - 60 | + 50 | | | | |
| | | - 57 | + 30 | - 45 | + 17 | - 47 | + 40 | - 75 | + 70 | | | | |
| | | - 45 | + 55 | - 60 | + 27 | - 37 | + 45 | - 80 | + 62 | | | | |
| | | - 62 | + 42 | - 30 | + 22 | - 32 | + 47 | - 62 | + 90 | | | | |
| | | +0 5 0 | +0 60 0 | -0 35 0 | +0 65 0 | -1 42 0 | +2 60 0 | -1 60 0 | +2 35 0 | | | | |
| | | + 5 | + 57 | - 25 | + 72 | - 90 | + 75 | - 70 | + 50 | | | | |
| | | + 5 | + 52 | - 32 | + 67 | - 67 | + 30 | - 67 | + 37 | | | | |
| | | + 5 | + 60 | - 30 | + 55 | - 75 | + 52 | - 45 | + 67 | | | | |
| | | + 5 | + 42 | - 25 | + 55 | - 45 | + 77 | - 60 | + 52 | | | | |
| | | + 7 | + 35 | - 25 | + 50 | - 75 | + 25 | - 25 | + 75 | | | | |
| Lm. | | Arcs en plus. | | Arcs en moins. | | N. repoussé. \| N. attiré. | | N. repoussé. \| N. attiré. | | | | | |
| | | - 0 67 0 | +0 32 0 | - 0 92 0 | +0 30 0 | - 2 75 0 | +2 60 0 | - 2 32 0 | +2 82 0 | | | | |
| | | - 75 | + 40 | - 100 | + 30 | - 15 | + 30 | - 55 | + 60 | | | | |
| | | - 62 | + 37 | - 52 | + 47 | - 15 | + 32 | - 17 | + 60 | | | | |
| | | - 80 | + 60 | - 80 | + 55 | - 12 | + 60 | - 30 | + 75 | | | | |
| | | - 37 | + 65 | - 70 | + 52 | - 75 | + 67 | - 10 | + 30 | | | | |
| | | - 40 | + 30 | - 90 | + 57 | - 32 | + 52 | - 67 | + 45 | | | | |
| | | - 0 37 0 | +0 52 0 | - 0 82 0 | +1 35 0 | - 2 75 0 | +3 22 0 | - 2 60 0 | +1 37 0 | | | | |
| | | - 60 | + 40 | - 75 | + 22 | - 97 | + 17 | - 65 | + 52 | | | | |
| | | - 60 | + 40 | - 92 | + 10 | - 50 | + 5 | - 17 | + 80 | | | | |
| | | - 30 | + 40 | - 90 | + 15 | - 57 | + 0 | - 37 | + 62 | | | | |
| | | - 62 | + 67 | - 57 | + 25 | - 70 | + 10 | - 12 | + 60 | | | | |
| | | - 37 | + 55 | - 52 | + 17 | - 85 | + 22 | - 62 | + 65 | | | | |
| | | - 1 15 0 | +0 30 0 | - 0 22 0 | +0 17 0 | - 2 10 0 | +2 45 0 | - 1 10 0 | +2 20 0 | | | | |
| | | - 15 | + 35 | - 45 | + 20 | - 32 | + 40 | - 32 | + 15 | | | | |
| | | - 30 | + 45 | - 50 | + 0 | - 32 | + 52 | - 72 | + 20 | | | | |
| | | - 12 | + 30 | - 47 | + 2 | - 45 | + 50 | - 45 | + 17 | | | | |
| | | - 22 | + 52 | - 22 | + 15 | - 12 | + 52 | - 45 | + 22 | | | | |
| | | - 2 | + 37 | - 42 | + 25 | - 10 | + 57 | - 60 | + 20 | | | | |
| | | - 0 40 0 | +0 17 0 | - 0 65 0 | +0 17 0 | - 2 25 0 | +2 15 0 | - 2 57 0 | +1 25 0 | | | | |
| | | - 45 | + 15 | - 37 | + 10 | - 7 | + 50 | - 77 | + 47 | | | | |
| | | - 45 | + 32 | - 50 | + 25 | - 25 | + 30 | - 82 | + 7 | | | | |
| | | - 55 | + 22 | - 45 | + 0 | - 20 | + 22 | - 60 | + 35 | | | | |
| | | - 45 | + 22 | - 55 | + 27 | - 2 | + 35 | - 60 | + 17 | | | | |
| | | - 60 | + 17 | - 60 | + 15 | - 17 | + 37 | - 52 | + 45 | | | | |
| Moyennes ... | { Frey. | - 0 16 0 | +0 50 22 | - 0 18 30 | +0 47 10 | ..... | ..... | ..... | ..... | Avant pôles changés. 0°33' 0" | ..... |  |  |
| | { Lm. | - 0 58 2 | +0 38 0 | - 1 120 | +0 36 50 | ..... | ..... | ..... | ..... | Après pôles changés. 2°32' 12" | 1°32' 36" | | |
| | | | | | | - 2 755 | +2 53 12 | - 2 17 12 | +2 50 30 | | 1°36' 38" | Incl. définit. | |
| | | | | | | - 2 37 17 | +2 50 55 | - 2 31 30 | +2 11 35 | Avant pôles changés. 0 48 35 | 1 40 61 | | |
| | | | | | | | | | | Après pôles changés. 2 32 49 | | | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | |
|---|--|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|---|------|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | |
| | | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | |
| Frey. | 1819. Octobre 8, de 10 ^h matin à 2 ^h soir. | — 1°12'0 | + 1°40'0 | + 0° 5'0 | - 0° 0'0 | + 0°52'0 | - 0° 7'0 | - 0°52'0 | - 0°15'0 | Point parallèle à la quille. | |
| | | — 30 | + 30 | — 5 | — 20 | + 50 | — 30 | — 60 | — 0 | | |
| | | — 30 | + 25 | — 0 | — 22 | + 35 | — 25 | — 40 | — 0 | | |
| | | — 25 | + 17 | — 7 | — 5 | + 37 | — 30 | — 62 | — 0 | | |
| | | — 7 | + 52 | — 10 | — 7 | + 45 | — 7 | — 40 | — 10 | | |
| | | — 30 | + 30 | — 0 | — 17 | + 50 | — 5 | — 57 | — 35 | | |
| | | — 0 40 0 | + 0 52 0 | — 0 15 0 | + 0 30 0 | + 1 15 0 | — 0 52 0 | + 0 82 0 | — 1 0 0 | | |
| | | — 70 | + 52 | — 12 | — 37 | + 22 | — 52 | + 60 | — 15 | | |
| | | — 52 | + 42 | — 20 | — 12 | + 55 | — 60 | + 80 | — 10 | | |
| | | — 85 | + 55 | — 15 | — 30 | + 7 | — 57 | + 87 | — 17 | | |
| | | — 65 | + 55 | — 35 | — 35 | + 47 | — 35 | + 85 | — 0 | | |
| | | — 40 | + 35 | — 20 | — 30 | + 47 | — 60 | + 45 | — 27 | | |
| | | — 0 50 0 | + 0 22 0 | — 0 10 0 | — 0 30 0 | + 0 50 0 | — 0 70 0 | + 0 67 0 | — 0 65 0 | | |
| | | — 30 | + 20 | — 30 | — 5 | + 52 | — 45 | + 60 | — 40 | | |
| | | — 75 | + 55 | — 55 | + 17 | + 65 | — 72 | + 75 | — 30 | | |
| | | — 37 | + 35 | — 0 | — 32 | + 25 | — 37 | + 60 | — 60 | | |
| | | + 5 | + 50 | — 45 | — 7 | + 35 | — 60 | + 52 | — 30 | | |
| | | — 52 | + 60 | — 22 | — 27 | + 50 | — 85 | + 70 | — 65 | | |
| | | — 0 40 0 | — 0 32 0 | — 0 0 0 | — 0 10 0 | + 0 37 0 | — 1 10 0 | + 0 57 0 | — 0 42 0 | | |
| | | — 40 | + 10 | — 5 | — 10 | + 47 | — 30 | + 55 | — 30 | | |
| | | — 90 | + 37 | — 5 | — 20 | + 47 | — 10 | + 65 | — 60 | | |
| | | — 02 | + 47 | — 0 | — 0 | + 35 | — 5 | + 60 | — 40 | | |
| | | — 37 | + 62 | — 12 | — 10 | + 57 | — 20 | + 60 | — 60 | | |
| | | — 77 | + 10 | — 5 | — 10 | + 52 | — 5 | + 40 | — 60 | | |
| Lm. | | — 0 35 0 | + 0 60 0 | — 0 15 0 | — 0 0 0 | + 0 32 0 | — 1 35 0 | + 0 32 0 | — 0 60 0 | | |
| | | — 65 | + 25 | — 7 | — 17 | + 30 | — 7 | + 60 | — 30 | | |
| | | — 15 | + 52 | — 15 | — 22 | + 22 | — 20 | + 30 | — 55 | | |
| | | + 30 | + 2 | — 5 | — 7 | + 22 | — 22 | + 30 | — 35 | | |
| | | — 0 | + 7 | — 15 | — 7 | + 17 | — 20 | + 32 | — 57 | | |
| | | — 22 | + 5 | — 7 | — 37 | + 32 | — 0 | + 60 | — 27 | | |
| | | — 0 50 0 | + 0 10 0 | + 0 55 0 | — 1 15 0 | + 0 72 0 | — 1 75 0 | + 1 20 0 | — 1 30 0 | | |
| | | — 35 | + 27 | + 90 | — 52 | + 85 | — 45 | + 12 | — 7 | | |
| | | — 20 | + 30 | + 82 | — 27 | + 52 | — 45 | + 20 | — 5 | | |
| | | — 15 | + 22 | + 45 | — 17 | + 57 | — 25 | + 12 | — 22 | | |
| | | — 5 | + 45 | + 95 | — 0 | + 62 | — 30 | + 20 | — 7 | | |
| | | — 30 | + 25 | + 27 | — 47 | + 52 | — 17 | + 10 | — 30 | | |
| | | — 1 30 0 | + 0 60 0 | + 0 15 0 | — 0 30 0 | — 0 7 0 | — 0 15 0 | + 0 40 0 | — 0 27 0 | | |
| | | — 45 | + 42 | + 37 | — 10 | — 32 | + 22 | + 17 | — 40 | | |
| | | — 22 | + 20 | + 30 | — 10 | — 10 | — 20 | + 42 | — 37 | | |
| | | — 15 | + 27 | + 17 | — 17 | — 2 | — 47 | + 30 | — 40 | | |
| | | — 0 | + 20 | — 40 | — 25 | — 50 | + 15 | + 27 | — 17 | | |
| | | — 17 | + 30 | — 17 | — 20 | — 0 | + 7 | + 25 | — 30 | | |
| | | — 0 47 0 | + 0 30 0 | — 0 7 0 | — 0 5 0 | + 0 42 0 | — 0 57 0 | + 1 25 0 | — 0 87 0 | | |
| | | — 2 | + 20 | — 7 | — 27 | + 42 | — 65 | + 22 | — 67 | | |
| | | — 5 | + 20 | — 2 | — 67 | + 40 | — 75 | + 15 | — 37 | | |
| | | — 52 | + 22 | + 15 | — 20 | + 62 | — 60 | + 42 | — 67 | | |
| | | — 7 | + 30 | — 0 | — 60 | + 35 | — 75 | + 22 | — 80 | | |
| | | — 50 | + 25 | — 2 | — 52 | + 45 | — 30 | + 32 | — 50 | | |
| Moyennes . . | Frey.. | — 0 57 45 | + 0 38 42 | — 0 13 2 | + 0 0 57 | ..... | ..... | ..... | ..... | Avant pôles changés — 0°27'37" { + 0°19'30" | |
|  |  | ..... | ..... | ..... | ..... | + 0 57 15 | — 0 51 12 | + 0 35 22 | — 0 44 37 | Après pôles changés + 0 47 7 } + 0 23'17" | |
| | Lm.. | — 0 21 12 | + 0 27 20 | + 0 16 7 | — 0 38 12 | ..... | ..... | ..... | ..... | Avant pôles changés + 0 1 26 } + 0 27 5 } Inclinaison définitive. | |
|  |  | ..... | ..... | ..... | ..... | + 0 37 35 | — 1 0 52 | + 0 58 12 | — 0 54 20 | Après pôles changés + 0 52 44 } | |

VOYAGE AUTOUR DU MONDE.

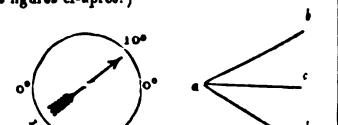
| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6. | | | | | | | | | | REMARQUES. | |
|--|---|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|----------|------|------------------------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | |
| Frey. | 1819. Octobre 9, de 10 ^h 20' matin à 3 ^h 30' soir. | Arcs en plus. N. repoussé. \| N. attiré. | -1° 22' 0 | +2° 15' 0 | -1° 2' 0 | +1° 15' 0 | +0° 0' | -0° 12' 0 | +0° 20' 0 | -0° 5' 0 | | Point parallèle à la quille. | |
| | | | -35 | + 15 | - 5 | + 52 | - 5 | - 7 | + 22 | - 0 | | | |
| | | | -42 | + 10 | - 30 | + 45 | + 5 | - 10 | + 5 | - 10 | | | |
| | | | -17 | + 25 | - 22 | + 55 | + 2 | - 10 | + 15 | - 12 | | | |
| | | | -30 | + 17 | - 10 | + 40 | + 0 | - 0 | + 32 | - 2 | | | |
| | | | -22 | + 0 | - 15 | + 55 | + 0 | - 2 | + 45 | - 0 | | | |
| | | | -1 30 0 | +1 30 0 | -1 0 0 | +1 40 0 | +0 15 0 | -0 15 0 | +0 20 0 | -0 30 0 | | | |
| | | | -15 | + 25 | - 7 | + 30 | + 25 | - 30 | + 37 | - 25 | | | |
| | | | -25 | + 40 | - 20 | + 30 | + 20 | - 15 | + 45 | - 37 | | | |
| | | | -10 | + 7 | - 5 | + 27 | + 5 | - 15 | + 30 | - 35 | | | |
| | | | -22 | + 42 | - 15 | + 10 | + 55 | - 30 | + 27 | - 45 | | | |
| | | | -30 | + 27 | - 20 | + 22 | + 35 | - 15 | + 30 | - 40 | | | |
| Lm. | Arcs en moins. N. repoussé. \| N. attiré. | -1 45 0 | +0 37 0 | -0 50 0 | +0 35 0 | -0 25 0 | -0 2 0 | +0 45 0 | -0 30 0 | | | | |
| | | -30 | + 45 | - 75 | + 47 | - 20 | + 7 | + 60 | - 30 | | | | |
| | | -52 | + 47 | - 80 | + 87 | - 20 | - 12 | + 55 | - 35 | | | | |
| | | -77 | + 52 | - 30 | + 70 | - 30 | + 0 | + 60 | - 25 | | | | |
| | | -30 | + 60 | - 45 | + 95 | - 30 | + 15 | + 82 | - 37 | | | | |
| | | -60 | + 57 | - 75 | + 80 | - 30 | - 15 | + 40 | - 25 | | | | |
| | | -0 45 0 | +0 42 0 | -0 65 0 | +1 5 0 | -0 5 0 | +0 5 0 | +0 60 0 | -0 90 0 | | | | |
| | | -65 | + 52 | - 70 | + 15 | + 7 | - 25 | + 67 | - 95 | | | | |
| | | -67 | + 55 | - 45 | + 25 | + 22 | - 7 | + 55 | - 100 | | | | |
| | | -55 | + 70 | - 45 | + 7 | + 17 | - 25 | + 70 | - 50 | | | | |
| | | -60 | + 77 | - 50 | + 20 | - 10 | - 17 | + 62 | - 65 | | | | |
| | | -52 | + 45 | - 45 | + 0 | + 10 | + 5 | + 65 | - 80 | | | | |
| Moyennes .. | Frey.. | -1 52 0 | +1 22 0 | -0 60 0 | +0 37 0 | -0 17 0 | +0 30 0 | +1 5 0 | -0 45 0 | | | | |
| | | -55 | + 22 | - 57 | + 57 | - 47 | + 37 | + 7 | - 67 | | | | |
| | Lm.. | -45 | + 42 | - 60 | + 32 | - 45 | + 32 | + 7 | - 60 | | | | |
| | | -52 | + 5 | - 60 | + 50 | - 37 | + 47 | + 0 | - 47 | | | | |
| | | -50 | + 37 | - 60 | + 40 | - 37 | + 27 | + 15 | - 52 | | | | |
| | | -45 | + 32 | - 52 | + 47 | - 50 | + 12 | + 20 | - 50 | | | | |
| | Arcs en plus. N. repoussé. \| N. attiré. | -1 2 0 | +0 45 0 | -0 47 0 | +0 65 0 | -0 45 0 | +0 37 0 | +0 45 0 | -1 30 0 | | | | |
| | | -30 | + 80 | - 67 | + 45 | - 50 | + 27 | + 37 | - 40 | | | | |
| | | -12 | + 62 | - 85 | + 52 | - 32 | + 45 | + 70 | - 45 | | | | |
| | | -7 | + 67 | - 52 | + 75 | - 50 | + 57 | + 67 | - 15 | | | | |
| | | -0 | + 45 | - 75 | + 47 | - 42 | + 47 | + 55 | - 27 | | | | |
| | | -17 | + 62 | - 60 | + 67 | - 35 | + 52 | + 62 | - 27 | | | | |
| | | -1 37 0 | +1 37 0 | -1 27 0 | +0 65 0 | -1 35 0 | +1 17 0 | +0 32 0 | -1 0 0 | | | | |
| | | -65 | + 87 | - 30 | + 57 | - 40 | + 22 | + 52 | - 32 | | | | |
| | | -32 | + 70 | - 25 | + 52 | - 37 | + 7 | + 42 | - 15 | | | | |
| | | -30 | + 22 | - 7 | + 70 | - 5 | + 22 | + 55 | - 15 | | | | |
| | | -7 | + 67 | - 7 | + 65 | - 25 | + 22 | + 42 | - 37 | | | | |
| | | -30 | + 82 | - 2 | + 47 | - 35 | + 45 | + 40 | - 30 | | | | |
| | Arcs en moins. N. repoussé. \| N. attiré. | -1 27 0 | +0 45 0 | -1 7 0 | +1 40 0 | -1 7 0 | +0 70 0 | +1 30 0 | -1 22 0 | | | | |
| | | -60 | + 40 | - 12 | + 7 | - 27 | + 60 | + 30 | - 15 | | | | |
| | | -37 | + 52 | - 10 | + 10 | - 25 | + 55 | + 37 | - 12 | | | | |
| | | -25 | + 55 | - 20 | + 30 | - 25 | + 60 | + 27 | - 32 | | | | |
| | | -17 | + 15 | - 2 | + 30 | - 10 | + 62 | + 30 | - 32 | | | | |
| | | -30 | + 45 | - 2 | + 22 | - 22 | + 60 | + 30 | - 15 | | | | |
| | | -1 24 5 | + 1 22 10 | - 1 4 25 | + 1 22 47 | ..... | ..... | ..... | ..... |  |  |  |  |
| Moyennes .. | Frey.. | ..... | ..... | ..... | + 0 1 47 | - 0 9 40 | + 0 43 42 | - 0 37 37 | | | | | |
| | | | | | | | | | | | | | |
| | Lm.. | -1 31 50 | + 1 32 25 | - 1 6 55 | + 1 1 12 | - 0 30 21 | + 0 20 15 | + 0 54 17 | - 0 57 11 | | | | |
| | | | | | | | | | | | | | |

Avant pôles changés — 1° 18' 22" ; — 1° 13' 11" ; — 1° 8' 4"
 Après pôles changés + 0 5 11 {
 Avant pôles changés — 1 18 5 { Iclination
 Après pôles changés + 0 15 8 } définitive.

| OBSERVATEURS. DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6. | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|---------------------------------|-------------------------|--|
| | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | Nord. | | Sud. | | |
| | | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | | |
| Frey. | 1819. Octobre 10, de 10 ^h 25 ^m matin à 2 ^h 30 ^m soir. | Arcs en plus. N. attiré. N. repoussé. | + 3°42'0 + 50 + 37 + 45 + 45 + 30 | - 3°30'0 — 30 — 30 — 25 — 37 — 17 | + 2°47'0 + 55 + 52 + 57 + 65 + 52 | - 2°45'0 — 55 — 45 — 60 — 65 — 57 | — 0°15'0 — 0 — 0 — 10 — 10 — 10 | + 0° 0'0 — 2 + 12 + 0 + 15 + 20 | + 1°30'0 + 0 + 5 + 55 + 70 + 45 | - 1°35'0 — 45 — 30 — 30 — 30 — 30 | Point parallèle à la quille. | | | |
| | | Arcs en moins. N. repoussé. N. attiré. | + 3 55 0 + 55 + 57 + 45 + 37 + 57 | - 3 20 0 — 30 — 10 — 30 — 25 — 15 | + 2 80 0 + 45 + 97 + 85 + 60 + 62 | - 3 15 0 — 35 — 20 — 30 — 30 — 7 | + 0 52 0 — 50 + 37 + 52 + 75 + 50 | - 0 45 0 — 45 — 35 — 50 — 30 — 30 | + 1 60 0 + 45 + 45 + 47 + 60 + 45 | - 1 70 0 — 27 — 0 — 25 — 25 — 15 | Division de gauche. 184° 26' | Division de droite. 175° 34' | | |
| | | | + 3 30 0 + 22 + 37 + 22 + 30 + 35 | - 2 60 0 — 65 — 55 — 50 — 52 — 60 | + 2 52 0 + 60 + 70 + 70 + 67 + 65 | - 2 60 0 — 35 — 45 — 75 — 75 — 45 | + 0 15 0 + 5 + 7 + 0 + 20 + 15 | - 0 45 0 — 60 — 30 — 42 — 20 — 32 | + 1 30 0 + 7 + 30 + 30 + 27 + 42 | - 1 40 0 — 15 — 45 — 30 — 5 — 7 | Cap..... Ouest. | | | |
| | | | + 2 22 0 + 0 + 17 + 30 + 0 + 35 | - 2 50 0 — 52 — 60 — 62 — 62 — 57 | + 3 45 0 + 10 + 45 + 22 + 15 + 40 | - 3 52 0 — 15 — 0 — 40 — 42 — 57 | + 0 37 0 — 50 — 65 — 45 — 27 — 65 | - 0 30 0 — 65 — 42 — 47 — 32 — 55 | + 1 40 0 + 30 + 30 + 27 + 45 + 42 | - 1 25 0 — 15 — 5 — 12 — 17 — 55 | Mérid. magn. { Face à l'O. 175° 34' — 90° = 85° 34' Face à l'E. 184 26 — 90 = 94 26 | | | |
| | | | + 45 0 + 60 + 42 + 65 + 40 + 80 | - 1 45 0 — 65 — 72 — 77 — 55 — 50 | + 2 70 0 + 57 + 45 + 42 + 50 + 65 | - 2 60 0 — 50 — 47 — 70 — 75 — 75 | + 0 20 0 + 0 + 10 — 15 — 20 — 12 | - 0 2 0 — 32 — 32 — 30 — 32 — 15 | + 0 72 0 + 47 + 75 + 50 + 67 + 50 | - 1 42 0 — 22 — 37 — 20 — 32 — 35 | Pointe élevée..... Nord. | | | |
| Lm. | | Arcs en plus. N. attiré. N. repoussé. | + 3 20 0 + 17 + 15 + 15 + 40 + 22 | - 3 47 0 — 7 — 52 — 42 — 60 — 42 | + 3 15 0 + 17 + 0 + 10 + 0 + 7 | - 3 5 0 — 20 — 15 — 10 — 30 — 2 | + 0 22 0 — 22 — 30 — 32 — 25 + 30 | - 0 37 0 — 50 — 62 — 60 — 32 — 52 | + 0 55 0 + 45 + 60 + 50 + 60 + 60 | - 1 30 0 — 17 — 30 — 27 — 20 — 30 | Mer..... Houleuse. Roulis.... Assez forts, mais moins irréguliers que la veille. | | | |
| | | Arcs en moins. N. repoussé. N. attiré. | + 1 75 0 + 50 + 65 + 37 + 90 + 45 | - 2 25 0 — 30 — 25 — 30 — 22 — 2 | + 3 15 0 + 15 + 17 + 15 + 12 + 20 | - 3 37 0 — 30 — 32 — 20 — 22 — 15 | - 0 45 0 — 40 — 37 — 52 — 50 — 27 | - 0 70 0 — 32 — 20 — 42 — 22 — 60 | + 0 45 0 + 67 + 60 + 60 + 72 + 60 | - 1 22 0 — 10 — 15 — 15 — 30 — 7 | Tangages... Peu forts. Observation.. Assez bonne. | | | |
| | | | + 2 10 0 + 17 + 17 + 10 + 15 + 17 | - 2 17 0 — 22 — 20 — 12 — 17 — 22 | + 3 25 0 + 25 + 12 + 17 + 40 + 30 | - 3 32 0 — 20 — 40 — 35 — 35 — 37 | + 0 15 0 + 7 — 30 + 5 + 10 + 22 | - 0 15 0 — 42 — 30 — 35 — 22 — 30 | + 1 45 0 + 22 + 20 + 22 + 30 + 35 | - 1 25 0 — 35 — 22 — 52 — 55 — 30 | | | | |
| Moyennes ... | Frey.. | | + 3 19 47 | - 3 41 0 | + 3 9 55 | - 3 11 52 ..... | ..... | ..... | ..... | ..... | Avant pôles changés + 3°13'30" Après pôles changés + 0 42 42 | + 1°58' 1" | | |
| | Lm.. | | + 2 22 52 | - 2 35 15 | + 3 10 52 | - 3 18 55 ..... | ..... | ..... | ..... | ..... | Avant pôles changés + 2 51 58 Après pôles changés + 0 48 6 | + 1 50 2 | Inclinaison définitive. | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6. | | | | | | | | | | REMARQUES. | |
|---|---|--|--|--|--|---|---|--|--|---|--|---|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | | | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | |
| Frey. | 1819. Octobre 11, de 10 ^h matin à 2 ^h soir. | — 0°47'0 — 15 — 30 — 47 — 20 — 30 | + 0°67'0 + 60 + 5 + 35 + 7 + 5 | + 0°70'0 + 35 + 45 + 70 + 55 + 45 | — 0°42'0 — 35 — 52 — 60 — 50 — 60 | + 2°47'0 + 60 + 52 + 70 + 42 + 70 | — 2°37'0 — 62 — 45 — 37 — 60 — 40 | + 2°45'0 + 60 + 57 + 60 + 50 + 77 | — 2°82'0 — 22 — 50 — 70 — 77 — 75 | Point parallèle à la quille. | | Division de gauche. Division de droite. | |
| | | — 0 20 0 — 20 — 30 — 20 — 12 — 12 | + 0 40 0 + 15 + 5 + 20 + 0 + 20 | + 0 75 0 + 87 + 75 + 52 + 65 + 60 | — 0 65 0 — 60 — 55 — 65 — 70 — 57 | + 3 70 + 5 + 10 + 5 + 25 + 15 | — 2 32 0 — 40 — 45 — 5 — 30 — 50 | + 3 10 0 + 15 + 37 + 12 + 5 + 40 | — 3 20 0 — 7 — 5 — 10 — 15 — 7 | Cap.... Ouest. | | Mérid. magn. { Face à l'O. 175° 34' — 90° = 85° 34' Face à l'E. 184° 26' — 90 = 94° 26' | |
| | | — 0 30 0 — 42 — 40 — 35 — 30 — 25 | + 0 47 0 + 32 + 7 + 22 + 0 + 50 | + 0 65 0 + 65 + 80 + 75 + 80 + 50 | — 0 65 0 — 65 — 77 — 67 — 57 — 65 | + 1 57 0 + 80 + 52 + 100 + 75 + 52 | — 2 40 0 — 10 — 15 — 17 — 45 — 40 | + 2 55 0 + 60 + 52 + 55 + 60 + 65 | — 2 75 0 — 70 — 90 — 60 — 60 — 55 | Pointe élevée..... Nord. | | Un peu houleuse. | |
| | | — 0 47 0 — 27 — 15 — 30 — 10 — 10 | + 0 15 0 + 10 + 45 + 15 + 32 + 55 | + 0 50 0 + 45 + 55 + 65 + 45 + 40 | — 0 65 0 — 80 — 80 — 90 — 92 — 50 | + 2 37 0 + 52 + 60 + 50 + 27 + 0 | — 3 20 0 — 25 — 40 — 7 — 30 — 32 | + 2 05 0 + 60 + 40 + 90 + 55 + 55 | — 3 42 0 — 0 — 30 — 37 — 35 — 10 | Roulis.... Assez forte et irrégulières. | | Tangages... Faibles. | |
| | | — 0 27 0 — 15 — 15 — 30 — 22 — 20 | + 0 15 0 + 25 + 30 + 52 + 30 + 20 | + 0 60 0 + 55 + 85 + 10 + 60 + 60 | — 0 60 0 — 40 — 30 — 60 — 70 — 60 | + 2 60 0 + 40 + 30 + 57 + 22 + 25 | — 2 70 0 — 70 — 100 — 90 + 60 + 30 | + 2 40 0 + 100 + 100 + 90 + 60 + 30 | — 3 25 0 — 0 — 45 — 30 — 30 — 37 | Observation.. Médiocre. | | Face Ouest. Face Est. | |
| Lm. | | — 0 27 0 — 15 — 15 — 30 — 22 — 20 | + 0 15 0 + 25 + 30 + 52 + 30 + 20 | + 0 60 0 + 55 + 85 + 10 + 60 + 60 | — 0 60 0 — 40 — 30 — 60 — 70 — 60 | + 2 30 0 + 65 + 30 + 57 + 22 + 25 | — 2 60 0 — 30 — 30 — 90 + 27 + 10 | + 2 15 0 + 30 + 15 + 15 + 60 + 10 | — 3 20 0 — 30 — 30 — 27 — 27 — 22 | Frey, 1 ^{re} résultat. | | AVANT PÔLES CHANGÉS. (Frey.) | |
| | | — 0 20 0 — 30 — 67 — 22 — 0 — 30 | + 0 40 0 + 40 + 32 + 20 + 50 + 35 | + 1 30 0 + 0 + 77 + 20 + 65 + 60 | — 1 30 0 — 0 — 77 — 20 — 65 — 60 | + 2 30 0 + 40 + 30 + 57 + 22 + 25 | — 2 60 0 — 30 — 30 — 90 + 27 + 10 | + 3 15 0 + 30 + 30 + 7 + 27 + 7 | — 3 20 0 — 30 — 30 — 27 — 27 — 22 | Lm., 2 ^{re} résultat. | | AVANT PÔLES CHANGÉS. (Lm.) | |
| | | — 0 20 0 — 67 — 35 — 0 — 60 — 7 | + 0 40 0 + 40 + 32 + 20 + 35 + 32 | + 1 30 0 + 0 + 77 + 20 + 65 + 60 | — 1 30 0 — 0 — 77 — 20 — 65 — 60 | + 2 30 0 + 40 + 30 + 57 + 22 + 25 | — 2 60 0 — 30 — 30 — 90 + 27 + 10 | + 3 15 0 + 30 + 30 + 7 + 27 + 7 | — 3 20 0 — 30 — 30 — 27 — 27 — 22 | Frey, 3 ^{re} résultat. | | APRÈS PÔLES CHANGÉS. (Frey.) (Lm.) | |
| | | — 0 65 0 — 62 — 30 — 60 — 37 — 65 | + 0 20 0 + 52 + 37 + 15 + 22 + 12 | + 0 67 0 + 60 + 40 + 62 + 65 + 62 | — 0 52 0 — 50 — 57 — 45 — 45 — 50 | + 1 10 0 + 37 + 17 + 40 + 57 + 50 | — 1 62 0 — 72 — 52 — 65 — 57 — 50 | + 2 67 0 + 47 + 45 + 62 + 60 + 25 | — 2 45 0 — 90 — 72 — 62 — 80 — 35 | Lm., 4 ^{re} résultat. | | Face à l'O. Face à l'E. Face à l'O. Face à l'E. | |
| | | — 0 65 0 — 52 — 37 — 60 — 37 — 65 | + 0 20 0 + 52 + 37 + 15 + 22 + 12 | + 0 67 0 + 60 + 40 + 62 + 65 + 62 | — 0 52 0 — 50 — 57 — 45 — 45 — 50 | + 1 10 0 + 37 + 17 + 40 + 57 + 50 | — 1 62 0 — 72 — 52 — 65 — 57 — 50 | + 2 67 0 + 47 + 45 + 62 + 60 + 25 | — 2 45 0 — 90 — 72 — 62 — 80 — 35 | N. B. Lorsque l'inclinaison est fort petite, on peut augmenter d'abord les nombres de 10°, et à la fin des calculs supprimer dans les angles ce qu'on avait compté de trop. (Voyez les figures ci-après.) | | Avant pôles changés — 0° 31' 5" { 1° 0' 2" Après pôles changés + 2 49 8 } 1° 7' 25" | |
| | | — 0 15 0 — 52 — 30 — 0 — 30 — 15 | + 0 70 0 + 37 + 45 + 25 + 52 + 37 | + 1 0 0 + 5 + 0 + 0 + 0 + 22 | — 1 0 0 — 5 — 0 — 0 — 0 — 0 | + 1 0 0 + 7 + 0 + 47 + 52 + 0 | — 1 60 0 — 67 — 37 — 47 — 52 — 02 | + 3 30 0 + 22 + 22 + 37 + 40 + 30 | — 3 37 0 — 30 — 25 — 30 — 35 — 25 | Frey, 4 ^{re} résultat. | | Avant pôles changés — 0 33 11 { 1 5 49 Indicatrice définitive. Après pôles changés + 2 44 49 } | |
| Moyennes .. | Frey.. | — 0 26 50 | + 0 24 57 | + 1 0 22 | — 1 3 30 ..... | ..... | ..... | ..... | ..... | Avant pôles changés — 0 31 5 { 1 0 2 " Indicatrice définitive. | | Avant pôles changés — 0 33 11 { 1 5 49 Indicatrice définitive. Après pôles changés + 2 44 49 } | |
| | Lm.. | — 0 2 10 | — 0 24 55 | + 0 40 17 | — 1 5 17 ..... | ..... | ..... | ..... | ..... | Avant pôles changés — 0 33 11 { 1 5 49 Indicatrice définitive. Après pôles changés + 2 44 49 } | | Avant pôles changés — 0 33 11 { 1 5 49 Indicatrice définitive. Après pôles changés + 2 44 49 } | |



| OBSERVATIONS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6. | | | | | | | | | |
|---|--|--|------------|--------------|------------|---------------------------------|------------|--------------|------------|--|------------------------|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | |
| | | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | |
| Frey. | 1819. Octobre 12, de 10° 30' matin à 3 ^h 30' soir. | + 1° 62' 0 | - 1° 15' 0 | + 3° 50' 0 | - 3° 30' 0 | - 1° 15' 0 | + 0° 65' 0 | + 1° 37' 0 | - 0° 65' 0 | Point parallèle à la quille. | |
| | | + 42 | - 15 | + 52 | - 25 | - 15 | + 52 | + 45 | - 50 | Division de gauche. | |
| | | + 65 | - 25 | + 20 | - 30 | - 30 | + 60 | + 45 | - 60 | Division de droite. | |
| | | + 75 | - 37 | + 52 | - 35 | - 15 | + 60 | + 37 | - 65 | | |
| | | + 45 | - 27 | + 30 | - 20 | - 30 | + 57 | + 30 | - 60 | | |
| | | + 40 | - 35 | + 45 | - 17 | - 32 | + 67 | + 45 | - 50 | | |
| | | Arcs en plus. | | N. attiré. | | Arcs en moins. | | N. repoussé. | | N. attiré. | |
| | | + 1 40 0 | - I 25 0 | + 4 30 0 | - 4 22 0 | - 0 55 0 | + 0 30 0 | + 1 45 0 | - 2 20 0 | Cap.... Ouest. | |
| | | + 65 | - 30 | + 5 | - 0 | - 67 | + 62 | + 60 | - 17 | Mérid. magn. { Face O. 175° 34' - 90° = 85° 34' Face E. 184° 26' - 90° = 94° 26' | |
| | | + 15 | - 22 | + 37 | - 52 | - 45 | + 40 | + 65 | - 7 | | |
| | | + 0 | - 20 | + 27 | - 0 | - 50 | + 60 | + 75 | - 20 | Pointe élevée.... Nord. | |
| | | + 30 | - 25 | + 5 | - 15 | - 50 | + 50 | + 65 | - 0 | Mer..... Houleuse. Roulis..... Forts et irréguliers, ce qui rend l'observation bien pénible. Tangages... Faibles. Observation.. Médiocre. | |
| | | + 25 | - 15 | + 30 | - 0 | - 57 | + 45 | + 60 | - 0 | | |
| Lm. | | + 1 22 0 | - 1 45 0 | + 3 30 0 | - 4 32 0 | - 0 60 0 | + 0 15 0 | + 1 45 0 | - 1 50 0 | Mer..... Houleuse. Roulis..... Forts et irréguliers, ce qui rend l'observation bien pénible. Tangages... Faibles. Observation.. Médiocre. | |
| | | + 60 | - 55 | + 30 | - 30 | - 50 | + 60 | + 32 | - 40 | | |
| | | + 45 | - 40 | + 0 | - 20 | - 70 | + 45 | + 42 | - 10 | | |
| | | + 45 | - 52 | + 55 | - 30 | - 60 | + 60 | + 52 | - 12 | | |
| | | + 50 | - 50 | + 50 | - 40 | - 67 | + 70 | + 20 | - 7 | | |
| | | + 60 | - 55 | + 45 | - 20 | - 45 | + 45 | + 15 | - 2 | | |
| | | + 1 60 0 | - I 77 0 | + 4 30 0 | - 4 15 0 | - 1 35 0 | + 0 35 0 | + 1 22 0 | - 1 30 0 | Mer..... Houleuse. Roulis..... Forts et irréguliers, ce qui rend l'observation bien pénible. Tangages... Faibles. Observation.. Médiocre. | |
| | | + 27 | - 90 | + 27 | - 20 | - 25 | + 0 | + 25 | - 30 | | |
| | | + 30 | - 50 | + 37 | - 5 | - 52 | + 65 | + 17 | - 45 | | |
| | | + 50 | - 15 | + 30 | - 15 | - 45 | + 45 | + 25 | - 45 | | |
| | | + 45 | - 80 | + 30 | - 15 | - 30 | + 37 | + 10 | - 30 | | |
| | | + 45 | - 15 | + 30 | - 15 | - 10 | + 47 | + 30 | - 45 | | |
| | | Arcs en plus. | | N. repoussé. | | Arcs en moins. | | N. attiré. | | N. attiré. | |
| | | + 0 37 0 | - 0 57 0 | + 3 30 0 | - 3 75 0 | - 0 15 0 | + 0 60 0 | + 1 45 0 | - 1 30 0 | Mer..... Houleuse. Roulis..... Forts et irréguliers, ce qui rend l'observation bien pénible. Tangages... Faibles. Observation.. Médiocre. | |
| | | + 40 | - 85 | + 22 | - 67 | - 10 | - 67 | + 45 | - 20 | | |
| | | + 67 | - 75 | + 62 | - 75 | - 10 | + 75 | + 45 | - 32 | | |
| | | + 37 | - 57 | + 50 | - 60 | - 15 | + 57 | + 35 | - 20 | | |
| | | + 47 | - 87 | + 52 | - 90 | - 15 | + 65 | + 45 | - 40 | | |
| | | + 45 | - 65 | + 62 | - 52 | - 22 | + 82 | + 27 | - 30 | | |
| | | + 1 20 0 | - 1 40 0 | + 4 42 0 | - 4 45 0 | - 0 60 0 | + 0 37 0 | + 1 32 0 | - 0 50 0 | Mer..... Houleuse. Roulis..... Forts et irréguliers, ce qui rend l'observation bien pénible. Tangages... Faibles. Observation.. Médiocre. | |
| | | + 15 | - 55 | + 15 | - 32 | - 50 | + 22 | + 25 | - 60 | | |
| | | + 35 | - 45 | + 22 | - 45 | - 65 | + 30 | + 15 | - 90 | | |
| | | + 20 | - 60 | + 37 | - 60 | - 60 | + 22 | + 35 | - 50 | | |
| | | + 22 | - 45 | + 15 | - 45 | - 60 | + 30 | + 30 | - 80 | | |
| | | + 25 | - 27 | + 37 | - 55 | - 67 | + 22 | + 35 | - 107 | | |
| | | + 0 45 0 | - 0 80 0 | + 3 45 0 | - 4 15 0 | - 0 30 0 | + 1 7 0 | + 1 7 0 | - 1 22 0 | Mer..... Houleuse. Roulis..... Forts et irréguliers, ce qui rend l'observation bien pénible. Tangages... Faibles. Observation.. Médiocre. | |
| | | + 70 | - 55 | + 45 | - 40 | - 37 | + 5 | + 7 | - 55 | | |
| | | + 30 | - 82 | + 45 | - 15 | - 55 | + 15 | + 20 | - 15 | | |
| | | + 65 | - 50 | + 45 | - 17 | - 90 | + 15 | + 12 | - 20 | | |
| | | + 52 | - 65 | + 45 | - 40 | - 60 | + 20 | + 0 | - 30 | | |
| | | + 60 | - 62 | + 52 | - 45 | - 75 | + 10 | + 30 | - 40 | | |
| | | + 1 40 0 | - 1 30 0 | + 4 0 0 | - 4 30 0 | - 1 30 0 | + 0 60 0 | + 0 67 0 | - 1 50 0 | Mer..... Houleuse. Roulis..... Forts et irréguliers, ce qui rend l'observation bien pénible. Tangages... Faibles. Observation.. Médiocre. | |
| | | + 30 | - 55 | + 15 | - 27 | - 30 | + 37 | + 67 | - 45 | | |
| | | + 22 | - 57 | + 7 | - 10 | - 22 | + 52 | + 65 | - 40 | | |
| | | + 30 | - 40 | + 0 | - 37 | - 35 | + 60 | + 50 | - 75 | | |
| | | + 35 | - 60 | + 15 | - 15 | - 15 | + 40 | + 35 | - 60 | | |
| | | + 15 | - 30 | + 0 | - 45 | - 15 | + 62 | + 60 | - 95 | | |
| Moyennes... | Frey. | + 1 43 27 | - 1 38 7 | + 4 22 | - 4 55 7 | ..... | ..... | ..... | ..... | Avant pôles changés. 2° 52' 29" | 1° 34' 46" |
|  |  | ..... | ..... | ..... | ..... | - 1 12 5 | + 0 48 50 | + 1 39 20 | - 1 29 47 | Après pôles changés. 0 17 3 | 1° 32' 54" |
| | Lm. | + 1 740 | - 1 26 50 | + 4 140 | - 4 28 12 | ..... | ..... | ..... | ..... | Avant pôles changés. 2 46 6 | 1 31 2 |
|  |  | ..... | ..... | ..... | ..... | - 0 54 17 | + 0 54 40 | + 1 19 45 | ..... | Après pôles changés. 0 15 59 | Indication définitive. |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | | | |
|---------------|--|--|--|--|--|--|--|---|--|--|--|--|---------------------------------|-----------|------------|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | |
| | | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | Nord. | Sud. | | | | | | |
| Frey. | 1819. Octobre 13, de 10 ^h 50' matin à 1 ^h 58' soir. | Arcs en plus. + 3° 10' 0 + 25 + 22 + 40 + 10 + 0 + 3 47 0 + 55 + 25 + 50 + 35 + 55 | Arcs en moins. — 3° 15' 0 — 27 — 27 — 15 — 15 — 20 — 3 40 0 — 37 — 32 — 52 — 50 — 45 | N. attiré. \| N. repoussé. + 3° 30' 0 + 60 + 60 + 40 + 35 + 37 + 4 30 0 + 20 + 17 + 27 + 15 + 30 | — 3° 7' 0 — 5 — 27 — 30 — 22 — 10 — 3 65 0 — 67 — 60 — 47 — 45 — 67 — 35 | + 0° 65' 0 + 57 + 65 + 45 + 40 + 50 + 0 67 0 + 60 + 60 + 72 + 50 + 52 | — 0° 30' 0 — 22 — 30 — 30 — 20 — 22 — 0 42 0 — 27 — 27 — 45 — 25 — 40 | + 0° 70' 0 + 65 + 60 + 52 + 67 + 60 + 0 27 0 + 30 + 20 + 30 + 7 + 30 | — 0° 35' 0 — 45 — 45 — 45 — 55 — 50 — 1 15 0 — 5 — 15 — 15 — 0 — 45 | Point parallèle à la quille. | Division de gauche. 184° 26' | Division de droite. 175° 34' | | | |
| | | | | + 2 57 0 + 60 + 60 + 67 + 37 + 60 | + 3 45 0 + 65 + 45 + 62 + 47 + 52 | + 3 45 0 + 60 + 60 + 60 + 45 + 52 | + 3 67 0 + 62 + 30 + 60 + 37 + 60 | + 0 42 0 + 12 + 37 + 0 + 0 + 15 | + 0 42 0 + 57 + 47 + 45 + 55 + 50 | + 0 75 0 + 75 + 50 + 57 + 60 + 55 | + 1 17 0 + 15 + 25 + 7 + 27 + 2 | Cap.... S. 22° 30' O. | | | |
| | | | | + 3 62 0 + 70 + 52 + 70 + 77 + 40 | + 3 45 0 + 67 + 40 + 30 + 60 + 45 | + 3 45 0 + 22 + 32 + 25 + 30 + 25 | + 3 32 0 + 22 + 32 + 45 + 40 + 42 | + 0 15 0 + 25 + 5 + 15 + 30 + 25 | + 0 60 0 + 32 + 52 + 35 + 55 + 35 | + 0 45 0 + 42 + 22 + 92 + 62 + 47 | + 0 50 0 + 85 + 92 + 87 + 70 + 90 | Mérid. magn. { Face E. 184° 26' + 22° 30' = 161° 56' Face O. 161° 56' - 180° = 18° 4' | | | |
| | | | | + 3 15 0 + 15 + 7 + 15 + 7 + 15 | + 3 10 0 + 30 + 27 + 15 + 15 + 2 | + 4 67 0 + 75 + 47 + 65 + 60 + 57 | + 4 15 0 — 5 — 15 — 22 — 7 — 17 | + 0 30 0 + 52 + 22 + 52 + 57 + 62 | + 0 55 0 — 80 — 57 — 75 — 77 — 50 | + 1 52 0 + 45 + 55 + 22 + 40 + 40 | + 1 30 0 + 45 + 30 + 45 + 35 + 30 | Mer..... Houleuse. Roulie..... Irréguliers et quelquefois forts. Tangages... Faibles. Observation.. Passable. | | | |
| Lm. | | | | + 2 50 0 + 65 + 45 + 45 + 52 + 65 | + 3 20 0 + 35 + 20 + 25 + 22 + 25 | + 4 22 0 + 20 + 30 + 17 + 5 + 30 | + 4 15 0 — 17 — 0 — 0 — 15 — 25 | + 0 75 0 + 57 + 75 + 57 + 35 + 37 | + 0 52 0 — 80 — 90 — 77 — 57 — 102 | + 1 45 0 + 25 + 45 + 40 + 45 + 32 | + 1 32 0 + 37 + 22 + 37 + 32 + 45 | | | | |
| | | | | + 2 45 0 + 72 + 47 + 77 + 60 + 55 | + 3 10 0 + 15 + 25 + 30 + 37 + 12 | + 3 40 0 + 52 + 45 + 35 + 45 + 30 | + 3 17 0 — 15 — 10 — 0 — 32 — 12 | + 0 30 0 + 55 + 30 + 55 + 57 + 50 | + 0 62 0 — 57 — 45 — 45 — 60 — 60 | + 0 52 0 + 67 + 55 + 60 + 67 + 47 | + 1 30 0 + 30 + 17 + 30 + 30 + 30 | | | | |
| | | | | + 3 15 0 + 25 + 27 + 20 + 5 + 30 | + 3 45 0 + 35 + 60 + 70 + 52 + 70 | + 4 2 0 + 12 + 12 + 12 + 15 + 0 | + 3 32 0 — 62 — 30 — 50 — 42 — 55 | + 1 37 0 + 30 + 32 + 27 + 40 + 40 | + 1 7 0 — 5 — 5 — 25 — 20 — 15 | + 0 67 0 + 40 + 45 + 50 + 65 + 50 | + 1 20 0 + 17 + 25 + 15 + 25 + 20 | | | | |
| | | | | Frey. | + 3 30 15 | + 3 25 57 | + 3 52 2 | + 3 41 37 | | | | | Avant pôles changés. 3° 37' 28" | | |
| Moyennes... | | | | | | | | | + 0 37 40 | - 0 15 35 | + 0 47 37 | - 0 55 17 | 2° 8' 15" | | |
| | | | | Lm. | + 3 6 25 | + 3 29 27 | + 4 18 7 | + 3 52 17 | | | + 0 59 52 | - 1 7 17 | + 1 17 57 | - 1 29 32 | 2° 17' 56" |
| | | | | | | | | | | | | | Avant pôles changés. 3 41 34 | | |
| | | | | | | | | | | | | | Après pôles changés. 1 13 40 | | |
| | | | | | | | | | | | | | Inclinaison définitive. | | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6. | | | | | | | | | | | |
|---|--|--|--|--|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|---|--|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | |
| Frey. | 1819. Octobre 15, de 10 ^h 32' matin à 1 ^h 15' soir. | 8°60' 0 57 72 40 42 60 | 8°52' 0" 10°62' 0" 10°70' 0" 12° 7' 0" 12°17' 0" 13°12' 0" 13°20' 0" 45 50 65 42 55 | Grands arcs. N. attiré. N. repoussé. | 10 35 0 25 35 55 27 52 45 | 10 47 0 27 45 27 15 | 12 55 0 47 50 50 35 37 | 12 52 0 22 47 57 52 57 | 13 20 0 25 5 5 27 10 | 14 30 0 15 15 12 32 12 10 | Point parallèle à la quille. | | |
| Lm. | | 8 15 0 15 12 17 15 15 12 | 8 30 0 10 52 0 10 15 0 11 47 0 12 10 0 13 30 0 13 10 0 30 35 12 37 52 45 12 45 | Petits arcs. N. attiré. N. repoussé. | 10 15 0 7 15 15 27 15 15 | 10 17 0 20 15 25 25 37 | 12 17 0 25 45 35 45 35 | 11 40 0 37 47 57 35 15 | 13 40 0 32 70 77 75 20 | 13 55 0 37 37 20 47 42 47 | Mérid. magn. { Face E. 184°26' — 22°30' = 161°56' Face O. 161°56' — 180° = -18°4' | | |
| Moyennes... | Frey. Lm. | 8 35 0 27 30 35 35 30 | 8 32 0 10 20 0 10 60 0 11 47 0 11 37 0 14 0 0 13 55 0 27 40 25 27 30 32 | Grands arcs. N. attiré. N. repoussé. | 10 20 0 15 22 30 30 15 | 10 62 0 20 25 25 15 | 11 45 0 30 42 45 45 | 12 30 0 30 20 25 37 | 14 10 0 15 7 10 0 | 13 50 0 55 55 55 55 | Mer..... Un peu houleuse. Roulis..... Modérément fort. Tangage... Idem. Observation.. Bonne. | | |
| | | 8 57 0 35 55 30 30 57 | 7 62 0 9 90 0 10 35 0 11 67 0 11 85 0 13 37 0 13 75 0 50 62 60 57 62 | Petits arcs. N. attiré. N. repoussé. | 9 90 0 15 42 30 40 102 | 10 35 0 15 42 30 30 30 | 11 67 0 72 70 55 70 | 11 85 0 67 55 57 70 | 13 37 0 57 52 57 45 45 | 13 75 0 75 57 75 55 67 | | | |
| | | 8 30 0 30 45 45 47 35 | 8 55 0 10 30 0 10 10 0 12 40 0 12 0 0 13 50 0 14 5 0 75 32 42 20 30 12 15 | Petits arcs. N. attiré. N. repoussé. | 10 30 0 15 22 12 30 12 | 10 10 0 27 25 22 30 27 | 12 40 0 20 0 17 20 15 | 12 0 0 7 0 17 20 15 | 13 50 0 70 52 52 60 50 | 14 5 0 10 5 0 0 5 | | | |
| | | 8 33 15 | 8 42 35 | 10 38 52 | 10 34 55 ..... | ..... | 12 16 25 | 12 16 32 | 13 29 50 | 13 38 25 | Avant pôles changés. 9°37'24") 11°16'21") Après pôles changés. 12 55 18) 11°18'3" | | |
| | | 8 37 32 | 8 40 25 | 10 39 2 | 10 40 20 ..... | ..... | 11 59 5 | 12 4 45 | 13 58 45 | 12 58 2 | Avant pôles changés. 9 39 20) 11 19 45 Après pôles changés. 13 0 9) Inclinaison définitive. | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | | | REMARQUES. | |
|---------------|--|--|---------------------------|-------------|-----------|-------------|-----------|---------------------------------|-----------|-------|------|-------|------|------------|---|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| Lm. | 1819. Octobre 18, de 10 ^h 20' à 11 ^h 37' matin. | 19°32' 0" | 19°20' 0" | 20°30' 0" | 20°35' 0" | 23°22' 0" | 23° 7' 0" | 24°25' 0" | 24°27' 0" | | | | | | Point parallèle à la quille. |
| | | Grands arcs. | N. repoussé. \| N. attiré. | | | | | | | | | | | | Division de gauche. \| Division de droite. |
| | | 19 45 0 | 19 30 0 | 20 37 0 | 20 50 0 | 22 75 0 | 23 37 0 | 23 65 0 | 23 60 0 | | | | | | 184° 26' \| 175° 34' |
| | | 45 | 30 | 25 | 60 | 97 | 52 | 62 | 43 | | | | | | Cap.... S. 22° 30' O. |
| | | 50 | 30 | 47 | 20 | 92 | 37 | 75 | 35 | | | | | | Mérid. magn. { Face à l'E. 184° 26' — 22° 30' = 161° 56' Face à l'O. 161 56 — 180 0 = -184 |
| | | 47 | 55 | 22 | 55 | 85 | 30 | 52 | 47 | | | | | | Pointe élevée.... Nord. |
| | | 52 | 40 | 50 | 22 | 75 | 20 | 45 | 40 | | | | | | Mer..... Belle. Roulis..... Faibles. Tangages... Idem. Observation.. Bonne. |
| | | 50 | 35 | 22 | 17 | 57 | 30 | 57 | 65 | | | | | | |
| | | 19 32 0 | 19 22 0 | 20 37 0 | 20 60 0 | 22 40 0 | 22 35 0 | 23 40 0 | 23 35 0 | | | | | | |
| | | 7 | 0 | 27 | 60 | 40 | 40 | 30 | 22 | | | | | | |
| | | 22 | 12 | 55 | 45 | 42 | 47 | 17 | 12 | | | | | | |
| | | 25 | 22 | 32 | 62 | 35 | 50 | 27 | 35 | | | | | | |
| | | 10 | 20 | 42 | 40 | 40 | 55 | 15 | 17 | | | | | | |
| | | 20 | 15 | 27 | 55 | 37 | 37 | 15 | 25 | | | | | | |
| | | 19 47 0 | 19 50 0 | 19 55 0 | 20 22 0 | 23 2 0 | 23 22 0 | 23 15 0 | 23 37 0 | | | | | | |
| | | 25 | 55 | 60 | 10 | 7 | 40 | 7 | 25 | | | | | | |
| | | 45 | 50 | 85 | 22 | 15 | 15 | 17 | 17 | | | | | | |
| | | 37 | 52 | 85 | 27 | 27 | 30 | 7 | 25 | | | | | | |
| | | 57 | 45 | 80 | 25 | 10 | 20 | 7 | 5 | | | | | | |
| | | 50 | 45 | 55 | 15 | 7 | 15 | 0 | 5 | | | | | | |
| G. | | Grands arcs. | N. repoussé. \| N. attiré. | | | | | | | | | | | | |
| | | 19 45 0 | 19 40 9 | 20 25 0 | 20 65 0 | 22 60 0 | 23 15 0 | 23 40 0 | 23 45 0 | | | | | | |
| | | 45 | 35 | 25 | 50 | 60 | 10 | 35 | 50 | | | | | | |
| | | 45 | 30 | 15 | 65 | 50 | 15 | 25 | 45 | | | | | | |
| | | 45 | 45 | 15 | 60 | 60 | 0 | 30 | 45 | | | | | | |
| | | 45 | 55 | 20 | 55 | 50 | 5 | 30 | 50 | | | | | | |
| | | 45 | 45 | 5 | 35 | 55 | 15 | 40 | 50 | | | | | | |
| | | 20 15 0 | 20 15 0 | 20 50 0 | 20 50 0 | 22 45 0 | 22 60 0 | 23 60 0 | 23 45 0 | | | | | | |
| | | 15 | 25 | 50 | 20 | 40 | 45 | 75 | 55 | | | | | | |
| | | 15 | 50 | 50 | 55 | 50 | 45 | 60 | 60 | | | | | | |
| | | 10 | 25 | 60 | 30 | 45 | 45 | 55 | 60 | | | | | | |
| | | 20 | 35 | 50 | 30 | 35 | 40 | 75 | 60 | | | | | | |
| | | 30 | 55 | 50 | 20 | 45 | 45 | 45 | 55 | | | | | | |
| | | 19 25 0 | 19 20 0 | 20 40 0 | 20 45 0 | 22 40 0 | 23 15 0 | 23 40 0 | 23 80 0 | | | | | | |
| | | 45 | 55 | 45 | 30 | 35 | 0 | 40 | 45 | | | | | | |
| | | 55 | 35 | 40 | 60 | 55 | 15 | 30 | 35 | | | | | | |
| | | 70 | 65 | 50 | 45 | 45 | 10 | 25 | 60 | | | | | | |
| | | 65 | 65 | 50 | 50 | 30 | 15 | 55 | 80 | | | | | | |
| | | 65 | 65 | 55 | 35 | 40 | 10 | 55 | 75 | | | | | | |
| | | 19 35 0 | 19 35 0 | 20 50 0 | 20 65 0 | 22 85 0 | 23 0 0 | 23 10 0 | 23 35 0 | | | | | | |
| | | 60 | 40 | 35 | 60 | 90 | 35 | 20 | 25 | | | | | | |
| | | 65 | 60 | 30 | 60 | 55 | 0 | 15 | 20 | | | | | | |
| | | 55 | 45 | 80 | 65 | 70 | 25 | 0 | 35 | | | | | | |
| | | 75 | 35 | 55 | 50 | 60 | 10 | 15 | 40 | | | | | | |
| | | 75 | 60 | 65 | 65 | 65 | 30 | 5 | 25 | | | | | | |
| Moyennes... { | Lm. | 19 33 35 | 19 33 0 | 20 26 57 | 20 37 10 | ..... | ..... | ..... | ..... |  |  |  |  |  | Avant pôles changés. 20° 2' 41" \| 21° 44' 31" { 21° 45' 1" |
| | G. | 19 59 22 | 19 58 7 | 20 42 5 | 20 48 32 | ..... | ..... | ..... | ..... |  |  |  |  |  | Après pôles changés. 23 26 21 \| 23 42 50 23 42 10 |

Avant pôles changés. 20° 2' 41" | 21° 44' 31" { 21° 45' 1"
Après pôles changés. 23 26 21 | 23 42 50 23 42 10
Inclinaison définitive.

Avant pôles changés. 20 22 2 | 21 51 34
Après pôles changés. 23 21 6 |

| OBSERVATIONS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6. | | | | | | | | | | REMARQUES. | |
|---|--|---|---|---|---|---|---|---|---|---|--|---|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | |
| Frey. | 1819, Octobre 20, de 10 ^h 50' matin à 3 ^h 45' soir. | Grands arcs. 30 5 22 37 20 | N. attiré. 25°32' 0" 25°35' 0" 26°25' 0" 25°55' 0" 25 20 0 | Grands arcs. 25 37 0 10 20 17 15 15 | N. repoussé. 25 45 0 42 40 37 32 35 | Grands arcs. 25 32 0 30 45 40 35 40 | N. attiré. 24 17 0 10 15 0 5 7 | Grands arcs. 24 25 0 12 35 45 50 42 | N. repoussé. 23 75 0 75 57 47 55 60 | Grands arcs. 24°17' 0" 25 20 25 25 15 | Points du cercle azimuthal parallèles à la quille. | | |
| | | Petits arcs. 20 10 0 10 27 15 30 15 | N. attiré. 25 25 0 30 27 17 20 32 | Petits arcs. 25 55 0 60 60 52 65 50 | N. repoussé. 25 60 0 50 45 52 60 45 | Petits arcs. 23 55 0 62 65 52 45 62 | N. attiré. 24 7 0 12 15 17 15 5 | Petits arcs. 23 40 0 40 37 37 40 32 | N. repoussé. 23 32 0 27 30 40 32 37 | Petits arcs. 24 10 0 40 37 25 22 17 | Division de gauche. 184° 26' | Division de droite. 175° 34' | |
| | | Petits arcs. 25 30 0 25 32 25 35 25 | N. attiré. 25 45 0 12 12 37 40 42 | Petits arcs. 26 67 0 60 60 45 60 60 | N. repoussé. 25 67 0 75 87 47 57 60 | Petits arcs. 23 47 0 50 57 52 55 65 | N. attiré. 23 50 0 55 60 70 72 65 | Petits arcs. 24 10 0 15 15 25 17 17 | Mérid. mago. { Face à l'E. 184° 26' — 22° 30' = 161° 56' Face à l'O. 161 56 — 180 0 = -18 4 | Pointe levée.... NORD. | | | |
| | | Petits arcs. 25 72 0 75 52 65 65 52 | N. attiré. 25 75 0 80 52 75 47 50 | Petits arcs. 26 35 0 22 25 35 25 22 | N. repoussé. 26 57 0 40 47 55 60 37 | Petits arcs. 23 90 0 57 70 42 60 55 | N. attiré. 24 17 0 22 40 2 35 0 | Petits arcs. 24 22 0 17 24 32 17 20 | Mer..... Assez belle. Roulis..... Médiocres et assez égaux. Tangages... Faibles. Observation.. Passable. | | | | |
| | | Petits arcs. 26 12 0 5 20 22 20 2 | N. attiré. 25 80 0 80 57 67 77 60 | Petits arcs. 26 67 0 70 45 45 75 62 | N. repoussé. 26 40 0 37 47 22 45 35 | Petits arcs. 24 30 0 30 40 40 45 37 | N. attiré. 24 57 0 47 42 50 45 42 | Petits arcs. 24 12 0 27 20 20 27 25 | | | | | |
| | | Petits arcs. 25 30 0 57 25 50 50 45 | N. attiré. 25 45 0 47 47 27 42 55 | Petits arcs. 25 35 0 37 32 27 27 37 | N. repoussé. 25 27 0 30 60 47 60 37 | Petits arcs. 23 35 0 40 20 22 30 35 | N. attiré. 23 60 0 70 67 50 57 62 | Petits arcs. 24 10 0 2 2 15 2 7 | | | | | |
| | | Petits arcs. 26 25 0 25 20 27 20 15 | N. attiré. 26 35 0 70 52 70 60 37 | Petits arcs. 25 70 0 72 70 57 55 65 | N. repoussé. 25 50 0 55 65 40 30 52 | Petits arcs. 23 60 0 55 65 40 30 12 | N. attiré. 24 7 0 30 15 40 20 12 | Petits arcs. 24 30 0 40 45 30 40 30 | | | | | |
| | | Frey. | 25 21 45 | 25 27 45 | 26 11 52 | 25 49 52 | ..... | 23 51 27 | 24 13 40 | 24 4 35 | 24 18 10 | Avant pôles changés. 25°42'48" { 24°54'53" } 25°5'16" | |
| | | Lm. | 26 5 27 | 26 8 12 | 26 18 12 | 26 18 0 | | 23 59 27 | 24 22 7 | 24 21 30 | 24 32 15 | Après pôles changés. 24° 6 58 { Inclinaison définitive. | |
| Moyennes... | | | | | | | | | | | | | |

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| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|---|---|--|-----------|-------------|------------|---------------------------------|------------|-------------|------------|---------------------------|---|------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | |
| Lm. | 1819. Octobre 24, de 10 ^h 20' matin à 2 ^h soir. | Grands arcs. | 37° 7' 0" | 37° 2' 0" | 38° 20' 0" | 38° 45' 0" | 36° 25' 0" | 36° 30' 0" | 35° 20' 0" | 35° 57' 0" | Points du cercle azimutal parallèles à la quille. | | |
| | | N. repoussé. \| N. attiré. | 30 | 12 | 22 | 45 | 20 | 27 | 20 | 45 | | | |
| | | | 7 | 2 | 37 | 35 | 5 | 15 | 25 | 47 | | | |
| | | | 5 | 7 | 37 | 10 | 20 | 17 | 32 | 52 | | | |
| | | | 12 | 20 | 25 | 32 | 7 | 10 | 35 | 47 | | | |
| | | | 5 | 30 | 15 | 22 | 10 | 17 | 45 | 52 | | | |
| | | Grands arcs. | 37 2 0 | 37 45 0 | 38 20 0 | 38 17 0 | 36 20 0 | 36 32 0 | 35 17 0 | 35 25 0 | | | |
| | | | 5 | 30 | 10 | 32 | 17 | 22 | 25 | 32 | | | |
| | | | 20 | 45 | 7 | 20 | 25 | 22 | 30 | 25 | | | |
| | | | 7 | 25 | 25 | 35 | 22 | 42 | 25 | 45 | | | |
| | | | 27 | 45 | 25 | 30 | 17 | 20 | 30 | 37 | | | |
| | | | 7 | 27 | 7 | 27 | 17 | 47 | 47 | 32 | | | |
| | | Petits arcs. | 36 70 0 | 37 7 0 | 38 37 0 | 38 45 0 | 36 15 0 | 36 42 0 | 35 17 0 | 35 20 0 | | | |
| | | N. repoussé. \| N. attiré. | 60 | 27 | 47 | 30 | 12 | 17 | 17 | 15 | | | |
| | | | 70 | 45 | 35 | 45 | 20 | 15 | 5 | 22 | | | |
| | | | 52 | 5 | 37 | 42 | 17 | 47 | 20 | 17 | | | |
| | | | 70 | 22 | 35 | 25 | 35 | 25 | 15 | 20 | | | |
| | | | 60 | 30 | 45 | 32 | 35 | 25 | 15 | 22 | | | |
| | | Petits arcs. | 37 22 0 | 37 15 0 | 38 17 0 | 38 10 0 | 36 35 0 | 36 25 0 | 35 7 0 | 35 47 0 | | | |
| | | N. repoussé. \| N. attiré. | 22 | 40 | 5 | 25 | 52 | 45 | 20 | 45 | | | |
| | | | 25 | 15 | 15 | 20 | 42 | 30 | 15 | 40 | | | |
| | | | 22 | 37 | 7 | 22 | 47 | 25 | 20 | 47 | | | |
| | | | 7 | 32 | 0 | 12 | 22 | 25 | 20 | 57 | | | |
| | | | 2 | 32 | 15 | 17 | 25 | 42 | 15 | 35 | | | |
| G. | | Grands arcs. | 37 55 0 | 37 50 0 | 37 65 0 | 37 30 0 | 36 65 0 | 36 50 0 | 35 20 0 | 35 40 0 | | | |
| | | N. repoussé. \| N. attiré. | 35 | 45 | 70 | 25 | 65 | 60 | 25 | 35 | | | |
| | | | 40 | 45 | 55 | 30 | 60 | 55 | 30 | 35 | | | |
| | | | 50 | 50 | 45 | 20 | 70 | 60 | 30 | 30 | | | |
| | | | 50 | 55 | 65 | 20 | 55 | 60 | 35 | 30 | | | |
| | | | 45 | 50 | 60 | 35 | 40 | 50 | 20 | 35 | | | |
| | | Petits arcs. | 37 70 0 | 37 55 0 | 37 65 0 | 37 55 0 | 36 25 0 | 36 45 0 | 35 40 0 | 35 35 0 | | | |
| | | N. repoussé. \| N. attiré. | 40 | 45 | 55 | 50 | 30 | 20 | 35 | 35 | | | |
| | | | 70 | 50 | 70 | 50 | 30 | 30 | 55 | 35 | | | |
| | | | 40 | 60 | 60 | 55 | 20 | 25 | 35 | 30 | | | |
| | | | 40 | 50 | 60 | 50 | 25 | 30 | 45 | 45 | | | |
| | | | 50 | 45 | 65 | 55 | 30 | 35 | 40 | 15 | | | |
| | | Petits arcs. | 37 40 0 | 37 35 0 | 38 15 0 | 38 10 0 | 36 17 0 | 36 20 0 | 35 30 0 | 35 45 0 | | | |
| | | N. repoussé. \| N. attiré. | 20 | 30 | 0 | 25 | 20 | 30 | 25 | 35 | | | |
| | | | 0 | 45 | 20 | 0 | 20 | 45 | 30 | 35 | | | |
| | | | 15 | 15 | 10 | 20 | 15 | 45 | 20 | 40 | | | |
| | | | 35 | 40 | 35 | 15 | 20 | 40 | 15 | 35 | | | |
| | | | 35 | 45 | 0 | 30 | 20 | 35 | 20 | 50 | | | |
| | | Petits arcs. | 37 10 0 | 37 60 0 | 38 30 0 | 38 30 0 | 36 10 0 | 36 15 0 | 35 20 0 | 35 45 0 | | | |
| | | N. repoussé. \| N. attiré. | 40 | 45 | 25 | 30 | 20 | 30 | 15 | 30 | | | |
| | | | 40 | 45 | 35 | 40 | 20 | 35 | 10 | 45 | | | |
| | | | 40 | 55 | 15 | 30 | 45 | 10 | 10 | 50 | | | |
| | | | 45 | 55 | 35 | 20 | 30 | 40 | 15 | 35 | | | |
| | | | 40 | 60 | 15 | 30 | 15 | 30 | 15 | 45 | | | |
| Moyennes... | Lm. | 37 10 40 | 37 24 52 | 38 22 42 | 38 28 7 | ..... | ..... | ..... | ..... | ..... | Avant pôles changés. 37° 51' 36" | | |
| | G. | 37 39 22 | 37 47 5 | 38 10 25 | 38 1 27 | ..... | 36 23 25 | 36 27 40 | 35 22 22 | 35 36 47 | Après pôles changés. 35 57 34 | | |
|  |  | ..... | ..... | ..... | ..... | 36 31 57 | 36 37 17 | 35 26 27 | 35 37 5 | { 36° 54' 35" | | | |
| | | | | | | | | | | { 36° 56' 45" | | | |
| | | | | | | | | | | { Inclinaison définitive. | | | |
| | | | | | | | | | | { 36 58 53 | | | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 6. | | | | | | | | | | REMARQUES. | |
|--|---|---|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|-----------|--|---|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| TRAVERSÉE DES SANDWICH AU PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | |
| Lm. | 1819. Octobre 28, de 10 ^h matin à 1 ^h 50' soir. | Grands arcs. N. repoussé. \| N. attiré. | 42° 0' 0" | 42° 5' 0" | 42° 5' 0" | 42°35' 0" | 43°12' 0" | 43°25' 0" | 43°17' 0" | 43°52' 0" | Points du cercle axial parallèles à la quille. | | |
| | | | 10 | 15 | 2 | 35 | 22 | 27 | 15 | 42 | | | |
| | | | 2 | 7 | 2 | 10 | 15 | 37 | 10 | 57 | | | |
| | | | 25 | 20 | 5 | 20 | 12 | 35 | 15 | 42 | | | |
| | | | 37 | 25 | 17 | 37 | 30 | 30 | 17 | 37 | | | |
| | | | 15 | 7 | 17 | 20 | 40 | 47 | 17 | 40 | | | |
| | | | 41 55 0 | 41 50 0 | 42 12 0 | 42 17 0 | 43 32 0 | 43 90 0 | 43 115 0 | 43 75 0 | | | |
| | | | 45 | 62 | 27 | 15 | 37 | 35 | 110 | 60 | | | |
| | | | 60 | 50 | 27 | 32 | 27 | 70 | 52 | 42 | | | |
| | | | 30 | 60 | 17 | 10 | 17 | 85 | 105 | 72 | | | |
| | | | 50 | 45 | 30 | 20 | 17 | 60 | 102 | 37 | | | |
| | | | 60 | 62 | 27 | 17 | 35 | 40 | 100 | 67 | | | |
| B. | | Petits arcs. N. repoussé. \| N. attiré. | 41 30 0 | 41 40 0 | 41 67 0 | 42 7 0 | 43 47 0 | 43 40 0 | 43 35 0 | 43 42 0 | Division de gauche. | | |
| | | | 32 | 55 | 50 | 10 | 45 | 30 | 32 | 40 | | | |
| | | | 60 | 37 | 72 | 2 | 42 | 32 | 37 | 45 | | | |
| | | | 52 | 52 | 45 | 7 | 47 | 27 | 42 | 42 | | | |
| | | | 37 | 42 | 50 | 15 | 45 | 22 | 32 | 47 | | | |
| | | | 37 | 37 | 60 | 2 | 50 | 32 | 45 | 37 | | | |
| | | | 41 40 0 | 41 40 0 | 42 25 0 | 42 15 0 | 44 40 0 | 44 52 0 | 43 45 0 | 43 62 0 | Division de droite. | | |
| | | | 55 | 47 | 30 | 17 | 35 | 52 | 45 | 45 | | | |
| | | | 55 | 42 | 20 | 12 | 42 | 60 | 57 | 47 | | | |
| | | | 40 | 45 | 15 | 7 | 30 | 40 | 45 | 42 | | | |
| Moyennes... | | Petits arcs. N. repoussé. \| N. attiré. | 42 | 52 | 7 | 17 | 7 | 27 | 42 | 45 | Pointe élevée.... | | |
| | | | 45 | 45 | 15 | 30 | 22 | 45 | 15 | 15 | Mer..... Assez belles. | | |
| | | | 45 | 37 | 15 | 30 | 30 | 90 | 15 | 15 | Roulis..... Faibles. | | |
| | | | 50 | 30 | 0 | 45 | 45 | 105 | 15 | 0 | Tangages... Un peu forts et irréguliers. | | |
| | | | 35 | 60 | 15 | 30 | 52 | 105 | 15 | 15 | Observatio... Assez bonne. | | |
| | | | 45 | 45 | 15 | 30 | 22 | 45 | 15 | 15 | | | |
| | | | 41 37 0 | 41 47 0 | 42 15 0 | 42 30 0 | 44 30 0 | 44 15 0 | 44 30 0 | 44 7 0 | | | |
| | | | 52 | 15 | 0 | 30 | 37 | 0 | 15 | 15 | | | |
| | | | 60 | 37 | 15 | 15 | 30 | 7 | 15 | 0 | | | |
| | | | 30 | 60 | 30 | 15 | 30 | 0 | 45 | 15 | | | |
| Lm. | | Petits arcs. N. repoussé. \| N. attiré. | 30 | 75 | 15 | 30 | 30 | 0 | 30 | 15 | | | |
| | | | 67 | 60 | 25 | 7 | 30 | 0 | 22 | 15 | | | |
| | | | 41 37 0 | 41 45 0 | 42 0 0 | 41 50 0 | 44 0 0 | 43 45 0 | 44 0 0 | 44 30 0 | | | |
| | | | 30 | 52 | 0 | 45 | 0 | 60 | 0 | 0 | | | |
| | | | 30 | 60 | 0 | 45 | 0 | 60 | 0 | 0 | | | |
| | | | 52 | 60 | 20 | 60 | 0 | 60 | 0 | 15 | | | |
| | | | 45 | 30 | 0 | 60 | 0 | 60 | 0 | 0 | | | |
| | | | 30 | 30 | 0 | 75 | 0 | 52 | 0 | 0 | | | |
| | | | 42 0 0 | 41 60 0 | 42 30 0 | 42 22 0 | 43 37 0 | 43 60 0 | 44 15 0 | 44 22 0 | | | |
| | | | 0 | 60 | 15 | 30 | 45 | 45 | 30 | 15 | | | |
| Moyennes... | | Petits arcs. N. repoussé. \| N. attiré. | 0 | 52 | 20 | 30 | 52 | 45 | 30 | 15 | | | |
| | | | 0 | 57 | 30 | 20 | 60 | 60 | 15 | 0 | | | |
| | | | 5 | 60 | 30 | 30 | 50 | 45 | 15 | 22 | | | |
| | | | 5 | 67 | 15 | 15 | 60 | 60 | 15 | 0 | | | |
| | | | 41 53 5 | 41 54 15 | 42 11 50 | 42 16 5 | | 43 45 15 | 43 57 10 | 43 34 20 | 43 48 17 | Avant pôles changés. 42° 3' 49" { 42° 55' 2" } 42° 59' 6" | |
| Après pôles changés. 43 46 16 | | | | | | | | | | | | | |
| B. | | Petits arcs. N. repoussé. \| N. attiré. | 41 45 22 | 41 49 50 | 42 14 47 | 42 18 30 | | 44 0 5 | 43 50 35 | 44 15 35 | 44 11 10 | Inclinaison définitive. | |
|  |  |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Avant pôles changés. 42° 2' 7" { 43° 3' 14" } | | |
| Après pôles changés. 44 4 21 | | | | | | | | | | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|---------------|--|---|---|--|-----------------------------|---|---|---|---|---|--|---|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| Lm. | 1819. Octobre 29, de 10 ^h 45 ^m matin à 2 ^h soir. | 43°35' 0" 17 20 27 35 32 | 43°15' 0" 17 32 10 17 7 | 42°00' 0" 60 52 47 52 57 | 75 75 40 105 42 | 42°72' 0" 27 15 22 37 20 | 40°22' 0" 27 25 17 57 35 | 45°40' 0" 30 32 20 40 35 | 44°20' 0" 17 30 15 10 30 | 44°15' 0" 22 7 22 22 15 | Points du cercle azimuthal parallèles à la quille. | | |
| | | Grands arcs. 42 47 0 57 90 92 37 52 | N. repoussé. 43 40 0 27 32 2 25 47 | N. attiré. 42 20 0 17 27 57 57 37 | | 42 45 0 65 25 90 77 80 | 45 2 0 20 25 17 57 0 | 44 95 0 55 90 77 80 82 | 43 60 0 52 77 60 52 60 | 43 82 0 85 60 90 52 85 | Division de gauche. 184° 26' | Division de droite. 175° 34' | |
| | | Petits arcs. 42 60 0 47 35 70 62 75 | N. repoussé. 42 100 0 60 42 30 87 82 | N. attiré. 42 27 0 27 32 37 45 50 | | 42 60 0 32 37 62 40 37 | 45 30 0 22 7 42 2 5 | 45 45 0 15 32 2 52 82 | 43 75 0 70 50 60 55 60 | 43 77 0 60 52 65 52 85 | Cap.... S. 56° 15' 0. | Mérid. magn. Face à l'E. 184° 26' — 56° 15' = 128° 11' Face à l'O. 128 11 — 180 00 = -51 49' | |
| | | Grands arcs. 42 52 0 52 60 60 62 55 45 | N. repoussé. 42 72 0 60 52 42 62 75 | N. attiré. 42 35 0 45 55 55 62 62 | | 42 62 0 67 60 42 52 55 | 45 25 0 40 47 2 52 32 | 45 45 0 30 42 27 55 30 | 44 35 0 22 10 30 22 17 | 44 45 0 37 40 20 25 25 | Pointe élevée.... Nord. | Mar..... Assez belle. Roulis..... Irrégulier. Tangages.... Idem. Observation.. Passable. | |
| G. | | Petits arcs. 43 25 0 25 30 45 50 30 | N. repoussé. 43 30 0 35 50 70 50 65 | N. attiré. 42 40 0 45 80 85 35 45 | | 42 40 0 80 85 60 45 | 45 5 0 15 5 5 10 | 45 20 0 20 20 55 45 25 | 44 25 0 5 15 5 20 20 | 44 15 0 | | | |
| | | Grands arcs. 43 45 0 5 20 15 40 45 | N. repoussé. 43 45 0 40 25 25 40 25 | N. attiré. 42 55 0 60 65 40 57 70 | | 42 95 0 65 40 45 35 30 | 45 30 0 20 15 25 35 30 | 45 55 0 35 50 45 45 35 | 44 35 0 60 35 65 25 75 | 44 25 0 30 40 20 45 30 | | | |
| | | Petits arcs. 42 80 0 40 75 55 50 55 | N. repoussé. 42 80 0 50 80 10 95 80 | N. attiré. 42 5 0 15 5 25 35 20 | | 42 35 0 10 10 25 55 15 | 45 25 0 5 0 40 30 0 | 45 25 0 15 15 20 30 0 | 44 25 0 35 30 35 45 40 | 43 100 0 55 70 100 100 115 | | | |
| | | Grands arcs. 42 15 0 55 15 55 65 30 50 | N. repoussé. 42 45 0 55 50 30 65 65 50 | N. attiré. 43 15 0 15 15 55 115 25 | | 42 75 0 100 25 55 90 105 | 44 80 0 90 30 55 90 90 | 45 15 0 35 30 20 30 30 | 44 10 0 35 25 40 15 20 | 44 20 0 30 30 40 35 35 | | | |
| Moyennes... | Lm. | 43 7 40 | 43 15 42 | 42 42 45 | 42 57 27 | ..... | ..... | ..... | ..... | ..... | ..... | Avant pôles changés. 43° 0' 54" | |
| | G. | 43 0 35 | 43 23 20 | 42 52 47 | 42 56 2 | ..... | 45 21 22 | 45 29 35 | 44 12 45 | 44 16 15 | ..... | Après pôles changés. 44 49 59 | |
|  |  |  |  |  |  | ..... | 45 17 42 | 45 29 47 | 44 31 15 | 44 27 42 | ..... | 43° 58' 15" | |
|  |  |  |  |  |  | ..... | ..... | ..... | ..... | ..... | ..... | Inclinaison définitive. | |
| | | | | | | | | | | | | | |

Avant pôles changés. 43° 0' 54" { 43° 55' 26"
Après pôles changés. 44 49 59 } 43° 58' 15"
Avant pôles changés. 43° 5 26" { 44 1 2 } définitive.
Après pôles changés. 44 56 37 }

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | | | |
|---|----------------------------|---|--|---|---------------------------------|--------------------------------|---------------------------------|----------------------------------|----------------------------------|---|----------------------------------|--|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| TRAVERSÉE DES SANDWICH AU PORT - JACKSON (NOUVELLE - HOLLANDE). | | | | | | | | | | | | | | |
| Lm. | 1819. | Grands arcs. Nov. 3, de 10 ^h 30' matin, à 11 ^h 50' avant pôles changés et de 1 ^h 12' soir, à 2 ^h 30' après pôles changés | 54° 57' 0" 55° 27' 0" 53° 45' 0" 54° 37' 0" 52° 02' 0" 53° 27' 0" 52° 97' 0" 53° 7' 0" | 55° 27' 0" 53° 45' 0" 54° 37' 0" 52° 02' 0" 53° 27' 0" 52° 97' 0" 53° 7' 0" | 60 52 45 80 53 15 15 70 42 40 7 | 0 30 0 37 20 17 10 20 10 10 20 | 0 0 0 5 50 30 55 37 35 80 62 | 40 52 50 70 57 35 35 52 37 12 27 | 52 55 60 90 55 10 10 55 25 27 60 | 37 75 90 55 35 15 12 27 25 15 45 | 32 15 37 27 40 55 57 10 42 15 42 | Points parallèles à la quille. | | |
| 54 37 0 55 15 0 | 53 25 0 53 40 0 | | 53 12 0 53 57 0 | 53 57 0 53 40 0 | 53 12 0 53 57 0 | 53 57 0 53 40 0 | 53 12 0 53 57 0 | 53 57 0 53 40 0 | 53 12 0 53 57 0 | Division de gauche. | | | | |
| 15 17 25 20 10 10 15 | 30 20 55 37 17 12 27 | | 57 37 52 37 37 25 47 | 35 40 12 37 37 27 15 | 35 40 12 37 37 27 15 | 35 40 12 37 37 27 15 | 35 40 12 37 37 27 15 | 35 40 12 37 37 27 15 | 35 40 12 37 37 27 15 | 184° 26' 175° 34' | Division de droite. | | | |
| 70 42 40 7 | 25 10 30 20 | | 35 17 12 27 | 52 37 25 47 | 52 37 25 47 | 52 37 25 47 | 52 37 25 47 | 52 37 25 47 | 52 37 25 47 | Cap. ... S. 70° 45' O. | | | | |
| 42 40 7 | 10 15 20 | | 37 25 12 | 55 30 25 | 55 30 25 | 55 30 25 | 55 30 25 | 55 30 25 | 55 30 25 | Mérid. magn. Face à l'E. 184° 26' — 70° 45' = 113° 41' | | | | |
| 40 7 | 10 20 | | 30 15 | 80 62 | 80 62 | 80 62 | 80 62 | 80 62 | 80 62 | Face à l'O. 113° 41' — 180° 0' = -06° 19' | | | | |
| 7 | 20 | | 15 | 62 | 27 | 47 | 15 | 42 | 15 | Pointe élevée... Nord. | | | | |
| 54 45 0 54 40 0 | 53 32 0 53 62 0 | | 52 45 0 53 65 0 | 53 65 0 52 67 0 | 52 67 0 52 60 0 | 52 60 0 53 37 0 | 52 67 0 52 60 0 | 52 67 0 52 60 0 | 52 67 0 52 60 0 | Mer..... Houleuse. | | | | |
| 35 70 87 92 75 30 50 | 65 62 40 20 22 0 52 | | 50 15 40 87 75 30 0 | 15 57 40 42 35 50 62 | 15 57 40 42 35 50 97 | 15 57 40 42 35 50 92 | 15 57 40 42 35 50 92 | 15 57 40 42 35 50 92 | 15 57 40 42 35 50 92 | Roulis..... Forts et irréguliers. | | | | |
| 50 | 62 | | 2 | 40 | 70 | 0 | 62 | 92 | 92 | Tangages.... Faibles, mais irréguliers. | | | | |
| 54 30 0 54 75 0 | 53 92 0 53 27 0 | | 52 70 0 53 37 0 | 53 37 0 52 60 0 | 52 60 0 53 37 0 | 52 60 0 53 37 0 | 52 60 0 53 37 0 | 52 60 0 53 37 0 | 52 60 0 53 37 0 | Observation... Médiocre. | | | | |
| 42 65 55 15 45 50 37 | 22 33 15 45 7 42 37 | | 70 87 27 105 30 50 30 | 87 72 55 80 30 65 90 | 87 72 55 80 30 65 10 | 87 72 55 80 30 65 10 | 87 72 55 80 30 65 10 | 87 72 55 80 30 65 10 | 87 72 55 80 30 65 10 | N. B. On s'était trompé de 3° sur l'azimut dans lequel ces observations devaient être faites : on l'a rectifié ici. Je pense que cette petite erreur n'a pu avoir qu'une trop minime influence sur la valeur finale pour devoir le rejeter. | | | | |
| G. | Petits arcs. N. attiré. | Grands arcs. N. repoussé. | 54 55 0 54 80 0 | 53 85 0 53 20 0 | 53 20 0 52 50 0 | 53 90 0 53 55 0 | 53 90 0 53 55 0 | 53 90 0 53 55 0 | 53 90 0 53 55 0 | 53 90 0 53 55 0 | | | | |
| 45 80 | | | 100 | 45 0 | 40 | 10 | 65 | 10 | 65 | | | | | |
| 45 80 | | | 50 | 50 30 | 60 | 35 | 35 | 35 | 35 | | | | | |
| 45 65 | | | 70 | 60 35 | 40 | 55 | 60 | 55 | 60 | | | | | |
| 60 70 | | | 70 | 55 35 | 75 | 30 | 40 | 30 | 40 | | | | | |
| Petits arcs. N. repoussé. | | 45 45 | 85 | 35 10 | 80 | 75 | 65 | 75 | 65 | | | | | |
| | | 54 110 0 54 105 0 | 53 70 0 53 20 0 | 54 30 0 53 75 0 | 53 27 0 53 35 0 | 53 27 0 53 35 0 | 53 27 0 53 35 0 | 53 27 0 53 35 0 | 53 27 0 53 35 0 | 53 27 0 53 35 0 | | | | |
| | | 80 100 | 45 10 | 15 115 | 15 15 | 15 30 | 15 30 | 15 30 | 15 30 | 15 30 | | | | |
| | | 75 75 | 90 20 | 75 105 | 45 45 | 45 25 | 45 25 | 45 25 | 45 25 | 45 25 | | | | |
| | | 70 57 | 62 45 | 75 25 | 105 105 | 40 60 | 40 60 | 40 60 | 40 60 | 40 60 | | | | |
| Petits arcs. N. attiré. | | 50 45 | 45 45 | 45 55 | 105 95 | 95 55 | 95 55 | 95 55 | 95 55 | 95 55 | | | | |
| | | 60 40 | 40 25 | 30 30 | 30 95 | 95 55 | 55 55 | 55 55 | 55 55 | 55 55 | | | | |
| | | 54 46 0 54 35 0 | 53 85 0 53 85 0 | 53 35 0 53 32 0 | 52 35 0 52 45 0 | 52 35 0 52 45 0 | 52 35 0 52 45 0 | 52 35 0 52 45 0 | 52 35 0 52 45 0 | 52 35 0 52 45 0 | | | | |
| | | 65 50 | 60 65 | 35 35 | 75 | 75 | 40 | 40 | 40 | 40 | | | | |
| | | 75 20 | 75 90 | 25 30 | 40 | 40 | 45 | 45 | 45 | 45 | | | | |
| Petits arcs. N. repoussé. | | 57 95 | 45 50 | 15 5 | 35 35 | 35 35 | 40 | 40 | 40 | 40 | | | | |
| | | 50 55 | 45 62 | 62 10 | 40 40 | 40 40 | 40 40 | 40 40 | 40 40 | 40 40 | | | | |
| | | 20 60 | 45 95 | 40 5 | 45 45 | 45 45 | 40 | 40 | 40 | 40 | | | | |
| | | 54 47 0 54 85 0 | 54 0 0 53 75 0 | 53 45 0 52 55 0 | 53 30 0 52 70 0 | 53 30 0 52 70 0 | 53 30 0 52 70 0 | 53 30 0 52 70 0 | 53 30 0 52 70 0 | 53 30 0 52 70 0 | | | | |
| | | 95 35 | 0 85 | 60 40 | 40 40 | 40 40 | 40 40 | 40 40 | 40 40 | 40 40 | | | | |
| Petits arcs. N. attiré. | | 85 15 | 10 55 | 60 75 | 0 0 | 0 0 | 10 | 10 | 10 | 10 | | | | |
| | | 60 105 | 25 70 | 40 100 | 40 40 | 40 40 | 45 45 | 45 45 | 45 45 | 45 45 | | | | |
| | | 40 60 | 10 87 | 45 55 | 55 55 | 55 55 | 25 25 | 25 25 | 25 25 | 25 25 | | | | |
| | | 40 80 | 55 30 | 55 100 | 100 30 | 100 30 | 30 30 | 30 30 | 30 30 | 30 30 | | | | |
| | | 54 46 22 55 857 | 53 32 52 53 50 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  |
| Moyennes... | Lm. | 54 46 22 55 857 | 53 32 52 53 50 20 | | | | | | | | | Avant pôles changés. 54° 19' 38" { 53° 50' 37" | | |
| | G. | 55 0 35 55 4 2 | 54 7 47 53 53 17 | | | | | | | | | Après pôles changés. 53 21 35 } 53 55' 41" Inclinaison | | |
| | | | | | | | | | | | | définitive. | | |
| | | 53 53 37 | 53 28 27 53 25 42 | 53 11 50 53 24 37 | 53 12 30 | 53 12 30 | 53 12 30 | 53 12 30 | 53 12 30 | 53 12 30 | 53 12 30 | Après pôles changés. 53 30 4 } | | |

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6. | | | | | | | | REMARQUES. | |
|--------------|---|--|---|---|---|--|---|--|---|--|---|--|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| Lm. | 1819. Nov. 5, de 10 ^h 50' matin, à 2 ^b soir. | Grands arcs. 57 65' 0" 65 57 57 45 32 57 30 0 35 37 27 60 50 | N. attiré. 32 25 22 15 27 57 62 0 60 47 77 70 57 | 35 30 27 40 52 57 47 0 60 67 37 72 55 | 60 25 25 22 47 57 40 0 25 25 45 37 45 | 57 45' 0" 57 55 57 57 57 15 0 17 45 47 27 55 | 57 20' 0" 57 27 22 20 35 | 58 57' 0" 50 17 22 40 5 | 58 10' 0" 50 20 27 40 52 | 58 32 0 35 40 35 35 15 | Points parallèles à la quille. Division de gauche. 184° 26'. Division de droite. 175° 34'. Cap. ... S. 33° 45' 0". Mérid. magn. Face à l'E. 184° 26' — 33° 45' = 150° 41'. Face à l'O. 150° 41' — 180° 0' = -29° 19'. Pointe élevée.... Nord. Mer..... Assez belle. Roulis..... Faibles. Tangages.... Idem. Observation.. Passable. | |
| | | Petits arcs. 57 37 0 55 50 42 35 45 | N. repoussé. 37 60 35 35 30 37 | N. attiré. 17 30 37 50 52 45 | 57 17 0 30 37 50 42 35 | 57 57 0 45 57 57 42 35 | 56 42 0 75 72 67 47 37 | 56 42 0 72 40 40 30 52 | 58 20 0 55 40 40 30 30 | 58 15 0 30 17 15 15 37 | | |
| | | 57 37 0 27 60 32 35 50 | 57 45 0 37 37 30 52 57 | 57 30 0 40 40 27 25 25 | 57 30 0 32 30 22 30 22 | 57 7 0 35 2 35 35 17 | 57 25 0 40 35 35 10 20 | 58 20 0 30 32 32 40 47 | 58 15 0 17 15 20 15 45 | | | |
| Db. | | Grands arcs. 58 10 0 35 20 30 0 45 | N. repoussé. 32 35 42 42 60 75 | N. attiré. 30 42 30 45 50 37 | 57 30 0 25 45 45 30 45 | 57 50 0 52 40 37 40 75 | 57 60 0 52 40 37 40 22 | 57 30 0 60 65 65 60 30 | 58 20 0 30 37 47 42 30 | 58 45 0 45 30 27 42 30 | | |
| | | 57 40 0 35 65 45 80 50 | 57 45 0 70 72 72 70 45 | 56 57 0 50 80 65 60 60 | 57 0 0 5 15 0 15 22 | 57 60 0 20 35 15 55 15 | 57 20 0 5 15 32 25 7 | 57 90 0 102 45 92 90 | 58 5 0 15 30 30 7 | 58 5 0 15 30 30 15 | | |
| | | 57 22 0 30 30 10 10 25 | 57 15 0 20 30 40 25 30 | 57 25 0 62 60 45 32 65 | 57 40 0 45 50 45 45 35 | 57 50 0 37 50 55 45 60 | 57 45 0 30 45 50 30 30 | 58 5 0 12 20 30 45 | 58 37 0 60 22 55 57 | | | |
| | | 57 30 0 47 52 60 60 55 | 57 50 0 70 57 70 72 70 | 57 0 0 20 0 5 0 22 | 57 5 0 25 5 15 0 20 | 57 5 0 12 7 30 37 0 | 57 0 0 30 45 45 35 35 | 58 5 0 10 5 30 37 .30 | 58 30 0 47 45 30 55 30 | | | |
| Moyennes... | Lm. | 57 44 22 | 57 42 45 | 57 41 27 | 57 37 47 | ..... | ..... | ..... | ..... | ..... | Avant pôles changés. 57° 41' 36" | |
| | Db. | 57 51 55 | 57 51 32 | 57 22 22 | 57 26 45 | 57 13 5 | 57 21 15 | 58 31 17 | 58 22 20 | ..... | Après pôles changés. 57° 51' 59" { 57° 46' 47" } 57° 48' 33" | |
|  |  | ..... | ..... | ..... | 57 36 32 | 57 35 2 | 58 25 22 | 58 32 52 | ..... | Avant pôles changés. 57° 38' 09" { 57° 50' 18" } Inclinaisons définitives. | | |
|  |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Après pôles changés. 58° 2' 27" { 58° 22' 20" } | | |

| OBSERVATOIRE. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 4. | | | | | | | | | | | | REMARQUES. | |
|---------------|--|--|--------------|--------------|------------|---------------------------------|--------------|--------------|------------|--|--------------|--------------|------------|------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHARGÉS PAR 40 FRICTIONS. | | | | | | | | | |
| | | Indices. | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. * | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| Lm. | 1819. Décem. 3, de 3 ^h 30' à 5 ^h soir. | 62° 0' 0" | 62° 37' 0" | 61° 57' 0" | 62° 10' 0" | 63° 25' 0" | 63° 30' 0" | 63° 10' 0" | 63° 27' 0" | Azimuts moyens où les observations ont été faites. | | | | | |
| | | 25 | 37 | 55 | 10 | 27 | 27 | 7 | 30 | | | | | | |
| | | 5 | 35 | 57 | 10 | 30 | 27 | 0 | 27 | | | | | | |
| | | 2 | 37 | 57 | 7 | 30 | 27 | 10 | 25 | | | | | | |
| | | 0 | 35 | 55 | 7 | 30 | 27 | 10 | 25 | | | | | | |
| | | 7 | 37 | 60 | 10 | 25 | 30 | 0 | 25 | | | | | | |
| | | 62 2 0 | 62 35 0 | 62 0 0 | 62 25 0 | 63 27 0 | 63 20 0 | 63 2 0 | 63 25 0 | | | | | | |
| | | 0 | 35 | 0 | 27 | 30 | 22 | 0 | 25 | | | | | | |
| | | 2 | 35 | 2 | 27 | 27 | 25 | 0 | 27 | | | | | | |
| | | 2 | 35 | 0 | 22 | 30 | 27 | 2 | 27 | | | | | | |
| | | 2 | 35 | 0 | 27 | 25 | 27 | 0 | 35 | | | | | | |
| | | 0 | 35 | 0 | 20 | 27 | 25 | 0 | 30 | | | | | | |
| | | 61 57 0 | 62 15 0 | 61 50 0 | 62 10 0 | 63 15 0 | 63 15 0 | 62 52 0 | 63 17 0 | | | | | | |
| | | 50 | 20 | 52 | 10 | 12 | 17 | 47 | 20 | | | | | | |
| | | 55 | 25 | 50 | 7 | 15 | 15 | 57 | 25 | | | | | | |
| | | 62 | 17 | 50 | 10 | 15 | 15 | 45 | 17 | | | | | | |
| | | 50 | 25 | 45 | 7 | 20 | 15 | 45 | 17 | | | | | | |
| | | 57 | 5 | 55 | 5 | 10 | 15 | 55 | 20 | | | | | | |
| | | 61 52 0 | 62 25 0 | 61 50 0 | 62 7 0 | 63 15 0 | 63 17 0 | 62 47 0 | 63 20 0 | | | | | | |
| | | 52 | 22 | 50 | 7 | 17 | 17 | 55 | 22 | | | | | | |
| | | 50 | 22 | 52 | 7 | 15 | 15 | 55 | 25 | | | | | | |
| | | 52 | 25 | 47 | 7 | 15 | 15 | 55 | 25 | | | | | | |
| | | 50 | 21 | 52 | 7 | 15 | 12 | 47 | 20 | | | | | | |
| | | 55 | 17 | 50 | 7 | 17 | 17 | 50 | 20 | | | | | | |
| G. Fb. | Avant et après pôles changés | Grands arcs. | Petits arcs. | N. repoussé. | N. attiré. | Grands arcs. | Petits arcs. | N. repoussé. | N. attiré. | Grands arcs. | Petits arcs. | N. repoussé. | N. attiré. | | |
| | | 62 10 0 | 62 30 0 | 61 55 0 | 62 0 0 | 63 32 0 | 63 30 0 | 63 15 0 | 63 10 0 | 62 10 0 | 62 30 0 | 61 55 0 | 62 25 0 | | |
| | | 10 | 40 | 55 | 7 | 35 | 30 | 7 | 10 | 10 | 20 | 5 | 15 | | |
| | | 15 | 35 | 50 | 7 | 35 | 25 | 7 | 12 | 15 | 25 | 5 | 15 | | |
| | | 15 | 45 | 45 | 5 | 35 | 25 | 10 | 10 | 15 | 25 | 5 | 15 | | |
| | | 15 | 37 | 45 | 5 | 35 | 32 | 12 | 12 | 15 | 25 | 5 | 15 | | |
| | | 20 | 27 | 47 | 5 | 32 | 30 | 12 | 12 | 15 | 25 | 5 | 15 | | |
| | | 62 5 0 | 62 42 0 | 61 42 0 | 62 7 0 | 63 22 0 | 63 37 0 | 63 7 0 | 63 10 0 | 62 5 0 | 62 42 0 | 61 42 0 | 62 7 0 | | |
| | | 5 | 45 | 45 | 5 | 20 | 37 | 7 | 7 | 5 | 45 | 45 | 42 | | |
| | | 5 | 45 | 45 | 0 | 22 | 35 | 12 | 12 | 5 | 45 | 45 | 42 | | |
| | | 5 | 55 | 45 | 0 | 17 | 35 | 7 | 7 | 5 | 55 | 45 | 42 | | |
| | | 5 | 55 | 42 | 0 | 15 | 37 | 7 | 7 | 5 | 55 | 42 | 40 | | |
| | | 5 | 45 | 40 | 0 | 17 | 37 | 10 | 12 | 5 | 45 | 40 | 37 | | |
| | | 61 55 0 | 62 7 0 | 61 25 0 | 61 45 0 | 63 5 0 | 63 32 0 | 62 55 0 | 62 57 0 | 61 55 0 | 62 7 0 | 61 25 0 | 61 45 0 | | |
| | | 55 | 0 | 20 | 50 | 0 | 35 | 57 | 57 | 55 | 0 | 20 | 50 | | |
| | | 55 | 5 | 30 | 45 | 0 | 35 | 55 | 60 | 55 | 5 | 30 | 45 | | |
| | | 55 | 10 | 25 | 47 | 10 | 30 | 60 | 60 | 55 | 10 | 25 | 47 | | |
| | | 60 | 20 | 25 | 47 | 5 | 30 | 57 | 57 | 55 | 20 | 25 | 47 | | |
| | | 50 | 5 | 25 | 50 | 62 55 0 | 30 | 60 | 60 | 55 | 5 | 25 | 50 | | |
| | | 61 60 0 | 62 15 0 | 61 27 0 | 61 50 0 | 63 7 0 | 63 30 0 | 63 0 0 | 63 10 0 | 61 60 0 | 62 15 0 | 61 27 0 | 61 50 0 | | |
| | | 50 | 20 | 30 | 50 | 2 | 30 | 7 | 7 | 50 | 20 | 30 | 50 | | |
| | | 60 | 17 | 20 | 42 | 5 | 35 | 0 | 7 | 60 | 17 | 20 | 42 | | |
| | | 55 | 15 | 20 | 50 | 10 | 30 | 7 | 10 | 55 | 15 | 20 | 50 | | |
| | | 55 | 20 | 25 | 50 | 12 | 35 | 7 | 7 | 55 | 20 | 25 | 50 | | |
| | | 55 | 15 | 30 | 45 | 10 | 30 | 7 | 7 | 55 | 15 | 30 | 45 | | |
| Moyennes... | Lm. | 61 58 42 | 62 27 47 | 61 54 25 | 62 12 12 | | 63 25 25 | 63 20 47 | 62 57 7 | 63 24 0 | | | | | |
| | G. Fb. | 62 2 30 | 62 27 5 | 61 35 15 | 61 55 30 | | 63 15 45 | 63 22 10 | 63 5 12 | 63 6 45 | | | | | |

Avant pôles changés. 62° 8' 17" 62° 42' 3" 62° 39' 49"
 Après pôles changés. 63 15 50 Inclinaison
 Avant pôles changés. 62 0 12 définitive.
 Après pôles changés. 63 14 57 62 37 35

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 0. | | | | | | | | | | REMARQUES. | |
|---|---|---|---|---|---|---|---|---|---|---|--|---|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICCTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| SYDNEY, PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | |
| Fb. | 1819. Décem. 4, de 1 ^h 30' à 2 ^h 50' soir, avant pôles changés | Grands arcs. N. repoussé. \| N. attiré. | 62° 47' 0" 40 17 20 30 52 | 62° 42' 0" 42 22 37 42 57 | 61° 37' 0" 37 37 37 37 45 | 61° 42' 0" 55 45 55 52 37 | 63° 52' 0" 52 52 60 52 60 | 63° 52' 0" 37 37 35 45 45 | 63° 37' 0" 37 37 35 40 40 | 63° 45' 0" 45 45 45 45 45 | Azimuts moyens où les observations ont été faites. | | |
| B. | 5, de 11 ^h matin, à 0 ^h 30' soir, après pôles changés | Grands arcs. N. repoussé. \| N. attiré. | 62 35 0 30 37 37 30 35 | 62 37 0 35 37 37 37 37 | 61 42 0 37 42 42 45 45 | 61 37 0 42 40 45 45 37 | 63 50 0 55 52 52 57 55 | 63 55 9 30 30 30 50 50 | 63 37 0 30 30 30 30 30 | 63 45 0 40 40 45 45 45 | Face au N. \| Face au S. | 14° 46' 45" \| 195° 19' 45" | |
| Lm. | | Petits arcs. N. repoussé. \| N. attiré. | 62 25 0 35 30 32 27 35 35 | 62 35 0 42 35 35 30 30 30 | 61 27 0 27 30 30 30 30 30 | 61 27 0 45 30 30 27 22 35 | 63 45 0 50 50 52 50 50 52 | 63 52 0 55 55 50 55 52 55 | 63 15 0 15 15 15 15 15 15 | 62 25 0 30 30 30 15 15 15 | Mérid. \| Face à l'O. = $\frac{14^{\circ}46'45" + 195^{\circ}19'45"}{2} = 105^{\circ}3'15'$ mag. Face à l'E. = $105^{\circ}3'15" + 180^{\circ} = 285^{\circ}3'15'$ | Observations faites sur la pile du cercle répétiteur. | |
| | | Grands arcs. N. repoussé. \| N. attiré. | 62 27 0 22 30 27 27 27 | 62 27 0 22 20 25 32 22 | 61 55 0 62 62 47 65 65 | 61 62 0 62 62 40 55 55 | 63 57 0 57 60 55 55 57 | 64 2 0 2 2 7 2 2 | 63 42 0 37 37 37 37 40 | 63 52 0 57 55 55 55 55 | | | |
| | | Petits arcs. N. repoussé. \| N. attiré. | 62 20 0 22 15 17 15 17 | 62 30 0 30 25 22 30 30 | 61 37 0 42 42 45 42 42 | 62 5 0 5 5 55 2 5 | 63 55 0 55 55 55 55 55 | 64 2 0 5 5 5 5 2 | 63 37 0 37 37 37 40 40 | 63 57 0 57 55 55 57 55 | | | |
| | | Petits arcs. N. repoussé. \| N. attiré. | 62 10 0 7 7 7 12 12 | 62 12 0 12 12 17 15 15 | 61 30 0 30 32 27 27 32 | 61 57 0 60 57 57 60 60 | 63 37 0 37 37 37 37 37 | 63 45 0 47 52 57 45 47 | 63 27 0 30 27 30 25 25 | 63 37 0 37 42 42 42 40 | | | |
| | | Petits arcs. N. repoussé. \| N. attiré. | 62 7 0 5 10 12 10 7 | 62 15 0 12 12 27 30 17 | 61 25 0 30 27 27 30 32 | 61 52 0 52 52 45 55 55 | 63 42 0 40 45 50 55 42 | 63 45 0 50 50 50 50 52 | 63 25 0 27 27 27 25 25 | 63 42 0 42 42 42 40 40 | | | |
| Moyennes... \| Fb. B. | 62 33 0 | 62 36 37 | 61 35 27 | 61 33 52 ..... | ..... | ..... | ..... | ..... | ..... | ..... | Avant pôles changés. 62° 4' 44' \| 62° 53' 11" \| 62° 53' 57" | | |
| | | | | | | | | | | | Après pôles changés. 63 41 38 \| 63 54 25 \| 63 36 17 | | |
| | | | | | | | | | | | Ischmann définitive. | | |
| | | | | | | | | | | | Avant pôles changés. 62 3 21 \| 62 54 42 \| 63 46 4 | | |
| | | | | | | | | | | | Après pôles changés. 63 46 4 | | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 2. | | | | | | | | | | | | REMARQUES. | |
|--------------|---|--|-----------|------------|------------|-------------|------------|------------|------------|--|-----------------------|-------------|-------------|-------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | Face à l'O. | | | | Face à l'E. | | | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| Frey. | 1819. Déc. 7, com- mencé à 0° 45'. | 62° 52' 0" | 63° 5' 0" | 63° 22' 0" | 63° 52' 0" | 62° 47' 0" | 62° 60' 0" | 62° 20' 0" | 62° 27' 0" | Azimuts moyens où les observations ont été faites. | | | | | |
| | | 43 | 2 | 32 | 52 | 43 | 65 | 22 | 30 | | | | | | |
| | | 55 | 0 | 25 | 48 | 45 | 65 | 27 | 30 | | | | | | |
| | | 50 | 0 | 25 | 52 | 45 | 62 | 25 | 30 | | | | | | |
| | | 43 | 62 55 | 27 | 50 | 40 | 60 | 25 | 35 | | | | | | |
| | | 45 | 63 0 | 25 | 52 | 40 | 60 | 35 | 30 | | | | | | |
| | | 62 45 0 | 62 57 0 | 63 27 0 | 63 52 0 | 62 55 0 | 62 57 0 | 62 22 0 | 62 32 0 | | | | | | |
| | | 45 | 63 0 | 23 | 45 | 52 | 55 | 23 | 32 | | | | | | |
| | | 45 | 62 58 | 25 | 52 | 50 | 60 | 18 | 30 | | | | | | |
| | | 43 | 58 | 13 | 53 | 55 | 53 | 18 | 35 | | | | | | |
| | | 40 | 55 | 32 | 50 | 53 | 58 | 20 | 33 | | | | | | |
| | | 38 | 53 | 30 | 45 | 48 | 50 | 25 | 32 | | | | | | |
| | | 62 30 0 | 62 45 0 | 63 0 0 | 63 40 0 | 62 30 0 | 62 35 0 | 61 55 0 | 62 0 0 | | | | | | |
| | | 28 | 50 | 8 | 40 | 20 | 35 | 60 | 0 | | | | | | |
| | | 35 | 45 | 2 | 42 | 27 | 40 | 57 | 5 | | | | | | |
| | | 52 | 38 | 7 | 47 | 40 | 40 | 62 | 5 | | | | | | |
| | | 35 | 47 | 15 | 45 | 40 | 37 | 63 | 3 | | | | | | |
| | | 33 | 48 | 10 | 42 | 30 | 40 | 65 | 5 | | | | | | |
| | | 62 35 0 | 62 47 0 | 63 2 0 | 63 35 0 | 62 30 0 | 62 37 0 | 61 40 0 | 62 8 0 | | | | | | |
| | | 35 | 48 | 7 | 37 | 25 | 35 | 55 | 8 | | | | | | |
| | | 33 | 43 | 5 | 37 | 30 | 37 | 55 | 12 | | | | | | |
| | | 30 | 50 | 10 | 40 | 30 | 37 | 60 | 15 | | | | | | |
| | | 25 | 50 | 15 | 45 | 30 | 40 | 60 | 10 | | | | | | |
| | | 35 | 53 | 15 | 43 | 30 | 38 | 70 | 12 | | | | | | |
| Frey. | | 62 47 0 | 63 2 0 | 63 25 0 | 63 55 0 | 62 40 0 | 62 60 0 | 62 30 0 | 62 30 0 | | | | | | |
| | | 52 | 0 | 32 | 57 | 40 | 53 | 32 | 35 | | | | | | |
| | | 40 | 62 57 | 32 | 55 | 38 | 60 | 30 | 40 | | | | | | |
| | | 45 | 55 | 23 | 53 | 38 | 60 | 40 | 23 | | | | | | |
| | | 43 | 53 | 28 | 55 | 40 | 55 | 35 | 25 | | | | | | |
| | | 45 | 58 | 25 | 55 | 35 | 57 | 25 | 25 | | | | | | |
| | | 63 5 0 | 62 60 0 | 63 30 0 | 63 45 0 | 62 45 0 | 62 52 0 | 62 18 0 | 62 42 0 | | | | | | |
| | | 62 38 | 55 | 28 | 45 | 48 | 50 | 27 | 33 | | | | | | |
| | | 43 | 53 | 28 | 45 | 45 | 47 | 23 | 40 | | | | | | |
| | | 38 | 50 | 27 | 53 | 47 | 42 | 25 | 30 | | | | | | |
| | | 38 | 63 0 | 32 | 48 | 45 | 40 | 23 | 30 | | | | | | |
| | | 45 | 62 55 | 32 | 45 | 45 | 40 | 30 | 32 | | | | | | |
| | | 62 40 0 | 62 45 0 | 63 10 0 | 63 45 0 | 62 30 0 | 62 35 0 | 62 2 0 | 62 5 0 | | | | | | |
| | | 33 | 43 | 12 | 45 | 30 | 40 | 7 | 5 | | | | | | |
| | | 35 | 43 | 17 | 45 | 30 | 38 | 12 | 5 | | | | | | |
| | | 33 | 43 | 15 | 45 | 25 | 33 | 12 | 7 | | | | | | |
| | | 30 | 40 | 12 | 45 | 23 | 35 | 10 | 15 | | | | | | |
| | | 30 | 43 | 17 | 45 | 30 | 53 | 7 | 7 | | | | | | |
| | | 62 30 0 | 62 35 0 | 63 0 0 | 63 43 0 | 62 30 0 | 62 45 0 | 61 65 0 | 62 20 0 | | | | | | |
| | | 30 | 50 | 10 | 40 | 28 | 40 | 57 | 17 | | | | | | |
| | | 28 | 53 | 5 | 40 | 30 | 36 | 65 | 17 | | | | | | |
| | | 30 | 47 | 15 | 45 | 30 | 37 | 65 | 17 | | | | | | |
| | | 35 | 57 | 7 | 50 | 32 | 38 | 65 | 20 | | | | | | |
| | | 30 | 50 | 20 | 43 | 30 | 38 | 70 | 22 | | | | | | |
| Moyennes... | | Frey. | 62 39 35 | 62 52 47 | 63 16 30 | 63 45 40 | | | | | Avant pôles changés.. | 63° 8' 38" | 62° 48' 58" | | |
| | | 1 ^{re} exp. | ..... | ..... | ..... | 62 38 57 | 62 48 10 | 62 10 55 | 62 19 7 | Après pôles changés.. | 62 20 17 | 62 49 19 | | | |
| | | Frey. | 62 38 27 | 62 50 42 | 63 20 5 | 63 47 35 | | | | | Avant pôles changés.. | 63° 9' 12" | 62° 49' 41" | Inclinaison | |
| | | 2 ^e exp. | ..... | ..... | ..... | 62 35 35 | 62 45 10 | 62 17 17 | 62 22 35 | Après pôles changés.. | 63 30 9 | 62 49 41 | définitive. | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 2. | | | | | | | | | | REMARQUES. | |
|--------------|------------------------------|--|---|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|--|---|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| | | | SYDNEY, PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | |
| Lm. | 1819. | | 62°45' 0" | 62°53' 0" | 63°23' 0" | 63°45' 0" | 62°45' 0" | 62°65' 0" | 62°17' 0" | 62°25' 0" | | Ces séries d'inclinaisons ont été faites sur les points immédiatement déterminés précédemment à la même date. | |
| | Déc. 7, après midi. | | 47 | 55 | 22 | 57 | 52 | 60 | 17 | 30 | | Observation faite sur la pile de la boussole de déclinaison. | |
| | | | 45 | 53 | 23 | 47 | 45 | 53 | 18 | 25 | | | |
| | | | 40 | 53 | 22 | 50 | 45 | 53 | 15 | 30 | | | |
| | | | 47 | 55 | 25 | 50 | 45 | 58 | 15 | 30 | | | |
| | | | 43 | 53 | 30 | 48 | 45 | 58 | 25 | 33 | | | |
| | | | 62 45 0 | 62 50 0 | 63 20 0 | 63 32 0 | 62 40 0 | 62 55 0 | 62 17 0 | 62 25 0 | | | |
| | | | 38 | 53 | 25 | 57 | 50 | 57 | 12 | 30 | | | |
| | | | 45 | 55 | 30 | 57 | 45 | 60 | 15 | 25 | | | |
| | | | 38 | 55 | 35 | 60 | 43 | 55 | 15 | 23 | | | |
| | | | 35 | 50 | 27 | 60 | 45 | 55 | 23 | 30 | | | |
| | | | 45 | 50 | 27 | 60 | 40 | 28 | 15 | 37 | | | |
| | | | 62 30 0 | 62 45 0 | 63 0 0 | 63 37 0 | 62 30 0 | 62 45 0 | 61 57 0 | 62 10 0 | | | |
| | | | 30 | 48 | 2 | 35 | 30 | 43 | 58 | 15 | | | |
| | | | 25 | 47 | 2 | 33 | 25 | 40 | 52 | 7 | | | |
| | | | 30 | 45 | 2 | 43 | 25 | 40 | 55 | 10 | | | |
| | | | 30 | 47 | 7 | 43 | 30 | 45 | 60 | 10 | | | |
| | | | 27 | 43 | 15 | 40 | 32 | 35 | 55 | 12 | | | |
| | | | 62 32 0 | 62 45 0 | 63 8 0 | 63 35 0 | 62 37 0 | 62 37 0 | 62 0 0 | 62 15 0 | | | |
| | | | 33 | 45 | 15 | 35 | 28 | 35 | 61 57 | 17 | | | |
| | | | 32 | 40 | 12 | 35 | 35 | 35 | 62 7 | 20 | | | |
| | | | 33 | 40 | 10 | 12 | 30 | 40 | 15 | 30 | | | |
| | | | 30 | 45 | 12 | 42 | 30 | 40 | 12 | 27 | | | |
| | | | 30 | 43 | 18 | 47 | 23 | 40 | 15 | 25 | | | |
| | | | 62 38 0 | 62 52 0 | 63 30 0 | 63 50 0 | 62 43 0 | 62 55 0 | 62 20 0 | 62 25 0 | | | |
| | | | 47 | 52 | 20 | 50 | 38 | 50 | 25 | 33 | | | |
| | | | 35 | 50 | 30 | 60 | 35 | 55 | 18 | 37 | | | |
| | | | 33 | 53 | 25 | 57 | 33 | 48 | 25 | 35 | | | |
| | | | 35 | 55 | 27 | 60 | 35 | 50 | 30 | 35 | | | |
| | | | 50 | 55 | 35 | 57 | 33 | 52 | 32 | 42 | | | |
| | | | 62 35 0 | 62 48 0 | 63 20 0 | 63 69 0 | 62 35 0 | 62 50 0 | 62 18 0 | 62 33 0 | | | |
| | | | 33 | 50 | 27 | 57 | 30 | 50 | 25 | 40 | | | |
| | | | 47 | 62 | 37 | 60 | 40 | 50 | 25 | 32 | | | |
| | | | 50 | 57 | 35 | 60 | 30 | 45 | 25 | 17 | | | |
| | | | 52 | 62 | 30 | 60 | 30 | 43 | 23 | 33 | | | |
| | | | 45 | 65 | 35 | 58 | 35 | 45 | 27 | 40 | | | |
| | | | 62 30 0 | 62 43 0 | 63 15 0 | 63 52 0 | 62 30 0 | 62 47 0 | 61 57 0 | 62 13 0 | | | |
| | | | 28 | 42 | 12 | 47 | 23 | 48 | 60 | 18 | | | |
| | | | 30 | 45 | 17 | 47 | 28 | 35 | 70 | 13 | | | |
| | | | 37 | 52 | 17 | 50 | 27 | 38 | 70 | 22 | | | |
| | | | 35 | 47 | 23 | 50 | 20 | 35 | 65 | 20 | | | |
| | | | 30 | 48 | 25 | 60 | 28 | 42 | 77 | 30 | | | |
| | | | 62 32 0 | 62 38 0 | 63 25 0 | 63 47 0 | 62 30 0 | 62 40 0 | 61 15 0 | 62 35 0 | | | |
| | | | 33 | 45 | 22 | 60 | 23 | 37 | 20 | 30 | | | |
| | | | 30 | 42 | 20 | 57 | 30 | 40 | 22 | 33 | | | |
| | | | 30 | 47 | 15 | 55 | 30 | 33 | 25 | 35 | | | |
| | | | 30 | 43 | 20 | 55 | 32 | 47 | 15 | 35 | | | |
| | | | 28 | 40 | 17 | 58 | 28 | 42 | 25 | 33 | | | |
| Moyennes... | Lm. | 62 36 52 | 62 49 10 | 63 17 10 | 63 45 0 | ..... | ..... | ..... | ..... | ..... |  |  |  |
| | 1 ^{re} exp. | ..... | ..... | ..... | ..... | 62 37 17 | 62 47 10 | 62 9 27 | 62 22 32 | | | | |
| | Lm. | 62 36 23 | 62 48 52 | 63 24 7 | 63 55 22 | ..... | ..... | ..... | ..... | ..... |  |  |  |
| | 2 ^e exp. | ..... | ..... | ..... | ..... | 62 31 5 | 62 44 52 | 62 18 55 | 62 29 58 | | | | |
| | | | | | | | | | | | Avant pôles changés.. 63° 7' 3" { 62° 48' 5" { 62° 49' 35" { Inclinaison définitive. | | |
| | | | | | | | | | | | Après pôles changés.. 62 20 7 { 62 51 12 { | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. (2 ^e résultat.) | | | | | | REMARQUES. | |
|---------------|---|---|---|---|---|---|---|--|--|
| | | INDICES. | APRÈS PÔLES CHANGÉS. (Série B.) | PÔLES RECHARGÉS PAR 40 FRICTIONS. (Série D.) | | | | | |
| | | | | Face à l'O. | | Face à l'E. | | | |
| — | — | — | — | Haut. | Bas. | Haut. | Bas. | — | |
| | | | | | | | | SYDNEY, PORT-JACKSON (NOUVELLE-HOLLANDE). | |
| Lim. | 1819. Déc. 12, depuis 7 ^h matin pour la série D. | N. attiré. | 63°40' 0" 25 32 30 30 17 25 30 27 32 32 30 | 63°45' 0" 40 40 37 37 32 37 40 45 40 30 40 | 62°45' 0" 37 30 32 30 27 37 10 37 32 37 30 | 62°52' 0" 47 50 55 42 40 55 45 45 45 42 | | Nota. Observation faite sur les mêmes points azimuthaux que la précédente, dont celle-ci est un développement. | |
| | | Grands arcs. | 63 32 0 40 30 30 22 27 ·30 25 45 37 30 22 | 63 45 0 42 37 40 37 30 32 55 40 30 40 42 | 62 32 0 27 30 27 30 27 30 27 27 37 30 37 30 | 62 40 0 45 50 45 45 42 42 42 42 37 45 42 | | | |
| | | N. repoussé. | 63 12 0 7 15 12 10 12 15 10 15 15 7 5 | 63 15 0 22 27 20 22 22 17 22 27 22 22 25 22 | 62 15 0 5 7 15 12 15 15 45 7 5 10 12 | 62 17 0 20 20 17 27 30 35 37 17 17 25 17 | | | |
| | | Petits arcs. | 63 15 0 10 30 7 12 15 12 10 15 5 12 | 63 17 0 25 22 22 27 27 27 20 22 20 25 | 62 7 0 7 12 15 12 5 10 20 15 7 10 | 62 15 0 22 22 25 25 30 37 37 27 27 22 27 | | | |
| Moyennes . . | Lm. 63°28'31" 1 ^e exp. 63 21 2 Lm. 2 ^e exp. | | 63 30 37 62 21 29 | 62 34 47 62 56 59 | | | Après pôles changés..... 63°28'31' Après pôles rechargés..... 62 56 59 | 62°43'36" Inclinaison moyenne. | |
| | | | | | | | | 62 44 27 | |

INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1.
 (3^e résultat.)

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. (3 ^e résultat.) | | | | | | | | REMARQUES. | | |
|----------------|------------------------|------------|--|-----------|-------------|-----------|---|-----------|-------------|-----------|--|--|--|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. (Série A.) | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. (Série B.) | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| R. | 1819. | N. attiré. | 63°45' 0" | 63°40' 0" | 62 45' 0" | 62°40' 0" | 62°27' 0" | 62°42' 0" | 62°70' 0" | 62°75' 0" | Not. Cette expérience a été faite sur les mêmes points azimutaux que la précédente. | | |
| Déc. | 35 | 47 | 32 | 35 | 25 | 40 | 47 | 50 | | | | | |
| 11 , | 35 | 45 | 45 | 42 | 25 | 55 | 50 | 62 | | | | | |
| pour | 50 | 50 | 52 | 30 | 22 | 40 | 62 | 55 | | | | | |
| les | 45 | 57 | 40 | 40 | 20 | 35 | 52 | 60 | | | | | |
| séries | 35 | 40 | 35 | 40 | 20 | 47 | 50 | 55 | | | | | |
| a et b. | 35 | 45 | 35 | 42 | 15 | 37 | 40 | 50 | | | | | |
| | 35 | 50 | 50 | 35 | 15 | 20 | 50 | 30 | | | | | |
| | 35 | 45 | 47 | 40 | 10 | 22 | 55 | 40 | | | | | |
| | 35 | 40 | 47 | 40 | 12 | 20 | 50 | 50 | | | | | |
| | 40 | 50 | 35 | 45 | 20 | 30 | 60 | 52 | | | | | |
| | 40 | 52 | 42 | 30 | 22 | 30 | 50 | 60 | | | | | |
| | Grands arcs. | | | | | | | | | | | | |
| | N. repoussé. | | 63 45 0 | 63 35 0 | 62 55 0 | 62 45 0 | 62 32 0 | 62 40 0 | 62 60 0 | 62 50 0 | | | |
| | N. attiré. | | 45 | 45 | 45 | 35 | 45 | 5 | 40 | 45 | | | |
| | N. repoussé. | | 55 | 45 | 35 | 37 | 32 | 40 | 47 | 52 | | | |
| | N. attiré. | | 30 | 47 | 47 | 45 | 27 | 40 | 60 | 60 | | | |
| | N. repoussé. | | 30 | 47 | 35 | 32 | 25 | 45 | 45 | 50 | | | |
| | N. attiré. | | 42 | 42 | 45 | 35 | 27 | 32 | 60 | 70 | | | |
| | N. repoussé. | | 42 | 45 | 30 | 40 | 15 | 37 | 50 | 60 | | | |
| | N. attiré. | | 35 | 47 | 45 | 40 | 25 | 42 | 50 | 50 | | | |
| | N. repoussé. | | 40 | 50 | 30 | 40 | 12 | 42 | 52 | 55 | | | |
| | N. attiré. | | 30 | 45 | 42 | 37 | 12 | 37 | 52 | 45 | | | |
| | N. repoussé. | | 45 | 45 | 42 | 35 | 17 | 40 | 47 | 60 | | | |
| | N. attiré. | | 40 | 42 | 30 | 35 | 12 | 50 | 50 | 50 | | | |
| | Petits arcs. | | | | | | | | | | | | |
| | N. attiré. | | 63 30 0 | 63 25 0 | 62 10 0 | 62 22 0 | 62 2 0 | 62 30 0 | 62 25 0 | 62 45 0 | | | |
| | N. repoussé. | | 20 | 37 | 15 | 25 | 5 | 32 | 27 | 37 | | | |
| | N. attiré. | | 35 | 22 | 22 | 22 | 15 | 20 | 45 | 40 | | | |
| | N. repoussé. | | 30 | 27 | 27 | 27 | 15 | 30 | 40 | 50 | | | |
| | N. attiré. | | 22 | 20 | 27 | 20 | 27 | 10 | 45 | 35 | | | |
| | N. repoussé. | | 17 | 30 | 22 | 22 | 25 | 22 | 45 | 30 | | | |
| | N. attiré. | | 20 | 32 | 27 | 35 | 27 | 61 47 | 30 | 40 | | | |
| | N. repoussé. | | 37 | 35 | 32 | 27 | 22 | 62 15 | 32 | 35 | | | |
| | N. attiré. | | 32 | 17 | 17 | 27 | 20 | 12 | 40 | 40 | | | |
| | N. repoussé. | | 17 | 37 | 17 | 22 | 25 | 61 55 | 35 | 45 | | | |
| | N. attiré. | | 37 | 40 | 25 | 25 | 15 | 62 20 | 35 | 27 | | | |
| | N. repoussé. | | 17 | 27 | 20 | 35 | 61 50 | 20 | 35 | 35 | | | |
| | Petits arcs. | | | | | | | | | | | | |
| | N. attiré. | | 63 15 0 | 63 15 0 | 62 27 0 | 62 15 0 | 62 0 0 | 62 22 0 | 62 30 0 | 62 45 0 | | | |
| | N. repoussé. | | 25 | 20 | 5 | 32 | 10 | 25 | 42 | 47 | | | |
| | N. attiré. | | 30 | 45 | 25 | 27 | 10 | 30 | 42 | 42 | | | |
| | N. repoussé. | | 25 | 27 | 25 | 25 | 10 | 15 | 45 | 40 | | | |
| | N. attiré. | | 17 | 15 | 35 | 20 | 0 | 17 | 32 | 30 | | | |
| | N. repoussé. | | 17 | 32 | 20 | 22 | 15 | 30 | 30 | 40 | | | |
| | N. attiré. | | 27 | 27 | 17 | 25 | 27 | 20 | 30 | 42 | | | |
| | N. repoussé. | | 27 | 32 | 25 | 25 | 27 | 15 | 37 | 35 | | | |
| | N. attiré. | | 37 | 40 | 25 | 27 | 22 | 25 | 40 | 40 | | | |
| | N. repoussé. | | 32 | 30 | 32 | 35 | 17 | 30 | 35 | 40 | | | |
| | N. attiré. | | 22 | 25 | 22 | 30 | 10 | 27 | 45 | 45 | | | |
| | N. repoussé. | | 22 | 40 | 27 | 30 | 5 | 27 | 35 | 45 | | | |
| Moyennes... R. | 1 ^{re} exp | | 63 32 22 | 63 37 21 | 62 31 55 | 62 32 1 | ..... | ..... | ..... | ..... | Avant pôles changés. 63° 3' 25" | | |
|  |  |  | ..... | ..... | 62 17 46 | 62 28 0 | 62 44 17 | 62 46 35 | ..... | ..... | 62°48'47" Incl. moyenne. | | |
| | | | | | | | | | | | Après pôles changés. 62 34 10 | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. (4 ^e résultat et résultat définitif.) | | | | REMARQUES. | | |
|---|---|--|--|---|-----------|---|-----------|---|
| | | INDICES. (Série b.) | APRÈS PÔLES CHANGÉS. (Série d.) | PÔLES RECHANGÉS PAR 40 FRICTIONS. (Série d.) | | | | |
| | | | | Face à l'O. | | Face à l'E. | | |
| | | | | Haut. | Bas. | Haut. | Bas. | |
| A SYDNEY, PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | |
| R. | 1819. | N. attiré. | | 63°30' 0" | 62°50' 0" | 62°42' 0" | 62°50' 0" | NOTA. Voir l'expédition précédente et celle des pages 95 et 96. |
| Déc. | 42 | 45 | | 42 | 45 | 55 | 40 | |
| 12 , | 20 | 42 | | 20 | 42 | 47 | 45 | |
| pour la série d. | 40 | 35 | | 40 | 35 | 52 | 45 | |
| | 40 | 45 | | 40 | 45 | 30 | 52 | |
| | 30 | 30 | | 30 | 40 | 40 | 42 | |
| | 25 | 37 | | 25 | 37 | 35 | 45 | |
| | 37 | 40 | | 37 | 40 | 40 | 50 | |
| | 32 | 40 | | 32 | 40 | 45 | 45 | |
| | 42 | 25 | | 42 | 25 | 40 | 45 | |
| | 37 | 40 | | 37 | 40 | 40 | 37 | |
| | 35 | 35 | | 35 | 40 | 40 | 45 | |
| | 63 40 0 | 63 45 0 | | 62 40 0 | 62 55 0 | | | |
| | 45 | 50 | | 45 | 45 | | | |
| | 37 | 40 | | 37 | 42 | | | |
| | 40 | 40 | | 40 | 40 | | | |
| | 35 | 52 | | 35 | 52 | | | |
| | 30 | 47 | | 30 | 40 | | | |
| | 40 | 37 | | 40 | 37 | | | |
| | 30 | 40 | | 30 | 37 | | | |
| | 42 | 40 | | 42 | 35 | | | |
| | 52 | 40 | | 52 | 40 | | | |
| | 40 | 37 | | 40 | 42 | | | |
| | 35 | 42 | | 35 | 45 | | | |
| | 63 15 0 | 63 20 0 | | 62 10 0 | 62 22 0 | | | |
| | 17 | 12 | | 17 | 25 | | | |
| | 15 | 15 | | 15 | 17 | | | |
| | 17 | 12 | | 17 | 0 | | | |
| | 12 | 17 | | 12 | 20 | | | |
| | 17 | 20 | | 17 | 22 | | | |
| | 20 | 17 | | 20 | 27 | | | |
| | 25 | 27 | | 25 | 22 | | | |
| | 20 | 17 | | 20 | 17 | | | |
| | 20 | 22 | | 20 | 20 | | | |
| | 5 | 15 | | 61 55 | 62 52 | | | |
| | 15 | 20 | | 15 | 20 | | | |
| | 63 15 0 | 63 17 0 | | 62 15 0 | 62 22 0 | | | |
| | 10 | 15 | | 10 | 0 | | | |
| | 22 | 17 | | 22 | 12 | | | |
| | 15 | 20 | | 15 | 22 | | | |
| | 5 | 12 | | 5 | 17 | | | |
| | 17 | 20 | | 17 | 20 | | | |
| | 20 | 32 | | 20 | 25 | | | |
| | 20 | 25 | | 20 | 40 | | | |
| | 20 | 15 | | 15 | 15 | | | |
| | 15 | 12 | | 12 | 5 | | | |
| | 20 | 20 | | 20 | 15 | | | |
| | 15 | 22 | | 22 | 25 | | | |
| Moyennes.... | R. 2 ^e exp ^e . { 62°34'10" | 63 26 25 | 63 29 54 | 62 29 51 | 62 33 14 | Avant pôles changés. 62°34'10" Après pôles changés. 62 59 51 | 62°47' 0" | 62°47'53" Incl. moyenne. 62 48 47 |
| | R. 1 ^e exp ^e. { ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| | Lm. | ..... | ..... | ..... | ..... | ..... | ..... |  |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 3. | | | | | | | | | | REMARQUES. | |
|---|---|--|--|--|--|--|--|--|--|--|-------------|----------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| A SYDNEY, PORT-JACKSON (NOUVELLE-HOLLANDE). | | | | | | | | | | | | | |
| B. | 1819. Déc. 14. de 9 ^h 10 ^m matin à midi. | 62° 07' 0" 60 52 52 52 52 52 | 63° 30' 0" 30 22 17 22 22 | 62° 52' 0" 55 5 60 0 52 | 63° 0' 0" 2 37 37 37 30 30 | 62° 30' 0" 52 55 52 45 52 | 62° 52' 0" 45 37 52 45 52 | 62° 52' 0" 45 45 45 45 45 | 62° 52' 0" 45 45 45 45 45 | Asymétrie moyenne où les observations ont été faites. | | | |
| | | Grands arcs. N. repoussé. N. attiré. | | | | | | | | Face au N. | Face au S. | | |
| | | 62 55 0 52 52 52 57 52 | 63 30 0 20 22 17 25 22 | 62 55 0 63 7 0 60 0 10 17 | 62 37 0 37 37 35 35 37 | 62 52 0 45 45 50 45 50 | 62 45 0 45 45 50 45 50 | 62 45 0 45 45 45 45 45 | 62 45 0 45 45 45 45 45 | 214° 26' + 34° 27' 30' 2 Face à l'O.. 124° 26' 45' + 180° = 304° 26' 45' | 54° 27' 30" | | |
| | | Petits arcs. N. repoussé. N. attiré. | | | | | | | | Pointe où l'aig. est perpendic. | | | |
| | | 62 45 0 40 45 45 45 45 | 63 17 0 15 15 7 15 15 | 62 45 0 45 45 45 45 45 | 62 22 0 57 60 60 60 60 | 62 30 0 22 30 22 30 30 | 62 45 0 37 45 37 40 37 | 62 45 0 30 30 30 40 30 | 62 45 0 30 30 30 30 30 | Expériences faites sous la verrière de la maison ; mais l'aiguille est bien isolée de toutes ferrures. | | | |
| | | Grands arcs. N. repoussé. N. attiré. | | | | | | | | Asymétrie moyenne où les observations ont été faites. | | | |
| | | 62 50 0 45 45 47 47 50 | 63 22 0 15 22 15 15 15 | 62 45 0 45 53 52 57 45 | 62 22 0 30 22 22 20 30 | 62 30 0 37 30 30 37 37 | 62 30 0 30 30 30 30 30 | 62 30 0 30 30 30 30 30 | 62 30 0 30 30 30 30 30 | Asymétrie moyenne où les observations ont été faites. | | | |
| Db. | | Grands arcs. N. repoussé. N. attiré. | | | | | | | | Asymétrie moyenne où les observations ont été faites. | | | |
| | | 63 12 0 12 12 0 0 0 | 63 10 0 17 15 15 17 15 | 62 60 0 55 60 60 55 55 | 63 0 0 0 0 0 0 0 | 62 42 0 40 37 37 37 35 | 62 40 0 45 45 45 40 45 | 62 40 0 40 32 45 37 32 | 62 55 0 50 55 50 32 30 | Asymétrie moyenne où les observations ont été faites. | | | |
| | | Petits arcs. N. repoussé. N. attiré. | | | | | | | | Asymétrie moyenne où les observations ont été faites. | | | |
| | | 63 12 0 10 15 15 15 15 | 63 15 0 30 22 25 35 22 | 62 62 0 57 60 60 62 60 | 62 60 0 57 60 55 60 55 | 62 40 0 40 40 35 45 45 | 62 40 0 40 40 55 37 40 | 62 40 0 35 30 30 30 30 | 62 52 0 52 30 37 37 30 | Asymétrie moyenne où les observations ont été faites. | | | |
| | | Grands arcs. N. repoussé. N. attiré. | | | | | | | | Asymétrie moyenne où les observations ont été faites. | | | |
| | | 62 55 0 52 60 55 50 50 | 63 7 0 17 20 15 15 15 | 62 60 0 60 45 45 45 40 | 62 45 0 45 22 20 20 20 | 62 15 0 22 25 25 27 25 | 62 22 0 25 15 25 27 20 | 62 7 0 7 15 17 20 15 | 62 45 0 30 30 32 30 30 | Asymétrie moyenne où les observations ont été faites. | | | |
| | | Petits arcs. N. repoussé. N. attiré. | | | | | | | | Asymétrie moyenne où les observations ont été faites. | | | |
| | | 62 50 0 55 50 50 52 52 | 63 5 0 5 7 0 15 5 | 62 40 0 40 40 45 40 45 | 62 45 0 45 22 22 17 22 | 62 17 0 20 22 22 17 22 | 62 20 0 27 27 27 22 25 | 62 10 0 7 15 37 15 20 | 62 30 0 30 30 30 37 30 | Asymétrie moyenne où les observations ont été faites. | | | |
| Moyennes...{ | B. | 62 50 10 | 63 19 27 | 62 52 0 | 62 59 40 | ..... | ..... | ..... | ..... | Avant pôles changés. 63° 0' 19" | | | |
| | Db. | 63 1 12 | 63 15 10 | 62 54 0 | 62 22 27 | 62 28 55 | 62 33 55 | ..... | ..... | ..... | ..... | ..... |  |
|  |  | ..... | ..... | ..... | ..... | 62 26 17 | 62 38 30 | ..... | ..... | ..... | ..... | ..... |  |
| | | | | | | | | | | Après pôles changés. 62° 37' 7" { 62° 48' 43" | | | |
| | | | | | | | | | | Avant pôles changés. 62° 53' 12" { 62° 42' 33" | | | |
| | | | | | | | | | | Après pôles changés. 62° 31' 54" { 62° 45' 38" | | Indice décalé. | |

INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6.
(2^e série.)

| OBSERVATEURS. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6. | | | | | | | | REMARQUES. | |
|--|--|--------------|--|------------|-------------|------------|---------------------------------|------------|-------------|------------|---|--|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| A SYDNEY, EN RADE (PORT-JACKSON), NOUVELLE-HOLLANDE. | | | | | | | | | | | | |
| B. | 1819 Déc. 14, avant pôles changés | N. attiré. | 62° 0' 0" | 62° 20' 0" | 62° 30' 0" | 62° 22' 0" | 62° 20' 0" | 62° 15' 0" | 62° 90' 0" | 62° 87' 0" | Nota. Cette observation ayant été faite concurremment avec la précédente, on s'est servi des mêmes points aximataux déterminés plus haut. | |
| | | Grands arcs. | 20 | 30 | 30 | 12 | 25 | 10 | 95 | 65 | Observation.... Assez bonne. | |
| | | | 15 | 20 | 22 | 15 | 12 | 25 | 60 | 55 | Pointe élevée.... Nord. | |
| | | | 15 | 20 | 15 | 15 | 25 | 35 | 45 | 42 | | |
| | | | 7 | 20 | 30 | 15 | 20 | 2 | 40 | 45 | | |
| | | | 7 | 15 | 30 | 15 | 20 | 35 | 40 | 35 | | |
| | | | 22 | 17 | 25 | 7 | 25 | 35 | 60 | 40 | | |
| | | | 20 | 20 | 25 | 15 | 35 | 35 | 40 | 35 | | |
| | | | 22 | 30 | 25 | 0 | 25 | 30 | 30 | 40 | | |
| | | | 15 | 25 | 22 | 22 | 35 | 35 | 35 | 37 | | |
| | | N. repoussé. | 62 15 0 | 62 20 0 | 62 40 0 | 62 37 0 | 62 7 0 | 62 10 0 | 63 45 0 | 63 35 0 | | |
| | | | 45 | 32 | 30 | 37 | 20 | 15 | 30 | 5 | | |
| | | | 22 | 30 | 35 | 35 | 32 | 15 | 5 | 0 | | |
| | | | 22 | 30 | 30 | 25 | 10 | 45 | 15 | 12 | | |
| | | | 25 | 40 | 25 | 25 | 30 | 15 | 20 | 5 | | |
| | | | 15 | 37 | 30 | 22 | 25 | 25 | 7 | 0 | | |
| | | | 30 | 35 | 15 | 30 | 30 | 20 | 62 55 | 0 | | |
| | | | 15 | 30 | 22 | 25 | 0 | 10 | 55 | 62 55 | | |
| | | | 20 | 30 | 30 | 22 | 25 | 10 | 50 | 55 | | |
| | | | 22 | 30 | 20 | 20 | 0 | 20 | 55 | 50 | | |
| G. | 23, après pôles changés | N. attiré. | 61 60 0 | 62 0 0 | 62 15 0 | 62 7 0 | 61 55 0 | 62 0 0 | 62 85 0 | 62 70 0 | | |
| | | Grands arcs. | 50 | 15 | 15 | 7 | 82 | 25 | 75 | 57 | | |
| | | | 85 | 5 | 15 | 10 | 87 | 17 | 55 | 45 | | |
| | | | 82 | 30 | 20 | 12 | 70 | 25 | 47 | 47 | | |
| | | | 75 | 15 | 15 | 10 | 95 | 35 | 40 | 50 | | |
| | | | 45 | 22 | 15 | 15 | 97 | 40 | 50 | 47 | | |
| | | | 80 | 7 | 17 | 15 | 95 | 37 | 30 | 30 | | |
| | | | 82 | 20 | 15 | 10 | 115 | 35 | 35 | 35 | | |
| | | | 90 | 27 | 15 | 12 | 55 | 35 | 45 | 80 | | |
| | | | 65 | 30 | 15 | 7 | 75 | 25 | 30 | 30 | | |
| | | Petits arcs. | 61 55 0 | 61 45 0 | 62 15 0 | 61 67 0 | 61 62 0 | 61 55 0 | 62 75 0 | 62 80 0 | | |
| | | | 47 | 55 | 7 | 55 | 70 | 50 | 70 | 70 | | |
| | | | 40 | 60 | 0 | 55 | 70 | 65 | 45 | 60 | | |
| | | | 40 | 60 | 15 | 57 | 70 | 70 | 30 | 35 | | |
| | | | 57 | 70 | 5 | 67 | 85 | 85 | 45 | 35 | | |
| | | | 60 | 65 | 20 | 67 | 90 | 50 | 37 | 50 | | |
| | | | 52 | 60 | 15 | 67 | 50 | 50 | 45 | 40 | | |
| | | | 55 | 75 | 15 | 60 | 50 | 70 | 35 | 40 | | |
| | | | 55 | 75 | 15 | 62 | 70 | 55 | 30 | 55 | | |
| | | | 60 | 75 | 15 | 70 | 60 | 60 | 60 | 65 | | |
| Moyennes. | B. G. | 62 10 13 | 62 18 33 | 62 20 15 | 62 13 42 | ..... | ..... | ..... | ..... | ..... | Avant pôles changés. 62° 15' 41" | |
| | 1 ^{re} sér. | ..... | ..... | ..... | ..... | 62 18 6 | 62 18 9 | 62 54 54 | 62 53 28 | ..... | ..... | 62° 25' 55" |
| | Lm. 2 ^{re} sér. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 62° 29' 16" Inclinaison définitive. |
| | | 62 32 36 | | | | | | | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|---------------|---|--|-----------|---------------------------------|-----------|-------------|-----------|---------------------------------|-----------|-------------|------|--|--|
| | | INDICES. | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| Lm. | 1819. Déc. 27, de 11 ^h 20' matin à 1 ^h 40' soir. | Grands arcs. | 65°45' 0" | 65°57' 0" | 66°10' 0" | 66°10' 0" | 67°17' 0" | 67° 2' 0" | 66°72' 0" | 66°57' 0" | | Points du cercle azimuthal parallèles à la quille. | |
| | | N. attiré. | 32 | 50 | 17 | 10 | 12 | 20 | 70 | 52 | | | |
| | | | 32 | 72 | 5 | 17 | 22 | 25 | 72 | 50 | | | |
| | | | 42 | 37 | 15 | 10 | 25 | 22 | 55 | 50 | | | |
| | | | 55 | 47 | 2 | 15 | 25 | 12 | 65 | 55 | | | |
| | | | 32 | 42 | 0 | 17 | 22 | 25 | 72 | 50 | | | |
| | | 65 67 0 | 65 57 0 | 66 15 0 | 66 35 0 | 67 35 0 | 67 30 0 | 67 27 0 | 67 10 0 | | | | |
| | | | 55 | 60 | 27 | 35 | 37 | 47 | 25 | 10 | | | |
| | | | 52 | 47 | 20 | 30 | 50 | 22 | 12 | 0 | | | |
| | | | 50 | 67 | 20 | 30 | 37 | 37 | 12 | 22 | | | |
| | | | 50 | 70 | 15 | 32 | 35 | 32 | 27 | 15 | | | |
| | | | 57 | 47 | 20 | 40 | 32 | 27 | 35 | 10 | | | |
| | | 65 40 0 | 65 40 0 | 65 42 0 | 65 55 0 | 67 10 0 | 67 42 0 | 66 55 0 | 67 5 0 | | | | |
| | | | 42 | 42 | 55 | 55 | 7 | 25 | 52 | 15 | | | |
| | | | 37 | 40 | 52 | 55 | 22 | 40 | 67 | 12 | | | |
| | | | 45 | 50 | 47 | 60 | 7 | 27 | 62 | 12 | | | |
| | | | 42 | 47 | 45 | 42 | 15 | 32 | 57 | 15 | | | |
| | | | 47 | 40 | 40 | 57 | 7 | 27 | 57 | 7 | | | |
| | | Petits arcs. | 65 57 0 | 65 42 0 | 65 50 0 | 65 55 0 | 67 17 0 | 67 27 0 | 66 52 0 | 66 65 0 | | | |
| | | | 40 | 42 | 47 | 62 | 5 | 17 | 67 | 57 | | | |
| | | | 47 | 42 | 42 | 67 | 17 | 22 | 60 | 67 | | | |
| | | | 70 | 65 | 40 | 67 | 15 | 30 | 75 | 55 | | | |
| | | | 67 | 47 | 35 | 65 | 7 | 30 | 67 | 50 | | | |
| | | | 52 | 37 | 45 | 60 | 10 | 27 | 72 | 62 | | | |
| G. | | Grands arcs. | 65 40 0 | 65 45 0 | 66 10 0 | 66 40 0 | 66 80 0 | 67 20 0 | 67 35 0 | 67 30 0 | | | |
| | | N. attiré. | 50 | 65 | 15 | 40 | 75 | 25 | 45 | 20 | | | |
| | | | 45 | 65 | 20 | 25 | 60 | 5 | 20 | 20 | | | |
| | | | 40 | 65 | 20 | 25 | 57 | 5 | 30 | 30 | | | |
| | | | 30 | 50 | 10 | 30 | 70 | 12 | 17 | 25 | | | |
| | | | 30 | 42 | 25 | 45 | 80 | 10 | 45 | 20 | | | |
| | | Petits arcs. | 66 10 0 | 65 55 0 | 66 20 0 | 66 15 0 | 67 10 0 | 67 15 0 | 67 20 0 | 67 45 0 | | | |
| | | N. repoussé. | 20 | 55 | 25 | 40 | 25 | 10 | 20 | 35 | | | |
| | | | 15 | 75 | 10 | 25 | 5 | 15 | 35 | 20 | | | |
| | | | 40 | 65 | 20 | 37 | 15 | 37 | 30 | 10 | | | |
| | | | 2 | 85 | 10 | 5 | 15 | 40 | 32 | 35 | | | |
| | | | 10 | 60 | 15 | 35 | 25 | 35 | 25 | 15 | | | |
| | | 65 55 0 | 65 65 0 | 65 42 0 | 66 0 0 | 66 40 0 | 66 62 0 | 67 15 0 | 66 85 0 | | | | |
| | | | 55 | 55 | 45 | 0 | 50 | 52 | 25 | 80 | | | |
| | | | 70 | 55 | 50 | 25 | 65 | 60 | 0 | 55 | | | |
| | | | 50 | 70 | 45 | 55 | 50 | 60 | 30 | 50 | | | |
| | | | 60 | 65 | 50 | 15 | 45 | 65 | 25 | 75 | | | |
| | | | 55 | 60 | 45 | 10 | 45 | 70 | 0 | 70 | | | |
| | | Petits arcs. | 65 80 0 | 66 20 0 | 65 60 0 | 66 15 0 | 67 10 0 | 67 15 0 | 66 50 0 | 66 60 0 | | | |
| | | N. repoussé. | 60 | 5 | 70 | 10 | 5 | 20 | 55 | 50 | | | |
| | | | 75 | 15 | 60 | 5 | 5 | 5 | 35 | 50 | | | |
| | | | 55 | 30 | 65 | 10 | 5 | 15 | 60 | 50 | | | |
| | | | 70 | 30 | 55 | 10 | 15 | 22 | 45 | 55 | | | |
| | | | 70 | 25 | 50 | 15 | 10 | 30 | 55 | 60 | | | |
| Lm. | | 65 48 7 | 65 49 52 | 65 59 25 | 66 10 52 | ..... | ..... | ..... | ..... | ..... |  | Avant pôles changés. 65°57' 4" | |
| Moyennes. | | 66 0 17 | 66 5 55 | 66 4 52 | 66 22 10 | 67 20 20 | 67 26 57 | 67 8 37 | 67 3 27 | | | Après pôles changés. 67 14 51 | |
| G. | | 66 0 17 | 66 5 55 | 66 4 52 | 66 22 10 | 67 5 55 | 67 14 22 | 67 16 12 | 67 13 32 | | | 66°35' 57" | |
| | | | | | | | | | | | | 66°35' 57" | |
| | | | | | | | | | | | | Indication définitive. | |
| | | | | | | | | | | | | Avant pôles changés. 66° 8 19 | |
| | | | | | | | | | | | | 66° 40 25 | |
| | | | | | | | | | | | | Après pôles changés. 67 12 31 | |

Avant pôles changés. 65°57' 4"
 Après pôles changés. 67 14 51
 Avant pôles changés. 66° 8 19
 Après pôles changés. 67 12 31

Division de gauche. 184° 26'
 Division de droite. 175° 34'

Mer. Bell.
 Roulis.... Faibles.
 Tangages... Nuls.
 Observation.. Assez bonne.

Pointe élevée.... Nord.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|--|--|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|--|--|------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| TRAVERSÉE DU PORT-JACKSON À LA BAIE-FRANÇAISE, ILE CONTI (ARCHIPEL DES MALOUINES). | | | | | | | | | | | | | |
| Lm. | 1820. Janvier, 9, de 11 ^h matin à 2 ^h 30 soir. | Grands arcs. N. repoussé. N. attiré. | 75°55' 0" | 76°35' 0" | 75°17' 0" | 75°57' 0" | 76°52' 0" | 75°35' 0" | 74°82' 0" | 74°37' 0" | Pointe du cercle animalier parallèles à la quille. | | |
| | | | 62 | 35 | 12 | 45 | 22 | 60 | 80 | 97 | | | |
| | | | 75 | 40 | 20 | 62 | 45 | 27 | 97 | 55 | | | |
| | | | 77 | 20 | 17 | 7 | 12 | 7 | 42 | 42 | | | |
| | | | 87 | 47 | 7 | 15 | 22 | 37 | 57 | 75 | | | |
| | | | 47 | 35 | 40 | 15 | 30 | 82 | 77 | 70 | | | |
| | | | 75 65 0 | 75 52 0 | 74 27 0 | 74 80 0 | 75 17 0 | 74 40 0 | 75 10 0 | 74 60 0 | | | |
| | | | 70 | 70 | 77 | 75 | 17 | 90 | 60 | 55 | | | |
| | | | 90 | 97 | 35 | 30 | 52 | 45 | 65 | 87 | | | |
| | | | 47 | 75 | 25 | 97 | 47 | 35 | 30 | 52 | | | |
| | | | 57 | 50 | 45 | 70 | 30 | 32 | 52 | 82 | | | |
| | | | 82 | 45 | 90 | 75 | 40 | 92 | 74 52 | 35 | | | |
| Frey. | Petits arcs. N. repoussé. N. attiré. | 75 42 0 | 76 27 0 | 73 87 0 | 74 52 0 | 74 5 0 | 75 45 0 | 74 82 0 | 74 50 0 | Division de gauche. Division de droite. | | | |
| | | 45 | 37 | 60 | 65 | 30 | 55 | 87 | 52 | 184° 26' | 175° 34' | | |
| | | 80 | 40 | 25 | 52 | 35 | 37 | 80 | 52 | | | | |
| | | 70 | 35 | 90 | 47 | 40 | 37 | 52 | 75 | | | | |
| | | 70 | 27 | 45 | 45 | 102 | 22 | 65 | 62 | | | | |
| | | 40 | 32 | 55 | 77 | 100 | 74 50 | 42 | 50 | | | | |
| | | 75 57 0 | 75 105 0 | 74 25 0 | 74 52 0 | 74 22 0 | 74 85 0 | 74 50 0 | 75 15 0 | Pointe élevée.... Nord. | | | |
| | | 57 | 70 | 2 | 60 | 65 | 115 | 52 | 30 | Mer..... Un peu grosse. | | | |
| | | 95 | 60 | 30 | 80 | 17 | 52 | 70 | 32 | Roulis..... Forts. | | | |
| | | 72 | 97 | 5 | 82 | 75 | 103 | 67 | 10 | Tangages... Forts. | | | |
| | | 92 | 95 | 7 | 65 | 40 | 85 | 67 | 37 | Observation.. Mauvaise. | | | |
| Moyennes. | Lm. | 75 50 0 | 77 0 0 | 74 20 0 | 74 20 0 | 74 85 0 | 75 35 0 | 75 15 0 | 75 30 0 | Le temps était très-froid aujourd'hui et les mouvements du vaisseau assez considérables pour gêner extrêmement l'observateur; j'attribue à ces causes les grandes variations de nos résultats partiels d'inclinaison. | | | |
| | | 95 | 75 40 | 65 | 45 | 95 | 35 | 55 | 25 | Pour remédier autant que possible à l'inconveniit d'observer en plein air, je vais faire installer la boussole d'inclinaison sous la dunette: c'est là qu'on l'observera à l'avenir. | | | |
| | | 50 | 100 | 60 | 35 | 85 | 30 | 20 | 35 | A l'égard du changement des pôles, le peu de différence qui se trouve entre les résultats, avant et après la réaimantation, tend à me faire croire que réellement les pôles n'ont point été intervertis. L'observateur croit cependant ne s'être pas trompé. Je prendrai des mesures pour m'assurer de ce fait à l'avenir. | | | |
| | | 90 | 75 | 45 | 35 | 65 | 20 | 0 | 45 | Voyez l'observation d'inclinaison, à la page suivante, et, plus loin, la remarque qui accompagne les expériences du 24 janvier 1820. | | | |
| | | 50 | 85 | 65 | 50 | 55 | 5 | 0 | 30 | | | | |
| | | 80 | 105 | 65 | 55 | 85 | 5 | 25 | 30 | | | | |
| | Frey. | 75 100 0 | 76 45 0 | 74 55 0 | 74 45 0 | 75 15 0 | 74 45 0 | 75 10 0 | 75 40 0 | | | | |
| | | 50 | 25 | 35 | 75 80 | 50 | 95 | 25 | 0 | | | | |
| | | 90 | 20 | 50 | 10 | 55 | 90 | 20 | 15 | | | | |
| | | 75 | 15 | 75 | 65 | 55 | 50 | 25 | 15 | | | | |
| | | 50 | 15 | 45 | 60 | 15 | 60 | 10 | 35 | | | | |
| | | 90 | 10 | 75 | 60 | 35 | 55 | 40 | 50 | | | | |
| | | 75 60 0 | 75 95 0 | 74 65 0 | 74 65 0 | 74 70 0 | 74 100 0 | 74 105 0 | 74 50 0 | | | | |
| | | 45 | 70 | 25 | 65 | 30 | 80 | 50 | 55 | | | | |
| | | 75 | 95 | 0 | 55 | 80 | 90 | 45 | 70 | | | | |
| | | 50 | 55 | 85 | 50 | 45 | 100 | 60 | 55 | | | | |
| | | 75 | 60 | 70 | 30 | 70 | 15 | 110 | 75 | | | | |
| | | 50 | 110 | 35 | 40 | 60 | 90 | 75 | 50 | | | | |
| | | 75 50 0 | 75 40 0 | 74 45 0 | 75 25 0 | 75 20 0 | 74 70 0 | 75 40 0 | 74 55 0 | | | | |
| | | 95 | 95 | 65 | 30 | 0 | 65 | 35 | 55. | | | | |
| | | 30 | 70 | 100 | 20 | 30 | 60 | 35 | 50. | | | | |
| | | 60 | 35 | 15 | 0 | 35 | 65 | 45 | 40 | | | | |
| | | 90 | 110 | 85 | 45 | 45 | 50 | 40 | 75 | | | | |
| | | 80 | 60 | 65 | 45 | 55 | 60 | 40 | 70 | | | | |
| | Lm. | 76 7 20 | 76 23 15 | 74 36 27 | 75 12 5 | ..... | ..... | ..... | ..... | Avant pôles changés. 75°34' 47" | | | |
|  |  | ..... | ..... | ..... | ..... | 75 25 42 | 75 25 37 | 75 14 30 | 75 5 55 | Après pôles changés. 75 17 56 | 75°26' 21" | 75°27' 13" | |
| | Frey. | 76 7 55 | 76 20 50 | 74 54 35 | 75 10 25 | ..... | ..... | ..... | ..... | Inclinaison définitive. | | | |
|  |  | ..... | ..... | ..... | ..... | 75 21 27 | 75 12 5 | 75 23 32 | 75 13 45 | Avant pôles changés. 75 38 26 | 75 28 4 | 75 28 4 | |
|  |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Après pôles changés. 75 17 42 | | | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.— AIGUILLE N° 5. | | | | | | | | | | REMARQUES. | |
|--|--|---|---------------------------------|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|--|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| TRAVERSÉE DU PORT-JACKSON A LA BAIE-FRANÇAISE, ILE CONTI (ARCHIPEL DES MALOUINES). | | | | | | | | | | | | | |
| Lm. | 1820. Janvier, 19, de 11 ^h 30' matin, à 3 ^h 30' soir. | Grande arc. | 69°52' 0" | 71°30' 0" | 69°27' 0" | 70°32' 0" | 71°10' 0" | 71°25' 0" | 70°32' 0" | 70°25' 0" | | NOTA. Depuis plusieurs jours les observations d'inclinaison ne pouvaient pas être faites sur le pont à cause du mauvais temps et de l'état de la mer : j'ai fait installer l'instrument sous la dunette, et les mouvements de roulis et de tangage n'étant pas trop forts aujourd'hui, j'ai fait reprendre la série de ces observations ; mais afin d'avoir un moyen de plus pour s'assurer qu'on avait changé réellement les pôles pendant la réaménagement, une des extrémités de l'aiguille a été marquée, avec de l'encre, de la lettre A, et l'observateur s'est astreint à noter, avant et après l'opération du changement des pôles, si cette lettre se trouvait en bas ou au haut de la division du limbe. | |
| | | N. repoussé. \| N. attiré. | 70 25 | 70 22 | 70 37 | 52 | 0 | 70 55 | 32 | 42 | | | |
| | | | 22 | 71 12 | 69 57 | 37 | 17 | 71 55 | 71 22 | 40 | | | |
| | | | 15 | 7 | 70 37 | 30 | 70 57 | 10 | 70 52 | 27 | | | |
| | | | 10 | 27 | 55 | 37 | 52 | 5 | 37 | 10 | | | |
| | | | 55 | 70 45 | 25 | 69 52 | 71 27 | 5 | 71 30 | 10 | | | |
| | | 70 32 0 | 70 7 0 | 69 52 0 | 70 30 0 | 70 20 0 | 71 40 0 | 70 35 0 | 71 0 0 | | | | |
| | | 69 30 | 30 | 70 5 | 25 | 71 5 | 50 | 71 12 | 70 55 | | | | |
| | | 70 25 | 27 | 69 50 | 50 | 0 | 70 40 | 20 | 71 15 | | | | |
| | | 20 | 69 57 | 70 30 | 25 | 10 | 71 7 | 70 47 | 55 | | | | |
| | | 7 | 50 | 30 | 45 | 70 17 | 47 | 71 50 | 30 | | | | |
| | | 32 | 47 | 15 | 2 | 71 5 | 70 45 | 42 | 45 | | | | |
| | | 69 57 0 | 70 10 0 | 70 40 0 | 70 42 0 | 71 30 0 | 71 55 0 | 70 45 0 | 71 35 0 | | | | |
| | | 70 12 | 35 | 69 57 | 45 | 30 | 50 | 71 57 | 7 | | | | |
| | | 69 30 | 69 55 | 70 55 | 37 | 27 | 22 | 20 | 40 | | | | |
| | | 35 | 70 20 | 20 | 30 | 70 40 | 17 | 52 | 70 45 | | | | |
| | | 68 50 | 42 | 7 | 40 | 71 30 | 72 2 | 70 47 | 15 | | | | |
| | | 69 40 | 17 | 15 | 45 | 70 15 | 71 52 | 10 | 32 | | | | |
| | | 70 12 0 | 70 30 0 | 69 47 0 | 70 0 0 | 71 37 0 | 70 47 0 | 70 47 0 | 70 45 0 | | | | |
| | | 10 | 40 | 47 | 30 | 30 | 71 25 | 35 | 22 | | | | |
| | | 69 42 | 17 | 70 15 | 30 | 72 5 | 70 47 | 27 | 30 | | | | |
| | | 40 | 7 | 15 | 20 | 71 35 | 71 22 | 71 20 | 71 25 | | | | |
| | | 37 | 69 55 | 10 | 10 | 50 | 7 | 0 | 5 | | | | |
| | | 70 5 | 70 32 | 55 | 17 | 45 | 7 | 27 | 30 | | | | |
| Fr. | | Grands arcs. | | | | | | | | | | | |
| | | N. repoussé. \| N. attiré. | 69 55 0 | 69 90 0 | 70 5 0 | 70 45 0 | 71 25 0 | 70 55 0 | 70 55 0 | 70 70 0 | | | |
| | | | 60 | 35 | 55 | 25 | 45 | 45 | 30 | 70 | | | |
| | | | 80 | 80 | 20 | 45 | 35 | 65 | 90 | 60 | | | |
| | | | 40 | 80 | 45 | 0 | 75 | 32 | 45 | 22 | | | |
| | | | 57 | 30 | 50 | 20 | 37 | 57 | 30 | 20 | | | |
| | | | 45 | 75 | 10 | 50 | 62 | 45 | 25 | 32 | | | |
| | | 70 25 0 | 69 30 0 | 70 20 0 | 70 35 0 | 70 90 0 | 70 42 0 | 70 35 0 | 70 65 0 | | | | |
| | | 15 | 105 | 30 | 30 | 20 | 45 | 50 | 55 | | | | |
| | | 25 | 65 | 45 | 70 | 105 | 40 | 5 | 30 | | | | |
| | | 10 | 15 | 50 | 75 | 70 | 75 | 50 | 10 | | | | |
| | | 30 | 115 | 25 | 2 | 50 | 52 | 35 | 55 | | | | |
| | | 15 | 45 | 30 | 5 | 72 5 | 40 | 20 | 72 25 | | | | |
| | | 69 35 0 | 69 65 0 | 70 35 0 | 69 75 0 | 70 45 0 | 70 45 0 | 70 50 0 | 70 45 0 | | | | |
| | | 55 | 90 | 30 | 45 | 105 | 75 | 55 | 35 | | | | |
| | | 30 | 55 | 37 | 80 | 107 | 57 | 65 | 42 | | | | |
| | | 45 | 60 | 40 | 75 | 55 | 65 | 82 | 17 | | | | |
| | | 70 | 95 | 25 | 5 | 60 | 75 | 55 | 60 | | | | |
| | | 50 | 92 | 69 55 | 65 | 60 | 75 | 65 | 2 | | | | |
| | | 69 55 0 | 69 45 0 | 69 95 0 | 70 25 0 | 71 50 0 | 70 52 0 | 69 45 0 | 70 55 0 | | | | |
| | | 80 | 90 | 75 | 50 | 45 | 80 | 70 85 | 80 | | | | |
| | | 60 | 65 | 50 | 0 | 0 | 45 | 65 | 85 | | | | |
| | | 80 | 47 | 40 | 17 | 55 | 105 | 62 | 15 | | | | |
| | | 95 | 20 | 85 | 50 | 37 | 70 | 15 | 52 | | | | |
| | | 75 | 102 | 75 | 69 57 | 22 | 60 | 77 | 15 | | | | |
| Moyennes... { | Lm. | 70 1 27 | 70 27 32 | 70 16 2 | 70 29 17 | ..... | 71 12 15 | 71 20 42 | 71 8 15 | 70 53 32 | | | |
| | Fr. | 70 4 27 | 70 6 17 | 70 25 17 | 70 21 55 | ..... | 71 27 30 | 70 58 12 | 70 47 7 | 70 47 22 | | | |
| | | | | | | | | | | | Avant pôles changés. 70° 18' 35" { 70° 43' 1" 70° 40' 8" Après pôles changés. 71 7 26 } Inclinaison définitive. | | |
| | | | | | | | | | | | Avant pôles changés. 70 14 29 } 70 37 10 Après pôles changés. 71 0 3 } | | |

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 6. | | | | | | | | | | | | REMARQUES. | |
|---------------|---------------------|--|------------|--------------|-----------|-------------|-----------|-------------|-----------|---------------------------------|------|--|--|------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| Lm. | 1820. | 74°50' 0" | 74°35' 0" | 75°92' 0" | 75°25' 0" | 68°30' 0" | 68°25' 0" | 69°25' 0" | 68°30' 0" | | | | | | |
| | Janv. | 30 | 32 | 90 | 30 | 67 | 20 | 60 | 85 | | | | | | |
| | 26, | 35 | 35 | 30 | 40 | 0 | 22 | 40 | 117 | | | | | | |
| | de | 37 | 35 | 27 | 30 | 27 | 40 | 40 | 87 | | | | | | |
| | 11° 30' | 47 | 40 | 17 | 70 | 67 | 5 | 35 | 95 | | | | | | |
| | matin | 47 | 45 | 80 | 50 | 35 | 52 | 40 | 115 | | | | | | |
| | à 2 ^h 0' | | | | | | | | | | | | | | |
| | soir. | 74 55 0 | 74 55 0 | 75 30 0 | 75 20 0 | 67 62 0 | 67 72 0 | 69 50 0 | 69 10 0 | | | | | | |
| | | Grands arcs. | N. attiré. | N. repoussé. | | | | | | | | | | | |
| | | 65 | 62 | 20 | 25 | 65 | 82 | 50 | 20 | | | | | | |
| | | 62 | 27 | 20 | 15 | 55 | 80 | 40 | 50 | | | | | | |
| | | 55 | 45 | 25 | 30 | 52 | 75 | 60 | 50 | | | | | | |
| | | 55 | 60 | 37 | 2 | 45 | 77 | 20 | 35 | | | | | | |
| | | 60 | 45 | 2 | 10 | 62 | 47 | 40 | 57 | | | | | | |
| | | | | | | | | | | | | | | | |
| | | 74 52 0 | 74 75 0 | 75 50 0 | 75 30 0 | 67 42 0 | 68 42 0 | 69 10 0 | 69 15 0 | | | | | | |
| | | 60 | 40 | 20 | 45 | 57 | 25 | 22 | 45 | | | | | | |
| | | 60 | 80 | 37 | 50 | 45 | 35 | 10 | 65 | | | | | | |
| | | 25 | 75 | 35 | 15 | 65 | 22 | 20 | 35 | | | | | | |
| | | 55 | 75 | 30 | 25 | 45 | 65 | 5 | 15 | | | | | | |
| | | 45 | 40 | 50 | 42 | 60 | 32 | 0 | 32 | | | | | | |
| | | | | | | | | | | | | | | | |
| | | 74 52 0 | 74 35 0 | 75 20 0 | 75 5 0 | 68 60 0 | 68 47 0 | 68 70 0 | 69 22 0 | | | | | | |
| | | 62 | 30 | 37 | 22 | 57 | 32 | 85 | 30 | | | | | | |
| | | 47 | 35 | 12 | 5 | 47 | 47 | 117 | 5 | | | | | | |
| | | 60 | 50 | 30 | 0 | 55 | 47 | 100 | 25 | | | | | | |
| | | 55 | 52 | 30 | 7 | 30 | 45 | 70 | 5 | | | | | | |
| | | 55 | 65 | 35 | 15 | 27 | 42 | 55 | 7 | | | | | | |
| | | | | | | | | | | | | | | | |
| G. | | 75 15 0 | 74 65 0 | 75 40 0 | 75 10 0 | 68 0 0 | 68 55 0 | 69 45 0 | 69 15 0 | | | | | | |
| | | 0 | 50 | 20 | 50 | 0 | 25 | 30 | 50 | | | | | | |
| | | 30 | 60 | 20 | 40 | 0 | 15 | 20 | 35 | | | | | | |
| | | 20 | 55 | 40 | 35 | 0 | 45 | 30 | 60 | | | | | | |
| | | 25 | 55 | 5 | 35 | 5 | 30 | 40 | 45 | | | | | | |
| | | 20 | 55 | 0 | 40 | 5 | 60 | 45 | 50 | | | | | | |
| | | | | | | | | | | | | | | | |
| | | 75 5 0 | 75 20 0 | 75 5 0 | 75 30 0 | 68 10 0 | 68 30 0 | 69 35 0 | 69 25 0 | | | | | | |
| | | 0 | 15 | 0 | 15 | 15 | 40 | 20 | 50 | | | | | | |
| | | 0 | 20 | 5 | 35 | 10 | 45 | 30 | 25 | | | | | | |
| | | 0 | 15 | 5 | 25 | 30 | 40 | 35 | 40 | | | | | | |
| | | 5 | 22 | 20 | 15 | 20 | 47 | 40 | 65 | | | | | | |
| | | 5 | 30 | 10 | 22 | 25 | 25 | 35 | 45 | | | | | | |
| | | | | | | | | | | | | | | | |
| | | 74 65 0 | 74 70 0 | 75 30 0 | 74 95 0 | 67 60 0 | 67 72 0 | 69 37 0 | 69 50 0 | | | | | | |
| | | 30 | 75 | 30 | 85 | 87 | 100 | 50 | 25 | | | | | | |
| | | 82 | 60 | 5 | 80 | 80 | 50 | 5 | 40 | | | | | | |
| | | 60 | 80 | 20 | 60 | 52 | 70 | 25 | 65 | | | | | | |
| | | 75 | 55 | 15 | 75 | 60 | 65 | 30 | 30 | | | | | | |
| | | 82 | 65 | 45 | 55 | 45 | 45 | 40 | 15 | | | | | | |
| | | | | | | | | | | | | | | | |
| | | 75 17 0 | 75 15 0 | 75 30 0 | 75 10 0 | 67 72 0 | 67 40 0 | 69 80 0 | 69 60 0 | | | | | | |
| | | 15 | 35 | 25 | 10 | 60 | 35 | 55 | 90 | | | | | | |
| | | 10 | 30 | 20 | 15 | 10 | 35 | 55 | 65 | | | | | | |
| | | 10 | 20 | 50 | 30 | 55 | 25 | 85 | 80 | | | | | | |
| | | 10 | 17 | 35 | 25 | 30 | 15 | 82 | 65 | | | | | | |
| | | 10 | 25 | 45 | 35 | 0 | 30 | 82 | 70 | | | | | | |
| | | | | | | | | | | | | | | | |
| Moyennes... { | Lm. | 74 51 5 | 74 48 40 | 75 35 40 | 75 25 20 | | 68 18 12 | 68 29 55 | 69 29 20 | 69 28 50 | | | | | |
| | | | | | | | | | | | | | | | |
| | G. | 75 9 37 | 75 12 2 | 75 21 40 | 75 23 37 | | 68 0 27 | 68 13 17 | 69 42 57 | 69 48 20 | | | | | |
| | | | | | | | | | | | | | | | |

Avant pôles changés 75°10'11" { = 72° 3' 22' 72° 4' 56'
 Après pôles changés 68 56 34 } Inclinaison définitive.
 Avant pôles changés 75 16 44 } = 72° 6' 30'
 Après pôles changés 68 56 16 }

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | | | REMARQUES. | | |
|--------------|---|--|---|-------------|----------|---------------------------------|----------|-------------|----------|----------|--|--|--|--------------------------------|---|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | |
| Lm. | 1820. Janv. 31, de 1 ^{er} 30' à 4 ^{me} 0' soir. | 68°52' 0" 69°60' 0" 69°15' 0" 69°15' 0" | 70°45' 0" 69°65' 0" 69°37' 0" 69°25' 0" | | | | | | | | | | | Points parallèles à la quille. | | |
| | | 47 25 | 47 45 | 37 | 60 | 62 | 25 | | | | | | | | Division de gauche. Division de droite. | |
| | | 82 35 | 45 15 | 25 | 82 | 75 | 20 | | | | | | | | 183° 22' 176° 38' | |
| | | 105 30 | 15 27 | 30 | 57 | 60 | 20 | | | | | | | | | |
| | | 67 30 | 47 5 | 25 | 52 | 30 | 47 | | | | | | | | | |
| | | 45 70 | 10 40 | 30 | 82 | 80 | 55 | | | | | | | | | |
| | | 69 22 0 | 68 75 0 | 68 55 0 | 68 22 0 | 70 15 0 | 70 30 0 | 69 45 0 | 69 70 0 | | | | | | | |
| | | 7 75 | 75 25 | 7 30 | 65 47 | | | | | | | | | | | |
| | | 2 95 | 90 35 | 20 65 | 65 77 | | | | | | | | | | | |
| | | 5 55 | 52 95 | 27 60 | 50 70 | | | | | | | | | | | |
| | | 10 47 | 60 20 | 30 22 | 85 75 | | | | | | | | | | | |
| | | 0 60 | 92 80 | 27 2 | 60 55 | | | | | | | | | | | |
| | | 68 10 0 | 68 27 0 | 69 15 0 | 69 27 0 | 69 52 0 | 70 40 0 | 69 45 0 | 69 75 0 | | | | | | | |
| | | 47 45 | 5 15 | 30 52 | 80 60 | | | | | | | | | | | |
| | | 15 10 | 15 27 | 75 40 | 40 72 | | | | | | | | | | | |
| | | 35 37 | 57 7 | 52 35 | 80 60 | | | | | | | | | | | |
| | | 15 15 | 22 27 | 55 55 | 30 40 | | | | | | | | | | | |
| | | 15 30 | 15 37 | 67 57 | 20 40 | | | | | | | | | | | |
| | | 68 30 0 | 68 30 0 | 69 22 0 | 68 60 0 | 69 45 0 | 69 55 0 | 69 27 0 | 69 55 0 | | | | | | | |
| | | 2 50 | 65 22 | 85 75 | 22 45 | | | | | | | | | | | |
| | | 22 47 | 22 50 | 40 47 | 50 55 | | | | | | | | | | | |
| | | 25 60 | 55 37 | 60 77 | 77 60 | | | | | | | | | | | |
| | | 27 60 | 15 77 | 50 60 | 60 30 | | | | | | | | | | | |
| | | 0 60 | 52 72 | 37 80 | 45 77 | | | | | | | | | | | |
| G. | | 68 70 0 | 68 85 0 | 68 70 0 | 69 55 0 | 70 25 0 | 70 15 0 | 69 65 0 | 69 30 0 | | | | | | | |
| | | 20 50 | 65 70 | 10 10 | 10 55 | | | | | | | | | | | |
| | | 65 60 | 75 50 | 20 30 | 30 70 | | | | | | | | | | | |
| | | 60 72 | 55 40 | 25 10 | 80 05 | | | | | | | | | | | |
| | | 30 87 | 95 35 | 25 5 | 35 105 | | | | | | | | | | | |
| | | 30 80 | 95 60 | 15 20 | 30 50 | | | | | | | | | | | |
| | | 68 75 0 | 68 30 0 | 69 25 0 | 69 35 0 | 70 55 0 | 70 45 0 | 69 85 0 | 69 80 0 | | | | | | | |
| | | 50 35 | 10 60 | 20 30 | 30 10 | | | | | | | | | | | |
| | | 65 75 | 20 75 | 35 40 | 40 65 | | | | | | | | | | | |
| | | 45 55 | 45 30 | 40 30 | 40 75 | | | | | | | | | | | |
| | | 45 55 | 70 40 | 40 20 | 65 95 | | | | | | | | | | | |
| | | 25 65 | 35 50 | 40 30 | 75 70 | | | | | | | | | | | |
| | | 68 20 0 | 68 55 0 | 69 70 0 | 69 35 0 | 69 10 0 | 69 70 0 | 69 0 0 | 69 60 0 | | | | | | | |
| | | 45 20 | 65 47 | 60 60 | 70 20 | | | | | | | | | | | |
| | | 20 50 | 25 35 | 20 55 | 60 60 | | | | | | | | | | | |
| | | 30 42 | 25 7 | 40 40 | 35 35 | | | | | | | | | | | |
| | | 45 10 | 70 45 | 40 35 | 35 25 | | | | | | | | | | | |
| | | 25 30 | 25 35 | 62 90 | 60 60 | | | | | | | | | | | |
| | | 68 50 0 | 68 55 0 | 68 75 0 | 69 35 0 | 69 35 0 | 69 20 0 | 69 30 0 | 69 0 0 | | | | | | | |
| | | 42 45 | 55 60 | 35 40 | 40 60 | | | | | | | | | | | |
| | | 75 45 | 40 45 | 25 60 | 80 15 | | | | | | | | | | | |
| | | 55 25 | 35 70 | 60 55 | 65 20 | | | | | | | | | | | |
| | | 75 65 | 75 40 | 45 55 | 45 45 | | | | | | | | | | | |
| | | 75 35 | 70 20 | 35 70 | 35 35 | | | | | | | | | | | |
| Moyennes...{ | Lm. | 68 43 37 | 69 2 0 | 69 25 7 | 69 9 15 | | 70 10 15 | 70 23 20 | 69 49 55 | 69 53 7 | | | | | | |
| | G. | 68 47 22 | 68 51 5 | 69 23 45 | 69 44 45 | | 70 4 2 | 70 9 10 | 69 49 10 | 69 48 20 | | | | | | |

Avant pôles changés 69° 5' 0" { = 69° 34' 35" } 69° 31' 38"
 Après pôles changés 70 4 9 } Inclinaison définitive.
 Avant pôles changés 69 11 44 } = 69 34 42
 Après pôles changés 69 57 41 }

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | | | REMARQUES. | |
|---------------|---|---|---|---|---|---|--|---|---|---------------------------------|------|-------------|------|---|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | Face à l'O. | | | | Face à l'E. | | | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| Lm. | 1820. Fév. 12, de 0 ^h 30' à 3 ^h 30' soir. | 53°50' 0" 45 60 50 50 45 | 53°35' 0" 65 37 35 65 55 | 54°70' 0" 40 22 62 25 37 | 55°45' 0" 37 52 60 50 30 | 56°70' 0" 60 60 75 55 77 | 57° 7' 0" 15 10 17 2 15 | 56°47' 0" 30 30 37 35 40 | 56°40' 0" 27 45 55 30 10 | | | | | Points parallèles à la quille. | |
| | | Grands arcs. N. repoussé. N. attiré. | | | | | | | | | | | | Division de gauche. 183° 22'. Division de droite. 176° 38'. | |
| | | 53 87 0 54 2 0 54 67 0 54 55 0 56 60 0 57 20 0 56 82 0 56 47 0 | | | | | | | | | | | | Cap... S. 45° E. Observé sous la dune. Mérid. Face à l'E. 176° 38' — 45° = 131° 38' magn. Face à l'O. 131° 38' — 180° = — 48° 22' Pointe élevée Nord. | |
| | | 85 67 90 57 65 | 35 35 7 25 10 | 42 70 60 47 57 | 50 62 55 60 60 | 55 25 62 30 60 | 32 87 77 55 42 | 67 45 70 57 65 | 55 45 70 57 65 | | | | | Pointe A. Avant de changer les pôles, en bas. Après les pôles changés, en haut. Mer..... Belle. Roulis..... Faibles. Tangages... Idem. Observation.. Bonne. | |
| | | 54 20 0 53 62 0 54 10 0 54 40 0 56 57 (*) 56 30 0 56 30 0 56 37 0 | | | | | | | | | | | | (*) Ici le cap devint S. 56° 15' E. on a alors pour face à l'O. — 59° 37' | |
| | | 7 15 2 0 0 | 60 65 60 67 57 | 32 25 10 30 15 | 52 35 50 35 45 | 60 62 60 62 45 | 77 65 42 65 42 | 20 15 27 20 25 | 40 37 47 60 35 | | | | | (a) On a maintenant cap à l'E. 22° 30' S., et par conséquent la position de l'alidade face à l'Est 109° 8'. | |
| | | 53 35 0 53 57 0 54 35 0 54 35 0 56 65 0 52 22 0 56 45 0 56 25 0 | | | | | | | | | | | | | |
| | | 25 25 30 27 40 | 55 67 67 27 65 | 32 32 45 40 32 | 47 45 60 47 40 | 47 62 7 20 62 | 2 65 7 42 15 | 30 45 45 42 47 | 42 35 35 60 27 | | | | | | |
| B. | | Grands arcs. N. repoussé. N. attiré. | | | | | | | | | | | | | |
| | | 54 15 0 53 52 0 55 0 0 54 60 0 56 52 0 57 22 0 56 77 0 56 52 0 | | | | | | | | | | | | | |
| | | 20 12 15 15 7 | 52 60 67 55 52 | 7 0 0 0 0 | 55 55 60 52 52 | 7 15 45 30 15 | 30 15 22 15 25 | 52 52 45 60 85 | 60 30 45 45 75 | | | | | | |
| | | 53 52 0 54 15 0 54 82 0 54 82 0 57 15 0 57 30 0 56 60 0 56 60 0 | | | | | | | | | | | | | |
| | | 57 55 57 60 60 | 17 15 15 15 20 | 52 82 82 67 52 | 52 15 15 22 75 | 30 15 25 45 30 | 25 67 67 67 20 | 60 67 67 67 55 | 45 67 37 67 45 | | | | | | |
| | | 53 32 0 53 30 0 54 52 0 54 37 0 56 60 0 56 60 0 56 60 0 56 60 0 | | | | | | | | | | | | | |
| | | 57 30 30 50 37 22 | 30 45 45 45 30 45 | 37 45 45 52 52 55 | 45 60 60 60 60 52 | 52 15 25 45 52 72 | 25 67 67 67 60 60 | 60 67 67 67 60 60 | 45 67 37 67 45 37 | | | | | | |
| | | 53 45 0 54 0 0 54 55 0 54 45 0 56 52 0 57 10 0 56 45 0 56 45 0 | | | | | | | | | | | | | |
| | | 45 45 55 55 15 | 7 7 0 7 0 | 60 52 62 57 55 | 45 45 45 52 45 | 60 45 55 55 67 | 7 20 25 12 15 | 60 32 53 60 37 | 30 45 47 60 47 | | | | | | |
| Moyennes... | Lm. | 53 55 42 54 3 2 54 38 35 54 45 37 ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  | Avant pôles changés 54°20'44" { = 55°40'57" Inclinaisons déterminées. | |
| | B. | 53 53 2 53 56 22 54 57 35 54 55 17 ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  | Après pôles changés 57° 1' 11" { = 55°42'15" Inclinaisons définitives. | |
| | | 56 54 45 57 16 37 ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  | Avant pôles changés 54°25'34" { = 55°42'15" Inclinaisons définitives. | |
| | | 56 55 55 56 48 27 ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  | Après pôles changés 56° 58' 56" { = 55°42'15" Inclinaisons définitives. | |

| OBSERVATIONS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 0. (1 ^{re} série.) | | | | | | | | | | REMARQUES. | |
|--|--|--|--|---|---|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| A LA BAIE-FRANÇAISE, SUR L'ILE CONTI (ARCHIPEL DES MALOUINES). | | | | | | | | | | | | | |
| Frey. | 1820. Avril, 6, de 9 ^h 50' à midi 40'. | Petits arcs. | N. repoussé. \| N. attiré. | 56°32' 0" 57° 0' 0" 56°27' 0" 56°45' 0" 54°47' 0" 55° 7' 0" 53°35' 0" 53°65' 0" | | | | | | | | Aximuts moyens où les observations ont été faites. | |
| | | 52 | 2 | 35 | 30 | 42 | 10 | 37 | 62 | | | | |
| | | 40 | 5 | 35 | 35 | 60 | 12 | 37 | 62 | | | | |
| | | 37 | 2 | 40 | 32 | 55 | 7 | 40 | 62 | | | | |
| | | 42 | 0 | 40 | 35 | 55 | 7 | 37 | 57 | | | | |
| | | 42 | 7 | 40 | 32 | 52 | 54 35 | 37 | 57 | | | | |
| | | 56 17 0 | 56 47 0 | 56 35 0 | 56 45 0 | 54 50 0 | 55 2 0 | 53 47 0 | 54 0 0 | | | | |
| | | 22 | 37 | 30 | 42 | 55 | 7 | 52 | 10 | | | | |
| | | 22 | 45 | 25 | 40 | 47 | 5 | 50 | 0 | | | | |
| | | 25 | 42 | 27 | 42 | 60 | 7 | 47 | 7 | | | | |
| | | 25 | 47 | 32 | 35 | 20 | 12 | 50 | 0 | | | | |
| | | 20 | 50 | 35 | 40 | 52 | 15 | 42 | 0 | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 56 12 0 | 56 47 0 | 56 25 0 | 56 27 0 | 54 22 0 | 54 40 0 | 53 32 0 | 53 45 0 | | |
| | | 15 | 45 | 25 | 25 | 27 | 45 | 30 | 32 | | | | |
| | | 30 | 47 | 27 | 17 | 40 | 50 | 25 | 47 | | | | |
| | | 25 | 47 | 20 | 22 | 35 | 52 | 30 | 42 | | | | |
| | | 25 | 45 | 12 | 5 | 35 | 57 | 30 | 42 | | | | |
| | | 25 | 47 | 17 | 35 | 40 | 52 | 25 | 45 | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 56 25 0 | 56 45 0 | 56 17 0 | 56 20 0 | 54 32 0 | 54 45 0 | 53 22 0 | 53 37 0 | | |
| | | 25 | 45 | 17 | 15 | 40 | 50 | 30 | 47 | | | | |
| | | 15 | 47 | 17 | 27 | 35 | 45 | 30 | 40 | | | | |
| | | 20 | 45 | 12 | 30 | 30 | 47 | 25 | 42 | | | | |
| | | 25 | 45 | 17 | 27 | 35 | 52 | 17 | 37 | | | | |
| | | 20 | 45 | 17 | 37 | 40 | 50 | 27 | 40 | | | | |
| Frey. | | Petits arcs. | N. repoussé. \| N. attiré. | 56 40 0 | 56 60 0 | 56 30 0 | 56 30 0 | 54 50 0 | 54 65 0 | 53 35 0 | 53 55 0 | | |
| | | 37 | 55 | 37 | 32 | 50 | 65 | 40 | 57 | | | | |
| | | 35 | 65 | 25 | 27 | 45 | 62 | 55 | 60 | | | | |
| | | 35 | 60 | 32 | 25 | 45 | 57 | 52 | 65 | | | | |
| | | 35 | 52 | 27 | 22 | 57 | 77 | 50 | 65 | | | | |
| | | 35 | 60 | 30 | 20 | 57 | 72 | 52 | 60 | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 56 20 0 | 56 42 0 | 56 32 0 | 56 45 0 | 54 60 0 | 55 17 0 | 53 45 0 | 53 60 0 | | |
| | | 20 | 45 | 30 | 47 | 47 | 10 | 42 | 57 | | | | |
| | | 30 | 52 | 35 | 52 | 47 | 2 | 42 | 57 | | | | |
| | | 17 | 45 | 30 | 40 | 50 | 20 | 42 | 52 | | | | |
| | | 10 | 42 | 30 | 40 | 55 | 5 | 42 | 60 | | | | |
| | | 15 | 42 | 30 | 40 | 47 | 0 | 37 | 57 | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 56 22 0 | 56 47 0 | 56 15 0 | 56 30 0 | 54 35 0 | 54 52 0 | 53 27 0 | 53 40 0 | | |
| | | 22 | 47 | 20 | 27 | 35 | 55 | 25 | 40 | | | | |
| | | 22 | 47 | 22 | 35 | 37 | 55 | 27 | 45 | | | | |
| | | 20 | 47 | 25 | 30 | 40 | 55 | 47 | 42 | | | | |
| | | 27 | 45 | 30 | 32 | 37 | 57 | 27 | 50 | | | | |
| | | 22 | 47 | 30 | 37 | 40 | 50 | 30 | 42 | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 56 20 0 | 56 47 0 | 56 25 0 | 56 25 0 | 54 40 0 | 54 52 0 | 53 27 0 | 53 45 0 | | |
| | | 17 | 45 | 30 | 42 | 40 | 55 | 27 | 42 | | | | |
| | | 17 | 42 | 30 | 40 | 37 | 57 | 20 | 52 | | | | |
| | | 22 | 45 | 32 | 15 | 37 | 55 | 25 | 42 | | | | |
| | | 25 | 45 | 25 | 15 | 35 | 42 | 30 | 15 | | | | |
| | | 25 | 45 | 25 | 25 | 32 | 50 | 30 | 40 | | | | |
| Moyennes... Frey. | Freys... 1 ^{re} exp. Lim. 2 ^e exp. | 56 26 35 56 49 45 56 25 35 56 28 12 | 56 49 45 56 30 50 56 30 50 56 32 12 | 54 41 55 54 57 7 53 34 45 53 51 35 | 55 0 17 53 36 30 53 50 0 | 53 34 45 53 51 35 | 53 51 35 | Avant pôles changés... 56°33'11" \| 55° 24' 46" \| 55° 25' 10" Après pôles changés... 54 16 21 \| 55 0 17 \| Inclinaison Avant pôles changés... 56 33 36 \| 55 25 33 \| définitive. Après pôles changés... 54 17 41 \| 55 0 17 \| |  |

VOYAGE AUTOEUR DU MONDE.

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 0. (2 ^e série.) | | | | | | | | | | REMARQUES. | |
|--|--|---|---|---------------------------------------|---|---|---|---|---|--|---|-------------------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| A LA BAIE-FRANÇAISE, SUR L'ILE CONTI (ARCHIPEL DES MALOUINES). | | | | | | | | | | | | | |
| Lm. | 1820. Avril, 6, de 9 ^h 50' à midi 40'. | Petits arcs. N. repoussé. \| N. attiré. | 56°40' 0" 27 35 32 27 30 | 57° 0' 0" 0 5 5 5 5 | 56°30' 0" 30 55 30 30 30 | 56°37' 0" 40 62 50 47 55 | 54°57' 0" 55 52 40 52 62 | 54°55' 0" 60 65 63 60 65 | 53°50' 0" 42 45 50 40 30 | 53°62' 0" 70 67 55 62 62 | Nota. Les animaux où cette observation a été faite sont les mêmes que ceux de l'observation précédente. | | |
| | | Grands arcs. N. repoussé. \| N. attiré. | 56 40 0 42 30 30 20 42 | 56 72 0 65 62 65 50 57 | 56 30 0 15 30 25 30 25 | 56 47 0 40 50 55 40 55 | 54 35 0 10 17 12 5 57 | 55 2 0 0 12 5 2 | 53 42 0 75 50 40 72 72 | 53 63 0 40 62 62 40 72 | | | |
| | | Petits arcs. N. repoussé. \| N. attiré. | 56 17 0 15 17 17 17 15 | 56 32 0 37 35 40 42 35 | 55 57 0 70 72 65 82 70 | 56 20 0 20 15 20 27 22 | 54 27 0 27 15 17 27 30 | 54 35 0 27 35 37 35 37 | 53 22 0 20 27 22 20 20 | 53 37 0 35 47 47 42 47 | | | |
| | | Grands arcs. N. repoussé. \| N. attiré. | 56 15 0 10 17 17 17 25 | 56 32 0 35 40 30 37 25 | 56 40 0 10 12 20 17 10 | 56 32 0 30 35 20 57 32 | 54 10 0 20 12 17 22 22 | 54 27 0 32 25 37 22 40 | 53 27 0 32 30 32 22 25 | 53 37 0 47 47 45 45 40 | | | |
| Lm. | | Petits arcs. N. repoussé. \| N. attiré. | 56 30 0 27 37 37 27 45 | 56 60 0 57 47 55 62 60 | 56 25 0 25 47 30 35 27 | 56 50 0 47 50 45 47 37 | 54 57 0 55 50 50 57 55 | 55 2 0 10 2 0 5 10 | 53 35 0 40 35 40 35 35 | 53 62 0 62 55 60 90 60 | | | |
| | | Grands arcs. N. repoussé. \| N. attiré. | 56 42 0 47 32 42 60 32 | 56 62 0 57 55 57 60 55 | 56 35 0 32 32 35 30 30 | 56 55 0 45 50 55 60 45 | 54 50 0 50 57 47 40 42 | 55 2 0 7 0 0 0 0 | 53 42 0 40 35 45 35 40 | 53 60 0 60 55 62 57 57 | | | |
| | | Petits arcs. N. repoussé. \| N. attiré. | 56 15 0 25 20 30 7 20 | 56 45 0 45 47 47 47 45 | 56 12 0 10 15 17 15 12 | 56 22 0 32 30 27 30 30 | 54 30 0 37 32 30 27 32 | 54 45 0 47 42 47 47 42 | 53 15 0 27 20 22 25 27 | 53 45 0 47 37 47 45 40 | | | |
| | | Grands arcs. N. repoussé. \| N. attiré. | 56 50 0 20 15 17 17 20 | 56 37 0 40 40 42 40 45 | 56 15 0 17 20 27 42 10 | 56 32 0 22 32 27 42 17 | 54 30 0 30 25 35 37 30 | 54 42 0 50 47 45 45 47 | 53 20 0 30 20 22 17 17 | 53 45 0 37 47 42 40 45 | | | |
| Moyennes... | | Lm. { 56 24 45 2 ^e exp. { Frey. { 56 29 20 | 56 48 47 56 50 17 | 56 21 52 56 22 57 | 56 37 50 56 38 35 | 56 41 2 | 54 32 37 54 47 35 54 54 20 | 53 36 27 53 39 57 53 52 22 | 53 52 30 53 52 22 | Avant pôles changés.. 56°33'19" Après pôles changés.. 54°12'17" | 55°22'48" 55°23'50" | Inclinaison définitive. | |
| | | 1 ^{er} exp. { ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Avant pôles changés.. 56 35 17 Après pôles changés.. 54 14 26 | 55 24 52 | | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. (1 ^{re} expérience.) | | | | | | | | | | REMARQUES. | |
|--|------------------------|---|---------------------------------|----------|-------------|----------|---------------------------------|----------|-------------|----------|---------------------------------|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| A LA BAIE-FRANÇAISE, SUR L'ILE CONTI (ARCHIPEL DES MALOUINES). | | | | | | | | | | | | | |
| Lm. | 1820. | | 56°17'0" | 56°37'0" | 54°7'2" 0" | 55°20'0" | 54°57'0" | 54°70'0" | 55°15'0" | 55°22'0" | | Aximuts moyens où les observations ont été faites. | |
| | Avril, | N. attiré. | 7 | 25 | 62 | 27 | 47 | 60 | 12 | 17 | | | |
| | 6, | | 5 | 25 | 67 | 27 | 47 | 60 | 7 | 22 | | | |
| | de 2 ^h 15' | | 15 | 32 | 57 | 20 | 47 | 57 | 5 | 17 | | | |
| | à 5 ^h | | 12 | 37 | 57 | 12 | 40 | 67 | 17 | 22 | | | |
| | soir. | | 10 | 45 | 55 | 17 | 37 | 67 | 7 | 12 | | | |
| | | | 10 | 27 | 70 | 10 | 47 | 65 | 10 | 0 | | | |
| | | | 12 | 20 | 67 | 32 | 47 | 55 | 0 | 12 | | | |
| | | | 5 | 45 | 67 | 25 | 37 | 55 | 5 | 15 | | | |
| | | | 5 | 30 | 67 | 17 | 35 | 60 | 0 | 20 | | | |
| | | | 15 | 20 | 65 | 30 | 47 | 65 | 25 | 30 | | | |
| | | | 10 | 30 | 55 | 20 | 45 | 55 | 54 57 | 54 55 | | | |
| | | Petits arcs. | | | | | | | | | | | |
| | | N. repoussé. | | | | | | | | | | | |
| | | | 56 0 0 | 56 40 0 | 54 85 0 | 55 17 0 | 54 57 0 | 54 60 0 | 55 20 0 | 55 30 0 | | | |
| | | | 7 | 25 | 65 | 12 | 40 | 62 | 15 | 32 | | | |
| | | | 2 | 37 | 67 | 20 | 50 | 65 | 22 | 27 | | | |
| | | | 5 | 25 | 67 | 22 | 45 | 60 | 22 | 30 | | | |
| | | | 15 | 32 | 57 | 27 | 45 | 60 | 20 | 32 | | | |
| | | | 5 | 35 | 65 | 20 | 60 | 67 | 0 | 35 | | | |
| | | | 7 | 27 | 57 | 12 | 47 | 57 | 20 | 42 | | | |
| | | | 7 | 27 | 57 | 17 | 45 | 55 | 12 | 30 | | | |
| | | | 2 | 27 | 60 | 27 | 42 | 57 | 12 | 30 | | | |
| | | | 2 | 22 | 55 | 17 | 47 | 65 | 2 | 30 | | | |
| | | | 5 | 20 | 77 | 12 | 47 | 60 | 12 | 30 | | | |
| | | | 5 | 25 | 55 | 17 | 45 | 62 | 15 | 25 | | | |
| | | Grands arcs. | | | | | | | | | | | |
| | | N. repoussé. | | | | | | | | | | | |
| | | | 55 32 0 | 55 50 0 | 54 57 0 | 55 7 0 | 54 55 0 | 54 55 0 | 54 52 0 | 55 22 0 | | | |
| | | | 42 | 67 | 60 | 7 | 30 | 50 | 62 | 5 | | | |
| | | | 45 | 62 | 55 | 7 | 30 | 57 | 60 | 15 | | | |
| | | | 45 | 62 | 50 | 2 | 30 | 57 | 62 | 15 | | | |
| | | | 40 | 65 | 55 | 0 | 40 | 52 | 57 | 17 | | | |
| | | | 45 | 62 | 47 | 10 | 27 | 42 | 75 | 0 | | | |
| | | | 40 | 67 | 55 | 15 | 35 | 47 | 60 | 17 | | | |
| | | | 47 | 72 | 50 | 0 | 30 | 52 | 62 | 7 | | | |
| | | | 47 | 70 | 47 | 5 | 27 | 45 | 52 | 15 | | | |
| | | | 40 | 62 | 45 | 0 | 30 | 50 | 60 | 17 | | | |
| | | | 47 | 55 | 60 | 5 | 27 | 40 | 57 | 12 | | | |
| | | | 42 | 72 | 50 | 0 | 27 | 50 | 60 | 15 | | | |
| | | | 55 42 0 | 55 52 0 | 54 57 0 | 55 2 0 | 54 30 0 | 54 45 0 | 54 67 0 | 55 10 0 | | | |
| | | | 35 | 67 | 47 | 5 | 30 | 35 | 62 | 2 | | | |
| | | | 47 | 65 | 50 | 0 | 30 | 35 | 60 | 17 | | | |
| | | | 45 | 62 | 55 | 2 | 27 | 47 | 55 | 7 | | | |
| | | | 42 | 55 | 45 | 10 | 25 | 37 | 55 | 12 | | | |
| | | | 42 | 70 | 42 | 0 | 20 | 47 | 65 | 5 | | | |
| | | | 55 | 77 | 50 | 5 | 37 | 50 | 50 | 2 | | | |
| | | | 57 | 72 | 45 | 7 | 30 | 50 | 57 | 12 | | | |
| | | | 37 | 50 | 52 | 10 | 32 | 40 | 57 | 15 | | | |
| | | | 42 | 67 | 50 | 2 | 30 | 47 | 62 | 10 | | | |
| | | | 45 | 60 | 57 | 7 | 37 | 47 | 60 | 15 | | | |
| | | | 35 | 75 | 50 | 54 55 | 30 | 50 | 57 | 5 | | | |
| Moyennes... Lm. | { 55 55 26 | 56 16 56 | 54 57 29 | 55 12 5 | ..... | ..... | ..... | ..... | ..... | ..... | Avant pôles changés.. 55°35'30" | | |
| 1 ^{re} exp | ..... | ..... | ..... | ..... | 54 38 31 | 54 54 1 | 55 5 22 | 55 17 12 | ..... | ..... | 55°17'8" Inclin. moyen. | | |
| | | | | | | | | | | | Après pôles changés.. 54 58 47 | | |

| OBSERVATIONS. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 2. (1 ^{re} expérience.) | | | | | | | | | | | |
|--|---|---------------------------------|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|---|---|----------------------------|
| | DATES et HEURES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | |
| Lm. | 1820. | 55°22' 0" | 55°45' 0" | 54°45' 0" | 54°52' 0" | 55°22' 0" | 55°35' 0" | 56° 7' 0" | 56°22' 0" | Axe moyen où les observations ont été faites. | | |
| | Avril, | 12 | 32 | 45 | 50 | 22 | 37 | 12 | 27 | | | |
| | 7, | 17 | 32 | 42 | 52 | 22 | 32 | 12 | 30 | | | |
| | de 1 ^h 35' | 10 | 35 | 45 | 50 | 22 | 35 | 15 | 22 | | | |
| | à 3 ^h 40' | 12 | 32 | 42 | 55 | 17 | 32 | 22 | 25 | | | |
| | soir. | 10 | 35 | 50 | 62 | 20 | 32 | 7 | 32 | | | |
| | | 5 | 22 | 57 | 65 | 20 | 32 | 12 | 20 | | | |
| | | 10 | 30 | 50 | 67 | 20 | 27 | 12 | 35 | | | |
| | | 17 | 25 | 50 | 52 | 20 | 42 | 10 | 42 | | | |
| | | 10 | 27 | 57 | 55 | 25 | 35 | 15 | 35 | | | |
| | | 12 | 22 | 47 | 50 | 20 | 40 | 10 | 30 | | | |
| | | 7 | 30 | 55 | 57 | 20 | 37 | 10 | 30 | | | |
| | Grands arcs. | N. attiré. | | | | | | | | | | |
| | | 55 27 0 | 55 40 0 | 54 50 0 | 54 57 0 | 55 17 0 | 55 40 0 | 56 15 0 | 56 5 0 | | | |
| | | 22 | 37 | 47 | 67 | 22 | 42 | 17 | 30 | | | |
| | | 15 | 32 | 50 | 67 | 17 | 40 | 10 | 22 | | | |
| | | 12 | 20 | 50 | 65 | 25 | 35 | 7 | 30 | | | |
| | | 7 | 27 | 55 | 62 | 17 | 35 | 15 | 25 | | | |
| | | 7 | 27 | 57 | 65 | 17 | 30 | 15 | 35 | | | |
| | | 15 | 32 | 55 | 72 | 15 | 30 | 10 | 30 | | | |
| | | 12 | 27 | 47 | 57 | 15 | 32 | 12 | 32 | | | |
| | | 12 | 35 | 47 | 67 | 5 | 27 | 20 | 32 | | | |
| | N. repoussé. | 10 | 35 | 55 | 60 | 22 | 32 | 12 | 22 | | | |
| | | 2 | 27 | 50 | 55 | 20 | 40 | 17 | 30 | | | |
| | | 15 | 37 | 45 | 62 | 15 | 32 | 15 | 32 | | | |
| | | N. attiré. | | | | | | | | | | |
| | | 54 55 0 | 55 15 0 | 54 20 0 | 54 42 0 | 54 52 0 | 55 17 0 | 55 50 0 | 56 5 0 | | | |
| | | 52 | 12 | 30 | 45 | 55 0 | 12 | 60 | 0 | | | |
| | | 57 | 5 | 32 | 42 | 2 | 10 | 40 | 5 | | | |
| | | 60 | 12 | 32 | 42 | 10 | 15 | 47 | 5 | | | |
| | | 50 | 20 | 37 | 57 | 2 | 25 | 52 | 5 | | | |
| | | 57 | 12 | 35 | 50 | 5 | 12 | 60 | 7 | | | |
| | Petits arcs. | 47 | 12 | 42 | 50 | 5 | 25 | 52 | 2 | | | |
| | | 45 | 12 | 30 | 45 | 2 | 20 | 50 | 22 | | | |
| | | 47 | 15 | 35 | 45 | 7 | 20 | 60 | 17 | | | |
| | | 52 | 10 | 35 | 52 | 2 | 20 | 65 | 17 | | | |
| | | 55 | 15 | 30 | 50 | 7 | 20 | 52 | 5 | | | |
| | | 50 | 45 | 37 | 45 | 54 57 | 27 | 57 | 55 57 | | | |
| | | N. repoussé. | | | | | | | | | | |
| | | 54 60 0 | 55 15 0 | 54 22 0 | 54 37 0 | 54 52 0 | 55 10 0 | 55 50 0 | 56 5 0 | | | |
| | | 60 | 20 | 25 | 37 | 55 2 | 20 | 55 | 0 | | | |
| | | 57 | 12 | 22 | 30 | 2 | 17 | 60 | 7 | | | |
| | Moyennes... { Lm. { 1 ^{re} exp. } | 57 | 15 | 25 | 27 | 12 | 15 | 57 | 7 | | | |
| | | 57 | 15 | 37 | 37 | 5 | 22 | 55 | 5 | | | |
| | | 55 | 15 | 35 | 32 | 10 | 15 | 55 | 5 | | | |
| | | 52 | 54 57 | 30 | 37 | 12 | 17 | 60 | 15 | | | |
| | | 45 | 55 12 | 32 | 45 | 5 | 27 | 60 | 20 | | | |
| | | 55 | 22 | 42 | 42 | 17 | 17 | 62 | 12 | | | |
| | | 50 | 12 | 37 | 47 | 5 | 15 | 62 | 20 | | | |
| | | 50 | 15 | 40 | 47 | 2 | 15 | 70 | 20 | | | |
| | | 47 | 22 | 42 | 47 | 0 | 12 | 57 | 10 | | | |
| Moyennes... { Lm. { 1 ^{re} exp. } | 55 2 45 | 55 21 40 | 54 41 14 | 54 51 6 | ..... | ..... | ..... | ..... | ..... | Avec pôles changés 54°50' 11" | { | 55°22' 0" inclin. moyenne. |
|  | ..... | ..... | ..... | ..... | 55 11 30 | 55 26 10 | 56 4 31 | 56 18 30 | ..... | Après pôles changés 55 45 1 | } | |

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 2. (2 ^e expérience.) | | | | | | | | | | REMARQUES. | | |
|--------------|------------------------|--------------|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|--|---|------------|--|--|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRÉCTIONS. | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | |
| R. | 1820. | N. attiré. | 55°25' 0" | 55°17' 0" | 54°65' 0" | 54°55' 0" | 55°27' 0" | 55°37' 0" | 56°25' 0" | 56°25' 0" | N. B. Cette expérience a été faite sur les mêmes points animaux que la précédente. | | | | |
| | Avril, | 25 | 37 | 50 | 45 | 27 | 32 | 17 | 15 | | | | | | |
| | 7, | 20 | 32 | 47 | 52 | 30 | 25 | 20 | 20 | | | | | | |
| | de 1 ^h 35' | 32 | 47 | 45 | 47 | 22 | 30 | 20 | 15 | | | | | | |
| | à 3 ^h 40' | 42 | 35 | 52 | 45 | 27 | 22 | 7 | 22 | | | | | | |
| | soir. | 55 | 30 | 52 | 55 | 35 | 27 | 22 | 22 | | | | | | |
| | | 17 | 27 | 45 | 50 | 22 | 35 | 25 | 22 | | | | | | |
| | | 40 | 32 | 52 | 55 | 30 | 32 | 17 | 27 | | | | | | |
| | | 20 | 15 | 52 | 55 | 30 | 27 | 20 | 22 | | | | | | |
| | | 37 | 27 | 52 | 67 | 25 | 35 | 22 | 20 | | | | | | |
| | | 17 | 22 | 52 | 57 | 25 | 25 | 22 | 30 | | | | | | |
| | | 20 | 22 | 50 | 55 | 17 | 35 | 15 | 22 | | | | | | |
| | | Grands arcs. | | | | | | | | | | | | | |
| | | N. repoussé. | 55 32 0 | 55 37 0 | 54 47 0 | 54 52 0 | 55 17 0 | 55 42 0 | 56 17 0 | 56 15 0 | | | | | |
| | | | 32 | 47 | 47 | 50 | 35 | 27 | 5 | 17 | | | | | |
| | | | 27 | 45 | 47 | 50 | 22 | 27 | 17 | 22 | | | | | |
| | | | 32 | 35 | 52 | 47 | 20 | 30 | 17 | 25 | | | | | |
| | | | 27 | 35 | 50 | 45 | 27 | 40 | 22 | 27 | | | | | |
| | | | 20 | 42 | 45 | 52 | 45 | 35 | 15 | 17 | | | | | |
| | | | 27 | 27 | 45 | 77 | 25 | 27 | 7 | 42 | | | | | |
| | | | 22 | 17 | 50 | 65 | 32 | 32 | 17 | 15 | | | | | |
| | | | 20 | 30 | 52 | 55 | 20 | 32 | 10 | 25 | | | | | |
| | | | 17 | 22 | 50 | 52 | 27 | 37 | 22 | 15 | | | | | |
| | | | 10 | 15 | 52 | 55 | 25 | 27 | 17 | 45 | | | | | |
| | | | 17 | 20 | 45 | 45 | 22 | 17 | 17 | 22 | | | | | |
| | | Petits arcs. | | | | | | | | | | | | | |
| | | N. attiré. | 54 52 0 | 55 7 0 | 54 37 0 | 54 25 0 | 55 17 0 | 55 17 0 | 55 75 0 | 56 17 0 | | | | | |
| | | | 55 2 | 15 | 42 | 42 | 20 | 12 | 52 | 5 | | | | | |
| | | | 0 | 54 47 | 30 | 37 | 5 | 15 | 52 | 0 | | | | | |
| | | | 7 | 42 | 32 | 37 | 10 | 10 | 67 | 7 | | | | | |
| | | | 17 | 55 12 | 37 | 37 | 5 | 17 | 65 | 15 | | | | | |
| | | | 15 | 5 | 37 | 40 | 7 | 15 | 67 | 17 | | | | | |
| | | | 5 | 12 | 35 | 47 | 22 | 15 | 57 | 15 | | | | | |
| | | | 10 | 12 | 27 | 50 | 25 | 22 | 72 | 12 | | | | | |
| | | | 2 | 12 | 37 | 37 | 10 | 12 | 77 | 12 | | | | | |
| | | | 0 | 17 | 32 | 40 | 20 | 20 | 70 | 7 | | | | | |
| | | | 32 | 7 | 32 | 47 | 20 | 17 | 75 | 17 | | | | | |
| | | | 0 | 15 | 45 | 37 | 17 | 22 | 77 | 17 | | | | | |
| | | N. repoussé. | | | | | | | | | | | | | |
| | | N. attiré. | 55 7 0 | 55 15 0 | 54 37 0 | 54 47 0 | 55 40 0 | 55 17 0 | 56 15 0 | 56 12 0 | | | | | |
| | | | 10 | 17 | 27 | 47 | 7 | 15 | 7 | 15 | | | | | |
| | | | 15 | 20 | 47 | 37 | 17 | 15 | 5 | 0 | | | | | |
| | | | 7 | 12 | 40 | 37 | 15 | 10 | 2 | 7 | | | | | |
| | | | 7 | 7 | 45 | 52 | 25 | 40 | 7 | 15 | | | | | |
| | | | 5 | 7 | 30 | 45 | 12 | 15 | 12 | 7 | | | | | |
| | | | 54 57 | 7 | 37 | 47 | 12 | 15 | 17 | 15 | | | | | |
| | | | 55 5 | 17 | 45 | 42 | 22 | 10 | 17 | 17 | | | | | |
| | | | 7 | 12 | 45 | 47 | 30 | 20 | 2 | 15 | | | | | |
| | | | 7 | 15 | 42 | 47 | 17 | 25 | 15 | 17 | | | | | |
| | | | 10 | 10 | 47 | 45 | 15 | 12 | 7 | 20 | | | | | |
| | | | 7 | 12 | 37 | 45 | 7 | 20 | 15 | 35 | | | | | |
| Moyennes . . | R. | | 55 16 51 | 55 19 46 | 54 43 42 | 54 47 51 | | 55 21 29 | 55 23 49 | 56 12 57 | 56 18 1 | Avant pôles changés 55° 2' 3" { 55° 25' 33" { 55° 25' 49" { Indication Après pôles changés 55 49 55 } 55 22 6 } Indication d'addition | | | |
| | 2 ^e exp. |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  |
| | Lm. |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  |
| | 1 ^{re} exp. |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 3. (1 ^{re} expérience.) | | | | | | | | | | REMARQUES. | |
|--|------------------------|---|---------|-------------|-----------|---------------------------------|-----------|-------------|-----------|-----------|-----------|---|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| A LA BAIE-FRANÇAISE, ILE CONTI (ARCHIPEL DES MALOUINES). | | | | | | | | | | | | | |
| Lm. | 1820. | | | 55°10' 0" | 55°20' 0" | 54°55' 0" | 55° 7' 0" | 55°52' 0" | 56°15' 0" | 55°35' 0" | 55°40' 0" | Antinoms moyens où les observations ont été faites. | |
| Avril, | 5 | | | 5 | 10 | 50 | 2 | 57 | 12 | 32 | 45 | | |
| 8, | 2 | | | 2 | 15 | 52 | 54 55 | 55 | 15 | 40 | 47 | | |
| de | 15 | | | 15 | 12 | 45 | 55 5 | 60 | 17 | 35 | 47 | | |
| 10 ^h 15' | 7 | | | 7 | 15 | 47 | 0 | 52 | 22 | 45 | 50 | | |
| matin | 0 | | | 0 | 15 | 52 | 5 | 47 | 17 | 40 | 55 | | |
| à 1 ^r | 0 | | | 0 | 10 | 55 | 0 | 52 | 10 | 40 | 52 | | |
| soir. | 54 57 | | | 54 57 | 12 | 47 | 5 | 50 | 22 | 35 | 47 | | |
| | 55 7 | | | 55 7 | 5 | 52 | 5 | 42 | 22 | 35 | 45 | | |
| | 0 | | | 0 | 10 | 55 | 7 | 52 | 17 | 45 | 45 | | |
| | 15 | | | 15 | 0 | 55 | 0 | 57 | 17 | 42 | 50 | | |
| | 54 55 | | | 54 55 | 7 | 45 | 5 | 52 | 15 | 40 | 52 | | |
| Grands arcs. | | | | | | | | | | | | | |
| | | N. attiré. | | 55 0 0 | 55 17 0 | 54 50 0 | 54 55 0 | 55 57 0 | 56 10 0 | 55 32 0 | 55 47 0 | | |
| | | | | 55 | 12 | 50 | 67 | 52 | 20 | 35 | 40 | | |
| | | | | 2 | 12 | 50 | 55 | 57 | 7 | 37 | 47 | | |
| | | | | 0 | 17 | 52 | 60 | 52 | 15 | 45 | 45 | | |
| | | | | 0 | 15 | 62 | 55 | 67 | 17 | 45 | 50 | | |
| | | | | 2 | 12 | 52 | 65 | 52 | 17 | 42 | 45 | | |
| | | | | 54 55 | 10 | 57 | 52 | 50 | 15 | 45 | 42 | | |
| | | | | 50 | 7 | 50 | 60 | 47 | 20 | 37 | 42 | | |
| | | | | 55 15 | 5 | 52 | 60 | 42 | 5 | 47 | 42 | | |
| | | | | 54 52 | 7 | 52 | 65 | 62 | 15 | 40 | 47 | | |
| | | | | 55 0 | 17 | 52 | 65 | 57 | 0 | 37 | 45 | | |
| | | | | 0 | 15 | 52 | 70 | 47 | 15 | 37 | 47 | | |
| Petits arcs. | | | | | | | | | | | | | |
| | | N. attiré. | | 54 62 0 | 54 47 0 | 54 27 0 | 54 45 0 | 55 25 0 | 55 57 0 | 55 20 0 | 55 30 0 | | |
| | | | | 42 | 50 | 27 | 50 | 27 | 57 | 17 | 30 | | |
| | | | | 42 | 50 | 22 | 40 | 30 | 60 | 22 | 25 | | |
| | | | | 47 | 57 | 25 | 47 | 30 | 55 | 20 | 25 | | |
| | | | | 40 | 60 | 32 | 45 | 40 | 57 | 22 | 27 | | |
| | | | | 42 | 52 | 25 | 45 | 25 | 62 | 25 | 35 | | |
| | | | | 35 | 55 | 27 | 42 | 30 | 55 | 22 | 37 | | |
| | | | | 40 | 52 | 27 | 37 | 42 | 57 | 20 | 37 | | |
| | | | | 40 | 45 | 25 | 42 | 40 | 67 | 32 | 37 | | |
| | | | | 40 | 50 | 27 | 45 | 37 | 60 | 35 | 20 | | |
| | | | | 37 | 60 | 30 | 40 | 30 | 40 | 22 | 22 | | |
| | | | | 42 | 55 | 25 | 30 | 32 | 52 | 20 | 20 | | |
| Petits arcs. | | | | | | | | | | | | | |
| | | N. repoussé. | | 54 35 0 | 54 45 0 | 54 22 0 | 54 45 0 | 55 37 0 | 55 52 0 | 55 35 0 | 55 25 0 | | |
| | | | | 35 | 45 | 20 | 40 | 27 | 62 | 22 | 27 | | |
| | | | | 32 | 47 | 22 | 40 | 20 | 52 | 22 | 27 | | |
| | | | | 40 | 52 | 32 | 42 | 27 | 52 | 20 | 27 | | |
| | | | | 40 | 42 | 22 | 45 | 27 | 50 | 20 | 30 | | |
| | | | | 45 | 55 | 32 | 47 | 30 | 55 | 35 | 30 | | |
| | | | | 45 | 57 | 27 | 42 | 30 | 57 | 35 | 20 | | |
| | | | | 42 | 55 | 35 | 40 | 37 | 50 | 30 | 32 | | |
| | | | | 37 | 50 | 22 | 47 | 30 | 47 | 32 | 30 | | |
| | | | | 40 | 55 | 22 | 47 | 27 | 47 | 22 | 25 | | |
| | | | | 40 | 47 | 30 | 50 | 30 | 55 | 27 | 20 | | |
| | | | | 45 | 47 | 27 | 47 | 30 | 62 | 32 | 32 | | |
| Moyennes... { Lm. | 54 50 26 | 55 124 | 54 39 1 | 54 52 36 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Avant pôles changés 54°50'52" | |
| 1 ^{re} exp. { | ..... | ..... | ..... | ..... | 55 41 52 | 56 4 56 | 55 32 14 | 55 37 10 | ..... | ..... | ..... | 55°17'37" Indic. moyenne | |
| | | | | | | | | | | | | Après pôles changés 55 44 3 | |

| OBSERVATIONS. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 3. (2 ^e expérience.) | | | | | | | | | | | | REMARQUES. | | | | | | |
|--|------------------------|--------------|--|-----------|-------------|------------|-------------|-----------|-------------|------------|--|-----------|-----------|-----------|--------------------------|--|--|--|--|--|--|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | | | | | |
| A LA BAIE-FRANÇAISE, ILE CONTI (ARCHIPEL DES MALOUINES). | | | | | | | | | | | | | | | | | | | | | |
| Db. | 1820. | N. attiré. | 55° 0' 0" | 55° 5' 0" | 54° 57' 0" | 54° 65' 0" | 55° 60' 0" | 56° 0' 0" | 55° 40' 0" | 55° 30' 0" | Cette expérience a été faite sur les mêmes points que la précédente. | | | | | | | | | | |
| | Avril, | | 7 | 2 | 57 | 70 | 52 | 0 | 32 | 22 | | | | | | | | | | | |
| | 8, | | 5 | 7 | 52 | 60 | 52 | 12 | 32 | 45 | | | | | | | | | | | |
| | de | | 0 | 2 | 50 | 67 | 60 | 17 | 40 | 32 | | | | | | | | | | | |
| | 10 ^h 15' | | 0 | 7 | 45 | 62 | 60 | 5 | 37 | 47 | | | | | | | | | | | |
| | matin | | 0 | 2 | 47 | 60 | 57 | 2 | 45 | 45 | | | | | | | | | | | |
| | à 1 ^h | | 7 | 12 | 47 | 55 | 55 | 0 | 30 | 45 | | | | | | | | | | | |
| | soir. | | 54 52 | 7 | 45 | 60 | 47 | 12 | 42 | 42 | | | | | | | | | | | |
| | | | 55 2 | 57 | 45 | 62 | 52 | 5 | 37 | 42 | | | | | | | | | | | |
| | | | 2 | 0 | 47 | 52 | 60 | 0 | 40 | 45 | | | | | | | | | | | |
| | | | 0 | 2 | 47 | 67 | 50 | 2 | 40 | 35 | | | | | | | | | | | |
| | | | 0 | 5 | 50 | 58 | 55 | 55 52 | 40 | 30 | | | | | | | | | | | |
| | | Grands arcs. | 55 7 | 0 55 5 | 0 54 60 | 0 55 7 | 0 55 52 | 0 55 75 | 0 55 40 | 0 55 45 0 | | | | | | | | | | | |
| | | | 5 | 0 | 52 | 10 | 55 | 45 | 45 | 30 | | | | | | | | | | | |
| | | | 0 | 5 | 50 | 0 | 56 7 | 67 | 30 | 37 | | | | | | | | | | | |
| | | | 15 | 5 | 42 | 0 | 0 | 60 | 30 | 37 | | | | | | | | | | | |
| | | | 20 | 5 | 55 | 0 | 0 | 52 | 30 | 37 | | | | | | | | | | | |
| | | | 15 | 5 | 52 | 2 | 15 | 85 | 45 | 42 | | | | | | | | | | | |
| | | | 15 | 10 | 52 | 5 | 20 | 57 | 37 | 50 | | | | | | | | | | | |
| | | | 15 | 15 | 52 | 0 | 5 | 47 | 40 | 45 | | | | | | | | | | | |
| | | | 0 | 10 | 57 | 0 | 10 | 42 | 52 | 45 | | | | | | | | | | | |
| | | | 0 | 0 | 50 | 7 | 10 | 57 | 55 | 50 | | | | | | | | | | | |
| | | | 0 | 0 | 52 | 7 | 22 | 55 | 40 | 47 | | | | | | | | | | | |
| | | | 0 | 0 | 65 | 0 | 15 | 52 | 42 | 45 | | | | | | | | | | | |
| | | N. repoussé. | 54 45 | 0 54 45 | 0 54 35 | 0 54 30 | 0 55 45 | 0 55 27 | 0 55 0 | 0 55 20 0 | | | | | | | | | | | |
| | | | 45 | 50 | 37 | 35 | 45 | 37 | 5 | 17 | | | | | | | | | | | |
| | | | 40 | 50 | 45 | 35 | 37 | 32 | 7 | 15 | | | | | | | | | | | |
| | | | 42 | 45 | 32 | 32 | 42 | 37 | 7 | 22 | | | | | | | | | | | |
| | | | 45 | 47 | 35 | 42 | 45 | 42 | 17 | 22 | | | | | | | | | | | |
| | | | 50 | 52 | 37 | 42 | 45 | 42 | 20 | 35 | | | | | | | | | | | |
| | | | 50 | 47 | 37 | 37 | 45 | 47 | 17 | 27 | | | | | | | | | | | |
| | | | 40 | 40 | 37 | 45 | 45 | 45 | 15 | 30 | | | | | | | | | | | |
| | | | 50 | 40 | 37 | 45 | 35 | 47 | 15 | 30 | | | | | | | | | | | |
| | | | 37 | 35 | 35 | 45 | 37 | 60 | 15 | 30 | | | | | | | | | | | |
| | | | 52 | 45 | 32 | 35 | 45 | 45 | 15 | 32 | | | | | | | | | | | |
| | | | 42 | 37 | 32 | 40 | 37 | 47 | 15 | 30 | | | | | | | | | | | |
| | | Petits arcs. | 54 45 | 0 54 25 | 0 54 30 | 0 54 30 | 0 55 32 | 0 55 37 | 0 55 22 | 0 55 22 0 | | | | | | | | | | | |
| | | | 45 | 40 | 30 | 30 | 37 | 40 | 22 | 30 | | | | | | | | | | | |
| | | | 47 | 32 | 35 | 37 | 37 | 45 | 22 | 22 | | | | | | | | | | | |
| | | | 45 | 45 | 37 | 45 | 42 | 55 | 22 | 22 | | | | | | | | | | | |
| | | | 45 | 42 | 37 | 45 | 35 | 47 | 22 | 22 | | | | | | | | | | | |
| | | | 37 | 32 | 32 | 32 | 47 | 52 | 20 | 22 | | | | | | | | | | | |
| | | | 45 | 45 | 35 | 50 | 45 | 47 | 15 | 17 | | | | | | | | | | | |
| | | | 45 | 40 | 45 | 42 | 40 | 50 | 15 | 25 | | | | | | | | | | | |
| | | | 40 | 42 | 45 | 40 | 45 | 52 | 15 | 25 | | | | | | | | | | | |
| | | | 52 | 45 | 30 | 30 | 45 | 50 | 22 | 22 | | | | | | | | | | | |
| | | | 45 | 45 | 32 | 32 | 40 | 52 | 25 | 32 | | | | | | | | | | | |
| | | | 45 | 37 | 30 | 37 | 37 | 55 | 20 | 22 | | | | | | | | | | | |
| Moyennes... | { Db. | 54 54 36 | 54 53 9 | 54 43 16 | 54 50 11 | ..... | ..... | ..... | ..... | ..... | Avant pôles changés 54°50'18" | 55°15'43" | 55°16'35" | 55°17'27" | Lacunarismes définitifs. | | | | | | |
| | { 2 ^e exp. | ..... | ..... | ..... | ..... | 55 51 10 | 55 53 9 | 55 27 44 | 55 32 34 | ..... | Après pôles changés 55°41'10" | 55°16'35" | 55°17'27" | 55°17'27" | | | | | | | |
| | { Lm. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  |  |  |  |
| | { 1 ^{er} exp. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  |  |  |  |

| OBSERVATIONS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 4. (1 ^{re} expérience.) | | | | | | | | REMARQUES. | |
|---|---|---|---|-------------|------|---------------------------------|------|-------------|------|---|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| BAIE-FRANÇAISE, ILE CONTI (ARCHIPEL DES MALOUINES). | | | | | | | | | | | |
| Lm. 1820. | Avril, 8, de 2 ^h 35' à 5 ^h 22' soir. | N. attiré. | 56°10' 0" \| 56°37' 0" \| 56°17' 0" \| 56°32' 0" \| 54°17' 0" \| 53°52' 0" \| 53°62' 0" \| 54°15' 0" | | | | | | | Asinuts moyens où les observations ont été faites. | |
| | | Grands arcs. | 56 10 0 \| 56 37 0 \| 56 17 0 \| 56 32 0 \| 54 17 0 \| 53 52 0 \| 53 62 0 \| 54 15 0 | | | | | | | Points où l'aig. est perpendic. | |
| | | N. repoussé. | 56 12 0 \| 56 30 0 \| 56 10 0 \| 56 25 0 \| 53 62 0 \| 54 22 0 \| 53 67 0 \| 54 17 0 | | | | | | | Face au N. \| Face au S. | |
| | | Petits arcs. | 56 12 0 \| 56 30 0 \| 56 10 0 \| 56 25 0 \| 53 62 0 \| 54 22 0 \| 53 67 0 \| 54 17 0 | | | | | | | 192° 32' \| 12° 35' 15" | |
| | | N. attiré. | 55 35 0 \| 55 45 0 \| 55 47 0 \| 55 50 0 \| 53 30 0 \| 53 57 0 \| 53 42 0 \| 53 57 0 | | | | | | | Mérid. { Face à l'E.. $\frac{192^{\circ}32'+12^{\circ}35'15''}{2} = 102^{\circ}33'38''$ | |
| | | N. repoussé. | 55 35 0 \| 55 45 0 \| 55 47 0 \| 55 50 0 \| 53 30 0 \| 53 57 0 \| 53 42 0 \| 53 57 0 | | | | | | | magn. { Face à l'O. $102^{\circ}33'38'' + 180^{\circ} = 282^{\circ}33'38''$ | |
| Moyennes... Lm. 1 ^{re} exp. | 55 45 15 \| 56 4 6 \| 56 6 15 \| 56 18 21 \| ..... \| ..... \| ..... \| ..... \| ..... \| Avant pôles changés. 56° 3'29" \| 56° 59' 13" incl. moyenne | | | | | | | | | | |
| | | | | | | | | | | Après pôles changés. 53 54 57 \| |  |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 4. (2 ^e expérience.) | | | | | | | | | | REMARQUES. | |
|---|---|--|------------|-------------|------------|---------------------------------|------------|-------------|------------|---|---------------------------------|----------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| BAIE-FRANÇAISE, ILE CONTI (ARCHIPEL DES MALOUINES). | | | | | | | | | | | | | |
| Db. | 1820. Avril, 8, $2^{\circ} 33'$ à $5^{\circ} 22'$ soir. | 55° 67' 0" | 55° 82' 0" | 56° 15' 0" | 56° 15' 0" | 54° 15' 0" | 54° 15' 0" | 53° 75' 0" | 53° 90' 0" | Mêmes points minimaux qu'à l'expérience précédente. | | | |
| | | 67 | 67 | 15 | 30 | 0 | 0 | 60 | 52 | | | | |
| | | 52 | 85 | 22 | 22 | 53 52 | 12 | 60 | 60 | | | | |
| | | 52 | 50 | 7 | 30 | 54 17 | 0 | 57 | 60 | | | | |
| | | 60 | 65 | 17 | 32 | 15 | 53 55 | 60 | 65 | | | | |
| | | 72 | 62 | 30 | 30 | 7 | 54 0 | 57 | 60 | | | | |
| | | 45 | 60 | 25 | 32 | 0 | 0 | 60 | 60 | | | | |
| | | 52 | 80 | 27 | 45 | 7 | 0 | 60 | 60 | | | | |
| | | 45 | 60 | 30 | 45 | 5 | 53 52 | 60 | 52 | | | | |
| | | 32 | 60 | 32 | 50 | 53 50 | 54 0 | 60 | 60 | | | | |
| | | 30 | 47 | 22 | 42 | 54 10 | 53 45 | 60 | 60 | | | | |
| | | 22 | 45 | 32 | 45 | 5 | 54 0 | 55 | 52 | | | | |
| | | Grands arcs. | | N. attiré. | | N. repoussé. | | N. attiré. | | | | | |
| | | 55 75 0 | 56 15 0 | 56 20 0 | 56 30 0 | 54 15 0 | 53 52 0 | 53 75 0 | 54 15 0 | | | | |
| | | 67 | 15 | 25 | 15 | 0 | 54 20 | 60 | 7 | | | | |
| | | 65 | 15 | 15 | 12 | 0 | 5 | 60 | 0 | | | | |
| | | 75 | 15 | 15 | 15 | 0 | 15 | 55 | 7 | | | | |
| | | 67 | 5 | 22 | 30 | 53 55 | 15 | 62 | 7 | | | | |
| | | 60 | 0 | 15 | 30 | 54 0 | 15 | 45 | 7 | | | | |
| | | 47 | 0 | 22 | 20 | 7 | 7 | 60 | 7 | | | | |
| | | 42 | 0 | 17 | 32 | 53 52 | 7 | 60 | 7 | | | | |
| | | 45 | 7 | 30 | 30 | 0 | 7 | 60 | 10 | | | | |
| | | 50 | 0 | 20 | 15 | 0 | 0 | 60 | 15 | | | | |
| | | 40 | 2 | 20 | 30 | 0 | 15 | 60 | 15 | | | | |
| | | 42 | 55 45 | 30 | 35 | 0 | 15 | 60 | 5 | | | | |
| | | Petits arcs. | | N. attiré. | | N. repoussé. | | N. attiré. | | | | | |
| | | 55 30 0 | 55 40 0 | 55 40 0 | 55 45 0 | 53 37 0 | 53 30 0 | 53 32 0 | 53 45 0 | | | | |
| | | 45 | 52 | 32 | 45 | 30 | 45 | 30 | 50 | | | | |
| | | 42 | 60 | 45 | 56 15 | 30 | 30 | 30 | 45 | | | | |
| | | 40 | 60 | 50 | 55 52 | 45 | 50 | 55 | 45 | | | | |
| | | 40 | 65 | 60 | 56 5 | 37 | 52 | 35 | 45 | | | | |
| | | 37 | 45 | 57 | 7 | 37 | 45 | 45 | 45 | | | | |
| | | 67 | 50 | 72 | 0 | 45 | 45 | 37 | 60 | | | | |
| | | 50 | 57 | 72 | 5 | 37 | 60 | 52 | 60 | | | | |
| | | 45 | 45 | 65 | 15 | 45 | 35 | 55 | 60 | | | | |
| | | 32 | 50 | 82 | 30 | 30 | 30 | 55 | 62 | | | | |
| | | 45 | 50 | 82 | 27 | 30 | 45 | 45 | 45 | | | | |
| | | 37 | 55 | 77 | 35 | 35 | 45 | 42 | 50 | | | | |
| | | N. repoussé. | | N. attiré. | | N. repoussé. | | N. attiré. | | | | | |
| | | 55 40 0 | 55 42 0 | 55 45 0 | 55 30 0 | 53 50 0 | 53 32 0 | 53 45 0 | 53 30 0 | | | | |
| | | 30 | 50 | 45 | 37 | 45 | 45 | 35 | 30 | | | | |
| | | 37 | 45 | 42 | 35 | 30 | 37 | 30 | 30 | | | | |
| | | 52 | 50 | 45 | 37 | 45 | 47 | 35 | 50 | | | | |
| | | 35 | 60 | 52 | 60 | 52 | 52 | 45 | 47 | | | | |
| | | 35 | 60 | 50 | 60 | 45 | 50 | 50 | 55 | | | | |
| | | 45 | 60 | 60 | 60 | 37 | 37 | 47 | 47 | | | | |
| | | 45 | 50 | 65 | 67 | 45 | 52 | 42 | 45 | | | | |
| | | 45 | 52 | 65 | 75 | 37 | 35 | 40 | 60 | | | | |
| | | 47 | 45 | 67 | 65 | 25 | 45 | 47 | 60 | | | | |
| | | 35 | 55 | 75 | 75 | 45 | 45 | 55 | 60 | | | | |
| | | 37 | 47 | 75 | 75 | 37 | 52 | 52 | 60 | | | | |
| Moyennes... | Db. 2 ^e exp. | 55 47 10 | 55 58 4 | 56 10 31 | 56 16 1 | | 53 50 54 | 53 54 1 | 53 51 24 | 53 57 4 | Avant pôles changés. 56° 2' 56" | | |
| | Lm. 1 ^{re} exp. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 54° 58' 41" | |
| | | | | | | | | | | | | Incl. déficit. | |
| | | | | | | | | | | | | 54° 59' 13" | |

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. (1 ^{re} expérience.) | | | | | | | | | | REMARQUES. | | | | | | | |
|--|------------------|---|------------|-------------|------|---------------------------------|------------|-------------|------------|--|--|------------|--|--|--|--|--|--|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | | | | |
| RIO DE JANEIRO, BRÉSIL (2 ^e RELÂCHE). | | | | | | | | | | | | | | | | | | | |
| Frey. | 1820. | N. attiré. | 13° 60' 0" | 13° 87' 0" | | 15° 32' 0" | 15° 55' 0" | 15° 37' 0" | 15° 37' 0" | Azimuts moyens où les observations ont été faites. | | | | | | | | | |
| Août, | 45 | | 82 | | | 25 | 45 | 30 | 39 | | | | | | | | | | |
| 6, | 45 | | 74 | | | 25 | 45 | 25 | 40 | | | | | | | | | | |
| de | 47 | | 80 | | | 56 | 45 | 25 | 36 | | | | | | | | | | |
| 2 ^h 50' | 41 | | 67 | | | 30 | 47 | 22 | 35 | | | | | | | | | | |
| à | 42 | | 61 | | | 30 | 45 | 26 | 37 | | | | | | | | | | |
| 4 ^h 25' | 37 | | 60 | | | 22 | 32 | 25 | 43 | | | | | | | | | | |
| soir. | 33 | | 60 | | | 20 | 36 | 33 | 43 | | | | | | | | | | |
| | 25 | | 55 | | | 15 | 35 | 35 | 45 | | | | | | | | | | |
| | 20 | | 38 | | | 17 | 30 | 23 | 40 | | | | | | | | | | |
| Grands arcs. | 22 | N. attiré. | 43 | | | 15 | 22 | 25 | 37 | | | | | | | | | | |
| | 30 | N. repoussé. | 48 | | | 3 | 20 | 23 | 43 | | | | | | | | | | |
| Petits arcs. | 13 35 0 | N. attiré. | 13 76 0 | | | 15 30 0 | 15 47 0 | 15 35 0 | 15 47 0 | Points où l'sig. est perpendic. | | | | | | | | | |
| | 51 | N. repoussé. | 76 | | | 30 | 42 | 20 | 42 | Face au N. | | | | | | | | | |
| | 49 | | 70 | | | 30 | 50 | 22 | 47 | Face au S. | | | | | | | | | |
| | 42 | | 63 | | | 29 | 40 | 30 | 47 | 220° 1' | | | | | | | | | |
| | 37 | | 60 | | | 25 | 48 | 30 | 50 | 40° 40' | | | | | | | | | |
| | 36 | | 58 | | | 21 | 34 | 37 | 60 | Mérid. { Face à l'E. $\frac{220^\circ 1' + 40^\circ 60'}{2} = 130^\circ 20'$ | | | | | | | | | |
| | 30 | | 48 | | | 20 | 32 | 45 | 65 | magn. { Face à l'O. $130^\circ 20' + 180^\circ = 310^\circ 20'$ | | | | | | | | | |
| | 24 | | 51 | | | 20 | 35 | 53 | 47 | NOTA. Les axes de cette aiguille sont passablement nets. | | | | | | | | | |
| | 18 | | 40 | | | 16 | 34 | 20 | 53 | | | | | | | | | | |
| | 22 | | 53 | | | 12 | 25 | 30 | 45 | | | | | | | | | | |
| Petits arcs. | 28 | N. attiré. | 48 | | | 6 | 21 | 33 | 47 | | | | | | | | | | |
| | 24 | N. repoussé. | 51 | | | 2 | 12 | 37 | 59 | | | | | | | | | | |
| Moyennes... | 13 42 0 | N. attiré. | 13 68 0 | | | 15 12 0 | 15 27 0 | 14 53 0 | 15 12 0 | Par inadvertance, les pôles de cette aiguille ont été changés avant d'avoir fait les observations face à l'E.; on peut y suppléer en recourant aux expériences de Montevideo qui donnent l'erreur de l'aiguille observée sur ses deux faces, au même état de magnétisme. | | | | | | | | | |
| | 47 | N. repoussé. | 60 | | | 12 | 27 | 53 | 15 | On trouve que face à l'E. donnait sur ce point 5° 59' de plus que face à l'O.; mais à Rio de Janeiro cette différence a dû être encore plus considérable, car, tout égal d'ailleurs, l'inclinaison étant là fort petite, doit avoir une action plus grande sur la pointe lourde de l'aiguille. | | | | | | | | | |
| | 35 | | 57 | | | 10 | 27 | 55 | 20 | | | | | | | | | | |
| | 27 | | 53 | | | 7 | 22 | 15 4 | 35 | | | | | | | | | | |
| | 32 | | 47 | | | 11 | 28 | 10 | 30 | | | | | | | | | | |
| | 25 | | 47 | | | 8 | 31 | 7 | 35 | | | | | | | | | | |
| | 25 | | 46 | | | 11 | 25 | 20 | 45 | | | | | | | | | | |
| | 20 | | 45 | | | 8 | 22 | 25 | 50 | | | | | | | | | | |
| | 18 | | 43 | | | 6 | 22 | 34 | 21 | | | | | | | | | | |
| | 16 | | 31 | | | 4 | 20 | 9 | 27 | | | | | | | | | | |
| Frey. | 15 | | 35 | | | 2 | 18 | 17 | 35 | | | | | | | | | | |
| | 12 | | 27 | | | 14 56 | 14 | 22 | 52 | | | | | | | | | | |
| Moyennes... | 13 42 0 | N. repoussé. | 13 60 0 | | | 15 2 0 | 15 34 0 | 14 52 0 | 15 15 0 | | | | | | | | | | |
| | 35 | | 50 | | | 2 | 30 | 50 | 15 | | | | | | | | | | |
| | 32 | | 53 | | | 11 | 32 | 50 | 17 | | | | | | | | | | |
| | 30 | | 53 | | | 8 | 31 | 58 | 24 | | | | | | | | | | |
| | 30 | | 50 | | | 7 | 37 | 15 3 | 30 | | | | | | | | | | |
| | 27 | | 45 | | | 6 | 35 | 10 | 20 | | | | | | | | | | |
| | 25 | | 43 | | | 4 | 31 | 12 | 29 | | | | | | | | | | |
| | 20 | | 40 | | | 5 | 20 | 27 | 43 | | | | | | | | | | |
| | 17 | | 40 | | | 0 | 19 | 27 | 52 | | | | | | | | | | |
| | 12 | | 30 | | | 0 | 15 | 32 | 12 | | | | | | | | | | |
| Frey. | 12 | | 30 | | | 14 58 | 12 | 5 | 22 | | | | | | | | | | |
| | 14 | | 35 | | | 54 | 5 | 11 | 30 | | | | | | | | | | |
| Avant pôles changés. 13° 37' 8" | | | | | | | | | | | | | | | | | | | |
| Après pôles changés. 15 25 1 | | | | | | | | | | | | | | | | | | | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 1. (2 ^e expérience.) | | | | | | | | | | | | |
|--|---------------------|--|---------------------------------|------------|---|------|---------------------------------|------------|-------------|------------|---|--|--|--|
| | | INDICES. | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| RIO DE JANEIRO, BRÉSIL (2 ^e RELÂCHE.) | | | | | | | | | | | | | | |
| Dp. | 1820. | | 14° 7' 0" | 13° 87' 0" | <i>Voyez la remarque de la première expérience relativement à cette face à l'Est.</i> | | 15° 37' 0" | 15° 50' 0" | 15° 22' 0" | 15° 45' 0" | | | | |
| Août, | 0 | | 35 | | | | 33 | 52 | 25 | 30 | | | | |
| 6 , | 2 | | 75 | | | | 35 | 47 | 15 | 27 | | | | |
| de | 13 55 0 | | 37 | | | | 28 | 43 | 15 | 30 | | | | |
| 2 ^h 50' | 50 | | 62 | | | | 27 | 45 | 15 | 30 | | | | |
| à | 47 | | 55 | | | | 25 | 45 | 20 | 37 | | | | |
| 4 ^h 25' | 40 | | 55 | | | | 32 | 47 | 25 | 35 | | | | |
| soir. | 37 | | 50 | | | | 30 | 40 | 30 | 47 | | | | |
| | 37 | | 35 | | | | 27 | 27 | 30 | 55 | | | | |
| | 25 | | 35 | | | | 25 | 32 | 32 | 55 | | | | |
| | 20 | | 45 | | | | 17 | 30 | 37 | 62 | | | | |
| | 22 | | 72 | | | | 15 | 30 | 45 | 63 | | | | |
| | Grands arcs. | | | | | | | | | | Mêmes points azimuthaux qu'à l'expérience précédente. | | | |
| | N. attiré. | | 13 70 0 | 13 90 0 | | | 15 45 0 | 15 50 0 | 15 25 0 | 15 32 0 | | | | |
| | | | 63 | 78 | | | 30 | 50 | 20 | 30 | | | | |
| | | | 65 | 78 | | | 28 | 45 | 20 | 35 | | | | |
| | | | 60 | 70 | | | 35 | 45 | 17 | 27 | | | | |
| | | | 28 | 63 | | | 33 | 35 | 18 | 32 | | | | |
| | | | 65 | 65 | | | 32 | 50 | 25 | 45 | | | | |
| | | | 40 | 63 | | | 30 | 43 | 32 | 60 | | | | |
| | | | 38 | 58 | | | 22 | 30 | 37 | 60 | | | | |
| | | | 33 | 55 | | | 10 | 35 | 42 | 62 | | | | |
| | | | 30 | 52 | | | 17 | 33 | 45 | 67 | | | | |
| | | | 27 | 45 | | | 12 | 30 | 60 | 70 | | | | |
| | | | 22 | 52 | | | 7 | 23 | 72 | 77 | | | | |
| | Petits arcs. | | | | | | | | | | | | | |
| | N. attiré. | | 13 32 0 | 13 57 0 | | | 15 5 0 | 15 27 0 | 14 57 0 | 15 2 0 | | | | |
| | | | 40 | 47 | | | 15 | 20 | 53 | 8 | | | | |
| | | | 30 | 50 | | | 10 | 22 | 55 | 0 | | | | |
| | | | 25 | 45 | | | 15 | 25 | 60 | 8 | | | | |
| | | | 25 | 47 | | | 10 | 32 | 58 | 10 | | | | |
| | | | 20 | 45 | | | 8 | 17 | 30 | 15 | | | | |
| | | | 10 | 30 | | | 5 | 15 | 70 | 22 | | | | |
| | | | 30 | 35 | | | 8 | 20 | 15 42 | 0 | | | | |
| | | | 15 | 42 | | | 2 | 20 | 25 | 32 | | | | |
| | | | 25 | 32 | | | 2 | 15 | 25 | 40 | | | | |
| | | | 27 | 37 | | | 3 | 10 | 7 | 7 | | | | |
| | | | 25 | 52 | | | 3 | 10 | 14 58 | 15 | | | | |
| | Petits arcs. | | | | | | | | | | | | | |
| | N. repoussé. | | 13 40 0 | 13 52 0 | | | 15 15 0 | 15 30 0 | 15 7 0 | 15 17 0 | | | | |
| | | | 32 | 47 | | | 5 | 18 | 14 58 | 12 | | | | |
| | | | 43 | 47 | | | 10 | 32 | 15 0 | 8 | | | | |
| | | | 32 | 40 | | | 8 | 18 | 14 58 | 12 | | | | |
| | | | 25 | 45 | | | 8 | 15 | 53 | 10 | | | | |
| | | | 25 | 47 | | | 10 | 10 | 55 | 5 | | | | |
| | | | 20 | 45 | | | 5 | 18 | 15 2 | 12 | | | | |
| | | | 20 | 37 | | | 5 | 15 | 10 | 15 | | | | |
| | | | 18 | 30 | | | 5 | 15 | 10 | 22 | | | | |
| | | | 12 | 35 | | | 0 | 10 | 18 | 27 | | | | |
| | | | 15 | 32 | | | 14 50 | 5 | 25 | 35 | | | | |
| | | | 20 | 45 | | | 50 | 3 | 14 55 | 7 | | | | |
| Moyennes... { | Dp. | 13 34 46 | 13 50 41 | 13 42 57 | 13 54 27 |  | ..... | ..... | ..... | ..... | Avant pôles changés. 13° 45' 43" | | | |
| | 2 ^e exp. | ..... | ..... | ..... | ..... |  | 15 16 1 | 15 28 44 | 15 17 24 | 15 30 17 | Après pôles changés. 15 23 6 } | | | |
| | Frey. | ..... | ..... | ..... | ..... |  |  |  |  |  | 14° 32' 45" | | | |
| | 1 ^r exp. | ..... | ..... | ..... | ..... |  |  |  |  |  | Ind. défaill. | | | |
| | | | | | | | | | | | 14 31 5 | | | |

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 3. | | | | | | | | | | | | REMARQUES. | |
|--|--|--|---------------------------|--|---|---------------------------------|------|-------------|------|--|--|--|--|------------|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | |
| RIO DE JANEIRO, BRÉSIL (2 ^e RELÂCHE). | | | | | | | | | | | | | | | |
| Frey. | 1820. Sept. 1 ^{er} , de matin à 1 ^{re} 30 ^m soir. | Grands arcs. | N. repoussé. \| N. attiré. | 15°58' 0" 16°12' 0" 15°55' 0" 16°11' 0" | 13°53' 0" 14° 6' 0" 13°30' 0" 13°47' 0" | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 55 12 43 12 56 7 30 50 | 57 13 22 49 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 60 14 50 9 57 13 22 49 | 58 10 55 15 53 4 27 45 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 58 10 58 20 57 7 30 56 | 53 11 53 12 57 10 30 52 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 15 55 0 16 10 0 15 53 0 16 11 0 13 57 0 14 7 0 13 30 0 13 47 0 | 15 55 12 52 3 55 10 27 40 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 55 10 50 5 43 3 30 57 | 57 10 53 13 55 8 42 42 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 55 10 57 18 55 6 22 44 | 53 10 57 18 55 6 22 44 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 55 8 53 5 52 8 39 56 | 55 8 53 5 52 8 39 56 | | | | | | | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 15 39 0 15 50 0 15 29 0 15 45 0 13 36 0 13 45 0 13 3 0 13 21 0 | 15 39 37 53 26 43 37 49 0 25 | | | | | | | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 37 52 27 42 35 47 9 30 | 43 50 32 50 38 50 7 40 | | | | | | | | | | |
| Frey. | | Petits arcs. | N. repoussé. \| N. attiré. | 42 55 23 45 37 51 16 38 | 43 58 26 47 42 55 0 52 | | | | | | | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 15 40 0 15 55 0 15 27 0 15 45 0 13 33 0 13 50 0 13 5 0 13 22 0 | 15 40 39 47 23 43 35 47 2 23 | | | | | | | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 40 53 25 36 35 51 3 24 | 43 50 27 37 42 51 8 30 | | | | | | | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 43 50 30 47 48 60 13 24 | 40 50 30 47 48 60 13 24 | | | | | | | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 40 53 35 52 50 65 17 41 | 40 53 35 52 50 65 17 41 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 15 55 0 16 10 0 15 52 0 16 12 0 13 52 0 14 5 0 13 27 0 13 29 0 | 15 55 8 47 6 57 5 25 40 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 54 10 55 13 55 12 31 60 | 55 12 62 15 55 5 30 46 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 55 12 54 11 59 7 23 50 | 52 12 52 5 60 15 52 47 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 56 10 52 5 60 15 52 47 | 55 12 51 5 57 6 30 45 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 15 57 0 16 8 0 15 52 0 16 8 0 13 59 0 14 3 0 13 43 0 13 60 0 | 15 57 55 12 51 5 57 6 30 45 | | | | | | | | | | |
| Moyennes... | Frey. | Petits arcs. | N. repoussé. \| N. attiré. | 55 12 55 11 55 2 30 42 | 55 12 55 10 56 10 23 50 | | | | | | | | | | |
| | Frey. | Petits arcs. | N. repoussé. \| N. attiré. | 57 8 55 16 56 10 23 50 | 56 7 53 5 55 0 27 47 | | | | | | | | | | |
| | Frey. | Petits arcs. | N. repoussé. \| N. attiré. | 51 5 46 6 55 5 26 50 | 51 5 46 6 55 5 26 50 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 15 45 0 15 57 0 15 27 0 15 41 0 13 47 0 13 61 0 13 2 0 13 19 0 | 15 45 45 57 26 48 52 67 3 20 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 45 60 33 49 35 46 46 10 30 30 | 43 55 28 48 43 50 10 10 27 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 43 55 25 46 32 50 2 32 | 48 55 25 46 32 50 2 32 | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. \| N. attiré. | 44 55 25 33 40 50 1 20 | 44 55 25 33 40 50 1 20 | | | | | | | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 15 41 0 15 57 0 15 35 0 15 48 0 13 40 0 13 50 0 13 1 0 13 25 0 | 15 41 45 57 29 46 35 49 4 21 | | | | | | | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 45 55 27 43 37 51 7 25 | 43 55 17 41 40 52 13 31 | | | | | | | | | | |
| | | Petits arcs. | N. repoussé. \| N. attiré. | 44 48 27 39 46 55 22 42 | 40 48 27 39 46 55 22 42 | | | | | | | | | | |
| Moyennes... | Frey. | | | 15 48 7 16 127 15 40 0 15 57 45 | 13 46 35 13 59 35 13 18 0 13 39 47 | | | | | | | | | | |
| | Frey. |  |  | ..... | ..... |  |  |  |  |  |  |  |  |  |  |
| | | | | 15 48 50 16 235 15 40 7 15 56 40 | 13 48 47 13 59 57 13 19 40 13 37 43 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Azimuts moyens où les observations ont été faites.

| Face au N. | Face au S. |
|------------|------------|
| 220°48'45" | 40°19' |

Points où l'aig. est perpend..
Mérid. { Face à l'E. $\frac{220^{\circ}48'45'' + 40^{\circ}19'}{2} = 130^{\circ}33'52''$
mag. { Face à l'O. $130^{\circ}33'52'' + 180^{\circ} = 310^{\circ}33'52''$

N. B. Les axes de cette aiguille sont passablement seu.

Avant pôles changés 15°51'50" { 14°46'25" { 14°46'37"
Après pôles changés 13 40 59 { Inclinaison

Avant pôles changés 15 52 3 { 14°46'47" { définitive.
Après pôles changés 13 41 32 {

INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 4.

| OBSERVATEURS. DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 4. | | | | | | | | REMARQUES. | |
|--|----------|--|----------|-------------|----------|---------------------------------|----------|-------------|----------|---|--|
| | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| RIO DE JANEIRO, BRÉSIL (2 ^e RELÂCHE). | | | | | | | | | | | |
| Frey. | 1820. | 12°27'0" | 12°50'0" | 11°60'0" | 12°21'0" | 17°17'0" | 17°45'0" | 17°17'0" | 17°32'0" | Azimuts moyens où les observations ont été faites. | |
| Sept. | 30 | 47 | 52 | 27 | 21 | 37 | 0 | 15 | | | |
| 1 ^{er} , de | 30 | 48 | 56 | 20 | 20 | 42 | 0 | 16 | | | |
| 3 ^h 0' | 27 | 52 | 52 | 12 | 24 | 45 | 16 55 | 8 | | | |
| à 4 ^h 0' | 29 | 50 | 56 | 15 | 22 | 45 | 56 | 13 | | | |
| soir. | 40 | 56 | 50 | 20 | 21 | 41 | 55 | 13 | | | |
| | 12 30 | 0 12 56 0 | 11 59 0 | 12 22 0 | 17 21 0 | 17 51 0 | 17 10 0 | 17 19 0 | | | |
| | 32 | 57 | 54 | 20 | 21 | 35 | 5 | 19 | | | |
| | 35 | 52 | 55 | 17 | 25 | 37 | 1 | 13 | | | |
| | 35 | 58 | 56 | 15 | 27 | 40 | 16 59 | 16 | | | |
| | 35 | 41 | 55 | 18 | 27 | 50 | 55 | 21 | | | |
| | 40 | 55 | 54 | 17 | 21 | 40 | 56 | 16 | | | |
| | 12 12 | 0 12 25 0 | 11 36 0 | 12 0 0 | 16 55 0 | 17 12 0 | 16 42 0 | 17 5 0 | | | |
| | 17 | 38 | 35 | 2 | 57 | 22 | 42 | 14 | | | |
| | 20 | 44 | 40 | 7 | 62 | 30 | 45 | 2 | | | |
| | 21 | 40 | 40 | 5 | 60 | 20 | 43 | 4 | | | |
| | 22 | 45 | 42 | 1 | 62 | 30 | 47 | 5 | | | |
| | 25 | 42 | 45 | 0 | 65 | 30 | 45 | 10 | | | |
| | 12 8 | 0 12 36 0 | 11 37 0 | 11 56 0 | 16 52 0 | 17 22 0 | 17 50 0 | 17 17 0 | | | |
| | 15 | 39 | 32 | 65 | 60 | 20 | 36 | 12 | | | |
| | 20 | 41 | 37 | 59 | 65 | 20 | 47 | 5 | | | |
| | 21 | 32 | 41 | 60 | 64 | 25 | 46 | 5 | | | |
| | 12 | 30 | 44 | 63 | 70 | 27 | 55 | 16 59 | | | |
| | 15 | 40 | 41 | 70 | 62 | 24 | 47 | 57 | | | |
| | 12 30 | 0 12 55 0 | 11 62 0 | 12 21 0 | 17 17 0 | 17 11 0 | 17 12 0 | 17 16 0 | | | |
| | 30 | 50 | 56 | 20 | 17 | 46 | 2 | 25 | | | |
| | 30 | 52 | 57 | 25 | 25 | 42 | 0 | 25 | | | |
| | 30 | 56 | 55 | 20 | 22 | 40 | 1 | 17 | | | |
| | 33 | 52 | 53 | 13 | 22 | 37 | 16 57 | 12 | | | |
| | 34 | 54 | 52 | 15 | 17 | 41 | 56 | 13 | | | |
| | 12 36 | 0 12 54 0 | 11 51 0 | 12 15 0 | 17 20 0 | 17 33 0 | 16 59 0 | 17 22 0 | | | |
| | 35 | 56 | 55 | 15 | 13 | 33 | 57 | 22 | | | |
| | 37 | 70 | 50 | 12 | 19 | 40 | 57 | 15 | | | |
| | 38 | 57 | 53 | 10 | 20 | 40 | 57 | 17 | | | |
| | 40 | 56 | 55 | 20 | 18 | 35 | 60 | 17 | | | |
| | 37 | 58 | 57 | 15 | 10 | 40 | 61 | 19 | | | |
| | 12 7 | 0 12 37 0 | 11 45 0 | 12 2 0 | 17 6 0 | 17 25 0 | 16 52 0 | 17 0 0 | | | |
| | 17 | 44 | 38 | 5 | 5 | 26 | 45 | 0 | | | |
| | 21 | 40 | 41 | 2 | 6 | 30 | 41 | 7 | | | |
| | 24 | 42 | 40 | 0 | 7 | 27 | 45 | 7 | | | |
| | 22 | 45 | 42 | 2 | 3 | 29 | 45 | 5 | | | |
| | 25 | 46 | 45 | 3 | 5 | 22 | 47 | 15 | | | |
| | 12 20 | 0 12 40 0 | 11 45 0 | 12 1 0 | 17 6 0 | 17 30 0 | 16 47 0 | 17 10 0 | | | |
| | 7 | 30 | 40 | 1 | 8 | 30 | 55 | 12 | | | |
| | 15 | 37 | 35 | 3 | 5 | 29 | 51 | 3 | | | |
| | 18 | 42 | 41 | 11 | 5 | 22 | 52 | 2 | | | |
| | 22 | 37 | 42 | 2 | 1 | 25 | 48 | 5 | | | |
| | 8 | 30 | 43 | 1 | 16 58 | 27 | 52 | 5 | | | |
| Moyennes... Frey. | 12 24 55 | 12 44 45 | 11 47 3 | 12 10 30 | ..... | 17 11 43 | 17 32 55 | 16 53 5 | 17 11 30 | Avant pôles changés 12°16'48") | |
| Moyennes... Frey. | 12 25 40 | 12 47 30 | 11 48 2 | 12 945 | ..... | 17 11 27 | 17 31 40 | 16 54 7 | 17 12 7 | Après pôles changés 17°12'18") 14°43'33" } 14°44'45" Inclinaison définitive. | |
| | | | | | | | | | | Avant pôles changés 12°17'44") 14°45'2 } Après pôles changés 17°12'21") 14°45'2 } | |

| OBSERVATEUR. | DATES et HEURES. | INDICES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | | | | |
|--|------------------|--------------|--|-----------|-------------|-----------|---------------------------------|-----------|-------------|-----------|--------------------------------|---------------------|---------------------|--|
| | | | AVANT D'AVOIR CHANGÉ LES PÔLES. | | | | PÔLES CHANGÉS PAR 40 FRICTIONS. | | | | REMARQUES. | | | |
| | | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | Haut. | | Bas. | |
| | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. |
| TRAVERSÉE DE RIO DE JANEIRO EN FRANCE. | | | | | | | | | | | | | | |
| Lm. | 1820. | N. attiré. | 12°52' 0" | 13°52' 0" | 12°45' 0" | 12°30' 0" | 13°47' 0" | 13°57' 0" | 14° 2' 0" | 14° 0' 0" | Points parallèles à la quille. | | | |
| | Octob. | | 14 15 | 22 | 22 | 32 | 14 10 | 57 | 13 15 | 32 | Grands arcs. | Division de droite. | Division de gauche. | |
| | 3 , | | 13 0 | 37 | 14 7 | 30 | 13 35 | 14 15 | 12 45 | 7 | | | | |
| de midi | | | 22 | 55 | 13 17 | 37 | 22 | 22 | 30 | 45 | | | | |
| | 30' | | 12 52 | 14 0 | 12 42 | 20 | 15 | 12 | 13 55 | 7 | | | | |
| à 2 ^h 30' | | | 13 47 | 13 45 | 30 | 0 | 12 22 | 7 | 42 | 0 | | | | |
| soir. | | | 12 45 | 55 | 11 52 | 13 15 | 52 | 12 22 | 0 | 5 | | | | |
| | | | 7 | 25 | 12 27 | 15 | 14 7 | 13 15 | 30 | 27 | | | | |
| | | | 7 | 12 45 | 13 0 | 12 22 | 13 22 | 15 | 57 | 2 | | | | |
| | | | 22 | 30 | 12 22 | 57 | 14 0 | 57 | 14 0 | 55 | | | | |
| | | | 37 | 13 42 | 52 | 17 | 13 7 | 14 7 | 13 57 | 52 | | | | |
| | | | 13 17 | 15 | 13 5 | 27 | 14 30 | 0 | 55 | 32 | | | | |
| | | N. repoussé. | | | | | | | | | | | | |
| | | | 13 12 | 0 | 12 25 | 0 | 12 20 | 0 | 12 0 | 0 | 13 40 | 0 | 13 35 | 0 |
| | | | 27 | 11 47 | 11 57 | 20 | 32 | 12 52 | 12 50 | 42 | | | | |
| | | | 12 52 | 12 40 | 12 37 | 22 | 7 | 13 22 | 17 | 10 | | | | |
| | | | 45 | 45 | 45 | 11 47 | 45 | 45 | 17 | 17 | | | | |
| | | | 25 | 22 | 11 0 | 13 12 | 37 | 12 57 | 14 2 | 13 0 | | | | |
| | | | 37 | 0 | 55 | 11 22 | 5 | 40 | 13 15 | 5 | | | | |
| | | | 22 | 13 10 | 12 17 | 12 40 | 14 35 | 25 | 7 | 30 | | | | |
| | | | 22 | 12 52 | 30 | 25 | 13 15 | 13 47 | 15 | 12 50 | | | | |
| | | | 10 | 42 | 13 0 | 13 7 | 12 25 | 14 2 | 12 0 | 45 | | | | |
| | | | 13 0 | 11 52 | 12 0 | 11 25 | 10 | 12 30 | 17 | 42 | | | | |
| | | | 12 32 | 12 25 | 22 | 52 | 11 45 | 10 | 25 | 55 | | | | |
| | | | 25 | 0 | 11 45 | 37 | 13 27 | 37 | 45 | 11 45 | | | | |
| | | N. attiré. | | | | | | | | | | | | |
| | | | 13 17 | 0 | 13 22 | 0 | 13 35 | 0 | 12 35 | 0 | 12 25 | 0 | 12 27 | 0 |
| | | | 12 22 | 12 52 | 12 22 | 7 | 22 | 13 45 | 45 | 13 15 | | | | |
| | | | 15 | 13 10 | 11 35 | 11 15 | 52 | 0 | 15 | 12 37 | | | | |
| | | | 52 | 45 | 13 15 | 12 2 | 15 | 12 17 | 0 | 0 | | | | |
| | | | 45 | 0 | 30 | 11 40 | 22 | 13 22 | 15 | 13 10 | | | | |
| | | | 40 | 5 | 12 22 | 22 | 14 5 | 12 7 | 20 | 11 15 | | | | |
| | | | 20 | 2 | 27 | 15 | 13 50 | 0 | 22 | 30 | | | | |
| | | | 30 | 17 | 11 52 | 15 | 22 | 13 17 | 13 10 | 40 | | | | |
| | | | 13 0 | 12 40 | 0 | 13 15 | 10 | 12 42 | 22 | 45 | | | | |
| | | | 12 27 | 13 25 | 52 | 11 40 | 7 | 11 40 | 12 30 | 13 22 | | | | |
| | | | 30 | 12 57 | 12 10 | 12 55 | 5 | 13 12 | 11 37 | 12 52 | | | | |
| | | | 11 47 | 2 | 13 0 | 7 | 30 | 55 | 12 0 | 22 | | | | |
| | | Petits arcs. | | | | | | | | | | | | |
| | | | 12 30 | 0 | 13 7 | 0 | 12 55 | 0 | 11 0 | 0 | 13 30 | 0 | 11 45 | 0 |
| | | | 25 | 12 27 | 11 42 | 37 | 50 | 12 15 | 50 | 45 | | | | |
| | | | 37 | 13 7 | 17 | 10 55 | 47 | 42 | 0 | 30 | | | | |
| | | | 20 | 42 | 37 | 11 50 | 10 | 47 | 13 15 | 13 30 | | | | |
| | | | 22 | 12 55 | 12 57 | 52 | 12 37 | 0 | 15 | 12 0 | | | | |
| | | | 37 | 17 | 11 40 | 12 52 | 11 30 | 42 | 12 0 | 55 | | | | |
| | | | 57 | 13 0 | 12 35 | 11 52 | 13 55 | 13 45 | 13 22 | 12 7 | | | | |
| | | | 35 | 12 45 | 22 | 30 | 12 57 | 12 55 | 12 30 | 11 7 | | | | |
| | | | 27 | 13 2 | 11 35 | 12 50 | 13 0 | 5 | 11 30 | 12 45 | | | | |
| | | | 12 | 12 45 | 10 45 | 45 | 12 40 | .27 | 12 37 | 11 40 | | | | |
| | | | 22 | 37 | 11 42 | 30 | 13 40 | 11 52 | 11 30 | 52 | | | | |
| | | | 13 7 | 27 | 12 15 | 37 | 12 52 | 12 52 | 12 32 | 13 10 | | | | |
| Moyennes... | Lm. | | 12 41 | 0 | 12 57 | 19 | 12 25 | 14 | 12 11 | 1 | ..... | ..... | ..... | ..... |
|  |  |  | ..... | ..... | ..... | ..... | 13 20 | 19 | 13 4 19 | 12 49 | 15 | 12 25 | 14 | Avant pôles changés 12°33'38" 12°44'12" Inclina. défait. |
| | | | | | | | | | | | | | | Après pôles changés 12 54 47 |

CHAP. III. — INCLINAISON DE L'AIGUILLE AIMANTÉE.

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§ II. — Observations faites sans changer les pôles.

| OBSERVATION. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 0. | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 1. | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | |
|--|---|-------------------------|-----------|-------------|--|---|-------------------------|--|--|-----------|-----------|-----------|---|
| | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | OBSERVATION. et HEURES. | SANS CHANGER LES PÔLES. | | | | | | |
| | | Face à l'O. | | Face à l'E. | | | Face à l'O. | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | | Haut. | Bas. | | | | | |
| LAZARET DE SAINTE-CROIX, ILE TÉNÉRIFFE.—AIGUILLES N° 0 et 1. | | | | | | | | | | | | | |
| Frey. | 1817. | 57°15' | 57°25' | 57°25' | 57°55' | Aximuts moyens où l'aiguille est perpendiculaire. | Frey. | 1817. | 58°30' | 58°35' | 57°58' | 58°20' | Aximuts moyens où l'aiguille est perpendiculaire. |
| Lm. | Octob. | 57 25 | 57 25 | 57 36 | 57 55 | | Lm. | Octob. | 58 25 | 58 36 | 57 58 | 58 16 | |
| Dp. | 25, | 57 35 | 57 45 | 57 36 | 57 58 | Face au N. \| Face au S. | Dp. | 26. | 58 16 | 58 31 | 58 0 | 58 20 | Face au N. \| Face au S. |
| Ld. | 0 ^h soir. | 57 30 | 57 45 | 57 35 | 57 58 | 346° 16' \| 166° 16' | | | 58 20 | 58 25 | 58 0 | 58 15 | 335° 9' \| 154° 30' |
| | | 57 29 | 57 40 | 57 30 | 57 55 | Méridien magnétique. | | | 58 15 | 58 0 | 58 0 | 58 20 | Méridien magnétique. |
| | | 57 25 | 57 30 | 57 46 | 58 5 | Face O. 346° 16' + 166° 16' = | | | 58 20 | 58 30 | 57 50 | 58 12 | Face O. 335° 9' + 154° 30' = |
| | | 57 30 | 57 45 | 57 45 | 57 8 | 2 | | | 58 17 | 58 30 | 58 0 | 58 20 | 2 |
| | | 57 35 | 57 45 | ..... | ..... | 256° 16'. Face E. 256° 16' — 180° = 76° 16'. | | | 58 12 | 58 27 | 57 58 | 58 16 | Face E. 244° 49' — 180° = 64° 49'. |
| | | Moyennes | 57°28'0" | 57°37'30" | 57°37'8" | 57°58'17" | Moyennes | 58°18'53" | 58°26'0" | 57°57'47" | 68°16'47" | 58°14'52" | |
| COTEAU DA GLORIA, A RIO DE JANEIRO (1 ^{re} RELÂCHE.)—AIGUILLES N° 0 ET 4. | | | | | | | | | | | | | |
| Frey. | 1817. | 16°10' | 16°20' | 16° 5' | 16°25' | Aximuts moyens où l'aiguille est perpendiculaire. | Frey. | 1818. | 11°57' | 12°15' | 12° 0' | 12°15' | Aximuts moyens où l'aiguille est perpendiculaire. |
| Lm. | Déc. | 16 5 | 16 25 | 15 45 | 16 18 | | Lm. | Janv. | 11 47 | 12 10 | 11 45 | 12 15 | |
| Ld. | 31, | 16 40 | 16 45 | 15 45 | 16 0 | Face au N. \| Face au S. | Ld. | 2, 8 ^h matin | 11 50 | 12 5 | 11 40 | 11 50 | Face au N. \| Face au S. |
| Pb. | de G. 1 ^{re} 20' | 16 30 | 16 30 | 16 45 | 17 0 | 314° 37' 6" \| 135° 17' 36" | | | 11 45 | 12 10 | 11 45 | 12 15 | 150° 43' 30" \| 239° 10' 50" |
| B. | soir. | 16 20 | 16 32 | 16 0 | 16 40 | Méridien magnétique. | | | 11 30 | 12 0 | 11 40 | 11 45 | Méridien magnétique. |
| | | 16 20 | 16 35 | 15 48 | 16 5 | Face O. 314° 37' 6" + 135° 17' 36" = | | | 11 45 | 12 0 | 11 20 | 11 45 | Face O. 150° 43' 30" + 329° 16' 50" = |
| | | 15 55 | 16 20 | 16 15 | 16 30 | 2 | | | 11 30 | 11 45 | 11 28 | 11 20 | 2 |
| | | 16 20 | 16 32 | 16 18 | 16 35 | 224° 57' 21". Face E. 224° 57' 21" — 180° = —44° 57' 25". | | | 11 30 | 11 45 | 11 45 | 12 15 | Face E. 240° 0' 20" — 180° = 60° 0' 20". |
| | | 16 20 | 16 20 | 15 30 | 15 45 | | | | 11 20 | 11 45 | 11 50 | 12 20 | |
| | | Moyennes | 16°18'0" | 16°29'24" | 15°58'30" | 16°20'18" | Moyennes | 11°37'24" | 11°58'0" | 11°39'18" | 12°3'30" | 11°49'30" | |
| CAPE-TOWN, CAP DE BONNE-ESPÉRANCE (AFRIQUE).—AIGUILLES N° 0 ET 1. | | | | | | | | | | | | | |
| Frey. | 1818. | 50°16' | 50°45' | 52° 0' | 52°12' | Aximuts moyens où l'aiguille est perpendiculaire. | Lb. | 1818. | 50° 2' | 50°32' | 50°30' | 50°33' | Aximuts moyens où l'aiguille est perpendiculaire. |
| Lc. | Mars, | 50 45 | 51 3 | 52 20 | 52 25 | | B. | Mars | 50 15 | 50 30 | 50 30 | 50 15 | |
| B. | 14, de 7 à 9 ^h matin. | 50 50 | 51 5 | 52 18 | 52 30 | Face au N. \| Face au S. | | 14, do 3 à 4 ^h soir. | 50 6 | 50 31 | 50 15 | 50 45 | Face au N. \| Face au S. |
| | | 51 15 | 51 20 | 52 34 | 52 30 | 126° 32' \| 306° 34' | | | 50 0 | 50 15 | 50 45 | 51 0 | 125° 47' \| 306° 5' |
| | | 51 05 | 51 50 | 52 20 | 52 20 | Méridien magnétique. | | | 49 44 | 50 24 | 49 49 | 50 10 | Méridien magnétique. |
| | | 51 0 | 51 25 | 52 15 | 52 20 | Face O. 126° 32' + 306° 34' = | | | 50 0 | 50 15 | 50 15 | 51 0 | Face O. 306° 5' 20" + 125° 47' 30" = |
| | | 51 15 | 51 20 | 52 30 | 52 23 | 2 | | | 49 57 | 50 10 | 50 17 | 50 18 | 2 |
| | | 51 0 | 51 35 | 52 20 | 52 40 | Face E. 216° 33' — 180° = 36° 33'. | | | 49 45 | 50 20 | 51 0 | 51 0 | Face E. 215° 36' 25" — 180° = 35° 36' 25". |
| | | 50 55 | 51 7 | 52 0 | 52 30 | | | | 50 12 | 50 42 | 50 28 | 50 48 | |
| | | 50 30 | 50 55 | 52 15 | 52 43 | | | | 50 15 | 50 45 | 51 30 | 51 0 | |
| | | 50 10 | 50 45 | 52 15 | 52 20 | | | | 50 3 | 50 42 | 50 37 | 51 0 | |
| | | Moyennes | 50 48'25" | 51 12'5" | 52°18'5" | 52°27'45" | Moyennes | 50°1'45" | 50°28'50" | 50°29'40" | 50°46'35" | 50°26'42" | |

| OBSERVATEUR. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 3. | | | | | | REMARQUES. | |
|--------------|--|--|----------|-------------|----------|--|------|--|--|
| | | SANS CHANGER LES PÔLES. | | | | | | | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | |
| Lc. R. | 1818. Juillet, 23, de 7 ^h à 8 ^h 30' matin. | 53°42'0" | 54° 7'0" | 53°22'0" | 53°45'0" | Not. Cette aiguille n° 3 a été mise en expérience à Bourbon avec la dose de magnétisme qu'elle avait au départ de l'Ile-de-France. On n'a pas interverti ses pôles, parce que le mauvais temps a empêché de descendre à terre les barreaux aimantés. | | | |
| | | 40 | 5 | 35 | 45 | | | Azimut moyen où les opérations ont été faites. | |
| | | 42 | 12 | 25 | 45 | | | | |
| | | 42 | 10 | 25 | 42 | | | | |
| | | 50 | 12 | 30 | 42 | | | | |
| | | 54 15 | 15 | 50 | (*) 60 | Points où l'aiguille est perpendiculaire. | | | |
| | | 17 | 17 | 50 | 60 | | | | |
| | | 15 | 15 | 50 | 75 | Méridien magnétique. $\left\{ \begin{array}{l} \text{Face O. } \frac{108^{\circ}48'15'' + 287^{\circ}28'15''}{2} = 198^{\circ}8'15'' \\ \text{Face E. } 198^{\circ}8'15'' - 180^{\circ} = 18^{\circ}8'15'' \end{array} \right.$ | | | |
| | | 15 | 17 | 52 | 57 | | | | |
| | | 12 | 15 | 50 | 70 | (*) 53°60' = 54°0'. | | | |
| | | 0 | 0 | 37 | 40 | | | | |
| | | 15 | 0 | 30 | 25 | Not. La pointe (A) de l'aiguille est ici la pointe Nord. | | | |
| | | 2 | 0 | 30 | 30 | | | | |
| | | 0 | 0 | 37 | 30 | | | | |
| | | 15 | 7 | 30 | 30 | | | | |
| | | 22 | 0 | 45 | 50 | | | | |
| | | 25 | 20 | 45 | 45 | | | | |
| | | 20 | 15 | 52 | 45 | | | | |
| | | 15 | 15 | 45 | 45 | | | | |
| | | 22 | 20 | (*) 60 | 52 | (*) 53°60' = 54°. | | | |
| | Moyennes | 54 6 18 | 54 10 6 | 53 40 0 | 53 46 18 | 53°55'45" = 90° — z" | | | |
| | | | | | | z" = 90° — 53°55'45" = 36°4'15". | | | |

Nous avons déterminé à l'Ile-de-France (voyez ci-dessus à la date des 4 et 8 juillet) l'erreur d'inclinaison dépendante de l'inéquilibration de cette aiguille n° 3 ; $a' = \frac{1}{2}(a' + a'')$ est le maximum de cette erreur correspondant au cas où l'inclinaison magnétique est zéro. On trouvera plus loin, à la Baie des Chiens-Marins, la valeur d'une quantité analogue (a'') donnée aussi par les observations.

Pour les points d'observation intermédiaires à l'Ile-de-France et à la Baie des Chiens-Marins il faudra multiplier cette correction $\cdot \frac{1}{2}(a' + a'')$, par le sinus de l'inclinaison observée, et l'on aura la correction convenable au lieu proposé. Ainsi pour le point actuel on a :

$$a' = 7^{\circ} 915'', 98. \text{ (Voyez § I les observations d'inclinaison des 4 et 8 juillet 1818.)}$$

$$a'' = 5^{\circ} 960', 08. \text{ (Voyez § I les observations de la baie des Chiens-Marins, 23 septembre 1818.)}$$

$$a' + a'' = 13^{\circ} 885'', 06$$

$$\text{et } z = \frac{1}{2}(a' + a'') = 6942'', 83; \text{ c'est le maximum de l'erreur angulaire d'équilibration, convenable au point où cette inclinaison est zéro.}$$

$$\frac{1}{2}(a' + a'') \sin z'' = (6942'', 83) \sin 36^{\circ}4'15'' = 4087'', 8 = 1^{\circ}8'7'', 8.$$

Ainsi, à Saint-Denis, de l'Ile Bourbon, l'inclinaison magnétique, angle au zenith

$$= z = z'' - a \sin z'' = 36^{\circ}4'15'' - 1^{\circ}8'8'' = 34^{\circ}56'7''.$$

et la même inclinaison comptée de la ligne horizontale

$$= 90^{\circ} - 34^{\circ}56'7'' = 55^{\circ}3'53''.$$

C'est, sur ce point, l'inclinaison magnétique définitive.

| OBSERVATEUR. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
|--------------|---|--|--|--|--|---|---|---|---|---|--|---|---|--|------------------------|------------------------|--|-----------|----------|-------------------------|--------|--|--|--|--|
| | DATES | | OBSERVATEUR. | | RÉSULTATS | | DATES | | OBSERVATEUR. | | RÉSULTATS | | et | | et | | | | | | | | | | |
| | et | HEURES. | et | HEURES. | DÉFINITIFS | et | et | HEURES. | et | HEURES. | SANS CHANGER LES PÔLES. | | et | HEURES. | et | HEURES. | | | | | | | | | |
| | | | | | et remarques. | | | | | | Face à l'O. | | | | | | | | | | | | | | |
| | | | | | | | | | | | Haut. | | | | | | | | | | | | | | |
| | | | | | | | | | | Bas. | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| R. Frey. | 1819. Févr. 10, midi. | 15° 0' 13 0 12 45 12 30 | 13°15' 12 30 12 45 12 45 | 12°55' 13 5 12 58 13 15 | 12°55' 12 30 13 20 13 15 | Direction parall. à la quille. 93°20' du cercle axial. Cap. du vais. E. 22°30' S. Point du cercle axial où l'aiguille est perpend. Face au N. 93°20'—22°30' —70°50'. Face au S. 70°50'—180°— 100°10'. Méridien magnétique. Face O. 70°50' — 90°— —19°10'. Face E. 180° — 19°10'— 160°50'. Mer, houleuse. Mouvements de roulis et de tangages quelquefois par saccades. | 15° 0' 13 45 13 45 12 30 13 15 | 13°15' 12 45 12 50 12 15 12 45 | 12°55' 13 20 13 20 13 15 13 8 | 12°55' 13 50 13 20 13 5 13 10 | 12°38' 13 38 12 23 13 52 | 12°52' 13 30 14 25 12 45 | 13°30' 13 30 14 25 13 0 | 12°47' 13 10 12 48 13 0 | | | | | | | Suite. | | | | |
| Moyennes. | R.... | 13° 4' 6" | 12°35' 0" | 12°56'42" | 12°58'54" | | | | | | | | | | | | | | | | | | | | |
| | Frey.. | ..... | ..... | ..... | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P. Frey. | 12, de 3 ^h à 4 ^h du soir. | N. attiré. N. repoussé. Petits arcs. Grands arcs. | 15°22' 15 15 15 0 15 15 15 8 15 22 | 14°45' 15 0 15 0 15 30 15 15 15 30 | 16°15' 15 0 15 15 15 0 14 45 14 45 | 15°35' 15 45 15 15 15 23 15 30 14 45 | Cap S. 11° E. Le point de mire était à 93°20' du cercle axial. on avait donc l'aiguille, dans le méridien magnétique, ainsi qu'il suit: Face E. 93° 20' + 11° = 104° 20'. Face O. 180°—104°20' = 75° 40'. Mer, un peu houleuse. Mouvements de roulis, as- sez réguliers. Tangages presque nuls. | 15 0 15 0 15 0 15 0 15 0 15 0 | 14 45 14 45 15 45 15 45 15 30 15 0 | 16 45 15 30 16 0 16 30 15 45 15 30 | 16 45 15 45 16 0 16 30 15 45 15 0 | 15°38'12" 12°35'24" | 12°38'12" 12°35'24" | 13° 12' 0" | 12°55'36" | 12 50 18 | { 12°53'42" 12°52'0" | | | | | |
| Moyennes. | (P.... Frey.) | 15°10'36" | 15° 1' 0" | 15°33' 6" | 15°37'18" | | | | | | | | | | | | | | | | | | | | |

| OBSERVATIONS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | | | RÉSULTATS DÉFINITIFS ET REMARQUES. | | |
|---|------------------------|--|--------------|-------------|------------|-------------|-----------|-----------|---------|-------------|--|------------------------------------|--------------------------------|---------------|
| | | SANS CHANGER LES PÔLES. | | | | | | | | | | | | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | |
| TRAVERSÉE DES MARIANNE AUX ILES SANDWICH. | | | | | | | | | | | | | | |
| Lm. | 1819. | Grands arcs. | N. repoussé. | N. attiré. | 28° 100' 0 | 29° 50' 0 | 28° 10' 0 | 28° 85' 0 | | | | | Points parallèles à la quille. | |
| Juin, | | 40 | | | 45 | | 15 | | 80 | | | | | |
| 22, | | 30 | | | 0 | | 10 | | 85 | | | | | |
| de | | 30 | | | 10 | | 50 | | 70 | | | | | |
| 10 ^h 40' | | 30 | | | 35 | | 40 | | 80 | | | | | |
| matin | | 80 | | | 20 | | 50 | | 50 | | | | | |
| à | | | | | | | | | | | | | | |
| midi. | | | | | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. | N. attiré. | 28 | 75 0 | 28 45 0 | 28 15 0 | 28 35 0 | | | | | |
| | | 45 | | | 70 | | 25 | | 30 | | | | | |
| | | 65 | | | 85 27 | | 30 | | 15 | | | | | |
| | | 55 | | | 45 28 | | 15 | | 30 | | | | | |
| | | 60 | | | 25 | | 15 | | 55 | | | | | |
| | | 55 | | | 55 | | 15 | | 5 | | | | | |
| | | | | | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. | N. attiré. | 28 | 65 0 | 27 55 0 | 28 20 0 | 28 30 0 | | | | | |
| | | 80 | | | 110 | | 15 | | 25 | | | | | |
| | | 70 | | | 65 | | 20 | | 10 | | | | | |
| | | 25 | | | 55 | | 35 | | 15 | | | | | |
| | | 30 | | | 50 | | 45 | | 30 | | | | | |
| | | 0 | | | 72 | | 20 | | 25 | | | | | |
| | | | | | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. | N. attiré. | 28 | 30 0 | 28 30 0 | 27 60 0 | 28 47 0 | | | | | |
| | | 12 | | | 45 | | 105 | | 30 | | | | | |
| | | 5 | | | 20 | | 112 | | 15 | | | | | |
| | | 0 | | | 30 | | 55 | | 15 | | | | | |
| | | 20 | | | 30 | | 107 | | 50 | | | | | |
| | | 35 | | | 15 | | 60 | | 50 | | | | | |
| | | | | | | | | | | | | | | |
| G. | | Grands arcs. | N. repoussé. | N. attiré. | 28 | 65 0 | 28 45 0 | 28 40 0 | 28 80 0 | | | | | |
| | | 50 | | | 95 | | 0 | | 20 | | | | | |
| | | 70 | | | 45 | | 45 | | 45 | | | | | |
| | | 70 | | | 25 | | 55 | | 20 | | | | | |
| | | 60 | | | 15 | | 0 | | 45 | | | | | |
| | | 60 | | | 90 | | 0 | | 30 | | | | | |
| | | | | | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. | N. attiré. | 28 | 105 0 | 28 95 0 | 28 50 0 | 28 20 0 | | | | | |
| | | 65 | | | 55 | | 30 | | 10 | | | | | |
| | | 110 | | | 45 | | 55 | | 15 | | | | | |
| | | 65 | | | 45 | | 45 | | 35 | | | | | |
| | | 50 | | | 35 | | 60 | | 37 | | | | | |
| | | 115 | | | 45 | | 60 | | 45 | | | | | |
| | | | | | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. | N. attiré. | 28 | 0 0 | 28 40 0 | 27 60 0 | 28 5 0 | | | | | |
| | | 50 | | | 45 | | 60 | | 55 | | | | | |
| | | 55 | | | 25 | | 90 | | 25 | | | | | |
| | | 20 | | | 30 | | 65 | | 45 | | | | | |
| | | 37 | | | 30 | | 65 | | 0 | | | | | |
| | | 65 | | | 25 | | 55 | | 55 | | | | | |
| | | | | | | | | | | | | | | |
| | | Grands arcs. | N. repoussé. | N. attiré. | 29 | 0 0 | 28 40 0 | 28 55 0 | 28 70 0 | | | | | |
| | | 0 | | | 40 | | 45 | | 80 | | | | | |
| | | 0 | | | 35 | | 30 | | 85 | | | | | |
| | | 0 | | | 35 | | 70 | | 55 | | | | | |
| | | 5 | | | 50 | | 40 | | 60 | | | | | |
| | | 20 | | | 50 | | 65 | | 55 | | | | | |
| | | | | | | | | | | | | | | |
| Moyennes. | Lm. | 28 | 43 12 | 28 44 15 | 28 21 50 | 28 | 40 5 | | | 28° 37' 21" | | | | |
| | G. | 29 | 2 22 28 | 45 0 28 | 32 30 | 28 | 41 20 | | | 28 45 18 | | | | { 28° 41' 19' |

| OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | |
|---------------|---|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--|--------------------------------|--|--|---------------------------------------|--------------------------------------|---|--|--|---------|---------|---|--|--|--|--|
| | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS DÉFINITIFS et remarques. | OBSERVATEURS. et HEURES. | SANS CHANGER LES PÔLES. | | | | OBSERVATEURS. et HEURES. | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | | | Face à l'O. | | Face à l'E. | | | | | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | | | | | | | | | | |
| Lm. | 1819. Juin, 29, de 10 ^h 15 ^m , matin à midi. | 34°55'0 30 65 45 75 60 | 34°30'0 60 37 60 45 60 | 36°25'0 15 20 0 30 20 | 36°30'0 30 35 35 25 30 | Points parallèles à la quille. Division de gauche. Division de droite. 184° 26' 175° 34' | Lm. | 1819. Juillet, 2, de 11 ^h 30' matin à 1 ^h soir. | 39°15'0 15 0 15 0 0 | 38°67'0 60 60 80 65 25 | 41° 5'0 30 15 15 15 0 | 40°75'0 60 60 85 75 55 | Points parallèles à la quille. Division de gauche. Division de droite. 184° 26' 175° 34' | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | |
| B. | Lm. | 34 50 0 | 34 60 0 | 36 15 0 | 36 12 0 | Grands arcs. N. repoussé. N. attiré. | G. | 34 50 0 | 34 50 0 | 35 65 0 | 36 0 0 | Cap. N. 11° 15' E. Méridien magnétique. Face O. 184° 26' — 11° 15' = 173° 11'. Face E. 173° 11' — 180° = 6° 49'. Pointe élevée. Sud. Mer..... Belle. Roulis..... Faibles. Tangages... Idem. Observation. Bonne. | 38 65 0 | 38 40 0 | 40 35 0 | 41 20 0 | Cap. N. 33° 45' E. Méridien magnétique. Face O. 184° 26' — 33° 45' = 150° 41'. Face E. 150° 41' — 180° = 29° 19'. Pointe élevée. Sud. Mer..... Un peu grosse Roulis..... Assez forte. Tangages... Peu considé- rables. Observation. Bonne. | RÉSULTATS DÉFINITIFS et remarques. | | | |
| | | 34 45 0 | 34 50 0 | 35 65 0 | 36 0 0 | Petits arcs. N. repoussé. N. attiré. | | 38 20 0 | 38 70 0 | 40 60 0 | 40 55 0 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 45 | 45 | 55 | 15 | | | 20 | 60 | 55 | 55 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 45 | 50 | 55 | 10 | | | 35 | 75 | 45 | 35 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 30 | 55 | 80 | 10 | Mer..... Belle. Roulis..... Faibles. Tangages... Idem. Observation. Bonne. | | 25 | 65 | 60 | 40 | Mer..... Un peu grosse Roulis..... Assez forte. Tangages... Peu considé- rables. Observation. Bonne. | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 45 | 45 | 60 | 0 | | | 55 | 50 | 50 | 50 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 45 | 60 | 60 | 15 | | | 30 | 60 | 75 | 60 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 34 50 0 | 34 35 0 | 35 37 0 | 35 45 0 | | | 38 60 0 | 38 21 0 | 40 45 0 | 40 60 0 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 55 | 45 | 35 | 35 | | | 35 | 35 | 55 | 40 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 50 | 30 | 45 | 40 | | | 40 | 30 | 60 | 60 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| Moyennes. | Lm. | 55 | 42 | 35 | 40 | | | 40 | 45 | 35 | 25 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 55 | 35 | 45 | 45 | | | 30 | 55 | 55 | 45 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 40 | 30 | 45 | 50 | | | 55 | 25 | 25 | 30 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 35 20 0 | 35 15 0 | 36 0 0 | 36 30 0 | | | 38 35 0 | 38 55 0 | 40 55 0 | 40 45 0 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 30 | 30 | 20 | 30 | | | 35 | 60 | 65 | 50 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 30 | 30 | 30 | 30 | | | 45 | 50 | 60 | 50 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 15 | 15 | 30 | 45 | | | 30 | 45 | 55 | 50 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 15 | 15 | 30 | 0 | | | 40 | 55 | 45 | 50 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 30 | 20 | 30 | 30 | | | 45 | 50 | 40 | 40 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 35 35 0 | 35 15 0 | 36 20 0 | 36 30 0 | | | 38 30 0 | 38 55 0 | 40 0 0 | 40 45 0 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| B. | Lm. | 35 | 15 | 30 | 15 | | | 60 | 55 | 0 | 25 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 15 | 30 | 30 | 15 | | | 75 | 50 | 25 | 45 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 30 | 15 | 15 | 15 | | | 55 | 40 | 20 | 35 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 30 | 15 | 30 | 20 | | | 30 | 50 | 5 | 55 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 15 | 5 | 30 | 15 | | | 75 | 5 | 15 | 25 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 34 30 0 | 34 30 0 | 36 15 0 | 36 0 0 | | | 38 20 0 | 38 30 0 | 40 60 0 | 40 60 0 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 15 | 30 | 15 | 0 | | | 5 | 45 | 25 | 40 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 20 | 30 | 15 | 5 | | | 40 | 25 | 35 | 52 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 45 | 30 | 15 | 15 | | | 40 | 45 | 75 | 40 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 20 | 30 | 15 | 15 | | | 25 | 40 | 40 | 35 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| Moyennes. | Lm. | 34 45 0 | 34 30 0 | 36 15 0 | 36 30 0 | | | 38 40 0 | 38 20 0 | 40 75 0 | 40 55 0 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 60 | 30 | 15 | 30 | | | 40 | 25 | 50 | 80 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 60 | 60 | 25 | 15 | | | 40 | 5 | 60 | 90 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 65 | 60 | 30 | 15 | | | 30 | 10 | 75 | 75 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 60 | 60 | 15 | 30 | | | 35 | 0 | 55 | 55 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 60 | 60 | 15 | 15 | | | 25 | 20 | 45 | 60 | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 34 49 52 | 34 46 5 | 36 3 0 | 36 8 12 | 35° 26' 47" | | 38 48 20 | 38 51 10 | 40 57 17 | 41 1 2 | 39° 54' 27" | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
| | | 35 3 45 | 34 59 10 | 36 20 50 | 36 19 10 | 35 40 44 | | 38 38 20 | 38 36 2 | 40 43 20 | 40 50 30 | 39 42 3 | 39° 48' 15" | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | |

VOYAGE AUTOUR DU MONDE.

| | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | | | | |
|--------------|--|--|----------|-------------|---------|------------------------------------|--------------|--|----------|-------------|-------------|--|--------------------------------|--|--|--|--|--|--|--|--|--|--|
| OBSERVATEUR. | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS DÉFINITIFS et remarques. | OBSERVATEUR. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | | | Face à l'O. | | Face à l'E. | | | | | | | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | | | | | | | | | | | | |
| Lm. | 1819. Juillet 3, de 10 ^h 15' matin à midi. | 40°35'0 | 41° 5'0 | 43° 5'0 | 42°40'0 | Points parallèles à la quille. | Lm. | 1819. Juillet 4, de 10 ^h à 11 ^h 30' matin. | 41°45'0 | 42°15'0 | 44°35'0 | 44°60'0 | Points parallèles à la quille. | | | | | | | | | | |
| | | 45 | 35 | 10 | 90 | | | 60 | 20 | 60 | 60 | | | | | | | | | | | | |
| | | 95 | 45 | 15 | 60 | Division de gauche. | | 45 | 10 | 50 | 80 | Division de gauche. | | | | | | | | | | | |
| | | 80 | 45 | 0 | 35 | Division de droite. | | 105 | 15 | 30 | 75 | Division de droite. | | | | | | | | | | | |
| | | 80 | 50 | 15 | 50 | 184° 26' | | 70 | 35 | 60 | 60 | 184° 26' | | | | | | | | | | | |
| | | 60 | 0 | 0 | 80 | 175° 34' | | 75 | 75 | 30 | 45 | 175° 34' | | | | | | | | | | | |
| | | 40 45 0 | 40 20 0 | 42 55 0 | 42 70 0 | | | 42 30 0 | 42 25 0 | 44 50 0 | 44 40 0 | | | | | | | | | | | | |
| | | 65 | 80 | 30 | 40 | Cap. N. 33° 45' E. | | 10 | 30 | 50 | 30 | Méridien magnétique. | | | | | | | | | | | |
| | | 60 | 95 | 30 | 40 | Mer..... Un peu creuse. | | 10 | 20 | 60 | 30 | Rouli..... Assez forte. | | | | | | | | | | | |
| | | 60 | 75 | 55 | 55 | Tangage... Faibles. | | 15 | 10 | 60 | 30 | Observation. Passable. | | | | | | | | | | | |
| | | 40 | 80 | 20 | 30 | Face O. 184° 26'—33° 45' | | 25 | 15 | 30 | 40 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 75 | 115 | 40 | 55 | Pointe élevée. Sud. | | 5 | 25 | 45 | 50 | Pointe élevée. Sud. | | | | | | | | | | | |
| | | 40 45 0 | 40 85 0 | 42 0 0 | 43 35 0 | Mer..... Assez belle. | | 41 45 0 | 42 25 0 | 44 30 0 | 44 35 0 | Rouli..... Us peu fort. | | | | | | | | | | | |
| | | 60 | 60 | 35 | 20 | Tangage... Faibles. | | 60 | 30 | 30 | 30 | Observation. Passable. | | | | | | | | | | | |
| | | 70 | 90 | 55 | 30 | Face O. 184° 26'—33° 45' | | 35 | 25 | 10 | 40 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 45 | 90 | 45 | 15 | Mer..... Un peu creuse. | | 45 | 0 | 15 | 20 | Rouli..... Assez forte. | | | | | | | | | | | |
| | | 60 | 45 | 66 | 30 | Tangage... Faibles. | | 50 | 10 | 15 | 30 | Observation. Passable. | | | | | | | | | | | |
| | | 55 | 75 | 60 | 15 | Face O. 184° 26'—33° 45' | | 45 | 20 | 10 | 30 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 40 40 0 | 40 45 0 | 42 25 0 | 42 50 0 | Mer..... Assez belle. | | 41 35 0 | 41 60 0 | 44 25 0 | 44 20 0 | Rouli..... Us peu fort. | | | | | | | | | | | |
| | | 60 | 50 | 40 | 62 | Tangage... Faibles. | | 40 | 50 | 30 | 30 | Observation. Passable. | | | | | | | | | | | |
| | | 60 | 55 | 25 | 50 | Face O. 184° 26'—33° 45' | | 40 | 60 | 40 | 35 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 45 | 55 | 35 | 60 | Mer..... Un peu creuse. | | 35 | 50 | 30 | 25 | Rouli..... Assez forte. | | | | | | | | | | | |
| | | 45 | 45 | 35 | 47 | Tangage... Faibles. | | 45 | 45 | 45 | 25 | Observation. Passable. | | | | | | | | | | | |
| | | 55 | 15 | 22 | 60 | Face O. 184° 26'—33° 45' | | 45 | 60 | 45 | 35 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| R. | | 41 0 0 | 41 30 0 | 43 25 0 | 42 70 0 | Mer..... Assez belle. | | 41 50 0 | 42 30 0 | 44 30 0 | 44 45 0 | Rouli..... Us peu fort. | | | | | | | | | | | |
| | | 7 | 30 | 15 | 85 | Tangage... Faibles. | | 60 | 30 | 22 | 30 | Observation. Passable. | | | | | | | | | | | |
| | | 0 | 20 | 20 | 75 | Face O. 184° 26'—33° 45' | | 60 | 30 | 22 | 30 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 10 | 30 | 5 | 70 | Mer..... Un peu creuse. | | 75 | 15 | 30 | 25 | Rouli..... Assez forte. | | | | | | | | | | | |
| | | 30 | 22 | 30 | 95 | Tangage... Faibles. | | 90 | 0 | 15 | 30 | Observation. Passable. | | | | | | | | | | | |
| | | 0 | 22 | 25 | 50 | Face O. 184° 26'—33° 45' | | 42 0 0 | 42 12 0 | 44 30 0 | 44 30 0 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 40 87 0 | 41 20 0 | 43 5 0 | 43 5 0 | Mer..... Assez belle. | | 30 | 0 | 30 | 52 | Rouli..... Us peu fort. | | | | | | | | | | | |
| | | 75 | 30 | 5 | 10 | Tangage... Faibles. | | 0 | 30 | 30 | 30 | Observation. Passable. | | | | | | | | | | | |
| | | 45 | 30 | 10 | 5 | Face O. 184° 26'—33° 45' | | 0 | 0 | 35 | 60 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 67 | 30 | 25 | 10 | Mer..... Un peu creuse. | | 0 | 2 | 30 | 45 | Rouli..... Assez forte. | | | | | | | | | | | |
| | | 50 | 15 | 20 | 5 | Tangage... Faibles. | | 30 | 30 | 45 | 45 | Observation. Passable. | | | | | | | | | | | |
| | | 75 | 20 | 10 | 5 | Face O. 184° 26'—33° 45' | | 30 | 30 | 45 | 45 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 40 55 0 | 40 60 0 | 42 55 0 | 42 50 0 | Mer..... Assez belle. | | 30 | 15 | 15 | 30 | Rouli..... Us peu fort. | | | | | | | | | | | |
| | | 52 | 55 | 55 | 80 | Tangage... Faibles. | | 50 | 15 | 30 | 15 | Observation. Passable. | | | | | | | | | | | |
| | | 65 | 45 | 60 | 65 | Face O. 184° 26'—33° 45' | | 30 | 30 | 0 | 30 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 60 | 50 | 55 | 75 | Mer..... Un peu creuse. | | 30 | 30 | 0 | 30 | Rouli..... Assez forte. | | | | | | | | | | | |
| | | 60 | 60 | 45 | 50 | Tangage... Faibles. | | 30 | 30 | 0 | 30 | Observation. Passable. | | | | | | | | | | | |
| | | 80 | 65 | 70 | 65 | Face O. 184° 26'—33° 45' | | 30 | 0 | 22 | 15 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 40 80 0 | 41 40 0 | 42 50 0 | 42 80 0 | Mer..... Assez belle. | | 30 | 30 | 30 | 60 | Rouli..... Us peu fort. | | | | | | | | | | | |
| | | 85 | 15 | 80 | 50 | Tangage... Faibles. | | 30 | 30 | 30 | 60 | Observation. Passable. | | | | | | | | | | | |
| | | 90 | 25 | 75 | 80 | Face O. 184° 26'—33° 45' | | 30 | 30 | 30 | 45 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| | | 80 | 50 | 75 | 75 | Mer..... Un peu creuse. | | 15 | 30 | 30 | 60 | Rouli..... Assez forte. | | | | | | | | | | | |
| | | 55 | 30 | 55 | 60 | Tangage... Faibles. | | 45 | 15 | 15 | 60 | Observation. Passable. | | | | | | | | | | | |
| | | 45 | 20 | 60 | 50 | Face O. 184° 26'—33° 45' | | 30 | 0 | 0 | 60 | Face E. 150° 41'—180°—29° 10'. | | | | | | | | | | | |
| Moyennes. | Lm. | 40 57 30 | 41 11 27 | 42 44 55 | 43 1 37 | 41° 58' 52" | | 42 15 25 | 44 36 52 | 44 39 47 | 43° 22' 14" | | | | | | | | | | | | |
| | R. | 41 7 12 | 41 18 55 | 43 8 45 | 43 7 42 | 42° 4' 46" | | 42 17 27 | 44 14 30 | 44 23 50 | 43 18 44 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | |
|---------------|---|-------------------------|-----------|-------------|------------|--|--------------------------------|-------------------------|--|--------------|-----------|--------------------------|-----------|-------------|--------------------------------|----------|--|--|--|--|--|--|--|--|
| | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS DÉFINITIFS et remarques. | OBSERVATEURS. HEURES. | SANS CHANGER LES PÔLES. | | | | OBSERVATEURS. HEURES. | INDICES. | Face à l'O. | | INDICES. | Face à l'O. | | | | | | | |
| | | INDICES. | | Face à l'O. | | | | INDICES. | | Face à l'E. | | | | Haut. | Bas. | Haut. | Bas. | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | | | | | Haut. | Bas. | | | | | | | | | | | | | |
| Lm. | 1819. Juillet, 5, de 10 ^h 15' à 11 ^h matin. | Grands arcs. | 44° 25' 0 | 44° 40' 0 | 46° 55' 0 | 47° 0' 0 | Points parallèles à la quille. | Lm. | 1819. Juillet, 6, de 10 ^h 15' matin. | Grands arcs. | 46° 40' 0 | 46° 35' 0 | 46° 72' 0 | 47° 10' 0 | Points parallèles à la quille. | | | | | | | | | |
| | | N. repoussé. | 40 | 40 | 65 | 5 | | | | N. repoussé. | 35 | 40 | 62 | 10 | | | | | | | | | | |
| | | N. attiré. | 20 | 30 | 60 | 10 | Division de gauche. | | | N. repoussé. | 40 | 30 | 55 | 5 | | | | | | | | | | |
| | | | 35 | 30 | 60 | 0 | Division de droite. | | | N. attiré. | 40 | 25 | 70 | 17 | | | | | | | | | | |
| | | | 20 | 48 | 57 | 0 | | | | | 37 | 30 | 70 | 5 | | | | | | | | | | |
| | | | 40 | 35 | 55 | 15 | | | | | 35 | 30 | 75 | 10 | | | | | | | | | | |
| | | | 44 35 0 | 44 65 0 | 46 45 0 | 46 60 0 | 184° 26' | | | | 184° 26' | 175° 34' | | | | | | | | | | | | |
| | | Petits arcs. | 20 | 45 | 50 | 60 | | | | | | | | | | | | | | | | | | |
| | | N. repoussé. | 20 | 55 | 50 | 40 | | | | | | | | | | | | | | | | | | |
| | | N. attiré. | 35 | 45 | 55 | 50 | | | | | | | | | | | | | | | | | | |
| | | | 45 | 45 | 45 | 60 | | | | | | | | | | | | | | | | | | |
| | | | 40 | 40 | 55 | 50 | | | | | | | | | | | | | | | | | | |
| | | | 44 45 0 | 44 35 0 | 47 15 0 | 47 10 0 | | | | | | | | | | | | | | | | | | |
| | | | 35 | 40 | 20 | 25 | | | | | | | | | | | | | | | | | | |
| | | | 30 | 30 | 30 | 30 | | | | | | | | | | | | | | | | | | |
| | | | 25 | 40 | 30 | 30 | | | | | | | | | | | | | | | | | | |
| | | | 40 | 30 | 25 | 30 | | | | | | | | | | | | | | | | | | |
| | | | 40 | 40 | 30 | 5 | | | | | | | | | | | | | | | | | | |
| | | | 44 35 0 | 44 30 0 | 46 0 0 | 46 10 0 | | | | | | | | | | | | | | | | | | |
| | | | 25 | 37 | 0 | 15 | | | | | | | | | | | | | | | | | | |
| | | | 30 | 25 | 17 | 20 | | | | | | | | | | | | | | | | | | |
| | | | 30 | 45 | 15 | 20 | | | | | | | | | | | | | | | | | | |
| | | | 25 | 45 | 10 | 15 | | | | | | | | | | | | | | | | | | |
| | | | 25 | 40 | 20 | 10 | | | | | | | | | | | | | | | | | | |
| Db. | | Grands arcs. | | | | | | | | | | | | | | | | | | | | | | |
| | | N. repoussé. | | | | | | | | | | | | | | | | | | | | | | |
| | | N. attiré. | | | | | | | | | | | | | | | | | | | | | | |
| | | 44 45 0 | 44 60 0 | 46 30 0 | 46 35 0 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 60 | 15 | 40 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 60 | 25 | 30 | | | | | | | | | | | | | | | | | | | |
| | | 50 | 60 | 20 | 30 | | | | | | | | | | | | | | | | | | | |
| | | 50 | 60 | 30 | 35 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 50 | 30 | 30 | | | | | | | | | | | | | | | | | | | |
| | | Grands arcs. | | | | | | | | | | | | | | | | | | | | | | |
| | | N. repoussé. | | | | | | | | | | | | | | | | | | | | | | |
| | | N. attiré. | | | | | | | | | | | | | | | | | | | | | | |
| | | 44 60 0 | 45 0 0 | 46 45 0 | 46 45 0 | | | | | | | | | | | | | | | | | | | |
| | | 55 | 15 | 50 | 50 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 10 | 35 | 45 | | | | | | | | | | | | | | | | | | | |
| | | 50 | 0 | 40 | 30 | | | | | | | | | | | | | | | | | | | |
| | | 60 | 0 | 45 | 35 | | | | | | | | | | | | | | | | | | | |
| | | 50 | 10 | 30 | 30 | | | | | | | | | | | | | | | | | | | |
| | | Grands arcs. | | | | | | | | | | | | | | | | | | | | | | |
| | | N. repoussé. | | | | | | | | | | | | | | | | | | | | | | |
| | | N. attiré. | | | | | | | | | | | | | | | | | | | | | | |
| | | 44 60 0 | 44 45 0 | 46 40 0 | 46 35 0 | | | | | | | | | | | | | | | | | | | |
| | | 60 | 60 | 30 | 40 | | | | | | | | | | | | | | | | | | | |
| | | 60 | 60 | 30 | 40 | | | | | | | | | | | | | | | | | | | |
| | | 50 | 45 | 40 | 45 | | | | | | | | | | | | | | | | | | | |
| | | 70 | 55 | 30 | 30 | | | | | | | | | | | | | | | | | | | |
| | | 50 | 45 | 30 | 35 | | | | | | | | | | | | | | | | | | | |
| | | Grands arcs. | | | | | | | | | | | | | | | | | | | | | | |
| | | N. repoussé. | | | | | | | | | | | | | | | | | | | | | | |
| | | N. attiré. | | | | | | | | | | | | | | | | | | | | | | |
| | | 45 30 0 | 45 15 0 | 46 40 0 | 46 30 0 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 15 | 30 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 20 | 15 | 45 | 45 | | | | | | | | | | | | | | | | | | | |
| | | 10 | 15 | 30 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 0 | 5 | 25 | 20 | | | | | | | | | | | | | | | | | | | |
| | | 20 | 10 | 45 | 20 | | | | | | | | | | | | | | | | | | | |
| Moyennes. | Lm. | 44 31 40 | 44 30 47 | 46 51 | 0 46 53 45 | 45° 44' 3" | | | | | | | | | | | | | | | | | | |
| | Db. | 45 1 27 | 45 2 5 | 46 33 45 | 46 34 22 | 45 47 55 | | | | | | | | | | | | | | | | | | |
| | Moyennes. | | | | | | | | | | | | | | | | | | | | | | | |
| | Lm. | 46 2 52 | 46 6 42 | 46 46 22 | 47 0 10 | 46° 29' 2" | | | | | | | | | | | | | | | | | | |
| | Fb. | 45 46 40 | 45 47 17 | 47 9 22 | 47 8 32 | 46 27 58 | | | | | | | | | | | | | | | | | | |

| OBSERVATEUR. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | |
|---|---------------------------------------|---|--|---|---|---------------------------------------|---|--------------------------------|--|--|---|--|---|---------------------------------------|--|---------------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|
| | DATES | | SANS CHANGER LES PÔLES. | | | | DATES | | SANS CHANGER LES PÔLES. | | | | DATES | | SANS CHANGER LES PÔLES. | | | | | | | | | | | |
| | et | HEURES. | INDICES. | | Face à l'O. | | Face à l'E. | | | et | HEURES. | INDICES. | | Face à l'O. | | Face à l'E. | | | | | | | | | | |
| | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | | | | |
| TRÄVERSÉE DES MARIANNE AUX ILES SANDWICH. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lm. | 1819. | Juillet, 7, de 10 ^h 33' à 11 ^h 43' matin. | Grands arcs. N. attiré. N. repoussé. | 45°35'0 105 95 70 90 70 | 46°45'0 15 20 40 15 20 | 46°20'0 15 25 20 20 27 | 46°30'0 32 30 30 27 20 | Points parallèles à la quille. | Lm. | 1819. | Juillet, 8. de 10 ^h à 11 ^h 30' matin. | Grands arcs. N. attiré. N. repoussé. | 47°65'0 57 62 80 45 184° 26' 175° 34' | 47°70'0 40 37 10 30 35 | 48°25'0 35 35 27 30 35 | 48°50'0 25 35 27 35 45 | Points parallèles à la quille. | | | | | | | | | |
| | | | Petits arcs. N. attiré. N. repoussé. | 45 50 0 45 30 30 30 35 32 | 45 55 0 45 45 55 75 55 30 | 45 55 0 40 65 15 5 5 | Division de gauche. Division de droite. | | | Grands arcs. N. attiré. N. repoussé. | 47 15 0 30 17 15 10 10 | 47 50 0 15 8 25 40 15 | 47 45 0 40 37 45 35 45 | 47 25 0 25 67 52 65 45 | Division de gauche. Division de droite. | | | | | | | | | | | |
| | | | | 45 70 0 52 50 77 65 40 | 45 60 0 50 50 65 55 40 | 45 50 0 50 50 60 60 65 | Cap. N. 11° 15' E. Méridien magnétique. | | | | 47 60 0 40 30 10 10 10 | 47 30 0 30 8 25 30 15 | 47 40 0 30 17 20 30 30 | 47 25 0 25 67 52 65 50 | Cap. N. 45° E. Méridien magnétique. | | | | | | | | | | | |
| | | | | 45 20 0 20 25 10 20 17 | 45 37 0 20 20 30 30 25 | 45 15 0 25 35 25 30 40 | Face O. 184° 26'—11° 15' = 173° 11'. Face E. 173° 11'—180°— 6° 49' | | | | 47 30 0 27 32 32 30 15 | 47 65 0 32 55 45 50 40 | 46 70 0 45 45 55 45 35 | 46 47 0 47 55 57 40 35 | Pointe élevée. Sud. | | | | | | | | | | | |
| G. | | | Grands arcs. N. attiré. N. repoussé. | 46 25 0 20 30 45 30 30 | 46 30 0 40 30 20 35 20 | 46 50 0 55 25 20 35 20 | Mer. Belle. Roulis. Faibles. Tangages... Idem. Observation. Bonne. | | | Petits arcs. N. attiré. N. repoussé. | 47 30 0 60 35 55 15 35 | 47 60 0 45 37 62 65 45 | 47 25 0 0 35 35 60 55 | 47 25 0 0 35 35 60 55 | Mer. Un peu houleux. Roulis. Irréguliers et forts par inter- valles. Tangages... Faibles. Observation. Assez bonne. | | | | | | | | | | | |
| | | | Petits arcs. N. attiré. N. repoussé. | 45 40 0 20 60 25 30 45 | 45 50 0 30 25 50 30 55 | 45 42 0 55 50 40 55 15 | 45 27 0 60 37 50 65 45 | | | Grands arcs. N. attiré. N. repoussé. | 47 25 0 20 50 30 40 30 | 47 50 0 45 50 45 55 35 | 47 62 0 50 60 55 62 50 | 47 55 0 60 60 60 62 60 | | | | | | | | | | | | |
| | | | | 46 25 0 15 10 30 25 20 | 45 70 0 15 90 70 85 85 | 46 20 0 2 20 25 7 2 | 45 70 0 70 60 75 57 62 | | | Petits arcs. N. attiré. N. repoussé. | 47 35 0 45 50 40 40 35 | 47 27 0 35 35 30 15 35 | 47 57 0 60 65 65 65 60 | 47 60 0 67 65 50 52 62 | | | | | | | | | | | | |
| | | | | 45 25 0 25 20 25 25 25 | 45 30 0 25 25 30 20 40 | 45 32 0 32 50 45 55 37 | 45 60 0 40 40 35 50 70 | | | Grands arcs. N. attiré. N. repoussé. | 47 20 0 30 30 30 20 27 | 47 30 0 30 37 20 45 35 | 47 60 0 70 57 05 60 55 | 48 10 0 67 65 50 52 62 | | | | | | | | | | | | |
| Moyennes. | L.m. | 45 47 12 45 51 25 45 55 22 46 3 10 | | 45° 54' 17" | | | | | Moyennes. | L.m. | 47 37 10 47 41 32 47 36 55 47 42 47 47 47 6 | | | | | | | | | | | | | | | |
| | G. | 45 57 55 45 57 5 46 | | 46 2 27 46 4 27 46 0 29 | | | | | | R. | 47 34 45 47 37 20 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | |
|---------------|---|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|-------------|--|--|--|---|---|---|---|--|-------------------------------------|--|---|------------------------------------|----------------------|--|--|--|
| | | SANS CHANGER LES PÔLES. | | | | SANS CHANGER LES PÔLES. | | | | | | SANS CHANGER LES PÔLES. | | | | Face à l'O. | | Face à l'E. | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Lm. | 1819. Juillet 12, de 10 ^h 15' matin à midi. | Grands arcs. N. attiré. N. repoussé. | 52°40'0 60 62 60 90 65 | 53°15'0 5 5 5 10 2 | 52°32'0 35 17 32 15 37 | 52°35'0 25 25 27 22 20 | Points parallèles à la quille. | Lm. | 1819. Juillet 13, de 10 ^h 50' matin à midi 15'. | Grands arcs. N. attiré. N. repoussé. | 54°40'0 40 30 30 40 -30 42 | 54°45'0 30 20 37 37 17 40 | 52°30'0 15 30 27 17 15 15 | Points parallèles à la quille. | R. | Grands arcs. N. attiré. N. repoussé. | 54 35 0 30 17 5 32 2 | 54 20 0 7 20 30 25 32 32 | 52 10 0 15 5 15 10 15 15 | Cap. N. 67° 30' E. | Méridien magnétique. | Division de gauche. Division de droite. | Division de gauche. Division de droite. | |
| | | Petits arcs. N. attiré. N. repoussé. | 52 45 0 65 65 75 65 60 | 53 30 0 10 15 15 20 30 | 52 20 0 25 35 42 42 30 | 52 40 0 20 10 15 80 15 | Division de gauche. Division de droite. 184° 26' 175° 34' | | | 52 30 0 5 5 5 10 0 | 52 25 0 62 55 40 40 65 | 52 5 0 7 5 15 10 12 | 52 5 0 7 5 35 22 22 | Face O. 184° 26'—50° 15' = 128° 11'. Face E. 128° 11'—180°— 51° 49'. | Face O. 184° 26'—67° 30' = 116° 56'. Face E. 116° 56'—180°— 63° 4'. | Pointe élevée. Sud. | Pointe élevée. Sud. | Mer..... Belle. Roulis..... Presque nuls. Tangages... Idem. Observation. Bonne. | Mer..... Très belle. Roulis..... Presque nuls. Tangages... Nuls. Observation. Bonne. | | | | | |
| G. | | Grands arcs. N. attiré. N. repoussé. | 53 15 0 17 10 15 10 17 | 53 10 0 35 10 27 30 15 | 52 20 0 10 0 12 12 5 | 52 17 0 40 32 17 40 30 | N. attiré. N. repoussé. | | | 53 52 0 75 45 45 55 60 | 53 55 0 45 45 45 45 47 | 52 20 0 5 20 20 47 40 | 52 27 0 25 30 15 7 22 | 52 25 0 25 30 15 7 27 | Mer..... Très belle. Roulis..... Presque nuls. Tangages... Nuls. Observation. Bonne. | | | | | | | | | |
| Moyennes. | Lm. G. | Petits arcs. N. attiré. N. repoussé. | 53 0 0 0 7 5 2 0 | 52 50 0 47 57 60 50 50 | 52 15 0 30 15 20 15 15 | 52 32 0 40 60 62 40 42 | N. attiré. N. repoussé. | | | 54 15 0 20 20 10 15 12 | 54 0 0 0 65 60 57 57 60 | 52 25 0 0 30 25 0 0 | 52 25 0 25 30 15 7 20 | | | | | | | | | | | |
| | | Grands arcs. N. attiré. N. repoussé. | 52 47 0 47 45 65 50 60 | 52 55 0 60 62 62 40 42 | 52 47 0 40 35 45 60 40 | 52 42 0 90 62 85 60 90 | N. attiré. N. repoussé. | | | 54 0 0 0 17 5 15 12 | 53 57 0 65 60 57 57 35 | 52 35 0 30 25 30 30 35 | 52 35 0 40 47 30 25 45 | | | | | | | | | | | |
| | | Petits arcs. N. attiré. N. repoussé. | 52 10 0 17 17 32 32 30 | 52 27 0 32 20 35 32 32 | 51 67 0 60 50 45 55 42 | 52 20 0 15 2 12 10 20 | N. attiré. N. repoussé. | | | 53 75 0 55 65 55 55 75 | 53 35 0 45 45 37 35 45 | 52 30 0 15 15 30 25 30 | 52 30 0 35 30 40 40 30 | | | | | | | | | | | |
| | | Grands arcs. N. attiré. N. repoussé. | 52 32 0 30 35 35 32 40 | 52 25 0 27 32 42 35 35 | 52 2 0 7 12 15 7 10 | 52 35 0 17 35 20 30 5 | N. attiré. N. repoussé. | | | 53 50 0 40 42 40 45 45 | 53 42 0 40 47 45 40 40 | 52 15 0 22 20 25 30 30 | 52 35 0 25 20 20 25 45 | | | | | | | | | | | |
| Moyennes. | Lm. G. | Lm. G. | 52 42 32 52 43 7 | 53 8 52 52 42 3 | 52 20 45 52 16 12 | 52 25 30 52 34 50 | 52°30'25" 52 34 3 | 52°36'45" | Moyennes. | Lm. R. | 54 14 15 54 2 32 | 54 10 30 53 50 42 | 52 16 25 52 25 47 | 52 21 30 52 30 30 | 53°15'40" 53 12 40 | 53°14' 1" 53 12 40 | | | | | | | | |

| OBSERVATIONS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS | | | |
|--|---------------------------------------|-------------------------|------------|-------------|------------|--|---------------------|---------------|---------------------------------------|------------------|-------------------------|-----------|-------------|------------|------------|--------------------------------|-------------|---------------|--|--|
| | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS | | | | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS | | | | | |
| | | INDICES. | | Face à l'O. | | DÉFINITIFS | | et remarques. | | | INDICES. | | Face à l'O. | | DÉFINITIFS | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| TRAVERSÉE DES MARIANNE AUX ILES SANDWICH. | | | | | | | | | | | | | | | | | | | | |
| Lm. Juillet 16, de 10 ^b 15' matin à midi 10'. | 1819. | 54° 50' 0 | 55° 15' 0 | 55° 45' 0 | 55° 40' 0 | Poins parallèles à la quille. | | | | | 1819. | 50° 45' 0 | 50° 42' 0 | 55° 60' 0 | 56° 7' 0 | Points parallèles à la quille. | | | | |
| | | 40 | 20 | 40 | 37 | | | | | | 37 | 37 | 40 | 7 | | | | | | |
| | | 50 | 5 | 55 | 37 | Division de gauche. | Division de droite. | | | | 45 | 35 | 40 | 15 | | | | | | |
| | | 75 | 7 | 50 | 55 | | | | | | 45 | 57 | 60 | 0 | | | | | | |
| | | 65 | 20 | 55 | 60 | | | | | | 35 | 50 | 40 | 2 | | | | | | |
| | | 65 | 15 | 60 | 75 | 184° 26' | 175° 34' | | | | 40 | 45 | 60 | 10 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | 54° 60' 0 | 54° 55' 0 | 55° 10' 0 | 54° 80' 0 | Cap. N. 78° 45' E. | | | | | 59° 57' 0 | 59° 50' 0 | 56° 30' 0 | 56° 22' 0 | | | | | | |
| | | 40 | 70 | 0 | 60 | Méridien magnétique. | | | | | 25 | 20 | 35 | 25 | | | | | | |
| | | 55 | 55 | 7 | 57 | | | | | | 50 | 12 | 30 | 47 | | | | | | |
| | | 55 | 75 | 2 | 60 | | | | | | 22 | 15 | 30 | 17 | | | | | | |
| | | 40 | 75 | 15 | 85 | | | | | | 10 | 45 | 45 | 17 | | | | | | |
| | | 30 | 80 | 15 | 75 | Face O. 184° 26'—78° 45' = 105° 41' | | | | | 45 | 47 | 45 | 20 | | | | | | |
| | | | | | | Face E. 105° 41'—180° = 74° 19' | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | 54° 45' 0 | 54° 40' 0 | 55° 0' 0 | 54° 35' 0 | Pointe élevée. SUP. | | | | | 59° 45' 0 | 59° 55' 0 | 55° 65' 0 | 55° 47' 0 | | | | | | |
| | | 75 | 40 | 5 | 50 | Mer... Un peu grosse. Roulis. Assez considérables. Tang** Faibles. Obs ^a . Médiocre. | | | | | 25 | 57 | 60 | 55 | | | | | | |
| | | 60 | 55 | 5 | 45 | | | | | | 32 | 40 | 50 | 45 | | | | | | |
| | | 35 | 35 | 0 | 55 | | | | | | 45 | 30 | 65 | 55 | | | | | | |
| | | 65 | 45 | 10 | 70 | | | | | | 25 | 40 | 65 | 50 | | | | | | |
| | | 35 | 37 | 10 | 7 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | 54° 5' 0 | 53° 75' 0 | 54° 60' 0 | 54° 62' 0 | | | | | | 59° 25' 0 | 59° 30' 0 | 55° 52' 0 | 55° 52' 0 | | | | | | |
| | | 25 | 62 | 45 | 40 | | | | | | 37 | 35 | 52 | 47 | | | | | | |
| | | 45 | 55 | 75 | 15 | | | | | | 30 | 50 | 55 | 55 | | | | | | |
| | | 0 | 67 | 60 | 55 | | | | | | 37 | 45 | 52 | 32 | | | | | | |
| | | 20 | 70 | 45 | 35 | | | | | | 37 | 32 | 67 | 45 | | | | | | |
| | | 45 | 82 | 35 | 70 | | | | | | 27 | 30 | 60 | 50 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Fb. | | | | | | | | | | R. | | | | | | | | | | |
| | | | | | | | | | | | 59° 55' 0 | 59° 52' 0 | 56° 15' 0 | 56° 15' 0 | | | | | | |
| | | | | | | | | | | | 65 | 52 | 20 | 25 | | | | | | |
| | | | | | | | | | | | 50 | 55 | 20 | 15 | | | | | | |
| | | | | | | | | | | | 50 | 50 | 15 | 20 | | | | | | |
| | | | | | | | | | | | 55 | 50 | 25 | 20 | | | | | | |
| | | | | | | | | | | | 60 | 52 | 25 | 20 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | 54° 15' 0 | 54° 0' 0 | 55° 0' 0 | 55° 10' 0 | | | | | | 59° 50' 0 | 59° 57' 0 | 56° 10' 0 | 56° 20' 0 | | | | | | |
| | | 0 | 0 | 15 | 15 | | | | | | 55 | 50 | 7 | 10 | | | | | | |
| | | 5 | 0 | 15 | 10 | | | | | | 52 | 40 | 17 | 30 | | | | | | |
| | | 15 | 5 | 10 | 15 | | | | | | 55 | 45 | 15 | 25 | | | | | | |
| | | 15 | 0 | 15 | 15 | | | | | | 50 | 52 | 15 | 15 | | | | | | |
| | | 0 | 0 | 15 | 10 | | | | | | 52 | 57 | 15 | 12 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | 54° 5' 0 | 54° 10' 0 | 55° 15' 0 | 55° 15' 0 | | | | | | 59° 35' 0 | 59° 37' 0 | 55° 25' 0 | 55° 45' 0 | | | | | | |
| | | 5 | 10 | 15 | 15 | | | | | | 30 | 42 | 32 | 55 | | | | | | |
| | | 5 | 10 | 15 | 15 | | | | | | 42 | 37 | 25 | 55 | | | | | | |
| | | 0 | 15 | 15 | 15 | | | | | | 40 | 27 | 30 | 55 | | | | | | |
| | | 15 | 10 | 15 | 15 | | | | | | 22 | 27 | 30 | 50 | | | | | | |
| | | 15 | 25 | 15 | 15 | | | | | | 35 | 32 | 30 | 65 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | 54° 30' 0 | 54° 35' 0 | 55° 15' 0 | 55° 15' 0 | | | | | | 59° 22' 0 | 59° 10' 0 | 55° 35' 0 | 55° 57' 0 | | | | | | |
| | | 30 | 30 | 10 | 15 | | | | | | 37 | 17 | 25 | 55 | | | | | | |
| | | 40 | 37 | 15 | 15 | | | | | | 10 | 22 | 37 | 55 | | | | | | |
| | | 40 | 35 | 15 | 10 | | | | | | 12 | 15 | 45 | 55 | | | | | | |
| | | 30 | 40 | 15 | 10 | | | | | | 27 | 15 | 47 | 50 | | | | | | |
| | | 35 | 40 | 15 | 15 | | | | | | 32 | 20 | 25 | 55 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | 54° 40' 0 | 54° 40' 0 | 55° 20' 0 | 55° 0' 0 | | | | | | | | | | | | | | | |
| | | 45 | 40 | 20 | 5 | | | | | | | | | | | | | | | |
| | | 30 | 30 | 20 | 5 | | | | | | | | | | | | | | | |
| | | 30 | 35 | 20 | 5 | | | | | | | | | | | | | | | |
| | | 30 | 40 | 20 | 0 | | | | | | | | | | | | | | | |
| | | 40 | 40 | 20 | 10 | | | | | | | | | | | | | | | |
| Moyennes. | Lm. | 54° 45' 0 | 54° 48' 7 | 55° 14' 20 | 55° 7' 30 | 54° 58' 44" | | | | | Moyennes. | Lm. | 59° 35' 15 | 59° 39' 20 | 56° 5' 45 | 56° 2' 15 | 57° 50' 39" | | | |
| | Fb. | 54° 21' 27 | 54° 21' 57 | 55° 15' 12 | 55° 11' 15 | 54° 47' 28 | { 54° 53' 6" | | | | | R. | 59° 41' 22 | 59° 33' 2 | 55° 54' 22 | 56° 6' 37 | 57° 50' 6 | { 57° 50' 22" | | |

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | OBSERVATEURS. DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | | | | | | | | |
|---------------|--|---------------------------------------|------------|-------------|----------|-------------------------|-----------|--------------------------------|------|------------------------------------|--------------------------------|---------------------------------------|-------------------------|--------------|-------------|----------|--------------------------------|----------|-----------|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | SANS CHANGER LES PÔLES. | | | | SANS CHANGER LES PÔLES. | | | | | | | SANS CHANGER LES PÔLES. | | | | | | | | | | | | | | | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | Face à l'O. | | Face à l'E. | | | | | Face à l'O. | | Face à l'E. | | | | | | | | | | | | | | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | | | | | | | | | | | | | | | | | | | | |
| Lm. | 1819. Juillet 20, de 10 ^h 30' matin à midi 15'. | Grands arcs. | N. attiré. | 60°15'0 | 60°10'0 | 60°55'0 | 60°40'0 | Points parallèles à la quille. | | | | | 59°45'0 | 59°37'0 | 60°10'0 | 60°15'0 | Points parallèles à la quille. | | | | | | | | | | | | | | | | | | |
| | | 40 | 20 | 30 | 57 | | | | | Division de gauche. | Division de droite. | | 45 | 32 | 10 | 35 | | | | | | | | | | | | | | | | | | | |
| | | 59 50 | 27 | 45 | 37 | | | | | | | | 45 | 40 | 15 | 47 | | | | | | | | | | | | | | | | | | | |
| | | 55 | 55 | 30 | 55 | | | | | | | | 30 | 22 | 15 | 45 | | | | | | | | | | | | | | | | | | | |
| | | 60 25 | 22 | 30 | 45 | | | | | | | | 7 | 32 | 20 | 37 | | | | | | | | | | | | | | | | | | | |
| | | 10 | 15 | 52 | 35 | | | | | 184° 26' | 175° 34' | | 20 | 25 | 15 | 40 | | | | | | | | | | | | | | | | | | | |
| | | 59 20 0 | 59 55 0 | 60 65 0 | 60 75 0 | | | | | | | | 59 27 0 | 59 20 0 | 60 37 0 | 60 25 0 | Points parallèles à la quille. | | | | | | | | | | | | | | | | | | |
| | | 30 | 37 | 70 | 52 | | | | | | | | 25 | 35 | 22 | 15 | | | | | | | | | | | | | | | | | | | |
| | | 60 | 80 | 52 | 50 | | | | | | | | 15 | 20 | 10 | 20 | | | | | | | | | | | | | | | | | | | |
| | | 25 | 82 | 60 | 37 | | | | | | | | 22 | 15 | 32 | 15 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 75 | 40 | 27 | | | | | | | | 14 | 30 | 22 | 15 | | | | | | | | | | | | | | | | | | | |
| | | 20 | 25 | 65 | 47 | | | | | | | | 25 | 10 | 15 | 47 | | | | | | | | | | | | | | | | | | | |
| | | 59 45 0 | 59 50 0 | 60 37 0 | 60 47 0 | | | | | | | | 59 15 0 | 58 47 0 | 60 45 0 | 60 17 0 | Cap. Est. | | | | | | | | | | | | | | | | | | |
| | | 60 | 80 | 55 | 52 | | | | | | | | 25 | 60 | 45 | 40 | | | | | | | | | | | | | | | | | | | |
| | | 40 | 75 | 70 | 45 | | | | | | | | 10 | 67 | 35 | 47 | | | | | | | | | | | | | | | | | | | |
| | | 40 | 65 | 60 | 37 | | | | | | | | 30 | 60 | 45 | 17 | | | | | | | | | | | | | | | | | | | |
| | | 42 | 70 | 40 | 27 | | | | | | | | 0 | 65 | 52 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 67 | 75 | 52 | 32 | | | | | | | | 15 | 55 | 32 | 22 | | | | | | | | | | | | | | | | | | | |
| | | 59 22 0 | 59 15 0 | 60 25 0 | 60 37 0 | | | | | | | | 58 45 0 | 58 67 0 | 60 40 0 | 60 30 0 | Mer... Assez belle. | | | | | | | | | | | | | | | | | | |
| | | 15 | 60 | 45 | 50 | | | | | | | | 40 | 45 | 40 | 40 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 65 | 45 | 45 | | | | | | | | 47 | 47 | 45 | 45 | | | | | | | | | | | | | | | | | | | |
| | | 30 | 15 | 32 | 37 | | | | | | | | 35 | 65 | 40 | 30 | | | | | | | | | | | | | | | | | | | |
| | | 10 | 0 | 37 | 35 | | | | | | | | 47 | 60 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| | | 55 | 45 | 30 | 45 | | | | | | | | 45 | 52 | 30 | 30 | | | | | | | | | | | | | | | | | | | |
| Db. | | Grands arcs. | N. attiré. | 59 45 0 | 59 45 0 | 61 20 0 | 61 0 0 | | | | | | Fb. | Grands arcs. | N. attiré. | 59 15 0 | 59 15 0 | 60 30 0 | 60 35 0 | | | | | | | | | | | | | | | | |
| | | 70 | 75 | 0 | 35 | | | | | | | | 20 | 20 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 90 | 45 | 0 | 15 | | | | | | | | 20 | 20 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 70 | 60 | 0 | 30 | | | | | | | | 15 | 25 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 75 | 45 | 0 | 0 | | | | | | | | 20 | 25 | 30 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 80 | 60 | 15 | 30 | | | | | | | | 15 | 15 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 59 55 0 | 59 60 0 | 60 55 0 | 61 45 0 | | | | | | | | 59 20 0 | 59 20 0 | 60 20 0 | 60 25 0 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 15 | 65 | 15 | | | | | | | | 25 | 15 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 30 | 30 | 80 | 30 | | | | | | | | 20 | 15 | 15 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 20 | 60 | 45 | 50 | | | | | | | | 25 | 20 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 20 | 60 | 80 | 35 | | | | | | | | 15 | 20 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 40 | 65 | 60 | 35 | | | | | | | | 25 | 20 | 20 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 59 45 0 | 59 40 0 | 60 50 0 | 60 90 0 | | | | | | | | 59 20 0 | 59 15 0 | 60 20 0 | 60 25 0 | | | | | | | | | | | | | | | | | | | |
| | | 30 | 55 | 90 | 70 | | | | | | | | 15 | 20 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 50 | 80 | 60 | | | | | | | | 2 | 2 | 20 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 30 | 45 | 95 | 50 | | | | | | | | 15 | 15 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 30 | 45 | 90 | 75 | | | | | | | | 20 | 15 | 20 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 30 | 40 | 60 | 90 | | | | | | | | 15 | 20 | 20 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 59 40 0 | 59 45 0 | 60 75 0 | 60 55 0 | | | | | | | | 59 15 0 | 59 15 0 | 60 20 0 | 60 25 0 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 25 | 65 | 85 | | | | | | | | 15 | 20 | 15 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 35 | 70 | 55 | | | | | | | | 15 | 15 | 25 | 20 | | | | | | | | | | | | | | | | | | | |
| | | 50 | 20 | 25 | 45 | | | | | | | | 15 | 15 | 20 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 15 | 25 | 75 | | | | | | | | 15 | 15 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| | | 30 | 30 | 60 | 50 | | | | | | | | 20 | 15 | 25 | 25 | | | | | | | | | | | | | | | | | | | |
| Moyennes. | Lm. | 59 46 5 | 60 1 35 | 60 46 45 | 60 43 35 | 60°19'30" | 60°23'47" | | | | | | Moyennes. | Lm. | 59 13 30 | 59 12 0 | 60 29 32 | 60 30 35 | 59°51'24" | | | | | | | | | | | | | | | | |
| | Db. | 59 40 2 | 59 44 22 | 61 5 12 | 61 16 40 | 60 28 4 | 60 23 8 | | | | | | | Fb. | 59 17 22 | 59 17 35 | 60 23 8 | 60 25 0 | 59 50 46 | 50° 51' 5" | | | | | | | | | | | | | | | |

| OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | |
|--|---|---|--|---|--|--|---|---|---|--|--|--|---|---------------------------------------|---|---|---|--|------------------------------------|-----------------------------------|---------------------------------------|---------------------------------------|---|--|
| | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS DÉFINITIFS et remarques. | SANS CHANGER LES PÔLES. | | | | OBSERVATEURS. et HEURES. | SANS CHANGER LES PÔLES. | | | | | | | | | | | | |
| | | INDICES. | | Face à l'O. | | | INDICES. | | Face à l'O. | | | Face à l'O. | | Face à l'E. | | | | | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | | Haut. | Bas. | Haut. | Bas. | | Haut. | Bas. | Haut. | Bas. | | | | | | | | | |
| Lm. 1819. Juillet 22, de 10° 30' matin à midi 20'. | 58° 82' 0 75 55 60 62 52 | 58° 85' 0 45 45 75 75 52 | 59° 60' 0 45 35 60 15 5 | 59° 75' 0 60 62 62 57 62 | Points parallèles à la quille. Division de gauche. Division de droite. 184° 26' 175° 34' | Lm. 1819. Juillet 23, de 10° 15' matin à midi 20'. | 59° 35' 0 17 25 42 30 15 | 59° 37' 0 15 10 45 27 40 | 59° 22' 0 42 40 15 27 22 | 59° 50' 0 40 30 15 15 7 | Points parallèles à la quille. Division de gauche. Division de droite. 184° 26' 175° 34' | Lm. 1819. Juillet 20, de 10° 30' matin à midi 20'. | 59° 37' 0 45 27 40 30 30 | 59 50 0 47 55 15 15 27 | 59 32 0 15 15 20 20 15 | 59 32 0 27 32 35 20 25 | Cap. E. 22° 30' S. — N. 112° 30' E. Méridien magnétique. Face O. 184° 26' — 112° 30' — 71° 56' Face E. 71° 56' — 180° — 108° 4' | Méridien magnétique. Pointe élevée. Sud. Mer... Belle. Roulis. Faibles, mais irréguliers. Tang** Faibles, mais irréguliers. Obs**. Bonne. | 59 10 0 10 7 5 10 5 | 59 15 0 7 15 5 0 7 | 59 15 0 10 20 15 30 30 | 59 30 0 32 25 37 30 35 | Face O. 184° 26' — 112° 30' — 71° 56' Face E. 71° 56' — 180° — 108° 4' | Pointe élevée. Sud. Mer... Belle. Roulis. Faibles. Tang** Faibles. Obs**. Bonne. |
| G. | 58 60 0 57 60 60 60 77 | 58 60 0 22 22 75 15 2 | 59 57 0 20 60 15 15 75 | 60 15 0 20 37 30 22 32 | Petits arcs. N. repoussé. N. attiré. | R. | 58 30 0 40 40 55 52 42 | 58 70 0 50 70 45 47 50 | 59 15 0 30 35 40 45 45 | 59 30 0 30 35 40 45 45 | Petits arcs. N. repoussé. N. attiré. | R. | 59 27 0 30 35 30 30 35 | 59 45 0 45 35 40 45 37 | 59 30 0 30 35 40 45 37 | 59 47 0 37 45 30 45 40 | Mer... Belle. Roulis. Faibles. Tang** Faibles. Obs**. Bonne. | | | | | | | |
| Moyennes. | Lm. G. | 58 55 0 72 65 65 45 45 | 58 60 0 87 50 55 65 70 | 59 17 0 30 35 22 20 32 | 59 37 0 40 20 30 25 32 | | 59 20 0 0 10 5 7 22 | 59 20 0 12 12 22 17 15 | 59 50 0 50 40 55 52 60 | 59 40 0 0 40 35 40 40 | 59 15 0 15 15 10 12 10 | 59 20 0 15 15 40 40 40 | | 59 45 0 15 15 20 20 20 | 59 30 0 15 37 12 15 10 | 59 52 0 37 30 45 55 35 | Mer... Belle. Roulis. Faibles. Tang** Faibles. Obs**. Bonne. | | | | | | | |
| | | 58 57 0 52 42 37 42 45 | 58 42 0 40 40 42 55 55 | 59 15 0 5 10 10 15 20 | 59 12 0 10 5 5 10 15 | | 58 40 0 57 57 57 40 45 | 59 17 0 20 17 30 10 7 | 59 50 0 50 40 55 52 49 | 59 20 0 0 40 35 40 49 | 59 15 0 15 15 20 20 10 | 59 20 0 15 15 20 20 10 | | 59 50 0 15 15 20 20 10 | 59 15 0 37 30 45 55 35 | Mer... Belle. Roulis. Faibles. Tang** Faibles. Obs**. Bonne. | | | | | | | | |
| | | 58 40 0 57 57 57 40 45 | 58 62 0 50 60 67 62 62 | 59 17 0 20 17 30 10 7 | 59 5 0 20 12 42 37 35 | | 59 0 0 5 12 0 7 7 | 58 45 0 40 42 42 37 35 | 58 30 0 30 40 45 45 40 | 58 45 0 0 40 42 37 35 | 58 45 0 15 15 20 20 10 | | 59 0 0 15 15 20 20 10 | 58 45 0 37 30 45 50 45 | Mer... Belle. Roulis. Faibles. Tang** Faibles. Obs**. Bonne. | | | | | | | | | |
| Moyennes. | Lm. G. | 58 52 27 58 55 48 | 58 57 37 58 58 53 | 60 3 42 60 17 55 | 60 16 52 50 14 38 | | 59° 32' 40" 59° 6 48" | 59° 19' 44" | | | | | | | | | 59° 20' 47" 59° 21' 34" | 59° 21' 11" | | | | | | |

CHAP. III. — INCLINAISON DE L'AIGUILLE AIMANTÉE.

153

| OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | |
|---------------|---------------------------------------|---------|-------------------------|----------|-------------|----------|--------------------------------|--|---------------------------------------|----------|-------------|----------|--------------------------------|--|--|--|--|--|
| | DATES et HEURES. | | SANS CHANGER LES PÔLES. | | | | DATES et HEURES. | | SANS CHANGER LES PÔLES. | | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | | | Face à l'O. | | Face à l'E. | | | | | | | |
| | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | | | | | | |
| Lm. | 1819. | Juillet | 53°40'0 | 52°70'0 | 50°85'0 | 51°30'0 | Points parallèles à la quille. | | 50°50'0 | 50°50'0 | 48°50'0 | 48°30'0 | Points parallèles à la quille. | | | | | |
| 31, | | | 40 | 90 | 40 | 20 | | | 30 | 10 | 52 | 22 | | | | | | |
| de | | | 7 | 80 | 90 | 2 | Division de gauche. | | 60 | 60 | 45 | 65 | | | | | | |
| 10°30' | | | 20 | 90 | 60 | 27 | Division de droite. | | 40 | 45 | 50 | 30 | | | | | | |
| à | | | 0 | 45 | 80 | 15 | | | 45 | 40 | 70 | 60 | | | | | | |
| 11°50' | | matin. | 0 | 90 | 45 | 25 | | | 45 | 75 | 57 | 60 | | | | | | |
| | | | 52 30 0 | 51 100 0 | 51 12 0 | 50 57 0 | | | 49 40 0 | 50 0 0 | 48 60 0 | 48 50 0 | | | | | | |
| | | | 32 | 65 | 70 | 75 | Cap. S. 22° 30' E. = | | 60 | 5 | 60 | 60 | | | | | | |
| | | | 17 | 45 | 40 | 90 | N. 157° 30' E. | | 40 | 5 | 50 | 40 | | | | | | |
| | | | 40 | 55 | 17 | 75 | Méridien magnétique. | | 50 | 0 | 70 | 55 | | | | | | |
| | | | 25 | 75 | 20 | 70 | | | 42 | 0 | 52 | 67 | | | | | | |
| | | | 35 | 80 | 40 | 80 | Face O. 184° 26'—157° 30' | | 47 | 22 | 50 | 40 | | | | | | |
| | | | 52 40 0 | 52 42 0 | 50 60 0 | 50 50 0 | Face E. 175° 34'—22° 30' | | 50 | 2 0 | 50 37 0 | 48 55 0 | Face O. 26° 56' | | | | | |
| | | | 55 | 35 | 40 | 60 | = 26° 56' | | 10 | 30 | 60 | 62 | Face E. 153° 4' | | | | | |
| | | | 75 | 30 | 42 | 65 | = 153° 4' | | 40 | 25 | 55 | 42 | Pointe élevée. Sud. | | | | | |
| | | | 70 | 50 | 37 | 60 | | | 5 | 55 | 75 | 57 | Mer... Creuse. | | | | | |
| | | | 40 | 55 | 35 | 60 | Pointe élevée. Sud. | | 15 | 15 | 40 | | Rouli... Forts. | | | | | |
| | | | 35 | 50 | 30 | 60 | Mer... Creuse. | | 35 | 30 | 57 | | Tang... Forts. | | | | | |
| | | | 52 30 0 | 52 30 0 | 50 30 0 | 50 30 0 | Obs... Passable. | | 49 52 0 | 49 40 0 | 48 30 0 | 48 25 0 | Ob... Médiocre. | | | | | |
| | | | 47 | 35 | 15 | 20 | | | 60 | 57 | 40 | 25 | | | | | | |
| | | | 55 | 40 | 5 | 10 | | | 35 | 47 | 25 | 25 | | | | | | |
| | | | 50 | 10 | 15 | 20 | | | 60 | 60 | 35 | 10 | | | | | | |
| | | | 40 | 45 | 25 | 25 | | | 39 | 62 | 30 | 15 | | | | | | |
| | | | 25 | 40 | 10 | 35 | | | 35 | 60 | 20 | 25 | | | | | | |
| Fb. | | | 52 55 0 | 52 50 0 | 51 45 0 | 51 60 0 | | | 50 12 0 | 50 32 0 | 48 12 0 | 48 30 0 | | | | | | |
| | | | 55 | 50 | 40 | 50 | | | 25 | 20 | 12 | 65 | | | | | | |
| | | | 55 | 55 | 30 | 50 | | | 15 | 12 | 7 | 55 | | | | | | |
| | | | 55 | 60 | 40 | 50 | | | 7 | 25 | 20 | 62 | | | | | | |
| | | | 50 | 50 | 45 | 55 | | | 5 | 37 | 5 | 60 | | | | | | |
| | | | 50 | 55 | 50 | 45 | | | 25 | 35 | 12 | 35 | | | | | | |
| | | | 52 60 0 | 52 55 0 | 51 30 0 | 51 25 0 | | | 49 57 0 | 48 97 0 | 48 25 0 | 48 45 0 | | | | | | |
| | | | 60 | 55 | 10 | 15 | | | 30 | 50 | 55 | 30 | | | | | | |
| | | | 52 | 60 | 2 | 30 | | | 80 | 105 | 30 | 45 | | | | | | |
| | | | 55 | 55 | 15 | 20 | | | 37 | 110 | 30 | 45 | | | | | | |
| | | | 50 | 50 | 10 | 15 | | | 55 | 90 | 25 | 40 | | | | | | |
| | | | 50 | 55 | 20 | 30 | | | 60 | 95 | 50 | 30 | | | | | | |
| | | | 52 55 0 | 52 45 0 | 51 0 0 | 51 10 0 | | | 50 30 0 | 50 37 0 | 47 50 0 | 48 5 0 | | | | | | |
| | | | 55 | 45 | 15 | 15 | | | 45 | 32 | 57 | 0 | | | | | | |
| | | | 55 | 55 | 10 | 10 | | | 30 | 30 | 85 | 22 | | | | | | |
| | | | 55 | 50 | 10 | 10 | | | 45 | 57 | 90 | 0 | | | | | | |
| | | | 45 | 50 | 10 | 25 | | | 25 | 45 | 82 | 0 | | | | | | |
| | | | 50 | 50 | 15 | 10 | | | 30 | 45 | 105 | 15 | | | | | | |
| | | | 52 50 0 | 52 40 0 | 51 0 0 | 51 10 0 | | | 49 40 0 | 49 45 0 | 47 80 0 | 48 7 0 | | | | | | |
| | | | 40 | 50 | 10 | 15 | | | 35 | 40 | 65 | 20 | | | | | | |
| | | | 45 | 55 | 10 | 15 | | | 30 | 45 | 100 | 5 | | | | | | |
| | | | 40 | 45 | 0 | 20 | | | 60 | 47 | 80 | 5 | | | | | | |
| | | | 40 | 40 | 0 | 15 | | | 30 | 30 | 55 | 27 | | | | | | |
| | | | 55 | 55 | 10 | 15 | | | 30 | 55 | 52 | 15 | | | | | | |
| Moyennes. | Lm. | | 52 50 20 | 52 41 7 | 50 54 17 | 50 59 12 | 51°51'16" | | 50 9 2 | 50 19 35 | 48 49 30 | 48 43 20 | 49°30'22" | | | | | |
| | Fb. | | 52 51 20 | 52 51 15 | 51 17 47 | 51 25 38 | 52 6 30 | | 50 4 55 | 50 5 40 | 48 19 20 | 48 27 37 | 49 14 23 | | | | | |

VOYAGE AUTOUR DU MONDE.

| OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | |
|---|--|--|-------------------------|-----------|-------------|------------|--------------------------------|-----------|--|---------|--|-----------|-----------|-------------|-----------|--------------------------------|--|--|
| | DATES et HEURES. | | SANS CHANGER LES PÔLES. | | | | DATES et HEURES. | | SANS CHANGER LES PÔLES. | | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | | | Face à l'O. | | Face à l'E. | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | | |
| TRAVERSÉE DES MARIANNE AUX ILES SANDWICH. | | | | | | | | | | | | | | | | | | |
| Lm. | 1819. | Août, à 10 ^h et fini à 11 ^h 45, matin. | 47° 07' 0 | 48° 52' 0 | 45° 45' 0 | 46° 40' 0 | Points parallèles à la quille. | | Lm. | 1819. | Août, à 10 ^h 40, matin. | 44° 70' 0 | 44° 70' 0 | 44° 90' 0 | 45° 30' 0 | Points parallèles à la quille. | | |
| | | | 40 | 30 | 60 | 30 | | | | | 60 | 87 | 75 | 45 | | | | |
| | | | 45 | 30 | 70 | 20 | Division de gauche. | | | | 40 | 52 | 40 | 20 | | | | |
| | | | 30 | 12 | 90 | 20 | Division de droite. | | | | 50 | 70 | 50 | 32 | | | | |
| | | | 82 | 20 | 65 | 45 | | | | | 85 | 85 | 90 | 27 | | | | |
| | | | 60 | 45 | 50 | 20 | | | | | 45 | 65 | 52 | 32 | | | | |
| | | | | | | | 184° 26' | | | | | | | | | | | |
| | | | | | | | 175° 34' | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| R. | | | | | | | | | B. | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Moyennes. | Lm. | 48 0 15 | 48 9 52 | 46 4 35 | 46 12 22 | 47° 6' 46" | | Moyennes. | Lm. | 45 5 42 | 44 58 52 | 44 28 57 | 44 35 50 | 44° 47' 21" | | | | |
| | R. | 47 58 55 | 47 57 58 | 45 50 22 | 45 42 25 | 46 52 24 | | | B. | 45 7 10 | 45 5 35 | 44 39 20 | 44 29 20 | 44 50 21 | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

| OBSERVATEURS. DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | OBSERVATEURS. DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | | | | | | | | | | | |
|--|---|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------|--|---------------------------------------|---|---|--|---------------------------------------|---------------------------------------|--|--|---------------------------------------|--|--|---------------------------------------|--|--|---------------------------------|---------------------------------|----------------------------------|---------------------|---|---|--|--|
| | SANS CHANGER LES PÔLES. | | | | RÉSULTATS | | | | | SANS CHANGER LES PÔLES. | | | | RÉSULTATS | | | | | | | | | | | | | | |
| | INDICES. | | DÉFINITIFS | | INDICES. | | DÉFINITIFS | | | INDICES. | | DÉFINITIFS | | et remarques. | | | | | | | | | | | | | | |
| | Face à l'O. | Face à l'E. | Haut. | Bas. | Face à l'O. | Face à l'E. | Haut. | Bas. | | Face à l'O. | Face à l'E. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | | | | | |
| m. 1819 Août, 5, de 10 ³⁰ à midi. | 40°15'0 5 72 70 5 40 | 41°15'0 15 30 30 12 30 | 41°5'0 2 7 7 15 15 | 41°30'0 25 35 40 25 47 | Points parallèles à la quille. | Lm. 1810. Août, 6, de 10 ³⁰ à midi. | 42°37'0 22 32 22 40 30 | 41°90'0 97 112 110 85 50 | 42°20'0 15 22 20 10 27 | 42°35'0 15 15 35 5 17 | Points parallèles à la quille. | 42 77 0 65 55 70 80 50 | 42 95 0 50 100 85 45 30 | 41 30 0 41 45 40 45 30 | 41 60 0 55 37 57 37 40 | Division de gauche. | Division de droite. | 184° 26' 175° 34' | 184° 26' 175° 34' | | | | | | | | | |
| b. | 40 60 0 60 55 22 17 30 47 | 40 15 0 35 22 32 30 65 | 41 32 0 7 22 7 40 40 | 41 22 0 25 25 22 30 25 | Grands arcs. | 40 20 0 35 20 20 5 15 | 40 45 0 35 45 65 45 67 | 40 60 0 70 70 30 65 15 | 41 10 0 15 10 15 0 15 | 41 10 0 10 25 30 30 30 | 41 15 0 15 0 0 0 10 | 40 85 0 100 90 85 25 | 40 105 107 82 57 97 | Cap. O. 33° 45' S. = N. 123° 45' O. | Méridien magnétique. | Face O. 175° 34'—123° 45' = 51° 40' Face E. 51° 49'—180° = 128° 11' | Face O. 175° 34'—45° = 130° 34' Face E. 130° 34'—180° = 49° 26' | Grands arcs. | Grands arcs. | 42 40 0 30 70 60 30 | 42 92 0 45 47 25 40 | 40 30 0 97 82 50 95 | 40 55 0 105 85 85 70 | Pointe élevée. Sud. | Mer... Moutonneuse. Roulis. Forts et irréguliers. Tang ^{as} . Faibles. Obe ^{as} . Assez bonne. | Mer... Moutonneuse. Roulis. Peu forts et irréguliers. Tang ^{as} . Faibles. Obe ^{as} . Très-médiocre. | (a) Cap. N. 56° 15' O. Face O. 175° 34'—56° 15' = 119° 19' | (b) Cap. N. 56° 15' O. Face E. 119° 19'—180° = 60° 41' |
| G. | 41 0 0 0 10 10 0 0 | 41 10 0 0 0 0 0 10 | 41 15 0 30 25 30 30 30 | 41 15 0 15 15 15 0 20 | Grands arcs. | 41 5 0 0 5 0 0 5 | 41 10 0 10 0 15 5 5 | 41 15 0 0 0 10 15 15 | 41 10 0 10 10 15 15 20 | 41 15 0 0 0 10 15 10 | 41 15 0 15 10 10 10 20 | 41 10 0 0 0 0 0 0 | 41 15 0 0 0 0 0 0 | Pendant les séries face à l'E. la mer était moins agitée ; il faut donc compter davantage sur cette partie de l'expérience. | 43 40 a 20 20 0 15 10 | 43 15 0 20 30 30 22 15 | 41 45 0 30 20 30 50 30 | 41 27 0 55 40 80 45 30 | (a) Cap. N. 56° 15' O. Face O. 175° 34'—56° 15' = 119° 19' | (b) Cap. N. 56° 15' O. Face E. 119° 19'—180° = 60° 41' | | | | | | | | |
| Moyennes. | Lm. 40 31 55 Fb. 41 4 10 | 40 53 41 2 17 | 7 41 10 47 41 13 45 | 41 24 37 41 10 0 | 41° 0' 7" 41° 3' 50" | 41° 7 33 | 41 30 0 43 19 45 | 42 54 47 41 30 42 | 41 30 52 41 33 35 | 41 40 47 42 28 31 | 41° 13' 51" 42° 21' 11" | Moyennes. | Lm. G. 42 48 55 43 30 0 | 42 54 47 43 19 45 | 41 30 52 41 33 35 | 41 40 47 42 28 31 | | | | | | | | | | | | |

| OBSERVATEUR. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | |
|---------------|---|-------------------------|----------|--------------|------------|--|-------------------------|------------|--|------------|--------------------------------|-------------------------|----------|--------------|------------|---|--|------------|--|
| | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS DÉFINITIFS et remarques. | SANS CHANGER LES PÔLES. | | | | OBSERVATEUR. et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS DÉFINITIFS et remarques. | | | |
| | | INDICES. | | Face à l'O. | | | Face à l'E. | | INDICES. | | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | | Haut. | Bas. | Haut. | Bas. | | Haut. | Bas. | Haut. | Bas. | | | | |
| Lm. | 1819. Sept. 5. de 10°15' à 11°35' matin. | 39°32' 0 | 39°42' 0 | 39°25' 0 | 39°25' 0 | Points parallèles à la quille. | 35°67' 0 | 35°35' 0 | 36°55' 0 | 36°17' 0 | Points parallèles à la quille. | 35°67' 0 | 35°35' 0 | 36°55' 0 | 36°17' 0 | | | | |
| | | 75 | 75 | 20 | 30 | | 52 | 20 | 60 | 60 | | | | | | | | | |
| | | 85 | 80 | 30 | 30 | Division de gauche. | 57 | 70 | 35 | 55 | Division de droite. | 105 | 45 | 50 | 57 | | | | |
| | | 77 | 35 | 17 | 25 | | 90 | 67 | 45 | 55 | | 90 | 67 | 45 | 55 | | | | |
| | | 27 | 0 | 32 | 25 | | 77 | 52 | 32 | 22 | | 184° 26' | 175° 34' | 184° 26' | 175° 34' | | | | |
| | | 2 | 2 | 17 | 30 | | | | | | | | | | | | | | |
| | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | | | |
| | | 38 37 0 | 38 37 0 | 38 75 0 | 38 72 0 | | 35 42 0 | 35 72 0 | 36 52 0 | 36 60 0 | | 35 42 0 | 35 72 0 | 36 52 0 | 36 60 0 | | | | |
| | | 35 | 47 | 72 | 65 | Cap. S. 45° E.—N. 135° E. | 40 | 80 | 45 | 60 | | 40 | 80 | 45 | 60 | Cap. S. 22° 30' E. | | | |
| | | 45 | 45 | 57 | 72 | Méridien magnétique. | 55 | 52 | 52 | 47 | | 55 | 80 | 40 | 45 | Méridien magnétique. | | | |
| | | 30 | 30 | 57 | 62 | | 55 | 80 | 40 | 45 | | 55 | 85 | 60 | 45 | Face O. 184° 26'—135°—49° 20'. | | | |
| | | 40 | 42 | 72 | 57 | | | | | | | | | | | Face O. 153° 4'—180°—26° 56'. | | | |
| | | 30 | 37 | 55 | 67 | | | | | | | | | | | Face E. 175° 34'—22° 30'—=153° 4'. | | | |
| | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | | | |
| | | 38 42 0 | 38 45 0 | 38 55 0 | 38 62 0 | Face E. 49° 26'—180°—130° 34'. | 30 12 0 | 35 60 0 | 36 60 0 | 36 80 0 | | 30 12 0 | 35 60 0 | 36 60 0 | 36 80 0 | | | | |
| | | 42 | 47 | 67 | 50 | Pointe élevée. Sud. | 12 | 77 | 45 | 65 | | 7 | 82 | 60 | 55 | Pointe élevée. Sud. | | | |
| | | 35 | 35 | 57 | 62 | | 0 | 45 | 55 | 30 | | 0 | 45 | 60 | 82 | Mer... Un peu grosse. Roulez. Faibles. Tang". Faibles. Obs... Passable. | | | |
| | | 45 | 45 | 57 | 57 | | 22 | 50 | 60 | 82 | | 17 | 45 | 42 | 57 | Roulez. Faibles. Tang". Assez forts. Obs... Médiocre. | | | |
| | | 47 | 50 | 62 | 62 | | | | | | | | | | | (a) Pendant la deuxième partie de ces observations, face à l'E., le cap du vaisseau était au Sud; le méridien magnétique, face à l'E., était donc à 175° 34'. | | | |
| | | 42 | 45 | 55 | 52 | | | | | | | | | | | | | | |
| | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | | | |
| | | 38 60 0 | 38 65 0 | 39 12 0 | 39 25 0 | | 36 20 0 | 36 2 0 | 36 65 0 | 36 37 0 | | 36 20 0 | 36 2 0 | 36 65 0 | 36 37 0 | | | | |
| | | 60 | 45 | 15 | 27 | | 35 | 7 | 72 | 27 | | 15 | 0 | 60 | 60 | | | | |
| | | 50 | 60 | 15 | 27 | | 15 | 0 | 60 | 60 | | 7 | 5 | 47 | 30 | | | | |
| | | 60 | 47 | 15 | 25 | | 2 | 27 | 45 | 30 | | 2 | 27 | 45 | 30 | | | | |
| | | 45 | 60 | 15 | 25 | | 0 | 40 | 55 | 65 | | 0 | 40 | 55 | 65 | | | | |
| | | 52 | 50 | 7 | 25 | | | | | | | | | | | | | | |
| Db. | | Petits arcs. | | N. repoussé. | N. attiré. | | Petits arcs. | | N. repoussé. | N. attiré. | | Petits arcs. | | N. repoussé. | N. attiré. | | | | |
| | | 38 45 0 | 38 45 0 | 39 35 0 | 39 10 0 | | 36 0 0 | 36 15 0 | 36 55 a | 36 30 0 | | 36 0 0 | 36 15 0 | 36 55 a | 36 30 0 | | | | |
| | | 50 | 35 | 25 | 15 | | 0 | 0 | 32 | 30 | | 0 | 0 | 30 | 30 | | | | |
| | | 55 | 50 | 35 | 20 | | 0 | 0 | 30 | 30 | | 15 | 15 | 30 | 57 | | | | |
| | | 50 | 50 | 0 | 35 | | 0 | 22 | 37 | 30 | | 0 | 22 | 37 | 30 | | | | |
| | | 50 | 40 | 35 | 20 | | 0 | 0 | 50 | 50 | | 0 | 0 | 50 | 50 | | | | |
| | | 65 | 40 | 0 | 35 | | | | | | | | | | | | | | |
| | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | | | |
| | | 38 60 0 | 38 50 0 | 39 25 0 | 39 35 0 | | 35 60 0 | 35 45 0 | 36 25 0 | 36 30 0 | | 35 60 0 | 35 45 0 | 36 25 0 | 36 30 0 | | | | |
| | | 65 | 35 | 40 | 35 | | 15 | 97 | 75 | 50 | | 0 | 60 | 65 | 30 | | | | |
| | | 65 | 50 | 20 | 25 | | 62 | 90 | 0 | 20 | | 30 | 65 | 72 | 22 | | | | |
| | | 50 | 45 | 15 | 30 | | 30 | 65 | 72 | 22 | | 60 | 67 | 70 | 20 | | | | |
| | | 60 | 35 | 30 | 30 | | 60 | 67 | 70 | 20 | | | | | | | | | |
| | | 65 | 45 | 20 | 35 | | | | | | | | | | | | | | |
| | | P. | | | | | | | | | | | | | | | | | |
| | | Petits arcs. | | N. repoussé. | N. attiré. | | Petits arcs. | | N. repoussé. | N. attiré. | | Petits arcs. | | N. repoussé. | N. attiré. | | | | |
| | | 38 65 0 | 38 50 0 | 39 20 0 | 39 15 0 | | 35 75 0 | 36 30 0 | 36 10 0 | 36 5 0 | | 35 75 0 | 36 30 0 | 36 10 0 | 36 5 0 | | | | |
| | | 65 | 45 | 25 | 15 | | 90 | 35 | 10 | 10 | | 45 | 20 | 0 | 15 | | | | |
| | | 55 | 40 | 15 | 15 | | 52 | 37 | 2 | 0 | | 75 | 25 | 0 | 0 | | | | |
| | | 60 | 40 | 20 | 30 | | 75 | 25 | 0 | 0 | | 90 | 22 | 5 | 7 | | | | |
| | | 60 | 55 | 2 | 30 | | | | | | | | | | | | | | |
| | | 50 | 45 | 15 | 25 | | | | | | | | | | | | | | |
| | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | Grands arcs. | | N. repoussé. | N. attiré. | | | | |
| | | 38 45 0 | 38 50 0 | 39 15 0 | 39 40 0 | | 35 65 0 | 35 102 0 | 36 0 0 | 35 50 0 | | 35 65 0 | 35 102 0 | 36 0 0 | 35 50 0 | | | | |
| | | 35 | 60 | 15 | 30 | | 90 | 105 | 15 | 52 | | 75 | 67 | 20 | 80 | | | | |
| | | 45 | 60 | 20 | 25 | | 57 | 95 | 0 | 50 | | 55 | 52 | 20 | 60 | | | | |
| | | 50 | 60 | 15 | 20 | | 55 | 52 | 20 | 60 | | 55 | 115 | 15 | 75 | | | | |
| | | 45 | 60 | 15 | 30 | | | | | | | | | | | | | | |
| | | 45 | 40 | 15 | 40 | | | | | | | | | | | | | | |
| Mo yennes. | Lm. | 39 0 37 | 38 59 25 | 39 10 2 | 39 14 7 | 39° 6' 3" | 39 4 23 | 39° 5' 13" | | | | Moyennes. | Lm. | 36 7 15 | 36 3 15 | 36 51 57 | 36 49 50 | 36° 28' 4" | |
| | Db. | 38 54 10 | 38 46 52 | 39 9 50 | 39 26 40 | | | | | | | P. | 35 59 25 | 36 19 12 | 36 26 30 | 36 18 27 | 36° 21' 50" | | |

| OBSERVATEUR. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | |
|--|--|---|-------------------------|----------|-------------|---|--------------------------------|-----------|--|--|-------------|----------|----------|-----------|--------------------------------|-----------|--|--|
| | DATES | | SANS CHANGER LES PÔLES. | | | | DATES | | SANS CHANGER LES PÔLES. | | | | | | | | | |
| | et HEURES. | INDICES. | Face à l'O. | | Face à l'E. | | et HEURES. | INDICES. | Face à l'O. | | Face à l'E. | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | | | | | | |
| TRAVERSÉE DES ILES SANDWICH AU PORT-JACKSON. | | | | | | | | | | | | | | | | | | |
| Lm. | 1819. | Sept. 7, de 10 ^h 5' à 11 ^h 40' matin. | 34°52'0 | 34°15'0 | 34°22'0 | 34° 5'0 | Points parallèles à la quille. | Lm. | 1819. | Sept. 9, de 10 ^h 25' à 11 ^h 12' matin. | 29°97'0 | 29°47'0 | 29°47'0 | 29°35'0 | Points parallèles à la quille. | | | |
| | | 22 | 30 | 20 | 35 | | | | 92 | 30 | 30 | 10 | | | | | | |
| | | 0 | 0 | 25 | 37 | | | | 60 | 37 | 5 | 25 | | | | | | |
| | | 2 | 2 | 37 | 10 | | | | 47 | 25 | 7 | 60 | | | | | | |
| | | 47 | 7 | 32 | 20 | | | | 60 | 25 | 17 | 15 | | | | | | |
| | | 20 | 45 | 37 | 40 | | | | 45 | 40 | 22 | 37 | | | | | | |
| | | 34 15 0 | 34 55 0 | 34 45 0 | 34 50 0 | Grands arcs. | | | 29 40 0 | 29 70 0 | 29 60 0 | 29 47 0 | | | | | | |
| | | 17 | 45 | 37 | 82 | N. repoussé. | | | 5 | 10 | 47 | 67 | | | | | | |
| | | 60 | 67 | 45 | 72 | N. attiré. | | | 55 | 65 | 40 | 42 | | | | | | |
| | | 70 | 60 | 20 | 90 | | | | 42 | 45 | 60 | 27 | | | | | | |
| | | 55 | 37 | 65 | 75 | | | | 55 | 45 | 40 | 67 | | | | | | |
| | | 65 | 75 | 60 | 105 | Méridien magnétique. | | | 5 | 42 | 40 | 32 | | | | | | |
| | | 34 22 0 | 34 52 0 | 34 30 0 | 34 65 0 | Face O. 184°26'—146°15' = 38° 11' | | | 28 82 0 | 28 75 0 | 20 0 0 | 29 40 0 | | | | | | |
| | | 25 | 62 | 35 | 90 | Face E. 38° 11' — 180° = 141° 49' | | | 77 | 50 | 47 | 27 | | | | | | |
| | | 22 | 57 | 55 | 75 | Pointe élevée. Sud. | | | 105 | 65 | 47 | 40 | | | | | | |
| | | 40 | 60 | 35 | 115 | Mer... Un peu creuse. Roulis. Faibles. | | | 55 | 52 | 50 | 40 | | | | | | |
| | | 45 | 57 | 85 | 115 | Tang*. Fort inégal. Obe**. Passable. | | | 70 | 67 | 47 | 27 | | | | | | |
| | | 47 | 45 | 75 | 57 | | | | 45 | 80 | 65 | 25 | | | | | | |
| | | 33 75 0 | 33 82 0 | 34 85 0 | 34 25 0 | Petits arcs. | | | 29 35 0 | 29 37 0 | 29 60 0 | 29 37 0 | | | | | | |
| | | 85 | 77 | 75 | 45 | N. repoussé. | | | 55 | 82 | 35 | 52 | | | | | | |
| | | 85 | 57 | 57 | 30 | N. attiré. | | | 35 | 60 | 42 | 22 | | | | | | |
| | | 57 | 57 | 60 | 35 | | | | 52 | 52 | 45 | 25 | | | | | | |
| | | 75 | 30 | 75 | 65 | | | | 52 | 72 | 22 | 32 | | | | | | |
| | | 75 | 82 | 70 | 75 | | | | 30 | 52 | 57 | 20 | | | | | | |
| R. | | 34 0 0 | 34 25 0 | 34 45 0 | 34 40 0 | Grands arcs. | | | 30 30 0 | 29 25 0 | 29 45 0 | 29 55 0 | | | | | | |
| | | 15 | 5 | 45 | 40 | N. repoussé. | | | 45 | 30 | 15 | 15 | | | | | | |
| | | 0 | 10 | 45 | 50 | N. attiré. | | | 20 | 55 | 45 | 45 | | | | | | |
| | | 15 | 20 | 45 | 60 | | | | 30 | 20 | 30 | 10 | | | | | | |
| | | 20 | 10 | 50 | 60 | | | | 5 | 20 | 45 | 15 | | | | | | |
| | | 25 | 10 | 50 | 55 | | | | 25 | 50 | 30 | 30 | | | | | | |
| | | 34 25 0 | 34 25 0 | 34 45 0 | 34 45 0 | Petits arcs. | | | 30 20 0 | 29 35 0 | 29 45 0 | 29 45 0 | | | | | | |
| | | 20 | 15 | 45 | 45 | N. repoussé. | | | 28 35 | 15 | 25 | 60 | | | | | | |
| | | 30 | 5 | 35 | 47 | N. attiré. | | | 20 | 45 | 60 | 60 | | | | | | |
| | | 15 | 5 | 45 | 75 | | | | 29 50 | 20 | 45 | 40 | | | | | | |
| | | 10 | 25 | 45 | 45 | | | | 29 0 | 50 | 30 | 60 | | | | | | |
| | | 5 | 0 | 50 | 60 | | | | 30 30 | 35 | 40 | 55 | | | | | | |
| | | 33 55 0 | 33 70 0 | 34 50 0 | 34 45 0 | Grands arcs. | | | 29 60 0 | 29 20 0 | 29 60 0 | 29 15 0 | | | | | | |
| | | 55 | 65 | 55 | 40 | N. repoussé. | | | 55 | 20 | 10 | 15 | | | | | | |
| | | 60 | 55 | 45 | 45 | N. attiré. | | | 75 | 45 | 30 | 30 | | | | | | |
| | | 65 | 65 | 45 | 45 | | | | 45 | 30 | 30 | 0 | | | | | | |
| | | 65 | 65 | 55 | 45 | | | | 20 | 30 | 70 | 30 | | | | | | |
| | | 55 | 65 | 50 | 30 | | | | 60 | 15 | 60 | 45 | | | | | | |
| | | 33 75 0 | 34 25 0 | 34 60 0 | 34 65 0 | Petits arcs. | | | 29 60 0 | 29 60 0 | 29 60 0 | 29 50 0 | | | | | | |
| | | 60 | 10 | 55 | 55 | N. repoussé. | | | 50 | 30 | 45 | 28 45 | | | | | | |
| | | 70 | 20 | 60 | 70 | N. attiré. | | | 00 | 30 | 30 | 30 0 | | | | | | |
| | | 70 | 20 | 60 | 60 | | | | 45 | 40 | 30 | 30 20 | | | | | | |
| | | 75 | 15 | 55 | 60 | | | | 15 | 50 | 45 | 29 35 | | | | | | |
| | | 55 | 10 | 55 | 45 | | | | 25 | 35 | 35 | 29 20 | | | | | | |
| Moyennes. | Lm. | 34 29 55 | 34 33 10 | 34 49 15 | 34 58 52 | 34°42'48" | { | 34°36'36" | Lm. | 29 39 0 | 29 36 2 | 29 38 50 | 29 35 27 | 29°37'20" | { | 29°38'56" | | |
| | R. | 34 9 10 | 34 11 40 | 34 49 35 | 34 51 8 | 34 30 23 | } | | G. | 29 54 35 | 29 32 30 | 29 39 22 | 29 35 38 | 29 40 31 | | | | |

| OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | |
|---|---------------------------------------|----------|-------------------------|----------|-------------|------------------------------------|---------------------|---|---------------------------------------|---------|-------------|--------------|----------|--------------------------------------|---------------------|--|--|--|
| | DATES et HEURES. | | SANS CHANGER LES PÔLES. | | | | | | SANS CHANGER LES PÔLES. | | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | | | Face à l'O. | | Face à l'E. | | | | | | | |
| | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | | | | | | |
| TRAVERSÉE DES ILES SANDWICH AU PORT-JACKSON. | | | | | | | | | | | | | | | | | | |
| Lm. 1819. Sept. 13, de 10 ^h 25' à midi et 1/2. | Grands arcs. | 28°10'0 | 28°20'0 | 29°22'0 | 29°30'0 | Points parallèles à la quille. | | Lm. 1819. Sept. 15, de 10 ^h 15' à 11 ^h 45' matin. | Grands arcs. | 26°12'0 | 26°12'0 | 26°27'0 | 26°52'0 | Points parallèles à la quille. | | | | |
| | N. repoussé. | 22 | 55 | 37 | 32 | Division de gauche. | Division de droite. | | N. repoussé. | 10 | 40 | 55 | 54 | Division de gauche. | Division de droite. | | | |
| | N. attiré. | 12 | 17 | 5 | 32 | | | | | 25 | 7 | 33 | 20 | | | | | |
| | | 10 | 37 | 40 | 30 | | | | | 50 | 35 | 40 | 25 | | | | | |
| | | 15 | 55 | 0 | 40 | | | | | 15 | 15 | 22 | 60 | | | | | |
| | | 25 | 52 | 27 | 45 | 184° 26' | 175° 34' | | | 15 | 35 | 55 | 17 | | | | | |
| | Petits arcs. | 28 0 0 | 28 65 0 | 29 15 0 | 28 45 0 | Cap. N. 22° 30' E. | | | N. repoussé. | 25 57 0 | 25 60 0 | 26 45 0 | 26 62 0 | Cap.... Est. | | | | |
| | N. repoussé. | 15 | 60 | 5 | 52 | Méridien magnétique. | | | N. attiré. | 65 | 75 | 50 | 25 | Méridien magnétique. | | | | |
| | N. attiré. | 15 | 60 | 5 | 50 | | | | | 75 | 57 | 52 | 57 | | | | | |
| | | 47 | 45 | 10 | 67 | | | | | 90 | 102 | 35 | 37 | | | | | |
| | | 55 | 25 | 5 | 82 | Face O. 184° 26'—22° 30'= 161° 56' | | | | 60 | 80 | 35 | 40 | | | | | |
| | | 15 | 57 | 27 | 65 | Face E. 161° 56'—180°= 18° 4' | | | | 55 | 97 | 32 | 20 | | | | | |
| | Petits arcs. | 28 25 0 | 28 50 0 | 28 75 0 | 28 85 0 | Pointe élevée. Sud. | | | N. repoussé. | 25 60 0 | 25 75 0 | 26 57 0 | 26 52 0 | Pointe élevée. Sud. | | | | |
| | N. repoussé. | 7 | 22 | 52 | 52 | Mer... Assez belle. | | | N. attiré. | 57 | 75 | 65 | 45 | Mer... Assez belle. | | | | |
| | N. attiré. | 5 | 30 | 70 | 107 | Roulis. Faibles, mais irréguliers. | | | | 80 | 45 | 40 | 70 | Roulis. Un peu forts et irréguliers. | | | | |
| | | 37 | 42 | 55 | 62 | Tang** Faibles, mais irréguliers. | | | | 57 | 82 | 60 | 85 | Tang** Faibles. | | | | |
| | | 52 | 37 | 70 | 75 | Obe**. Passable. | | | | 60 | 55 | 55 | 55 | Obe**. Passable. | | | | |
| | | 45 | 50 | 65 | 72 | | | | | 50 | 72 | 45 | 75 | | | | | |
| B. | Grands arcs. | 28 42 0 | 28 35 0 | 28 57 0 | 29 10 0 | | | | Petits arcs. | 25 22 0 | 25 45 0 | 26 45 0 | 26 62 0 | | | | | |
| | N. repoussé. | 35 | 32 | 85 | 30 | | | | N. repoussé. | 30 | 57 | 47 | 27 | | | | | |
| | N. attiré. | 55 | 35 | 50 | 5 | | | | N. attiré. | 52 | 60 | 55 | 80 | | | | | |
| | | 25 | 35 | 55 | 47 | | | | | 55 | 60 | 60 | 57 | | | | | |
| | | 45 | 45 | 75 | 17 | | | | | 57 | 52 | 35 | 72 | | | | | |
| | | 55 | 20 | 70 | 45 | | | | | 20 | 62 | 12 | 50 | | | | | |
| Fr. | Grands arcs. | 28 45 0 | 28 45 0 | 29 45 0 | 29 60 0 | | | | | 25 75 0 | 25 52 0 | 27 20 0 | 26 100 0 | | | | | |
| | N. repoussé. | 42 | 45 | 22 | 60 | | | | | 75 | 105 | 35 | 60 | | | | | |
| | N. attiré. | 15 | 45 | 22 | 60 | | | | | 90 | 60 | 30 | 45 | | | | | |
| | | 45 | 30 | 30 | 37 | | | | | 52 | 75 | 25 | 85 | | | | | |
| | | 45 | 22 | 35 | 60 | | | | | 67 | 52 | 0 | 65 | | | | | |
| | | 30 | 22 | 37 | 45 | | | | | 67 | 60 | 2 | 85 | | | | | |
| | Petits arcs. | 28 15 0 | 28 30 0 | 29 15 0 | 29 37 0 | | | | | 26 7 0 | 26 15 0 | 26 75 0 | 26 55 0 | | | | | |
| | N. repoussé. | 15 | 30 | 20 | 30 | | | | | 0 | 0 | 60 | 60 | | | | | |
| | N. attiré. | 22 | 30 | 30 | 30 | | | | | 7 | 22 | 55 | 70 | | | | | |
| | | 30 | 37 | 12 | 37 | | | | | 0 | 7 | 60 | 55 | | | | | |
| | | 22 | 30 | 22 | 15 | | | | | 0 | 0 | 55 | 70 | | | | | |
| | | 30 | 22 | 15 | 30 | | | | | 0 | 22 | 60 | 60 | | | | | |
| | Petits arcs. | 28 45 0 | 28 52 0 | 29 30 0 | 29 22 0 | | | | | 25 45 0 | 25 60 0 | 26 55 0 | 26 75 0 | | | | | |
| | N. repoussé. | 30 | 30 | 30 | 20 | | | | | 75 | 45 | 60 | 75 | | | | | |
| | N. attiré. | 30 | 45 | 30 | 15 | | | | | 75 | 45 | 45 | 60 | | | | | |
| | | 22 | 30 | 30 | 15 | | | | | 45 | 60 | 45 | 55 | | | | | |
| | | 35 | 30 | 30 | 20 | | | | | 80 | 75 | 55 | 80 | | | | | |
| | | 15 | 30 | 30 | 15 | | | | | 75 | 60 | 45 | 60 | | | | | |
| | Petits arcs. | 28 35 0 | 28 60 0 | 29 30 0 | 29 30 0 | | | | | 25 30 0 | 25 45 0 | 26 40 0 | 26 60 0 | | | | | |
| | N. repoussé. | 50 | 60 | 22 | 35 | | | | | 60 | 67 | 45 | 45 | | | | | |
| | N. attiré. | 60 | 15 | 22 | 30 | | | | | 30 | 45 | 55 | 80 | | | | | |
| | | 60 | 30 | 30 | 30 | | | | | 45 | 60 | 40 | 70 | | | | | |
| | | 45 | 50 | 20 | 30 | | | | | 45 | 52 | 60 | 75 | | | | | |
| | | 30 | 0 | 30 | 15 | | | | | 45 | 45 | 40 | 50 | | | | | |
| Moyennes. | Lm.. | 28 27 52 | 28 40 52 | 29 10 42 | 29 10 2 | 28° 54' 37" | | Moyennes. | Lm.. | 26 2 | 2 26 11 28 | 26 44 2 | 26 49 57 | 26° 26' 52" | | | | |
| | B... | 28 33 53 | 28 34 10 | 29 26 38 | 29 32 6 | 29 1 46 | | | Fr.. | 36 0 | 2 25 26 | 2 2 26 59 15 | 27 6 28 | 26 32 3 | 26° 29' 27" | | | |

VOYAGE AUTOEUR DU MONDE.

| OBSERVATEURS. | DATES et HEURES. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | | |
|--|------------------|--|------------|-------------|----------|-------------------------|--------------------------------|---|------------|------------------------------------|--|---------------------------------------|----------|-------------|----------|--------------------------------|---|-------------|------------|------------------------------------|------|--|--|--|--|--|--|--|--|
| | | SANS CHANGER LES PÔLES. | | | | SANS CHANGER LES PÔLES. | | | | | | SANS CHANGER LES PÔLES. | | | | INDICES. | | Face à l'O. | | Face à l'E. | | | | | | | | | |
| | | INDICES. | | Face à l'O. | | Face à l'E. | | INDICES. | | | | Face à l'O. | | Face à l'E. | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRAVERSÉE DES ILES SANDWICH AU PORT-JACKSON. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lm. | 1819. | Grands arcs. N. attiré. N. repoussé. | 21°45'0 | 21°40'0 | 22°25'0 | 22°55'0 | Points parallèles à la quille. | Division de gauche. Division de droite. 184° 26' 175° 34' | Lm. | 1819. | Grands arcs. N. attiré. N. repoussé. | 21°45'0 | 21°82'0 | 22° 5'0 | 22°47'0 | Points parallèles à la quille. | Division de gauche. Division de droite. 184° 26' 175° 34' | | | | | | | | | | | | |
| Sept. | 26, | | 42 | 30 | 40 | 30 | | | | Sept. | 45 | 40 | 5 | 37 | | | | | | | | | | | | | | | |
| de midi | | | 45 | 35 | 35 | 60 | | | | 27, | 35 | 52 | 20 | 40 | | | | | | | | | | | | | | | |
| à 1 ^h 40' | soir. | | 42 | 45 | 27 | 65 | | | | matin | 40 | 80 | 20 | 55 | | | | | | | | | | | | | | | |
| | | | 52 | 42 | 25 | 37 | | | | | 45 | 52 | 20 | 42 | | | | | | | | | | | | | | | |
| | | | 50 | 45 | 22 | 37 | | | | | 32 | 45 | 15 | 47 | | | | | | | | | | | | | | | |
| | | | 21 32 0 | 21 45 0 | 21 47 0 | 21 20 0 | | | | soir. | 21 50 0 | 21 17 0 | 22 20 0 | 22 10 0 | | | | | | | | | | | | | | | |
| | | | 30 | 37 | 55 | 50 | | | | | 25 | 37 | 15 | 22 | | | | | | | | | | | | | | | |
| | | | 15 | 40 | 87 | 22 | | | | | 25 | 45 | 15 | 0 | | | | | | | | | | | | | | | |
| | | | 20 | 52 | 67 | 70 | | | | | 40 | 67 | 15 | 15 | | | | | | | | | | | | | | | |
| | | | 12 | 62 | 70 | 65 | | | | | 20 | 22 | 20 | 10 | | | | | | | | | | | | | | | |
| | | | 32 | 70 | 65 | 60 | | | | | 50 | 30 | 25 | 27 | | | | | | | | | | | | | | | |
| | | | 21 62 0 | 22 25 0 | 21 75 0 | 21 57 0 | | | | | 21 37 0 | 21 55 0 | 21 15 0 | 21 20 0 | | | | | | | | | | | | | | | |
| | | | 50 | 17 | 70 | 82 | | | | | 60 | 77 | 35 | 15 | | | | | | | | | | | | | | | |
| | | | 67 | 7 | 50 | 72 | | | | | 42 | 77 | 42 | 37 | | | | | | | | | | | | | | | |
| | | | 50 | 5 | 75 | 72 | | | | | 55 | 65 | 32 | 12 | | | | | | | | | | | | | | | |
| | | | 55 | 20 | 45 | 85 | | | | | 55 | 22 | 15 | 27 | | | | | | | | | | | | | | | |
| | | | 50 | 20 | 67 | 85 | | | | | 52 | 77 | 10 | 12 | | | | | | | | | | | | | | | |
| | | | 21 45 0 | 21 45 0 | 21 65 0 | 22 15 0 | | | | | 21 32 0 | 21 40 0 | 21 40 0 | 21 65 0 | | | | | | | | | | | | | | | |
| | | | 40 | 37 | 55 | 22 | | | | | 42 | 95 | 80 | 57 | | | | | | | | | | | | | | | |
| | | | 40 | 25 | 72 | 27 | | | | | 77 | 60 | 67 | 62 | | | | | | | | | | | | | | | |
| | | | 40 | 42 | 80 | 30 | | | | | 57 | 77 | 67 | 55 | | | | | | | | | | | | | | | |
| | | | 45 | 27 | 52 | 12 | | | | | 77 | 57 | 60 | 70 | | | | | | | | | | | | | | | |
| | | | 42 | 40 | 52 | 5 | | | | | 37 | 57 | 80 | 60 | | | | | | | | | | | | | | | |
| | | | 22 10 0 | 22 20 0 | 22 30 0 | 22 30 0 | | | | | 21 40 0 | 21 45 0 | 22 25 0 | 22 12 0 | | | | | | | | | | | | | | | |
| | | | 5 | 35 | 30 | 10 | | | | | 60 | 45 | 10 | 15 | | | | | | | | | | | | | | | |
| | | | 10 | 30 | 20 | 25 | | | | | 55 | 42 | 15 | 15 | | | | | | | | | | | | | | | |
| | | | 15 | 15 | 20 | 30 | | | | | 60 | 45 | 10 | 15 | | | | | | | | | | | | | | | |
| | | | 20 | 30 | 20 | 25 | | | | | 55 | 50 | 15 | 10 | | | | | | | | | | | | | | | |
| | | | 25 | 20 | 30 | 30 | | | | | 60 | 57 | 25 | 25 | | | | | | | | | | | | | | | |
| | | | 22 30 0 | 22 15 0 | 22 30 0 | 22 30 0 | | | | | 21 60 0 | 21 47 0 | 22 15 0 | 21 60 0 | | | | | | | | | | | | | | | |
| | | | 30 | 35 | 0 | 30 | | | | | 55 | 45 | 7 | 55 | | | | | | | | | | | | | | | |
| | | | 15 | 10 | 20 | 30 | | | | | 60 | 55 | 5 | 60 | | | | | | | | | | | | | | | |
| | | | 15 | 20 | 30 | 15 | | | | | 45 | 67 | 20 | 55 | | | | | | | | | | | | | | | |
| | | | 30 | 0 | 10 | 30 | | | | | 40 | 60 | 15 | 70 | | | | | | | | | | | | | | | |
| | | | 20 | 10 | 30 | 15 | | | | | 40 | 67 | 15 | 67 | | | | | | | | | | | | | | | |
| | | | 21 15 0 | 21 15 0 | 22 10 0 | 21 50 0 | | | | | 21 45 0 | 21 55 0 | 21 60 0 | 22 20 0 | | | | | | | | | | | | | | | |
| | | | 25 | 10 | 5 | 55 | | | | | 45 | 57 | 75 | 10 | | | | | | | | | | | | | | | |
| | | | 45 | 30 | 15 | 45 | | | | | 60 | 55 | 55 | 15 | | | | | | | | | | | | | | | |
| | | | 55 | 35 | 20 | 50 | | | | | 35 | 60 | 80 | 15 | | | | | | | | | | | | | | | |
| | | | 35 | 25 | 10 | 75 | | | | | 50 | 55 | 80 | 15 | | | | | | | | | | | | | | | |
| | | | 30 | 35 | 15 | 75 | | | | | 50 | 60 | 60 | 12 | | | | | | | | | | | | | | | |
| | | | 22 5 0 | 22 20 0 | 22 30 0 | 22 55 0 | | | | | 21 45 0 | 21 35 0 | 21 60 0 | 22 15 0 | | | | | | | | | | | | | | | |
| | | | 10 | 5 | 30 | 50 | | | | | 50 | 37 | 70 | 15 | | | | | | | | | | | | | | | |
| | | | 0 | 20 | 30 | 30 | | | | | 45 | 60 | 45 | 5 | | | | | | | | | | | | | | | |
| | | | 15 | 20 | 20 | 40 | | | | | 22 | 45 | 52 | 15 | | | | | | | | | | | | | | | |
| | | | 0 | 15 | 30 | 55 | | | | | 20 | 42 | 70 | 15 | | | | | | | | | | | | | | | |
| | | | 0 | 0 | 15 | 35 | | | | | 45 | 52 | 50 | 5 | | | | | | | | | | | | | | | |
| Moyennes. | Lm.. | | 21 41 47 | 21 50 32 | 22 10 7 | 22 17 17 | 21°59'56" | { | 22° 6' 33" | | Moyennes. | Lm.. | 21 44 47 | 21 55 20 | 22 0 45 | 22 5 10 | 21°56'31" | { | 21° 58' 6" | | | | | | | | | | |
| | Db.. | | 22 4 10 22 | 4 35 | 22 20 50 | 22 23 7 | 22 13 11 | } | | R. . . | Moyennes. | 21 47 35 | 21 51 35 | 22 8 55 | 22 10 40 | 21 59 41 | } | | | | | | | | | | | | |

| OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | |
|--|--|-------------------------|-----------|--------------|-----------|------------------------------------|------------------------|--|
| | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS DÉFINITIFS ET REMARQUES. | | |
| | | INDICES. Face à l'O. | | Face à l'E. | | | | |
| | | Haut. | Bas. | Haut. | Bas. | | | |
| TRAVERSÉE DES ILES SANDWICH AU PORT-JACKSON. | | | | | | | | |
| Frey. | 1819. | +0°22' | +0° 7' | +0°60' | +0°15' | Points parallèles à la quille. | | |
| Octob. | | + 7 | + 0 | + 60 | + 7 | Division de gauche. | Division de droite. | |
| 9, | | + 30 | + 15 | + 45 | + 15 | | | |
| depuis | | + 5 | + 75 | + 45 | - 20 | | | |
| 6° 40' | | + 17 | + 7 | + 30 | - 15 | | | |
| jus- | | + 30 | + 7 | + 50 | - 42 | | | |
| qu'à | | + 0 35 | + 0 10 | + 0 30 | - 0 0 | | | |
| 8° 36' | | + 30 | - 12 | + 52 | - 22 | | | |
| matin. | | + 27 | + 5 | + 57 | - 5 | | | |
| | | + 55 | - 7 | + 50 | - 42 | | | |
| | | + 35 | + 7 | + 60 | - 10 | | | |
| | | + 57 | - 0 | + 30 | - 25 | | | |
| | | Grands arcs. | | N. repoussé. | | | | |
| | | + 0 30 | + 0 30 | + 0 35 | - 0 65 | | | |
| | | + 27 | + 20 | + 47 | - 67 | | | |
| | | + 20 | + 15 | + 77 | - 45 | | | |
| | | + 22 | + 7 | + 45 | - 65 | | | |
| | | + 22 | + 35 | + 37 | - 75 | | | |
| | | + 22 | + 32 | + 57 | - 42 | | | |
| | | Petits arcs. | | N. repoussé. | | | | |
| | | + 0 30 | - 0 27 | + 0 45 | - 0 70 | | | |
| | | + 40 | - 30 | + 45 | - 72 | | | |
| | | + 15 | - 32 | + 45 | - 67 | | | |
| | | + 35 | - 25 | + 75 | - 60 | | | |
| | | + 20 | - 30 | + 75 | - 62 | | | |
| | | + 15 | - 17 | + 55 | - 67 | | | |
| | | Grands arcs. | | N. repoussé. | | | | |
| | | + 0 30 | - 0 50 | + 0 42 | - 0 75 | | | |
| | | + 45 | - 45 | + 45 | - 87 | | | |
| | | + 67 | - 45 | + 30 | - 105 | | | |
| | | + 30 | - 20 | + 30 | - 67 | | | |
| | | + 37 | - 37 | + 30 | - 90 | | | |
| | | + 45 | - 50 | + 22 | - 37 | | | |
| | | Petits arcs. | | N. repoussé. | | | | |
| | | + 0 50 | - 0 85 | + 1 30 | - 1 22 | | | |
| | | + 55 | - 52 | + 17 | - 25 | | | |
| | | + 62 | - 42 | + 30 | - 65 | | | |
| | | + 60 | - 50 | + 12 | - 45 | | | |
| | | + 45 | - 80 | + 27 | - 30 | | | |
| | | + 65 | - 60 | + 40 | - 60 | | | |
| | | Grands arcs. | | N. attiré. | | | | |
| | | + 0 5 | - 0 57 | + 1 30 | - 0 62 | | | |
| | | + 37 | + 5 | + 35 | + 95 | | | |
| | | + 25 | - 22 | + 22 | + 95 | | | |
| | | + 0 | - 22 | + 5 | + 45 | | | |
| | | + 7 | - 27 | + 22 | + 67 | | | |
| | | + 20 | - 60 | + 17 | + 65 | | | |
| | | Petits arcs. | | N. attiré. | | | | |
| | | + 0 32 | - 0 75 | + 0 52 | + 0 77 | | | |
| | | + 67 | - 52 | + 70 | + 62 | | | |
| | | + 30 | - 60 | + 62 | - 50 | | | |
| | | + 75 | - 82 | + 77 | - 45 | | | |
| | | + 57 | - 80 | + 75 | - 40 | | | |
| | | + 70 | - 72 | + 80 | - 77 | | | |
| Moyennes. | Frey. | +0°27' 0 | +0° 1'20" | +0°50'17" | -0°37'32" | | | |
| | Lm. | +0 36 35 | -0 50 50 | +1 7 35 | -0 34 50 | | | |
| | | | | | 0°10' 6'' | | | |
| | | | | | 0 4 37 | | | |
| | | | | | | | | |
| | | | | | 0° 7' 21" | | | |

Points parallèles à la quille.

| Division de gauche. | Division de droite. |
|------------------------|------------------------|
| 184° 26' | 175° 34' |

Cap. Ouest.

Méridien magnétique. { Face O. 175° 34' — 90° = 85° 34'.
{ Face E. 184° 26' — 90° = 94° 26'.

Pointe élevée.....

Mer. Un peu houleuse.
 Roulis. Forts, mais assez irréguliers.
 Tangages. Pas très-forts.
 Observation. Passable,

VOYAGE AUTOUR DU MONDE.

| OBSERVATEUR. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 6. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | |
|--|---|--|---|--|--|---|--|----------|--|--|--------------------------------------|--------------------------------------|--------------------------------------|--|--|------------------------|--|--|--|--|
| | DATES | | SANS CHANGER LES PÔLES. | | | | DATES | | SANS CHANGER LES PÔLES. | | | | | | | | | | | |
| | et HEURES. | INDICES. | Face à l'O. | | Face à l'E. | | et HEURES. | INDICES. | Face à l'O. | | Face à l'E. | | | | | | | | | |
| | | | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | | | | | | | | |
| TRAVERSÉE DES ILES SANDWICH AU PORT-JACKSON. | | | | | | | | | | | | | | | | | | | | |
| Frey. | 1819. Octob. 13, depuis $\frac{7}{h}$ jus- qu'à 9 ^h 30' matin. | Grands arcs. Petits arcs. N. repoussé. N. attiré. | -2°15' 15 20 27 30 17 | +2°30' +25 +35 +40 +25 +30 | +0°17' +20 +30 +30 +0 +2 | -0°25' 2 10 0 7 30 | Points parallèles à la quille. Division de gauche. Division de droite. 184° 26' 175° 34' | Lm. | 1819. Octob. 14, depuis 10 ^h 26' jus- qu'à 11 ^h 28' matin. | Grands arcs. Petits arcs. N. repoussé. N. attiré. | 4°55'0 60 60 37 35 52 | 5° 2'0 10 30 10 15 0 | 5°57'0 42 50 55 42 40 | 5°55'0 50 55 50 50 50 | Points parallèles à la quille. Division de gauche. Division de droite. 184° 26' 175° 34' | | | | | |
| | | | -2 25 40 30 7 0 17 | +2 0 +17 +7 +15 +12 +0 | -0 15 10 15 15 20 15 | -0 18 0 20 10 10 5 | Cap. Ouest. Méridien magnétique. Face O. 175° 34'—90°= 85° 34'. | | | 4 27 0 35 25 50 57 30 | 5 10 0 5 5 10 15 10 | 5 20 0 30 32 17 37 30 | 5 35 0 5 5 10 20 37 | Cap S. 22° 30' O. Méridien magnétique. Face O. 185° 36'—22° 30' = 161° 56'. | | | | | | |
| | | | -2 55 10 35 20 15 40 | +2 0 +25 +55 +20 +45 +55 | -0 20 40 32 15 35 27 | -0 30 7 12 30 40 25 | Face E. 184° 26'—90°= 94° 26'. Pointe élevée. | | | 4 2 0 15 0 45 30 30 | 4 7 0 35 15 45 20 25 | 5 5 0 7 22 7 10 15 | 4 85 0 57 47 47 52 87 | Pointe élevée. Nous. Mer..... Houleuse. Roulis..... Irreguliers et quelquefois assez forts. Tangages... Faibles. Observation. Passable. | | | | | | |
| | | | -2 35 30 30 30 27 47 20 | +2 2 0 +0 +25 +15 +15 +2 | -0 27 32 32 32 0 15 20 | -0 37 37 12 47 45 52 55 | N.B. Il n'y a point ici d'erreur dans les signes, ainsi qu'on serait quelquefois tenté de le croire. En général, la transcription de ces observations est faite avec beaucoup d'attention. | | | 4 30 0 20 42 30 32 22 | 4 75 0 67 70 40 70 40 | 5 25 0 12 12 10 15 10 | 5 35 0 35 25 30 30 30 | | | | | | | |
| Lm. | | Grands arcs. Petits arcs. N. repoussé. N. attiré. | 1 40 45 37 40 32 45 | +1 45 17 27 60 60 45 | -0 7 20 32 2 25 15 | -0 32 42 40 45 30 22 | | G. | 5 25 0 5 15 45 10 | 5 0 0 0 0 25 20 | 4 50 0 30 45 30 55 55 | 4 50 0 60 60 65 60 | | | | | | | | |
| | | | 1 40 35 25 32 32 30 | +1 12 17 10 22 10 15 | +0 30 15 27 22 42 22 | -0 12 2 25 32 5 37 | | | 4 70 0 65 60 60 65 50 | 4 60 0 50 65 55 50 50 | 5 15 0 30 20 30 0 20 | 5 35 0 30 25 30 20 20 | | | | | | | | |
| | | | 1 50 62 50 40 55 62 | +1 45 60 37 57 45 30 | +0 22 10 22 5 10 0 | -0 45 25 12 20 40 32 | | | 4 55 0 55 55 50 57 55 | 4 15 0 20 25 30 20 55 | 5 20 0 20 20 30 15 25 | 5 0 0 15 0 0 5 20 | | | | | | | | |
| | | | 1 50 72 30 70 45 77 | +1 32 52 37 30 30 37 | +0 15 5 10 10 0 25 | -0 40 42 45 55 30 32 | | | 4 40 0 30 45 30 25 30 | 4 55 0 50 45 40 45 35 | 4 40 0 60 65 60 50 60 | 4 25 0 15 40 60 40 60 | | | | | | | | |
| Moyennes. | Frey. Lm. | | -2°25'17 -1 45 40 | +2°20'37 +1 34 40 | -0° 1' 5 -0 7 57 | -0°22'40 -0 30 20 | 0° 7' 7" 0 12 19 { | | Moyennes. | Lm. G. | 4 34 12 4 57 10 | 4 56 17 4 48 57 | 5 25 5 5 3 57 | 5 27 20 4 57 17 | 5° 5' 44" 4 56 51 { | 5° 1' 17" 4 56 51 { | | | | |

| OBSERVATIONS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | RÉSULTATS DÉFINITIFS et remarques. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | RÉSULTATS DÉFINITIFS et remarques. | | |
|--|--|--|--|--|---|--|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|
| | DATES et INDICES. | | SANS CHANGER LES PÔLES. | | | DATES et INDICES. | | SANS CHANGER LES PÔLES. | | | | |
| | Face à l'O. | | Face à l'E. | | | Face à l'O. | | Face à l'E. | | | | |
| | Haut. | Bas. | Haut. | Bas. | | Haut. | Bas. | Haut. | Bas. | | | |
| TRAVERSÉE DES ILES SANDWICH AU PORT-JACKSON. | | | | | | | | | | | | |
| Lm. 1819. Octob. 18, de 10 ^h 20' matin à 11 ^h 40' | 16°27'0 22 15 10 10 2 7 2 22 5 15 | 16°35'0 40 32 20 22 22 40 40 20 0 | 17°10'0 12 27 27 27 45 57 40 60 55 60 | 17°17'0 15 17 10 12 67 52 77 77 77 | Points parallèles à la quille. Division de gauche. Division de droite. 184° 26' 175° 34' | Lm. 1819. Octob. 10 ^h 45' à midi 15'. | 32°42'0 52 45 37 32 45 | 32°55'0 55 67 77 52 87 | 32°35'0 15 12 10 30 50 | 32°32'0 35 22 35 30 37 | Points parallèles à la quille. Division de gauche. Division de droite. 184° 26' 175° 34' | |
| | Grands arcs. 17 0 0 10 0 0 10 7 0 2 22 0 7 22 0 5 0 0 15 20 0 | 16 52 0 16 52 0 16 52 0 16 52 0 16 52 0 16 52 0 16 52 0 | 16 52 0 16 52 0 16 52 0 16 52 0 16 52 0 16 52 0 16 52 0 | 16 52 0 16 52 0 16 52 0 16 52 0 16 52 0 16 52 0 16 52 0 | Cap. S. 22° 30' O. Méridien magnétique. Face E. 184° 26'—22° 30' = 161° 56' Face O. 161° 56'—180° = 18° 4' | | 33 30 0 25 27 25 10 30 | 33 47 0 27 20 22 10 37 | 32 30 0 35 35 30 40 17 | 32 30 0 35 35 30 15 30 | Cap. S. 33° 45' O. Méridien magnétique. Face E. 184° 26'—33° 45' = 150° 41' Face O. 150° 41'—180° = 29° 19' | |
| | Petits arcs. 16 15 0 22 40 0 25 32 0 27 30 0 42 50 0 35 32 0 | N. repoussé. 16 35 0 16 35 0 16 35 0 16 35 0 16 35 0 16 35 0 | N. attiré. 16 25 0 16 25 0 16 25 0 16 25 0 16 25 0 16 25 0 | N. attiré. 16 30 0 10 47 0 12 45 0 15 42 0 10 37 0 25 40 0 | Pointe élevée. Nord. Mer.. Belle. Roulis. Faibles. Tang". Faibles. Obs". Bonne. | | 32 72 0 30 37 72 52 57 | 32 57 0 67 65 60 55 90 | 31 77 0 70 82 47 45 85 | 32 7 0 12 20 20 15 20 | Pointe élevée. Nord. Mer.. Assez belle. Roulis. Faibles. Tang". Faibles, mais irréguliers. Obs". Assez bonne. | |
| | 16 27 0 27 52 0 35 55 0 45 55 0 27 65 0 30 57 0 | 16 60 0 16 60 0 15 25 0 15 15 0 15 0 0 0 75 0 0 50 0 | 16 20 0 16 20 0 17 15 0 17 15 0 16 0 0 15 7 0 15 45 0 | 16 37 0 16 37 0 16 75 0 16 75 0 16 75 0 16 75 0 16 75 0 | | | 32 50 0 45 32 45 40 45 | 33 52 0 50 32 30 47 60 | 31 47 0 78 85 47 80 60 | 32 7 0 12 12 20 40 5 | | |
| B. | Grands arcs. 16 52 0 22 60 0 30 45 0 40 45 0 60 50 0 45 60 0 | N. repoussé. 16 60 0 60 60 0 60 60 0 45 45 0 45 45 0 60 60 0 | N. attiré. 16 45 0 60 60 0 60 60 0 45 37 0 45 45 0 45 45 0 | N. attiré. 16 45 0 60 60 0 60 60 0 37 45 0 45 45 0 45 45 0 | | R. | 32 60 0 60 40 40 75 65 | 33 20 0 10 25 25 10 5 | 32 25 0 25 15 15 0 5 | 32 5 0 5 0 15 20 0 5 | | |
| | 17 0 0 15 67 0 20 60 0 0 60 0 0 75 0 0 50 0 | 16 75 0 16 75 0 17 15 0 15 15 0 15 7 0 15 45 0 | 17 15 0 15 67 0 15 52 0 0 60 0 7 60 0 0 45 0 | 16 75 0 16 75 0 16 75 0 16 75 0 16 75 0 16 75 0 | | | 33 15 0 0 10 20 0 0 | 32 60 0 70 55 40 55 60 | 32 60 0 0 20 10 5 15 | 31 55 0 60 60 65 55 62 | | |
| | 16 25 0 60 30 0 52 22 0 45 20 0 60 15 0 60 15 0 | 16 22 0 16 22 0 17 30 0 15 7 0 22 52 0 15 60 0 | 17 30 0 17 30 0 16 75 0 17 7 0 22 52 0 15 60 0 | 16 75 0 16 75 0 16 75 0 16 75 0 16 75 0 16 75 0 | | | 32 35 0 40 45 50 40 50 | 32 40 0 65 60 70 60 70 | 31 55 0 60 70 60 70 75 | 32 20 0 0 20 10 15 75 | | |
| | Petits arcs. 16 60 0 67 52 0 67 67 0 52 45 0 67 75 0 52 60 0 | N. repoussé. 16 60 0 30 30 0 30 30 0 15 7 0 15 15 0 0 0 0 | N. attiré. 16 60 0 60 60 0 60 60 0 45 45 0 15 15 0 30 30 0 | N. attiré. 16 60 0 60 60 0 60 60 0 45 45 0 15 15 0 30 30 0 | | | 32 20 0 50 45 20 20 50 | 32 65 0 45 45 55 65 60 | 31 50 0 45 45 50 65 60 | 31 45 0 50 50 40 25 50 | | |
| Moyennes. | Lm. B. | 16 37 10 16 54 37 | 16 49 10 16 49 35 | 16 43 21 17 8 20 | 16 55 0 17 1 45 | 16°46' 6" 16 58 34 | 16°52' 20" | | | | | |
| | Moyennes. | Lm. R. | 32 55 43 32 50 25 | 33 2 50 | 32 16 32 32 7 55 | 32 22 25 32 4 27 | 32 31 19 | 32 39' 57" 32 35' 28" | | | | |

| OBSERVATEUR. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 6. | | | | | | | | OBSERVATEUR. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS Définitifs et remarques. | | |
|--|--|----------|-------------------------|---------|--|----------------------|--|--|-------------------------|--|----------|----------|----------|---|---|---|------------------------|--|--|--|
| | DATES | | SANS CHANGER LES PÔLES. | | | | DATES | | SANS CHANGER LES PÔLES. | | | | DATES | | SANS CHANGER LES PÔLES. | | | | | |
| | et | HEURES. | INDICES. | | Face à l'O. | | Face à l'E. | | | et | HEURES. | INDICES. | | Face à l'O. | | Face à l'E. | | | | |
| | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | et | HEURES. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| Lm. 1819. Octobre 30. de 11 ^h matin à midi 15'. | 47°35'0 | 47°25'0 | 46°25'0 | 46°40'0 | Points parallèles à la quille. | | | | Lm. 1819. | 50°10'0 | 50°2'0 | 48°57'0 | 49°22'0 | Points parallèles à la quille. | | | | RÉSULTATS Définitifs et remarques. | | |
| | 42 | 25 | 15 | 42 | Division de gauche. | | Division de droite. | | | 31, | 2 | 0 | 50 | 10 | Division de gauche. | | Division de droite. | | | |
| | 15 | 47 | 40 | 27 | 184° 26' | | 175° 34' | | | de 10 ^h 5' | 2 | 15 | 47 | 22 | 184° 26' | | 175° 34' | | | |
| | 20 | 30 | 20 | 30 | Cap. S. 45° O. | | Méridien magnétique. | | | à 11 ^h 30' | 5 | 15 | 52 | 22 | Cap. S. 45° O. | | Méridien magnétique. | | | |
| | 32 | 57 | 12 | 42 | Face E. 184° 26'—55°— | | Face O. 139° 26'—180°— | | | matin. | 15 | 5 | 52 | 12 | Face E. 184° 26'—45°— | | Face O. 139° 26'—180°— | | | |
| | 10 | 32 | 20 | 50 | 139° 26' | | 40° 34' | | | | 2 | 15 | 60 | 12 | 45° 22' | | 40° 34' | | | |
| | 47 | 2 0 | 46 62 0 | 45 42 0 | 46 45 0 | Pointe élevée. Nond. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 50 15 0 | 50 20 0 | 49 35 0 | 49 35 0 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Pointe élevée. Nond. | | | |
| | 27 | 87 | 50 | 50 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Pointe élevée. Nond. | | | 25 | 10 | 37 | 22 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Pointe élevée. Nond. | | | | |
| | 45 | 65 | 32 | 2 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 2 | 15 | 27 | 17 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 20 | 50 | 55 | 25 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 5 | 15 | 30 | 7 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 0 | 57 | 52 | 37 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 22 | 15 | 25 | 20 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 45 | 70 | 57 | 5 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 15 | 60 | 7 | 2 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 46 42 0 | 47 5 0 | 46 42 0 | 46 25 0 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 49 25 0 | 49 5 0 | 49 5 0 | 49 5 0 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 60 | 15 | 12 | 27 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 15 | 47 | 17 | 10 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 72 | 2 | 7 | 15 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 42 | 55 | 22 | 15 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 80 | 15 | 12 | 20 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 40 | 45 | 10 | 2 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 47 | 5 | 40 | 12 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 27 | 52 | 10 | 0 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 80 | 0 | 20 | 27 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 15 | 60 | 7 | 2 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 46 42 0 | 46 57 0 | 45 60 0 | 46 22 0 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 49 45 0 | 49 52 0 | 49 10 0 | 49 25 0 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 82 | 37 | 52 | 7 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 50 | 55 | 25 | 15 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 37 | 40 | 52 | 27 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 45 | 42 | 22 | 10 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 70 | 35 | 40 | 17 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 45 | 47 | 30 | 25 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 67 | 52 | 57 | 20 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 45 | 50 | 27 | 0 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 52 | 42 | 50 | 12 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 47 | 50 | 10 | 15 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| Fb. | 47 27 0 | 47 17 0 | 46 55 0 | 46 5 0 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Db. | 49 67 0 | 49 50' 0 | 49 10 0 | 49 5 0 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 22 | 12 | 40 | 17 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 50 | 50 | 0 | 15 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 22 | 20 | 42 | 30 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 52 | 45 | 15 | 7 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 22 | 12 | 42 | 27 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 45 | 45 | 35 | 30 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 22 | 25 | 37 | 45 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 45 | 55 | 15 | 30 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 25 | 17 | 40 | 37 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 60 | 45 | 35 | 20 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 47 12 0 | 47 12 0 | 46 47 0 | 46 22 0 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 50 0 0 | 50 0 0 | 49 10 0 | 48 65 0 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 22 | 12 | 50 | 22 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 20 | 5 | 37 | 60 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 15 | 17 | 37 | 7 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 30 | 20 | 25 | 60 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 22 | 12 | 27 | 37 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 7 | 10 | 0 | 75 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 27 | 13 | 47 | 37 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 15 | 25 | 35 | 55 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 17 | 17 | 45 | 22 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 49 45 0 | 49 60 0 | 49 0 0 | 49 20 0 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 22 | 15 | 30 | 40 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 42 | 50 | 22 | 5 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 12 | 17 | 27 | 30 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 45 | 60 | 20 | 5 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 15 | 10 | 42 | 27 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 60 | 65 | 20 | 0 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 15 | 22 | 30 | 42 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 57 | 5 | 5 | 67 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 12 | 7 | 37 | 42 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 62 | 0 | 7 | 70 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| | 12 | 10 | 47 | 37 | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | Mer.. Belle. Roulis. Faibles. Obs ^{ns} . Bonne. | | | 65 | 10 | 0 | 80 | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | Mer.. Belle. Roulis. Faibles. Tang ^{ns} . Faibles. Obs ^{ns} . Fort bonne. | | | | |
| Moyennes. | Lm. | 47 12 40 | 47 8 0 | 46 6 0 | 46 26 5 | 46°43' 11" | 46°40' 7" | | Moyennes. | 49 52 57 | 50 1 50 | 49 14 20 | 49 14 10 | 49°35' 48" | 49°36' 18" | | | | | |
| | Fb. | 47 17 40 | 47 15 | 46 37</ | | | | | | | | | | | | | | | | |

CHAP. III. — INCLINAISON DE L'AIGUILLE AIMANTÉE.

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| INCLINAISON MAGNÉTIQUE.—AIGUILLE N°6. | | | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N°5. | | | | | | | | | | | | |
|---------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|---|--------------------------------|---------------------|-------|------|---------------------------------------|--|---|---|--|--|--|---------------------------------------|-------------------------|--|--|--|--|
| OBSERVATEURS. | DATES et HEURES. | RÉSULTATS DÉFINITIFS | | | | | | | | OBSERVATEURS. | DATES et HEURES. | RÉSULTATS DÉFINITIFS | | | | | | | | | | |
| | | SANS CHANGER LES PÔLES. | | | | et remarques. | | | | | | SANS CHANGER LES PÔLES. | | | | et remarques. | | | | | | |
| | | Face à l'O. | Face à l'E. | Haut. | Bas. | Face à l'O. | Face à l'E. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | | |
| Lm. | 1819. Nov. 7, de 1 ^{er} 0' à 2 nd 10' soir. | 59°35'0 50 20 27 50 20 | 59°30'0 25 42 30 35 22 | 60°42'0 30 25 30 30 40 | 59°72'0 60 65 82 57 80 | Points parallèles à la quille. | | | | | Lm. | 1819. Nov. 8, de 11 th 8' matin à midi 20'. | 60°55'0 45 55 40 42 47 | 60°37'0 15 5 40 45 22 | 60°52'0 10 15 15 70 60 | 60°4'0 62 20 40 72 5 | Points parallèles à la quille. | | | | | |
| | | Grands arcs. | N. repoussé. | N. attiré. | | Division de gauche. | Division de droite. | | | | Grands arcs. | N. repoussé. | N. attiré. | | Division de gauche. | Division de droite. | | | | | | |
| | | | | | | 184° 26' | 175° 34' | | | | | | | | 184° 26' | 175° 34' | | | | | | |
| | | 59 57 0 50 55 55 65 57 | 60 22 0 12 12 15 12 17 | 60 0 60 22 22 15 15 27 | 60 20 0 7 7 5 25 17 | Cap. S. 45° O. | | | | | 60 10 0 30 30 15 17 27 | 60 20 0 5 22 30 40 60 | 60 20 0 35 60 55 52 35 | 60 45 0 35 45 47 30 25 | 60 45 0 62 20 40 55 75 | 60 45 0 62 20 40 55 75 | Cap. O. 11° 15' N. — N. 78° 45' O. | | | | | |
| | | 58 67 0 40 47 47 55 52 | 59 22 0 22 7 0 17 0 | 60 15 0 5 15 0 0 0 | 60 15 0 5 17 15 15 40° 34' | Méridien magnétique. | | | | | 60 45 0 60 55 45 15 22 | 60 45 0 15 25 37 42 50 | 60 40 0 42 75 87 52 55 | 60 60 0 25 55 60 60 45 | 60 60 0 25 55 60 60 45 | 60 60 0 25 55 60 60 45 | Méridien magnétique. | | | | | |
| | | 59 50 0 57 30 47 35 70 | 60 0 0 2 15 0 2 20 | 59 40 0 47 47 57 55 70 | 59 35 0 50 50 67 60 67 | Pointe dévée. NORD. | | | | | 60 65 0 80 45 27 7 2 | 60 5 0 17 52 10 60 90 | 60 30 0 12 25 45 50 27 | 59 40 0 75 37 35 55 80 | 59 40 0 75 37 35 55 80 | 59 40 0 75 37 35 55 80 | Pointe dévée. NORD. | | | | | |
| B. | | Grands arcs. | N. repoussé. | N. attiré. | | | | | | | G. | Grands arcs. | N. repoussé. | N. attiré. | | | | | | | | |
| | | 59 25 0 45 45 30 37 15 | 59 30 0 30 30 25 30 30 | 60 15 0 30 7 25 22 25 | 60 20 0 30 7 15 30 7 | | | | | | 59 60 0 50 35 35 30 25 | 59 60 0 50 45 75 55 85 | 60 15 0 5 10 60 60 65 | 60 10 0 5 0 0 15 15 | 60 10 0 5 0 0 15 15 | 60 10 0 5 0 0 15 15 | | | | | | |
| | | 59 60 0 52 50 90 50 82 | 59 45 0 52 90 75 60 90 | 60 27 0 15 22 45 7 0 | 60 15 0 15 30 45 15 15 | | | | | | 59 25 0 70 90 75 90 27 | 59 50 0 45 50 70 95 112 | 60 30 0 12 25 45 50 27 | 59 40 0 75 37 35 55 80 | 59 40 0 75 37 35 55 80 | 59 40 0 75 37 35 55 80 | | | | | | |
| | | 59 30 0 22 25 15 7 30 | 59 60 0 30 35 15 22 30 | 60 0 0 22 15 15 22 25 | 60 30 0 0 0 30 7 15 | | | | | | 59 15 0 30 25 16 30 58 55 | 59 25 0 45 50 70 95 115 | 59 45 0 115 20 45 40 115 | 59 65 0 105 60 50 65 50 | 59 65 0 105 60 50 65 50 | 59 65 0 105 60 50 65 50 | | | | | | |
| | | 58 45 0 75 65 45 67 50 | 58 75 0 52 75 60 60 75 | 60 35 0 22 37 30 30 7 | 60 30 0 37 30 30 30 15 | | | | | | 58 90 0 95 45 110 115 102 | 59 25 0 45 0 0 40 50 | 59 70 0 105 70 95 45 35 | 59 50 0 85 60 70 75 61 | 59 50 0 85 60 70 75 61 | 59 50 0 85 60 70 75 61 | | | | | | |
| Moyennes. | Lm.. | 59 92 25 59 29 2 | 59 45 52 59 35 27 | 60 11 0 60 20 50 | 60 0 60 20 45 | 59° 54' 7" 59 56 31 | 59° 55' 19" | | | | Moyennes. | Lm.. | 60 38 5 59 38 5 | 60 32 2 59 47 35 | 60 28 25 60 22 52 | 60 28 42 60 5 5 | 60° 51' 49" 59 58 24 | 60° 51' 49" 59 58 24 | | | | |

| OBSERVATEURS. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS et remarques. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------|--|--|--|--|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|--------------------------------|--|-------|--|--|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--|----|-----|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|----|--|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|----------------------|----|-----|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|----|--|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|----------------------|----|-----|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|----|--|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|----------------------|----|-----|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|----|--|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|----------------------|----|-----|--|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|--|----|--|---------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------|----------------------|----|-----|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|----|--|---------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------|----------------------|-----------|-----|--------------------|---------|----------|------------|-------------|-----------|-----|----------------------|----------------------|----------|---------|-----------|-------------|
| | DATES et HEURES. | | SANS CHANGER LES PÔLES. | | | | DATES et HEURES. | | SANS CHANGER LES PÔLES. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Face à l'O. | | Face à l'E. | | | | Face à l'O. | | Face à l'E. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | Haut. | Bas. | Haut. | Bas. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRAVERSÉE DE PORT-JACKSON A LA BAIE DU BON-SUCCÈS (TERRE-DE-FEU). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lm. | 1819. | Déc. 28, de 11 ^h 0' matin à midi 1/2. | Grands arcs. N. repoussé. N. attiré. | 67°40'0 57 77 62 77 97 | 68°27'0 32 15 10 30 15 | 67°70'0 72 72 50 62 77 | 68°27'0 30 17 12 12 22 | Points parallèles à la quille. | Lm. | 1819. | Déc. 29, de 1 ^h 5' à soir. | Grands arcs. N. repoussé. N. attiré. | 67°57'0 70 77 85 75 62 | 68°30'0 19 30 35 32 32 | 68°22'0 37 18 25 35 25 | 68° 2'0 20 2 0 5 2 | Points parallèles à la quille. | Lm. | 1819. | Déc. 29, de 1 ^h 5' à soir. | Grands arcs. N. repoussé. N. attiré. | 67°57'0 57 55 62 40 37 | 67°62'0 77 65 48 80 72 | 68°45'0 30 30 47 42 42 | 68°37'0 25 40 10 7 45 | Division de gauche. Division de droite. | R. | (*) | Grands arcs. N. repoussé. N. attiré. | 68 30 0 15 12 25 20 12 | 67 90 0 80 50 65 47 80 | 68 17 0 27 27 45 20 40 | 68 42 0 45 25 37 45 40 | (*) Le cap change et devient : S. 11° 15' O. donc : | B. | Grands arcs. N. repoussé. N. attiré. | 67 60 0 45 22 52 22 60 | 67 30 0 37 30 30 22 30 | 68 7 0 30 15 15 22 15 | 67 60 0 60 67 67 60 55 | Méridien magnétique. | R. | (*) | Grands arcs. N. repoussé. N. attiré. | 68 30 0 15 12 25 20 12 | 67 75 0 80 55 45 37 80 | 68 45 0 45 25 37 40 30 | 68 45 0 45 37 30 40 30 | (*) Le cap change et devient : S. 11° 15' O. donc : | B. | Grands arcs. N. repoussé. N. attiré. | 67 60 0 45 22 52 22 60 | 67 30 0 37 30 30 22 30 | 68 7 0 30 15 15 22 15 | 67 60 0 60 67 67 60 55 | Méridien magnétique. | R. | (*) | Grands arcs. N. repoussé. N. attiré. | 67 70 0 55 85 62 75 80 | 67 75 0 80 55 75 55 75 | 68 45 0 45 47 52 45 40 | 68 45 0 45 47 52 40 40 | (*) Le cap change et devient : S. 11° 15' O. donc : | B. | Grands arcs. N. repoussé. N. attiré. | 67 60 0 45 22 52 22 60 | 67 30 0 37 30 30 22 30 | 68 7 0 30 15 15 22 15 | 67 60 0 60 67 67 60 55 | Méridien magnétique. | R. | (*) | Grands arcs. N. repoussé. N. attiré. | 67 70 0 95 45 65 70 45 | 67 50 0 52 55 50 65 75 | 67 50 0 57 65 65 55 55 | 67 57 0 52 60 70 50 50 | (*) Le cap change et devient : S. 11° 15' O. donc : | B. | Grands arcs. N. repoussé. N. attiré. | 67 60 0 45 22 52 22 60 | 67 30 0 37 30 30 22 30 | 68 7 0 30 15 15 22 15 | 67 60 0 60 67 67 60 55 | Méridien magnétique. | R. | (*) | Grands arcs. N. repoussé. N. attiré. | 67 50 0 42 45 57 45 57 | 67 50 0 55 40 52 42 42 | 67 65 0 62 50 67 60 70 | 68 5 0 10 2 10 10 15 | (*) Le cap change et devient : S. 11° 15' O. donc : | B. | Grands arcs. N. repoussé. N. attiré. | 67 45 0 30 30 30 30 30 | 67 30 0 40 52 45 30 0 | 68 7 0 0 60 60 45 45 | 67 60 0 60 67 67 60 55 | Méridien magnétique. | R. | (*) | Grands arcs. N. repoussé. N. attiré. | 67 45 0 42 52 45 45 40 | 67 45 0 52 60 60 45 30 | 67 45 0 45 52 60 60 45 | 67 45 0 52 30 30 30 30 | (*) Le cap change et devient : S. 11° 15' O. donc : | B. | Grands arcs. N. repoussé. N. attiré. | 67 45 0 30 30 30 30 30 | 67 30 0 40 52 45 30 0 | 68 7 0 0 60 60 45 45 | 67 60 0 60 67 67 60 55 | Méridien magnétique. | Moyennes. | Lm. | 67 52 47 68 6 0 | 68 20 7 | 68 33 40 | 68° 13' 9" | 68° 12' 16" | Moyennes. | Lm. | 67 49 50 67 33 25 | 67 57 55 67 33 23 | 68 18 32 | 65 5 52 | 68° 3' 2" | 67° 55' 15" |
| Moyennes. | R. | 68 6 7 68 1 2 | 68 16 12 | 68 22 15 | 68 11 24 | | | Moyennes. | B. | 67 51 55 67 47 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| OBSERVATEURS, | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | INCLINAISON MAGNÉTIQUE.—AIGUILLE N° 5. | | | | | | | | RÉSULTATS | | | |
|---------------------|--|-------------------------|-----------|-------------|---|--------------------------------|------|-------------|--|------------------------|-------------------------|-----------|-------------|--|-----------------------------|--------------------------------|-----------|--|--|--|
| | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | RÉSULTATS | | | | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | DÉFINITIFS et remarques. | | | | | |
| | | INDICES. | | Face à l'O. | | DÉFINITIFS | | Face à l'E. | | | INDICES. | | Face à l'O. | | Face à l'E. | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | Haut. | Bas. | Haut. | Bas. | Haut. | Bas. | | | | |
| Lm. | 1820. | 72° 5' 0 | 72° 22' 0 | 72° 42' 0 | 72° 22' 0 | Points parallèles à la quille. | | | | Lim. | 1 8 0 | 72° 45' 0 | 72° 47' 0 | 72° 50' 0 | 72° 15' 0 | Points parallèles à la quille. | | | | |
| Janv. | 15 | 7 | 60 | 7 | Division de gauche. | | | | Jany. | 60 | 50 | 45 | 30 | Division de gauche. | | | | | | |
| 28, | 15 | 30 | 32 | 20 | Division de droite. | | | | 29, | 55 | 52 | 45 | 22 | Division de droite. | | | | | | |
| de | 40 | 0 | 52 | 47 | 11 ^h 30' | | | | de | 52 | 60 | 37 | 22 | 183° 22' | | | | | | |
| Il ^h 10' | 25 | 32 | 57 | 25 | matin | | | | 62 | 67 | 37 | 0 | 176° 38' | | | | | | | |
| matin | 15 | 25 | 60 | 22 | à | | | | 75 | 62 | 30 | 40 | 183° 22' | | | | | | | |
| à | 71 | 67 | 0 | 72 0 0 | soir. | | | | 2 ^h 15' | Grands arcs. | | | | 176° 38' | | | | | | |
| 1 ^h 15' | 62 | 20 | 25 | 30 | Observé sous la dunette. | | | | soir. | 72 75 0 | 72 82 0 | 72 25 0 | 72 50 0 | Points parallèles à la quille. | | | | | | |
| soir. | 67 | 27 | 37 | 22 | Cap. Est. | | | | | 75 | 42 | 52 | 37 | Observé sous la dunette. | | | | | | |
| | 30 | 2 | 25 | 35 | Méridien magnétique. | | | | | 80 | 60 | 45 | 45 | Cap. N. 56° 15' O. | | | | | | |
| | 37 | 0 | 30 | 27 | Face O. 183° 22' — 90° = | | | | | 65 | 40 | 40 | 35 | Méridien magnétique. | | | | | | |
| | 65 | 10 | 15 | 15 | 93° 22' | | | | | 60 | 52 | 52 | 67 | Face O. 183° 22' — 56° 15' | | | | | | |
| | 72 | 37 | 0 | 72 30 0 | Face E. 176° 38' — 90° = | | | | | 52 | 102 | 30 | 65 | = 127° 7' | | | | | | |
| | 30 | 37 | 7 | 22 | 86° 38' | | | | | 72 37 0 | 72 70 0 | 72 50 0 | 72 32 0 | Face E. 127° 7' → 180° | | | | | | |
| | 25 | 10 | 30 | 45 | Pointe élevée. Nord. | | | | | 60 | 52 | 37 | 40 | Face E. 127° 7' → 52° 53' | | | | | | |
| | 7 | 30 | 10 | 17 | Pointe A.. En bas. | | | | | 30 | 52 | 30 | 30 | Pointe élevée. Nord. | | | | | | |
| | 30 | 0 | 40 | 10 | Pointe A.. En bas. | | | | | 45 | 70 | 45 | 7 | Pointe A.. En bas. | | | | | | |
| | 15 | 0 | 30 | 45 | Mer... Grosse. Roulis... Forts. Tang ^{es} ... Faibles. Obs ^{es} ... Assez bonne. | | | | | 60 | 55 | 52 | 35 | Mer... Grosse. Roulis... Forts. Tangages... Faibles. Observation. Médiocre. | | | | | | |
| | 72 | 10 | 0 | 72 52 0 | Petits arcs. | | | | | 47 | 80 | 55 | 22 | Petits arcs. | | | | | | |
| | 10 | 15 | 40 | 22 | 72 52 0 | | | | | 72 52 0 | 72 90 0 | 72 20 0 | 72 30 0 | Petits arcs. | | | | | | |
| | 45 | 7 | 12 | 2 | 72 90 0 | | | | | 47 | 30 | 32 | 37 | 72 80 0 | | | | | | |
| | 45 | 7 | 35 | 15 | 22 | | | | | 22 | 30 | 30 | 22 | 72 25 0 | | | | | | |
| | 30 | 39 | 2 | 20 | 75 | | | | | 20 | 67 | 35 | 37 | 72 45 0 | | | | | | |
| | 40 | 62 | 10 | 2 | 72 20 0 | | | | | 47 | 82 | 47 | 22 | 72 10 0 | | | | | | |
| | 72 | 0 0 | 72 37 0 | 72 15 0 | 72 20 0 | | | | | 30 | 75 | 22 | 30 | 72 30 0 | | | | | | |
| B. | 72 | 0 0 | 71 37 0 | 72 15 0 | 72 10 0 | | | | | 72 85 0 | 73 55 0 | 72 60 0 | 72 30 0 | 72 20 0 | | | | | | |
| | 22 | 15 | 45 | 7 | 72 25 0 | | | | | 70 | 40 | 15 | 60 | 72 25 0 | | | | | | |
| | 0 | 15 | 15 | 5 | 72 20 0 | | | | | 70 | 45 | 15 | 42 | 72 45 0 | | | | | | |
| | 37 | 15 | 15 | 20 | 71 37 0 | | | | | 50 | 55 | 25 | 5 | 72 10 0 | | | | | | |
| | 67 | 0 | 37 | 7 | 72 15 0 | | | | | 55 | 30 | 40 | 40 | 72 30 0 | | | | | | |
| | 60 | 30 | 30 | 15 | 72 15 0 | | | | | 85 | 35 | 75 | 30 | 72 35 0 | | | | | | |
| | 72 | 0 0 | 71 37 0 | 72 15 0 | 72 20 0 | | | | | 70 | 40 | 15 | 60 | 72 20 0 | | | | | | |
| | 7 | 75 | 22 | 15 | 72 20 0 | | | | | 70 | 45 | 15 | 42 | 72 25 0 | | | | | | |
| | 15 | 60 | 30 | 22 | 72 20 0 | | | | | 50 | 55 | 25 | 5 | 72 45 0 | | | | | | |
| | 22 | 30 | 30 | 22 | 72 20 0 | | | | | 75 | 5 | 45 | 30 | 72 10 0 | | | | | | |
| | 27 | 40 | 30 | 12 | 72 20 0 | | | | | 30 | 5 | 30 | 30 | 72 30 0 | | | | | | |
| | 22 | 30 | 22 | 22 | 72 20 0 | | | | | 35 | 15 | 15 | 35 | 72 35 0 | | | | | | |
| | 72 | 25 0 | 72 20 0 | 71 75 0 | 72 30 0 | | | | | 72 20 0 | 72 25 0 | 72 30 0 | 72 25 0 | 72 25 0 | | | | | | |
| | 0 | 22 | 75 | 25 | 72 25 0 | | | | | 60 | 45 | 35 | 5 | 72 25 0 | | | | | | |
| | 0 | 30 | 82 | 7 | 72 25 0 | | | | | 30 | 25 | 40 | 30 | 72 45 0 | | | | | | |
| | 0 | 15 | 90 | 0 | 72 25 0 | | | | | 25 | 15 | 60 | 55 | 72 10 0 | | | | | | |
| | 30 | 37 | 55 | 22 | 72 25 0 | | | | | 30 | 50 | 35 | 50 | 72 30 0 | | | | | | |
| | 52 | 0 | 90 | 25 | 72 25 0 | | | | | 85 | 55 | 30 | 0 | 72 35 0 | | | | | | |
| | 72 | 15 0 | 72 15 0 | 72 22 0 | 72 15 0 | | | | | 45 | 30 | 15 | 30 | 72 20 0 | | | | | | |
| | 15 | 30 | 15 | 15 | 72 20 0 | | | | | 70 | 30 | 15 | 20 | 72 20 0 | | | | | | |
| | 30 | 30 | 15 | 22 | 72 20 0 | | | | | 75 | 30 | 10 | 30 | 72 25 0 | | | | | | |
| | 0 | 15 | 30 | 15 | 72 20 0 | | | | | 45 | 45 | 0 | 0 | 72 45 0 | | | | | | |
| | 22 | 0 | 45 | 30 | 72 20 0 | | | | | 35 | 50 | 5 | 62 | 72 10 0 | | | | | | |
| | 0 | 0 | 22 | 10 | 72 20 0 | | | | | | | | | 72 30 0 | | | | | | |
| Moyennes. | Lm. | 72 16 57 | 72 19 20 | 72 30 57 | 72 21 50 | 72 22 16'' | | | | Moyennes. | Lm. | 72 52 12 | 73 1 12 | 72 39 17 | 72 32 10 | 72 46' 13'' | | | | |
| | B. | 72 19 30 | 72 9 55 | 72 23 25 | 72 16 27 | 72 17 19 | | | | | Fr. | 72 52 5 | 72 51 15 | 72 28 57 | 72 27 40 | 72 43' 6'' | | | | |

| OBSERVATEURS. | INCLINAISON MAGNÉTIQUE. — AIGUILLE N° 5. | | | | | | | | RÉSULTATS DÉFINITIFS ET REMARQUES. | |
|---------------|--|---|----------------------|---------------------|---------------------|--------------------------------|--|-------------|------------------------------------|--|
| | DATES et HEURES. | SANS CHANGER LES PÔLES. | | | | | | | | |
| | | Face à l'O. | | Face à l'E. | | | | | | |
| | | Haut. | Bas. | Haut. | Bas. | | | | | |
| | | TRAVERSÉE DE LA BAIE DU BON-SUCCÈS (TERRE-DE-FEU) AUX ILES MALOUINES. | | | | | | | | |
| Frey. | 1820. Fév. 9, de 3 ^h 5' à 4 ^h 30' soir. | 61° 17' 0 | 61° 30' 0 | 61° 5' 0 | 61° 10' 0 | Points parallèles à la quille. | | | | |
| | | 47 | 35 | 32 | 40 | | | | | |
| | | 15 | 37 | 45 | 45 | | | | | |
| | | 22 | 30 | 22 | 32 | | | | | |
| | | 31 | 40 | 15 | 25 | | | | | |
| | | 40 | 40 | 17 | 17 | | | | | |
| | | 61 7 0 | 61 27 0 | 61 60 0 | 60 10 50 | | | | | |
| | | 7 | 30 | 50 | 62 | | | | | |
| | | 35 | 25 | 22 | 82 | | | | | |
| | | 22 | 40 | 55 | 50 | | | | | |
| | | 55 | 25 | 47 | 70 | | | | | |
| | | 52 | 30 | 42 | 80 | | | | | |
| | | 61 10 0 | 61 40 0 | 60 47 0 | 60 52 0 | | | | | |
| | | 45 | 55 | 100 | 30 | | | | | |
| | | 20 | 22 | 70 | 90 | | | | | |
| | | 25 | 45 | 107 | 35 | | | | | |
| | | 25 | 20 | 67 | 60 | | | | | |
| | | 15 | 15 | 97 | 85 | | | | | |
| | | 61 22 0 | 61 5 0 | 60 90 0 | 60 47 0 | | | | | |
| | | 22 | 15 | 87 | 60 | | | | | |
| | | 5 | 0 | 55 | 45 | | | | | |
| | | 30 | 37 | 85 | 50 | | | | | |
| | | 0 | 27 | 85 | 70 | | | | | |
| | | 25 | 0 | 47 | 65 | | | | | |
| Lm. | | 61 30 0 | 61 30 0 | 61 35 0 | 61 45 0 | | | | | |
| | | 45 | 52 | 40 | 45 | | | | | |
| | | 20 | 30 | 35 | 50 | | | | | |
| | | 15 | 30 | 55 | 30 | | | | | |
| | | 35 | 20 | 15 | 17 | | | | | |
| | | 50 | 25 | 25 | 50 | | | | | |
| | | 61 60 0 | 61 45 0 | 61 45 0 | 61 30 0 | | | | | |
| | | 47 | 40 | 20 | 37 | | | | | |
| | | 60 | 40 | 15 | 32 | | | | | |
| | | 45 | 40 | 47 | 35 | | | | | |
| | | 52 | 42 | 35 | 37 | | | | | |
| | | 50 | 35 | 42 | 55 | | | | | |
| | | 60 45 0 | 60 60 0 | 61 45 0 | 61 50 0 | | | | | |
| | | 75 | 60 | 55 | 15 | | | | | |
| | | 60 | 52 | 30 | 35 | | | | | |
| | | 62 | 45 | 35 | 32 | | | | | |
| | | 77 | 80 | 40 | 30 | | | | | |
| | | 45 | 45 | 45 | 47 | | | | | |
| | | 60 65 0 | 60 62 0 | 61 40 0 | 61 35 0 | | | | | |
| | | 50 | 85 | 35 | 45 | | | | | |
| | | 75 | 90 | 32 | 15 | | | | | |
| | | 50 | 30 | 32 | 30 | | | | | |
| | | 40 | 97 | 45 | 45 | | | | | |
| | | 75 | 85 | 45 | 30 | | | | | |
| Moyennes.. | Frey. Lm. | 61 24 45 61 21 10 | 61 27 55 61 20 50 | 61 11 12 61 37 0 | 61 9 27 61 36 20 | 61° 18' 20" 61 28 50 | | 61° 23' 35" | | |

CHAPITRE IV.

CORRECTION D'ÉQUILIBRE DES INCLINAISONS, OBSERVÉES SANS CHANGER LES PÔLES.

| LIEU où l'observation a été faite. | DATE. | SUJET DE L'AIGUILLE. | INCLINAISON OBSERVÉE. | | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|---|---|----------------------|---|------------------|--------------------------------|---------------------------|--------------------|-----------------------|---------------------------|-------------------|------------|
| | | | NATURE de l'observation. | POINTE LOUPE. | RÉSULTATS de l'observation. | observée. | calculé. | corrigé. | Moyenne et définitive. | | |
| Paris (Observatoire royal). | 1817. Mars. 15, 16 et 22. Avril. | 0 | Avant pôles changés... Après pôles changés... | N. S. | 68°34'30" 68 29 31 | 0° 4'59" ..... | ..... | 68°32' 1" 68 26 31 | 68°32' 1" 68 26 31 | Sud. | |
| | 2. | 1 | Sans changer les pôles. Avant pôles changés... | N. S. | 68 31 46 67 34 36 | 1 28 18 | 0° 5'15" | 68 26 31 68 18 45 | 68 26 31 68 18 45 | Sud. | |
| | 3 et 4. | 4 | Après pôles changés... Sans changer les pôles. | N. N. | 69 2 54 68 34 7 | ..... ..... | ..... 0 840 | 68 18 45 68 25 27 | 68 18 45 68 25 27 | Sud. | |
| | Octobre | 3. | Sans changer les pôles. | N. | 68 34 7 | ..... | 0 840 | 68 25 27 | 68 25 27 | Sud. | |
| | 25. | 0 | Sans changer les pôles. | S. | 57 40 14 | ..... | 0 3 38 | 57 43 52 | 57 43 52 | Sud. | |
| | 26. | 1 | Sans changer les pôles. | N. | 58 14 52 | ..... | 0 7 32 | 58 7 20 | 58 7 20 | Sud. | |
| | 1818. Janvier. | | | | | | | | | | |
| | Rio-de-Janeiro. (1 ^{re} relâche.) | 1. | Avant pôles changés... Après pôles changés... | N. S. | 14 20 42 15 6 36 | 0 45 54 ..... | ..... | 14 43 39 | 14 43 39 | Nord. | |
| | 2. | 4 | Sans changer les pôles. | N. | 11 49 30 | ..... | 2 47 39 | 14 37 9 | 14 37 9 | Nord. | |
| | 2. | 3 | Sans changer les pôles. | S. | 15 26 6 | ..... | 0 22 52 0 19 31 | 15 3 14 15 6 35 | 15 4 54 | Nord. | |
| Cap de Bonne-Espérance. (Cape-Town). | 3 et 6. | 4 | Avant pôles changés... Après pôles changés... | N. S. | 12 2 42 17 38 0 | 5 35 18 ..... | ..... | 14 50 21 | 14 50 21 | Nord. | |
| | Mars. | | | | | | | | | | |
| | 8 et 9. | 3 | Avant pôles changés... Après pôles changés... | S. | 14 52 30 14 13 18 | 0 39 12 ..... | ..... | 14 32 54 | 14 32 54 | Nord. | |
| Port-Louis, Île-de-France. | 14. | 1 | Sans changer les pôles. | N. | 50 26 42 | ..... | 0 9 7 | 50 35 49 | 50 35 49 | Nord. | |
| | 20. | 1 | Avant pôles changés... Après pôles changés... | N. S. | 54 42 0 54 58 30 | 0 16 30 ..... | ..... | 54 50 15 | 54 50 15 | Nord. | |
| | Juillet. | | | | | | | | | | |
| S ^t -Denis, île Bourbon. | 4. | 3 | Avant pôles changés... Après pôles changés... | S. | 55 34 49 54 19 3 | 1 15 46 ..... | ..... | 54 56 56 | 54 56 56 | Nord. | |
| | 23. | 3 | Sans changer les pôles. | N. | 53 55 45 | ..... | 0 38 50 0 29 17 | 54 34 35 54 25 2 | 54 29 48 | Nord. | |
| | Sept. | | | | | | | | | | |
| B. des Chiens-Marins (presqu'île Péron). | 23. | 3 | Avant pôles changés... Après pôles changés... | N. S. | 54 17 6 55 14 30 | 0 57 24 ..... | ..... | 54 45 48 | 54 45 48 | Nord. | |
| | Octobre | | | | | | | | | | |
| Coupang (île Timor). | 14. | 1 | Avant pôles changés... Après pôles changés... | S. | 33 1 48 32 53 36 | 0 4 12 ..... | ..... | 32 57 42 | 32 57 42 | Nord. | |
| | Nov. | | | | | | | | | | |
| Dillé (île Timor). | 19. | 1 | Sans changer les pôles. | N. | 29 55 16 | ..... | 0 2 10 0 8 0 | 29 57 26 30 3 16 | 30 0 21 | Nord. | |
| | Déc. | | | | | | | | | | |
| Rawak (îles des Papous). | 28. | 1 | Avant pôles changés... Après pôles changés... | N. S. | 14 16 20 14 27 41 | 0 11 21 ..... | ..... | 14 22 1 | 14 22 0 | Nord. | |
| | 28. | 1 | Avant pôles changés... Après pôles changés... | N. S. | 14 16 0 14 35 40 | 0 19 40 ..... | ..... | 14 25 50 | 14 25 50 | Nord. | |
| | 28. | 1 | Avant pôles changés... Après pôles changés... | N. S. | 14 11 10 14 32 47 | 0 22 36 ..... | ..... | 14 21 29 | 14 21 29 | Nord. | |
| | 1819. Janvier. | | | | | | | | | | |
| Traversée de Rawak à Guam. | 27. | 5 | Avant pôles changés... Après pôles changés... | S. N. | 9 25 30 6 6 42 | 3 18 48 ..... | ..... | 7 46 6 | 7 46 6 | Nord. | |
| | Février. | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | Sans changer les pôles. | N. | 12 53 42 | ..... | 1 37 47 1 3 4 | 14 31 29 13 56 40 | 14 14 7 | Nord. | |
| | | | Sans changer les pôles. | N. | 12 50 18 | ..... | 1 37 49 1 3 4 | 14 28 7 13 53 22 | 14 10 47 | Nord. | |
| | | | Moyenne.... |  |  | ..... | ..... | ..... | 14 12 27 | | |

| LIEU où l'observation a été faite. | DATE. | Numéro de l'aiguille. | INCLINAISON OBSERVÉE. | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|--|-------------------|---------------------------|-----------------------------|-----------------------------------|----------------------------------|-----------|-------------|-----------|----------------------------|------------|
| | | | NATURE de l'observation. | POINTE LOUPADE. l'observation. | RÉSULTAT de l'observation. | OBSERVÉE. | CALCULÉE. | CORRIGÉE. | MOTTEUSE et définitive. | |
| Saite. Traversée de Rawak à Guam. | 1819. Février. | Sans changer les pôles. | N. | 15°20'30" | ..... | 1°36'45" | 16°57'15" | 16°40' 4" | Nord. | |
| | 12. | 5 Sans changer les pôles. | N. | 15 23 59 | ..... | 1 2 23 | 16 22 53 | | | Nord. |
| | | Moyenne.... | | | | 1 36 43 | 17 0 42 | 16 43 31 | | |
| | | | | | | 1 2 22 | 16 26 21 | | | |
| | | | | | | | | 16 41 47 | | |
| | 28. | 5 Sans changer les pôles. | N. | 12 32 4 | ..... | 1 37 56 | 14 10 0 | 13 52 36 | Nord. | |
| | | | | | | 1 3 9 | 13 35 13 | | | |
| | | | | | | 1 37 59 | 14 1 3 | 13 43 39 | Nord. | |
| | | Moyenne.... | | | | 1 3 11 | 13 26 15 | | | |
| | | | | | | | | 13 48 7 | | |
| Agagna (île Guam). | Mars. | Avant pôles changés... | N. | 7 37 16 | 1°49'53" | ..... | 6 42 19 | 6 42 19 | | |
| | | Après pôles changés... | S. | 5 47 23 | | | | | | |
| | 14. | 5 Avant pôles changés... | N. | 8 2 12 | 2 27 6 | ..... | 6 48 39 | 6 48 39 | Sud. | |
| | | Après pôles changés... | S. | 5 35 0 | | | | | | |
| | | Moyenne.... | | | | | | 6 45 29 | | |
| | Mai. | Avant pôles changés... | N. | 15 39 32 | 4 52 59 | ..... | 13 13 2 | 13 13 2 | Sud. | |
| | | Après pôles changés... | S. | 10 46 33 | | | | | | |
| | 6. | 4 Avant pôles changés... | N. | 15 31 18 | 4 53 12 | ..... | 13 4 42 | 13 4 42 | Sud. | |
| | | Après pôles changés... | S. | 10 38 6 | | | | | | |
| | | Moyenne.... | | | | | | 13 8 52 | | |
| Traversée de Guam aux îles Sandwich. | Juin. | Sans changer les pôles. | S. | 10 43 27 | ..... | 2 27 21 | 13 10 48 | 12 50 9 | Sud. | |
| | | | | | | 1 46 4 | 12 29 31 | | | |
| | 2. | 4 Sans changer les pôles. | S. | 10 17 54 | ..... | 2 28 4 | 12 45 58 | 12 25 3 | Sud. | |
| | | | | | | 1 46 14 | 12 4 8 | | | |
| | | Moyenne.... | | | | | | 12 37 36 | | |
| | | | | | | | | | | |
| | | Avant pôles changés... | N. | 26 5 22 | 2 23 28 | ..... | 24 53 38 | 24 53 38 | Sud. | |
| | | Après pôles changés... | S. | 23 41 54 | | | | | | |
| | 17. | 5 Avant pôles changés... | N. | 25 21 32 | 1 20 31 | ..... | 24 41 17 | 24 41 17 | Sud. | |
| | | Après pôles changés... | S. | 24 1 1 | | | | | | |
| | | Moyenne.... | | | | | | 24 47 27 | | |
| | | | | | | | | | | |
| | | Sans changer les pôles. | S. | 25 40 15 | ..... | 0 55 35 | 26 35 50 | 26 34 4 | Sud. | |
| | 18. | 5 Sans changer les pôles. | S. | 25 44 57 | ..... | 0 52 4 | 26 32 19 | | | |
| | | | | | | 0 55 33 | 26 40 30 | 26 38 44 | Sud. | |
| | | Moyenne.... | | | | 0 52 2 | 26 36 59 | | | |
| | | | | | | | | 26 36 24 | | |
| | | | | | | | | | | |
| | | Sans changer les pôles. | S. | 28 31 49 | ..... | 0 54 11 | 29 26 0 | 29 24 17 | Sud. | |
| | 19. | 5 Sans changer les pôles. | S. | 28 37 24 | ..... | 0 50 46 | 29 22 35 | | | |
| | | | | | | 0 54 8 | 29 31 32 | 29 29 49 | Sud. | |
| | | Moyenne.... | | | | 0 50 43 | 29 28 7 | | | |
| | | | | | | | | 29 27 3 | | |
| | | | | | | | | | | |
| | | Sans changer les pôles. | S. | 28 37 21 | ..... | 0 54 8 | 29 31 29 | 29 29 40 | Sud. | |
| | 22. | 5 Sans changer les pôles. | S. | 28 45 18 | ..... | 0 50 3 | 29 28 4 | | | |
| | | | | | | 0 54 4 | 29 39 22 | 29 37 39 | Sud. | |
| | | Moyenne.... | | | | 0 50 39 | 29 35 57 | | | |
| | | | | | | | | 0 0 0 | | |
| | | | | | | | | | | |
| | | Sans changer les pôles. | S. | 31 19 46 | ..... | 0 52 41 | 32 12 27 | 32 10 47 | Sud. | |
| | 24. | 5 Sans changer les pôles. | S. | 31 10 49 | ..... | 0 49 21 | 32 9 7 | | | |
| | | | | | | 0 52 46 | 32 3 35 | 32 1 54 | Sud. | |
| | | Moyenne.... | | | | 0 49 25 | 32 0 14 | | | |
| | | | | | | | | 32 6 20 | | |

| LIEU où l'observation a été faite. | DATE. | NUMÉRO DE L'ARGOULE. | INCLINAISON OBSERVÉE. | | | ERREUR D'ÉQUILIBRATION | INCLINAISON | | POINTE élevée. | REMARQUES. |
|---|----------------|----------------------|-----------------------------|-------------------------------------|------------------------|---------------------------|-------------|-----------|---------------------------|------------|
| | | | NATURE de l'observation. | POINTE LONGUE. de l'observation. | RÉSULTATS observée. | | calculée. | CORRIGÉE. | MOYENNE et définitive. | |
| Saite. Traversée de Guam aux îles Sandwich. | 1819. Juin. | | Avant pôles changés... | S. 32°48'42" | 1°40'44" | ..... | 33°39' 4" | 33°39' 4" | Sud. | |
| | | 5 | Après pôles changés... | N. 34 29 26 | | | | | | |
| | 26. | | Avant pôles changés... | S. 32 40 59 | 1 31 53 | ..... | 33 26 56 | 33 26 56 | Sud. | |
| | | 5 | Après pôles changés... | N. 34 12 52 | | | | | | |
| | 29. | | Moyenne.... | | | | | | 33 33 0 | |
| | | 5 | Sans changer les pôles. | N. 35 26 48 | | 0°47' 4" | 34 39 44 | 34 48 55 | Sud. | |
| | . | | | | | 0 28 42 | 34 58 6 | | | |
| | | 5 | Sans changer les pôles. | N. 35 40 44 | | 0 46 56 | 34 53 48 | 35 2 57 | Sud. | |
| | . | | Moyenne.... | | | 0 28 37 | 35 12 7 | | | |
| | | 5 | | | | | | | 34 55 56 | |
| | Juillet. | | Sans changer les pôles. | N. 39 54 27 | | 0 44 19 | 39 10 8 | 39 18 47 | Sud. | |
| | | 5 | | | | 0 27 1 | 39 27 26 | | | |
| | 2. | | Sans changer les pôles. | N. 39 42 3 | | 0 44 21 | 38 57 42 | 39 6 19 | Sud. | |
| | | 5 | | | | 0 27 6 | 39 14 57 | | | |
| | 3. | | Moyenne.... | | | | | | 39 12 33 | |
| | | 5 | Sans changer les pôles. | N. 41 58 52 | | 0 42 57 | 41 15 55 | 41 24 18 | Sud. | |
| | 4. | | | | | 0 26 11 | 41 32 41 | | | |
| | | 5 | Sans changer les pôles. | N. 42 10 39 | | 0 42 49 | 41 27 50 | 41 36 11 | Sud. | |
| | . | | Moyenne.... | | | 0 26 6 | 41 44 33 | | | |
| | | 5 | | | | | | | 41 30 15 | |
| | 5. | | Sans changer les pôles. | N. 43 22 14 | | 0 42 0 | 42 40 14 | 42 48 26 | Sud. | |
| | | 5 | | | | 0 25 36 | 42 56 38 | | | |
| | 6. | | Sans changer les pôles. | N. 43 18 44 | | 0 42 2 | 42 36 42 | 42 44 54 | Sud. | |
| | | 5 | | | | 0 25 38 | 42 53 6 | | | |
| | . | | Moyenne.... | | | | | | 42 46 40 | |
| | | 5 | Sans changer les pôles. | N. 45 44 3 | | 0 40 20 | 45 3 43 | 45 11 35 | Sud. | |
| | . | | | | | 0 24 35 | 45 19 28 | | | |
| | | 5 | Sans changer les pôles. | N. 45 47 55 | | 0 40 17 | 45 7 38 | 45 15 30 | Sud. | |
| | . | | Moyenne.... | | | 0 24 33 | 45 23 22 | | | |
| | | 5 | | | | | | | 45 13 32 | |
| | . | | Sans changer les pôles. | N. 46 29 2 | | 0 39 47 | 45 49 15 | 45 57 1 | Sud. | |
| | | 5 | | | | 0 24 15 | 46 4 47 | | | |
| | . | | Sans changer les pôles. | N. 46 27 58 | | 0 39 48 | 45 48 10 | 45 55 56 | Sud. | |
| | | 5 | | | | 0 24 16 | 46 3 42 | | | |
| | . | | Moyenne.... | | | | | | 45 56 28 | |
| | | 5 | Sans changer les pôles. | N. 45 54 17 | | 0 40 12 | 45 14 5 | 45 21 56 | Sud. | |
| | . | | | | | 0 24 30 | 45 29 47 | | | |
| | | 5 | Sans changer les pôles. | N. 46 0 29 | | 0 40 8 | 45 20 21 | 45 28 11 | Sud. | |
| | . | | Moyenne.... | | | 0 24 28 | 45 36 1 | | | |
| | | 5 | | | | | | | 45 25 3 | |
| | . | | Sans changer les pôles. | N. 47 39 36 | | 0 38 55 | 47 0 41 | 47 8 17 | Sud. | |
| | | 5 | | | | 0 23 43 | 47 15 53 | | | |
| | . | | Sans changer les pôles. | N. 47 47 6 | | 0 38 49 | 47 8 17 | 47 15 51 | Sud. | |
| | | 5 | | | | 0 23 40 | 47 23 26 | | | |
| | . | | Moyenne.... | | | | | | 47 12 4 | |
| | | 5 | Avant pôles changés... | N. 48 54 39 | 1 2 43 | ..... | 48 23 18 | 48 23 18 | Sud. | |
| | . | | Après pôles changés... | S. 47 51 56 | | | | | | |
| | | 5 | Avant pôles changés... | N. 48 57 50 | 0 30 33 | ..... | 48 42 33 | 48 42 33 | Sud. | |
| | . | | Après pôles changés... | S. 48 27 17 | | | | | | |
| | | 5 | | | | | | | 48 32 55 | |

| LIEU où l'observation a été faite. | DATE. | NOMBRE DE L'ARCUEILLE. | INCLINAISON OBSERVÉE. | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTÉ élevée. | REMARQUES. |
|---|-------|------------------------|------------------------------|----------------|--------------------------------|-------------------------------|---------------------------------|-----------|---------------------------|------------|
| | | | INDIGNE de l'observation. | POINTÉ LOURDE. | RÉSULTATS de l'observation. | observée. | calculée. | CORRIGÉE. | MOYENNE et définitive. | |
| <i>Suite.</i> Traversée de Guam aux îles Sandwich. | 1819. | | Sans changer les pôles. | S. | 50°27'22" | 0°22'25" | 50°49'47" | 50°48' 3" | Sud. | |
| | 10. | 5. | Sans changer les pôles. | S. | 50 24 42 | 0 18 57 0 22 27 0 18 58 | 50 46 19 50 47 9 50 43 40 | 50 45 24 | Sud. | |
| | | | Moyenne.... | | | | | 50 46 43 | | |
| | | | Sans changer les pôles. | S. | 52 6 26 | 0 21 38 0 18 17 | 52 28 4 52 24 43 | 52 26 23 | Sud. | |
| | 11. | 5. | Sans changer les pôles. | S. | 52 18 45 | 0 21 32 0 18 12 | 52 40 17 52 36 57 | 52 38 37 | Sud. | |
| | | | Moyenne.... | | | | | 52 32 30 | | |
| | | | Sans changer les pôles. | S. | 52 39 25 | 0 21 22 0 18 6 | 53 0 47 52 57 31 | 52 59 9 | Sud. | |
| | 12. | 5. | Sans changer les pôles. | S. | 52 34 3 | 0 21 25 0 18 6 | 52 55 28 52 52 9 | 52 53 48 | Sud. | |
| | | | Moyenne.... | | | | | 52 56 28 | | |
| | | | Sans changer les pôles. | S. | 53 15 40 | 0 21 4 0 17 40 | 53 36 44 53 33 29 | 53 35 6 | Sud. | |
| | 13. | 5. | Sans changer les pôles. | S. | 53 12 23 | 0 21 6 0 17 50 | 53 33 29 53 30 13 | 53 51 51 | Sud. | |
| | | | Moyenne.... | | | | | 53 43 28 | | |
| | | | Sans changer les pôles. | S. | 53 47 6 | 0 20 48 0 17 35 | 54 7 54 54 4 41 | 54 6 17 | Sud. | |
| | 14. | 5. | Sans changer les pôles. | S. | 53 50 39 | 0 20 47 0 17 34 | 54 11 26 54 8 13 | 54 9 49 | Sud. | |
| | | | Moyenne.... | | | | | 54 8 3 | | |
| | | | Sans changer les pôles. | S. | 54 38 29 | 0 20 23 0 17 14 | 54 58 52 54 55 43 | 54 57 17 | Sud. | |
| | 15. | 5. | Sans changer les pôles. | S. | 54 46 24 | 0 20 19 0 17 10 | 55 6 43 55 3 34 | 55 5 8 | Sud. | |
| | | | Moyenne.... | | | | | 55 1 12 | | |
| | | | Sans changer les pôles. | S. | 54 58 44 | 0 20 13 0 17 5 | 55 18 57 55 15 49 | 55 17 23 | Sud. | |
| | 16. | 5. | Sans changer les pôles. | S. | 54 47 28 | 0 20 18 0 17 10 | 55 7 46 55 4 38 | 55 6 12 | Sud. | |
| | | | Moyenne.... | | | | | 55 11 47 | | |
| | | | Sans changer les pôles. | S. | 57 50 39 | 0 18 45 0 15 51 | 58 9 24 58 6 30 | 58 7 57 | Sud. | |
| | 18. | 5. | Sans changer les pôles. | S. | 57 50 6 | 0 18 45 0 15 51 | 58 8 51 58 5 57 | 58 7 24 | Sud. | |
| | | | Moyenne.... | | | | | 58 7 40 | | |
| | | | Avant pôles changés... | S. | 59 3 1 | 0°27'10" | 59 16 36 | 59 16 36 | Sud. | |
| | 19. | 5. | Après pôles changés... | N. | 59 30 11 | | | | | |
| | | | Avant pôles changés... | S. | 59 0 36 | 0 33 40 | 59 17 26 | 59 17 26 | Sud. | |
| | | | Après pôles changés... | N. | 59 34 16 | | | | | |
| | | | Moyenne.... | | | | | 59 17 1 | | |
| | | | Sans changer les pôles. | N. | 60 19 30 | 0 14 44 0 25 13 | 60 4 46 59 54 17 | 59 59 31 | Sud. | |
| | 20. | 5. | Sans changer les pôles. | N. | 60 28 4 | 0 14 41 0 25 6 | 60 13 23 60 2 58 | 60 8 10 | Sud. | |
| | | | Moyenne.... | | | | | 60 3 50 | | |

VOYAGE AUTOUR DU MONDE.

| LIEU où l'observation a été faite. | DATE. | NOMBRE DE L'ACCOULAN. | INCLINAISON OBSERVÉE. | | ERREUR d'équilibration | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|--|----------------------------|-----------------------|-----------------------------|--------------|--------------------------------|-----------|---------------------|-----------------------|---------------------------|------------|
| | | | INDICE de l'observation. | POINTE LOUDE | RÉSULTATS de l'observation. | observée. | calculée. | CORRIGÉE. | MOYENNE et définitive. | |
| Suite. Traversée de Guam aux îles Sandwich. | 1819. | Juillet. | Sans changer les pôles. | N. | 59°51'24" | ..... | 0°14'57" 0 25 34 | 59°36'27" 59 25 50 | 59°31' 8" 59 30 30 | Sud. |
| | 21. | 5. | Sans changer les pôles. | N. | 59 50 46 | ..... | 0 14 57 0 25 35 | 59 35 49 59 25 11 | 59 30 49 | Sud. |
| | | | Moyenne.... | | | | | | | |
| | | | Sans changer les pôles. | N. | 59 32 40 | ..... | 0 15 5 0 25 49 | 59 17 35 59 6 51 | 59 12 13 | Sud. |
| | 22. | 5. | Sans changer les pôles. | N. | 59 6 48 | ..... | 0 15 17 0 26 9 | 58 51 31 58 40 39 | 58 46 5 | Sud. |
| | | | Moyenne.... | | | | | | 58 59 9 | |
| | | | Sans changer les pôles. | N. | 59 20 47 | ..... | 0 15 11 0 25 58 | 59 5 36 58 54 49 | 59 0 12 | Sud. |
| | 23. | 5. | Sans changer les pôles. | N. | 59 21 34 | ..... | 0 15 10 0 25 57 | 59 6 24 58 55 37 | 59 1 0 | Sud. |
| | | | Moyenne.... | | | | | | 59 0 36 | |
| | | | Sans changer les pôles. | N. | 58 41 52 | ..... | 0 15 28 0 26 28 | 58 26 24 58 15 24 | 58 20 54 | Sud. |
| | 24. | 5. | Sans changer les pôles. | N. | 58 35 13 | ..... | 0 15 31 0 26 33 | 58 19 42 58 8 40 | 58 14 11 | Sud. |
| | | | Moyenne.... | | | | | | 58 17 32 | |
| | | | Sans changer les pôles. | N. | 59 27 20 | ..... | 0 15 8 0 25 53 | 59 12 12 59 1 27 | 59 6 49 | Sud. |
| | 25. | 5. | Sans changer les pôles. | N. | 59 27 8 | ..... | 0 15 8 0 25 53 | 59 12 0 59 1 15 | 59 6 37 | Sud. |
| | | | Moyenne.... | | | | | | 59 6 43 | |
| | | | Avant pôles changés... | N. | 59 41 44 | 0°52'39" | ..... | 59 15 25 | 59 15 25 | Sud. |
| | | | Après pôles changés... | S. | 58 49 5 | | | | | |
| | 26. | 5. | Avant pôles changés... | N. | 59 34 47 | 0 51 40 | ..... | 59 8 57 | 59 8 57 | Sud. |
| | | | Après pôles changés... | S. | 58 43 7 | | | | | |
| | | | Moyenne.... | | | | | | 59 12 11 | |
| | | | Sans changer les pôles. | S. | 56 42 59 | ..... | 0 27 57 0 23 39 | 57 10 56 57 6 38 | 57 8 47 | Sud. |
| | 28. | 5. | Sans changer les pôles. | S. | 56 33 0 | ..... | 0 28 04 0 23 46 | 57 1 4 50 56 46 | 56 58 55 | Sud. |
| | | | Moyenne.... | | | | | | 57 3 51 | |
| | | | Sans changer les pôles. | S. | 53 32 34 | ..... | 0 30 16 0 25 37 | 54 2 50 53 58 11 | 54 0 30 | Sud. |
| | 30. | 5. | Sans changer les pôles. | S. | 53 19 4 | ..... | 0 30 25 0 25 45 | 53 49 29 53 44 49 | 53 47 9 | Sud. |
| | | | Moyenne.... | | | | | | 53 53 49 | |
| | | | Sans changer les pôles. | S. | 51 51 14 | ..... | 0 31 27 0 26 38 | 52 22 41 52 17 52 | 52 20 16 | Sud. |
| | 31. | 5. | Sans changer les pôles. | S. | 52 6 30 | ..... | 0 31 17 0 26 29 | 52 37 47 52 32 59 | 52 35 23 | Sud. |
| | | | Moyenne.... | | | | | | 52 27 49 | |
| | Août. 1 ^{er} . | 5. | Sans changer les pôles. | S. | 49 30 22 | ..... | 0 33 4 0 28 0 | 50 3 26 49 58 22 | 50 0 54 | Sud. |
| | | | Sans changer les pôles. | S. | 49 14 23 | ..... | 0 33 15 0 28 9 | 49 47 38 49 42 32 | 49 45 5 | Sud. |
| | | | Moyenne.... | | | | | | 49 52 59 | |

| LIEU où l'observation a été faite. | DATE. | NUMÉRO DE L'AIGUILLE. | INCLINAISON OBSERVÉE. | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|--|----------------|-----------------------|-----------------------------|----------------------------------|---------------------------|----------------------|-----------------------|---------------------------|-------------------|------------|
| | | | INDICE de l'observation. | POINTE LOUEDE. l'observation. | observé. | calculé. | corrigeé. | MOYENNE et définitive. | | |
| Suite. Traversée de Guam aux îles Sandwich. | 1819. Août. | | Sans changer les pôles. | S. 47° 6'46" | 0°34'39" 0 29 20 | 47°41'25" 47 36 6 | 47°38'45" 47 24 32 | Sud. | | |
| Grand Océan boréal. | 2. | 5. | Sans changer les pôles. | S. 46 52 24 | 0 34 49 0 29 28 | 47 27 13 47 21 52 | | | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 47 31 38 | | |
| | | | Sans changer les pôles. | S. 44 47 21 | 0 36 9 0 30 36 | 45 23 30 45 17 57 | 45 20 43 | Sud. | | |
| | 3. | 5. | Sans changer les pôles. | S. 44 50 21 | 0 36 7 0 30 34 | 45 26 28 45 20 55 | 45 23 41 | Sud. | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 45 22 12 | | |
| | | | Avant pôles changés... | S. 40 40 30 | 1° 1' 0" | ..... | 41 11 0 | 41 11 0 | Sud. | |
| | | | Après pôles changés... | N. 41 41 30 | ..... | ..... | ..... |  |  |  |
| | 4. | 5. | Avant pôles changés... | S. 40 26 2 | 1 8 58 | ..... | 41 0 31 | 41 0 31 | Sud. | |
| | | | Après pôles changés... | N. 41 35 0 | ..... | ..... | ..... | 41 5 45 | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... |  |  |  |
| | | | Sans changer les pôles. | N. 41 0 7 | 0 32 32 0 41 52 | 40 27 35 40 18 15 | 40 22 55 | Sud. | | |
| | 5. | 5. | Sans changer les pôles. | N. 41 7 33 | 0 32 28 0 41 47 | 40 35 5 40 25 46 | 40 30 25 | Sud. | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 40 26 40 | | |
| | | | Sans changer les pôles. | N. 42 13 51 | 0 31 55 0 41 5 | 41 41 56 41 32 46 | 41 37 21 | Sud. | | |
| | 6. | 5. | Sans changer les pôles. | N. 42 28 31 | 0 31 48 0 40 55 | 41 56 43 41 47 36 | 41 52 0 | Sud. | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 41 44 45 | | |
| | | | Sans changer les pôles. | N. 41 33 14 | 0 32 16 0 41 31 | 41 0 58 40 51 43 | 40 56 20 | Sud. | | |
| Iles Sandwich à la baie de Kayakakoua. | 9. | 5. | Sans changer les pôles. | N. 41 7 57 | 0 32 28 0 41 47 | 40 35 29 40 26 10 | 40 30 49 | Sud. | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 40 43 34 | | |
| | | | Avant pôles changés... | S. 39 10 37 | 4 0 57 | ..... | 41 11 6 | 41 11 06 | Sud. | |
| | | | Après pôles changés... | N. 43 11 34 | ..... | ..... | ..... |  |  |  |
| | Idem. | 0. | Avant pôles changés... | S. 39 8 48 | 4 3 43 | ..... | 41 10 39 | 41 10 39 | Sud. | |
| | | | Après pôles changés... | N. 43 12 31 | ..... | ..... | ..... | 41 10 52 | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... |  |  |  |
| | | | Avant pôles changés... | S. 39 7 58 | 3 59 3 | ..... | 41 7 3 | 41 7 3 | Sud. | |
| | | | Après pôles changés... | N. 43 7 1 | ..... | ..... | ..... |  |  |  |
| | Idem. | 0. | Avant pôles changés... | S. 39 5 46 | 4 1 3 | ..... | 41 6 17 | 41 6 17 | Sud. | |
| | | | Après pôles changés... | N. 43 6 49 | ..... | ..... | ..... | 41 6 40 | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... |  |  |  |
| | | | Sans changer les pôles. | N. 44 3 54 | 1 55 4 1 36 56 | 42 4 50 42 26 58 | 42 15 54 | Sud. | | |
| Observatoire à la baie de Koai-hai. | 13. | 0. | Sans changer les pôles. | N. 43 57 7 | 1 55 17 1 37 7 | 42 1 50 42 20 0 | 42 10 55 | Sud. | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 42 13 24 | | |
| | | | Avant pôles changés... | N. 43 31 12 | 3 23 18 | ..... | 41 49 33 | 41 49 33 | Sud. | |
| Observatoire au village de Rabeina (île Mowï). | 18. | 0. | Après pôles changés... | S. 40 7 54 | ..... | ..... | ..... |  |  |  |
| | | | Avant pôles changés... | N. 43 27 9 | 3 18 54 | ..... | 41 47 42 | 41 47 42 | Sud. | |
| | | | Après pôles changés... | S. 40 8 15 | ..... | ..... | ..... | 41 48 37 | | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... |  |  |  |

VOYAGE AUTOEUR DU MONDE.

| LIEU où l'observation a été faite. | DATE. | NUMÉRO DE L'AIGUILLE. | INCLINAISON OBSERVÉE. | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|--|-------------------|-----------------------|---|---------------------------------|---------------------------|------------------------------|----------------------------------|---------------------------|-------------------|------------|
| | | | INDEX de l'observation. | POINTE LOINDE l'observation. | RÉSULTATS observée. | calculée. | CORRIGÉE. | MOYENNE et définitive. | | |
| Suite. Traversée de Guam aux îles Sandwich. | 1819. Août. | | Avant pôles changés... Après pôles changés... | N. 42° 26' 11" S. 41 8 16 | 1° 17' 55" | ..... | 41° 47' 13" | 41° 47' 13" | Sud. | |
| Observatoire au village de Raheina (île Mowï). | 19 et 20. | 5. | Avant pôles changés... Après pôles changés... Moyenne.... | N. 42 14 7 S. 40 46 12 | 1 27 55 | ..... | 41 30 9 | 41 30 9 | Sud. | |
| | 22. | 4. | Avant pôles changés... Après pôles changés... | S. 40 16 55 N. 42 58 19 | 2 41 24 | ..... | 41 37 37 | 41 37 37 | Sud. | |
| Traversée des îles Sandwich au Port-Jackson. | Sept. | | Sans changer les pôles. | S. 40 26 49 | ..... | 0° 42' 13" | 41 9 2 | 41 11 54 | Sud. | |
| | 1 ^{er} . | 5. | Sans changer les pôles. | S. 40 48 13 | ..... | 0 47 58 0 42 0 0 47 43 | 41 14 47 41 30 13 41 35 56 | 41 33 4 | Sud. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 41 22 29 | | |
| | | | Sans changer les pôles. | S. 39 51 42 | ..... | 0 42 35 0 48 23 | 40 34 17 40 40 5 | 40 37 11 | Sud. | |
| | 3. | 5. | Sans changer les pôles. | S. 40 2 49 | ..... | 0 42 28 0 48 15 | 40 45 17 40 51 4 | 40 48 10 | Sud. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 40 42 40 | | |
| | | | Sans changer les pôles. | S. 39 6 3 | ..... | 0 43 3 0 48 55 | 39 49 6 39 54 58 | 39 52 2 | Sud. | |
| | 5. | 5. | Sans changer les pôles. | S. 39 4 23 | ..... | 0 43 4 0 48 56 | 39 47 27 39 53 19 | 39 50 23 | Sud. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 39 51 12 | | |
| | | | Sans changer les pôles. | S. 36 28 4 | ..... | 0 44 37 0 50 41 | 37 12 41 37 18 45 | 37 15 43 | Sud. | |
| | 6. | 5. | Sans changer les pôles. | S. 36 15 54 | ..... | 0 44 44 0 50 49 | 37 0 38 37 6 43 | 37 3 40 | Sud. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 37 9 41 | | |
| | | | Sans changer les pôles. | S. 34 42 48 | ..... | 0 45 36 0 51 49 | 35 28 24 35 34 37 | 35 31 30 | Sud. | |
| | 7. | 5. | Sans changer les pôles. | S. 34 30 23 | ..... | 0 45 43 0 51 57 | 35 16 6 35 22 20 | 35 19 13 | Sud. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 35 25 22 | | |
| | | | Sans changer les pôles. | S. 29 37 20 | ..... | 0 48 14 0 54 48 | 30 25 34 30 32 8 | 30 28 51 | Sud. | |
| | 9. | 5. | Sans changer les pôles. | S. 29 40 31 | ..... | 0 48 12 0 54 46 | 30 28 43 30 35 17 | 30 32 0 | Sud. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 30 30 25 | | |
| | | | Avant pôles changés... Après pôles changés... | S. 26 42 13 N. 28 22 39 | 1 40 26 | ..... | 27 32 26 | 27 32 26 | Sud. | |
| | 11. | 5. | Avant pôles changés... Après pôles changés... | S. 26 32 14 N. 28 35 20 | 2 3 6 | ..... | 27 33 47 | 27 33 47 | Sud. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 27 33 6 | | |
| | | | Sans changer les pôles. | N. 28 54 37 | ..... | 0 55 11 1 19 30 | 27 59 26 27 35 7 | 27 47 16 | Sud. | |
| | 13. | 5. | Sans changer les pôles. | N. 29 1 46 | ..... | 0 55 7 1 19 25 | 28 6 30 27 42 21 | 27 54 30 | Sud. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | 27 50 53 | | |

| LIEU où l'observation a été faite. | DATE. | NOMME DE L'AUTELLE. | INCLINAISON OBSERVÉE. | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|---|----------------|---------------------|-----------------------------|----------------|--------------------------------|-----------|-------------|-----------|---------------------------|------------|
| | | | NATURE de l'observation. | POINTE LOINDE. | RÉSULTATS de l'observation. | observée. | calculée. | CORRIGÉE. | MOYENNE et définitive. | |
| Suite. Traversée des îles Sandwich au Port-Jackson. | 1819. Sept. | | Sans changer les pôles. | N. | 26°26'52" | ..... | 0°56'26" | 25°30'26" | 25°17'59" | Sud. |
| | 15. | 5. | Sans changer les pôles. | N. | 26 32 2 | ..... | 0 56 25 | 25 35 37 | 25 23 11 | Sud. |
| | | | Moyenne.... |  |  | ..... | ..... | ..... | 25 20 35 | |
| | | | Sans changer les pôles. | N. | 26 16 47 | ..... | 0 56 31 | 25 20 16 | 25 7 48 | Sud. |
| | 16. | 5. | Sans changer les pôles. | N. | 26 19 19 | ..... | 0 56 30 | 25 22 49 | 25 10 21 | Sud. |
| | | | Moyenne.... |  |  | ..... | ..... | ..... | 25 9 4 | |
| | | | Sans changer les pôles. | N. | 23 40 36 | ..... | 0 57 44 | 22 42 52 | 22 30 8 | Sud. |
| | 18. | 5. | Sans changer les pôles. | N. | 23 42 54 | ..... | 0 57 43 | 22 45 11 | 22 32 28 | Sud. |
| | | | Moyenne.... |  |  | ..... | ..... | ..... | 22 31 18 | |
| | | | Sans changer les pôles. | N. | 23 32 1 | ..... | 0 57 47 | 22 34 14 | 22 21 29 | Sud. |
| | 23. | 5. | Sans changer les pôles. | N. | 23 35 56 | ..... | 0 57 46 | 22 38 10 | 22 25 28 | Sud. |
| | | | Moyenne.... |  |  | ..... | ..... | ..... | 22 23 28 | |
| | | | Sans changer les pôles. | N. | 24 13 7 | ..... | 0 57 29 | 23 15 38 | 23 2 57 | Sud. |
| | 24. | 5. | Sans changer les pôles. | N. | 24 7 7 | ..... | 0 57 32 | 23 9 35 | 22 56 54 | Sud. |
| | | | Moyenne.... |  |  | ..... | ..... | ..... | 22 59 55 | |
| | | | Sans changer les pôles. | N. | 21 59 56 | ..... | 0 58 26 | 21 1 30 | 20 48 36 | Sud. |
| | 26. | 5. | Sans changer les pôles. | N. | 22 13 11 | ..... | 0 58 21 | 21 14 50 | 21 1 58 | Sud. |
| | | | Moyenne.... |  |  | ..... | ..... | ..... | 20 55 17 | |
| | | | Sans changer les pôles. | N. | 21 56 31 | ..... | 0 58 28 | 20 58 3 | 20 45 9 | Sud. |
| | 27. | 5. | Sans changer les pôles. | N. | 21 59 41 | ..... | 0 58 35 | 21 1 6 | 20 48 17 | Sud. |
| | | | Moyenne.... |  |  | ..... | ..... | ..... | 20 46 43 | |
| | | | Avant pôles changés... | N. | 20 20 17 | 2°57'51" | ..... | 18 51 22 | 18 51 22 | Sud. |
| | | | Après pôles changés... | S. | 17 22 26 | | | | | |
| | | | Avant pôles changés... | N. | 20 5 14 | 2 46 7 | ..... | 18 42 10 | 18 42 10 | Sud. |
| | | | Après pôles changés... | S. | 17 19 7 | | | | | |
| | 30. | 5. | Avant pôles changés... | S. | 12 22 26 | 2 32 48 | ..... | 18 38 50 | 18 38 50 | Sud. |
| | | | Après pôles changés... | N. | 19 55 14 | | | | | |
| | | | Avant pôles changés... | S. | 17 19 7 | 2 49 35 | ..... | 18 43 54 | 18 43 54 | Sud. |
| | | | Après pôles changés... | N. | 20 8 42 | | | | | |
| | | | Moyenne.... |  |  | ..... | ..... | ..... | 18 44 4 | |
| | Octobre | | Sans changer les pôles. | N. | 18 42 33 | ..... | 1 20 35 | 17 21 58 | 17 24 41 | Sud. |
| | | 5. | Sans changer les pôles. | N. | 18 53 4 | ..... | 1 15 19 | 17 27 24 | | |
| | | | Moyenne.... |  |  | ..... | ..... | 17 35 17 | | Sud. |
|  |  |  |  |  |  | ..... | ..... | 17 29 59 | | |

| LIEU où l'observation a été faite. | DATE. | NUMÉRO DE L'ANNUAIRE. | INCLINAISON OBSERVÉE. | | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|---|------------------|-----------------------|-----------------------------|---------------|----------------------------------|-----------------------------|-----------------------|-------------|---------------------------|-------------------|------------|
| | | | NATURE de l'observation. | POINTE LOUDE. | RÉSULTAT de l'observation. | observée. | calculée. | CORRIGÉE. | MOTTEUR et définitive. | | |
| Suite. Traversée des îles Sandwich au Port-Jackson. | 1819. Octobre | | Sans changer les pôles. | N. | 16° 5'40" | 1°21'44" 1 16 14 | 14°43'56" 14 49 26 | 14°46'41" | Sud. | | |
| | 2. | 5. | Sans changer les pôles. | N. | 15 51 54 | 1 21 50 1 16 19 | 14 30 4 14 35 35 | 14 32 49 | Sud. | | |
| | | | Moyenne.... |  | ..... | ..... | ..... | 14 39 45 | | | |
| | | | Sans changer les pôles. | N. | 13 22 46 | 1 22 46 1 17 11 | 12 0 0 12 5 35 | 12 2 47 | Sud. | | |
| | 3. | 5. | Sans changer les pôles. | N. | 13 22 9 | 1 22 46 1 17 11 | 11 59 23 12 4 58 | 12 2 10 | Sud. | | |
| | | | Moyenne.... |  | ..... | ..... | ..... | 12 2 28 | | | |
| | | | Sans changer les pôles. | N. | 10 15 6 | 1 23 43 1 18 4 | 8 51 23 8 57 2 | 8 54 12 | Sud. | | |
| | 4. | 5. | Sans changer les pôles. | N. | 10 25 31 | 1 23 40 1 18 2 | 9 1 51 9 7 29 | 9 4 40 | Sud. | | |
| | | | Moyenne.... |  | ..... | ..... | ..... | 8 59 26 | | | |
| | | | Avant pôles changés... | N. | 8 17 41 | 2°53'56" | ..... | 6 50 43 | 6 50 43 | Sud. | |
| | | | Après pôles changés... | S. | 5 23 45 | ..... | ..... | 6 46 45 | 6 46 45 | Sud. | |
| | 5. | 5. | Avant pôles changés... | N. | 7 57 22 | 2 21 13 | ..... | 6 46 45 | 6 46 45 | Sud. | |
| | | | Après pôles changés... | S. | 5 36 9 | ..... | ..... | 6 48 44 | | | |
| | | | Moyenne.... |  | ..... | ..... | ..... |  |  |  |  |
| | | | Avant pôles changés... | S. | 3 12 24 | 2 16 55 | ..... | 4 20 52 | 4 20 52 | Sud. | |
| | | | Après pôles changés... | N. | 5 29 19 | ..... | ..... | 4 19 11 | 4 19 11 | Sud. | |
| | 6. | 5. | Avant pôles changés... | S. | 3 10 47 | 2 16 47 | ..... | 4 19 11 | 4 19 11 | Sud. | |
| | | | Après pôles changés... | N. | 5 27 34 | ..... | ..... | 4 20 1 | | | |
| | | | Moyenne.... |  | ..... | ..... | ..... |  |  |  |  |
| | | | Sans changer les pôles. | N. | 2 36 19 | 1 8 32 | 1 27 47 | 1 27 47 | Sud. | | |
| | | | Sans changer les pôles. | N. | 2 22 9 | 1 8 33 | 1 13 36 | 1 13 36 | Sud. | | |
| | 7. | 5. | Sans changer les pôles. | N. | 2 32 12 | 0 31 28 | 2 0 44 | 2 0 44 | Sud. | | |
| | | | Sans changer les pôles. | N. | 2 32 49 | 0 31 28 | 2 1 21 | 2 1 21 | Sud. | | |
| | | | Moyenne.... |  | ..... | ..... | ..... | 1 40 52 | | | |
| | | | Sans changer les pôles. | N. | 0 16 41 | 0 31 30 | 0 14 49 | 0 14 49 | Nord. | | |
| | | | Sans changer les pôles. | N. | 0 15 19 | 0 31 30 | 0 16 11 | 0 16 11 | Nord. | | |
| | 8. | 5. | Avant pôles changés... | N. | -0 27 37 N. | ..... | ..... | 0 9 45 | 0 9 45 | Nord. | |
| | | | Après pôles changés... | S. | +0 47 7 N. | 1 14 44 | ..... | 0 27 1 | 0 27 1 | Nord. | |
| | | | Avant pôles changés... | N. | -0 1 27 S. | 0 51 18 | ..... | 0 27 1 | | | |
| | | | Après pôles changés... | S. | +0 52 45 N. | ..... | ..... | 1 18 23 | | | |
| | | | Moyenne.... |  | ..... | ..... | ..... |  |  |  |  |
| | | | Sans changer les pôles. | S. | 0 28 22 | 0 31 30 | 0 3 8 | 0 28 12 | Sud. | | |
| | 9. | 5. | Sans changer les pôles. | S. | 0 22 2 | 1 21 38 | 0 53 16 | 0 28 12 | Sud. | | |
| | | | Moyenne.... |  | ..... | 0 31 30 | 0 9 28 | 0 34 32 | Sud. | | |
| | | | Avant pôles changés... | S. | -2 52 29 S. | 2 35 56 | ..... | 0 31 22 | | | |
| | | | Après pôles changés... | N. | +0 17 3 N. | ..... | 1 34 46 | 1 34 46 | Nord. | | |
| | 12. | 6. | Avant pôles changés... | S. | -2 46 6 S. | 2 30 7 | ..... | 1 31 2 | 1 31 2 | Nord. | |
| | | | Après pôles changés... | N. | -0 15 59 S. | ..... | 1 31 2 | | | | |
| | | | Moyenne.... |  | ..... | ..... | ..... | 1 32 54 | | | |

| LIEU où l'observation a été faite. | DATE. | NUMÉRO DE L'AIGUILLE. | INCLINAISON OBSERVÉE. | | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE dlevée. | REMARQUES. |
|--|------------------|-----------------------|--------------------------------|---------------|-----------------------------------|---------------------------|---------------------|----------------------|---------------------------|-------------------|------------|
| | | | NATURE de l'observation. | POINTE LOUDE. | RÉSULTATS de l'observation. | observée. | calculée. | CORRIGÉE. | MOYENNE et définitive. | | |
| Sailie. Traversée des îles Sandwich au Port-Jackson. | 1819. Octobre | | Sans changer les pôles. | N. | 1° 6' 5" | | 1°16'24" 1 41 37 | 0°10'19" 0 35 32 | 0°22'35" 0 44 32 | Nord. | |
| | | | Sans changer les pôles. | N. | 0 44 29 | ..... | 1 16 24 1 41 38 | 0 31 55 0 57 9 | 0 44 32 | | |
| | | | 13. 6. Avant pôles changés... | S. | +3 37 28 N. | 2°58'26" | | 2 8 15 | 2 8 15 | Nord. | |
| | | | Après pôles changés... | N. | -0 39 2 S. | ..... |  |  |  |  |  |
| | | | Avant pôles changés... | S. | +3 41 35 N. | 2 27 50 | | 2 27 40 | 2 27 40 | Nord. | |
| | | | Après pôles changés... | N. | -1 13 45 S. | ..... |  |  |  |  |  |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |
| | | | Sans changer les pôles. | N. | 5 5 44 | | 1 21 19 1 42 39 | 6 27 3 6 48 23 | 6 37 43 | Nord. | |
| | | | 14. 5. Sans changer les pôles. | N. | 4 56 51 | | 1 21 19 1 42 40 | 6 18 10 6 39 31 | 6 28 50 | Nord. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 6 33 10 | | |
| | | | Avant pôles changés... | N. | 9 37 24 | 3 17 54 | | 11 16 21 | 11 16 21 | Nord. | |
| | | | Après pôles changés... | S. | 12 55 18 | ..... |  |  |  |  |  |
| | | | Avant pôles changés... | N. | 9 39 20 | 3 20 49 | | 11 19 45 | 11 19 45 | Nord. | |
| | | | Après pôles changés... | S. | 13 0 9 | ..... |  |  |  |  |  |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 11 18 3 | | |
| | | | Sans changer les pôles. | N. | 16 46 6 | | 1 18 10 1 38 40 | 18 4 16 18 24 46 | 18 14 31 | Nord. | |
| | | | 18. 5. Sans changer les pôles. | N. | 16 58 34 | | 1 18 4 1 38 34 | 18 16 38 18 37 8 | 18 26 53 | Nord. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 18 20 42 | | |
| | | | Avant pôles changés... | N. | 20 2 41 | 3 23 40 | | 21 44 31 | 21 44 31 | Nord. | |
| | | | Après pôles changés... | S. | 23 26 21 | ..... |  |  |  |  |  |
| | | | Avant pôles changés... | N. | 20 22 2 | 2 59 4 | | 21 51 34 | 21 51 34 | Nord. | |
| | | | Après pôles changés... | S. | 23 21 6 | ..... |  |  |  |  |  |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 21 48 2 | | |
| | | | Avant pôles changés... | S. | 25 42 49 | 1 35 51 | | 24 54 53 | 24 54 53 | Nord. | |
| | | | Après pôles changés... | N. | 24 6 58 | ..... |  |  |  |  |  |
| | | | Avant pôles changés... | S. | 26 12 28 | 1 53 38 | | 25 15 39 | 25 15 39 | Nord. | |
| | | | Après pôles changés... | N. | 24 18 50 | ..... |  |  |  |  |  |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 25 5 16 | | |
| | | | Sans changer les pôles. | S. | 32 39 37 | | 1 26 45 0 59 21 | 31 12 52 31 40 16 | 31 26 34 | Nord. | |
| | | | 22. 5. Sans changer les pôles. | S. | 32 31 19 | | 1 26 54 0 59 27 | 31 4 25 31 31 52 | 31 18 8 | Nord. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 31 22 21 | | |
| | | | Sans changer les pôles. | N. | 33 19 13 | | 0 48 20 1 4 10 | 34 7 33 34 23 33 | 34 15 33 | Nord. | |
| | | | 23. 6. Sans changer les pôles. | N. | 33 17 34 | | 0 48 21 1 4 11 | 34 5 55 34 21 45 | 34 13 50 | Nord. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 34 14 41 | | |
| | | | Avant pôles changés... | S. | 37 51 36 | 1 54 2 | | 36 54 35 | 36 54 35 | Nord. | |
| | | | Après pôles changés... | N. | 35 57 34 | ..... |  |  |  |  |  |
| | | | Avant pôles changés... | S. | 37 54 35 | 1 51 23 | | 36 58 53 | 36 58 53 | Nord. | |
| | | | Après pôles changés... | N. | 36 3 12 | ..... |  |  |  |  |  |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 36 56 44 | | |

VOYAGE AUTOUR DU MONDE.

| LIEU où l'observation a été faite. | DATE. | NOMBRE DE L'AIGUILLE. | INCLINAISON OBSERVÉE. | | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|--|-------------------|-----------------------|-----------------------------|----------------------------------|--------------------------------|---------------------------|---|--|---------------------------|-------------------|---|
| | | | NATURE de l'observation. | POINTE LONGUE. l'observation. | RÉSULTATS de l'observation. | observée. | calculée. | corrigée. | MOYENNE et définitive. | | |
| <i>Saite. Traversée des îles Sandwich au Port-Jackson.</i> | 1819. Octobre | | Sans changer les pôles. | N. | 30°15'45" | ..... | 0°44'47" 0 59 27 0 44 41 0 59 20 | 40° 0'32" 40 15 12 40 8 54 40 23 33 | 40° 7'52" 40 16 13 | Nord. | |
| | 26. | 6. | Sans changer les pôles. | N. | 39 24 13 | ..... |  |  | 40 12 2 | | |
| | | | Moyenne.... |  | ..... | ..... |  |  |  |  |  |
| | | | Avant pôles changés... | N. | 42 3 49 | 1°42'27" | | 42 55 2 | 42 55 2 | Nord. | |
| | | | Après pôles changés... | S. | 43 46 16 | | | | | | |
| | 28. | 6. | Avant pôles changés... | N. | 42 2 7 | 2 2 14 | | 43 3 14 | 43 3 14 | Nord. | |
| | | | Après pôles changés... | S. | 44 4 21 | | | | | | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 42 59 8 | | |
| | | | Avant pôles changés... | N. | 43 0 54 | 1 49 5 | | 43 55 27 | 43 55 27 | Nord. | |
| | | | Après pôles changés... | S. | 44 49 59 | | | | | | |
| | 29. | 5. | Avant pôles changés... | N. | 43 5 26 | 1 51 11 | | 44 1 2 | 44 1 2 | Nord. | |
| | | | Après pôles changés... | S. | 44 56 37 | | | | | | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 43 58 14 | | |
| | | | Sans changer les pôles. | S. | 46 43 11 | ..... | 0 52 38 | 45 50 33 | 45 50 33 | Nord. | |
| | 30. | 6. | Sans changer les pôles. | S. | 46 55 2 | ..... | 0 52 27 | 46 2 35 | 46 2 35 | Nord. | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 45 56 34 | | |
| | | | Sans changer les pôles. | S. | 49 35 49 | ..... | 0 49 46 | 48 46 3 | 48 46 3 | Nord. | |
| | 31. | 6. | Sans changer les pôles. | S. | 49 36 47 | ..... | 0 49 45 | 48 47 2 | 48 47 2 | Nord. | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 48 46 32 | | |
| | Nov. | | Sans changer les pôles. | S. | 52 10 57 | ..... | 0 46 55 0 31 7 | 51 24 2 51 39 50 | 51 39 50 | Nord. | |
| | 1 ^{er} . | 5. | Sans changer les pôles. | S. | 52 4 16 | ..... | 0 47 2 0 31 12 | 51 17 14 51 33 4 | 51 25 9 | Nord. | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 51 32 29 | | |
| | | | Avant pôles changés... | S. | 54 19 38 | 0 58 3 | | 53 50 36 | 53 50 37 | Nord. | Il y a eu une erreur de 3° en calculant l'azimut dans lequel ces observations ont dû être faites. Je pense que cette erreur n'a eu qu'une trop faible influence sur la valeur de l'inclinaison pour y avoir égard ici. |
| | 3. | 5. | Après pôles changés... | N. | 53 21 35 | | | | | | |
| | | | Avant pôles changés... | S. | 54 31 36 | 1 1 21 | | 54 0 45 | 54 0 45 | Nord. | |
| | | | Après pôles changés... | N. | 53 30 4 | | | | | | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 53 55 41 | | |
| | | | Avant pôles changés... | N. | 57 41 36 | 0 10 23 | | 57 46 47 | 57 46 47 | Nord. | |
| | | | Après pôles changés... | S. | 57 51 59 | | | | | | |
| | 5. | 6. | Avant pôles changés... | N. | 57 38 9 | 0 24 18 | | 57 50 18 | 57 50 18 | Nord. | |
| | | | Après pôles changés... | S. | 58 2 27 | | | | | | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 57 48 32 | | |
| | | | Sans changer les pôles. | N. | 58 20 9 | ..... | 0 26 39 0 46 59 | 58 46 48 59 7 8 | 58 56 58 | Nord. | |
| | 6. | 5. | Sans changer les pôles. | N. | 58 13 42 | ..... | 0 26 44 0 47 8 | 58 40 26 59 0 50 | 58 50 38 | Nord. | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 58 53 48 | | |
| | 7. | 6. | Sans changer les pôles. | S. | 59 54 7 | ..... | 0 11 2 | 59 45 3 | 59 45 3 | Nord. | |
| | | | Sans changer les pôles. | S. | 59 56 31 | ..... | 0 11 1 | 59 45 30 | 59 45 30 | Nord. | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 59 45 16 | | |
| | | | Sans changer les pôles. | N. | 60 31 49 | ..... | 0 24 58 0 44 8 | 60 56 47 61 15 57 | 61 0 22 | Nord. | |
| | 8. | 5. | Sans changer les pôles. | N. | 59 58 24 | ..... | 0 25 24 0 44 48 | 60 23 48 60 43 12 | 60 33 30 | Nord. | |
| | | | Moyenne.... |  | ..... | ..... |  |  | 60 49 56 | | |

| LIEU où l'observation a été faite. | DATE. | NOMBRÉ DE L'AIGUILLE. | INCLINAISON OBSERVÉE. | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|--|------------------------|-----------------------|-----------------------------|---------------|----------------------------------|-----------|-------------|-----------|---------------------------|------------|
| | | | NATURE de l'observation. | POINTE LOUDE. | RÉSULTAT de l'observation. | observée. | calculée. | CORRIGÉE. | MOYENNE et définitive. | |
| Saite. Traversée des îles Sandwich à Port-Jackson. | 1819 Nov. 10. | 6. | Sans changer les pôles. | S. | 61°58'50" | ..... | 0°10'20" | 61°48'30" | 61°48'30" | Nord. |
| | | | Sans changer les pôles. | S. | 62° 8 32 | ..... | 0 10 17 | 61 58 15 | 61 58 15 | |
| | | | Moyenne..... | ..... | ..... | ..... | ..... | ..... | 61 53 22 | |
| | 11. | 5. | Sans changer les pôles. | N. | 62 24 39 | ..... | 0 23 30 | 62 48 9 | 62 57 7 | Nord. |
| | | | Sans changer les pôles. | N. | 62 27 34 | ..... | 0 41 27 | 63 6 6 | 63 0 0 | |
| | | | Moyenne..... | ..... | ..... | ..... | 0 23 28 | 62 51 2 | 62 58 33 | |
| | 12. | 6. | Sans changer les pôles. | S. | 63 51 7 | ..... | 0 9 42 | 63 41 25 | 63 41 25 | Nord. |
| | | | Sans changer les pôles. | S. | 63 53 29 | ..... | 0 9 41 | 63 43 48 | 63 43 48 | |
| | | | Moyenne..... | ..... | ..... | ..... | ..... | ..... | 63 42 36 | |
| Port-Jackson. | Déc. 14 et 23. | 6. | Avant pôles changés... | N. | 62 15 41 | 0°20'28" | ..... | 62 25 55 | 62 25 55 | Nord. |
| | | | Après pôles changés... | S. | 62 36 9 | ..... | ..... | 62 32 36 | 62 32 36 | |
| | | | Avant pôles changés... | N. | 62 22 30 | 0 20 13 | ..... | 62 29 15 | 62 29 15 | |
| | | | Après pôles changés... | S. | 62 42 43 | ..... | ..... | 66 35 57 | 66 35 57 | |
| | 27. | 5. | Moyenne..... | ..... | ..... | ..... | ..... | 66 40 25 | 66 40 25 | |
| | | | Avant pôles changés... | N. | 65 57 4 | 1 17 47 | ..... | 66 40 25 | 66 40 25 | |
| | | | Après pôles changés... | S. | 67 14 51 | ..... | ..... | 66 38 11 | 66 38 11 | |
| | | | Avant pôles changés... | N. | 66 8 19 | 1 4 12 | ..... | 67 39 56 | 67 39 56 | |
| | 28. | 5. | Après pôles changés... | S. | 67 12 31 | ..... | ..... | 67 49 36 | 67 49 36 | |
| | | | Moyenne..... | ..... | ..... | ..... | ..... | 67 47 49 | 67 47 49 | |
| | | | Sans changer les pôles. | S. | 68 13 9 | ..... | 0 33 13 | 67 39 56 | 67 48 42 | |
| | | | Sans changer les pôles. | S. | 68 11 24 | ..... | 0 13 53 | 67 59 16 | 67 48 42 | |
| Traversée de Port-Jackson aux Malouines. | 29. | 5. | Moyenne..... | ..... | ..... | ..... | 0 33 16 | 67 38 8 | 67 39 18 | |
| | | | Sans changer les pôles. | S. | 68 3 2 | ..... | 0 13 59 | 67 49 3 | 67 23 23 | |
| | | | Sans changer les pôles. | S. | 67 47 23 | ..... | 0 33 50 | 67 13 33 | 67 31 20 | |
| | | | Moyenne..... | ..... | ..... | ..... | 0 14 9 | 67 33 14 | 67 31 20 | |
| | 1820 Janvier, 3. | 5. | Avant pôles changés... | S. | 73 10 15 | 0 25 55 | 72 44 20 | 72 51 52 | 72 57 20 | |
| | | | Après pôles changés... | S. | 73 21 0 | 0 10 50 | 72 59 25 | 73 2 49 | 75 26 22 | |
| | | | Moyenne..... | ..... | ..... | ..... | 0 25 39 | 75 28 4 | 75 27 13 | |
| | | | Avant pôles changés... | S. | 75 34 47 | 0 16 51 | 75 26 22 | 75 28 4 | 75 28 4 | |
| 1820 Janvier, 9. | 5. | 5. | Après pôles changés... | N. | 75 17 56 | ..... | 75 28 4 | 75 28 4 | 75 27 13 | |
| | | | Avant pôles changés... | S. | 75 38 26 | 0 20 44 | 75 28 4 | 75 28 4 | 75 27 13 | |
| | | | Après pôles changés... | N. | 75 17 42 | ..... | ..... | 70 43 1 | 70 43 1 | |
| | | | Moyenne..... | ..... | ..... | ..... | 0 45 34 | 70 37 16 | 70 40 8 | |
| | 19. | 5. | Avant pôles changés... | N. | 70 18 35 | 0 48 51 | 70 43 1 | 70 43 1 | 70 40 8 | |
| | | | Après pôles changés... | S. | 71 7 26 | ..... | ..... | 70 37 16 | 70 37 16 | |
| | | | Avant pôles changés... | N. | 70 14 29 | 0 45 34 | 70 37 16 | 70 37 16 | 70 40 8 | |
| | | | Après pôles changés... | S. | 71 0 3 | ..... | ..... | ..... | ..... |  |

VOYAGE AUTOUR DU MONDE.

| LIEU où l'observation a été faite. | DATE. | N° DU N° DE L'AGUILLE. | INCLINAISON OBSERVÉE. | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|---|------------------|------------------------------|-----------------------------|-----------------------------------|--|---|-------------|---------------------------|-------------------|------------|
| | | | NATURE de l'observation. | PONTE LOINDE de l'observation. | RÉSULTAT observé. | calculé. | CORRIGÉE. | MOYENNE et définitive. | | |
| Suite. Traversée de Port-Jackson aux Malouines. | 1820 Janvier, | 5. | Sans changer les pôles. | S. 72° 1'39" | 0°22' 0" 0 11 27 0 22 3 0 11 29 | 71°39'39" 71 50 12 71 36 51 71 47 31 | 71°44'55" | Nord. | | |
| | 21. | 5. | Sans changer les pôles. | S. 71 59 0 | ..... | ..... | 71 42 14 | Nord. | | |
| | | | Moyenne.... | ..... | ..... | ..... | 71 43 34 | | | |
| | 22. | 5. | Sans changer les pôles. | S. 72 21 27 | 0 21 36 0 11 15 | 71 59 51 72 10 12 | 72 5 1 | Nord. | | |
| | | | Sans changer les pôles. | S. 72 24 35 | 0 21 33 0 11 13 | 72 3 2 72 13 22 | 72 8 12 | Nord. | | |
| | | | Moyenne.... | ..... | ..... | ..... | 72 6 36 | | | |
| | 24. | 5. | Avant pôles changés... | S. 73 2 14 | 0°19'14" | | 72 52 37 | 72 52 37 | Nord. | |
| | | | Après pôles changés... | N. 73 43 0 | | | | | | |
| | | | Avant pôles changés... | S. 73 13 11 | 0 24 15 | 73 1 3 | 73 1 3 | Nord. | | |
| | | | Après pôles changés... | N. 72 48 56 | | | | | | |
| | | | Moyenne.... | ..... | ..... | ..... | 72 56 50 | | | |
| | 27. | 5. | Sans changer les pôles. | N. 72 28 31 | 0 11 10 0 22 40 | 72 39 41 72 51 11 | 72 45 26 | Nord. | | |
| | | | Sans changer les pôles. | N. 72 32 11 | 0 11 8 0 22 35 | 72 43 19 72 54 46 | 72 49 2 | Nord. | | |
| | | | Moyenne.... | ..... | ..... | ..... | 72 47 14 | | | |
| | 28. | 5. | Sans changer les pôles. | N. 72 22 16 | 0 11 14 0 22 48 | 72 33 30 72 45 4 | 72 39 17 | Nord. | | |
| | | | Sans changer les pôles. | N. 72 17 19 | 0 11 17 0 22 54 | 72 28 36 72 40 13 | 72 34 24 | Nord. | | |
| | | | Moyenne.... | ..... | ..... | ..... | 72 36 50 | | | |
| | 29. | 5. | Sans changer les pôles. | N. 72 46 13 | 0 11 0 0 22 18 | 72 57 13 73 8 31 | 73 2 52 | Nord. | | |
| | | | Sans changer les pôles. | N. 72 39 59 | 0 11 3 0 22 26 | 72 51 2 73 2 25 | 72 56 43 | Nord. | | |
| | | | Moyenne.... | ..... | ..... | ..... | 72 59 47 | | | |
| | 31. | 5. | Avant pôles changés... | N. 69 5 0 | 0 59 9 | | 69 34 35 | 69 34 35 | Nord. | |
| | | | Après pôles changés... | S. 70 4 9 | | | 69 34 42 | 69 34 42 | Nord. | |
| | | | Avant pôles changés... | N. 69 11 44 | 0 45 57 | | | | | |
| | | | Après pôles changés... | S. 69 57 41 | | | 69 34 38 | | | |
| | Février, | 3. | Sans changer les pôles. | S. 67 13 48 | 0 29 8 | 66 44 40 | 66 44 40 | Nord. | | |
| | | 5. | Sans changer les pôles. | S. 67 23 3 | 0 28 57 | 66 54 6 | 66 54 6 | Nord. | | |
| | | | Moyenne.... | ..... | ..... | ..... | 66 49 23 | | | |
| | 6. | 5. | Sans changer les pôles. | S. 65 40 31 | 0 31 0 | 65 9 31 | 65 9 31 | Nord. | | |
| | | | Sans changer les pôles. | S. 65 33 47 | 0 31 8 | 65 2 39 | 65 2 39 | Nord. | | |
| | | | Moyenne.... | ..... | ..... | ..... | 65 6 5 | | | |
| | 9. | 5. | Sans changer les pôles. | S. 61 18 20 | 0 36 9 | 60 42 11 | 60 42 11 | Nord. | | |
| | | | Sans changer les pôles. | S. 61 28 50 | 0 35 56 | 60 52 54 | 60 52 54 | Nord. | | |
| | | | Moyenne.... | ..... | ..... | ..... | 60 47 32 | | | |

| LIEU où l'observation a été faite. | DATE. | NOMBRE DE L'AIGUILLE. | INCLINAISON OBSERVÉE. | | | ERREUR D'ÉQUILIBRATION | | INCLINAISON | | POINTE élevée. | REMARQUES. |
|---|-------------------------|-----------------------|-----------------------------|----------------|----------------------------------|---------------------------|-----------|-------------|---------------------------|-------------------|------------|
| | | | NATURE de l'observation. | POINTE LOURDE. | RÉSULTAT de l'observation. | observée. | calculée. | corrigée. | MOYENNE et définitive. | | |
| Sur la Traversée de Port-Jackson aux Malouines. | 1820 Février, 10. | 5. | Sans changer les pôles. | S. | 58° 4' 50" | ..... | 0°39'48" | 57°25' 2" | 57°25' 2" | Nord. | |
| | | | Sans changer les pôles. | S. | 58 8 15 | ..... | 0 39 44 | 57 28 31 | 57 28 31 | Nord. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 57 26 46 | | |
| Îles Malouines. | Avril, 6. | 0. | Avant pôles changés... | S. | 56 33 11 | 2°16'50" | ..... | 55 24 46 | 55 24 46 | Nord. | |
| | | | Après pôles changés... | N. | 54 16 21 | ..... | ..... | ..... | ..... |  |  |
| | | | Avant pôles changés... | S. | 56 33 26 | 2 15 45 | ..... | 55 25 33 | 55 25 33 | Nord. | |
| | | | Après pôles changés... | N. | 54 17 41 | ..... | ..... | ..... | ..... |  |  |
| | | | Avant pôles changés... | S. | 56 33 19 | 2 21 2 | ..... | 55 22 48 | 55 22 48 | Nord. | |
| | | | Après pôles changés... | N. | 54 12 17 | ..... | ..... | ..... | ..... |  |  |
| | | | Avant pôles changés... | S. | 56 35 17 | 2 20 51 | ..... | 55 24 52 | 55 24 52 | Nord. | |
| | | | Après pôles changés... | N. | 54 14 26 | ..... | ..... | ..... | ..... |  |  |
| | | | Avant pôles changés... | S. | 55 35 29 | 0 36 42 | ..... | 55 17 8 | 55 17 8 | Nord. | |
| | | | Après pôles changés... | N. | 54 58 47 | ..... | ..... | ..... | ..... |  |  |
| | | | Avant pôles changés... | S. | 55 41 24 | 51 0 35 | ..... | 55 23 29 | 55 23 29 | Nord. | |
| | | | Après pôles changés... | N. | 55 5 33 | ..... | ..... | ..... | ..... |  |  |
| | | | Avant pôles changés... | S. | 56 2 57 | 2 9 36 | ..... | 54 59 13 | 54 59 13 | Nord. | |
| | | | Après pôles changés... | N. | 53 53 21 | ..... | ..... | ..... | ..... |  |  |
| | | | Avant pôles changés... | S. | 56 3 29 | 2 8 32 | ..... | 54 58 9 | 54 58 9 | Nord. | |
| | | | Après pôles changés... | N. | 53 54 57 | ..... | ..... | ..... | ..... |  |  |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 55 16 52 | | |
| Montevideo. | 9 et 15. | 4. | Sans changer les pôles. | N. | 54 4 46 | ..... | 1 6 15 | 55 11 1 | 55 22 38 | Nord. | |
|  |  |  |  |  |  | ..... | 1 29 29 | 55 34 15 | ..... |  |  |
| | Mai, 16. | 1. | Sans changer les pôles. | N. | 36 17 37 | ..... | 0 25 42 | 36 43 19 | 36 51 44 | Nord. | |
|  |  |  |  |  |  | ..... | 0 42 33 | 37 0 10 | ..... |  |  |
| | Juin, 1. | 0. | Sans changer les pôles. | N. | 35 1 51 | ..... | 1 39 57 | 36 41 48 | 36 41 48 | Nord. | |
| | | | Sans changer les pôles. | N. | 35 7 10 | ..... | 1 39 51 | 36 47 1 | 36 47 1 | Nord. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 36 46 51 | | |
| Rio de Janeiro. (2 ^e relâche.) | Août, 6. | 1. | Avant pôles changés... | N. | 13 37 8 | 1 47 3 | ..... | 14 31 5 | 14 31 5 | Nord. | |
| | | | Après pôles changés... | S. | 15 25 1 | ..... | ..... | ..... | ..... |  |  |
| | | | Avant pôles changés... | N. | 13 45 43 | 1 37 23 | ..... | 14 34 25 | 14 34 25 | Nord. | |
| | | | Après pôles changés... | S. | 15 23 6 | ..... | ..... | ..... | ..... |  |  |
| | Sept. 1. | 4. | Avant pôles changés... | N. | 12 16 48 | 4 55 30 | ..... | 14 44 33 | 14 44 33 | Nord. | |
| | | | Après pôles changés... | S. | 17 12 18 | ..... | ..... | ..... | ..... |  |  |
| | | | Avant pôles changés... | N. | 12 17 44 | 4 54 37 | ..... | 14 45 2 | 14 45 2 | Nord. | |
| | | | Après pôles changés... | S. | 17 12 21 | ..... | ..... | ..... | ..... |  |  |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 14 38 46 | | |
| Traversée de Rio de Janeiro en France. | Octob. 3. | 5. | Avant pôles changés... | S. | 12 33 38 | 0 21 11 | ..... | 12 44 12 | 12 44 12 | Sud. | |
| | | | Avant pôles changés... | N. | 12 54 47 | ..... | ..... | ..... | ..... |  |  |
| | | | Sans changer les pôles. | N. | 24 45 41 | ..... | 0 9 51 | 24 35 50 | 24 35 50 | Sud. | |
| | | | | | | | | | | | |
| | | | Sans changer les pôles. | N. | 28 22 46 | ..... | 0 9 33 | 28 13 13 | 28 13 13 | Sud. | |
| | | | Sans changer les pôles. | N. | 28 15 55 | ..... | 0 9 33 | 28 6 22 | 28 6 22 | Sud. | |
| | | | Moyenne.... | ..... | ..... | ..... | ..... | ..... | 28 9 47 | | |

CHAPITRE V.

RÉSUMÉ DES INCLINAISONS MAGNÉTIQUES, OBSERVÉES EN MER PENDANT LE VOYAGE.

| NU- MÉRO d'or- dre. | PARAGE OÙ L'OBSERVATION A ÉTÉ FAITE. | | | ÉPOQUE. | | NOMBRE des observa- tions par- tielles. | NOMS des OBSERVATEURS. | NUMÉRO de l'iguille | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. |
|------------------------------|---|------------------|-----------------------------------|------------------------|-------------------|--|--------------------------------|----------------------------|--|-----------|-------------------|------------|
| | Position géographique. | | | DATE. | HEURE. | | | | Corrigée | Moyenne. | Pointe élevée. | |
| | Nom de la localité. | Latitude. | Longitude comptée de Paris. | | | | | | | | | |
| 1 | France. Paris. (Observat. roy.) | Nord. 48° 50' | 0° 0' | 1817. | | | | | | | | |
| | | | | Mars, 14. | ..... | 102 | Arago, Frey. Lm. | 2 | 68°39' 7" | | | |
| | | | | 15, 16, 22. | ..... | 120 | Arago, Frey. Lm. | 0 | 68 32 1 | | | |
| | | | | Avril, 2. | ..... | 14 | Arago, Frey. Lm. | 1 | 68 26 31 | 68°28'22" | Sud. | |
| | | | | 3, 4. | ..... | 34 | Arago, Frey. Lm. | 4 | 68 18 45 | | | |
| | | | | 3. | ..... | 8 | Arago, Frey. Lm. | 3 | 68 25 27 | | | |
| | | | | | | 378 | | | | | | |
| 2 | Ile Ténériffe. Santa-Cruz. | 28 28 | Ouest. 18 36 | Octobre, 25. | Midi. | 30 | Frey. Lm. Dp. Lb. | 0 | 57 43 52 | | | |
| | | | | | 26. | 11 ^h m. | 36 | Frey. Lm. Lc. Dp. | 1 | 58 7 20 | 57 56 40 | Sud. |
| | | | | | 27. | ..... | 56 | Frey. Lm. Lc. Lb. | 2 | 57 58 49 | | |
| | | | | | | | 122 | | | | | |
| 3 | Brésil. Rio de Janeiro (1 ^{re} relâche.) | Sud. 22 55 | 45 38 | 1818 Janvier, 1. | 2 ^h s. | 80 | Frey. Lm. Lb. Dp. Fb. B. P. | 3 | 14 43 39 | | | |
| | | | | | 2. | 8 ^h mat. | 40 | Frey. Lm. Lb. | 4 | 14 37 9 | | |
| | | | | | | | 12 | Lm. Lb. | 3 | 15 4 54 | | |
| | | | | | 3, 6. | 2 ^h s. | 80 | Lc. Db. B. P. | 4 | 14 50 21 | 14 42 14 | Nord. |
| | | | | | 8, 9. | 10 ^h $\frac{1}{2}$ m. | 80 | Ld. Fr. Lb... | 3 | 14 32 54 | | |
| | | | | | 10. | 8 ^h $\frac{1}{2}$ m. 1 ^h $\frac{1}{2}$ s. | 80 | Dp. B. P.... | 2 | 14 24 30 | | |
| | | | | | | | 372 | | | | | |
| 4 | Afrique. Cap de Bonne- Espérance. | 33 55 | Est. 16 4 | Mars, 14. | 4 ^h s. | 48 | Lc. | 1 | 50 35 49 | | | |
| | | | | | 18. | ..... | 160 | Frey. Dp. R. Db. | 2 | 50 55 8 | 50 47 3 | Nord. |
| | | | | | 20. | 8 ^h $\frac{1}{2}$ m. | 80 | Frey. | 3 | 50 50 11 | | |
| | | | | | | | 288 | | | | | |
| 5 | Ile-de-France. Port-Louis. | 20 10 | 55 8 | Juin, 10. | 1 ^h s. | 160 | Frey. Lm. R. | 3 | 55 2 21 | | | |
| | | | | | 12. | 1 ^h $\frac{1}{2}$ s. | 160 | Dp. Fb. B.... | 4 | 54 59 48 | | |
| | | | | | 12, 17. | 3 ^h $\frac{1}{2}$ s. 8 ^h m. | 160 | Frey. Dp. Fb. B. Lc. G. | 2 | 55 14 18 | 55 6 45 | Nord. |
| | | | | | 13, 17. | 3 ^h s. 9 ^h m. | 352 | Frey. Lc. R. G. | 2 | 55 19 26 | | |
| | | | | | 20. | 10 ^h m. 2 ^h s. | 160 | Frey. Lc. Fb.. | 1 | 54 50 15 | | |
| | | | | | 21. | Midi. 3 ^h s. | 240 | Lc. G. | 3 | 55 8 21 | | |
| | | | | | | | | | | | | |

| N° d'or- dre. | PARAGE où l'observation a été faite. | | | ÉPOQUE. | | NOMBRE des obser- vations par- tielles. | NOM des observateurs. | N° de l'aiguille | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. | |
|---------------------|--|------------------------|-----------------------------------|----------------------------|--|---|---|----------------------------|--|------------|-------------------|---|--|
| | Nom | Position géographique. | | DATE. | HEURE. | | | | Corrigée | Moyenne. | Pointe élevée. | | |
| | de la localité. | Latitude. | Longitude comptée de Paris. | | | | | | définitivem. | | | | |
| 5 | Suite. Île-de-France. Port-Louis. | Sud. 20° 10' | Est. 55° 8' | 1817. Juillet, 4, 8. | 2 ^h s. 10 ^h m. 2 ^h s. Midi. | 160 160 (a) | Lc. Db..... Lc. Db..... | 3 0 | 54° 56' 56" 55 22 42 | 55° 6' 45" | Nord. | (a) La somme de toutes les observations partielles d'inclinaison faites à Port-Louis, de l'Île-de-France, est de 2 332. | |
| 6 | Île Bourbon, Saint-Denis. | 20 51 | 53 10 | 1818. Juillet, 23. | 7 ^h $\frac{1}{2}$ matin. | 80 | Lc. R..... | 3 | 54 29 48 | 54 29 48 | Nord. | | |
| 7 | Presqu'île Péron, baie des Chiens-Marins. | 25 43 | 110 59 | Septemb. 23. | Matin et soir. Soir. | 192 240 432 | Frey. Lm.... | 3 | 54 45 48 | 54 52 45 | Nord. | | |
| 8 | Île Timor, Coupang. | 10 10 | 121 15 | Octobre, 13. | 7 ^h 30' à 10 ^h matin. <i>Idem.</i> 11 ^h 45' m. à 2 ^h soir. 14. <i>Idem.</i> 1 ^h 30' à 4 ^h soir. 18. <i>Idem.</i> 7 ^h 45' à 9 ^h matin. <i>Idem.</i> 2 ^h à 4 ^h soir. | 176 240 320 320 240 320 (a) | Frey. Dp.... Dp.... Frey. Dp.... | 0 3 2 1 4 6 | 32 51 0 32 49 0 32 54 0 32 57 42 32 43 0 32 57 36 | 32 52 3 | Nord. | | |
| 9 | Île Timor, Dillé. | 8 33 | 123 9 | Novemb. 19. | 11 ^h 30' m. à midi 30'. | 120 | Dp. P..... | 1 | 30 0 1 | 30 0 21 | Nord. | | |
| 10 | Île Rawak. | 0 2 | 128 35 | Décemb. 28. | 11 ^h mat. à 5 ^h 8' soir. | 160 | Lm..... | 1 | 14 22 1 | | | (a) La somme de toutes les observations partielles d'inclinaison faites à Coupang, sur l'île Timor, est de 1 716. | |
| | | | | <i>Idem.</i> | ..... | 160 | R..... | 1 | 14 25 50 | | | | |
| | | | | <i>Idem.</i> | ..... | 160 | Frey..... | 1 | 14 21 29 | | | | |
| | | | | <i>Idem.</i> | ..... | 80 | ..... | 0 | 14 30 12 | | | | |
| | | | | 29. | 11 ^h m. à 1 ^h soir. | 80 | G..... | 0 | 14 30 6 | | | | |
| | | | | <i>Idem.</i> | ..... | 80 | ..... | 3 | 14 27 6 | 14 26 57 | Nord. | | |
| | | | | <i>Idem.</i> | 1 ^h 30' à 3 ^h soir. | 80 | R..... | 3 | 14 30 18 | | | | |
| | | | | <i>Idem.</i> | ..... | 80 | Dp..... | 4 | 14 27 0 | | | | |
| | | | | 30. | 7 ^h à 10 ^h m. | 80 | Fb..... | 4 | 14 31 24 | | | | |
| | | | | <i>Idem.</i> | ..... | 80 | Dp..... | 2 | 14 27 18 | | | | |
| | | | | <i>Idem.</i> | ..... | 80 | Fb..... | 2 | 14 23 42 | | | | |
| | | | | Nord. | | (a) | | | | | | | |
| 11 | Traversée de Rawak à Guam. | 3 31 | 135 19 | 1819. Janvier, 27. | 11 ^h m. à 1 ^h soir. | 80 | Frey. Lm.... | 5 | 7 46 6 | 7 46 6 | Nord. | (b) La somme de toutes les observations partielles d'inclinaison faites à l'île Rawak est de 1 240. | |
| 12 | ..... | 1 1 | 141 35 | Février, 10. | Midi. | 64 | Frey..... | 5 | 14 14 7 | 14 12 25 | Nord. | | |
| | | | | <i>Idem.</i> | | 64 | R..... | 5 | 14 10 44 | | | | |

VOYAGE AUTOUR DU MONDE.

| NU- MÉRO d'or- dre. | PARAGE OÙ L'OBSERVATION A ÉTÉ FAITE. | | | ÉPOQUE. | | NOMBRE des observa- tions par- tielles. | NOM des OBSERVATEURS. | NUMÉRO de l'aiguille | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. | | | | | | | |
|------------------------------|--|---------------|----------|--------------------------|--|--|-----------------------------|----------------------------|--|-----------|-------|------------|--|--|--|--|--|--|--|
| | Position géographique. | | DATE. | HEURE. | | | | | | | | | | | | | | | |
| | Nom de la localité. | Latitude. | | | | | | | | | | | | | | | | | |
| 13 | Suite. Traversée de Rawak à Guam. | Sud. | Est. | 1819. Février, 12. | 3 ^h à 4 ^h soir. | 96 | Frey..... | 5 | 16°40' 4" | 16°41'47" | Nord. | | | | | | | | |
| | | 0° 25' | 142° 33' | <i>Idem.</i> | <i>Idem.</i> | 96 | P..... | 5 | 16 43 31 | | | | | | | | | | |
| 14 | | Nord. 0 29 | 144 55 | 28. | 11 ^h mat. à 1 ^h soir. | 64 | Frey..... | 5 | 13 52 36 | 13 48 7 | Nord. | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 64 | Lm..... | 5 | 13 43 39 | | | | | | | | | | |
| 15 | Ile Guam, Umata. | 9 22 | 146 31 | Mars, 14. | 1 ^h 30' à 4 ^h 30' soir. | 192 | B..... | 5 | 6 42 19 | 6 45 29 | Sud. | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | Frey..... | 5 | 6 48 39 | | | | | | | | | | |
| 16 | Ile Guam, Umata. | 13 17 | 142 32 | 25. | 1 ^h à 5 ^h 30' soir. | 256 | Frey..... | 2 | 13 31 20 | 13 33 27 | Sud. | | | | | | | | |
| | | | | 26. | Soir. | 192 | Lm..... | 0 | 13 33 34 | | | | | | | | | | |
| 17 | Ile Guam, Agagna. | 13 28 | 142 37 | <i>Idem.</i> | <i>Idem.</i> | 192 | P..... | 0 | 13 35 27 | 12 48 42 | Sud. | | | | | | | | |
| | | | | | | 640 | | | | | | | | | | | | | |
| 18 | Ile Guam, fort Santa-Cruz. | 13 26 | 142 32 | Avril, 22. | Midi à 5 ^h soir. | 384 | Frey..... | 3 | 12 49 6 | 12 45 50 | Sud. | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 384 | ..... | 3 | 12 45 50 | | | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | Lm..... | 2 | 12 45 50 | | | | | | | | | | |
| | | | | Mai, 2. | 6 ^h 30' à 9 ^h 45' m. | 192 | Frey..... | 1 | 12 31 52 | | | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | Lm..... | 1 | 12 33 1 | | | | | | | | | | |
| | | | | 2 et 5. | Matin. | 192 | ..... | 0 | 12 47 6 | | | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | Frey..... | 0 | 12 43 35 | | | | | | | | | | |
| | | | | 6. | 8 ^h à 11 ^h 30' matin. | 192 | Lm..... | 4 | 13 13 2 | 12 46 53 | Sud. | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | P..... | 4 | 13 4 42 | | | | | | | | | | |
| | | | | 7. | 5 ^h 45' à 8 ^h 55' mat. | 192 | Frey..... | 2 | 12 39 15 | | | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | Lm..... | 2 | 12 38 12 | | | | | | | | | | |
| | | | | 21. | 1 ^h à 4 ^h soir. | 192 | Frey..... | 1 | 12 40 55 | | | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | Lm..... | 1 | 12 41 17 | | | | | | | | | | |
| | | | | 27. | 7 ^h 10' à 10 ^h 40' m. | 320 | Frey..... | 0 | 12 52 33 | | | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 320 | ..... | 0 | 12 51 41 | | | | | | | | | | |
| | | | | | | (a) | | | | | | | | | | | | | |
| | | | | Juin, 2. | 6 ^h à 9 ^h m. | 96 | Lm..... | 4 | 12 50 9 | 12 37 36 | Sud. | | | | | | | | |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | Db..... | 4 | 12 25 3 | | | | | | | | | | |
| | | | | | | 192 | | | | | | | | | | | | | |

(a) La somme des obser-
vations partielles d'inclina-
ison faites à Agagna
est de 3 520.

| NU. MÉMO D'OR- DRE. | PARAGE OÙ L'OBSERVATION A ÉTÉ FAITE. | | ÉPOQUE. | | NOMBRE DES OBSERVA- TIONS PAR- TIELLES. | NOM DES OBSERVATEURS. | NOM DE L'AIGUILLE | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. |
|------------------------------|---|------------------------|-----------------------------------|-----------------------|---|-----------------------------|-------------------------|--|-------------|-------------------|------------|
| | Nom de la localité. | Position géographique. | DATE. | HEURE. | | | | Corrigée Définitivement. | Moyenne. | Pointe droite. | |
| | | Latitude. | Longitude comptée de Paris. | | | | | | | | |
| 19 | Traversée de Guam aux îles Sandwich. | Nord. 17° 40' | Est. 143° 55' | 1819. Juin, 15. | Midi 30' à 3° 55' soir. <i>Idem.</i> | 128 | Lm..... | 5 21° 43' 58" | 21° 43' 15" | Sud. | |
| 20 | | 19 48 | 144 51 | 17. | 11 ^h 20' m. à 3 ^h 35' s. <i>Idem.</i> | 192 | | 5 24 53 38 | 24 47 27 | Sud. | |
| 21 | | 20 6 | 147 26 | 18. | 10 ^h matin à midi 30'. <i>Idem.</i> | 96 | Lm..... | 5 24 41 17 | 26 36 24 | Sud. | |
| 22 | | 20 37 | 149 32 | 19. | 11 ^h matin à midi 30'. <i>Idem.</i> | 96 | Lm..... | 5 29 24 17 | 29 27 3 | Sud. | |
| 23 | | 21 59 | 151 9 | 22. | 10 ^h 40' m. à midi. <i>Idem.</i> | 96 | Lm..... | 5 29 29 46 | 29 33 42 | Sud. | |
| 24 | | 23 58 | 153 29 | 24. | 10 ^h 15' à 11 ^h 55' m. <i>Idem.</i> | 96 | Lm..... | 5 32 10 47 | 32 6 20 | Sud. | |
| 25 | | 24 6 | 155 18 | 26. | 2 ^h 30' à 5 ^h soir. <i>Idem.</i> | 192 | Frey..... | 5 32 1 54 | | | |
| 26 | | 24 43 | 155 49 | 29. | 10 ^h 15' m. à midi. <i>Idem.</i> | 96 | Lm..... | 5 33 39 4 | 33 33 0 | Sud. | |
| . | | | | | | 96 | B..... | 5 33 26 56 | | | |
| 27 | | 27 23 | 157 54 | Juillet, 2. | 11 ^h 30' m. à 1 ^h soir. <i>Idem.</i> | 96 | Lm..... | 5 35 2 57 | | | |
| 28 | | 28 57 | 159 1 | 3. | 10 ^h 15' m. à midi. <i>Idem.</i> | 96 | G..... | 5 39 18 47 | 39 12 33 | Sud. | |
| 29 | | 30 25 | 169 9 | 4. | 10 ^h matin à 11 ^h 30'. <i>Idem.</i> | 96 | Lm..... | 5 39 6 19 | | | |
| 30 | | 31 51 | 160 53 | 5. | 10 ^h 15' m. à 11 ^h 45'. <i>Idem.</i> | 96 | Lm..... | 5 41 24 18 | 41 30 14 | Sud. | |
| 31 | | 32 37 | 160 39 | 6. | 10 ^h 15' m. à midi. <i>Idem.</i> | 96 | R..... | 5 41 36 11 | | | |
| 32 | | 33 27 | 160 24 | 7. | 10 ^h 33' m. à 11 ^h 43'. <i>Idem.</i> | 96 | Lm..... | 5 42 48 26 | 42 46 40 | Sud. | |
| 33 | | 34 16 | 161 26 | 8. | 10 ^h matin à 11 ^h 30'. <i>Idem.</i> | 96 | Fb..... | 5 42 44 54 | | | |
| | | | | | | 96 | Db..... | 5 45 11 35 | 45 13 32 | Sud. | |
| | | | | | | 96 | G..... | 5 45 15 30 | | | |
| | | | | | | 96 | Lm..... | 5 45 57 1 | 45 56 28 | Sud. | |
| | | | | | | 96 | Fb..... | 5 45 55 56 | | | |
| | | | | | | 96 | Db..... | 5 45 21 56 | 45 25 3 | Sud. | |
| | | | | | | 96 | G..... | 5 45 28 11 | | | |
| | | | | | | 96 | Lm..... | 5 47 8 17 | 47 12 4 | Sud. | |
| | | | | | | 96 | R..... | 5 47 15 51 | | | |

VOYAGE AUTOUR DU MONDE.

| NU- MÉRO d'or- dre. | PARAGE OÙ L'OBSERVATION A ÉTÉ FAITE. | | | ÉPOQUE. | | NOMBRE des observa- tions par- ticulières. | NOM des OBSERVATEURS. | NOM de l'aiguille | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. | | | | | | | |
|------------------------------|---|------------------|------------------|-------------------------|--|---|-----------------------------|-------------------------|--|-------------|--|------------|--|--|--|--|--|--|--|
| | Position géographique. | | DATE. | HEURE. | | | | | | | | | | | | | | | |
| | Nom de la localité. | Latitude. | | | | | | | | | | | | | | | | | |
| 34 | Saite. Traversée de Guam aux îles Sandwich. | Nord. 35° 10' | Est. 162° 20' | 1819. Juillet, 9. | 10 ^h 35' m. à 3 ^h soir. <i>Idem.</i> | 192 | Frey..... | 5 | 48° 23' 18" | 48° 32' 55" | | Sud. | | | | | | | |
| 35 | | 36 56 | 163 49 | 10. | 2 ^h 45' soir à 4 ^h . <i>Idem.</i> | 96 | ..... | 5 | 48 42 33 | 50 46 43 | | Sud. | | | | | | | |
| 36 | | 37 42 | 166 3 | 11. | 10 ^h 15' m. à midi. <i>Idem.</i> | 96 | Lm..... | 5 | 52 26 23 | 52 32 30 | | Sud. | | | | | | | |
| 37 | | 38 13 | 168 13 | 12. | 10 ^h 15' m. à midi. <i>Idem.</i> | 96 | Lm..... | 5 | 52 59 9 | 52 56 28 | | Sud. | | | | | | | |
| 38 | | 38 37 | 169 42 | 13. | 10 ^h 50' m. à midi 15'. <i>Idem.</i> | 96 | Lm..... | 5 | 53 35 6 | 53 33 28 | | Sud. | | | | | | | |
| 39 | | 38 52 | 171 42 | 14. | 10 ^h 45' m. à midi 15'. <i>Idem.</i> | 96 | Lm..... | 5 | 54 6 17 | 54 8 3 | | Sud. | | | | | | | |
| 40 | | 38 56 | 174 47 | 15. | 1 ^h soir à 2 ^h 45'. <i>Idem.</i> | 96 | R..... | 5 | 53 31 51 | | | Sud. | | | | | | | |
| 41 | | 38 52 | 176 20 | 16. | 10 ^h 15' à midi 10'. <i>Idem.</i> | 96 | Lm..... | 5 | 54 57 17 | 55 1 12 | | Sud. | | | | | | | |
| 42 | | 40 50 | 178 48 | 18. | 1 ^h 20' soir à 2 ^h 40'. <i>Idem.</i> | 96 | Lm..... | 5 | 55 17 23 | 55 11 47 | | Sud. | | | | | | | |
| 43 | | 41 11 | 175 0 | 19. | Midi 40' à 4 ^h soir. <i>Idem.</i> | 192 | Frey..... | 5 | 59 16 36 | 59 17 1 | | Sud. | | | | | | | |
| 44 | | 41 3 | 171 25 | 20. | 10 ^h 30' à midi 15'. <i>Idem.</i> | 96 | ..... | 5 | 59 59 31 | 60 3 50 | | Sud. | | | | | | | |
| 45 | | 40 25 | 167 45 | 21. | 11 ^h matin à midi 25'. <i>Idem.</i> | 96 | Dh..... | 5 | 60 8 10 | | | Sud. | | | | | | | |
| 46 | | 39 18 | 165 10 | 22. | 10 ^h 30' à midi 20'. <i>Idem.</i> | 96 | Lm..... | 5 | 59 31 08 | 59 30 49 | | Sud. | | | | | | | |
| 47 | | 38 4 | 162 44 | 23. | 10 ^h 15' m. à 11 ^h 45'. <i>Idem.</i> | 96 | Fb..... | 5 | 59 30 30 | 58 59 9 | | Sud. | | | | | | | |
| 48 | | 37 55 | 161 22 | 24. | 11 ^h 10' m. à midi 50'. <i>Idem.</i> | 96 | G..... | 5 | 59 1 0 | 59 0 36 | | Sud. | | | | | | | |
| | | | | | | 96 | Lm..... | 5 | 58 20 54 | 58 17 32 | | Sud. | | | | | | | |
| | | | | | | 96 | B..... | 5 | 58 14 11 | | | | | | | | | | |

| nu- méro d'or- dre. | PARAGE où l'observation a été faite. | | | ÉPOQUE. | | NOMBRE des observa- tions par- tielles. | NOM des OBSERVATEURS. | NOM de l'aiguille | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. | | | | |
|------------------------------|---|------------------------|-----------------------------------|--------------------------|---|--|-----------------------------|-------------------------|--|------------|-------------------|------------|--|--|--|--|
| | Nom de la localité. | Position géographique. | | DATE. | HEURE. | | | | Corrigée définitivem. | Moyenne. | Pointe élevée. | | | | | |
| | | Latitude. | Longitude comptée de Paris. | | | | | | | | | | | | | |
| 49 | Suite. Traversée de Guam aux îles Sandwich. | Nord. | Est. | 1819. Juillet. 25. | 10 ^h m. à 11 ^h 55' <i>Idem.</i> | 96 | Lm..... | 5 | 59° 6' 49" | 59° 6' 34" | Sud. | | | | | |
| 50 | ..... | 37 52 | 158 40 | 26. | Midi 10' à 1 ^h 45' s. <i>Idem.</i> | 192 | Frey..... | 5 | 59 15 25 | 59 12 11 | Sud. | | | | | |
| 51 | ..... | 36 48 | 158 28 | 28. | 10 ^h 25'm. à midi. <i>Idem.</i> | 96 | ..... | 5 | 57 8 47 | 57 3 51 | Sud. | | | | | |
| 52 | ..... | 32 36 | 156 53 | 30. | 10 ^h 15'm. à 1 ^h soir. <i>Idem.</i> | 96 | Lm..... | 5 | 54 0 30 | 53 53 49 | Sud. | | | | | |
| 53 | ..... | 30 33 | 156 24 | 31. | 10 ^h 30'm. à 11 ^h 50'. <i>Idem.</i> | 96 | Lm..... | 5 | 52 20 16 | 52 27 49 | Sud. | | | | | |
| 54 | ..... | 28 22 | 155 41 | Aout. 1. | 11 ^h mat. à midi 35'. <i>Idem.</i> | 96 | Lm..... | 5 | 50 0 54 | 49 52 59 | Sud. | | | | | |
| 55 | ..... | 26 8 | 155 5 | 2. | 10 ^h mat. à 11 ^h 45'. <i>Idem.</i> | 96 | Lm..... | 5 | 47 38 45 | 47 31 38 | Sud. | | | | | |
| 56 | ..... | 28 49 | 154 21 | 3. | 10 ^h 20'm. à 11 ^h 40'. <i>Idem.</i> | 96 | Lm..... | 5 | 45 20 43 | 45 22 12 | Sud. | | | | | |
| 57 | ..... | 21 6 | 154 49 | 4. | 10 ^h mat. à 1 ^h soir. <i>Idem.</i> | 192 | Lm..... | 5 | 41 11 0 | 41 5 45 | Sud. | | | | | |
| 58 | ..... | 20 1 | 156 49 | 5. | 10 ^h 30'm. à midi. <i>Idem.</i> | 96 | Lm..... | 5 | 40 22 55 | 40 26 40 | Sud. | | | | | |
| 59 | ..... | 18 52 | 158 7 | 6. | 10 ^h 30'm. à midi. <i>Idem.</i> | 96 | Lm..... | 5 | 41 37 21 | 41 44 45 | Sud. | | | | | |
| 60 | Iles Sandwich, à bord. Baie de Kairoua ou Kayakakoua, (à terre). Iles Sandwich. | 19 13 | 158 25 | 9. | 10 ^h mat. à 4 ^h soir. <i>Idem.</i> | 96 | Lm..... | 5 | 40 56 20 | | | | | | | |
| | | | | | Midi à 3 ^h 40' soir. <i>Idem.</i> | 192 | Frey..... | 0 | 41 11 6 | | | | | | | |
| | | | | | <i>Idem.</i> | 192 | <i>Idem.</i> | 0 | 41 10 39 | 41 6 17 | Sud. | | | | | |
| | | | | | <i>Idem.</i> | 192 | Dp..... | 0 | 41 7 3 | | | | | | | |
| | | | | | <i>Idem.</i> | 192 | <i>Idem.</i> | 0 | 41 6 17 | | | | | | | |
| | | | | | | 864 | | | | | | | | | | |
| 61 | Baie de Kohaihai. | 20 3 | 158 13 | 13. | <i>Idem.</i> | 96 | Lm..... | 0 | 42 15 54 | 42 13 24 | Sud. | | | | | |
| | | | | | <i>Idem.</i> | 96 | P. B..... | 0 | 42 10 55 | | | | | | | |
| | | | | | | 192 | | | | | | | | | | |

VOYAGE AUTOUR DU MONDE.

| nu- méro d'or- dre. | PARAGE où l'observation a été faite. | | | ÉPOQUE. | | NOMBRE des observa- tions par- tielles. | NOM des OBSERVATIONS. | NOM de l'aiguille | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. |
|------------------------------|--|------------------------|-----------------------------------|-----------------------|--|--|-----------------------------|-------------------------|--|-----------|-------------------|------------|
| | Nom de la localité. | Position géographique. | | DATE. | HEURE. | | | | Corrigée définitivement. | Moyenne. | Pointe devise. | |
| | | Latitude. | Longitude comptée de Paris. | | | | | | | | | |
| 62 | Ile Mowi. Village de Raheina. (À terre.) | Nord. 20° 52' | Ouest. 159° 2' | 1819. Août, 18. | Midi à 3 ^h 40' soir. <i>Idem.</i> | 192 | Frey..... | 0 | 41°49'33" | | | |
| | | | | | <i>Idem.</i> | 192 | <i>Idem.</i> | 0 | 41 47 42 | | | |
| | | | | 19. | 11 ^h matin. | 192 | Dp..... | 1 | 41 36 57 | | | |
| | | | | | <i>Idem.</i> | 192 | P..... | 1 | 41 42 26 | | | |
| | | | | 20. | 8 ^h matin. | 192 | Dp..... | 2 | 41 39 50 | | | |
| | | | | | <i>Idem.</i> | 192 | G..... | 2 | 41 38 58 | | | |
| | | | | 20, 21 | Mat., soir. | 192 | Dp..... | 3 | 41 32 9 | 41°39'22" | | Sud. |
| | | | | | <i>Idem.</i> | 192 | G. Fb..... | 3 | 41 30 31 | | | |
| | | | | 22. | <i>Idem.</i> | 288 | Lm..... | 4 | 41 37 37 | | | |
| | | | | | | (a) | | | | | | |
| 63 | En rade de Raheina. | | | 19, 20 | Matin. | 192 | Lm..... | 5 | 41 47 13 | | | |
| | | | | | <i>Idem.</i> | 192 | G. Fb..... | 5 | 41 30 9 | | | |
| | | | | | | 384 | | | | | | |
| 64 | Village d'Onorourou, île Wahou. | 21 19 | 160 12 | 27, 28 | Mat., soir. | 192 | R..... | 0 | 41 49 46 | | | |
| | | | | | <i>Idem.</i> | 192 | B..... | 0 | 41 49 54 | 41 49 50 | | Sud. |
| | | | | | | 384 | | | | | | |
| 65 | Traversée des îles Sandwich à Port-Jackson. (N.-Hollande.) | 20 27 | 160 5 | Septemb. 1. | 10 ^h 45' m. à 1 ^h 20' s. | 96 | Lm..... | 5 | 41 11 54 | | | |
| | | | | | <i>Idem.</i> | 96 | P..... | 5 | 41 33 4 | 41 22 29 | | Sud. |
| 66 | ..... | 19 22 | 159 49 | 3. | 10 ^h 45' m. à midi 15'. | 96 | Lm..... | 5 | 40 37 11 | | | |
| | | | | | <i>Idem.</i> | 96 | B..... | 5 | 40 48 10 | 40 42 40 | | Sud. |
| 67 | ..... | 19 28 | 158 5 | 5. | 10 ^h 15' m. à 11 ^h 35'. | 96 | Lm..... | 5 | 39 52 2 | | | |
|  | ..... |  |  |  | <i>Idem.</i> | 96 | Db..... | 5 | 39 50 23 | 39 51 12 | | Sud. |
| 68 | ..... | 18 7 | 158 32 | 6. | 10 ^h 15' m. à 11 ^h 40'. | 96 | Lm..... | 5 | 37 15 43 | | | |
|  | ..... |  |  |  | <i>Idem.</i> | 96 | P..... | 5 | 37 3 40 | 37 9 41 | | Sud. |
| 69 | ..... | 16 19 | 158 5 | 7. | 10 ^h 5' m. à 11 ^h 40'. | 96 | Lm..... | 5 | 35 31 30 | | | |
|  | ..... |  |  |  | <i>Idem.</i> | 96 | R..... | 5 | 35 19 13 | 35 25 21 | | Sud. |
| 70 | ..... | 13 9 | 155 57 | 9. | 10 ^h 25' m. à 11 ^h 12'. | 96 | Lm..... | 5 | 30 28 51 | | | |
|  | ..... |  |  |  | <i>Idem.</i> | 96 | G..... | 5 | 30 32 0 | 30 30 25 | | Sud. |
| 71 | ..... | 11 22 | 154 30 | 11. | 10 ^h 30' m. à 1 ^h 30' s. | 192 | Lm..... | 5 | 27 32 26 | | | |
|  | ..... |  |  |  | <i>Idem.</i> | 192 | Db..... | 5 | 27 33 47 | 27 33 6 | | Sud. |

(a) La somme de toutes les observations partielles d'inclinaison faîtes au village de Raheina est de 1 814.

| n ^o d'or- dre. | PARAGE où l'observation a été faite. | | ÉPOQUE. | | NOMBRE des observa- tions par- tielles. | NOM des observateurs. | N ^o de l'aiguille | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. |
|---------------------------------|--|--|--------------------|-------------------|---|-----------------------------|------------------------------------|--|------------|------------------|------------|
| | Nom de la localité. | Position géographique. | DATE. | HEURE. | | | | Corrigé définitivement. | Moyenne. | Pointe levée. | |
| | | Latitude. Longitude comptée de Paris. | | | | | | | | | |
| 72 | <i>Suite.</i> Traversée des îles Sandwich à Port Jackson. | Nord. 10° 52' | Ouest. 153° 39' | 1819. Septemb. | 10 ^h 25' m. à midi 30'. <i>Idem.</i> | 96 | Lm..... | 5 27 47' 16" | 27 50' 53" | Sud. | |
| | | | | 13. | 10 ^h 15' m. à 11 ^h 45'. <i>Idem.</i> | 96 | B..... | 5 27 54 30 | | | |
| 73 | | 9 52 | 152 48 | 15. | 10 ^h 15' m. <i>Idem.</i> | 96 | Lm..... | 5 25 17 59 | 25 20 35 | Sud. | |
| 74 | | 9 56 | 152 15 | 16. | 11 ^h 15' m. à 2 ^h soir. <i>Idem.</i> | 96 | Lm..... | 5 25 7 48 | 25 9 4 | Sud. | |
| 75 | | 9 20 | 151 34 | 18. | 1 ^h 8' à 2 ^h 23' s. <i>Idem.</i> | 96 | Lm..... | 5 22 30 8 | 22 31 18 | Sud. | |
| 76 | | 8 36 | 147 12 | 23. | 10 ^h 3' à 11 ^h 30' m. <i>Idem.</i> | 96 | Lm..... | 5 22 21 29 | 22 23 27 | Sud. | |
| 77 | | 9 4 | 145 00 | 24. | 10 ^h 15' à 11 ^h 30' m. <i>Idem.</i> | 96 | Lm..... | 5 23 2 57 | 22 59 55 | Sud. | |
| 78 | | 8 34 | 142 18 | 26. | Midi à 1 ^h 40' soir. <i>Idem.</i> | 96 | Lm..... | 5 20 48 36 | 20 55 17 | Sud. | |
| 79 | | 8 26 | 141 40 | 27. | 10 ^h matin à 1 ^h soir. <i>Idem.</i> | 96 | Lm..... | 5 20 45 0 | 20 46 43 | Sud. | |
| 80 | | 7 10 | 142 7 | 30. | 10 ^h 40' m. à 4 ^h soir. <i>Idem.</i> | 192 | Lm..... | 5 18 51 22 | | | |
| 81 | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | G..... | 5 18 42 10 | 18 44 4 | Sud. | |
| 82 | | 6 35 | 143 7 | Octobre. 1. | 10 ^h 20' m. à midi. <i>Idem.</i> | 96 | Lm..... | 5 17 24 41 | 17 29 59 | Sud. | |
| 83 | | 5 17 | 144 24 | 2. | Midi 35' à 1 ^h 35' soir <i>Idem.</i> | 96 | Lm..... | 5 14 46 41 | 14 39 45 | Sud. | |
| 84 | | 3 56 | 146 0 | 3. | 10 ^h 25' à 11 ^h 50' m. <i>Idem.</i> | 96 | Lm..... | 5 12 2 47 | 12 2 28 | Sud. | |
| 85 | | 2 41 | 147 32 | 4. | 10 ^h 25' à 11 ^h 45' m. <i>Idem.</i> | 96 | Lm..... | 5 8 54 12 | 8 59 26 | Sud. | |
| 86 | | 1 51 | 149 1 | 5. | 10 ^h 40' m. à 2 ^h 15' s. <i>Idem.</i> | 192 | Lm..... | 5 6 50 43 | 6 48 44 | Sud. | |

VOYAGE AUTOUR DU MONDE.

| NU- MÉRO d'or- dre. | PARAGE où l'observation a été faite. | | | ÉPOQUE. | | NOMBRE des observa- tions par- tielles. | NOM des OBSERVATEURS. | NOM du l'aiguille | INCLINAISON de l'aiguille aimantée. | | | REMARQUES. | | | | |
|------------------------------|---|------------------------|-----------------------------------|------------------------|---|--|-----------------------------|-------------------------|--|----------|-------------------|----------------------|--|--|--|--|
| | Nom de la localité. | Position géographique. | | DATE. | HEURE. | | | | Corrigé définitivem. | Moyenne. | Pointe élevée. | | | | | |
| | | Latitude. | Longitude comptée de Paris. | | | | | | | | | | | | | |
| 87 | Suite. Traversée des îles Sandwich à Port-Jackson. | Nord. 0° 48' | Ouest. 149° 45' | 1819. Octobre 6. | 10 ^h matin à 1 ^h 35' s. <i>Idem.</i> | 192 | Frey..... | 5 | 4°20'52" | 4°20' 1" | Sud. | | | | | |
| 88 | | Sud. 0 19 | 149 58 | 7. | 10 ^h matin à midi. <i>Idem.</i> | 96 | ..... | 5 | 1 27 47 | 1 20 41 | Sud. | | | | | |
| 89 | | 0 32 | 150 2 | <i>Idem.</i> | Midi 15' à 4 ^h soir. <i>Idem.</i> | 192 | Frey..... | 5 | 2 0 44 | 2 1 2 | Sud. | | | | | |
| 90 | | 1 56 | 150 5 | 8. | 6 ^h 25' à 7 ^h 53'm. <i>Idem.</i> | 96 | Frey..... | 5 | 0 14 49 | 0 15 30 | Nord. | Équateur magnétique. | | | | |
| 91 | | 2 0 | 150 30 | <i>Idem.</i> | 10 ^h matin à 2 ^h soir. <i>Idem.</i> | 192 | Frey..... | 5 | 0 9 45 | 0 18 23 | Nord. | | | | | |
| 92 | | 2 1 | 152 47 | 9. | 6 ^h 40' à 8 ^h 36'm. <i>Idem.</i> | 96 | Frey..... | 5 | 0 28 12 | 0 31 22 | Sud. | | | | | |
| 93 | | 2 1 | 153 25 | <i>Idem.</i> | 10 ^h 20' m. à 3 ^h 30' s. <i>Idem.</i> | 192 | Frey..... | 6 | 0 27 35 | 0 31 37 | Sud. | | | | | |
| 94 | | 3 15 | 154 45 | 10. | 10 ^h 25' m. à 2 ^h 30' s. <i>Idem.</i> | 192 | Frey..... | 6 | 2 5 26 | 1 58 19 | Nord. | | | | | |
| 95 | | 3 0 | 157 46 | 11. | 10 ^h matin à 2 ^h soir. <i>Idem.</i> | 192 | Frey..... | 6 | 1 33 35 | 1 36 1 | Nord. | | | | | |
| 96 | | 2 48 | 160 30 | 12. | 10 ^h 30' m. à 3 ^h 30' s. <i>Idem.</i> | 192 | Frey..... | 6 | 1 34 46 | 1 32 54 | Nord. | | | | | |
| 97 | | 2 16 | 162 20 | 13. | 7 ^h matin à 9 ^h 30'm. <i>Idem.</i> | 96 | Frey..... | 6 | 1 22 55 | 0 33 43 | Nord. | | | | | |
| 98 | | 2 14 | 162 36 | <i>Idem.</i> | 10 ^h 50' m. à 1 ^h 58' s. <i>Idem.</i> | 192 | Frey..... | 5 | 2 8 15 | 2 17 57 | Nord. | | | | | |
| 99 | | 4 25 | 164 6 | 14. | 10 ^h 26' m. à 11 ^h 28'. <i>Idem.</i> | 96 | ..... | 5 | 6 37 43 | 6 33 16 | Nord. | | | | | |
| 100 | | 6 27 | 165 32 | 15. | 10 ^h 32' m. à 1 ^h 15' s. <i>Idem.</i> | 192 | Frey..... | 6 | 11 16 21 | 11 18 3 | Nord. | | | | | |
| 101 | | 9 31 | 167 6 | 18. | 10 ^h 20' m. à 11 ^h 40'. <i>Idem.</i> | 96 | ..... | 5 | 18 14 31 | 18 20 42 | Nord. | | | | | |

| NU. RÉ. D'OR- DRE. | PARAGE OÙ L'OBSERVATION A ÉTÉ FAITE. | | | ÉPOQUE. | | NOMBRE DES OBSER- VATIONS PAR- TIELLES. | NOM DES OBSER- VATEURS. | NOM DE L'AIGUILLE | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. |
|-----------------------------|---|------------------------|-----------------------------------|------------------------------|---|--|----------------------------------|-------------------------|--|------------|-------------------|------------|
| | Nom de la localité. | Position géographique. | | DATE. | HEURE. | | | | Corrigée | Moyenne. | Pointe élevée. | |
| | | Latitude. | Longitude comptée de Paris. | | | | | | definitivem. | | | |
| 102 | Suite. Traversée des îles Sandwich à Port-Jackson. | Sud. | Ouest. | 1819. Octobre, 19. | 10 ^h 20' m. à 11 ^h 37'. | 192 | Lm. | 5 | 21° 41' 31" | 21° 48' 2" | | Nord. |
| | | 11° 12' | 167° 56 | <i>Idem.</i> | <i>Idem.</i> | 192 | G. | 5 | 21 51 34 | | | |
| 103 | | 12 52 | 168 49 | 20. | 10 ^h 50' m. à 3° 45' s. | 192 | Frey.... | 6 | 24 54 53 | 25 5 16 | | Nord. |
| 104 | | 15 56 | 171 57 | 22. | 10 ^h 45' m. à midi 15'. | 96 | ..... | 5 | 31 26 34 | 31 22 21 | | Nord. |
| 105 | | 17 36 | 172 50 | 23. | 10 ^h 34' m. à 11 ^h 50'. | 96 | Lm. | 6 | 34 15 33 | 34 14 41 | | Nord. |
| 106 | | 19 3 | 173 43 | 24. | 10 ^h 20' m. à 2 ^h soir. | 192 | Lm. | 5 | 36 54 35 | 36 56 44 | | Nord. |
| 107 | | 21 10 | 175 29 | 26. | 10 ^h à 11 ^h 40' mat. | 96 | Lm. | 6 | 40 7 52 | | | Nord. |
| 108 | | 22 21 | 178 11 | 28. | 10 ^h m. à 1 ^h 50' s. | 192 | Lm. | 6 | 42 55 2 | 42 59 8 | | Nord. |
| 109 | | 23 1 | Est. 179 38 | 29. | 10 ^h 45' m. à 2 ^h soir. | 192 | Lm. | 5 | 43 55 27 | | | Nord. |
| 110 | | 24 26 | 177 9 | 30. | 11 ^h mat. à midi 15'. | 96 | Lm. | 6 | 45 50 33 | | | Nord. |
| 111 | | 25 39 | 174 52 | 31. | 10 ^h 5' à 11 ^h 30' mat. | 96 | Lm. | 6 | 48 46 3 | 48 46 32 | | Nord. |
| 112 | | 27 2 | 172 45 | Novemb. 1 ^{er} . | 11 ^h 15' m. à midi 20'. | 96 | Lm. | 5 | 51 39 50 | | | Nord. |
| 113 | | 27 39 | 167 9 | 3. | 10 ^h 30' m. à 2 ^h 30' s. | 192 | Lm. | 5 | 53 48 20 | 53 53 25 | | Nord. |
| 114 | | 29 53 | 162 32 | 5. | 10 ^h 50' m. à 2 ^h soir. | 192 | Lm. | 6 | 57 46 47 | 57 48 32 | | Nord. |
| 115 | | 31 1 | 160 37 | 6. | 10 ^h 30 m. à midi. | 96 | Lm. | 5 | 58 56 58 | 58 53 48 | | Nord. |
| 116 | | 31 36 | 159 31 | 7. | 1 ^h à 2 ^h 10' soir. | 96 | Lm. | 6 | 59 43 5 | 59 44 17 | | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | B. | 6 | 59 45 30 | | | |

| nu- méro d'or- dre. | PARAGE où l'observation a été faite. | | | ÉPOQUE. | | NOMBRE des obser- vations partielles. | NOM des observateurs. | NOM de l'aiguille | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. |
|------------------------------|---|------------------------|-----------------------------------|------------------------|---|--|-----------------------------|-------------------------|--|-----------|-------------------|------------|
| | Nom de la localité. | Position géographique. | | DATE. | HEURE. | | | | Corrigée définitivem. | Moyenne. | Pointe élevée. | |
| | | Latitude. | Longitude comptée de Paris. | | | | | | | | | |
| 117 | Suite. Traversée des îles Sandwich à Port-Jackson. | Sud. | Est. | 1810. Novemb. 8. | 11 ^h 8' m. à midi 20' <i>Idem.</i> | 96 | Lm. | 5 | 61° 6'22" | 60°49'56" | | |
| 118 | | 32° 51' | 158° 0' | 10. | 10 ^h 55' m. à midi 15' <i>Idem.</i> | 96 | G. | 5 | 60 33 30 | 61 53 22 | | |
| 119 | | 32 51 | 154 5 | 11. | 10 ^h 15' m. à 11 ^h 45' <i>Idem.</i> | 96 | Lm. | 6 | 61 48 30 | 61 58 15 | | |
| 120 | | 33 27 | 151 51 | 12. | 10 ^h 55' m. à midi 5' <i>Idem.</i> | 96 | Fr. | 5 | 63 0 0 | 62 58 33 | | |
| | | 34 32 | 150 36 | | | 96 | Lm. | 6 | 63 41 25 | 63 42 36 | | |
| 121 | Port-Jackson. (Sydney). | 33 51 | 148 48 | Déce... 3. | 3 ^h 30' à 5 ^h soir. <i>Idem.</i> | 192 | Lm. | 4 | 62 42 3 | | | |
| | | | | 4 et 5. | Mat. et s. | 192 | G. F. B. | 4 | 62 37 35 | | | |
| | | | | | <i>Idem.</i> | 192 | Fb. B. | 0 | 62 53 11 | | | |
| | | | | | <i>Idem.</i> | 192 | Lm. | 0 | 62 54 43 | | | |
| | | | | | 7. | 192 | Frey. | 2 | 62 48 58 | | | |
| | | | | | <i>Idem.</i> | 192 | <i>Idem.</i> | 192 | 62 49 41 | | | |
| | | | | | <i>Idem.</i> | 192 | Lm. | 2 | 62 48 5 | | | |
| | | | | | <i>Idem.</i> | 192 | <i>Idem.</i> | 192 | 62 51 12 | | | |
| | | | | 11 et 12. | Matin. | 384 | R. | 1 | 62 48 47 | 62 47 7 | | |
| | | | | | <i>Idem.</i> | 384 | <i>Idem.</i> | 384 | 62 47 0 | | | |
| | | | | | <i>Idem.</i> | 384 | <i>Idem.</i> | 384 | 62 44 27 | | | |
| | | | | | <i>Idem.</i> | 384 | <i>Idem.</i> | 384 | 62 42 45 | | | |
| | | | | | 24. | 9 ^h 10' m. à midi. | B. | 3 | 62 48 43 | | | |
| | | | | | <i>Idem.</i> | 192 | <i>Idem.</i> | 192 | 62 42 33 | | | |
| | | | | 14 et 23. | Soir. | 320 | B. G. | 6 | 62 25 55 | 62 29 15 | | |
| | | | | | <i>Idem.</i> | 320 | <i>Idem.</i> | 320 | 62 32 36 | | | |
| 122 | Traversée de Port-Jackson aux îles Malouines. | 36 41 | 150 21 | 27. | 11 ^h 20' m. à 1 ^h 40' s. <i>Idem.</i> | 192 | Lm. | 5 | 66 35 57 | 66 38 11 | | |
| 123 | | 37 59 | 150 26 | 28. | 11 ^h mat. à midi 30'. <i>Idem.</i> | 96 | G. | 5 | 66 40 25 | 67 48 42 | | |
| 124 | | 39 4 | 149 26 | 29. | 1 ^h 5' à 2 ^h 50'. <i>Idem.</i> | 96 | Lm. | 5 | 67 49 36 | 67 31 20 | | |
| | | | | | | 96 | R. | 5 | 67 47 49 | | | |
| | | | | | | | | 5 | 67 39 18 | | | |
| | | | | | | | | 5 | 67 23 23 | | | |

(*) La somme de toutes les observations partielles d'inclinaison faites à Port-Jackson est de 4 096.

| NU. MÉMO D'ER- DRE. | PARAGE OÙ L'OBSERVATION A ÉTÉ FAITE | | ÉPOQUE. | | NOMBRE DES OBSERVA- TIONS PAR- TIELLES. | NOM DES OBSERVATEURS. | N° DU NUMÉRO DE L'AIGUILLE | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. |
|------------------------------|--|------------------------|-----------------------------------|-------------------------|--|-----------------------------|--|--|-------------|-------------------|------------|
| | Nom de la localité. | Position géographique. | DATE. | HEURE. | | | | Corrigée Définitivem. | Moyenne. | Pointe élevée. | |
| | | Latitude. | Longitude comptée de Paris. | | | | | | | | |
| 125 | Suite. Traversée de Port-Jackson aux îles Malouines. | Sud. | Est. | 1820, Janvier, 3. | 9 ^h 10' à 10 ^h 45' m. | 96 | Lm..... | 5 | 72° 51' 52" | 73° 57' 20" | Nord. |
| 126 | | 45° 49' | 156° 3' | <i>Idem.</i> | <i>Idem.</i> | 96 | B..... | 5 | 73 2 49 | | |
| 127 | | 55 2 | 175 12 | 9. | 11 ^h mat. à 2 ^h 30' soir. | 192 | Lm..... | 5 | 75 26 22 | 75 27 13 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | Frey..... | 5 | 75 28 4 | | |
| 128 | | 54 9 | 135 48 | 19. | 11 ^h 30' m. à 3 ^h 30' s. | 192 | Lm..... | 5 | 70 43 1 | 70 40 8 | Nord |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | Fr..... | 5 | 70 37 16 | | |
| 129 | | 55 27 | 129 49 | 21. | 2 ^h 50' à 4 ^h 10' s. | 96 | Lm..... | 5 | 71 44 55 | 71 43 34 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | G..... | 5 | 71 42 14 | | |
| 130 | | 55 38 | 125 37 | 22. | 11 ^h 45' m. à 2 ^h 10' s. | 96 | Lm..... | 5 | 72 5 1 | 72 6 36 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | R..... | 5 | 72 8 12 | | |
| 131 | | 56 48 | 120 5 | 24. | 1 ^h 15' à 5 ^h soir. | 192 | Frey..... | 5 | 72 52 37 | 72 56 50 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | Lm..... | 5 | 73 1 3 | | |
| 132 | | 57 25 | 111 16 | 27. | 11 ^h mat. à midi 40'. | 96 | ..... | 5 | 72 45 26 | 72 47 14 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | R..... | 5 | 72 49 2 | | |
| 133 | | 58 0 | 106 14 | 28. | 11 ^h 10' m. à 1 ^h 15' s. | 96 | Lm..... | 5 | 72 39 17 | 72 36 50 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | B..... | 5 | 72 34 24 | | |
| 134 | | 58 28 | 101 36 | 29. | 11 ^h 30' m. à 2 ^h 15' s. | 96 | Lm..... | 5 | 73 2 52 | 72 59 47 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | Frey..... | 5 | 72 56 43 | | |
| 135 | | 56 34 | 91 24 | 31. | 1 ^h 30' à 4 ^h soir. | 192 | Lm..... | 5 | 69 34 35 | 69 34 38 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 192 | G..... | 5 | 69 34 42 | | |
| | | | | Février, | | | | | | | |
| 136 | | 55 46 | 81 57 | 3. | 1 ^h 20' à 3 ^h 20' s. | 96 | Lm..... | 5 | 66 44 40 | 66 49 23 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | Fr..... | 5 | 66 54 6 | | |
| 137 | | 55 56 | 70 2 | 6. | 2 ^h à 4 ^h s. | 96 | Lm..... | 5 | 63 9 31 | 65 6 5 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | R..... | 5 | 65 2 39 | | |
| 138 | | 51 1 | 69 1 | 9. | 3 ^h 5' à 4 ^h 30' soir. | 96 | Frey..... | 5 | 60 42 11 | 60 47 32 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | Lm..... | 5 | 60 52 54 | | |
| | | 50 27 | 67 16 | 10. | 1 ^h à 2 ^h 40' soir. | 96 | ..... | 5 | 57 25 2 | 57 26 46 | Nord. |
| | | | | <i>Idem.</i> | <i>Idem.</i> | 96 | G..... | 5 | 57 28 31 | | |

VOYAGE AUTOUR DU MONDE.

| NU- MÉRO d'or- dre. | PARAGE où l'observation a été faite. | | ÉPOQUE. | | NOMBRE des observa- tions par- tielles. | NOM des OBSERVATEURS. | NOM de l'aiguille | INCLINAISON DE L'AIGUILLE AIMANTÉE. | | | REMARQUES. |
|------------------------------|--|------------------------|-----------------------------------|------------------------------------|--|-----------------------------|-------------------------|--|-----------|-------------------|------------|
| | Nom de la localité. | Position géographique. | DATE. | HEURE. | | | | Corrigée définitivem. | Moyenne. | Pointe élevée. | |
| | | Latitude. | Longitude comptée de Paris. | | | | | | | | |
| 139 | Îles Malouines. Baie-Française. | Sud. | Ouest. | 1820. Avril, 6. | 9 ^h 50' m. à midi 40' | 192 | Frey..... | 0 | 55°24'46" | | |
| | | | | Idem. | Idem. | 192 | Frey..... | 0 | 55 25 33 | | |
| | | | | Idem. | Idem. | 192 | Lm..... | 0 | 55 22 48 | | |
| | | | | Idem. | Idem. | 192 | ..... | 0 | 55 24 52 | | |
| | | | | Idem. | 2 ^h 15' à 5 ^h soir. | 384 | ..... | 1 | 55 17 8 | | |
| | | | | Idem. | Idem. | 384 | R..... | 1 | 55 23 29 | | |
| | | | | 7. | 1 ^h 35' à 3 ^h 40' soir. | 384 | Lm..... | 2 | 55 22 11 | 55°20' 7" | Nord. |
| | | | | Idem. | Idem. | 384 | R..... | 2 | 55 25 33 | | |
| | | | | 8. | 10 ^h 15' m. à 1 ^h soir. | 384 | Lm..... | 3 | 55 17 27 | | |
| | | | | Idem. | Idem. | 334 | Db..... | 3 | 55 15 44 | | |
| 140 | Montevideo. Rio de la Plata. | 34 54 | 58 34 | commencé 9. 15. { | 384 | Lm..... | 4 | 54 59 13 | | | |
| | | | | Mai, 16. | 144 | Frey..... | 4 | 55 22 38 | | | |
| | | | | Mai, 16. | (a) | | | | | | |
| | | | | Midi à 1 ^h 30' soir. | 192 | ..... | 1 | 36 51 44 | | | |
| | | | | Juin, 1 ^{er} . | 192 | Lm..... | 0 | 36 41 48 | 36 46 51 | | |
| | | | | Idem. | 192 | B..... | 0 | 36 47 1 | | | |
| | | | | | 576 | | | | | | |
| | | | | Août, 6. | 2 ^h 50' à 4 ^h 25' soir. | 288 | Frey..... | 1 | 14 31 5 | | |
| | | | | Idem. | Idem. | 288 | Dp..... | 1 | 14 34 25 | | |
| | | | | 29. | 1 ^h 10' à 3 ^h soir. | 192 | Frey..... | 2 | 14 47 57 | | |
| 141 | Rio de Janeiro. (2 ^e relâche.) | 22 55 | 45 38 | Idem. | Idem. | 192 | ..... | 2 | 14 45 27 | 14 42 43 | Nord. |
| | | | | Septemb. 1 ^{er} . | 11 ^h 20' m. à 1 ^h 30' s. | 192 | ..... | 3 | 14 46 25 | | |
| | | | | Idem. | Idem. | 192 | ..... | 3 | 14 46 47 | | |
| | | | | Idem. | 3 ^h à 4 ^h s. | 192 | ..... | 4 | 14 44 33 | | |
| | | | | Idem. | Idem. | 192 | ..... | 4 | 14 45 2 | | |
| | | | | | (b) | | | | | | |
| | | | | | | | | | | | |

(a) La somme de toutes les observations partielles d'inclinaison faites aux Malouines est de 9 640.

(b) La somme de toutes les observations partielles d'inclinaison, faites à Rio de Janeiro (2^e relâche), est de 1 738.

CHAPITRE VI.

DÉCLINAISONS DE L'AIGUILLE AIMANTÉE.

§ 1^{er}. — *Expériences faites à terre.*

| ÉPOQUE. | | AIGUILLES N° 10 ET 11 DE LA BOUSSOLE TERRESTRE. | | | | REMARQUES. |
|---|------------------------------|---|--------------------------------------|--------------------------------------|--------------------|--------------------|
| DATE. | HEURE. | OBSERVATEURS. | DÉCLINAISON MAGNÉTIQUE. | | | |
| | | | Avant le retournement de l'aiguille. | Après le retournement de l'aiguille. | Résultat moyen. | Résultat vrai. |
| LAZARET, SAINTE-CROIX, ILE DE TÉNÉRIFFE (CANARIES). | | | | | | |
| 1817. Octobre, 26. | 11 ^h 0' matin. | Lc. Fb. | N. 21° 46' 53". O. | N. 21° 32' 39". O. | | |
| | | | 21 45 33 | 21 20 29 | | |
| | | | 21 44 41 | 21 28 21 | | |
| | | | 21 46 8 | 21 32 37 | | |
| | | | 21 42 53 | 21 32 19 | N. 21° 35' 38". O. | N. 21° 28' 38". O. |
| | | | 21 42 22 | 21 23 37 | | |
| | | | 21 40 35 | 21 23 22 | | |
| | | | 21 41 30 | " | | |
| | | | | | | |
| | | | N. 21 43 49. O. | N. 21 27 38. O. | | |
| | | | | | | |
| | 4 ^h 30' soir. | Frey. Lc. | N. 20 38 57. O. | N. 20 53 18. O. | | |
| | | | 20 42 13 | 20 52 33 | | |
| | | | 20 37 25 | 20 51 8 | N. 20 46 7,5. O. | N. 20 39 7,5. O. |
| | | | 20 41 55 | 20 50 48 | | |
| | | | 20 41 56 | " | | |
| | | | | | | |
| | | | N. 20 40 18. O. | N. 20 51 57. O. | | |

(*) Pour arriver du résultat moyen au résultat vrai, il a fallu corriger celui-là de l'erreur de collimation de la boussole terrestre $\pm 7'$; le premier signe convient pour les déclinaisons N. E.; le second pour celles N. O.

Ces remarques sont applicables à toutes les déclinaisons suivantes concues avec cette même boussole.

Aiguille n° 11.

N. B. L'aiguille n° 10 appartient à cette deuxième expérience. N'ayant pu déterminer de ligne animatale, on dirigeait la lunette de l'instrument sur le bord oriental du soleil; les heures correspondantes ont servi à calculer les hauteurs, et, par suite, les animata vrais de l'astre.

Aiguille n° 10.

VOYAGE AUTOUR DU MONDE.

| | | DÉCLINAISON DES AIGUILLES N° 10 ET 11 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | | |
|---|------------------------|--|--|--|--|--------------|--------|---|--|--|-----------------|--|--|
| DATES et HEURES. | OBSERVATEURS. | ASIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | ASIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. | | |
| | | Avant le retournement, | | Après le retournement, | | Angle moyen. | | | Apparente. | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | Angle moyen. | Vraie. | | Vraie. | | | | |
| 1817. Déc. 24, de 2 ^h à 4 ^h soir. | Lm. Lb. B. P. | Du N. à l'E. 0° 15' 0 20 0 18 0 15 0 15 0 15 0 17 0 15 0 20 0 10 | Du S. à l'O. 0° 15' 0 17 0 18 0 15 0 20 0 12 0 17 0 15 0 20 0 10 | Du N. à l'E. 0° 28' 0 30 0 35 0 20 0 30 0 25 0 32 0 28 0 20 0 30 | Du S. à l'O. 0° 10' 0 20 0 10 0 17 0 15 0 20 0 12 0 20 0 25 0 25 | | | N. 0° 19' 27", 5. E. N. 2° 26' 37", 7. E. N. 2° 7' 10", 2. E. N. 2° 14' 10", 2. E. | | | Aiguille n° 11. | | |
| | | 0° 16' | 0° 15' 54" | 0° 27' 48" | 0° 17' 24" | | | | | | | | |
| 24, de 2 ^h à 4 ^h du soir. | Lm. Ld. B. P. | 0 25 0 20 0 17 0 15 0 25 0 17 0 25 0 13 0 25 0 17 | 0 20 0 20 0 20 0 20 0 25 0 20 0 17 0 27 0 22 0 20 | 0 20 0 25 0 20 0 20 0 25 0 20 0 20 0 27 0 22 0 28 | 0 15 0 15 0 12 0 15 0 15 0 12 0 12 0 16 0 12 0 17 | | | N. 0° 10' 1", 5. E. N. 2° 26' 37", 7. E. N. 2° 7' 36", 2. E. N. 2° 14' 36", 2. E. | | | Aiguille n° 10. | | |
| | | 0° 19' 54" | 0° 19' 24" | 0° 22' 42" | 0° 14' 6" | | | | | | | | |
| à 4 ^h du soir. | | 0 10 0 5 0 7 0 8 0 3 0 5 0 12 0 10 0 8 0 8 | 0 3 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 1 0 0 | 0 17 0 15 0 17 0 17 0 15 0 17 0 17 0 16 0 12 0 15 | 0 32 0 30 0 27 0 32 0 30 0 28 0 28 0 17 0 20 0 27 | | | N. 0° 12' 46", 5. E. N. 2° 26' 37", 7. E. N. 2° 13' 51", 2. E. N. 2° 20' 51", 2. E. | | | Aiguille n° 10. | | |
| | | 0° 7' 36" | 0° 0' 36" | 0° 15' 48" | 0° 27' 6" | | | | | | | | |
| 26, 10 ^h 30' du mat. | Frey. | 0 20 0 25 0 17 0 20 0 25 0 22 0 18 0 27 0 28 0 29 | 0 10 0 20 0 10 0 8 0 16 0 12 0 10 0 15 0 19 0 16 | 0 25 0 20 0 18 0 27 0 30 0 28 0 25 0 22 0 22 0 27 | 0 20 0 25 0 28 0 30 0 32 0 30 0 30 0 28 0 28 0 32 | | | N. 0° 22' 36", E. N. 2° 26' 37", 7. E. N. 2° 4' 1", 7. E. N. 2° 9' 1", 7. E. | | | Aiguille n° 10. | | |
| | | 0° 24' 6" | 0° 13' 36" | 0° 24' 24" | 0° 28' 18" | | | | | | | | |

En sus de l'erreur de collimation, qui est ici additive, cette déclinaison apparente a été diminuée de 2°; car au lieu d'observer la pause du mât de pavillon, dont l'azimut avait été déterminé astronomiquement, on a observé le pied de ce mât, dont l'azimut diffère de 2° du précédent.

DÉCLINAISON DES AIGUILLES N° 10 ET 11 DE LA BOUSSOLE TERRESTRE.

| ATE S et EVES. OBSERVATION. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. Apparente. Vraie. | REMARQUES. | | | |
|---|-------------------------------|---------------|------------------------|---------------|-------------------------------|--|-----------------|--|--|--|
| | Avant le retournement, | | Après le retournement, | | | | | | | |
| | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| 818. Frey. lars, 12, 7'30' du matin. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | Aiguille n° 11. | | | |
| | 11° 50' | 11° 58' | 11° 45' | 11° 40' | | | | | | |
| | 12 5 | 12 15 | 11 55 | 11 50 | | | | | | |
| | 12 0 | 12 5 | 11 40 | 11 45 | | | | | | |
| | 12 0 | 12 5 | 11 55 | 11 55 | | | | | | |
| | 11 58 | 12 3 | 11 50 | 11 50 | | | | | | |
| | 11 55 | 12 0 | 11 40 | 11 45 | | | | | | |
| | 12 0 | 12 5 | 11 55 | 11 50 | | | | | | |
| | 11 55 | 12 0 | 12 0 | 11 58 | | | | | | |
| | 11 55 | 12 0 | 11 40 | 11 40 | | | | | | |
| | 12 0 | 12 5 | 11 45 | 11 40 | | | | | | |
| | 11° 57' 48" | 12° 3' 36" | 11° 48' 30" | 11° 47' 18" | | | | | | |
| 1 ^{er} du matin. | Frey. | 11° 55' | 11° 57' | 11° 58' | 12° 0' | | | | | |
| | | 12 0 | 12 0 | 11 50 | 12 0 | | | | | |
| | | 11 55 | 11 55 | 11 50 | 11 55 | | | | | |
| | | 12 0 | 12 0 | 11 45 | 11 50 | | | | | |
| | | 11 55 | 11 55 | 11 40 | 11 45 | | | | | |
| | | 11 50 | 11 50 | 11 55 | 12 0 | | | | | |
| | | 11 50 | 11 50 | 11 55 | 11 58 | | | | | |
| | | 11 55 | 11 55 | 12 0 | 12 3 | | | | | |
| | | 11 48 | 11 48 | 12 0 | 12 0 | | | | | |
| | | 12 0 | 12 0 | 11 45 | 11 50 | | | | | |
| | | 11° 54' 48" | 11° 55' 0" | 11° 51' 48" | 11° 55' 48" | | | | | |

VOYAGE AUTOUR DU MONDE.

| DATES et HEURES. | | DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | REMARQUES. | |
|---|---------------|---|---------------|------------------------|---------------|-------------------------------|--|------------|--|
| OBSERVATEUR. | | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. Apparente. Vraie. | | |
| | | Avant le retournement, | | Après le retournement, | | Angle moyen. | | | |
| angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| EXPÉRIENCES FAITES AU PORT-LOUIS (ÎLE-DE-FRANCE). | | | | | | | | | |
| 1818. | Dp. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | | |
| Mai, 28, de 11 ^h matin à 11 ^h 45'. | | 54° 35' | 54° 25' | 54° 30' | 54° 25' | | | | |
| | | 54 30 | 54 15 | 54 25 | 54 30 | | | | |
| | | 54 50 | 54 30 | 54 35 | 54 40 | | | | |
| | | 54 35 | 54 45 | 54 35 | 54 37 | | | | |
| | | 54 30 | 54 25 | 54 40 | 54 30 | | | | |
| | | 54 30 | 54 25 | 54 35 | 54 40 | | | | |
| | | 54 20 | 54 30 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 30 | 54 35 | 54 35 | | | | |
| | | 54 30 | 54 35 | 54 35 | 54 40 | | | | |
| | | 54 40 | 54 30 | 54 35 | 54 40 | | | | |
| | | 54 35 | 54 35 | 54 40 | 54 45 | | | | |
| | | 54 35 | 54 30 | 54 35 | 54 35 | | | | |
| | | 54 30 | 54 25 | 54 30 | 54 35 | | | | |
| | | 54 35 | 54 35 | 54 35 | 54 40 | | | | |
| | | 54 40 | 54 30 | 54 35 | 54 40 | | | | |
| | | 54 35 | 54 35 | 54 40 | 54 45 | | | | |
| | | 54 35 | 54 30 | 54 35 | 54 35 | | | | |
| | | 54 30 | 54 25 | 54 30 | 54 35 | | | | |
| | | 54 35 | 54 30 | 54 35 | 54 40 | | | | |
| | | 54 30 | 54 25 | 54 30 | 54 35 | | | | |
| | | 54 35 | 54 30 | 54 35 | 54 40 | | | | |
| | | 54 30 | 54 20 | 54 30 | 54 35 | | | | |
| | | 54 30 | 54 25 | 54 35 | 54 40 | | | | |
| | | 54 35 | 54 30 | 54 35 | 54 40 | | | | |
| | | 54 20 | 54 15 | 54 35 | 54 35 | | | | |
| | | 54 25 | 54 15 | 54 45 | 54 45 | | | | |
| | | 54° 32' 12" | 54° 27' 36" | 54° 36' 0" | 54° 38' 52",8 | | | | |
| | | 54 30 | 54 30 | 54 40 | 54 45 | | | | |
| | | 54 30 | 54 25 | 54 40 | 54 45 | | | | |
| | | 54 30 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 30 | 54 25 | 54 30 | 54 25 | | | | |
| | | 54 30 | 54 35 | 54 35 | 54 35 | | | | |
| | | 54 30 | 54 30 | 54 40 | 54 35 | | | | |
| | | 54 25 | 54 25 | 54 40 | 54 35 | | | | |
| | | 54 30 | 54 30 | 54 45 | 54 45 | | | | |
| | | 54 30 | 54 30 | 54 45 | 54 45 | | | | |
| | | 54 35 | 54 30 | 54 40 | 54 50 | | | | |
| | | 54 25 | 54 30 | 54 45 | 54 50 | | | | |
| | | 54 30 | 54 25 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 30 | 54 30 | 54 45 | 54 50 | | | | |
| | | 54 30 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 35 | 54 30 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 30 | 54 30 | 54 45 | 54 50 | | | | |
| | | 54 30 | 54 25 | 54 40 | 54 45 | | | | |
| | | 54 35 | 54 30 | 54 45 | 54 50 | | | | |
| | | 54 35 | 54 30 | 54 45 | 54 50 | | | | |
| | | 54 30 | 54 25 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 20 | 54 40 | 54 45 | | | | |
| | | 54 25 | 54 25 | 54 45 | 54 50 | | | | |
| | | 54 25 | 54 | | | | | | |

DÉCLINAISON DES AIGUILLES N° 10 ET 11 DE LA BOUSSOLE TERRESTRE.

| DATES et HEURES. et OBSERVATEUR | ASINUT MAGNÉTIQUE DE LA MIRE. | | | | | | REMARQUES. | |
|--|-------------------------------|--------------|------------------------|---------------|--------------|-------------------------------|--|-----------------|
| | Avant le retournement, | | Après le retournement, | | Angle moyen. | ASINUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | |
| | angle direct. | angle opposé | angle direct. | angle opposé. | | | | |
| 1818. Mai, le 28, à 7 ^h du matin. | Frey. Dp. Fb. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | Aiguille n° 11. |
| | | 54° 50' | 54° 50' | 55° 5' | 55° 10' | | | |
| | | 54 50 | 54 50 | 55 0 | 55 7 | | | |
| | | 54 50 | 54 55 | 55 3 | 55 0 | | | |
| | | 55 0 | 55 0 | 54 50 | 54 55 | | | |
| | | 54 40 | 54 45 | 54 28 | 54 30 | | | |
| | | 54 45 | 54 50 | 54 45 | 54 45 | | | |
| | | 54 55 | 55 0 | 54 50 | 54 50 | | | |
| | | 55 0 | 55 5 | 54 45 | 54 45 | | | |
| | | 54 50 | 54 55 | 55 10 | 55 5 | | | |
| | | 54 45 | 54 45 | 55 5 | 55 0 | | | |
| | | 54 45 | 54 45 | 54 55 | 54 55 | | | |
| | | 54 50 | 54 55 | 54 55 | 54 50 | | | |
| | | 54 50 | 54 50 | 54 50 | 54 55 | | | |
| | | 54 45 | 54 40 | 54 50 | 54 50 | | | |
| | | 54 55 | 54 50 | 54 50 | 54 45 | | | |
| | | 54 45 | 54 45 | 54 50 | 54 50 | | | |
| | | 54 55 | 54 50 | 54 45 | 54 45 | | | |
| | | 54 50 | 54 45 | 54 40 | 54 40 | | | |
| | | 54 45 | 54 45 | 54 45 | 54 50 | | | |
| | | 54 40 | 54 45 | 54 55 | 54 55 | | | |
| | | 54 40 | 54 35 | 55 0 | 54 50 | | | |
| | | 54 40 | 54 35 | 55 5 | 55 0 | | | |
| | | 54 40 | 54 45 | 54 40 | 54 45 | | | |
| | | 54 42 | 54 45 | 54 55 | 54 50 | | | |
| | | 54 42 | 54 45 | 54 40 | 54 45 | | | |
| | | 54 30 | 54 30 | 54 50 | 55 0 | | | |
| | | 54 50 | 54 50 | 54 45 | 55 5 | | | |
| | | 54 25 | 54 30 | 54 50 | 55 0 | | | |
| | | 54 30 | 54 32 | 54 45 | 54 50 | | | |
| | | 54° 45' 38" | 54° 50' 40" | 54° 51' 13".3 | 54° 53' 4" | | | |

EXPÉRIENCES FAITES À SAINT-DENIS (ÎLE BOURBON).

| DATES et HEURES. et OBSERVATEUR | Lc. | ASINUT MAGNÉTIQUE DE LA MIRE. | | | | REMARQUES. | |
|---|-----|-------------------------------|--------------|------------------------|---------------|------------|--|
| | | Avant le retournement, | | Après le retournement, | | | |
| | | angle direct. | angle opposé | angle direct. | angle opposé. | | |
| 1818. illet, le 7 ^h du matin. | | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | |
| | | 96° 40' | 96° 10' | 97° 0' | 96° 35' | | |
| | | 96 40 | 96 7 | 96 53 | 96 32 | | |
| | | 96 42 | 96 10 | 97 0 | 96 36 | | |
| | | 96 35 | 96 19 | 97 0 | 96 35 | | |
| | | 96 40 | 96 7 | 97 0 | 96 35 | | |
| | | 97 57 | 97 50 | 97 52 | 97 47 | | |
| | | 97 55 | 97 52 | 97 55 | 97 50 | | |
| | | 98 0 | 97 52 | 97 55 | 97 47 | | |
| | | 98 0 | 97 55 | 97 52 | 97 45 | | |
| | | 98 0 | 97 55 | 97 50 | 97 47 | | |
| | | 97° 18' 54" | 97° 0' 48" | 97° 25' 42" | 97° 10' 54" | | |

| DATES et HEURES. | OBSERVATION. | DÉCLINAISON DES AIGUILLES N° 10 ET 11 DE LA BOUSSOLE TERRESTRE. | | | | | | REMARQUES. |
|---|---------------|---|---------------|------------------------|---|--|--|------------|
| | | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | |
| | | Avant le retournement, | | Après le retournement, | | | Apparente. | Vraie. |
| angle direct. | angle opposé. | angle direct. | angle opposé. | Angle moyen. | | | | |
| OBSERVATIONS FAITES À LA BAIE DES CHIENS-MARINS, PRESQU'ILE PÉRON (NOUVELLE-HOLLANDE). | | | | | | | | |
| 1818. Sept. 23. | P. Fb. | Du S. à l'O. | Du S. à l'O. | | | | | |
| | | 6° 10' | " | 6° 0' | " | | | |
| | | 6 30 | " | 6 15 | " | | | |
| | | 5 55 | " | 6 30 | " | | | |
| | | 5 50 | " | 6 0 | " | | | |
| | | 5 45 | " | 6 5 | " | | | |
| | | 6 15 | " | 6 0 | " | | | |
| | | 6 10 | " | 6 30 | " | | | |
| | | 6 0 | " | 6 20 | " | | | |
| | | 5 55 | " | 6 30 | " | | | |
| | | 6 20 | " | 6 0 | " | | | |
| | | 6 15 | " | 6 15 | " | S. 6° 24' 36". O. S. 2° 24' 39", 8. O. N. 3° 59' 56", 2. O. N. 3° 52' 56", 2. O. | | |
| | | 6 10 | " | 6 40 | " | | | |
| | | 6 10 | " | 6 50 | " | | | |
| | | 6 0 | " | 6 30 | " | | | |
| | | 6 0 | " | 6 15 | " | | | |
| | | 6 0 | " | 6 30 | " | | | |
| | | 6 15 | " | 6 45 | " | | | |
| | | 5 50 | " | 6 30 | " | | | |
| | | 6 0 | " | 6 15 | " | | | |
| | | 6 15 | " | 6 20 | " | | | |
| | | 6° 5' 2", 0 | " | 6° 21' 0" 6 5 12 | " | | | |
| | | Angle moyen... | 6 13 6 | | | | | |
| | | Correction d'excentricité. | + 11 30 | | | | | |
| | | Azimut magnétique moy. de la mire..... | 6 24 36 | | | | | |
| | Fb.P. | 6° 50' | " | 5° 0' | " | | | |
| | | 7 10 | " | 5 30 | " | | | |
| | | 7 0 | " | 5 0 | " | | | |
| | | 7 0 | " | 5 15 | " | | | |
| | | 7 0 | " | 5 0 | " | | | |
| | | 6 50 | " | 5 30 | " | | | |
| | | 6 50 | " | 4 55 | " | | | |
| | | 7 0 | " | 5 0 | " | | | |
| | | 7 10 | " | 5 0 | " | | | |
| | | 7 0 | " | 5 0 | " | | | |
| | | 7 0 | " | 5 30 | " | S. 6° 24' 52". O. S. 2° 24' 39", 8. O. N. 4° 0' 52", 5. O. N. 3° 53' 52", 5. O. | | |
| | | 7 10 | " | 5 20 | " | | | |
| | | 7 10 | " | 4 55 | " | | | |
| | | 6 50 | " | 5 30 | " | | | |
| | | 7 0 | " | 5 15 | " | | | |
| | | 7 0 | " | 5 10 | " | | | |
| | | 7 10 | " | 5 20 | " | | | |
| | | 7 10 | " | 5 0 | " | | | |
| | | 7 0 | " | 5 20 | " | | | |
| | | 7 15 | " | 5 10 | " | | | |
| | | 7° 1' 45" | " | 5° 11' 0" 7 1 45 | " | | | |
| | | Angle moyen... | 6 6 22,5 | | | | | |
| | | Correction d'excentricité. | + 18 30,0 | | | | | |
| | | Azimut magnétique moy. de la mire..... | 6 24 52 | | | | | |

| DÉCLINAISON DES AIGUILLES N° 10 ET 11 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | |
|---|----------|-------------------------------|---------------|------------------------|---------------|------------------|------------------|--|-----------------|-----------------|
| DATES et HEURES. | | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai | | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. |
| | | Avant le retournement, | | Après le retournement, | | Angle moyen. | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | Apparente. | Vraie. | |
| 1818. | R. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | | | Aiguille n° 10. |
| Octob. 12, de 5h 1/2 à 6h 20' du matin. | B. | 34° 25' | 34° 30' | 34° .0' | 34° 0' | | | | | |
| | | 34 15 | 34 26 | 34 5 | 34 0 | | | | | |
| | | 34 20 | 34 30 | 34 5 | 34 0 | | | | | |
| | | 34 20 | 34 30 | 34 0 | 34 0 | | | | | |
| | | 34 10 | 34 25 | 34 10 | 34 5 | | | | | |
| | | 34 25 | 34 30 | 34 10 | 33 55 | | | | | |
| | | 34 15 | 34 25 | 34 5 | 33 55 | | | | | |
| | | 34 10 | 34 28 | 34 0 | 34 0 | | | | | |
| | | 34 15 | 34 25 | 34 0 | 33 58 | | | | | |
| | | 34 20 | 34 20 | 34 20 | 34 0 | | | | | |
| | | 34 15 | 34 25 | 34 15 | 34 0 | | | | | |
| | | 34 10 | 34 25 | 34 15 | 34 0 | | | | | |
| | | 34 10 | 34 25 | 34 10 | 33 58 | S.34°15'58",2.E. | S.34°36'20",6.E. | N.0°20'22",4.O. | N.0°13'22",4.O. | |
| | | 34 15 | 34 20 | 34 10 | 34 0 | | | | | |
| | | 34 10 | 34 20 | 34 5 | 34 0 | | | | | |
| | | 34 15 | 34 25 | 34 10 | 34 0 | | | | | |
| | | 34 5 | 34 20 | 34 5 | 33 58 | | | | | |
| | | 34 10 | 34 25 | 34 0 | 33 58 | | | | | |
| | | 34 15 | 34 30 | 34 5 | 33 58 | | | | | |
| | | 34 10 | 34 25 | 34 5 | 34 0 | | | | | |
| | | 34 20 | 34 25 | 34 0 | 34 0 | | | | | |
| | | 34 15 | 34 20 | 34 5 | 33 58 | | | | | |
| | | 34 5 | 34 20 | 34 10 | 34 0 | | | | | |
| | | 34 5 | 34 20 | 34 5 | 34 0 | | | | | |
| | | 34 10 | 34 25 | 34 5 | 34 0 | | | | | |
| | | 34° 13' 48" | | 34° 25' 9",6 | | 34° 6' 24" | | 34° 18' 31",2 | | |
| 6h 25' du matin. | R. B. | 35 5 | 35 10 | 33 30 | 33 35 | | | | | Aiguille n° 11. |
| | | 35 10 | 35 10 | 33 40 | 33 40 | | | | | |
| | | 35 5 | 35 5 | 33 25 | 33 30 | | | | | |
| | | 35 0 | 35 10 | 33 30 | 33 45 | | | | | |
| | | 35 0 | 35 8 | 33 20 | 32 40 | | | | | |
| | | 35 0 | 35 15 | 33 15 | 33 25 | | | | | |
| | | 34 55 | 35 10 | 33 30 | 33 45 | | | | | |
| | | 34 50 | 35 5 | 33 25 | 32 40 | | | | | |
| | | 35 0 | 35 15 | 33 20 | 33 30 | | | | | |
| | | 35 0 | 35 15 | 33 15 | 33 40 | | | | | |
| | | 35 0 | 35 15 | 33 10 | 33 30 | | | | | |
| | | 35 0 | 35 10 | 33 10 | 33 40 | | | | | |
| | | 35 0 | 35 15 | 33 10 | 33 45 | S.34°15'26",4.E. | S.34°36'20",6.E. | N.0°20'54",2.O. | N.0°13'54",2.O. | |
| | | 34 58 | 35 15 | 33 20 | 33 50 | | | | | |
| | | 34 55 | 35 10 | 33 15 | 33 45 | | | | | |
| | | 34 55 | 35 10 | 33 20 | 33 35 | | | | | |
| | | 34 50 | 35 5 | 33 10 | 33 40 | | | | | |
| | | 34 50 | 35 10 | 33 10 | 33 35 | | | | | |
| | | 34 55 | 35 15 | 33 5 | 33 30 | | | | | |
| | | 35 0 | 35 15 | 33 5 | 33 30 | | | | | |
| | | 34 58 | 35 5 | 33 5 | 33 50 | | | | | |
| | | 35 0 | 35 15 | 33 0 | 33 40 | | | | | |
| | | 35 0 | 35 15 | 33 0 | 33 35 | | | | | |
| | | 34 55 | 35 15 | 33 0 | 33 30 | | | | | |
| | | 35 0 | 35 20 | 33 0 | 33 25 | | | | | |
| | | 34° 58' 26",4 | | 35° 11' 43",2 | | 33° 14' 48" | | 33° 36' 48" | | |

| DATES et HEURES. REMARQUES. | OBSERVATEUR. | DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE. | | | | | | | | REMARQUES. | | |
|--|--------------|---|---------------|------------------------|---------------|--------------------------------|-------------------------------|-------------------------|---------------------|------------|--|--|
| | | ASIMUT MAGNÉTIQUE DE LA MIRE. | | | | ASIMUT magnétique moyen. | ASIMUT vrai de la mire. | DÉCLINAISON | | | | |
| | | Avant le retournement, | | Après le retournement, | | | | ASIMUT | VRAIE | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | de l'aiguille aimantée. | Apparente. | | | |
| 1818. Nov. 19, à 8 ^h 25' du matin. | Dp. | Du N. à l'E. | Du S. à l'O. | Du N. à l'O. | Du S. à l'E. | | | | | | | |
| | | 1° 0' | 1° 0' | 0° 0' | 0° 0' | | | | | | | |
| | | 1 10 | 1 10 | 0 20 | 0 20 | | | | | | | |
| | | 1 5 | 1 5 | 0 20 | 0 20 | | | | | | | |
| | | 1 10 | 1 5 | 0 10 | 0 20 | | | | | | | |
| | | 1 0 | 1 0 | 0 10 | 0 15 | | | | | | | |
| | | 1 10 | 1 10 | 0 5 | 0 10 | | | | | | | |
| | | 1 0 | 1 10 | 0 10 | 0 15 | | | | | | | |
| | | 1 5 | 1 10 | 0 10 | 0 15 | N. 0° 54' 54". E. | N. 0° 10' 19".7. E. | N. 0° 37' 34".3. O. | N. 0° 37' 34".3. O. | | | |
| | | 1 5 | 1 5 | 0 15 | 0 15 | | | | | | | |
| | | 1 10 | 1 10 | 0 10 | 0 10 | | | | | | | |
| | | 1 10 | 1 10 | 0 10 | 0 8 | | | | | | | |
| | | 1 10 | 1 10 | 0 10 | 0 8 | | | | | | | |
| | | 1 5 | 1 8 | 0 10 | 0 15 | | | | | | | |
| | | 1 5 | 1 5 | 0 10 | 0 15 | | | | | | | |
| | | 1 10 | 1 10 | 0 10 | 0 10 | | | | | | | |
| | | | | | | | | | | | | |
| | | 1° 6' 20" | 1° 7' 12" | 0° 10' 40" | 0° 13' 4" | | | | | | | |
| | | | | | | | | | | | | |
| à 9 ^h du matin. | P. | 1 0 | 1 0 | 0 20 | 0 20 | | | | | | | |
| | | 1 15 | 1 15 | 0 10 | 0 10 | | | | | | | |
| | | 1 0 | 1 0 | 0 20 | 0 15 | | | | | | | |
| | | 1 0 | 1 5 | 0 15 | 0 15 | | | | | | | |
| | | 1 5 | 1 0 | 0 20 | 0 20 | | | | | | | |
| | | 1 0 | 1 0 | 0 15 | 0 10 | | | | | | | |
| | | 1 15 | 1 10 | 0 10 | 0 10 | | | | | | | |
| | | 1 0 | 1 0 | 0 10 | 0 5 | N. 0° 52' 10". E. | N. 0° 10' 10".7. E. | N. 0° 41' 50".3. O. | N. 0° 34' 50".3. O. | | | |
| | | 1 0 | 1 0 | 0 20 | 0 20 | | | | | | | |
| | | 1 0 | 1 10 | 0 5 | 0 0 | | | | | | | |
| | | 1 15 | 1 10 | 0 10 | 0 5 | | | | | | | |
| | | 1 15 | 1 15 | 0 15 | 0 10 | | | | | | | |
| | | 1 0 | 1 0 | 0 15 | 0 10 | | | | | | | |
| | | 1 10 | 1 5 | 0 20 | 0 15 | | | | | | | |
| | | 1 5 | 1 0 | 0 10 | 0 5 | | | | | | | |
| | | | | | | | | | | | | |
| | | 1° 5' 20" | 1° 4' 40" | 0° 14' 20" | 0° 11' 20" | | | | | | | |

| DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | | |
|--|--------------|-------------------------------|---------------|------------------------|---------------|---|--|------------|------------|--|--|
| DATES et HEURES. | OBSERVATION. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. | | |
| | | Avant le retournement, | | Après le retournement, | | | Angle moyen. | Apparente. | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| 1818. Déc. 24, de 11 ^h du mat. à midi 20' | Lm. | De l'E. au S. | De l'O. au N. | De l'E. au S. | De l'O. au N. | E. 12° 17' 36", 6.S. S. 76° 16' 25", 6.E. N. 1° 25' 57", 8.E. N. 1° 32' 57", 8.E. | | | | | |
| | | 12° 15' | 12° 20' | 12° 20' | 12° 25' | | | | | | |
| | | 12 7 | 12 7 | 12 20 | 12 25 | | | | | | |
| | | 12 9 | 12 9 | 12 25 | 12 25 | | | | | | |
| | | 12 9 | 12 10 | 12 22 | 12 25 | | | | | | |
| | | 12 10 | 12 8 | 12 20 | 12 20 | | | | | | |
| | | 12 8 | 12 7 | 12 25 | 12 25 | | | | | | |
| | | 12 12 | 12 5 | 12 25 | 12 25 | | | | | | |
| | | 12 8 | 12 7 | 12 25 | 12 25 | | | | | | |
| | | 12 6 | 12 5 | 12 27 | 12 25 | | | | | | |
| | | 12 13 | 12 10 | 12 25 | 12 25 | | | | | | |
| | | 12 13 | 12 7 | 12 25 | 12 25 | | | | | | |
| | | 12 15 | 12 7 | 12 27 | 12 27 | | | | | | |
| | | 12 15 | 12 10 | 12 25 | 12 25 | | | | | | |
| | | 12 12 | 12 10 | 12 27 | 12 27 | | | | | | |
| | | 12 15 | 12 10 | 12 27 | 12 25 | | | | | | |
| | | 12 12 | 12 10 | 12 27 | 12 25 | | | | | | |
| | | 12 10 | 12 7 | 12 25 | 12 25 | | | | | | |
| | | 12 16 | 12 8 | 12 27 | 12 25 | | | | | | |
| | | 12 15 | 12 10 | 12 27 | 12 22 | | | | | | |
| | | 12 10 | 12 7 | 12 27 | 12 22 | | | | | | |
| | | 12 8 | 12 6 | 12 27 | 12 25 | | | | | | |
| | | 12 12 | 12 15 | 12 27 | 12 25 | | | | | | |
| | | 12 12 | 12 6 | 12 27 | 12 25 | | | | | | |
| | | 12 12 | 12 8 | 12 27 | 12 25 | | | | | | |
| | | 12 15 | 12 12 | 12 27 | 12 25 | | | | | | |
| Frey. | | 12 15 | 12 12 | 12 27 | 12 25 | E. 12° 20' 10", 4.S. S. 76° 16' 25", 6.E. N. 1° 23' 24", 0.E. N. 1° 30' 24", 0.E. | | | | | |
| | | 12 12 | 12 10 | 12 27 | 12 27 | | | | | | |
| | | 12 20 | 12 15 | 12 25 | 12 27 | | | | | | |
| | | 12 12 | 12 10 | 12 25 | 12 27 | | | | | | |
| | | 12 20 | 12 15 | 12 25 | 12 27 | | | | | | |
| | | 12 12 | 12 10 | 12 27 | 12 27 | | | | | | |
| | | 12 15 | 12 12 | 12 27 | 12 27 | | | | | | |
| | | 12 18 | 12 15 | 12 25 | 12 27 | | | | | | |
| | | 12 15 | 12 10 | 12 28 | 12 28 | | | | | | |
| | | 12 15 | 12 12 | 12 28 | 12 28 | | | | | | |
| | | 12 18 | 12 15 | 12 28 | 12 28 | | | | | | |
| | | 12 15 | 12 10 | 12 28 | 12 28 | | | | | | |
| | | 12 12 | 12 10 | 12 28 | 12 28 | | | | | | |
| | | 12 18 | 12 15 | 12 28 | 12 28 | | | | | | |
| | | 12 10 | 12 8 | 12 27 | 12 27 | | | | | | |
| | | 12 18 | 12 15 | 12 28 | 12 28 | | | | | | |
| | | 12 12 | 12 10 | 12 27 | 12 28 | | | | | | |
| | | 12 12 | 12 10 | 12 25 | 12 27 | | | | | | |
| | | 12 10 | 12 8 | 12 25 | 12 28 | | | | | | |
| | | 12 12 | 12 10 | 12 25 | 12 27 | | | | | | |
| | | 12 18 | 12 15 | 12 25 | 12 27 | | | | | | |
| | | 12 12 | 12 10 | 12 25 | 12 27 | | | | | | |
| | | 12 18 | 12 15 | 12 27 | 12 27 | | | | | | |
| | | 12 15 | 12 12 | 12 27 | 12 27 | | | | | | |
| | | 12 15 | 12 12 | 12 28 | 12 28 | | | | | | |
| | | 12 18 | 12 15 | 12 25 | 12 27 | | | | | | |

VOYAGE AUTOUR DU MONDE.

| DATES et HEURES. | | DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | | | REMARQUES. | |
|--|-------------------------------|---|------------------------|---------------|-------------------------------|--|---------------------|---------------------|---------------------|------------|--|
| OBSERVATEUR. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | | | | |
| | Avant le retournement, | | Après le retournement, | | | Angle moyen. | Apparente. | Vraie. | | | |
| | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | | |
| EXPÉRIENCES FAITES À L'ÎLE RAWAK. | | | | | | | | | | | |
| 1818. | R. | De l'E. au S. | De l'O. au N. | De l'E. au S. | De l'O. au N. | | | | | | |
| Déc. 24, de 9 ^h 50' à 11 ^h du mat. | | 12° 20' | 12° 45' | 12° 25' | 12° 15' | | | | | | |
| | | 12 20 | 12 45 | 12 20 | 12 15 | | | | | | |
| | | 12 0 | 12 40 | 12 25 | 12 20 | | | | | | |
| | | 12 10 | 12 35 | 12 15 | 12 10 | | | | | | |
| | | 12 20 | 12 45 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 45 | 12 18 | 12 15 | | | | | | |
| | | 12 15 | 12 45 | 12 20 | 12 10 | | | | | | |
| | | 12 25 | 12 40 | 12 20 | 12 10 | | | | | | |
| | | 12 25 | 12 45 | 12 20 | 12 12 | | | | | | |
| | | 12 30 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 25 | 12 40 | 12 15 | 12 8 | | | | | | |
| | | 12 20 | 12 45 | 12 20 | 12 15 | | | | | | |
| | | 12 15 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 15 | 12 35 | 12 15 | 12 10 | E. 12° 22' 56", 6.S. | 8.76° 16' 25", 6.E. | N. 1° 20' 50", 6.E. | N. 1° 27' 56", 6.E. | | |
| | | 12 20 | 12 35 | 12 15 | 12 10 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 15 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 15 | 12 30 | 12 20 | 12 15 | | | | | | |
| | | 12 15 | 12 30 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 15 | 12 35 | 12 20 | 12 10 | | | | | | |
| | | 12 20 | 12 35 | 12 15 | 12 10 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 25 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 20 | 12 15 | | | | | | |
| | | 12 20 | 12 35 | 12 25 | 12 15 | </td | | | | | |

DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE.

| DATES et HEURES. | OBSERVATEUR. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. |
|--|--------------|-------------------------------|---------------|------------------------|---------------|--------------|------------|-------------------------------|--|--|------------|
| | | Avant le retournement, | | Après le retournement, | | Angle moyen. | Apparente. | | Vraie. | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| 1819. Mars, 24, de 3 ^h ₁ à 5 ^h ₂ du soir. | Lm. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | | | | | | |
| | | 24° 40' | 24° 32' | 24° 28' | 24° 42' | | | | | | |
| | | 24 36 | 24 28 | 24 32 | 24 40 | | | | | | |
| | | 24 58 | 24 42 | 24 32 | 24 40 | | | | | | |
| | | 24 52 | 24 44 | 24 28 | 24 32 | | | | | | |
| | | 24 52 | 24 40 | 24 22 | 24 32 | | | | | | |
| | | 24 55 | 24 44 | 24 25 | 24 40 | | | | | | |
| | | 24 50 | 24 38 | 24 28 | 24 40 | | | | | | |
| | | 24 48 | 24 37 | 24 28 | 24 42 | | | | | | |
| | | 24 50 | 24 44 | 24 26 | 24 35 | | | | | | |
| | | 24 42 | 24 38 | 24 32 | 24 44 | | | | | | |
| | | 24 46 | 24 42 | 24 32 | 24 44 | | | | | | |
| | | 24 46 | 24 44 | 24 35 | 24 45 | | | | | | |
| | | 24 45 | 24 44 | 24 32 | 24 42 | | | | | | |
| | | 24 40 | 24 38 | 24 30 | 24 40 | | | | | | |
| | | 24 38 | 24 35 | 24 28 | 24 35 | | | | | | |
| | | 24 43 | 24 41 | 24 28 | 24 35 | | | | | | |
| | | 24° 46' 19" | 24° 20' 41" | 24° 29' 7" | 24° 39' 15" | | | | | | |
| | Frey. | 24 40 | 24 38 | 24 30 | 24 28 | | | | | | |
| | | 24 45 | 24 42 | 24 25 | 24 30 | | | | | | |
| | | 24 45 | 24 43 | 24 25 | 24 32 | | | | | | |
| | | 24 40 | 24 32 | 24 30 | 24 28 | | | | | | |
| | | 24 50 | 24 43 | 24 33 | 24 25 | | | | | | |
| | | 24 50 | 24 43 | 24 23 | 24 32 | | | | | | |
| | | 24 48 | 24 40 | 24 32 | 24 23 | | | | | | |
| | | 24 40 | 24 32 | 24 28 | 24 32 | | | | | | |
| | | 24 45 | 24 35 | 24 32 | 24 28 | | | | | | |
| | | 24 50 | 24 42 | 24 32 | 24 28 | | | | | | |
| | | 24 45 | 24 38 | 24 25 | 24 33 | | | | | | |
| | | 24 40 | 24 30 | 24 22 | 24 32 | | | | | | |
| | | 24 38 | 24 28 | 24 28 | 24 30 | | | | | | |
| | | 24 42 | 24 30 | 24 32 | 24 28 | | | | | | |
| | | 24 38 | 24 28 | 24 25 | 24 30 | | | | | | |
| | | 24 40 | 24 30 | 24 30 | 24 27 | | | | | | |
| | | 24° 43' 30" | 24° 35' 52" | 24° 28' 15" | 24° 29' 7" | | | | | | |

VOYAGE AUTOUR DU MONDE.

| DATES et HEURES. | OBSERVATION. | DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | | | REMARQUES. | |
|---|--------------|---|---------------|------------------------|---------------|---|--|------------|--------|------------|--|
| | | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | | | |
| | | Avant le retournement, | | Après le retournement, | | | Angle moyen. | Apparente. | Vraie. | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| EXPÉRIENCES FAITES À UMATA (ÎLE GUAM). | | | | | | | | | | | |
| 1819. Mars, 25, de 1 ^h à 2 ^h 40' soir. | Lm. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | S. 24° 36' 32". O. S. 27° 11' 35". O. N. 2° 45' 23", O. E. N. 2° 42' 23", O. O. | | | | | |
| | | 24° 40' | 24° 38' | 24° 35' | 24° 40' | | | | | | |
| | | 24 45 | 24 38 | 24 35 | 24 38 | | | | | | |
| | | 24 45 | 24 34 | 24 30 | 24 38 | | | | | | |
| | | 24 48 | 24 38 | 24 20 | 24 34 | | | | | | |
| | | 24 48 | 24 38 | 24 20 | 24 40 | | | | | | |
| | | 24 48 | 24 40 | 24 20 | 24 33 | | | | | | |
| | | 24 50 | 24 40 | 24 25 | 24 40 | | | | | | |
| | | 24 50 | 24 40 | 24 26 | 24 33 | | | | | | |
| | | 24 48 | 24 36 | 24 23 | 24 33 | | | | | | |
| | | 24 50 | 24 38 | 24 23 | 24 35 | | | | | | |
| | | 24 48 | 24 38 | 24 28 | 24 33 | | | | | | |
| | | 24 50 | 24 38 | 24 24 | 24 34 | | | | | | |
| | | 24 46 | 24 32 | 24 23 | 24 30 | | | | | | |
| | | 24 45 | 24 36 | 24 18 | 24 26 | | | | | | |
| | | 24 47 | 24 38 | 24 18 | 24 32 | | | | | | |
| | | 24 50 | 24 40 | 24 20 | 24 32 | | | | | | |
| | | 24° 49' 52" | 24° 37' 37" | 24° 24' 15" | 24° 34' 26" | | | | | | |
| R. | | 24 45 | 24 40 | 24 20 | 24 35 | S. 24° 33' 20". O. S. 27° 11' 35". O. N. 2° 38' 35". E. N. 2° 45' 35". E. | | | | | |
| | | 24 35 | 24 33 | 24 25 | 24 40 | | | | | | |
| | | 24 35 | 24 35 | 24 25 | 24 40 | | | | | | |
| | | 24 30 | 24 35 | 24 20 | 24 35 | | | | | | |
| | | 24 35 | 24 35 | 24 18 | 24 35 | | | | | | |
| | | 24 40 | 24 38 | 24 20 | 24 38 | | | | | | |
| | | 24 35 | 24 30 | 24 25 | 24 40 | | | | | | |
| | | 24 35 | 24 40 | 24 20 | 24 38 | | | | | | |
| | | 24 40 | 24 45 | 24 18 | 24 36 | | | | | | |
| | | 24 40 | 24 40 | 24 20 | 24 38 | | | | | | |
| | | 24 45 | 24 45 | 24 20 | 24 40 | | | | | | |
| | | 24 35 | 24 38 | 24 20 | 24 40 | | | | | | |
| | | 24 40 | 24 40 | 24 22 | 24 40 | | | | | | |
| | | 24 30 | 24 35 | 24 22 | 24 40 | | | | | | |
| | | 24 32 | 24 35 | 24 20 | 24 40 | | | | | | |
| | | 24 35 | 24 38 | 24 20 | 24 40 | | | | | | |
| | | 24° 36' 41" | 24° 37' 19" | 24° 20' 56" | 24° 38' 26" | | | | | | |

DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE.

| N. lors, 15 ¹ 15 ² oir. | Lm. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | Angle moyen. | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. | | | |
|---|-----|-------------------------------|---------------|------------------------|---------------|--------------------|-------------------------------|--|-------------------|------------|--|--|--|
| | | Avant le retournement, | | Après le retournement, | | | | Apparente. | Vraie. | | | | |
| | | angle opposé. | angle direct. | angle opposé. | angle direct. | | | | | | | | |
| EXPÉRIENCES FAITES À UMATA (ÎLE GUAM). | | | | | | | | | | | | | |
| 319. | Lm. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | | | | | | | | |
| | | 24° 40' | 24° 35' | 24° 25' | 24° 28' | | | | | | | | |
| | | 24 40 | 24 35 | 24 26 | 24 30 | | | | | | | | |
| | | 24 40 | 24 35 | 24 25 | 24 30 | | | | | | | | |
| | | 24 35 | 24 35 | 24 28 | 24 30 | | | | | | | | |
| | | 24 36 | 24 33 | 24 25 | 24 30 | | | | | | | | |
| | | 24 35 | 24 35 | 24 25 | 24 30 | | | | | | | | |
| | | 24 40 | 24 38 | 24 28 | 24 30 | | | | | | | | |
| | | 24 35 | 24 35 | 24 28 | 24 30 | | | | | | | | |
| | | 24 38 | 24 36 | 24 25 | 24 28 | S. 24° 32' 25". O. | S. 27° 11' 55". O. | N. 2° 29' 30". E. | N. 2° 46' 30". E. | | | | |
| | | 24 36 | 24 35 | 24 28 | 24 38 | | | | | | | | |
| | | 24 35 | 24 38 | 24 28 | 24 30 | | | | | | | | |
| | | 24 35 | 24 35 | 24 26 | 24 30 | | | | | | | | |
| | | 24 35 | 24 33 | 24 28 | 24 30 | | | | | | | | |
| | | 24 40 | 24 36 | 24 28 | 24 30 | | | | | | | | |
| | | 24 38 | 24 35 | 24 30 | 24 30 | | | | | | | | |
| | | 24 38 | 24 35 | 24 28 | 24 30 | | | | | | | | |
| | | 24 38 | 24 35 | 24 28 | 24 30 | | | | | | | | |
| | | 24 38 | 24 35 | 24 28 | 24 30 | | | | | | | | |
| | | 24° 37' 15" | 24° 35' 15" | 24° 26' 56" | 24° 30' 15" | | | | | | | | |
| R. | | 24 38 | 24 35' | 24° 28' | 24 30 | | | | | | | | |
| | | 24 35 | 24 33 | 24 28 | 24 30 | | | | | | | | |
| | | 24 38 | 24 35 | 24 26 | 24 29 | | | | | | | | |
| | | 24 40 | 24 36 | 24 30 | 24 30 | | | | | | | | |
| | | 24 35 | 24 35 | 24 30 | 24 30 | | | | | | | | |
| | | 24 38 | 24 35 | 24 30 | 24 28 | | | | | | | | |
| | | 24 35 | 24 35 | 24 28 | 24 30 | | | | | | | | |
| | | 24 40 | 24 36 | 24 28 | 24 28 | S. 24° 32' 13". O. | S. 27° 11' 55". O. | N. 2° 29' 42". O. | N. 2° 46' 42". O. | | | | |
| | | 24 35 | 24 35 | 24 26 | 24 28 | | | | | | | | |
| | | 24 35 | 24 35 | 24 30 | 24 30 | | | | | | | | |
| | | 24 32 | 24 34 | 24 30 | 24 28 | | | | | | | | |
| | | 24 38 | 24 35 | 24 28 | 24 28 | | | | | | | | |
| | | 24 35 | 24 35 | 24 28 | 24 28 | | | | | | | | |
| | | 24 38 | 24 36 | 24 30 | 24 30 | | | | | | | | |
| | | 24 32 | 24 33 | 24 30 | 24 29 | | | | | | | | |
| | | 24 40 | 24 32 | 24 29 | 24 29 | | | | | | | | |
| | | 24° 36' 30" | 24° 34' 41" | 24° 28' 41" | 24° 29' 3" | | | | | | | | |

| DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | | | | |
|--|-----------------------|-------------------------------|---------------|------------------------|---------------|---|--|-------------------------------|--|------------|--|--|--|
| DATES et HEURES. | OBSERVAT. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. Apparente. Vraie. | REMARQUES. | | | |
| | | Avant le retournement, | | Après le retournement, | | Angle moyen. | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | | | |
| 1819. Avril, 23, de 2 ^h 5' à 2 ^h 30' soir, et de 3 ^h à 3 ^h 45'. | Frey. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | | | | | | | | |
| | | Pointe N. attirée. | | | | | | | | | | | |
| | | 88 2 | 88 4 | 87 34 | 87 41 | | | | | | | | |
| | | 88 2 | 88 4 | 87 35 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 35 | 87 44 | | | | | | | | |
| | | 88 0 | 88 2 | 87 37 | 87 45 | | | | | | | | |
| | | 88 1 | 88 2 | 87 38 | 87 45 | | | | | | | | |
| | | 88 2 | 88 4 | 87 37 | 87 44 | | | | | | | | |
| | | 88 2 | 88 5 | 87 36 | 87 43 | | | | | | | | |
| | | 88 0 | 88 2 | 87 35 | 87 42 | | | | | | | | |
| | | 88 2 | 88 3 | 87 38 | 87 45 | | | | | | | | |
| | | 88 0 | 88 2 | 87 35 | 87 41 | | | | | | | | |
| | | 88 2 | 88 5 | 87 35 | 87 43 | | | | | | | | |
| | | 88 2 | 88 5 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 44 | | | | | | | | |
| | | | | | | S. 87° 51' 0", 5.O. N. 87° 37' 20", 5.O. N. 4° 31' 30". E. N. 4° 38' 30". E. | | | | | | | |
| | | Pointe N. repoussée. | | | | | | | | | | | |
| | | 88 2 | 88 4 | 87 34 | 87 41 | | | | | | | | |
| | | 88 0 | 88 4 | 87 35 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 35 | 87 44 | | | | | | | | |
| | | 88 0 | 88 2 | 87 37 | 87 45 | | | | | | | | |
| | | 88 1 | 88 2 | 87 38 | 87 45 | | | | | | | | |
| | | 88 2 | 88 4 | 87 37 | 87 44 | | | | | | | | |
| | | 88 2 | 88 5 | 87 36 | 87 43 | | | | | | | | |
| | | 88 0 | 88 1 | 87 34 | 87 42 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 4 | 87 35 | 87 41 | | | | | | | | |
| | | 88 2 | 88 3 | 87 37 | 87 45 | | | | | | | | |
| | | 88 1 | 88 3 | 87 36 | 87 43 | | | | | | | | |
| | | 88 1 | 88 3 | 87 35 | 87 43 | | | | | | | | |
| | | 88 1 | 88 2 | 87 37 | 87 44 | | | | | | | | |
| | | 88 0 | 88 2 | 87 36 | 87 44 | | | | | | | | |
| | | | | | | S. 87° 50' 36". O. N. 87° 37' 20", 5.O. N. 4° 32' 3", 5.E. N. 4° 30' 3", 5.E. | | | | | | | |
| | | Pointe N. attirée. | | | | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 0 | 88 1 | 87 37 | 87 43 | | | | | | | | |
| | | 88 0 | 88 1 | 87 37 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 1 | 88 1 | 87 37 | 87 44 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 43 | | | | | | | | |
| | | 88 1 | 88 2 | 87 34 | 87 40 | | | | | | | | |
| | | 88 0 | 88 1 | 87 35 | 87 41 | | | | | | | | |
| | | 88 2 | 88 4 | 87 35 | 87 41 | | | | | | | | |
| | | 88 2 | 88 2 | 87 36 | 87 42 | | | | | | | | |
| | | | | | | S. 87° 51' 0", 5.O. N. 87° 37' 20", 5.O. N. 4° 31' 30". E. N. 4° 38' 30". E. | | | | | | | |
| | | Pointe N. repoussée. | | | | | | | | | | | |
| | | 88 0 | 88 1 | 87 35 | 87 41 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 4 | 87 37 | 87 44 | | | | | | | | |
| | | 88 2 | 88 2 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 4 | 87 37 | 87 43 | | | | | | | | |
| | | 88 4 | 88 4 | 87 37 | 87 44 | | | | | | | | |
| | | 88 3 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 36 | 87 42 | | | | | | | | |
| | | 88 0 | 88 1 | 87 37 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 35 | 87 41 | | | | | | | | |
| | | 88 1 | 88 2 | 87 35 | 87 42 | | | | | | | | |
| | | 88 3 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 37 | 87 44 | | | | | | | | |
| | | 88 3 | 88 4 | 87 35 | 87 41 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 42 | | | | | | | | |
| | | | | | | S. 87° 50' 36". O. N. 87° 37' 20", 5.O. N. 4° 32' 3", 5.E. N. 4° 30' 3", 5.E. | | | | | | | |
| | | Pointe N. repoussée. | | | | | | | | | | | |
| | | 88 0 | 88 1 | 87 35 | 87 41 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 4 | 87 37 | 87 44 | | | | | | | | |
| | | 88 2 | 88 2 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 4 | 87 37 | 87 43 | | | | | | | | |
| | | 88 4 | 88 4 | 87 37 | 87 44 | | | | | | | | |
| | | 88 3 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 36 | 87 42 | | | | | | | | |
| | | 88 0 | 88 1 | 87 37 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 35 | 87 41 | | | | | | | | |
| | | 88 1 | 88 2 | 87 35 | 87 42 | | | | | | | | |
| | | 88 3 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 37 | 87 44 | | | | | | | | |
| | | 88 3 | 88 4 | 87 35 | 87 41 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 42 | | | | | | | | |
| | | | | | | S. 87° 51' 0", 5.O. N. 87° 37' 20", 5.O. N. 4° 31' 30". E. N. 4° 38' 30". E. | | | | | | | |
| | | Pointe N. attirée. | | | | | | | | | | | |
| | | 88 0 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 0 | 88 1 | 87 37 | 87 44 | | | | | | | | |
| | | 88 0 | 88 2 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 3 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 1 | 88 1 | 87 37 | 87 44 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 35 | 87 41 | | | | | | | | |
| | | 88 1 | 88 2 | 87 35 | 87 42 | | | | | | | | |
| | | 88 3 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 37 | 87 44 | | | | | | | | |
| | | 88 3 | 88 4 | 87 35 | 87 41 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 42 | | | | | | | | |
| | | | | | | S. 87° 50' 36". O. N. 87° 37' 20", 5.O. N. 4° 32' 3", 5.E. N. 4° 30' 3", 5.E. | | | | | | | |
| | | Pointe N. repoussée. | | | | | | | | | | | |
| | | 88 0 | 88 1 | 87 35 | 87 41 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 4 | 87 37 | 87 44 | | | | | | | | |
| | | 88 2 | 88 2 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 4 | 87 37 | 87 43 | | | | | | | | |
| | | 88 4 | 88 4 | 87 37 | 87 44 | | | | | | | | |
| | | 88 3 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 36 | 87 42 | | | | | | | | |
| | | 88 0 | 88 1 | 87 37 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 35 | 87 41 | | | | | | | | |
| | | 88 1 | 88 2 | 87 35 | 87 42 | | | | | | | | |
| | | 88 3 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 37 | 87 44 | | | | | | | | |
| | | 88 3 | 88 4 | 87 35 | 87 41 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 42 | | | | | | | | |
| | | | | | | S. 87° 51' 0", 5.O. N. 87° 37' 20", 5.O. N. 4° 31' 30". E. N. 4° 38' 30". E. | | | | | | | |
| | | Pointe N. attirée. | | | | | | | | | | | |
| | | 88 0 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 0 | 88 1 | 87 37 | 87 44 | | | | | | | | |
| | | 88 0 | 88 2 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 3 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 1 | 88 2 | 87 35 | 87 41 | | | | | | | | |
| | | 88 3 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 37 | 87 44 | | | | | | | | |
| | | 88 3 | 88 4 | 87 35 | 87 41 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 42 | | | | | | | | |
| | | | | | | S. 87° 50' 36". O. N. 87° 37' 20", 5.O. N. 4° 32' 3", 5.E. N. 4° 30' 3", 5.E. | | | | | | | |
| | | Pointe N. repoussée. | | | | | | | | | | | |
| | | 88 0 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 0 | 88 1 | 87 37 | 87 44 | | | | | | | | |
| | | 88 0 | 88 2 | 87 36 | 87 43 | | | | | | | | |
| | | 88 3 | 88 3 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 1 | 88 2 | 87 35 | 87 41 | | | | | | | | |
| | | 88 3 | 88 4 | 87 36 | 87 43 | | | | | | | | |
| | | 88 2 | 88 3 | 87 37 | 87 44 | | | | | | | | |
| | | 88 3 | 88 4 | 87 35 | 87 41 | | | | | | | | |
| | | 88 0 | 88 1 | 87 36 | 87 42 | | | | | | | | |
| | | | | | | S. 87° 51' 0", 5.O. N. 87° 37' 20", 5 | | | | | | | |

DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE.

| TES et VRES. | OBSERVATION. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. | | |
|--------------------|--------------------------|-------------------------------|---------------|------------------------|---------------|-------------------------------|--|--------|------------|--|--|
| | | Avant le retournement, | | Après le retournement, | | | Apparente. | Vraie. | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |

EXPÉRIENCES FAITES À AGAGNA (ILE GUAM).

| | | | | | | | | | |
|--|----------------------|----------------------|--------------|--------------|--------------|--------------------|-----------------------|-------------------------------------|----------------------|
| 110. m. 14. 10' 6" 10' 35' matin. t de 155'. 10' 30' matin. | Frey. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | | | | |
| | | 87° 55' | 87° 59' | 87° 49' | 87° 51' | | | | |
| | | 87 50 | 87 57 | 87 48 | 87 49 | | | | |
| | | 87 50 | 87 57 | 87 47 | 87 52 | | | | |
| | | 87 50 | 87 56 | 87 47 | 87 51 | | | | |
| | | 87 48 | 87 55 | 87 47 | 87 48 | | | | |
| | | 87 53 | 87 57 | 87 47 | 87 48 | | | | |
| | | 87 52 | 87 58 | 87 48 | 87 49 | | | | |
| | | 87 48 | 87 56 | 87 47 | 87 48 | | | | |
| | | 87 50 | 87 54 | 87 47 | 87 48 | | | | |
| | | 87 49 | 87 57 | 87 48 | 87 49 | | | | |
| | | 87 47 | 87 48 | 87 49 | 87 49 | | | | |
| | | 87 47 | 87 49 | 87 47 | 87 47 | | | | |
| | | 87 46 | 87 51 | 87 48 | 87 49 | | | | |
| | | 87 54 | 87 56 | 87 47 | 87 48 | | | | |
| | | 87 46 | 87 47 | 87 51 | 87 52 | | | | |
| | | | | | | 87° 50' 1". 5. O. | N. 87° 37' 20". 5. O. | N. 4° 32' 38". O. N. 4° 39' 38". E. | |
| 9° 35'. 10' 35'. matin. rendu. 7° 55'. 10' 35'. repris. 9° 30'. 0° de stia. | Pointe N. activité. | Pointe N. repoussée. | | | | | | | |
| | | 87 48 | 87 50 | 87 46 | 87 47 | | | | |
| | | 87 53 | 87 58 | 87 47 | 87 48 | | | | |
| | | 87 55 | 87 58 | 87 47 | 87 47 | | | | |
| | | 87 54 | 87 59 | 87 47 | 87 47 | | | | |
| | | 87 46 | 87 49 | 87 48 | 87 47 | | | | |
| | | 87 48 | 87 50 | 87 47 | 87 48 | | | | |
| | | 87 47 | 87 48 | 87 48 | 87 48 | | | | |
| | | 87 47 | 87 50 | 87 49 | 87 49 | | | | |
| | | 87 46 | 87 47 | 87 49 | 87 50 | | | | |
| | | 87 48 | 87 55 | 87 50 | 87 51 | | | | |
| | | 87 56 | 87 59 | 87 49 | 87 51 | | | | |
| | | 87 47 | 87 47 | 87 47 | 87 47 | | | | |
| | | 87 49 | 87 53 | 87 47 | 87 48 | | | | |
| | | 87 51 | 87 55 | 87 47 | 87 49 | | | | |
| | | 87 54 | 87 56 | 87 49 | 87 49 | | | | |
| | | | | | | 87° 49' 48". | 87° 53' 42" | 87° 47' 48" | 87° 48' 48" |
| 9° 35'. 10' 35'. matin. rendu. 7° 55'. 10' 35'. repris. 9° 30'. 0° de stia. | Pointe N. activité. | Pointe N. repoussée. | | | | | | | |
| | | 87 46 | 87 47 | 87 47 | 87 48 | | | | |
| | | 87 47 | 87 47 | 87 48 | 87 49 | | | | |
| | | 87 55 | 87 0 | 87 47 | 87 47 | | | | |
| | | 87 49 | 87 55 | 87 47 | 87 47 | | | | |
| | | 87 49 | 87 54 | 87 48 | 87 48 | | | | |
| | | 87 46 | 87 48 | 87 47 | 87 48 | | | | |
| | | 87 47 | 87 48 | 87 47 | 87 47 | | | | |
| | | 87 54 | 87 56 | 87 50 | 87 51 | | | | |
| | | 87 47 | 87 47 | 87 47 | 87 49 | | | | |
| | | 87 48 | 87 48 | 87 49 | 87 51 | | | | |
| | | 87 50 | 87 51 | 87 51 | 87 51 | | | | |
| | | 87 54 | 87 56 | 87 49 | 87 48 | | | | |
| | | 87 49 | 87 53 | 87 45 | 87 46 | | | | |
| | | 87 49 | 87 52 | 87 47 | 87 47 | | | | |
| | | 87 54 | 87 56 | 87 48 | 87 49 | | | | |
| | | | | | | S. 87° 49' 52". O. | N. 87° 37' 20". 5. O. | N. 4° 32' 47". 5. O. | N. 4° 39' 47". 5. E. |
| 9° 35'. 10' 35'. matin. rendu. 7° 55'. 10' 35'. repris. 9° 30'. 0° de stia. | Pointe N. repoussée. | | | | | | | | |
| | | 87 52 | 87 57 | 87 48 | 87 49 | | | | |
| | | 87 53 | 87 57 | 87 48 | 87 49 | | | | |
| | | 87 48 | 87 48 | 87 46 | 87 47 | | | | |
| | | 87 55 | 87 55 | 87 48 | 87 49 | | | | |
| | | 87 50 | 87 52 | 87 47 | 87 47 | | | | |
| | | 87 48 | 87 50 | 87 48 | 87 49 | | | | |
| | | 87 50 | 87 53 | 87 46 | 87 48 | | | | |
| | | 87 47 | 87 48 | 87 48 | 87 49 | | | | |
| | | 87 51 | 87 53 | 87 48 | 87 49 | | | | |
| | | 87 52 | 87 53 | 87 47 | 87 48 | | | | |
| | | 87 46 | 87 47 | 87 47 | 87 48 | | | | |
| | | 87 52 | 87 52 | 87 50 | 87 51 | | | | |
| | | 87 49 | 87 52 | 87 49 | 87 49 | | | | |
| | | 87 51 | 87 52 | 87 50 | 87 50 | | | | |
| | | 87 53 | 87 56 | 87 49 | 87 50 | | | | |
| | | | | | | 87° 50' 20". | 87° 52' 40" | 87° 47' 52" | 87° 48' 36" |

VOYAGE AUTOUR DU MONDE.

| | | DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | | |
|---|--------------------------|---|----------------------|------------------------|----------------------|--------------|------------|-------------------------------|--|--|------------|--|--|
| DATES et HEURES. | OBSERVATION, INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. | | |
| | | Avant le retournement, | | Après le retournement, | | Angle moyen. | Apparente. | | Vraie. | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | | | |
| 1819. Août, 13. Com- mencé à 10 ^h du matin. | Lm. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | | | | | | |
| | | Pointe N. attirée. | Pointe N. repoussée. | Pointe N. attirée. | Pointe N. repoussée. | | | | | | | | |
| | | 15° 45' | 15° 52' | 15° 45' | 15° 32' | | | | | | | | |
| | | 15 50 | 15 55 | 15 50 | 15 40 | | | | | | | | |
| | | 15 50 | 15 55 | 15 47 | 15 36 | | | | | | | | |
| | | 15 50 | 15 55 | 15 45 | 15 35 | | | | | | | | |
| | | 15 55 | 15 55 | 15 45 | 15 30 | | | | | | | | |
| | | 15 50 | 15 55 | 15 40 | 15 30 | | | | | | | | |
| | | 15 50 | 15 55 | 15 45 | 15 33 | | | | | | | | |
| | | 15 50 | 15 55 | 15 45 | 15 35 | | | | | | | | |
| | | 15 50 | 15 55 | 15 45 | 15 35 | | | | | | | | |
| | | 15 50 | 15 55 | 15 45 | 15 31 | | | | | | | | |
| | | 15 55 | 15 57 | 15 37 | 15 31 | | | | | | | | |
| | | 15 55 | 15 57 | 15 42 | 15 33 | | | | | | | | |
| | | 15 55 | 15 57 | 15 40 | 15 30 | | | | | | | | |
| | | 15 50 | 15 55 | 15 40 | 15 33 | | | | | | | | |
| | | 15 55 | 15 57 | 15 40 | 15 30 | | | | | | | | |
| | | 15 55 | 15 57 | 15 40 | 15 33 | | | | | | | | |
| | | 15 50 | 15 55 | 15 40 | 15 33 | | | | | | | | |
| | | 15 52 | 15 57 | 15 40 | 15 33 | | | | | | | | |
| | | 15 50 | 15 55 | 15 40 | 15 30 | | | | | | | | |
| | | 15 50 | 15 55 | 15 45 | 15 35 | | | | | | | | |
| | | 15° 51' 21" | 15° 55' 27" | 15° 42' 33" | 15° 32' 54" | | | | | | | | |
| | | Pointe N. attirée. | Pointe N. repoussée. | Pointe N. attirée. | Pointe N. repoussée. | | | | | | | | |
| | | 15 50 | 15 57 | 15 45 | 15 40 | | | | | | | | |
| | | 15 50 | 15 58 | 15 48 | 15 40 | | | | | | | | |
| | | 15 50 | 15 55 | 15 40 | 15 32 | | | | | | | | |
| | | 15 48 | 15 50 | 15 45 | 15 36 | | | | | | | | |
| | | 15 50 | 15 57 | 15 45 | 15 40 | | | | | | | | |
| | | 15 50 | 15 58 | 15 45 | 15 38 | | | | | | | | |
| | | 15 50 | 15 59 | 15 45 | 15 40 | | | | | | | | |
| | | 15 55 | 16 0 | 15 45 | 15 40 | | | | | | | | |
| | | 15 55 | 15 58 | 15 40 | 15 32 | | | | | | | | |
| | | 15 50 | 15 56 | 15 45 | 15 40 | | | | | | | | |
| | | 15 54 | 15 58 | 15 45 | 15 32 | | | | | | | | |
| | | 15 55 | 15 59 | 15 45 | 15 31 | | | | | | | | |
| | | 15 55 | 15 59 | 15 40 | 15 30 | | | | | | | | |
| | | 15 50 | 15 58 | 15 45 | 15 33 | | | | | | | | |
| | | 15 55 | 15 59 | 15 42 | 15 30 | | | | | | | | |
| | | 15 55 | 15 59 | 15 45 | 15 32 | | | | | | | | |
| | | 15 50 | 15 55 | 15 45 | 15 32 | | | | | | | | |
| | | 15 50 | 15 55 | 15 45 | 15 36 | | | | | | | | |
| | | 15 50 | 15 55 | 15 45 | 15 36 | | | | | | | | |
| | | 15 53 | 15 59 | 15 40 | 15 31 | | | | | | | | |
| | | 15° 51' 45" | 15° 57' 12" | 15° 44' 0" | 15° 35' 3" | | | | | | | | |

DÉCLINAISON DE L'AIGUILLE N° II DE LA BOUSSOLE TERRESTRE.

| DATES et HEURES. | OBSERVATIONS. | INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | AZIMUT VRAI de la mire. | DÉCLINAISON de l'aiguille aimantée. | REMARQUES. | |
|---|--------------------|--|-------------------------------|---------------|---------------|------------------------|-----------------------|---------------------|-------------------------------|--|------------|--|
| | | | Avant le retournement, | | | Après le retournement, | | | | | | |
| | | | angle direct. | angle opposé. | angle direct. | angle opposé. | Angle moyen. | Apparente. | | Vraie. | | |
| 1819. Août, 13. Com- mencé à midi. | Lm. P. | Pointe N. attirée. Pointe N. repoussée. | De S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | | | | |
| | | | 15° 42' | 15° 45' | 15° 45' | 15° 40' | | | | | | |
| | | | 15 42 | 15 48 | 15 45 | 15 40 | | | | | | |
| | | | 15 40 | 15 42 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 47 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 47 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 38 | | | | | | |
| | | | 15 45 | 15 47 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 38 | | | | | | |
| | | | 15 50 | 15 40 | 15 45 | 15 35 | S. 15° 43' 6". E. | S. 6° 1' 42", 5. E. | N. 9° 41' 23", 5. E. | N. 9° 48' 23", 5. E. | | |
| | | | 15 40 | 15 40 | 15 42 | 15 37 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 35 | 15 45 | 15 40 | 15 35 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 38 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15° 43' 57" | 15° 44' 48" | 15° 44' 36" | 15° 39' 3" | | | | | | |
| P. | Pointe N. attirée. | Pointe N. repoussée. | 15 45 | 15 40 | 15 45 | 15 40 | | | | | | |
| | | | 15 50 | 15 45 | 15 40 | 15 37 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 40 | 15 45 | 15 45 | 15 40 | | | | | | |
| | | | 15 40 | 15 45 | 15 45 | 15 42 | | | | | | |
| | | | 15 45 | 15 50 | 15 45 | 15 45 | | | | | | |
| | | | 15 40 | 15 45 | 15 48 | 15 44 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 42 | | | | | | |
| | | | 15 45 | 15 45 | 15 45 | 15 42 | | | | | | |
| | | | 15 50 | 15 50 | 15 50 | 15 45 | | | | | | |
| | | | 15 45 | 15 40 | 15 50 | 15 45 | S. 15° 54' 48", 7. E. | S. 6° 1' 42", 5. E. | N. 9° 43' 6", 2. E. | N. 9° 50' 6", 2. E. | | |
| | | | 15 50 | 15 47 | 15 45 | 15 40 | | | | | | |
| | | | 15 45 | 15 45 | 15 47 | 15 40 | | | | | | |
| | | | 15 50 | 15 48 | 15 50 | 15 48 | | | | | | |
| | | | 15 45 | 15 45 | 15 50 | 15 47 | | | | | | |
| | | | 15 45 | 15 50 | 15 45 | 15 42 | | | | | | |
| | | | 15 45 | 15 45 | 15 48 | 15 48 | | | | | | |
| | | | 15 45 | 15 48 | 15 45 | 15 42 | | | | | | |
| | | | 15 40 | 15 45 | 15 45 | 15 45 | | | | | | |
| | | | 15 35 | 15 45 | 15 45 | 15 45 | | | | | | |
| | | | 15° 44' 30" | 15° 45' 39" | 15° 46' 9" | 15° 42' 57" | | | | | | |

| | | DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | |
|---------------------------------|-------|---|-------------------------------|---------------|------------------------|-----------------------|-------------------------------|--|---------------------|------------|--|--|
| DATES et HEURES. | | OBSERVATEUR. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. | | |
| | | | Avant le retournement, | | Après le retournement, | | | Angle moyen. | Apparate. | | | |
| | | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | Vraie. | | | |
| 1819. Août, 17, matin. | Frey. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | | | | | |
| | | 14° 40 | 14° 38' | 15° 0' | 15° 5' | | | | | | | |
| | | 14 40 | 14 38 | 15 2 | 15 10 | | | | | | | |
| | | 14 40 | 14 38 | 15 2 | 15 10 | | | | | | | |
| | | 14 45 | 14 42 | 14 58 | 15 2 | | | | | | | |
| | | 14 42 | 14 40 | 15 1 | 15 6 | | | | | | | |
| | | 14 50 | 14 48 | 15 0 | 15 5 | N. 14° 53' 21". E. | N. 23° 24' 54". E. | N. 8° 31' 33", O.E. | N. 8° 38' 33". O. | | | |
| | | 14 43 | 14 40 | 15 2 | 15 10 | | | | | | | |
| | | 14 45 | 14 42 | 15 2 | 15 10 | | | | | | | |
| | | 14 55 | 14 50 | 14 58 | 15 2 | | | | | | | |
| | | 14 45 | 14 48 | 14 58 | 15 2 | | | | | | | |
| | | 14° 44' 30" | 14° 42' 24" | 15° 0' 18" | 15° 6' 12" | | | | | | | |
| | Lm. | 14 45 | 14 40 | 15 2 | 15 0 | | | | | | | |
| | | 14 50 | 14 45 | 15 3 | 15 0 | | | | | | | |
| | | 14 55 | 14 50 | 15 0 | 15 0 | | | | | | | |
| | | 14 50 | 14 45 | 15 3 | 15 0 | | | | | | | |
| | | 14 50 | 14 45 | 15 3 | 15 0 | N. 14° 54' 46,5. E. | N. 23° 24' 51". E. | N. 8° 80' 7", 5. E. | N. 8° 37' 7" 5. E. | | | |
| | | 14 50 | 14 45 | 15 1 | 15 0 | | | | | | | |
| | | 14 55 | 14 50 | 15 0 | 15 0 | | | | | | | |
| | | 14 50 | 14 45 | 15 3 | 15 0 | | | | | | | |
| | | 14 55 | 14 50 | 15 0 | 14 58 | | | | | | | |
| | | 14 55 | 14 50 | 15 0 | 14 58 | | | | | | | |
| | | 14° 51' 30" | 14° 46' 30" | 15° 1' 30" | 14° 59' 36" | | | | | | | |
| | Db. | 14 43 | 14 39 | 14 59 | 14 59 | | | | | | | |
| | | 14 50 | 14 50 | 14 59 | 14 58 | | | | | | | |
| | | 14 38 | 14 36 | 15 0 | 15 0 | | | | | | | |
| | | 14 45 | 14 43 | 15 0 | 15 0 | | | | | | | |
| | | 14 45 | 14 44 | 15 0 | 15 0 | N. 14° 51' 49", 5. E. | N. 23° 24' 54". E. | N. 8° 33' 4", 5. E. | N. 8° 40' 4", 5. E. | | | |
| | | 14 45 | 14 43 | 15 3 | 15 2 | | | | | | | |
| | | 14 45 | 14 43 | 15 0 | 15 0 | | | | | | | |
| | | 14 42 | 14 42 | 15 0 | 15 0 | | | | | | | |
| | | 14 50 | 14 48 | 14 59 | 14 58 | | | | | | | |
| | | 14 45 | 14 43 | 14 59 | 14 58 | | | | | | | |
| | | 14° 44' 48" | 14° 43' 6" | 14° 59' 54" | 14° 59' 30" | | | | | | | |

DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE.

| DATES et HEURES. | OBSERVATION. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. Apparente. Vraie. | REMARQUES. | | | |
|------------------------|--------------|-------------------------------|---------------|------------------------|---------------|-------------------------------|---|------------|--|--|--|
| | | Avant le retournement, | | Après le retournement, | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| 1819. Aout, 18. | Lm. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | | | | |
| | | 14° 35' | 14° 32' | 14° 38' | 14° 35' | | | | | | |
| | | 14 45 | 14 37 | 14 30 | 14 35 | | | | | | |
| | | 14 40 | 14 35 | 14 28 | 14 32 | | | | | | |
| | | 14 40 | 14 32 | 14 30 | 14 35 | | | | | | |
| | | 14 45 | 14 37 | 14 28 | 14 32 | | | | | | |
| | | 14 45 | 14 37 | 14 28 | 14 35 | | | | | | |
| | | 14 35 | 14 30 | 14 30 | 14 32 | | | | | | |
| | | 14 40 | 14 35 | 14 27 | 14 33 | | | | | | |
| | | 14 35 | 14 30 | 14 30 | 14 32 | | | | | | |
| | | 14 40 | 14 35 | 14 27 | 14 33 | | | | | | |
| | | 14 40 | 14 35 | 14 27 | 14 35 | | | | | | |
| | | 14 35 | 14 30 | 14 27 | 14 35 | | | | | | |
| | | 14 40 | 14 35 | 14 27 | 14 35 | | | | | | |
| | | 14 35 | 14 32 | 14 30 | 14 32 | | | | | | |
| | | 14 35 | 14 32 | 14 30 | 14 32 | | | | | | |
| | | 14 40 | 14 35 | 14 28 | 14 31 | | | | | | |
| | | 14 40 | 14 35 | 14 28 | 14 30 | | | | | | |
| | | 14 35 | 14 32 | 14 30 | 14 33 | | | | | | |
| | | 14 40 | 14 35 | 14 28 | 14 33 | | | | | | |
| | | 14 35 | 14 32 | 14 30 | 14 33 | | | | | | |
| | | 14 35 | 14 32 | 14 28 | 14 33 | | | | | | |
| | | 14 35 | 14 32 | 14 32 | 14 35 | | | | | | |
| | | | | | | | | | | | |
| | | 14° 39' 0" | 14° 33' 48" | 14° 29' 9" | 14° 33' 15" | | | | | | |
| | | | | | | | | | | | |
| | Fr. | | | | | | | | | | |
| | | 14 45 | 14 36 | 14 30 | 14 30 | | | | | | |
| | | 14 32 | 14 30 | 14 30 | 14 30 | | | | | | |
| | | 14 32 | 14 30 | 14 30 | 14 30 | | | | | | |
| | | 14 45 | 14 37 | 14 29 | 14 29 | | | | | | |
| | | 14 40 | 14 35 | 14 30 | 14 30 | | | | | | |
| | | 14 32 | 14 30 | 14 29 | 14 29 | | | | | | |
| | | 14 32 | 14 30 | 14 30 | 14 31 | | | | | | |
| | | 14 32 | 14 30 | 14 30 | 14 30 | | | | | | |
| | | 14 30 | 14 29 | 14 30 | 14 31 | | | | | | |
| | | 14 40 | 14 35 | 14 30 | 14 30 | | | | | | |
| | | 14 30 | 14 29 | 14 30 | 14 29 | | | | | | |
| | | 14 31 | 14 29 | 14 30 | 14 30 | | | | | | |
| | | 14 30 | 14 29 | 14 30 | 14 29 | | | | | | |
| | | 14 31 | 14 29 | 14 30 | 14 31 | | | | | | |
| | | 14 32 | 14 31 | 14 30 | 14 30 | | | | | | |
| | | 14 32 | 14 31 | 14 30 | 14 31 | | | | | | |
| | | 14 30 | 14 32 | 14 29 | 14 31 | | | | | | |
| | | 14 32 | 14 30 | 14 30 | 14 31 | | | | | | |
| | | 14 30 | 14 30 | 14 29 | 14 31 | | | | | | |
| | | 14 32 | 14 32 | 14 39 | 14 30 | | | | | | |
| | | | | | | | | | | | |
| | | 14° 33' 30" | 14° 31' 12" | 14° 29' 45" | 14° 30' 9" | | | | | | |
| | | | | | | | | | | | |
| | Fb. | | | | | | | | | | |
| | | 14 30 | 14 31 | 14 29 | 14 30 | | | | | | |
| | | 14 30 | 14 30 | 14 30 | 14 30 | | | | | | |
| | | 14 31 | 14 31 | 14 30 | 14 31 | | | | | | |
| | | 14 30 | 14 31 | 13 30 | 14 30 | | | | | | |
| | | 14 31 | 14 31 | 14 29 | 14 30 | | | | | | |
| | | 14 33 | 14 42 | 14 32 | 14 31 | | | | | | |
| | | 14 31 | 14 31 | 14 30 | 14 30 | | | | | | |
| | | 14 30 | 14 30 | 14 30 | 14 31 | | | | | | |
| | | 14 31 | 14 31 | 14 30 | 14 31 | | | | | | |
| | | 14 30 | 14 30 | 14 30 | 14 31 | | | | | | |
| | | 14 30 | 14 32 | 14 29 | 14 31 | | | | | | |
| | | 14 32 | 14 30 | 14 30 | 14 31 | | | | | | |
| | | 14 30 | 14 30 | 14 29 | 14 31 | | | | | | |
| | | 14 32 | 14 32 | 14 39 | 14 30 | | | | | | |
| | | | | | | | | | | | |
| | | 14° 31' 0" | 14° 31' 45" | 14° 29' 45" | 14° 30' 21" | | | | | | |

| | | DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | | |
|------------------------|---------------------------|---|---------------|------------------------|---------------|--------------|--|-------------------------------|--|--|------------|--|--|
| DATES et HEURES. | OBSERVATIONS. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. | | |
| | | Avant le retournement, | | Après le retournement, | | Angle moyen. | Apparente. | | Vraie. | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | | | |
| 1819. Août, 27. | R. | Pointe N. attirée. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | S.18°32'55",5.E. S.8°15'19",6.E. N.10°17'32",9.E. N.10°24'32",9.E. | | | | | | |
| | | | 18° 29' | 18° 29' | 18° 30' | 18° 35' | | | | | | | |
| | | | 18 30 | 18 20 | 18 30 | 18 35 | | | | | | | |
| | | | 18 35 | 18 35 | 18 30 | 18 35 | | | | | | | |
| | | | 18 40 | 18 38 | 18 30 | 18 35 | | | | | | | |
| | | | 18 30 | 18 30 | 18 32 | 18 38 | | | | | | | |
| | | | 18 30 | 18 30 | 18 32 | 18 38 | | | | | | | |
| | | | 18 34 | 18 33 | 18 31 | 18 35 | | | | | | | |
| | | | 18 35 | 18 35 | 18 30 | 18 35 | | | | | | | |
| | | | 18 30 | 18 30 | 18 31 | 18 35 | | | | | | | |
| | | | 18 30 | 18 30 | 18 32 | 18 36 | | | | | | | |
| | | | 18 35 | 18 35 | 18 30 | 18 35 | | | | | | | |
| | | | 18 35 | 18 35 | 18 30 | 18 35 | | | | | | | |
| | | | 18 35 | 18 35 | 18 30 | 18 35 | | | | | | | |
| | | | 18 35 | 18 35 | 18 32 | 18 37 | | | | | | | |
| | | | 18 34 | 18 33 | 18 32 | 18 37 | | | | | | | |
| | | | 18 35 | 18 35 | 18 30 | 18 35 | | | | | | | |
| | | | 18 30 | 18 30 | 18 30 | 18 35 | | | | | | | |
| | | | 18 30 | 18 30 | 18 32 | 18 37 | | | | | | | |
| | | | 18 34 | 18 34 | 18 32 | 18 36 | | | | | | | |
| | | | 18 35 | 18 34 | 18 32 | 18 36 | | | | | | | |
| | | | 18 34 | 18 34 | 18 32 | 18 36 | | | | | | | |
| | | | 18 40 | 18 38 | 18 30 | 18 35 | | | | | | | |
| | | | 18° 33' 3" | 18° 32' 0" | 18° 30' 48" | 18° 35' 39" | | | | | | | |
| B. | B. | Pointe N. attirée. | 18 34 | 18 34 | 18 30 | 18 33 | | | | | | | |
| | | | 18 30 | 18 30 | 18 33 | 18 34 | | | | | | | |
| | | | 18 30 | 18 30 | 18 33 | 18 34 | | | | | | | |
| | | | 18 30 | 18 30 | 18 30 | 18 33 | | | | | | | |
| | | | 18 30 | 18 30 | 18 33 | 18 38 | | | | | | | |
| | | | 18 34 | 18 34 | 18 33 | 18 35 | | | | | | | |
| | | | 18 33 | 18 33 | 18 33 | 18 38 | | | | | | | |
| | | | 18 34 | 18 34 | 18 32 | 18 36 | | | | | | | |
| | | | 18 35 | 18 35 | 18 32 | 18 36 | | | | | | | |
| | | | 18 30 | 18 30 | 18 32 | 18 35 | | | | | | | |
| | | | 18 30 | 18 30 | 18 32 | 18 35 | | | | | | | |
| | | | 18 30 | 18 30 | 18 32 | 18 35 | | | | | | | |
| | | | 18 34 | 18 34 | 18 33 | 18 36 | | | | | | | |
| | | | 18 33 | 18 33 | 18 32 | 18 35 | | | | | | | |
| | | | 18 33 | 18 33 | 18 32 | 18 35 | | | | | | | |
| | | | 18 30 | 18 30 | 18 33 | 18 38 | | | | | | | |
| | | | 18 30 | 18 30 | 18 33 | 18 38 | | | | | | | |
| | | | 18 30 | 18 30 | 18 34 | 18 40 | | | | | | | |
| | | | 18 33 | 18 33 | 18 34 | 18 40 | | | | | | | |
| | | | 18° 31' 54" | 18° 3' 54" | 18° 32' 24" | 18° 35' 48" | | | | | | | |

DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE.

| DATES et HEURES. | OBSERVATEURS. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | REMARQUES. | | | |
|------------------------|---------------------------|-------------------------------|----------------------|------------------------|----------------------|-------------------------------|--|------------|--|--|--|
| | | Avant le retournement, | | Après le retournement, | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| 1819. août, 27. | R. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | | | | |
| | | 18° 10' | 18° 25' | 18° 45' | 18° 45' | | | | | | |
| | | 18 10 | 18 26 | 18 50 | 18 45 | | | | | | |
| | | 18 6 | 18 23 | 18 45 | 18 40 | | | | | | |
| | | 18 15 | 18 28 | 18 45 | 18 36 | | | | | | |
| | | 18 12 | 18 26 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 26 | 18 45 | 18 40 | | | | | | |
| | | 18 10 | 18 26 | 18 45 | 18 37 | | | | | | |
| | | 18 10 | 18 26 | 18 45 | 18 40 | | | | | | |
| | | 18 15 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 15 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 15 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 28 | 18 40 | 18 36 | S. 18° 31' 10", 5.E. | | | | | |
| | | 18 12 | 18 28 | 18 45 | 18 40 | S. 8° 15' 19", 6.E. | | | | | |
| | | 13 12 | 18 28 | 18 45 | 18 40 | N. 10° 15' 50", 9.E. | | | | | |
| | | 18 15 | 18 30 | 18 45 | 18 40 | N. 10° 22,50", 9.E. | | | | | |
| | | 18 12 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 15 | 18 30 | 18 48 | 18 45 | | | | | | |
| | | 18 15 | 18 28 | 18 48 | 18 42 | | | | | | |
| | | 18 10 | 18 27 | 18 45 | 18 35 | | | | | | |
| | B. | Pointe N. attirée. | Pointe N. repoussée. | Pointe N. attirée. | Pointe N. repoussée. | | | | | | |
| | | 18° 12' 6" | 18° 27' 15" | 18° 45' 18" | 18° 40' 3" | | | | | | |
| | | 18 15 | 18 25 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 26 | 18 45 | 18 38 | | | | | | |
| | | 18 15 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 15 | 18 27 | 18 50 | 18 45 | | | | | | |
| | | 18 12 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 15 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 27 | 18 42 | 18 34 | | | | | | |
| | | 18 15 | 18 28 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 26 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 26 | 18 45 | 18 40 | S. 18° 31' 30", E. | | | | | |
| | | 18 15 | 18 25 | 18 50 | 18 45 | S. 8° 15' 19", 6.E. | | | | | |
| | | 18 15 | 18 25 | 18 45 | 18 40 | N. 10° 16' 10", 8.E. | | | | | |
| | | 18 10 | 18 25 | 18 45 | 18 40 | N. 10° 23' 10", 4.E. | | | | | |
| | | 18 10 | 18 26 | 18 45 | 18 43 | | | | | | |
| | | 18 12 | 18 26 | 18 45 | 18 40 | | | | | | |
| | | 18 14 | 18 26 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 25 | 18 45 | 18 40 | | | | | | |
| | | 18 10 | 18 25 | 18 45 | 18 40 | | | | | | |
| | | 18 12 | 18 25 | 18 50 | 18 45 | | | | | | |
| | | 18 15 | 18 26 | 18 50 | 18 45 | | | | | | |
| | | 18 13' 0" | 18° 26' 9" | 18° 46' 6" | 18° 40' 45" | | | | | | |

| DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | | | | |
|---|-----------------------|-------------------------------|---------------|---------------|------------------------|--------------|--|-------------------------------|--|------------|--|--|--|
| DATES et HEURES. | OBSERVATION. naut. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. Apparente. Vraie. | REMARQUES. | | | |
| | | Avant le retournement, | | | Après le retournement, | | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | angle moyen. | | | | | | | |
| 1839. Décembre, 3, de 11 ^h du matin à midi $\frac{1}{2}$. | | | | | | | | | | | | | |
| | Pointe N. attirée. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | | | | | | |
| | | 77° 10' | 77° 5' | 77° 15' | 77° 25' | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 28 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 15 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 28 | | | | | | | | |
| | | 77 5 | 77 2 | 77 25 | 77 30 | | | | | | | | |
| | | 77 10 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 10 | 77 5 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 5 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 28 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 10 | 77 5 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 28 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 2 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 5 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 5 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | 77 25 | | | | | | | | |
| | | 77 6 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 8 | 77 3 | 77 20 | 77 25 | | | | | | | | |
| | | 77 10 | 77 4 | 77 20 | 77 25 | | | | | | | | |
| | | 77 5 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 0 | 77 25 | 77 30 | | | | | | | | |
| | | 77 8 | 77 3 | 77 25 | 77 30 | | | | | | | | |
| | | 77 5 | 77 0 | 77 20 | 77 25 | | | | | | | | |
| | | 77 12 | 77 6 | 77 20 | | | | | | | | | |

DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE.

| ATES et URES. | OBSERVATION. | INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | REMARQUES. | | | |
|--|--------------------|--------------------|-------------------------------|---------------|------------------------|--|-------------------------------|--|------------|--|--|--|
| | | | Avant le retournement, | | Après le retournement, | | | | | | | |
| | | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| 1819. 3 de 9 ^h matin à 30°. | Frey. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | | | | | |
| | Pointe N. attisée. | 77° 29' | 77° 30' | 77° 9' | 77° 5' | | | | | | | |
| | | 77 28 | 77 27 | 77 8 | 77 0 | | | | | | | |
| | | 77 81 | 77 32 | 77 10 | 77 1 | | | | | | | |
| | | 77 31 | 77 33 | 77 8 | 77 0 | | | | | | | |
| | | 77 30 | 77 29 | 77 12 | 77 5 | | | | | | | |
| | | 77 32 | 77 34 | 77 7 | 76 59 | | | | | | | |
| | | 77 30 | 77 29 | 77 10 | 77 4 | | | | | | | |
| | | 77 32 | 77 34 | 77 9 | 77 2 | | | | | | | |
| | | 77 31 | 77 32 | 77 7 | 77 2 | | | | | | | |
| | | 77 31 | 77 33 | 77 6 | 77 1 | | | | | | | |
| | | 77 30 | 77 31 | 77 8 | 77 2 | | | | | | | |
| | | 77 32 | 77 34 | 77 6 | 77 1 | | | | | | | |
| | | 77 28 | 77 26 | 77 9 | 77 4 | | | | | | | |
| | | 77 30 | 77 32 | 77 10 | 77 3 | | | | | | | |
| | | 77 29 | 77 31 | 77 4 | 76 58 | | | | | | | |
| | | | | | | N. 77° 17' 35". E. S. 93° 34' 37". E. N. 9° 7' 47". A. E. N. 9° 14' 47". A. E. | | | | | | |
| | Pointe N. reposée. | 77 29 | 77 32 | 77 6 | 76 58 | | | | | | | |
| | | 77 31 | 77 33 | 77 12 | 77 5 | | | | | | | |
| | | 77 30 | 77 32 | 77 10 | 77 3 | | | | | | | |
| | | 77 27 | 77 29 | 77 7 | 76 58 | | | | | | | |
| | | 77 31 | 77 31 | 77 12 | 77 6 | | | | | | | |
| | | 77 28 | 77 36 | 77 6 | 76 59 | | | | | | | |
| | | 77 27 | 77 25 | 77 9 | 77 2 | | | | | | | |
| | | 77 27 | 77 25 | 77 12 | 77 5 | | | | | | | |
| | | 77 27 | 77 28 | 77 8 | 77 2 | | | | | | | |
| | | 77 31 | 77 33 | 77 8 | 77 1 | | | | | | | |
| | | 77 31 | 77 31 | 77 12 | 77 5 | | | | | | | |
| | | 77 28 | 77 26 | 77 9 | 77 2 | | | | | | | |
| | | 77 29 | 77 28 | 77 7 | 77 1 | | | | | | | |
| | | 77 30 | 77 29 | 77 9 | 77 2 | | | | | | | |
| | | 77 29 | 77 27 | 77 10 | 77 3 | | | | | | | |
| | | | | | | | | | | | | |
| | | 77° 29' 38" | 77° 30' 4" | 77° 8' 40" | 77° 1' 58" | | | | | | | |
| | Dp. | Pointe N. attisée. | 75 30 | 77 29 | 77 16 | 76 59 | | | | | | |
| | | 77 29 | 77 28 | 77 16 | 76 59 | | | | | | | |
| | | 77 28 | 77 28 | 77 16 | 77 0 | | | | | | | |
| | | 77 29 | 77 29 | 77 15 | 77 2 | | | | | | | |
| | | 77 28 | 77 27 | 77 10 | 77 0 | | | | | | | |
| | | 77 29 | 77 29 | 77 12 | 76 59 | | | | | | | |
| | | 77 30 | 77 29 | 77 10 | 77 0 | | | | | | | |
| | | 77 28 | 77 29 | 77 15 | 77 2 | | | | | | | |
| | | 77 28 | 77 30 | 77 15 | 77 2 | | | | | | | |
| | | 77 29 | 77 30 | 77 10 | 77 0 | | | | | | | |
| | | 77 28 | 77 29 | 77 10 | 77 0 | | | | | | | |
| | | 77 28 | 77 29 | 77 10 | 77 0 | | | | | | | |
| | | 77 28 | 77 29 | 77 15 | 77 2 | | | | | | | |
| | | 77 28 | 77 29 | 77 15 | 77 2 | | | | | | | |
| | | 77 28 | 77 30 | 77 12 | 77 2 | | | | | | | |
| | | 77 28 | 77 29 | 77 10 | 77 0 | | | | | | | |
| | | 77 29 | 77 29 | 77 12 | 77 1 | | | | | | | |
| | | 77 29 | 77 30 | 77 15 | 77 3 | | | | | | | |
| | | 77 28 | 77 29 | 77 10 | 77 0 | | | | | | | |
| | | 77 28 | 77 29 | 77 10 | 77 0 | | | | | | | |
| | | | | | | | | | | | | |
| | | 77° 28' 30" | 77° 29' 8" | 77° 12' 26" | 77° 0' 44" | | | | | | | |

| DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | | | | |
|---|---------------------------|-------------------------------|-------------------|------------------------|---------------|----------------------|-----------------------|-------------------------------|---|------------|--|--|--|
| DATES et HEURES. | OBSERVATEURS. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. Apparente. Vraie. | REMARQUES. | | | |
| | | Avant le retournement, | | Après le retournement, | | Angle moyen. | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | | | |
| 1819. Décembre, 4 ^e de 8 ^h 42 ^m matin à 11 ^h . | Lm. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | | | | | | |
| | | 77° 20' | 77° 25' | 77° 20' | 77° 15' | | | | | | | | |
| | | 77 20 | 77 25 | 77 15 | 77 13 | | | | | | | | |
| | | 77 20 | 77 25 | 77 20 | 77 20 | | | | | | | | |
| | | 77 20 | 77 25 | 77 25 | 77 25 | | | | | | | | |
| | | 77 20 | 77 25 | 77 20 | 77 23 | | | | | | | | |
| | | 77 20 | 77 25 | 77 20 | 77 22 | | | | | | | | |
| | | 77 22 | 77 25 | 77 20 | 77 20 | | | | | | | | |
| | | 77 20 | 77 25 | 77 18 | 77 18 | | | | | | | | |
| | | 77 20 | 77 25 | 77 25 | 77 25 | | | | | | | | |
| | | 77 22 | 77 27 | 77 20 | 77 15 | | | | | | | | |
| | | 77 20 | 77 25 | 77 20 | 77 20 | | | | | | | | |
| | | 77 20 | 77 25 | 77 18 | 77 15 | | | | | | | | |
| | | 77 20 | 77 25 | 77 20 | 77 20 | | | | | | | | |
| | | 77 20 | 77 25 | 77 15 | 77 15 | | | | | | | | |
| | | | | | | N. 77° 22' 1", 5. E. | S. 93° 34' 37", 6. E. | N. 9° 3' 20", 9. E. | N. 9° 10' 30", 9. E. | | | | |
| | | 77 20 | 77 27 | 77 25 | 77 25 | | | | | | | | |
| | | 77 22 | 77 26 | 77 20 | 77 20 | | | | | | | | |
| | | 77 18 | 77 25 | 77 25 | 77 25 | | | | | | | | |
| | | 77 20 | 77 25 | 77 25 | 77 25 | | | | | | | | |
| | | 77 20 | 77 25 | 77 25 | 77 25 | | | | | | | | |
| | | 77 20 | 77 27 | 77 30 | 77 25 | | | | | | | | |
| | | 77 18 | 77 25 | 77 25 | 77 25 | | | | | | | | |
| | | 77 20 | 77 25 | 77 28 | 77 25 | | | | | | | | |
| | | 77 20 | 77 25 | 77 22 | 77 20 | | | | | | | | |
| | | 77 20 | 77 25 | 77 27 | 77 23 | | | | | | | | |
| | | 77 20 | 77 25 | 77 20 | 77 15 | | | | | | | | |
| | | 77 20 | 77 25 | 77 20 | 77 20 | | | | | | | | |
| | | 77 20 | 77 27 | 77 25 | 77 25 | | | | | | | | |
| | | 77 20 | 77 27 | 77 20 | 77 20 | | | | | | | | |
| | | 77 20 | 77 27 | 77 20 | 77 20 | | | | | | | | |
| | | | | | | 77° 20' 4" | 77° 25' 26" | 77° 21' 46" | 77° 20' 50" | | | | |
| | | Fb. | Pointe N. située. | | | | | | | | | | |
| | | 77 25 | 77 30 | 77 30 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 30 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 30 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 20 | 77 25 | | | | | | | | |
| | | 77 25 | 77 30 | 77 25 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 20 | 77 25 | | | | | | | | |
| | | 77 27 | 77 30 | 77 20 | 77 25 | | | | | | | | |
| | | 77 25 | 77 27 | 77 25 | 77 20 | | | | | | | | |
| | | 77 25 | 77 30 | 77 20 | 77 25 | | | | | | | | |
| | | 77 25 | 77 30 | 77 20 | 77 25 | | | | | | | | |
| | | 77 25 | 77 30 | 77 25 | 77 25 | | | | | | | | |
| | | 77 25 | 77 30 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 25 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 25 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 25 | 77 25 | | | | | | | | |
| | | 77 25 | 77 30 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 25 | 77 25 | | | | | | | | |
| | | 77 25 | 77 30 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 25 | 77 25 | | | | | | | | |
| | | 77 25 | 77 30 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 25 | 77 25 | | | | | | | | |
| | | 77 25 | 77 30 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 30 | 77 25 | 77 25 | | | | | | | | |
| | | | | | | N. 77° 20' 3", 0. E. | S. 93° 34' 37", 6. E. | N. 8° 59' 19", 4. E. | N. 9° 0' 19", 4. E. | | | | |
| | | Pointe N. repoussée. | | | | | | | | | | | |
| | | 77 20 | 77 25 | 77 30 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 30 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 30 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 30 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 25 | 77 25 | | | | | | | | |
| | | 77 25 | 77 27 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 25 | 77 25 | | | | | | | | |
| | | 77 25 | 77 27 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 25 | 77 25 | | | | | | | | |
| | | 77 25 | 77 27 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 27 | 77 27 | | | | | | | | |
| | | 77 25 | 77 27 | 77 27 | 77 27 | | | | | | | | |
| | | | | | | 77° 24' 42" | 77° 27' 6" | 77° 26' 2" | 77° 26' 22" | | | | |

DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE.

| DATES et HEURES. | OBSERVATEURS. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | REMARQUES. | | | |
|---|---------------------------|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------------|---|------------|--|--|--|
| | | Avant le retournement, | | Après le retournement, | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| 1819. Décemb. 4, 11 ^h 10' matin à 1 ^h 58' soir. | Frey. | Du N. à l'E. 77° 20' | Du S. à l'O. 77° 17' | Du N. à l'E. 77° 17' | Du S. à l'O. 77° 15' | | | | | | |
| | | 77 20 | 77 15 | 77 14 | 77 16 | | | | | | |
| | | 77 23 | 77 17 | 77 12 | 77 14 | | | | | | |
| | | 77 16 | 77 13 | 77 12 | 77 13 | | | | | | |
| | | 77 23 | 77 14 | 77 11 | 77 14 | | | | | | |
| | | 77 16 | 77 16 | 77 9 | 77 13 | | | | | | |
| | | 77 19 | 77 17 | 77 14 | 77 16 | | | | | | |
| | | 77 21 | 77 14 | 77 13 | 77 14 | | | | | | |
| | | 77 16 | 77 15 | 77 15 | 77 16 | | | | | | |
| | | 77 14 | 77 13 | 77 12 | 77 13 | | | | | | |
| | | 77 19 | 77 13 | 77 14 | 77 14 | | | | | | |
| | | 77 15 | 77 12 | 77 16 | 77 17 | | | | | | |
| | | 77 26 | 77 20 | 77 13 | 77 16 | | | | | | |
| | | 77 22 | 77 16 | 77 14 | 77 16 | | | | | | |
| | | 77 15 | 77 14 | 77 10 | 77 12 | | | | | | |
| | | | | | | N. 77° 15' 34". E. | S. 93° 34' 37", 6.E. N. 9° 9' 48", 4.E. N. 9° 16' 48", 4.E. | | | | |
| | | 77 15 | 77 14 | 77 15 | 77 16 | | | | | | |
| | | 77 22 | 77 17 | 77 15 | 77 16 | | | | | | |
| | | 77 15 | 77 13 | 77 15 | 77 15 | | | | | | |
| | | 77 13 | 77 14 | 77 12 | 77 13 | | | | | | |
| | | 77 15 | 77 14 | 77 14 | 77 15 | | | | | | |
| | | 77 29 | 77 22 | 77 10 | 77 12 | | | | | | |
| | | 77 21 | 77 16 | 77 15 | 77 16 | | | | | | |
| | | 77 14 | 77 14 | 77 15 | 77 16 | | | | | | |
| | | 77 21 | 77 16 | 77 14 | 77 16 | | | | | | |
| | | 77 20 | 77 17 | 77 16 | 77 17 | | | | | | |
| | | 77 18 | 77 15 | 77 12 | 77 14 | | | | | | |
| | | 77 21 | 77 18 | 77 16 | 77 17 | | | | | | |
| | | 77 21 | 77 19 | 77 13 | 77 14 | | | | | | |
| | | 77 22 | 77 19 | 77 10 | 77 12 | | | | | | |
| | | 77 14 | 77 11 | 77 9 | 77 12 | | | | | | |
| | | | | | | | | | | | |
| | | 77° 18' 52" | 77° 15' 30" | 77° 13' 14" | 77° 14' 40" | | | | | | |
| | | | | | | | | | | | |
| | Frey. | Du N. à l'E. 77 14 | Du S. à l'O. 77 11 | Du N. à l'E. 77 11 | Du S. à l'O. 77 13 | | | | | | |
| | | 77 17 | 77 14 | 77 16 | 77 14 | | | | | | |
| | | 77 16 | 77 13 | 77 15 | 77 16 | | | | | | |
| | | 77 21 | 77 17 | 77 8 | 77 10 | | | | | | |
| | | 77 14 | 77 10 | 77 11 | 77 14 | | | | | | |
| | | 77 21 | 77 16 | 77 12 | 77 14 | | | | | | |
| | | 77 13 | 77 10 | 77 16 | 77 17 | | | | | | |
| | | 77 17 | 77 15 | 77 15 | 77 16 | | | | | | |
| | | 77 16 | 77 16 | 77 11 | 77 13 | | | | | | |
| | | 77 17 | 77 14 | 77 13 | 77 16 | | | | | | |
| | | 77 14 | 77 10 | 77 11 | 77 13 | | | | | | |
| | | 77 15 | 77 13 | 77 16 | 77 17 | | | | | | |
| | | 77 15 | 77 13 | 77 11 | 77 13 | | | | | | |
| | | 77 21 | 77 18 | 77 9 | 77 10 | | | | | | |
| | | 77 14 | 77 12 | 77 11 | 77 12 | | | | | | |
| | | | | | | | | | | | |
| | | 77° 13' 36", 5.E. | 77° 13' 36", 5.E. | 77° 13' 14" | 77° 14' 40" | | | | | | |
| | | | | | | | | | | | |
| | Frey. | Du N. à l'E. 77 16 | Du S. à l'O. 77 14 | Du N. à l'E. 77 9 | Du S. à l'O. 77 12 | | | | | | |
| | | 77 13 | 77 9 | 77 9 | 77 11 | | | | | | |
| | | 77 12 | 77 9 | 77 14 | 77 16 | | | | | | |
| | | 77 16 | 77 14 | 77 12 | 77 14 | | | | | | |
| | | 77 15 | 77 12 | 77 10 | 77 12 | | | | | | |
| | | 77 16 | 77 14 | 77 10 | 77 13 | | | | | | |
| | | 77 11 | 77 8 | 77 15 | 77 16 | | | | | | |
| | | 77 11 | 77 8 | 77 13 | 77 16 | | | | | | |
| | | 77 18 | 77 15 | 77 8 | 77 11 | | | | | | |
| | | 77 19 | 77 16 | 77 10 | 77 12 | | | | | | |
| | | 77 17 | 77 15 | 77 15 | 77 16 | | | | | | |
| | | 77 20 | 77 16 | 77 15 | 77 16 | | | | | | |
| | | 77 22 | 77 18 | 77 10 | 77 13 | | | | | | |
| | | 77 13 | 77 10 | 77 10 | 77 11 | | | | | | |
| | | 77 9 | 77 6 | 77 15 | 77 16 | | | | | | |
| | | | | | | | | | | | |
| | | 77° 15' 46" | 77° 12' 52" | 77° 12' 2" | 77° 13' 46" | | | | | | |

EXPÉRIENCES FAITES À SYDNEY (PORT-JACKSON).

| | | | | | | | | |
|---|-------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|--|--|
| 1819. Décemb. 4, 11 ^h 10' matin à 1 ^h 58' soir. | Frey. | Du N. à l'E. 77° 18' 52" | Du S. à l'O. 77° 15' 30" | Du N. à l'E. 77° 13' 14" | Du S. à l'O. 77° 14' 40" | | | |
| | | 77 14 | 77 11 | 77 11 | 77 13 | | | |
| | | 77 17 | 77 14 | 77 16 | 77 14 | | | |
| | | 77 16 | 77 13 | 77 15 | 77 16 | | | |
| | | 77 21 | 77 17 | 77 8 | 77 10 | | | |
| | | 77 14 | 77 10 | 77 11 | 77 14 | | | |
| | | 77 21 | 77 16 | 77 12 | 77 14 | | | |
| | | 77 13 | 77 10 | 77 16 | 77 17 | | | |
| | | 77 15 | 77 13 | 77 11 | 77 13 | | | |
| | | 77 21 | 77 18 | 77 9 | 77 10 | | | |
| | | 77 14 | 77 12 | 77 11 | 77 12 | | | |
| | | | | | | | | |
| | | 77° 13' 36", 5.E. | 77° 13' 36", 5.E. | 77° 13' 14" | 77° 14' 40" | | | |
| | | | | | | | | |
| | | 77 16 | 77 14 | 77 9 | 77 12 | | | |
| | | 77 13 | 77 9 | 77 9 | 77 11 | | | |
| | | 77 12 | 77 9 | 77 14 | 77 16 | | | |
| | | 77 16 | 77 14 | 77 12 | 77 14 | | | |
| | | 77 15 | 77 12 | 77 10 | 77 12 | | | |
| | | 77 16 | 77 14 | 77 10 | 77 13 | | | |
| | | 77 11 | 77 8 | 77 15 | 77 16 | | | |
| | | 77 11 | 77 8 | 77 13 | 77 16 | | | |
| | | 77 18 | 77 15 | 77 8 | 77 11 | | | |
| | | 77 19 | 77 16 | 77 10 | 77 12 | | | |
| | | 77 17 | 77 15 | 77 15 | 77 16 | | | |
| | | 77 20 | 77 16 | 77 15 | 77 16 | | | |
| | | 77 22 | 77 18 | 77 10 | 77 13 | | | |
| | | 77 13 | 77 10 | 77 10 | 77 11 | | | |
| | | 77 9 | 77 6 | 77 15 | 77 16 | | | |
| | | | | | | | | |
| | | 77° 15' 46" | 77° 12' 52" | 77° 12' 2" | 77° 13' 46" | | | |

| DATES et HEURES. | DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE. | | | | | | | | REMARQUES. | | | |
|--|---|----------------------|-------------------------------|---------------|------------------------|---------------|-------------------------------|--|------------|--|--|--|
| | OBSERVATION. | MÉTÉO. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | | | |
| | | | Avant le retournement, | | Après le retournement, | | | | | | | |
| | | | angle direct. | angle opposé. | angle direct. | angle opposé. | Angle moyen. | | | | | |
| 1830. lundi, 1. à 10° 30' du soir. | B. | Pointe N. attirée. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | | | | |
| | | Points N. repoussée. | | | | | | | | | | |
| | | | 16° 5' | 16° 0' | 16° 2' | 16° 2' | | | | | | |
| | | | 16 5 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 8 | 16 4 | 16 2 | 16 2 | | | | | | |
| | | | 16 6 | 16 0 | 16 4 | 16 2 | | | | | | |
| | | | 16 6 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 8 | 16 8 | 16 0 | 16 0 | | | | | | |
| | | | 16 2 | 15 58 | 16 5 | 16 4 | | | | | | |
| | | | 16 0 | 15 58 | 16 5 | 16 5 | | | | | | |
| | | | 16 5 | 16 0 | 16 2 | 16 0 | | | | | | |
| | | | 16 6 | 16 2 | 16 2 | 16 0 | | | | | | |
| | | | 16 2 | 15 59 | 16 1 | 16 0 | | | | | | |
| | | | 16 10 | 16 4 | 16 0 | 16 0 | | | | | | |
| | | | 16 10 | 16 6 | 16 1 | 16 0 | | | | | | |
| | | | 16 8 | 16 0 | 16 4 | 16 0 | | | | | | |
| | | | 16 8 | 16 0 | 16 5 | 16 5 | | | | | | |
| | | | 16 5 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 5 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 6 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 8 | 16 0 | 16 4 | 16 2 | | | | | | |
| | | | 16 5 | 16 2 | 16 0 | 16 0 | | | | | | |
| | | | 16 8 | 16 4 | 16 0 | 16 0 | | | | | | |
| | | | 16 0 | 15 58 | 16 5 | 16 5 | | | | | | |
| | | | 16 2 | 16 0 | 16 2 | 16 2 | | | | | | |
| | | | 16 12 | 16 3 | 16 0 | 16 0 | | | | | | |
| | | | 16° 6' 0" | 16° 0' 32" | 16° 2' 34" | 16° 2' 0" | | | | | | |
| | R. | Pointe N. attirée. | | | | | | | | | | |
| | | Points N. repoussée. | | | | | | | | | | |
| | | | 16 5 | 16 0 | 16 5 | 16 5 | | | | | | |
| | | | 16 0 | 15 58 | 16 5 | 16 5 | | | | | | |
| | | | 16 2 | 15 59 | 16 8 | 16 8 | | | | | | |
| | | | 16 0 | 15 59 | 16 8 | 16 8 | | | | | | |
| | | | 16 5 | 16 0 | 16 5 | 16 5 | | | | | | |
| | | | 16 5 | 16 0 | 16 5 | 16 4 | | | | | | |
| | | | 16 4 | 15 58 | 16 2 | 16 2 | | | | | | |
| | | | 16 4 | 15 58 | 16 2 | 16 2 | | | | | | |
| | | | 16 5 | 16 0 | 16 2 | 16 2 | | | | | | |
| | | | 16 5 | 16 0 | 16 4 | 16 4 | | | | | | |
| | | | 16 5 | 16 0 | 16 1 | 16 1 | | | | | | |
| | | | 16 5 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 5 | 16 0 | 16 4 | 16 2 | | | | | | |
| | | | 16 5 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 5 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 5 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 10 | 16 5 | 16 0 | 16 0 | | | | | | |
| | | | 16 10 | 16 5 | 16 2 | 16 2 | | | | | | |
| | | | 16 8 | 16 4 | 16 0 | 16 0 | | | | | | |
| | | | 16 5 | 16 0 | 16 2 | 16 2 | | | | | | |
| | | | 16 5 | 16 0 | 16 4 | 16 4 | | | | | | |
| | | | 16 5 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 9 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 5 | 16 4 | 16 0 | 16 0 | | | | | | |
| | | | 16 5 | 16 0 | 16 2 | 16 2 | | | | | | |
| | | | 16 5 | 16 0 | 16 4 | 16 4 | | | | | | |
| | | | 16 5 | 16 0 | 16 0 | 16 0 | | | | | | |
| | | | 16 4' 56" | 16° 0' 24" | 16° 2' 34" | 16° 2' 28" | | | | | | |

VOYAGE AUTOUR DU MONDE.

| DATES et HEURES. | DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | | | REMARQUES. | | | |
|--|---|---------------------|---------------------------------|---------------|------------------------|---------------|---|--|------------|--|--|--|
| | OBSERVATEURS | INDICES. | AZIMUT MAGNÉTIQUE DE LA MIROIR. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | | | | |
| | | | Avant le retournement, | | Après le retournement, | | | | | | | |
| | | | angle direct. | angle opposé. | angle direct. | angle opposé. | Angle moyen. | | | | | |
| 1820. Avril, 1. de midi à 1 ^h 25' du soir. | B. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | | | | | |
| | | Pointe N. attirée. | | | | | | | | | | |
| | | | 16° 15' | 16° 10' | 16° 0' | 16° 0' | | | | | | |
| | | | 16 20 | 16 5 | 16 5 | 16 2 | | | | | | |
| | | | 16 18 | 16 8 | 16 5 | 16 5 | | | | | | |
| | | | 16 20 | 16 6 | 16 4 | 16 4 | | | | | | |
| | | | 16 20 | 16 7 | 16 5 | 16 5 | | | | | | |
| | | | 16 20 | 16 8 | 16 0 | 16 0 | | | | | | |
| | | | 16 20 | 16 5 | 16 0 | 16 0 | | | | | | |
| | | | 16 18 | 16 8 | 16 4 | 16 2 | | | | | | |
| | | | 16 15 | 16 10 | 16 3 | 16 3 | | | | | | |
| | | | 16 20 | 16 7 | 16 5 | 16 3 | | | | | | |
| | | | 16 22 | 16 5 | 16 2 | 16 0 | | | | | | |
| | | | 16 25 | 16 10 | 16 0 | 16 0 | | | | | | |
| | | | 16 22 | 16 9 | 16 10 | 16 5 | | | | | | |
| | | | 16 25 | 16 5 | 16 10 | 16 6 | | | | | | |
| | | | 16 25 | 16 5 | 16 5 | 16 4 | | | | | | |
| | | | | | | | S. 16° 7' 26". E. S. 3°13'20", 21. O. N. 9°20'40", 2. E. N. 10°27'46", 2. E. | | | | | |
| | | Pointe N. repousée. | | | | | | | | | | |
| | | | 16 25 | 16 5 | 16 5 | 16 0 | | | | | | |
| | | | 16 18 | 16 5 | 16 0 | 15 55 | | | | | | |
| | | | 16 25 | 16 6 | 16 5 | 15 55 | | | | | | |
| | | | 16 20 | 16 5 | 16 5 | 16 0 | | | | | | |
| | | | 16 25 | 16 5 | 16 0 | 15 55 | | | | | | |
| | | | 16 20 | 16 5 | 16 5 | 16 0 | | | | | | |
| | | | 16 20 | 16 6 | 16 0 | 15 55 | | | | | | |
| | | | 16 18 | 16 7 | 16 0 | 15 50 | | | | | | |
| | | | 16 28 | 16 5 | 16 0 | 15 55 | | | | | | |
| | | | 16 25 | 16 6 | 16 0 | 15 55 | | | | | | |
| | | | 16 25 | 16 8 | 16 3 | 15 58 | | | | | | |
| | | | 16 20 | 16 5 | 16 0 | 15 55 | | | | | | |
| | | | 16 25 | 16 5 | 16 4 | 16 0 | | | | | | |
| | | | 16 18 | 16 7 | 16 4 | 15 50 | | | | | | |
| | | | 16 18 | 16 5 | 16 0 | 15 50 | | | | | | |
| | | | | | | | | | | | | |
| | | 16° 21' 10" | 16° 6' 32" | 16° 2' 58" | 15° 59' 4" | | | | | | | |
| | R. | Pointe N. attirée. | | | | | | | | | | |
| | | | 16 20 | 16 10 | 16 0 | 16 0 | | | | | | |
| | | | 16 25 | 16 7 | 15 55 | 15 50 | | | | | | |
| | | | 16 18 | 16 9 | 16 0 | 16 0 | | | | | | |
| | | | 16 20 | 16 6 | 15 55 | 15 50 | | | | | | |
| | | | 16 15 | 16 5 | 15 55 | 15 50 | | | | | | |
| | | | 16 18 | 16 5 | 16 0 | 15 55 | | | | | | |
| | | | 16 20 | 16 7 | 16 2 | 15 58 | | | | | | |
| | | | 16 22 | 16 8 | 16 0 | 15 55 | | | | | | |
| | | | 16 25 | 16 10 | 16 0 | 16 0 | | | | | | |
| | | | 16 20 | 16 5 | 16 0 | 16 0 | | | | | | |
| | | | 16 20 | 16 5 | 16 3 | 15 58 | | | | | | |
| | | | 16 25 | 16 7 | 16 0 | 15 58 | | | | | | |
| | | | 16 25 | 16 5 | 16 0 | 15 55 | | | | | | |
| | | | 16 20 | 16 5 | 15 59 | 15 55 | | | | | | |
| | | | 16 18 | 16 5 | 16 0 | 15 58 | | | | | | |
| | | | | | | | S. 16°5'52", 5. E. S. 3°13'20", 2. O. N. 10°19'12", 7. N. N. 10°26'12", 7. E. | | | | | |
| | | Pointe N. repousée. | | | | | | | | | | |
| | | | 16 25 | 16 9 | 15 59 | 15 50 | | | | | | |
| | | | 16 25 | 16 7 | 16 0 | 15 55 | | | | | | |
| | | | 16 22 | 16 10 | 16 0 | 15 58 | | | | | | |
| | | | 16 20 | 16 5 | 16 0 | 15 58 | | | | | | |
| | | | 16 15 | 16 5 | 15 58 | 15 55 | | | | | | |
| | | | 16 18 | 16 6 | 15 59 | 15 55 | | | | | | |
| | | | 16 20 | 16 5 | 16 0 | 15 56 | | | | | | |
| | | | 16 20 | 16 5 | 16 0 | 15 56 | | | | | | |
| | | | 16 25 | 16 5 | 16 2 | 15 58 | | | | | | |
| | | | 16 22 | 16 7 | 16 0 | 15 57 | | | | | | |
| | | | 16 25 | 16 8 | 16 0 | 15 55 | | | | | | |
| | | | 16 25 | 16 8 | 16 0 | 15 55 | | | | | | |
| | | | 16 25 | 16 8 | 16 0 | 15 55 | | | | | | |
| | | | 16 22 | 16 7 | 16 0 | 15 56 | | | | | | |
| | | | 16 20 | 16 5 | 16 0 | 15 58 | | | | | | |
| | | | | | | | | | | | | |
| | | 16° 21' 20" | 16° 6' 38" | 15° 59' 34" | 15° 55' 8" | | | | | | | |

DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE.

| ATES UTRS. MIN. | OBSERVATEUR. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. Apparente. Vraie. | REMARQUES. | | | |
|-----------------------|--------------------------|-------------------------------|---------------|------------------------|---------------|-------------------------------|---|------------|--|--|--|
| | | Avant le retournement, | | Après le retournement, | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| | | | | | | | | | | | |

EXPÉRIENCES FAITES À LA BAIE-FRANÇAISE (ÎLES MALOUINES).

| | | | | | | | | |
|---|---------------------------------|--------------|--------------|--------------|--------------|--|--|--|
| 180. min. 10' 15' min. | Frey. Pointe N. attisée. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | |
| | | 16° 4' | 15° 58' | 16° 3' | 16° 0' | | | |
| | | 16 7 | 16 1 | 16 4 | 16 0 | | | |
| | | 16 7 | 16 2 | 16 3 | 16 0 | | | |
| | | 16 10 | 16 3 | 16 3 | 16 0 | | | |
| | | 16 8 | 16 2 | 16 3 | 16 0 | | | |
| | | 16 4 | 16 0 | 16 3 | 16 0 | | | |
| | | 16 5 | 16 1 | 16 3 | 16 0 | | | |
| | | 16 8 | 16 3 | 16 3 | 16 0 | | | |
| | | 16 8 | 16 2 | 16 3 | 16 0 | | | |
| | | 16 8 | 16 2 | 16 5 | 16 2 | | | |
| | | 16 10 | 16 4 | 16 3 | 16 0 | | | |
| | | 16 7 | 16 2 | 16 3 | 16 0 | | | |
| | | 16 10 | 16 4 | 16 5 | 16 2 | | | |
| | | 16 6 | 15 59 | 16 3 | 16 0 | | | |
| | | 16 10 | 16 3 | 16 5 | 16 2 | | | |
| S. 16° 2' 51", 5.E. S. 3° 13' 20", 3.O. N. 19° 16' 11", 7.E. N. 19° 23' 11", 7.E. | | | | | | | | |
| Lm. | Pointe N. repoussée. | 16 8 | 15 58 | 16 3 | 16 0 | | | |
| | | 16 5 | 15 59 | 16 3 | 16 0 | | | |
| | | 16 4 | 15 58 | 16 4 | 16 1 | | | |
| | | 16 7 | 16 2 | 16 4 | 16 1 | | | |
| | | 16 7 | 16 1 | 16 4 | 16 1 | | | |
| | | 16 7 | 15 59 | 16 3 | 16 0 | | | |
| | | 16 4 | 15 57 | 16 3 | 16 0 | | | |
| | | 16 4 | 15 57 | 16 3 | 16 0 | | | |
| | | 16 8 | 16 3 | 16 2 | 15 59 | | | |
| | | 16 10 | 16 4 | 16 3 | 16 0 | | | |
| | | 16 9 | 16 4 | 16 2 | 15 59 | | | |
| | | 16 8 | 16 2 | 16 3 | 16 0 | | | |
| | | 16 10 | 16 4 | 16 3 | 16 0 | | | |
| | | 16 6 | 15 58 | 16 3 | 16 0 | | | |
| | | 16 6 | 15 58 | 16 2 | 15 59 | | | |
| 16° 7' 0" 16° 1' 0" 16° 3' 14" 16° 0' 12" | | | | | | | | |
| Lm. | Pointe N. attisée. | 16 12 | 16 2 | 16 5 | 16 2 | | | |
| | | 16 5 | 16 0 | 16 6 | 16 3 | | | |
| | | 10 7 | 16 3 | 16 8 | 16 5 | | | |
| | | 16 5 | 16 0 | 16 5 | 16 2 | | | |
| | | 16 5 | 16 3 | 16 8 | 16 4 | | | |
| | | 16 10 | 16 3 | 16 8 | 16 3 | | | |
| | | 16 8 | 16 0 | 16 8 | 16 4 | | | |
| | | 16 10 | 16 2 | 16 5 | 16 2 | | | |
| | | 16 6 | 16 0 | 16 8 | 16 4 | | | |
| | | 16 12 | 16 3 | 16 10 | 16 6 | | | |
| Lm. | Pointe N. repoussée. | 16 12 | 16 5 | 16 8 | 16 5 | | | |
| | | 16 5 | 16 5 | 16 7 | 16 4 | | | |
| | | 16 10 | 16 2 | 16 8 | 16 3 | | | |
| | | 16 6 | 15 58 | 16 10 | 16 6 | | | |
| | | 16 8 | 16 0 | 16 6 | 16 3 | | | |
| | | 16 5 | 15 57 | 16 5 | 16 2 | | | |
| | | 16 8 | 16 0 | 16 6 | 16 3 | | | |
| | | 16 10 | 16 3 | 16 8 | 16 5 | | | |
| | | 16 12 | 16 5 | 16 10 | 16 6 | | | |
| | | 16 12 | 16 3 | 16 8 | 16 5 | | | |
| S. 16° 5' 21", 0.E. S. 3° 13' 20", 3.O. N. 19° 18' 41", 2.E. N. 19° 25' 41", 2.E. | | | | | | | | |
| Lm. | Pointe N. attisée. | 16 8 | 16 0 | 16 6 | 16 3 | | | |
| | | 16 10 | 16 3 | 16 8 | 16 4 | | | |
| | | 16 10 | 16 3 | 16 8 | 16 4 | | | |
| | | 16 12 | 16 4 | 16 10 | 16 5 | | | |
| | | 16 12 | 16 3 | 16 8 | 16 4 | | | |
| | | 16 8 | 16 0 | 16 8 | 16 3 | | | |
| | | 16 12 | 16 5 | 16 6 | 16 2 | | | |
| | | 16 12 | 16 5 | 16 10 | 16 5 | | | |
| | | 16 10 | 16 2 | 16 8 | 16 4 | | | |
| | | 16 12 | 16 3 | 16 8 | 16 5 | | | |
| Lm. | Pointe N. repoussée. | 16 10 | 16 2 | 16 10 | 16 5 | | | |
| | | 16 10 | 16 3 | 16 6 | 16 2 | | | |
| | | 16 10 | 16 2 | 16 5 | 16 0 | | | |
| | | 16 8 | 15 58 | 16 5 | 16 1 | | | |
| | | 16 6 | 15 58 | 16 5 | 16 2 | | | |
| | | 16 9' 2" | 16° 1' 38" | 16° 7' 20" | 16° 3' 24" | | | |

DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE.

| DATES et HEURES. | OBSERVATEUR. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la mire. | DÉCLINAISON de l'aiguille aimantée. | REMARQUES. | | | |
|------------------------|--------------------------|-------------------------------|---------------|------------------------|---------------|-------------------------------|--|------------|--|--|--|
| | | Avant le retournement, | | Après le retournement, | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| | | | | | | | | | | | |

EXPÉRIENCES FAITES À MONTEVIDEO (RIO DE LA PLATA).

| | | | | | | | | |
|---|----------------------|--------------|--------------|--------------|--------------|---|--|--|
| 1820. Mai, 30, 11 ^h 15 ^m matin jusqu'à 2 ^e soir. | Lun. | Du S. à l'E. | Du N. à l'O. | Du S. à l'E. | Du N. à l'O. | | | |
| | | 59° 0' | 58° 32' | 58° 35' | 58° 35' | | | |
| | | 58 55 | 58 35 | 58 40 | 58 35 | | | |
| | | 59 0 | 58 37 | 58 35 | 58 35 | | | |
| | | 58 50 | 58 26 | 58 38 | 58 35 | | | |
| | | 58 55 | 58 27 | 58 35 | 58 30 | | | |
| | | 58 55 | 58 40 | 58 40 | 58 35 | | | |
| | | 59 0 | 58 40 | 58 38 | 58 35 | | | |
| | | 58 55 | 58 35 | 58 35 | 58 30 | | | |
| | | 58 50 | 58 30 | 58 40 | 58 30 | | | |
| | | 58 50 | 58 35 | 58 40 | 58 36 | | | |
| | | 58 45 | 58 35 | 58 40 | 58 35 | | | |
| | | 58 50 | 58 32 | 58 45 | 58 40 | | | |
| | | 58 55 | 58 40 | 58 45 | 58 38 | | | |
| | | 58 50 | 58 35 | 58 40 | 58 36 | | | |
| | | 58 50 | 58 37 | 58 40 | 58 35 | | | |
| | | | | | | S.58°38'31",0.E. S.45°57'20",4.E. N.12°41'4",6.E. N.12°48'4",6.E. | | |
| | | | | | | | | |
| | | 58 40 | 58 30 | 58 40 | 58 32 | | | |
| | | 58 42 | 58 28 | 58 40 | 58 32 | | | |
| | | 58 43 | 58 27 | 58 40 | 58 30 | | | |
| | | 58 30 | 58 25 | 58 42 | 58 32 | | | |
| | | 58 45 | 58 25 | 58 45 | 58 35 | | | |
| | | 58 42 | 58 28 | 58 45 | 58 35 | | | |
| | | 58 50 | 58 25 | 58 42 | 58 35 | | | |
| | | 58 45 | 58 27 | 58 45 | 58 35 | | | |
| | | 58 45 | 58 27 | 58 40 | 58 30 | | | |
| | | 58 48 | 58 27 | 58 48 | 58 35 | | | |
| | | 58 48 | 58 27 | 58 45 | 58 34 | | | |
| | | 58 50 | 58 33 | 58 40 | 58 30 | | | |
| | | 58 50 | 58 25 | 58 40 | 58 32 | | | |
| | | 58 42 | 58 28 | 58 37 | 58 32 | | | |
| | | 58 42 | 58 30 | 58 45 | 58 35 | | | |
| | | | | | | | | |
| | | 58° 48' 44" | 58° 30' 52" | 58° 40' 40" | 58° 35' 48" | | | |
| | | | | | | | | |
| P. | Pointe N. repoussée. | 58 35 | 58 35 | 58 45 | 58 35 | | | |
| | | 59 0 | 58 35 | 58 35 | 58 30 | | | |
| | | 58 45 | 58 30 | 58 30 | 58 30 | | | |
| | | 58 40 | 58 30 | 58 40 | 58 30 | | | |
| | | 58 45 | 58 35 | 58 40 | 58 35 | | | |
| | | 58 50 | 58 30 | 58 45 | 58 35 | | | |
| | | 58 40 | 58 25 | 58 40 | 58 30 | | | |
| | | 58 40 | 58 33 | 58 30 | 58 30 | | | |
| | | 58 50 | 58 30 | 58 35 | 58 30 | | | |
| | | 58 45 | 58 25 | 58 40 | 58 35 | | | |
| | | 58 45 | 58 30 | 58 40 | 58 35 | | | |
| | | 58 45 | 58 30 | 58 35 | 58 25 | | | |
| | | 58 50 | 58 35 | 58 40 | 58 30 | | | |
| | | 58 45 | 58 30 | 58 45 | 58 35 | | | |
| | | 58 45 | 58 35 | 58 40 | 58 30 | | | |
| | | | | | | S.58°36'13",0.E. S.45°57'26",4.E. N.12°38'46",6.E. N.12°45'46",6.E. | | |
| | | | | | | | | |
| | | 58 45 | 58 35 | 58 40 | 58 30 | | | |
| | | 58 45 | 58 38 | 58 40 | 58 30 | | | |
| | | 58 40 | 58 35 | 58 45 | 58 35 | | | |
| | | 58 40 | 58 35 | 58 45 | 58 35 | | | |
| | | 58 35 | 58 35 | 58 48 | 58 35 | | | |
| | | 58 38 | 58 30 | 58 50 | 58 35 | | | |
| | | 58 45 | 58 30 | 58 50 | 58 40 | | | |
| | | 58 50 | 58 30 | 58 35 | 58 30 | | | |
| | | 58 50 | 58 30 | 58 40 | 58 35 | | | |
| | | 58 55 | 58 35 | 58 35 | 58 25 | | | |
| | | 58 50 | 58 30 | 58 35 | 58 30 | | | |
| | | 58 45 | 58 28 | 58 40 | 58 25 | | | |
| | | 58 45 | 58 28 | 58 45 | 58 30 | | | |
| | | 58 45 | 58 30 | 58 30 | 58 30 | | | |
| | | 58 40 | 58 25 | 58 33 | 58 25 | | | |
| | | | | | | | | |
| | | 58° 43' 16" | 58° 31' 4" | 58° 39' 12" | 58° 31' 20" | | | |

VOYAGE AUTOUR DU MONDE.

| | | DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | |
|---|-----|---|-------------------------------|---------------|------------------------|---------------|---|--|--------------------|--------------------|--|--|
| DATES et HEURES. | | OBSERVATION. Indicat. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la 1 ^{re} mire. | DÉCLINAISON de l'aiguille aimantée. | | REMARQUES. | | |
| | | | Avant le retournement, | | Après le retournement, | | | Angle moyen. | Apparente. | | | |
| | | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | Vraie. | | | |
| 1820. Juillet, 25, 6 ^h 45' à 8 ^h 15' du matin. | Dp. | Pointe N. repoussée. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | | | | |
| | | Pointe N. attirée. | 39° 15' | 39° 10' | 39° 20' | 39° 30' | | | | | | |
| | | | 39° 20 | 39 15 | 39 25 | 39 32 | | | | | | |
| | | | 39 20 | 39 15 | 39 30 | 39 35 | | | | | | |
| | | | 39 15 | 39 10 | 39 30 | 39 35 | | | | | | |
| | | | 39 20 | 39 15 | 39 30 | 39 35 | | | | | | |
| | | | 39 18 | 39 15 | 39 30 | 39 32 | | | | | | |
| | | | 39 20 | 39 15 | 39 25 | 39 30 | | | | | | |
| | | | 39 20 | 39 15 | 39 27 | 39 32 | | | | | | |
| | | | 39 25 | 39 20 | 39 30 | 39 35 | | | | | | |
| | | | 39 20 | 39 18 | 39 30 | 39 35 | | | | | | |
| | | | 39 20 | 39 15 | 39 27 | 39 35 | | | | | | |
| | | | 39 20 | 39 15 | 39 27 | 39 32 | | | | | | |
| | | | 39 20 | 39 18 | 39 27 | 39 30 | | | | | | |
| | | | 39 15 | 39 15 | 39 30 | 39 32 | | | | | | |
| | | | | | | | N. 39° 24' 36" S.E. | S. 137° 7' 1" S.E. | N. 3° 28' 21" S.E. | N. 3° 35' 21" S.E. | | |
| | | Pointe N. attirée. | 39 20 | 39 18 | 39 30 | 39 35 | | | | | | |
| | | | 39 25 | 39 20 | 39 30 | 39 32 | | | | | | |
| | | | 39 20 | 39 18 | 39 32 | 39 37 | | | | | | |
| | | | 39 25 | 39 18 | 39 30 | 39 37 | | | | | | |
| | | | 39 20 | 39 15 | 39 32 | 39 37 | | | | | | |
| | | | 39 20 | 39 15 | 39 32 | 39 35 | | | | | | |
| | | | 39 25 | 39 18 | 39 32 | 39 35 | | | | | | |
| | | | 39 20 | 39 15 | 39 32 | 39 35 | | | | | | |
| | | | 39 20 | 39 15 | 39 32 | 39 35 | | | | | | |
| | | | 39 25 | 39 18 | 39 32 | 39 35 | | | | | | |
| | | | 39 20 | 39 18 | 39 27 | 39 32 | | | | | | |
| | | | 39 20 | 39 18 | 39 30 | 39 32 | | | | | | |
| | | | 39 15 | 39 12 | 39 32 | 39 35 | | | | | | |
| | | | 39 18 | 39 15 | 39 32 | 39 35 | | | | | | |
| | | | | | | | | | | | | |
| | | | 39° 19' 52" | 39° 15' 44" | 39° 29' 12" | 39° 33' 38" | | | | | | |
| | Dp. | Pointe N. repoussée. | 39 15 | 39 10 | 39 30 | 39 35 | | | | | | |
| | | | 39 18 | 39 15 | 39 30 | 39 35 | | | | | | |
| | | | 39 20 | 39 15 | 39 28 | 39 32 | | | | | | |
| | | | 39 20 | 39 15 | 39 32 | 39 37 | | | | | | |
| | | | 39 18 | 39 15 | 39 32 | 39 35 | | | | | | |
| | | | 39 15 | 39 10 | 39 32 | 39 35 | | | | | | |
| | | | 39 18 | 39 15 | 39 27 | 39 30 | | | | | | |
| | | | 39 15 | 39 10 | 39 27 | 39 32 | | | | | | |
| | | | 39 20 | 39 15 | 39 30 | 39 32 | | | | | | |
| | | | 39 18 | 39 15 | 39 30 | 39 32 | | | | | | |
| | | | 39 18 | 39 15 | 39 32 | 39 35 | | | | | | |
| | | | 39 18 | 39 15 | 39 27 | 39 32 | | | | | | |
| | | | 39 18 | 39 15 | 39 30 | 39 32 | | | | | | |
| | | | 39 15 | 39 12 | 39 30 | 39 32 | | | | | | |
| | | | 39 20 | 39 18 | 39 27 | 39 32 | | | | | | |
| | | | | | | | N. 39° 24' 0" S.E. | S. 137° 7' 1" S.E. | N. 3° 28' 58" S.E. | N. 3° 35' 58" S.E. | | |
| | | Pointe N. attirée. | 39 15 | 39 15 | 39 30 | 39 32 | | | | | | |
| | | | 39 15 | 39 15 | 39 30 | 39 32 | | | | | | |
| | | | 39 15 | 39 15 | 39 32 | 39 35 | | | | | | |
| | | | 39 20 | 39 18 | 39 30 | 39 35 | | | | | | |
| | | | 39 18 | 39 15 | 39 32 | 39 35 | | | | | | |
| | | | 39 20 | 39 15 | 39 32 | 39 35 | | | | | | |
| | | | 39 18 | 39 15 | 39 30 | 39 35 | | | | | | |
| | | | 39 18 | 39 15 | 39 30 | 39 32 | | | | | | |
| | | | 39 20 | 39 15 | 39 30 | 39 33 | | | | | | |
| | | | 39 18 | 39 15 | 39 30 | 39 33 | | | | | | |
| | | | 39 18 | 39 15 | 39 30 | 39 32 | | | | | | |
| | | | | | | | | | | | | |
| | | | 39° 17' 58" | 39° 14' 42" | 39° 29' 58" | 39° 33' 22" | | | | | | |

N. B. On a fait usage
ici d'une première mire.

DÉCLINAISON DE L'AIGUILLE N° 11 DE LA BOUSSOLE TERRESTRE.

| DATES et HEURES. | OBSERVATIONS. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | AZIMUT vrai de la 1 ^{re} mire. | DÉCLINAISON de l'aiguille aimantée. | REMARQUES. | | | |
|--|---------------------------|-------------------------------|---------------|---------------|------------------------|--------------|--|---|--|------------|--|--|--|
| | | Avant le retournement, | | | Après le retournement, | | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | Angle moyen. | | | | | | | |
| 1820. Juillet, 25, de midi à 1 ^h 30' soir. | Dp. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | | | | | | |

EXPÉRIENCES FAITES À RIO DE JANEIRO (2^e RÉLÂCHE).

| | | | | | | | | | | |
|----------------------|-----|---------|---------|---------|---------|--|-------------|------------|-------------------------------------|--|
| Pointe N. repoussée. | Dp. | 39° 18' | 39° 20' | 39° 28' | 39° 30' | | | | | |
| | | 39 20 | 39 25 | 39 28 | 39 30 | | | | | |
| | | 39 20 | 39 25 | 39 26 | 39 30 | | | | | |
| | | 39 20 | 39 25 | 39 28 | 39 30 | | | | | |
| | | 39 23 | 39 25 | 39 28 | 39 30 | | | | | |
| | | 39 20 | 39 25 | 39 28 | 39 30 | | | | | |
| | | 39 20 | 39 23 | 39 28 | 39 30 | | | | | |
| | | 39 25 | 39 27 | 39 25 | 39 28 | | | | | |
| | | 39 23 | 39 27 | 39 25 | 39 30 | | | | | |
| | | 39 30 | 39 32 | 39 28 | 39 30 | | | | | |
| | | 39 30 | 39 32 | 39 28 | 39 30 | | | | | |
| | | 39 30 | 39 32 | 39 28 | 39 30 | | | | | |
| | | 39 27 | 39 30 | 39 25 | 39 28 | | | | | |
| | | 39 30 | 39 30 | 39 28 | 39 30 | | | | | |
| | | | | | | N. 39° 27' 42". E. S. 137° 7' 1", 6.E. N. 3° 25' 16", 4.E. N. 3° 32' 16", 4.E. | | | Même remarque ici que précédemment. | |
| Pointe N. attirée. | Dp. | 39 20 | 89 25 | 39 28 | 39 30 | | | | | |
| | | 39 20 | 39 25 | 39 28 | 39 30 | | | | | |
| | | 39 22 | 39 27 | 39 28 | 39 30 | | | | | |
| | | 39 25 | 39 27 | 39 30 | 39 30 | | | | | |
| | | 39 25 | 39 28 | 39 30 | 39 30 | | | | | |
| | | 39 27 | 39 28 | 39 30 | 39 30 | | | | | |
| | | 39 27 | 39 28 | 39 30 | 39 32 | | | | | |
| | | 39 28 | 89 28 | 39 30 | 39 30 | | | | | |
| | | 39 28 | 39 30 | 39 30 | 39 30 | | | | | |
| | | 39 28 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 30 | 39 30 | 39 30 | 39 30 | | | | | |
| | | 39 28 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 28 | 39 30 | 39 30 | 39 32 | | | | | |
| | | 39 30 | 39 30 | 39 28 | 39 30 | | | | | |
| | | | | | | 39° 25' 10" | 39° 27' 42" | 39° 28' 0" | 39° 29' 56" | |
| Pointe N. repoussée. | Dp. | 39 28 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 28 | 39 32 | 39 28 | 39 32 | | | | | |
| | | 39 30 | 39 32 | 39 30 | 39 32 | | | | | |
| | | 39 30 | 39 32 | 39 30 | 39 32 | | | | | |
| | | 39 28 | 39 30 | 39 28 | 39 32 | | | | | |
| | | 39 28 | 39 30 | 39 26 | 39 28 | | | | | |
| | | 39 28 | 39 30 | 39 26 | 39 28 | | | | | |
| | | 39 30 | 39 32 | 39 28 | 39 30 | | | | | |
| | | 39 30 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 30 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 28 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 28 | 39 30 | 39 28 | 39 32 | | | | | |
| | | 39 30 | 39 30 | 39 28 | 39 30 | | | | | |
| | | | | | | N. 39° 28' 39", 5.E. S. 137° 7' 1", 6.E. N. 3° 24' 18", 9.E. N. 3° 31' 18", 9.E. | | | | |
| Pointe N. attirée. | Dp. | 39 28 | 39 30 | 39 25 | 39 28 | | | | | |
| | | 39 28 | 39 28 | 39 25 | 39 28 | | | | | |
| | | 39 26 | 39 28 | 39 28 | 39 28 | | | | | |
| | | 39 28 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 26 | 39 28 | 39 30 | 39 30 | | | | | |
| | | 39 26 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 26 | 39 28 | 39 30 | 39 30 | | | | | |
| | | 39 28 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 26 | 39 28 | 39 28 | 39 30 | | | | | |
| | | 39 26 | 39 28 | 39 28 | 39 32 | | | | | |
| | | 39 28 | 39 30 | 39 28 | 39 30 | | | | | |
| | | 39 20 | 39 25 | 39 28 | 39 28 | | | | | |
| | | 39 20 | 39 25 | 39 28 | 39 30 | | | | | |
| | | 39 25 | 39 28 | 39 28 | 39 30 | | | | | |
| | | | | | | 39° 27' 14" | 39° 29' 20" | 39° 28' 8" | 39° 29' 56" | |

| DATES et HEURES. | OBSERVATEUR. | INDICES. | DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | REMARQUES. | | | | |
|---|--------------|--------------|---|---------------|----------------------|---------------|---|--|------------|--|--|--|--|
| | | | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | AZIMUT vrai de la 1 ^{re} mire. | DÉCLINAISON de l'aiguille aimantée. Apparete. Vraie. | | | | | |
| | | | Avant le retourment, | | Après le retourment, | | | | | | | | |
| | | | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | | |
| EXPÉRIENCES FAITES À RIO DE JANEIRO (2 ^e RELÂCHE). | | | | | | | | | | | | | |
| 1820. Juillet, 28, midi 30' à 1 ^h 12' soir. | Dp. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | | | | | | |
| | | 39° 18' | 39° 18' | 39° 30' | 39° 32' | | | | | | | | |
| | | 39 15 | 39 18 | 39 30 | 39 30 | | | | | | | | |
| | | 39 15 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 30 | | | | | | | | |
| | | 39 20 | 39 20 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 20 | 39 28 | 39 30 | | | | | | | | |
| | | 39 16 | 39 18 | 39 30 | 39 30 | | | | | | | | |
| | | 39 15 | 39 18 | 39 30 | 39 30 | | | | | | | | |
| | | 39 15 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 15 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 15 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 15 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 15 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 15 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |
| | | 39 18 | 39 18 | 39 28 | 39 30 | | | | | | | | |
| | | 39 18 | 39 18 | 39 30 | 39 32 | | | | | | | | |

| DÉCLINAISON DE L'AIGUILLE N° 10 DE LA BOUSSOLE TERRESTRE. | | | | | | | | | | | | | |
|--|---------------------------|-------------------------------|---------------|------------------------|---------------|---------------|---------------|--|---|------------|--|--|--|
| DATES HEURES. | OBSERVATRICE. INDICES. | AZIMUT MAGNÉTIQUE DE LA MIRE. | | | | | | AZIMUT vrai de la 2 ^e mire. | DÉCLINAISON de l'aiguille aimantée. Apparente. Vraie. | RÉMARQUES. | | | |
| | | Avant le retournement, | | Après le retournement, | | Angle moyen. | | | | | | | |
| | | angle direct. | angle opposé. | angle direct. | angle opposé. | angle direct. | angle opposé. | | | | | | |
| 1820. Août, 26. de 2 ^h 15' à 3 ^h 50' du soir. | Frey. | Du N. à l'E. | Du S. à l'O. | Du N. à l'E. | Du S. à l'O. | | | | | | | | |
| | | 79° 30' | 79° 34' | 79° 40' | 79° 58' | | | | | | | | |
| | | 79 15 | 79 25 | 79 28 | 79 43 | | | | | | | | |
| | | 79 15 | 79 20 | 79 36 | 79 40 | | | | | | | | |
| | | 79 28 | 79 35 | 79 38 | 79 45 | | | | | | | | |
| | | 79 15 | 79 25 | 79 33 | 79 47 | | | | | | | | |
| | | 79 28 | 79 35 | 79 36 | 79 42 | | | | | | | | |
| | | 79 20 | 79 32 | 79 40 | 79 48 | | | | | | | | |
| | | 79 25 | 79 30 | 79 44 | 80 1 | | | | | | | | |
| | | 79 26 | 79 38 | 79 28 | 79 44 | | | | | | | | |
| | | 79 25 | 79 26 | 79 25 | 79 44 | | | | | | | | |
| | | 79 12 | 79 20 | 79 28 | 79 40 | | | | | | | | |
| | | 79 28 | 79 35 | 79 38 | 79 57 | | | | | | | | |
| | | 79 20 | 79 28 | 79 38 | 79 57 | | | | | | | | |
| | | 79 28 | 79 36 | 79 28 | 79 38 | | | | | | | | |
| | | 79 15 | 79 20 | 79 40 | 79 55 | | | | | | | | |
| | | 79 30 | 79 38 | 79 30 | 79 42 | | | | | | | | |
| | | 79 15 | 79 25 | 79 48 | 79 59 | | | | | | | | |
| | | 79 25 | 79 33 | 79 42 | 79 59 | | | | | | | | |
| | | 79 12 | 79 20 | 79 28 | 79 40 | | | | | | | | |
| | | 79 28 | 79 35 | 79 28 | 79 42 | | | | | | | | |
| | | 79 20 | 79 28 | 79 38 | 79 57 | | | | | | | | |
| | | 79 28 | 79 36 | 79 28 | 79 38 | | | | | | | | |
| | | 79 15 | 79 20 | 79 40 | 79 55 | | | | | | | | |
| | | 79 30 | 79 38 | 79 30 | 79 42 | | | | | | | | |
| | | 79 15 | 79 25 | 79 48 | 79 59 | | | | | | | | |
| | | 79 25 | 79 33 | 79 42 | 79 55 | | | | | | | | |
| | | 79 20 | 79 25 | 79 42 | 79 55 | | | | | | | | |
| | | 79 25 | 79 32 | 79 45 | 79 60 | | | | | | | | |
| | | 79 30 | 79 38 | 79 31 | 79 44 | | | | | | | | |
| | | 79 20 | 79 29 | 79 36 | 79 50 | | | | | | | | |
| | | 79 28 | 79 37 | 79 30 | 79 43 | | | | | | | | |
| | | 79 28 | 79 33 | 79 30 | 79 44 | | | | | | | | |
| | | 79 16 | 79 34 | 79 38 | 79 46 | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 79° 22' 52" | 79° 30' 42" | 79° 35' 4" | 79° 47' 40" | | | | | | | | |
| | | | | | | | | | | | | | |
| | Frey. | | | | | | | | | | | | |
| | | Pointe N. arrivée. | | | | | | | | | | | |
| | | 79 30 | 79 36 | 79 42 | 79 55 | | | | | | | | |
| | | 79 28 | 79 32 | 79 42 | 79 55 | | | | | | | | |
| | | 79 15 | 79 23 | 79 32 | 79 46 | | | | | | | | |
| | | 79 28 | 79 32 | 79 38 | 79 56 | | | | | | | | |
| | | 79 17 | 79 25 | 79 40 | 79 58 | | | | | | | | |
| | | 79 30 | 79 35 | 79 35 | 79 43 | | | | | | | | |
| | | 79 17 | 79 25 | 79 33 | 79 46 | | | | | | | | |
| | | 79 12 | 79 23 | 79 42 | 79 58 | | | | | | | | |
| | | 79 15 | 79 22 | 79 45 | 80 0 | | | | | | | | |
| | | 79 20 | 79 26 | 79 32 | 79 46 | | | | | | | | |
| | | 79 30 | 79 40 | 79 28 | 79 38 | | | | | | | | |
| | | 79 16 | 79 22 | 79 42 | 79 58 | | | | | | | | |
| | | 79 20 | 79 25 | 79 38 | 79 57 | | | | | | | | |
| | | 79 32 | 79 40 | 79 42 | 79 58 | | | | | | | | |
| | | 79 15 | 79 25 | 79 25 | 79 36 | | | | | | | | |
| | | | | | | | | | | | | | |
| | | Pointe N. repousée. | | | | | | | | | | | |
| | | 79 15 | 79 25 | 79 44 | 80 1 | | | | | | | | |
| | | 79 17 | 79 30 | 79 42 | 79 47 | | | | | | | | |
| | | 79 16 | 79 22 | 79 40 | 79 58 | | | | | | | | |
| | | 79 30 | 79 32 | 79 43 | 79 58 | | | | | | | | |
| | | 79 32 | 79 40 | 79 42 | 79 55 | | | | | | | | |
| | | 79 13 | 79 19 | 79 28 | 79 38 | | | | | | | | |
| | | 79 17 | 79 25 | 79 43 | 80 1 | | | | | | | | |
| | | 79 15 | 79 24 | 79 40 | 79 47 | | | | | | | | |
| | | 79 20 | 79 30 | 79 31 | 79 44 | | | | | | | | |
| | | 79 30 | 79 38 | 79 43 | 79 59 | | | | | | | | |
| | | 79 12 | 79 20 | 79 44 | 79 59 | | | | | | | | |
| | | 79 17 | 79 25 | 79 43 | 79 58 | | | | | | | | |
| | | 79 15 | 79 23 | 79 29 | 79 38 | | | | | | | | |
| | | 79 25 | 79 32 | 79 29 | 79 43 | | | | | | | | |
| | | 79 30 | 79 37 | 79 40 | 79 59 | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 79° 20' 58" | 79° 28' 26" | 79° 37' 54" | 79° 51' 50" | | | | | | | | |

On a fait usage d'une seconde mire.

§ II. — Résumé des observations de déclinaisons magnétiques faites à terre.

| LOCALITÉ. | POSITION GÉOGRAPHIQUE. | | DATE. | OBSERVATEURS. | AIGUILLE employée. | DÉCLINAISON corrigée. | DÉCLINAISON moyenne définitive. | REMARQUES. |
|---|------------------------|-------------------------|--|--|--|---|---------------------------------|------------|
| | Latitude. | Longitude. | | | | | | |
| S ^e -Croix de Ténériffe. (Canaries.) | Nord. 28° 28' 30" | O. Paris. 18° 36' 0" | 1817. Octobre. 26..... 26..... | Lc. Fb. Frey. Lc. | n° 11. n° 10. | N. O. 21° 28' 43",4 20 39 7,5 | N. O. 21° 3' 55",4 | |
| | | | Décembre. 24..... 24..... 24..... 26..... | Frey. Lc. Frey. Lc. Frey. Lc. Frey. | n° 11. n° 10. n° 10. n° 10. | N. E. 2 14 10,2 2 14 36,2 2 20 51,2 2 9 1,7 | N. E. 2 14 39,8 | |
| Brésil. Rio de Janeiro. (1 ^{re} relâche.) | Sud. 22 55 1 | 45 38 52 | 1818. Mars. 12..... 12..... | Frey. | n° 11. n° 10. | N. O. 26 30 29,4 26 30 32,4 | N. O. 26 30 30,9 | |
| | | | Mai. 28..... 28..... 28..... | | | | | |
| Île-de-France. (Port-Louis.) | 20 9 56 | 55 8 26 | Septembre. 23..... 23..... | Dp. | n° 10. | 12 52 20,2 | | |
| | | | | Dp. | n° 10. | 12 51 5,2 | 12 46 25,7 | |
| Île Bourbon. (Saint-Denis.) | 20 51 30 | 53 10 15 | Juillet. 25..... | Lc. | n° 10. | 15 38 20,2 | 15 38 20,2 | |
| | | | | | | | | |
| Baie des Chiens-Marins. (Nouvelle-Hollande.) | 25 43 21 | 110 59 13 | Octobre. 12..... 12..... | P. Fb. | n° 10. | 3 41 26,2 | 3 38 4,4 | |
| | | | | P. Fb. | n° 11. | 3 34 42,7 | | |
| Coupang. (I. Timor.) | 10 9 55 | 121 15 22 | Novembre. 19..... 19..... | R. B. | n° 10. | 0 13 22,4 | | |
| | | | | R. B. | n° 11. | 0 13 54,2 | 0 13 38,3 | |
| Dillé. (I. Timor.) | 8 32 57 | 123 9 16 | Décembre. 24..... 24..... 24..... 24..... | Dp. P. | n° 11. n° 11. | 0 37 34,3 0 34 50,3 | 0 36 12,3 | |
| | | | | | | | | |
| I. Rawak. (îles des Papous.) | 0 1 34 | 128 35 5 | 1819. Mars. 24..... 24..... 24..... 24..... | Lm. Frey. R. Frey. | n° 11. n° 11. n° 10. n° 10. | 1 32 57,8 1 30 24,0 1 27 56,6 1 28 11,1 | 1 29 52,4 | |
| | | | | | | | | |
| Umata. (I. Guam, I. Mariannes.) | 13 17 16 | 142 31 56 | Avril. 23..... 23..... 24..... 24..... | Lm. Frey. Lm. R. Lm. R. | n° 10. n° 10. n° 10. n° 10. n° 11. n° 11. | 2 45 5,0 2 44 44,0 2 42 23,0 2 45 35,0 2 46 30,0 2 46 42,0 | 2 45 9,8 | |
| | | | | | | | | |
| Agagna. (I. Guam, I. Mariannes.) | 13 27 51 | 142 37 25 | O. Paris. 23..... 23..... 24..... 24..... | Dp. Frey. Frey. Frey. | n° 10. n° 10. n° 11. n° 11. | 9 2 51,8 9 3 29,3 4 39 38,0 4 39 47,5 | 4 39 17,0 | |
| | | | | Dp. B. | n° 11. n° 11. | 8 47 22,5 8 48 3,8 | 8 55 26,8 | |
| Baie de Kayakakoua ou Kairoua. (I. Owhyhi, I. Sandwich.) | 19 13 20 | 158 24 38 | | | | | | |

| LOCALITÉ. | POSITION GÉOGRAPHIQUE. | | DATE. | OBSERVATEURS. | AIGUILLE employée. | DÉCLINAISON corrigée. | DÉCLINAISON moyenne définitive. | REMARQUES. |
|---|------------------------|--------------|---|--|--|---|---------------------------------|------------|
| | Latitude. | Longitude. | | | | | | |
| | Nord. | O. Paris. | 1819. Août. | | | N. E. | N. E. | |
| Baie de Hohai-Hai. (I. Owhyhi, I. Sandwich.) | 20° 3' 17" | 158° 13' 22" | 13..... 13..... 13..... 13..... | Lm. B. Lm. Lm. | n° 10. n° 10. n° 11. n° 11. | 9° 50' 51",2 9 52 17,5 9 48 23,5 9 50 6,2 | | |
| Raheina. (I. Mowi, I. Sandwich.) | 20 52 7 | 159 2 3 | 17..... 17..... 17..... 18..... 18..... 18..... | Frey. Lm. Db. Lm. Fr. Fb. | n° 10. n° 10. n° 10. n° 11. n° 11. n° 11. | 8 38 33,0 8 37 7,5 8 40 4,5 8 58 6,0 9 0 45,0 9 1 26,3 | 8 49 20,4 | |
| Onorourou. (I. Wahou, I. Sandwich.) | 21 19 13 | 160 12 1 | 27..... 27..... 27..... 27..... | R. B. R. B. | n° 11. n° 11. n° 10. n° 10. | 10 24 32,9 10 24 40,4 10 22 50,9 10 23 10,4 | 10 23 48,6 | |
| | Sud. | E. Paris. | Décembre. | | | | | |
| Port-Jackson; Ville de Sydney. (Nouvelle-Hollande.) | 33 51 34 | 148 48 0 | 3..... 3..... 3..... 3..... 4..... 4..... 4..... 4..... | Lm. G. Frey. Dp. Lm. Fb. Frey. Frey. | n° 10. n° 10. n° 10. n° 10. n° 11. n° 11. n° 11. n° 11. | 9 17 53,9 9 17 15,4 9 14 47,4 9 14 40,4 9 10 20,9 9 6 19,4 9 16 48,4 9 18 45,9 | | |
| | | O. Paris. | 1820. Mars. | | | | | |
| | | | 24..... 24..... Avril. | Frey. Frey. | n° 10. n° 10. | 19 28 10,2 19 28 25,7 | | |
| Illes Malouines. (Baie-Française.) | 51 35 18 | 60 26 52 | 1..... 1..... 1..... 1..... 3..... 3..... | B. R. B. R. Frey. Lm. | n° 11. n° 11. n° 10. n° 10. n° 11. n° 11. | 19 23 6,7 19 22 55,7 19 27 46,2 19 26 12,7 19 23 11,7 19 25 41,2 | 19 25 41 | |
| | | | Mai. | | | | | |
| Montevideo. (Rio de la Plata.) | 34 54 3 | 58 34 45 | 30..... 30..... 30..... 30..... | Lm. P. Lm. P. | n° 10. n° 10. n° 11. n° 11. | 12 47 43,1 12 46 0,6 12 48 4,6 12 45 46,6 | 12 46 53,7 | |
| | | | Juillet. | | | | | |
| | | | 25..... 25..... 25..... 25..... 28..... 28..... 29..... 29..... Aout. | Dp. Dp. Dp. Dp. Dp. Dp. Dp. Dp. Frey. Frey. | n° 10. n° 10. n° 11. n° 11. n° 10. n° 10. n° 11. n° 11. n° 10. n° 10. | 3 35 21,9 3 35 58,4 3 32 16,4 3 31 18,9 3 36 31,4 3 37 8,4 3 30 15,9 3 30 16,9 3 36 56,9 3 35 59,4 | | |
| Rio de Janeiro. (2 ^e relâche.) | 22 55 25 | 45 38 23 | | | | | | |

§ III. — *Expériences de la déclinaison magnétique, faites en mer.*

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VISEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|-----------------|-------------------------|---------------------|--------------|---------------------|-----------|--|----------------------|--|-------------------------|---------------------------|------------|---|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- | NOMBRE | MÉTHODE | PARTIE | | | DÉCLINAISON conclue. | POSITION géographique. | | |
| | | | | | VATUR. | d'expé- riences. | employée. | où se faisait l'ex- périence. | | | | Latitude. | Longitude | |
| Rade de Sainte-Croix (île Ténériffe). | N. 28°28' | O. P. 18°36' | 1817. Octobr. 25. | 6 ^h 0's. | Dp. | 12 | Azimut. | Gaillard d'arr. | Nord. | N. O. 19°44'43" | N. O. | N. O. P. | | |
| Traversée de Sainte-Croix (île Ténériffe), à Rio de Janeiro. | 20 37 | 26 16 | Novem. | 1°. | 8 52 m. | Lc. | 4 | Azimut. | Idem. | S. 30°.O. 15 21 30 | | | | On a employé, pour cette observation, l'azimut du bord oriental de la lune. |
| | 18 30 | 27 38 | | 2. | 8 30 m. | Dp. | 10 | Azimut. | Idem. | S. 45. O. 17 22 28 | | | | |
| | 14 37 | 27 46 | | 4. | 10 28 m. | Lc. | 10 | Azimut. | Idem. | S. 12. E. 13 10 30 | | | | |
| | 12 57 | 27 9 | | 5. | 8 43 m. | Dp. | 3 | Azimut. | Idem. | S. 15. E. 13 41 28 | | | | |
| | 10 54 | 25 55 | | 6. | 8 30 m. | Ld. | 10 | Azimut. | Idem. | S. 24. E. 13 22 20 | | | | |
| | 7 18 | 24 57 | | 8. | 3 51 s. | Dp. | 2 | Azimut. | Idem. | S. 22. O. 10 58 50 | | | | |
| | 5 24 | 24 39 | | 11. | 7 0 m. | Dp. | 5 | Azimut. | Idem. | Sud. 8 5 16 | | | | |
| | 3 20 | 26 55 | | 15. | 8 0 m. | Ld. | 6 | Azimut. | Idem. | S. 46. E. 10 27 12 | | | | |
| | 2 4 | 28 3 | | 16. | 8 5 m. | Lc. | 6 | Azimut. | Idem. | S. 41. O. 12 37 0 | | | | |
| | 1 7 | 29 23 | | 17. | 7 45 m. | Dp. | 5 | Azimut. | Idem. | S. 34. O. 10 14 36 | | | | |
| | 1 9 | 30 28 | | 20. | 7 48 m. | | 5 | Azimut. | Idem. | Sud. 9 27 16 | | | | |
| | S. | | | | | | | | | | | | | |
| | 2 31 | 32 25 | | 22. | 10 16 m. | Lc. | 8 | Azimut. | Idem. | S. 23. O. 9 48 0 | | | | |
| | 3 39 | 33 40 | | 23. | 8 9 m. | Dp. | 3 | Azimut. | Idem. | S. 17. O. 5 46 40 | | | | |
| | 6 43 | 34 37 | | 25. | 8 3 m. | Lc. | 8 | Azimut. | Idem. | S. 9. E. 6 28 0 | | | | |
| | 7 8 | 34 41 | | | 4 16 s. | | 7 | Azimut. | Idem. | S. 3. E. 3 40 0 | | | | |
| | 7 13 | 34 43 | | | 6 0 s. | | 1 | Amplit. | Idem. | Sud. 3 27 0 | | | | |
| | 8 13 | 34 44 | | 26. | 6 37 m. | Dp. | 5 | Azimut. | Idem. | S. 7. E. 7 27 35 | | | | |
| | 9 9 | 34 40 | | | 4 28 s. | | 3 | Azimut. | Idem. | S. 22. E. 6 50 10 | | | | |
| | 12 41 | 33 15 | | 28. | 8 22 m. | Lc. | 5 | Azimut. | Idem. | S. 24. E. 7 51 0 | | | | |
| | 13 19 | 32 58 | | | 4 33 s. | | 10 | Azimut. | Idem. | S. 23. E. 8 26 0 | | | | |
| | 15 29 | 32 33 | | 29. | 3 30 s. | Dp. | 6 | Azimut. | Idem. | S. 11. E. 6 36 10 | | | | |
| | 18 44 | 35 15 | Décem. | 1°. | 6 30 m. | Lc. | # | Azimut. | Idem. | S. 45. O. 2 3 0 | | | | |
| | 18 48 | 35 20 | | | 8 0 m. | | 6 | Azimut. | Idem. | S. 39. O. 3 29 40 | | | | |
| | 19 19 | 35 53 | | | 6 30 s. | | 1 | Amplit. | Idem. | S. 56. O. 3 30 50 | | | | |
| | 20 0 | 36 56 | | 2. | 7 30 m. | Dp. | 3 | Azimut. | Idem. | O. 34. S. 0 57 40 | | | | |
| | 22 43 | 42 33 | | 5. | 7 42 m. | | 7 | Azimut. | Idem. | O. 34. S. 1 7 50 | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|---|---------------------------|-----------|-----------------|-----------------------------------|-------------------------|-------------------------------|----------------------|--|--|---------------------------|-----------|------------|---------|--|
| | | | DATE. | HEURE. | OBSER- VATI- ONS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | POSITION GÉOGRAPHIQUE. | | | | |
| | Latitude | Longitude | | | | | | | | Longitude | Latitude | | | |
| Traversée du Cap de Bonne- Espérance à l'Île- de-France. | Sud. | E. P. | 1818. Avril. | 6 ^h 30' ^m . | G. | 1 | Amplit. | Gaillard d'arrière. <i>Idem.</i> | S. 22° O. | 26°31' 0" | 28°13'10" | 35° 26' | 13° 54' | |
| | 35°23' | 13°55' | 7. | 8 0 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | S. 22. O. | 29 55 20 | | | | |
| | 35 30 | 13 53 | 7. | 4 0 s. | Lm. | 4 | Azimut. | <i>Idem.</i> | O. 40. S. | 25 42 31 | 25 52 15 | 37 10 | 13 31 | |
| | 37 6 | 13 34 | 7. | 5 30 s. | G. | 1 | Amplit. | <i>Idem.</i> | O. 40. S. | 26 2 0 | | | | |
| | 37 14 | 13 28 | 7. | 5 30 s. | Lc. | 1 | Amplit. | <i>Idem.</i> | S. 11. O. | 28 7 10 | | | | |
| | 39 58 | 12 22 | 9. | 5 30 s. | Dp. | 1 | Azimut. | <i>Idem.</i> | E. 11. N. | 27 53 24 | | | | |
| | 41 27 | 12 42 | 10. | 5 30 s. | Lm. | 4 | Azimut. | <i>Idem.</i> | E. 22. S. | 26 53 4 | | | | |
| | 41 4 | 17 32 | 13. | 7 45 m. | Lm. | 2 | Azimut. | <i>Idem.</i> | E. 22. S. | 29 49 40 | 28 41 35 | 41 4 | 17 33 | |
| | 41 4 | 17 34 | 13. | 8 0 m. | R. | 4 | Azimut. | <i>Idem.</i> | E. 22. S. | 29 22 0 | | | | |
| | 41 0 | 18 54 | 13. | 4 0 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 33 46 2 | | | | |
| | 40 58 | 21 20 | 14. | 6 30 m. | Lc. | 1 | Amplit. | <i>Idem.</i> | E. 22. S. | 36 13 0 | | | | |
| | 40 58 | 21 37 | 14. | 8 30 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 34 9 32 | 35 24 57 | 40 58 | 21 33 | |
| | 40 58 | 21 41 | 14. | 9 0 m. | Lc. | 4 | Azimut. | <i>Idem.</i> | E. 22. S. | 35 52 20 | | | | |
| | 40 57 | 23 51 | 15. | 1 0 m. | Dp. | 4 | Azimut. | <i>Idem.</i> | E. 22. S. | 34 12 10 | | | | |
| | 41 39 | 31 49 | 18. | 8 0 m. | R. | 4 | Azimut. | <i>Idem.</i> | E. 11. S. | 31 24 0 | | | | |
| | 41 21 | 33 8 | 18. | 5 30 s. | R. | 1 | Amplit. | <i>Idem.</i> | Est. | 32 30 0 | | | | |
| | 40 28 | 35 21 | 19. | 9 0 m. | Lm. | 5 | Azimut. | <i>Idem.</i> | Est. | 32 28 27 | 31 41 1 | 40 27 | 35 23 | |
| | 40 26 | 35 25 | 19. | 9 30 m. | Lc. | 3 | Azimut. | <i>Idem.</i> | Est. | 30 53 36 | | | | |
| | 40 15 | 35 59 | 19. | 3 30 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | Est. | 32 27 20 | 33 20 40 | 40 14 | 35 59 | |
| | 40 14 | 36 0 | 19. | 4 0 s. | Lc. | 4 | Azimut. | <i>Idem.</i> | Est. | 34 14 1 | | | | |
| | 40 6 | 37 44 | 20. | 6 30 m. | Dp. | 1 | Amplit. | <i>Idem.</i> | E. 11. S. | 36 45 0 | 36 44 10 | 40 3 | 37 49 | |
| | 40 1 | 37 54 | 20. | 7 47 m. | Dp. | 7 | Azimut. | <i>Idem.</i> | E. 11. S. | 36 43 20 | | | | |
| | 38 13 | 40 5 | 21. | 7 45 m. | Lm. | 4 | Azimut. | <i>Idem.</i> | E. 11. N. | 33 28 24 | | | | |
| | 38 13 | 40 5 | 21. | 7 50 m. | Lm. | 4 | Azimut. | <i>Idem.</i> | E. 11. N. | 32 14 19 | 33 10 21 | 38 13 | 40 5 | |
| | 38 12 | 40 6 | 21. | 8 0 m. | Fb. | 4 | Azimut. | <i>Idem.</i> | E. 11. N. | 33 48 20 | | | | |
| | 35 8 | 42 28 | 24. | 6 30 m. | Lc. | 1 | Amplit. | <i>Idem.</i> | S. 16. O. | 34 10 0 | 33 56 20 | 35 12 | 42 30 | |
| | 35 17 | 42 32 | 24. | 9 40 m. | Lc. | 1 | Azimut. | <i>Idem.</i> | Sud. | 33 42 40 | | | | |
| | 35 38 | 42 50 | 24. | 4 0 s. | Lm. | 4 | Azimut. | <i>Idem.</i> | S. 11. E. | 35 31 45 | | | | |
| | 36 20 | 43 47 | 25. | 6 45 m. | Lm. | 1 | Amplit. | <i>Idem.</i> | E. 39. S. | 34 51 0 | 32 58 25 | 36 20 | 43 48 | |
| | 36 21 | 43 50 | 25. | 7 22 m. | Dp. | 6 | Azimut. | <i>Idem.</i> | E. 39. S. | 31 5 50 | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|--|---------------------------|-----------|-----------------|-------------------------|----------------------|-------------------------------|----------------------|--|--|---------------------------|-------------|-------------|---------|---------|
| | Latitude | Longitude | DATE. | HEURE. VA- TEURS. | OBSER- VATIONS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | DÉCLINAISON conclue. | POSITION géographique. | | | | |
| | | | | | | | | | Latitudes. | Longitudes. | | | | |
| <i>Suite.</i> <i>Traversée du Cap de Bonne-Espérance à l'Ile-de-France.</i> | S. | E. P. | 1818. Avril. | 26. | 7 ^h 30'm. | Fb. | 4 | Azimut. | Gaillard d'arr. <i>Idem.</i> | E. 11° S. | 31° 18' 45" | N. O. | S. | E. P. |
| | 36° 38' | 46° 14' | | 26. | 8 0 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 11. S. | 30 14 0 | 30° 46' 22" | 36° 38' | 46° 14' |
| | 36 38 | 46 14 | | | | | | | | | | | | |
| | 36 39 | 46 19 | 26. | 3 55 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 31 29 32 | 30 45 57 | 36 39 | 46 19 | |
| | 36 39 | 46 19 | 26. | 4 0 s. | Fb. | 4 | Azimut. | <i>Idem.</i> | E. 22. S. | 30 2 22 | | | | |
| | 36 43 | 47 32 | 27. | 6 45 m. | Lm. | 1 | Amplit. | <i>Idem.</i> | E. 34. S. | 30 10 15 | 29 31 12 | 36 43 | 47 37 | |
| | 36 44 | 47 42 | 27. | 7 45 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 34. S. | 28 52 10 | | | | |
| | 36 29 | 51 15 | 28. | 7 30 m. | R. | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 27 40 0 | 28 7 30 | 36 28 | 51 15 | |
| | 36 28 | 51 16 | 28. | 7 40 m. | R. | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 28 35 0 | | | | |
| | 36 18 | 52 10 | 28. | 3 30 s. | R. | 6 | Azimut. | <i>Idem.</i> | Est. | 28 28 0 | | | | |
| | 36 18 | 52 10 | 28. | 3 30 s. | R. | 6 | Azimut. | <i>Idem.</i> | Est. | 27 18 0 | 28 12 20 | 36 17 | 52 12 | |
| | 36 16 | 52 15 | 28. | 4 0 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | Est. | 28 51 0 | | | | |
| | 34 21 | 55 17 | 29. | 3 30 s. | Lc. | 4 | Azimut. | <i>Idem.</i> | N. 27. E. | 24 26 16 | 25 8 8 | 34 19 | 55 17 | |
| | 34 17 | 55 17 | 29. | 4 0 s. | Lm. | 5 | Azimut. | <i>Idem.</i> | N. 27. E. | 25 50 0 | | | | |
| | 32 21 | 55 22 | 30. Mai. | 8 12 m. | Dp. | 5 | Azimut. | <i>Idem.</i> | N. 22. E. | 20 14 4 | | | | |
| | 29 47 | 55 58 | 1. | 8 0 m. | Lm. | 3 | Azimut. | <i>Idem.</i> | N. 22. E. | 17 14 14 | 18 30 27 | 29 39 | 56 1 | |
| | 29 32 | 56 3 | 1. | 10 30 m. | Fb. | 4 | Azimut. | <i>Idem.</i> | N. 34. E. | 19 46 40 | | | | |
| | 29 5 | 56 6 | 1. | 3 0 s. | Fb. | 4 | Azimut. | <i>Idem.</i> | N. 34. E. | 19 10 45 | 18 19 19 | 29 2 | 56 7 | |
| | 29 0 | 56 8 | 1. | 3 45 s. | Lm. | 5 | Azimut. | <i>Idem.</i> | N. 34. E. | 17 27 54 | | | | |
| | 27 11 | 56 31 | 2. | 8 30 m. | G. | 4 | Azimut. | <i>Idem.</i> | N. 34. E. | 18 28 40 | | | | |
| | 26 16 | 56 48 | 2. | 4 0 s. | G. | 4 | Azimut. | <i>Idem.</i> | N. 34. E. | 19 10 20 | | | | |
| | 24 34 | 57 20 | 3. | 7 50 m. | R. | 6 | Azimut. | <i>Idem.</i> | E. 34. N. | 18 11 0 | | | | |
| | 24 33 | 57 21 | 3. | 8 0 m. | R. | 6 | Azimut. | <i>Idem.</i> | E. 34. N. | 20 18 0 | 19 39 23 | 24 31 | 57 21 | |
| | 24 26 | 57 23 | 3. | 9 0 m. | Lm. | 7 | Azimut. | <i>Idem.</i> | E. 34. N. | 20 29 10 | | | | |
| | 22 10 | 56 27 | 4. | 7 40 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 14 12 4 | 14 12 29 | 22 10 | 56 27 | |
| | 22 10 | 56 27 | 4. | 7 45 m. | Lc. | 5 | Azimut. | <i>Idem.</i> | N. 11. E. | 14 12 54 | | | | |
| | 21 12 | 56 4 | 4. | 4 0 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | N. 11. O. | 13 4 10 | | | | |
| | 21 12 | 56 4 | 4. | 4 0 s. | Lc. | 4 | Azimut. | <i>Idem.</i> | N. 11. O. | 15 10 20 | 13 56 57 | 21 8 | 56 4 | |
| | 21 0 | 56 4 | 4. | 5 30 s. | Lc. | 1 | Amplit. | <i>Idem.</i> | N. 16. E. | 13 36 22 | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION éOGRAPIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | | REMARQUES. | | | |
|--|-------------------------|-----------------|----------------------|---------------------|-------------------|-------------------------------|----------------------|------------------------|--|-------------------------------|---------------------------|---------|------------|--|--|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATRUS. | NOMBRE d'expé- riences. | MÉTHODE employée. | | | DÉCLINAIS- SON concise. | POSITION géographique. | | | | | |
| | | | | | | | | | | Latitude | Longitude | | | | | |
| Traversée de l'île Bourbon à la baie des Biens-Marins. | Sud. 21° 31' | E. P. 52° 4' | 1818. Août. 3. | 3 ^h 0's. | Fb. | 4 | Azimut. | Gaillard d'arr. | S. 34° O. 15° 5' 40" | N. O. | N. O. | S. | E. P. | | | |
| | 22 44 | 50 42 | 4. | 5 30 s. | G. | 4 | Azimut. | <i>Idem.</i> | E. 22. S. 20 22 0 | | | | | | | |
| | 22 47 | 50 50 | 5. | 8 0 m. | Lm. | 4 | Azimut. | <i>Idem.</i> | S. 45. O. 18 32 21 | | 17° 8' 0" | 22° 47' | 50° 49' | | | |
| | 22 47 | 50 49 | 5. | 8 15 m. | R. | 4 | Azimut. | <i>Idem.</i> | S. 40. O. 15 43 40 | | | | | | | |
| | 23 9 | 50 24 | 5. | 3 30 s. | R. | 6 | Azimut. | <i>Idem.</i> | S. 45. O. 14 48 30 | | | | | | | |
| | 25 26 | 49 50 | 8. | 3 30 s. | Fb. | 4 | Azimut. | <i>Idem.</i> | S. 34. O. 18 55 50 | | 18 7 46 | 25 26 | 49 50 | | | |
| | 25 26 | 49 50 | 8. | 3 30 s. | Lm. | 5 | Azimut. | <i>Idem.</i> | S. 34. O. 17 19 42 | | | | | | | |
| | 26 32 | 49 17 | 9. | 9 0 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 34. O. 17 4 18 | | | | | | | |
| | 26 55 | 49 5 | 9. | 4 0 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | S. 30. O. 19 13 34 | | | | | | | |
| | 27 1 | 49 2 | 9. | 5 30 s. | G. | 5 | Azimut. | <i>Idem.</i> | S. 28. O. 21 1 0 | | 20 7 17 | 26 58 | 49 3 | | | |
| | 27 32 | 48 55 | 10. | 8 0 m. | Lm. | 8 | Azimut. | <i>Idem.</i> | O. 22. S. 17 7 21 | | | | | | | |
| | 27 32 | 48 55 | 10. | 8 15 m. | R. | 4 | Azimut. | <i>Idem.</i> | S. 45. O. 22 47 30 | | 20 3 57 | 27 32 | 48 55 | | | |
| | 27 32 | 48 55 | 10. | 8 15 m. | R. | 6 | Azimut. | <i>Idem.</i> | S. 45. O. 20 17 0 | | | | | | | |
| | 27 58 | 48 42 | 10. | 4 0 s. | Lm. | 12 | Azimut. | <i>Idem.</i> | S. 34. O. 18 46 55 | | 18 8 27 | 28 1 | 48 41 | | | |
| | 28 4 | 48 41 | 10. | 5 30 s. | R. | 1 | Amplit. | <i>Idem.</i> | S. 28. O. 17 30 0 | | | | | | | |
| | 28 55 | 48 45 | 11. | 9 0 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 34. O. 22 29 24 | | 23 6 26 | 28 56 | 48 45 | | | |
| | 28 58 | 48 46 | 11. | 9 45 m. | Lc. | 3 | Azimut. | <i>Idem.</i> | S. 22. E. 23 43 29 | | | | | | | |
| | 29 14 | 49 0 | 11. | 4 0 s. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 16. E. 23 44 0 | | | | | | | |
| | 29 19 | 49 4 | 11. | 5 30 s. | Lc. | 3 | Amplit. | <i>Idem.</i> | S. 5. E. 23 42 30 | | 23 43 15 | 29 16 | 49 2 | | | |
| | 29 54 | 49 30 | 12. | 7 0 m. | Dp. | 6 | Azimut. | <i>Idem.</i> | S. 22. E. 25 27 40 | | | | | | | |
| | 29 54 | 49 31 | 12. | 7 30 m. | Dp. | 4 | Azimut. | <i>Idem.</i> | S. 22. E. 25 32 40 | | 24 38 19 | 29 54 | 49 31 | | | |
| | 29 55 | 49 32 | 12. | 7 50 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 22. E. 22 54 38 | | | | | | | |
| | 30 1 | 49 41 | 12. | 3 34 s. | Dp. | 6 | Azimut. | <i>Idem.</i> | S. 22. E. 25 32 0 | | 25 28 42 | 30 1 | 49 41 | | | |
| | 30 1 | 49 42 | 12. | 4 0 s. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 22. E. 25 25 24 | | | | | | | |
| | 30 1 | 49 46 | 13. | 6 35 m. | Fb. | 1 | Amplit. | <i>Idem.</i> | S. 22. E. 24 37 55 | | | | | | | |
| | 30 1 | 49 46 | 13. | 6 59 m. | Fb. | 6 | Azimut. | <i>Idem.</i> | S. 22. E. 24 39 24 | | 24 3 22 | 30 1 | 49 46 | | | |
| | 30 2 | 49 47 | 13. | 8 15 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 45. E. 22 52 48 | | | | | | | |
| | 30 5 | 49 51 | 13. | 3'30 s. | Fb. | 6 | Azimut. | <i>Idem.</i> | S. 45. E. 25 40 0 | | | | | | | |
| | 30 5 | 49 51 | 13. | 4 15 s. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 45. E. 22 16 40 | | 24 28 13 | 30 5 | 49 51 | | | |
| | 30 6 | 49 51 | 13. | 5 45 s. | Fb. | 1 | Amplit. | <i>Idem.</i> | S. 45. E. 25 28 0 | | | | | | | |

VOYAGE AUTOUR DU MONDE.

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | | | |
|--|---------------------------|-----------|----------------|--------|--------------------------|------------------------------|----------------------|------------------------|--|------------------------------------|---------------------------|------------|-------|---------|--------|--|
| | | | DATE. | HEURE. | OBSER- VATI- EURS. | NOBRE d'expé- riences. | MÉTHODE employée. | | | DÉCLENAI- SON comme- lée. | POSITION géographique. | | | | | |
| | Latitude | Longitude | | | | | | | | Latitude | Longitude | | | | | |
| Suite. Traversée de l'île Bourbon à la baie des Chiens-Marins. | Sud. | E. P. | 1818. Août. | 14. | 6 ^h 35' m. | Lm. | 1 | Amplit. | Gaillard d'arr. | S. 45° E. | 25°21'28" | N.O. | N.O. | S. | E. P. | |
| | 30°18' | 50° 4' | | 14. | 8 0 m. | Lm. | 6 | Azimut. | Idem. | S. 45. E. | 24°44'14" | | | 30° 20' | 50° 8' | |
| | 30 22 | 50 13 | 14. | | | | | | | | | | | | | |
| | 30 34 | 50 52 | 14. | | 4 0 s. | Lm. | 6 | Azimut. | Idem. | S. 45. E. | 25 36 12 | | | | | |
| | 31 8 | 53 2 | 15. | | 4 0 s. | Lm. | 6 | Azimut. | Idem. | S. 45. E. | 28 34 12 | | | | | |
| | 31 45 | 54 58 | 16. | | 6 35 m. | Lc. | 1 | Amplit. | Idem. | S. 45. E. | 26 29 30 | | | | | |
| | 31 47 | 55 3 | 16. | | 7 15 m. | Lc. | 6 | Azimut. | Idem. | S. 45. E. | 24 42 46 | 25 19 57 | 31 48 | 55 6 | | |
| | 31 51 | 55 16 | 16. | | 9 0 m. | Lm. | 6 | Azimut. | Idem. | S. 45. E. | 24 47 36 | | | | | |
| | 32 12 | 56 11 | 16. | | 3 50 s. | Lc. | 6 | Azimut. | Idem. | S. 45. E. | 30 1 32 | | | | | |
| | 32 12 | 56 13 | 16. | | 4 0 s. | Lm. | 6 | Azimut. | Idem. | S. 45. E. | 30 4 42 | 30 3 7 | 32 12 | 56 12 | | |
| | 32 47 | 58 27 | 17. | | 6 25 m. | Lm. | 1 | Amplit. | Idem. | E. 34. S. | 25 1 0 | | | | | |
| | 32 48 | 53 33 | 17. | | 7 0 m. | Dp. | 4 | Azimut. | Idem. | E. 34. S. | 26 28 10 | | | | | |
| | 32 48 | 58 33 | 17. | | 7 0 m. | Dp. | 6 | Azimut. | Idem. | E. 34. S. | 26 2 20 | 25 24 34 | 32 48 | 58 33 | | |
| | 32 50 | 58 41 | 17. | | 8 0 m. | Lm. | 10 | Azimut. | Idem. | E. 34. S. | 24 6 48 | | | | | |
| | 33 0 | 59 38 | 17. | | 3 30 s. | Dp. | 6 | Azimut. | Idem. | E. 34. S. | 27 12 40 | | | | | |
| | 33 1 | 59 42 | 17. | | 4 0 s. | Lm. | 6 | Azimut. | Idem. | E. 34. S. | 23 32 32 | 25 22 36 | 33 0 | 59 40 | | |
| | 33 21 | 61 52 | 18. | | 6 38 m. | Lm. | 1 | Amplit. | Idem. | E. 34. S. | 23 11 9 | | | | | |
| | 33 27 | 62 24 | 18. | | 9 40 m. | Fb. | 1 | Azimut. | Idem. | E. 34. S. | 22 56 0 | 24 13 20 | 33 25 | 62 16 | | |
| | 33 27 | 62 24 | 18. | | 9 40 m. | Fb. | 1 | Azimut. | Idem. | E. 34. E. | 25 24 50 | | | | | |
| | 33 27 | 62 24 | 18. | | 9 40 m. | Fb. | 1 | Azimut. | Idem. | E. 34. S. | 52 21 20 | | | | | |
| | 33 40 | 63 30 | 18. | | 3 40 s. | Lm. | 5 | Azimut. | Idem. | E. 34. S. | 24 38 30 | 23 59 45 | 33 40 | 63 31 | | |
| | 33 41 | 63 32 | 18. | | 3 50 s. | Fb. | 6 | Azimut. | Idem. | E. 34. S. | 23 21 0 | | | | | |
| | 33 43 | 65 54 | 19. | | 6 10 m. | G. | 2 | Amplit. | Idem. | E. 11. S. | 20 13 0 | | | | | |
| | 33 19 | 68 56 | 20. | | 9 0 m. | Lm. | 6 | Azimut. | Idem. | Est. | 17 55 36 | 17 50 48 | 33 17 | 69 4 | | |
| | 33 16 | 69 12 | 20. | | 11 0 m. | R. | 6 | Azimut. | Idem. | Est. | 17 46 0 | | | | | |
| | 31 21 | 73 16 | 21. | | 4 0 s. | Lm. | 6 | Azimut. | Idem. | Est. | 20 33 0 | | | | | |
| | 30 27 | 78 35 | 23. | | 3 20 s. | Fb. | 4 | Azimut. | Idem. | E. 22. S. | 16 16 40 | | | | | |
| | 30 22 | 81 3 | 24. | | 4 0 s. | Lm. | 6 | Azimut. | Idem. | E. 22. S. | 14 50 22 | 15 25 53 | 30 22 | 81 3 | | |
| | 30 22 | 81 3 | 24. | | 4 0 s. | G. | 4 | Azimut. | Idem. | E. 22. S. | 16 1 24 | | | | | |
| | 30 7 | 83 25 | 26. | | 6 5 m. | Lb. | 1 | Amplit. | Idem. | E. 22. S. | 12 55 30 | | | | | |
| | 30 6 | 83 29 | 26. | | 8 0 m. | Lm. | 6 | Azimut. | Idem. | E. 22. S. | 12 59 40 | 12 21 19 | 30 6 | 83 28 | | |
| | 30 6 | 83 30 | 26. | | 8 5 m. | Lb. | 6 | Azimut. | Idem. | E. 22. S. | 11 8 46 | | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|--|---------------|-----------|----------------|---------|-----------------------|-------------------------------|----------------------|--|------------------------|--|-------------------------|---------------------------|------------|--|--|--|
| | GÉOGRAPHIQUE. | | DATE. | HEURE. | OBSER- VATI- ON | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | DÉCLINAISON conclue. | POSITION géographique. | | | | |
| | Latitude | Longitude | | | | | | | | | | Latitude | Longitude | | | |
| Suite. | 30° 7' | E. P. | 1818. Août. | 26. | 3 ^h 0's. | Lb. | 3 | Azimut. | Gaillard | E. 22° S. | 13° 11' 0" | N. O. | S. E. P. | | | |
| Traversée de l'île Bourbon à la baie des Mâles-Marins. | 30° 7 | 84° 5 | 26. | 4 0 a. | Lm. | 6 | Azimut. | Idem. | E. 22. S. | 14 25 56 | 13° 48' 28" | 30° 7' | 84° 2' | | | |
| | 30 11 | 84 57 | 27. | 6 15 m. | Lm. | 1 | Amplit. | Idem. | E. 22. S. | 11 2 9 | | | | | | |
| | 30 12 | 85 6 | 27. | 8 0 m. | Lm. | 6 | Azimut. | Idem. | E. 22. S. | 11 50 13 | 11 12 14 | 30 12 | 85 4 | | | |
| | 30 12 | 85 8 | 27. | 8 20 m. | Dp. | 6 | Azimut. | Idem. | E. 22. S. | 10 44 20 | | | | | | |
| | 30 20 | 86 14 | 27. | 4 0 s. | Lm. | 12 | Azimut. | Idem. | E. 22. S. | 7 24 20 | | | | | | |
| | 30 33 | 88 3 | 28. | 7 15 m. | Fb. | 6 | Azimut. | Idem. | E. 22. S. | 11 2 30 | | | | | | |
| | 30 34 | 88 12 | 28. | 8 50 m. | Lm. | 6 | Azimut. | Idem. | E. 22. S. | 9 58 58 | 10 30 44 | 30 33 | 88 7 | | | |
| | 30 42 | 90 24 | 29. | 4 0 s. | Lm. | 3 | Azimut. | Idem. | E. 22. S. | 14 8 56 | | | | | | |
| | 30 41 | 92 45 | Sept. | 1. | 6 20 m. | Dp. | 1 | Amplit. | Idem. | E. 34. S. | 10 43 0 | | | | | |
| | 30 45 | 92 54 | 1. | 8 0 m. | Dp. | 6 | Azimut. | Idem. | E. 34. S. | 9 34 20 | 10 22 46 | 30 44 | 92 51 | | | |
| | 30 45 | 92 55 | 1. | 8 9 m. | Lm. | 5 | Azimut. | Idem. | E. 34. S. | 10 50 58 | | | | | | |
| | 31 35 | 95 4 | 2. | 8 0 m. | Lm. | 5 | Azimut. | Idem. | E. 34. S. | 12 48 52 | 12 57 51 | 31 35 | 95 4 | | | |
| | 31 35 | 95 4 | 2. | 8 0 m. | Fb. | 6 | Azimut. | Idem. | E. 34. S. | 13 6 50 | | | | | | |
| | 31 36 | 96 8 | 3. | 6 10 m. | G. | 6 | Amplit. | Idem. | E. 32. S. | 16 55 0 | | | | | | |
| | 31 36 | 96 18 | 3. | 9 50 m. | Lm. | 5 | Azimut. | Idem. | E. 34. S. | 13 29 37 | 15 12 18 | 31 36 | 96 13 | | | |
| | 31 39 | 96 41 | 3. | 4 0 s. | Lm. | 4 | Azimut. | Idem. | E. 22. S. | 17 7 5 | 16 56 50 | 31 39 | 96 41 | | | |
| | 31 39 | 96 41 | 3. | 4 0 s. | G. | 4 | Azimut. | Idem. | E. 22. S. | 16 46 35 | | | | | | |
| | 31 47 | 97 48 | 4. | 6 8 m. | Lm. | 1 | Amplit. | Idem. | E. 34. S. | 13 54 22 | | | | | | |
| | 31 47 | 97 51 | 4. | 8 0 m. | Lm. | 6 | Azimut. | Idem. | E. 34. S. | 10 28 40 | 12 11 31 | 31 47 | 97 49 | | | |
| | 31 48 | 98 23 | 5. | 6 12 m. | Lc. | 5 | Amplit. | Idem. | E. 34. S. | 15 0 55 | | | | | | |
| | 31 48 | 98 25 | 5. | 7 15 m. | Lc. | 4 | Azimut. | Idem. | E. 34. S. | 15 58 36 | 15 3 38 | 31 48 | 98 24 | | | |
| | 31 48 | 98 25 | 5. | 8 0 m. | Lm. | 6 | Azimut. | Idem. | E. 34. S. | 14 11 24 | | | | | | |
| | 31 47 | 98 32 | 5. | 3 0 s. | Lc. | 4 | Azimut. | Idem. | E. 34. S. | 15 25 32 | 14 38 29 | 31 47 | 98 34 | | | |
| | 31 47 | 98 37 | 5. | 4 15 s. | Lm. | 8 | Azimut. | Idem. | E. 34. S. | 13 51 26 | | | | | | |
| | 31 56 | 99 24 | 6. | 8 0 m. | Lm. | 6 | Azimut. | Idem. | E. 34. S. | 12 50 0 | | | | | | |
| | 31 56 | 99 24 | 6. | 8 0 m. | Dp. | 7 | Azimut. | Idem. | E. 34. S. | 13 29 48 | 13 39 54 | 31 56 | 99 24 | | | |
| | 32 3 | 99 52 | 6. | 4 0 s. | Lm. | 5 | Azimut. | Idem. | E. 34. S. | 11 39 34 | | | | | | |
| | 32 10 | 101 41 | 7. | 8 0 m. | Fb. | 6 | Azimut. | Idem. | E. 11. S. | 12 44 40 | | | | | | |
| | 32 5 | 102 43 | 7. | 4 0 s. | Lm. | 6 | Azimut. | Idem. | E. 11. S. | 11 50 30 | | | | | | |
| | 29 24 | 109 43 | 10. | 4 0 s. | Lm. | 4 | Azimut. | Idem. | E. 34. N. | 5 10 59 | | | | | | |
| | 27 41 | 111 25 | 11. | 4 0 s. | Lm. | 7 | Azimut. | Idem. | E. 34. N. | 3 23 17 | | | | | | |

| PARAGE OÙ SE TROUVAIT le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|------------------|-----------------------|----------------------|-------------------------|-------------------------------|-------------------------|--|--|---------------------------|--------------|------------------|-----------------------|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATI- ONS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | S. | E. P. | |
| | | | | | | | | DÉCLINAISON SON couche. | | POSITION géographique. | | | |
| Traversée de la baie des Chiens-Marins à Coupang. | S. 25°13' | E. P. 110°43' | 1818. Sept. 27. | 7 ^h 45'm. | Fb. | 6 | Azimut. <i>Idem.</i> | Gaillard d'arrière. <i>Idem.</i> | N. 11° E. | N. O. 5°30'50" | S. 24° 6' | E. P. 110°17' | Résultat trop faible. |
| | 24 59 | 110 56 | 27. | 3 45 s. | Fb. | 6 | Azimut. <i>Idem.</i> | N. 34. E. | 5 31 20 | | | | |
| | 24 12 | 110 16 | 28. | 6 0 m. | Lm. | 1 | Amplit. <i>Idem.</i> | N. 22. E. | 2 4 8 | | | | |
| | 24 4 | 110 18 | 28. | 8 0 m. | Lm. | 6 | Azimut. <i>Idem.</i> | N. 22. E. | 2 25 30 | 1°50'23" | 24° 6' | 110°17' | |
| | 24 1 | 110 18 | 28. | 8 40 m. | G. | 4 | Azimut. <i>Idem.</i> | N. 22. E. | 1 1 32 | | | | |
| | 23 19 | 110 26 | 28. | 5 30 s. | Lm. | 6 | Azimut. <i>Idem.</i> | N. 11. O. | 1 30 0 | | | | |
| | 23 17 | 110 26 | 28. | 6 0 s. | G. | 5 | Amplit. <i>Idem.</i> | N. 11. O. | 4 0 0 | 2 45 0 | 23 18 | 110 26 | |
| | 22 43 | 110 17 | 29. | 8 30 m. | Lm. | 6 | Azimut. <i>Idem.</i> | N. | 2 36 0 | | | | |
| | 21 11 | 110 41 | 30. | 5 53 m. | Lm. | 1 | Amplit. <i>Idem.</i> | N. 22. E. | 4 20 5 | | | | |
| | 21 10 | 110 41 | 30. | 6 0 m. | Lc. | 1 | Amplit. <i>Idem.</i> | N. 22. E. | 4 57 45 | | | | |
| | 20 53 | 110 46 | 30. | 8 20 m. | Lm.R. | 4 | Azimut. <i>Idem.</i> | N. 19. E. | 4 21 20 | 3 41 55 | 21 0 | 110 44 | Mauvais résultat. |
| | 20 53 | 110 46 | 30. | 8 20 m. | Lm.R. | 6 | Azimut. <i>Idem.</i> | N. 18. E. | 0 45 12 | | | | |
| | 20 53 | 110 46 | 30. | 8 20 m. | Lm. | 4 | Azimut. <i>Idem.</i> | N. 22. E. | 4 5 12 | | | | |
| | 20 15 | 111 15 | 30. | 3 30 s. | Lc. | 3 | Azimut. <i>Idem.</i> | E. 34. N. | 1 10 0 | 2 6 51 | 20 14 | 111 17 | Mauvais résultat. |
| | 20 13 | 111 20 | 30. | 4 10 s. | Lm. | 2 | Azimut. <i>Idem.</i> | E. 34. N. | 3 3 42 | | | | |
| | 19 2 | 112 38 | Octob. | 1. | 5 40 m. | Dp. | 2 | Amplit. <i>Idem.</i> | E. 34. N. | 4 51 0 | | | |
| | 18 58 | 112 43 | 1. | 6 30 m. | Dp. | 4 | Azimut. <i>Idem.</i> | E. 34. N. | 4 32 15 | | | | Résultat trop faible. |
| | 18 58 | 112 43 | 1. | 6 30 m. | Dp. | 4 | Azimut. <i>Idem.</i> | E. 34. N. | 4 30 15 | 3 49 30 | 18 57 | 112 44 | |
| | 18 50 | 112 51 | 1. | 8 15 m. | Lm. | 5 | Azimut. <i>Idem.</i> | E. 34. N. | 1 24 32 | | | | Résultat trop fort. |
| | 18 16 | 113 30 | 1. | 4 17 s. | Lm. | 5 | Azimut. <i>Idem.</i> | E. 34. N. | 5 59 43 | | | | |
| | 18 10 | 113 38 | 1. | 6 0 s. | Dp. | 1 | Amplit. <i>Idem.</i> | E. 34. N. | 4 49 0 | 5 24 21 | 18 13 | 113 34 | Mauvais résultat. |
| | 17 33 | 114 18 | 2. | 5 45 m. | Lm. | 1 | Amplit. <i>Idem.</i> | E. 34. N. | 5 46 52 | | | | |
| | 17 28 | 114 23 | 2. | 7 0 m. | Lm. | 4 | Azimut. <i>Idem.</i> | E. 54. N. | 2 47 35 | 4 20 54 | | | Mauvais résultat. |
| | 17 28 | 114 23 | 2. | 7 0 m. | Fb. | 6 | Azimut. <i>Idem.</i> | E. 34. N. | 4 28 16 | | | | |
| | 17 1 | 114 56 | 2. | 5 0 s. | Lm. | 5 | Azimut. <i>Idem.</i> | E. 34. N. | 2 43 8 | | | | Mauvais résultat. |
| | 16 5 | 116 3 | 3. | 5 0 s. | Lm. | 4 | Azimut. <i>Idem.</i> | E. 38. N. | 3 57 11 | | | | |
| | 16 5 | 116 3 | 3. | 5 0 s. | G. | 6 | Azimut. <i>Idem.</i> | E. 41. N. | 2 28 0 | 3 12 35 | 16 5 | 116 3 | Mauvais résultat. |
| | 15 41 | 116 23 | 4. | 5 50 m. | Lm. | 1 | Amplit. <i>Idem.</i> | E. 34. N. | 2 16 24 | | | | |
| | 15 38 | 116 23 | 4. | 6 57 m. | Lm. | 1 | Amplit. <i>Idem.</i> | E. 38. N. | 1 48 0 | 1 20 19 | 15 38 | 116 23 | Mauvais résultat. |
| | 15 36 | 116 24 | 4. | 8 20 m. | Lm. | 5 | Azimut. <i>Idem.</i> | E. 41. N. | 0 3 28 | | | | |

CHAP. VI.—DÉCLINAISONS DE L'AIGUILLE AIMANTÉE.

2

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|---|---------------------------|-----------|-----------------------|----------------------|-------------------|-------------------------------|----------------------|--|--|--------------------------------|---------------------------|------------|-------------------------|--|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATRUS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | DÉCLINAISON SON conclue. | POSITION géographique. | | | | |
| | | | | | | | | | | Latitude | Longitude | | | | |
| Sainte. Traversée de la baie des Chiens-Marins, à Coupang. | Sud. | E. P. | 1818. Octob. 5. | 5 ^h 50'm. | Lm. | 1 | Amplit. | Gaillard d'arr. <i>Idem.</i> | E. 34°.N. | N. O. | N. O. | S. | E. P. | | |
| | 14°46' | 117°25' | | 6 50 m. | Lc. | 6 | Azimut. | E. 34. N. | 0 28 6 | 1° 3'30" | | | | | |
| | 14 45 | 117 27 | | 7 10 m. | Lm. | 1 | Azimut. | <i>Idem.</i> | E. 38. N. | 1 40 0 | | | Résultat un peu faible. | | |
| | 14 46 | 116 23 | | 7 15 m. | | 5 | Azimut. | <i>Idem.</i> | E. 36. N. | 1 39 34 | | | | | |
| | 14 13 | 118 2 | | 4 55 s. | Lc. | 6 | Azimut. | <i>Idem.</i> | E. 36. N. | 2 10 42 | | | Résultat un peu fort. | | |
| | 13 29 | 118 49 | 6. | 6 0 m. | Dp. | 1 | Amplit. | <i>Idem.</i> | E. 39. N. | 0 55 0 | | | | | |
| | 13 27 | 118 51 | | 6 30 s. | | 5 | Azimut. | <i>Idem.</i> | E. 31. N. | 0 57 40 | 1 415 | 13 26 | 118 52 | | |
| | 13 21 | 118 57 | | 7 45 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 36. N. | 1 20 4 | | | | | |
| | 11 51 | 120 0 | 7. | 7 0 m. | | 5 | Azimut. | <i>Idem.</i> | N. 30. E. | 3 4 2 | | | | | |
| | 10 57 | 120 20 | | 6 0 s. | Fb. | 1 | Amplit. | <i>Idem.</i> | N. 25. O. | 0 18 0 | | | | | |
| | 10 15 | 120 23 | | 6 0 m. | G. | 2 | Amplit. | <i>Idem.</i> | N. 38. E. | 0 50 0 | | | N. E. | | |
| | 10 12 | 120 23 | 8. | 7 0 m. | | 4 | Azimut. | <i>Idem.</i> | N. 18. E. | 0 21 40 | 10 13 | 120 23 | | | |
| | 8 38 | 122 37 | 29. | 7 30 m. | Fb. | 6 | Azimut. | <i>Idem.</i> | N. 43. E. | 0 15 32 | 0 15 32 | | | | |
| Traversée de Coupang à Dillé. | | | Nov. 28. | | | | | | | | | | | | |
| Traversée de Dillé (île Timor) à Rawak. | 5 14 | 126 15 | | 5 55 m. | Lm. | 1 | Amplit. | <i>Idem.</i> | N. 45. E. | 0 46 33 | | | | | |
| | 5 7 | 126 19 | | 7 54 m. | Fb. | 4 | Azimut. | <i>Idem.</i> | N. 45. E. | 0 44 10 | 0 45 21 | 5 10 | 126 17 | | |
| | 4 38 | 126 27 | | 5 15 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | N. 34. O. | 0 39 0 | | | | | |
| | 4 37 | 126 28 | | 5 40 s. | Fb. | 6 | Azimut. | <i>Idem.</i> | N. 34. O. | 1 42 40 | 1 347 | 4 37 | 126 26 | | |
| | 4 35 | 126 25 | | 6 10 s. | | 1 | Amplit. | <i>Idem.</i> | N. 34. O. | 0 49 40 | | | | | |
| | 3 34 | 125 5 | 30. | 7 0 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | O. 11. N. | 1 44 0 | | | | | |
| | 3 34 | 125 5 | | 7 0 m. | R. | 6 | Azimut. | <i>Idem.</i> | O. 11. N. | 1 46 0 | 1 45 0 | 3 34 | 125 5 | | |
| | 3 28 | 125 11 | | 4 0 s. | | 6 | Azimut. | <i>Idem.</i> | N. 34. O. | 0 57 0 | | | Résultat trop faible. | | |
| | 3 14 | 125 6 | Déc. 1. | 5 30 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | N. 34. O. | 1 15 0 | | | | | |
| | 2 49 | 125 4 | | 3 40 s. | Fb. | 1 | Azimut. | <i>Idem.</i> | N. 27. E. | 1 0 20 | | | Résultat trop fort. | | |
| | 1 10 | 126 10 | 5. | 10 30 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | N. 11. O. | 2 16 40 | | | | | |
| | 0 55 | 126 18 | 6. | 7 30 m. | | 6 | Azimut. | <i>Idem.</i> | N. 11. O. | 0 52 44 | | | Résultat trop faible. | | |
| | 1 13 | 126 34 | 7. | 5 45 m. | | 1 | Amplit. | <i>Idem.</i> | E. 5. S. | 0 37 20 | | | Résultat trop fort. | | |
| | 1 27 | 126 41 | 8. | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | N. 22. O. | 3 58 14 | | | | | |
| | 1 27 | 126 41 | | 7 0 m. | Fb. | " | Azimut. | <i>Idem.</i> | N. 22. O. | 2 50 22 | 1 27 | 126 41 | | | |
| | 1 29 | 126 37 | 9. | 8 0 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | Nord. | 1 19 56 | | | | | |
| | 1 30 | 126 37 | | 8 20 m. | G. | 4 | Azimut. | <i>Idem.</i> | Nord. | 1 32 38 | 1 29 | 126 37 | | | |
| | 1 33 | 126 46 | | 5 15 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 1 0 34 | | | | | |

VOYAGE AUTOUR DU MONDE.

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | | | INDICATIONS. | | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|--|---------------------------|-----------|----------------------|----------------------|--------------------|-------------------------------|----------------------|--|-------------|-----------|----------------------------|--|-------------------|----------|---|--|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | DÉCLINAISON | | POSITIONS géographique. | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Suite. Traversée de Dillé (île Timor) à Rawak. | Sud. | E. P. | 1818. Déc. 10. | 7 ^h 0' m. | R. | 6 | Azimut. | Gaillard d'arr. | N. 22° O. | 1° 47' 0" | N. E. | N. E. | S. | E. P. | | | |
| | 1° 14' | 126° 44' | | | Lm. | 6 | Azimut. | Idem. | N. 11. O. | 1 13 6 | | 1° 30' 3" | 1° 14' | 126° 44' | | | |
| | 0 38 | 126 29 | 11. | 7 15 m. | | 6 | Azimut. | Idem. | N. 11. O. | 1 8 20 | | | | | Résultat trop fort. | | |
| | N. | | | | | | | | | | | | | | | | |
| | 0 2 | 126 33 | 12. | 7 30 m. | | 6 | Azimut. | Idem. | E. 22. N. | 2 16 0 | | | | | | | |
| Traversée de l'île Rawak à l'île Guam. | | | 1819. Janvier. | | | | | | | | | | N. | | | | |
| | 0 17 | 129 12 | 9. | 5 0 s. | Lm. | 6 | Azimut. | Gaillard d'arr. | Est. | 1 10 4 | | | | | Observation doutuse à cause de nuages. | | |
| | 0 45 | 129 11 | 10. | 5 15 s. | | 6 | Azimut. | Dunette | E. 11. S. | 0 35 6 | | | | | | | |
| | 0 38 | 129 13 | 11. | 6 0 m. | | 1 | Amplit. | G. d'arr. | N. 15. E. | 1 29 30 | | | | | | | |
| | 0 38 | 129 12 | | 7 0 m. | | 6 | Azimut. | Idem. | N. 15. E. | 2 39 54 | 2 | 4 42 | 0 38 | 129 12 | | | |
| | 0 41 | 129 19 | 12. | 8 0 m. | | 6 | Azimut. | Idem. | E. 22. N. | 3 57 12 | | | | | | | |
| | 1 19 | 129 42 | 13. | 8 0 m. | | 6 | Azimut. | Idem. | E. 34. N. | 3 32 50 | | | | | | | |
| | 1 31 | 129 46 | 14. | 7 0 m. | | 6 | Azimut. | Idem. | N. 22. O. | 2 12 10 | | | | | | | |
| | 1 32 | 129 58 | 15. | 7 30 m. | | 6 | Azimut. | Idem. | Nord. | 3 35 4 | | | | | | | |
| | 1 53 | 129 50 | 16. | 7 15 m. | | 6 | Azimut. | Idem. | E. 22. E. | 3 6 16 | | | | | Temps calme; houle très- forte. | | |
| | 2 3 | 130 40 | 17. | 8 0 m. | | 6 | Azimut. | Idem. | Est. | 1 37 38 | | | | | Mer houleuse. | | |
| | 1 58 | 131 51 | 18. | 7 30 m. | | 8 | Azimut. | Idem. | Est. | 1 47 50 | | | | | | | |
| | 1 53 | 132 54 | 19. | 4 10 s. | | 8 | Azimut. | Idem. | N. E. | 0 40 32 | | | | | | | |
| | 1 50 | 132 56 | | 5 55 s. | | | Amplit. | Idem. | N. E. | 2 0 50 | 1 | 20 41 | 1 51 | 132 55 | | | |
| | 1 51 | 132 53 | 20. | 6 50 m. | | 6 | Azimut. | Idem. | N. 11. E. | 2 42 0 | | | | | | | |
| | 1 51 | 132 53 | | 7 0 m. | | 6 | Azimut. | Idem. | N. 11. E. | 2 24 16 | 2 | 33 8 | 1 51 | 132 53 | | | |
| | 1 50 | 132 45 | | 4 45 s. | | 6 | Azimut. | Dunette | E. 22. N. | 2 16 50 | | | | | | | |
| | 1 50 | 132 45 | | 5 0 s. | | 6 | Azimut. | Idem. | E. 22. N. | 2 39 48 | 2 | 28 19 | 1 56 | 132 45 | | | |
| | 2 30 | 133 0 | 22. | 7 30 m. | R. | 6 | Azimut. | Gaillard d'arr. | N. E. | 4 10 0 | | | | | | | |
| | 2 31 | 133 1 | | 7 45 m. | Lm. | 6 | Azimut. | Idem. | N. E. | 3 12 40 | | 3 41 20 | 2 30 | 133 0 | | | |
| | 2 55 | 133 20 | | 5 15 s. | | 6 | Azimut. | Dunette | E. 22. N. | 2 6 40 | | | | | | | |
| | 3 52 | 133 35 | 23. | 5 24 s. | | 8 | Azimut. | Gaillard d'arr. | E. 34. N. | 3 46 48 | | | | | | | |
| | 3 53 | 133 35 | | 5 50 s. | Lm. | 1 | Amplit. | Idem. | E. 34. N. | 3 40 0 | | | | | | | |
| | 3 41 | 133 53 | 24. | 7 20 m. | | 5 | Azimut. | Idem. | Est. | 2 8 0 | | | | | Observation doutuse: tempêtes très-fortes. | | |
| | 3 24 | 135 1 | 26. | 7 0 m. | | 6 | Azimut. | Idem. | Ouest. | 2 50 30 | | | | | | | |
| | 3 28 | 135 10 | 27. | 6 15 m. | | 1 | Amplit. | Idem. | Est. | 2 47 0 | | | | | | | |
| | 3 28 | 135 10 | | 7 0 m. | | 8 | Azimut. | Idem. | Est. | 2 54 0 | 2 | 50 30 | 3 28 | 135 10 | | | |
| | 3 37 | 135 25 | | 6 0 s. | | 6 | Azimut. | Dunette | E. 34. N. | 3 49 20 | | | | | | | |
| | 3 39 | 135 27 | | 5 45 s. | | 1 | Amplit. | G. d'arr. | E. 34. N. | 3 45 20 | 3 | 47 20 | 3 38 | 135 20 | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|--|---------------------------|-----------|-------------------|---------|--------------------|-------------------------------|----------------------|--|--|-------------------------|---------------------------|------------|-----------------------------|--|--|
| | | | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | DÉCLINAISON | | | | | |
| | Latitude | Longitude | | | | | | | | DÉCLINAISON conclue. | POSITION géographique. | | | | |
| Smile. | N. | E. P. | 1819. | | | | | | | N. E. | N. E. | N. | E. P. | | |
| Traversée de l'île Rawak à l'île Guam. | 3° 38' | 135°37' | Janvier, 28. | 6°15'm. | Lm. | 1 | Amplit. | G. d'arr. | S. 22° E. | 3° 17' 40" | | | | | |
| | 3 37 | 135 37 | | 6 55 m. | | 6 | Azimut. | <i>Idem.</i> | S. 22. E. | 3 25 30 | 3°26'49 | 3° 37' | 135°37' | | |
| | 3 37 | 135 37 | | 7 0 m. | G. | 6 | Azimut. | <i>Idem.</i> | S. 25. E. | 3 37 16 | | | | | |
| | 3 41 | 135 58 | 30. | 7 45 m. | Lm. | 5 | Azimut. | Guillard à l'escalier de tribord. | Est. | 2 46 20 | | | | | |
| | 3 39 | 135 59 | | 5 0 s. | B. | 4 | Azimut. | G. d'arr. | Est. | 4 13 0 | | | | | |
| | 3 39 | 135 59 | | 5 15 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | Est. | 3 32 40 | 3 52 50 | 3 39 | 135 59 | | |
| | 3 57 | 136 5 | 31. | 7 0 m. | | 5 | Azimut. | <i>Idem.</i> | N. 45. E. | 2 51 20 | | | | | |
| | 4 2 | 136 8 | | 8 30 m. | P. | 4 | Azimut. | <i>Idem.</i> | N. 45. E. | 4 50 10 | 3 50 45 | 3 59 | 136 6 | | |
| | Février, | | | | | | | | | | | | | | |
| | 3 30 | 136 27 | 1 ^{er} . | 7 0 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | S. 11. E. | 2 12 0 | | | | | |
| | 3 32 | 136 29 | | 5 0 s. | | 6 | Azimut. | <i>Idem.</i> | N. 45. E. | 2 32 0 | | | | | |
| | 3 35 | 136 26 | 2. | 6 8 m. | | 1 | Amplit. | <i>Idem.</i> | N. 22. E. | 1 42 0 | | | | | |
| | 3 36 | 136 26 | | 7 10 m. | | 6 | Azimut. | <i>Idem.</i> | N. 22. E. | 3 28 20 | | | | | |
| | 3 1 | 136 35 | 3. | 6 10 m. | | 1 | Amplit. | <i>Idem.</i> | E. 22. S. | 1 8 0 | | | | | |
| | 3 0 | 136 36 | | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 1 16 50 | 1 12 25 | 3 0 | 136 35 | | |
| | 2 54 | 136 37 | | 5 15 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 2 32 20 | | | | | |
| | 2 29 | 137 12 | 4. | 5 20 s. | | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 3 5 0 | | | | | |
| | 1 58 | 137 47 | 5. | 7 20 m. | | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 2 21 0 | | | | | |
| | 1 57 | 137 47 | | 8 0 m. | B. | 4 | Azimut. | <i>Idem.</i> | E. 22. S. | 3 7 50 | 2 44 25 | 1 57 | 137 47 | | |
| | 1 36 | 138 5 | | 5 30 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | Est. | 2 39 20 | | | | | |
| | 0 49 | 138 20 | 6. | 6 6 m. | | 1 | Amplit. | <i>Idem.</i> | S. 22. E. | 2 0 0 | 2 740 | 0 47 | 138 20 | | |
| | 0 46 | 138 20 | | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | S. 22. E. | 2 15 20 | | | | | |
| | 1 18 | 139 22 | 8. | 6 5 m. | | 1 | Amplit. | <i>Idem.</i> | Est. | 3 21 0 | | | | | |
| | 1 13 | 140 39 | 9. | 6 6 m. | | 1 | Amplit. | <i>Idem.</i> | E. 11. N. | 4 2 50 | 4 13 30 | 1 13 | 140 40 | | |
| | 1 13 | 140 41 | | 7 0 m. | | 6 | Azimut. | P.-avant | E. 11. N. | 4 24 10 | | | Résultat paraissant faible. | | |
| | 1 5 | 141 31 | 10. | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | Est. | 4 22 0 | 4 22 0 | | Moyenne du matin. | | |
| | 0 56 | 141 36 | | 4 30 s. | R. | 6 | Azimut. | <i>Idem.</i> | S. 45. E. | 3 19 30 | 3 45 10 | | Moyenne générale. | | |
| | 0 55 | 141 37 | | 5 30 s. | Lm. | 3 | Azimut. | G. d'arr. | E. 22. S. | 3 34 0 | 3 26 45 | 0 55 | 141 36 | | |
| | 0 29 | 141 51 | 11. | 6 0 m. | | 1 | Amplit. | <i>Idem.</i> | E. 34. S. | 3 24 50 | | | Moyenne du soir. | | |
| | 0 29 | 141 51 | | 6 0 m. | | 6 | Azimut. | <i>Idem.</i> | E. 34. S. | 3 25 16 | | | | | |
| | 0 28 | 141 53 | | 6 40 m. | | 8 | Azimut. | <i>Idem.</i> | E. 34. S. | 3 31 38 | 3 39 33 | 0 27 | 141 52 | | |
| | 0 24 | 141 54 | | 8 0 m. | B. | 4 | Azimut. | <i>Idem.</i> | S. 45. E. | 4 16 30 | | | | | |
| | 0 1 | 142 7 | | 5 20 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 34. S. | 3 5 10 | 3 3 10 | 0 1 | 142 7 | | |
| | 0 0 | 142 7 | | 5 25 s. | | 6 | Azimut. | <i>Idem.</i> | E. 34. S. | 3 1 10 | | | | | |

VOYAGE AUTOUR DU MONDE.

| PARAGE OÙ SE TROUVAIT le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | | REMARQUES. | |
|--|---------------------------|----------|-----------|----------|-------------------|-------------------------------|----------------------|------------------------|--|-------------------------|---------------------------|--------|------------|-------------------|
| | | | DATE. | HEURE. | OBSER- VATRUS. | NOMBRE d'expé- riences. | MÉTHODE employée. | | | DÉCLINAISON conclue. | POSITION géographique. | | | |
| | | Latitude | Longitude | | | | | | | | | | | |
| Suite. | S. | E. P. | 1819. | Février. | | | | | | N. E. | N. E. | S. | E. P. | |
| Traversée de l'île Rawak à l'île Guam. | 0° 14' | 142° 23' | 12. | 6° 10'm. | Lm. | 1 | Amplit. | G. d'arr. | S: 45° E. | 3° 4' 30" | | | | |
| | 0 12 | 142 24 | | 7 15 m. | | 5 | Azimut. | <i>Idem.</i> | N. 11. E. | 5 21 40 | 4° 34' 18 | 0° 13' | 142° 24' | Moyenne du matin. |
| | 0 12 | 142 24 | | 7 20 m. | | 8 | Azimut. | <i>Idem.</i> | N. 11. E. | 5 16 45 | | | | |
| | 0 27 | 142 33 | | 5 0 s. | P. | 4 | Azimut. | <i>Idem.</i> | S. 34. E. | 2 30 0 | | | | |
| | 0 28 | 142 33 | | 5 10 s. | | 2 | Azimut. | <i>Idem.</i> | S. 34. E. | 2 20 0 | 3 31 43 | | | Moyenne générale. |
| | 0 28 | 142 33 | | 5 20 s. | Lm. | 5 | Azimut. | <i>Idem.</i> | S. 22. E. | 3 35 40 | | | | |
| | 0 29 | 142 33 | | 5 30 s. | | 6 | Azimut. | <i>Idem.</i> | S. 22. E. | 3 30 10 | 2 54 10 | 0 28 | 142 33 | Moyenne du soir. |
| | 0 29 | 142 33 | | 5 50 s. | P. | 1 | Azimut. | <i>Idem.</i> | S. 22. E. | 2 35 0 | | | | |
| | 0 41 | 142 32 | 13. | 6 10 m. | Lm. | 1 | Amplit. | <i>Idem.</i> | E. 34. N. | 5 44 10 | | | | |
| | 0 41 | 142 32 | | 7 0 m. | | 8 | Azimut. | <i>Idem.</i> | Sud. | 3 31 45 | | | | |
| | 0 41 | 142 32 | | 7 10 m. | | 6 | Azimut. | <i>Idem.</i> | Sud. | 4 23 40 | 4 35 39 | 0 41 | 142 32 | |
| | 0 41 | 142 32 | | 7 15 m. | G. | 6 | Azimut. | <i>Idem.</i> | Sud. | 4 43 0 | | | | |
| | 0 37 | 142 31 | | 5 10 s. | | 2 | Azimut. | <i>Idem.</i> | N. 45. E. | 5 9 40 | | | | |
| | 0 36 | 142 33 | | 6 5 s. | Lm. | 1 | Amplit. | <i>Idem.</i> | N. 45. E. | 4 55 10 | 5 22 5 | 0 36 | 142 32 | |
| | 0 11 | 143 24 | 14. | 5 10 s. | | 6 | Azimut. | <i>Idem.</i> | N. 45. E. | 6 9 28 | | | | |
| | 0 11 | 143 24 | | 5 15 s. | | 6 | Azimut. | <i>Idem.</i> | N. 45. E. | 6 11 10 | 6 5 53 | 0 11 | 143 24 | |
| | 0 11 | 143 24 | | 5 30 s. | R. | 6 | Azimut. | <i>Idem.</i> | N. 45. E. | 5 57 0 | | | | |
| | 0 16 | 143 40 | 15. | 8 0 m. | Lm. | 4 | Azimut. | <i>Idem.</i> | E. 22. S. | 5 55 0 | | | | |
| | 0 16 | 143 41 | | 8 15 m. | | 6 | Azimut. | <i>Idem.</i> | E. 22. S. | 6 1 28 | 5 58 14 | 0 16 | 143 40 | |
| | 0 21 | 143 36 | | 5 0 s. | | 6 | Azimut. | Dunette | Est. | 5 14 0 | | | | |
| | 0 21 | 143 36 | | 5 15 s. | | 6 | Azimut. | <i>Idem.</i> | E. 22. N. | 5 7 0 | 5 24 19 | 0 21 | 143 36 | |
| | 0 21 | 143 36 | | 5 15 s. | B. | 4 | Azimut. | <i>Idem.</i> | N. 45. E. | 5 39 40 | | | | |
| | 0 21 | 143 36 | | 5 20 s. | | 4 | Azimut. | <i>Idem.</i> | N. 45. E. | 5 36 35 | | | | |
| | 0 21 | 143 34 | 16. | 6 10 m. | Lm. | 1 | Amplit. | G. d'arr. | N. 22. E. | 5 58 50 | | | | |
| | 0 21 | 143 34 | | 7 15 m. | | 6 | Azimut. | <i>Idem.</i> | N. 22. E. | 6 40 10 | 6 29 13 | 0 21 | 143 34 | |
| | 0 20 | 143 34 | | 7 20 m. | | 6 | Azimut. | <i>Idem.</i> | N. 22. E. | 6 48 40 | | | | |
| | 0 5 | 143 29 | | 5 0 s. | | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 6 50 10 | | | | |
| | 0 4 | 143 28 | | 5 15 s. | | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 6 51 20 | 6 52 57 | 0 4 | 143 28 | |
| | 0 4 | 143 28 | | 5 20 s. | P. | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 6 57 20 | | | | |
| Nord. | | | | | | | | | | | | | | |
| | 0 22 | 143 16 | 17. | 7 0 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | Nord. | 6 23 10 | | | | |
| | 0 22 | 143 16 | | 7 5 m. | | 6 | Azimut. | <i>Idem.</i> | Nord. | 6 12 20 | 6 17 45 | 0 22 | 143 16 | |
| Sud. | | | | | | | | | | | | | | |
| | 0 34 | 143 34 | 18. | 6 0 m. | | 1 | Amplit. | <i>Idem.</i> | E. 34. S. | 5 2 23 | | | | |
| | 0 37 | 143 35 | | 7 30 m. | | 6 | Amplit. | <i>Idem.</i> | E. 34. S. | 5 9 54 | 5 12 32 | 0 36 | 143 35 | |
| | 0 37 | 143 35 | | 7 35 m. | | 6 | Azimut. | <i>Idem.</i> | E. 34. S. | 5 25 20 | | | | |

CHAP. VI.—DÉCLINAISONS DE L'AIGUILLE AIMANTÉE.

2

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|--|---------------------------|-----------|-------------------|---------|----------------------|-------------------------------|----------------------|------------------------|--|-------------------|------------------------------|---------------------------|----------------|--|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATRUS. | NOMBRE d'expé- riences. | MÉTHODE employée. | | | N. E. | DÉCLINA- ISON conclue. | POSITION géographique. | | | |
| | | | | | | | | | | Latitude | Longitude | | | | |
| Suite. Traversée de l'île Rawak à l'île Guam. | Sud. | E. P. | 1819. Février. | 18. | 5 ²⁵ ' s. | Lm. | 6 | Azimut. | G. d'arr. | E. 22° S. | 5° 58' 40" | N. | E. P. | | |
| | 1° 0 | 143° 51' | | | 5 27 s. | | 6 | Azimut. | Idem. | E. 22. S. | 6 240 | 6° 0' 47 | 1° 0' 143° 51' | | |
| | 1 0 | 143 51 | | | 5 30 s. | B. | 6 | Azimut. | Idem. | E. 34. S. | 6 1 0 | | | | |
| | 1 28 | 144 7 | 19. | 6 0 m. | Lm. | 1 | Amplit. | Idem. | E. 22. S. | 5 11 45 | | | | | |
| | 1 29 | 144 9 | | 7 20 m. | | 6 | Azimut. | Idem. | E. 22. S. | 4 59 20 | 5 458 | 1 29 144 8 | | | |
| | 1 29 | 144 9 | | 7 25 m. | | 6 | Azimut. | Idem. | E. 22. S. | 5 3 50 | | | | | |
| | 1 37 | 144 11 | | 5 15 s. | | 6 | Azimut. | Dunette | Est. | 6 2 20 | | | | | |
| | 1 37 | 144 11 | | 5 20 s. | | 6 | Azimut. | Idem. | Est. | 6 2 48 | 5 58 43 | 1 37 144 11 | | | |
| | 1 38 | 144 12 | | 5 40 s. | P. | 6 | Azimut. | Idem. | Est. | 5 51 0 | | | | | |
| | 1 44 | 144 8 | 20. | 5 15 s. | Lm. | 6 | Azimut. | G. d'arr. | E. 22. S. | 5 23 40 | | | | | |
| | 1 44 | 144 8 | | 5 20 s. | | 6 | Azimut. | Idem. | E. 22. S. | 5 25 0 | 5 34 53 | 1 44 144 8 | | | |
| | 1 44 | 144 9 | | 5 35 s. | R. | 6 | Azimut. | Idem. | E. 22. S. | 5 56 0 | | | | | |
| | 1 46 | 144 10 | | 6 4 m. | | 1 | Amplit. | Dunette | N. 11. O. | 6 58 20 | | | | | |
| | 1 44 | 144 7 | 21. | 7 0 m. | Lm. | 6 | Azimut. | Idem. | N. 22. O. | 6 59 2 | 7 2 34 | 1 45 144 8 | | | |
| | 1 44 | 144 7 | | 7 5 m. | | 6 | Azimut. | Idem. | N. 22. O. | 7 10 20 | | | | | |
| | 1 45 | 144 16 | | 5 0 s. | | 6 | Azimut. | Idem. | E. 22. N. | 6 52 32 | | | | | |
| | 1 45 | 144 16 | | 5 0 s. | | 6 | Azimut. | Idem. | E. 22. N. | 6 53 10 | | | | | |
| | 1 45 | 144 16 | | 5 0 s. | B. | 4 | Azimut. | Idem. | E. 11. N. | 6 49 5 | 6 51 50 | 1 45 144 16 | | | |
| | 1 45 | 144 16 | | 5 0 s. | | 4 | Azimut. | Idem. | E. 11. N. | 6 53 10 | | | | | |
| | 1 45 | 144 27 | 22. | 6 0 m. | Lm. | 1 | Amplit. | G. d'arr. | N. 34. E. | 5 56 40 | 5 51 2 | 1 44 144 27 | | | |
| | 1 44 | 144 27 | | 9 0 m. | | 6 | Azimut. | Idem. | N. 34. E. | 5 45 24 | | | | | |
| | 1 38 | 144 20 | | 5 0 s. | | 6 | Azimut. | Idem. | N. 45. E. | 6 2 34 | 6 5 22 | 1 38 144 20 | | | |
| | 1 38 | 144 20 | | 5 5 s. | | 5 | Azimut. | Idem. | N. 45. E. | 6 8 10 | | | | | |
| | 1 35 | 144 38 | 23. | 7 30 m. | | 6 | Azimut. | Travers. du g. mât. | E. 11. S. | 6 52 30 | 6 52 45 | 1 35 144 38 | | | |
| | 1 35 | 144 38 | | 7 35 m. | | 6 | Azimut. | Idem. | E. 11. S. | 6 53 0 | | | | | |
| | 1 16 | 144 5 | 24. | 6 10 m. | | 1 | Amplit. | G. d'arr. | N. 11. E. | 5 53 38 | | | | | |
| | 1 13 | 144 3 | | 7 20 m. | | 6 | Azimut. | Idem. | N. 11. E. | 6 26 30 | 6 14 23 | 1 14 144 4 | | | |
| | 1 13 | 144 3 | | 7 25 m. | | 6 | Azimut. | Idem. | N. 11. E. | 6 23 0 | | | | | |
| | 0 49 | 143 52 | | 5 15 s. | | 6 | Azimut. | Idem. | E. 22. S. | 4 32 0 | | | | | |
| | 0 49 | 143 52 | | 5 15 s. | B. | 4 | Azimut. | Idem. | E. 34. S. | 4 34 15 | | | | | |
| | 0 49 | 143 52 | | 5 15 s. | | 4 | Azimut. | Idem. | E. 34. S. | 4 31 20 | 4 30 31 | 0 49 143 52 | | | |
| | 0 49 | 143 52 | | 5 20 s. | Lm. | 6 | Azimut. | Idem. | E. 22. S. | 4 24 30 | | | | | |
| | 0 53 | 143 59 | 25. | 6 50 m. | | 6 | Azimut. | Idem. | E. 22. S. | 4 30 50 | 4 27 35 | 0 53 143 59 | | | |
| | 0 53 | 143 59 | | 6 55 m. | | 6 | Azimut. | Idem. | E. 22. S. | 4 24 20 | | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|--|---------------------------|-----------|----------------------------|---------------------|--------------------|-------------------------------|----------------------|--|------------------------|--|-------------------|----------|------------|-----------|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | DÉCLINAISON | | REMARQUES. | | |
| | | | | | | | | | | | date | conclue. | Latitude. | Longitude | |
| Suite. Traversée de l'île Rawak à l'île Guam. | Sud. | E. P. | 1819. Février. | | | | | | | | N. E. | N. E. | S. | E. P. | |
| | 0°36' | 143°49' | 26. | 7 ^h 0'm. | Lm. | 6 | Azimut. | G. d'arr. | N. 11°.E. | 5°43'36" | | | | | |
| | 0 35 | 143 49 | | 7 15 m. | | 6 | Azimut. | Idem. | N. 11. E. | 5 45 36 | 5°49'44 | 0° 35' | 143° 9' | | |
| | 0 33 | 143 48 | | 7 45 m. | R. | 6 | Azimut. | Idem. | N. 11. E. | 6 0 0 | | | | | |
| | 0 4 | 143 39 | | 5 0 s. | Lm. | 6 | Azimut. | Idem. | Nord. | 5 54 0 | | 5 50 30 | 0 4 | 143 39 | |
| | 0 4 | 143 39 | | 5 0 s. | | 6 | Azimut. | Idem. | Nord. | 5 47 0 | | | | | |
| Nord. | | | | | | | | | | | | | | | |
| | 0 23 | 143 40 | 27. | 6 4 m. | | 1 | Amplit. | Idem. | N. 34. E. | 6 16 51 | | | | | |
| | 0 25 | 143 41 | | 7 0 m. | | 6 | Azimut. | Idem. | N. 34. E. | 6 31 20 | 6 25 6 | 0 24 | 143 41 | | |
| | 0 25 | 143 41 | | 7 5 m. | | 6 | Azimut. | Idem. | N. 34. E. | 6 27 6 | | | | | |
| | 0 29 | 143 51 | | 5 30 s. | | 6 | Azimut. | Dunette | E. 34. N. | 5 23 20 | | | | | |
| | 0 37 | 144 35 | 28. | 6 5 m. | | 1 | Amplit. | G. d'arr. | Est. | 4 53 58 | | | | | |
| | 0 35 | 144 39 | | 7 0 m. | | 6 | Azimut. | Idem. | E. 11. S. | 4 39 36 | 4 42 18 | 0 36 | 144 38 | | |
| | 0 35 | 144 39 | | 7 5 m. | | 6 | Azimut. | Idem. | E. 11. S. | 4 33 20 | | | | | |
| | 0 43 | 144 39 | Mars. 1 ^{er} . | 6 5 m. | | 1 | Amplit. | Idem. | E. 34. S. | 4 32 55 | | 4 17 5 | 0 42 | 144 39 | |
| | 0 41 | 144 40 | | 6 45 m. | | 5 | Azimut. | Idem. | E. 34. S. | 4 18 20 | | | | | |
| | 1 7 | 144 31 | | 5 0 s. | | 6 | Azimut. | Idem. | Nord. | 6 20 20 | | | | | |
| | 1 8 | 144 31 | | 5 15 s. | | 4 | Azimut. | Idem. | Nord. | 6 32 44 | 6 26 41 | 1 8 | 144 31 | | |
| | 1 8 | 144 30 | | 5 25 s. | | 6 | Azimut. | Idem. | Nord. | 6 27 0 | | | | | |
| | 1 47 | 144 13 | 2. | 6 6 m. | | 1 | Amplit. | Idem. | E. 22. S. | 4 8 55 | | | | | |
| | 1 46 | 144 13 | | 6 45 m. | | 6 | Azimut. | Idem. | E. 22. S. | 4 30 12 | 4 24 6 | 1 46 | 144 13 | | |
| | 1 46 | 144 13 | | 6 50 m. | | 6 | Azimut. | Idem. | E. 22. S. | 4 33 10 | | | | | |
| | 1 45 | 144 8 | | 5 10 s. | | 6 | Azimut. | Idem. | N. 22. E. | 7 12 34 | | | | | |
| | 1 45 | 144 8 | | 5 15 s. | | 6 | Azimut. | Idem. | N. 22. E. | 7 13 6 | | | | | |
| | 1 45 | 144 8 | | 5 20 s. | B. | 4 | Azimut. | Idem. | N. 22. E. | 7 12 0 | | 7 10 51 | 1 45 | 144 8 | |
| | 1 45 | 144 8 | | 5 23 s. | | 4 | Azimut. | Idem. | N. 22. E. | 7 5 45 | | | | | |
| | 1 46 | 144 10 | 3. | 6 50 m. | Lm. | 6 | Azimut. | Idem. | E. 22. S. | 4 18 0 | | 4 17 0 | 1 46 | 144 10 | |
| | 1 46 | 144 10 | | 7 0 m. | | 6 | Azimut. | Idem. | E. 22. S. | 4 16 0 | | | | | |
| | 1 37 | 144 12 | | 5 10 s. | | 6 | Azimut. | Idem. | S. 22. E. | 5 32 30 | | | | | |
| | 1 37 | 144 12 | | 5 15 s. | | 6 | Azimut. | Idem. | S. 22. E. | 5 12 0 | 5 18 13 | 1 37 | 144 12 | | |
| | 1 37 | 144 11 | | 6 10 s. | | 1 | Amplit. | Idem. | S. 22. E. | 5 10 10 | | | | | |
| | 1 46 | 144 2 | 4. | 6 45 m. | | 6 | Azimut. | Idem. | N. 11. O. | 6 47 0 | | | | | |
| | 1 46 | 144 2 | | 6 50 m. | | 6 | Azimut. | Idem. | N. 11. O. | 6 24 40 | 6 33 15 | 1 46 | 144 2 | | |
| | 1 46 | 144 2 | | 6 54 m. | | 5 | Azimut. | Idem. | N. 11. O. | 6 28 6 | | | | | |
| | 2 0 | 144 2 | | 5 20 s. | | 6 | Azimut. | Idem. | Nord. | 7 4 26 | | 6 57 43 | 2 0 | 144 2 | |
| | 2 0 | 144 2 | | 5 25 s. | | 6 | Azimut. | Idem. | Nord. | 6 51 0 | | | | | |

| PARAGE où se trouvant le vaisseau. | POSITION GÉOGRAPHIQUE. Latitude Longitude | ÉPOQUE. | | INDICATIONS. | | | | CAP du VASEAU. | DÉCLINAISON de l'aiguille aimante. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|--|---|----------|---------------------|-------------------------|-------------------------------|----------------------|--|----------------------|---|-------------------|-----------|--|--|--|
| | | DATE. | HEURE. | OBSER- VA- TEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | N. | E. | | | |
| | | | | | | | | | | Latitude | Longitude | | | |
| Saïte. | N. E. P. | 1819. | | | | | | | N. E. | N. E. | N. E. P. | | | |
| Traversée de l'île Rawak à l'île Guam. | 2°45' 144° 1' | Mars. 5. | 7 ^h 0'm. | Lm. | 6 | Azimut. <i>Idem.</i> | Gaillard d'arr. <i>Idem.</i> | S. 34° E. | 4°23' 2" | | | | | |
| | 2 45 144 1 | | 7 5 m. | | 6 | Azimut. <i>Idem.</i> | S. 34. E. | 4 25 56 | 4°30'22 | 2° 43' | 144° 1' | | | |
| | 2 45 144 1 | | 7 10 m. | B. | 4 | Azimut. <i>Idem.</i> | S. 34. E. | 4 33 0 | | | | | | |
| | 2 45 144 1 | | 7 10 m. | | 4 | Azimut. <i>Idem.</i> | S. 34. E. | 4 39 30 | | | | | | |
| | 2 19 144 14 | | 5 25 s. | Lm. | 6 | Azimut. <i>Idem.</i> | S. 45. E. | 5 0 40 | | | | | | |
| | 2 18 144 15 | | 5 45 s. | | 6 | Azimut. <i>Idem.</i> | S. 45. E. | 5 12 56 | 4 54 32 | 2 18 | 144 15 | | | |
| | 2 18 144 15 | | 6 8 s. | | 1 | Amplit. <i>Idem.</i> | S. 45. E. | 4 30 0 | | | | | | |
| | 2 1 144 33 | 6. | 7 45 m. | | 6 | Azimut. <i>Idem.</i> | E. 22. N. | 5 28 36 | | | | | | |
| | 1 39 145 2 | 7. | 7 10 m. | | 6 | Azimut. <i>Idem.</i> | E. 22. S. | 5 42 10 | | | | | | |
| | 1 39 145 2 | | 7 15 m. | | 6 | Azimut. <i>Idem.</i> | Est. | 5 38 16 | 5 40 13 | 1 39 | 145 2 | | | |
| | 1 23 145 15 | | 5 10 s. | R. | 6 | Azimut. <i>Idem.</i> | E. 34. S. | 4 33 0 | | | | | | |
| | 1 22 145 16 | | 5 20 s. | Lm. | 5 | Azimut. <i>Idem.</i> | E. 34. S. | 4 31 6 | 4 25 57 | 1 22 | 145 16 | Tangages assez forts; le soleil dans les nuages rend l'observation douceuse. | | |
| | 1 22 145 16 | | 5 30 s. | | 5 | Azimut. <i>Idem.</i> | E. 34. S. | 4 41 36 | | | | | | |
| | 1 30 145 27 | 8. | 6 4 m. | | 1 | Amplit. <i>Idem.</i> | N. 27. E. | 6 20 44 | | | | | | |
| | 1 35 145 28 | | 7 0 m. | | 5 | Azimut. <i>Idem.</i> | N. 34. E. | 6 15 42 | 6 18 42 | 1 33 | 145 28 | | | |
| | 1 35 145 28 | | 7 5 m. | | 5 | Azimut. <i>Idem.</i> | N. 34. E. | 6 19 40 | | | | | | |
| | 2 14 145 48 | | 5 30 s. | | 5 | Azimut. <i>Idem.</i> | N. 45. E. | 6 9 10 | | | | | | |
| | 2 14 145 48 | | 5 30 s. | | 5 | Azimut. <i>Idem.</i> | N. 45. E. | 5 44 36 | | | | | | |
| | 2 14 145 48 | | 5 35 s. | | 5 | Azimut. <i>Idem.</i> | N. 45. E. | 5 47 22 | 5 52 32 | 2 14 | 145 48 | Tangages assez forts; soleil nuageux. | | |
| | 2 15 145 49 | | 6 0 s. | B. | 4 | Azimut. <i>Idem.</i> | N. 45. E. | 5 49 0 | | | | | | |
| | 3 7 146 19 | 9. | 6 10 m. | Lm. | 1 | Amplit. <i>Idem.</i> | N. 45. E. | 5 57 55 | | | | | | |
| | 3 10 146 21 | | 6 50 m. | | 6 | Azimut. <i>Idem.</i> | N. 45. E. | 7 18 36 | | | | | | |
| | 3 10 146 21 | | 6 55 m. | | 7 | Azimut. <i>Idem.</i> | N. 45. E. | 7 17 4 | 6 52 51 | 3 9 | 146 20 | Très-forts tangages. | | |
| | 3 10 146 21 | | 6 55 m. | | 6 | Azimut. <i>Idem.</i> | N. 45. E. | 6 57 50 | | | | | | |
| | 3 37 146 41 | | 6 8 s. | | 1 | Amplit. <i>Idem.</i> | E. 34. N. | 6 13 36 | | | | | | |
| | 4 7 146 50 | 10. | 7 30 m. | | 6 | Azimut. <i>Idem.</i> | S. 40. E. | 6 40 0 | | | | | | |
| | 4 7 146 50 | | 7 35 m. | | 5 | Azimut. <i>Idem.</i> | S. 40. E. | 6 52 54 | 6 46 27 | 4 7 | 146 50 | | | |
| | 4 41 146 49 | | 5 0 s. | R. | 6 | Azimut. <i>Idem.</i> | N. 11. E. | 6 12 0 | | | | | | |
| | 4 41 146 49 | | 5 10 s. | Lm. | 5 | Azimut. <i>Idem.</i> | N. 11. E. | 7 5 30 | | | | | | |
| | 4 41 146 49 | | 5 12 s. | | 5 | Azimut. <i>Idem.</i> | N. 11. E. | 7 10 40 | 6 44 5 | 4 41 | 146 49 | Résultat qui paraît trop faible. | | |
| | 4 41 146 49 | | 5 15 s. | | 5 | Azimut. <i>Idem.</i> | N. 11. E. | 6 28 10 | | | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|--|---------------------------|-----------|---------------------|--------|--------------------|-------------------------------|----------------------|--|--|------------------------------|---------------------------|------------|-------|--|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | DÉCLINAIS- ON conclue. | POSITION géographique. | | | | |
| | | | | | | | | | | Latitude. | Longitude. | | | | |
| Suite. | N. | E. P. | 1819. | | | | | | | N. E. | N. E. | N. E. | E. P. | | |
| Traversée de l'île Rawak à l'île Guam. | 5°16' 146°52' | Mars. 11. | 6 ^h 5'm. | Lm. | 1 | Amplit. | Gaillard d'arr. | N. 22° E. | 6°41'40" | | | | | | |
| | 5 21 146 53 | | 7 5 m. | | 6 | Azimut. | <i>Idem.</i> | N. 22. E. | 7 11 40 | | | | | | |
| | 5 21 146 53 | | 7 8 m. | | 6 | Azimut. | <i>Idem.</i> | N. 22. E. | 7 19 32 | 7° 9'31 | 5° 21' | 146°53' | | | |
| | 5 21 146 53 | | 7 10 m. | | 6 | Azimut. | <i>Idem.</i> | N. 22. E. | 7 3 24 | | | | | | |
| | 5 24 146 53 | | 7 50 m. | B. | 4 | Azimut. | <i>Idem.</i> | N. 22. E. | 7 31 20 | | | | | | |
| | 5 32 146 58 | | 5 25 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 7 16 6 | | | | | | |
| | 5 32 146 58 | | 5 30 s. | | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 7 25 14 | | | | | | |
| | 5 32 146 58 | | 5 30 s. | | 5 | Azimut. | <i>Idem.</i> | N. 11. E. | 7 27 10 | 7 17 6 | 5 32 | 146 58 | | | |
| | 5 32 146 58 | | 5 30 s. | B. | 4 | Azimut. | <i>Idem.</i> | N. 22. E. | 7 17 0 | | | | | | |
| | 5 33 146 58 | | 5 50 s. | | 1 | Amplit. | <i>Idem.</i> | N. 22. E. | 7 0 0 | | | | | | |
| | 6 13 147 4 | 12. | 6 55 m. | Lm. | 5 | Azimut. | <i>Idem.</i> | N. 5. O. | 7 37 2 | | | | | | |
| | 6 13 147 4 | | 6 58 m. | | 5 | Azimut. | <i>Idem.</i> | N. 5. O. | 7 41 40 | 7 34 4 | 6 13 | 147 4 | | | |
| | 6 13 147 4 | | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | N. 5. O. | 7 23 30 | | | | | | |
| | 6 43 147 5 | | 5 35 s. | | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 6 48 46 | | | | | | |
| | 6 43 147 5 | | 5 40 s. | | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 6 39 30 | 6 44 8 | 6 43 | 147 5 | | | |
| | 7 16 147 8 | 13. | 6 5 m. | | 1 | Amplit. | <i>Idem.</i> | Nord. | 6 25 6 | | | | | | |
| | 7 44 147 6 | | 5 0 s. | R. | 6 | Azimut. | <i>Idem.</i> | Nord. | 4 42 0 | | | | | | |
| | 7 46 147 6 | | 5 35 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 6 25 3 | 5 46 54 | 7 45 | 147 6 | | | |
| | 7 46 147 6 | | 5 40 s. | | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 6 13 38 | | | | | | |
| | 8 38 146 57 | 14. | 6 45 m. | | 4 | Azimut. | <i>Idem.</i> | N. 17. O. | 6 30 42 | | | | | | |
| | 8 38 146 57 | | 6 50 m. | | 6 | Azimut. | <i>Idem.</i> | N. 17. O. | 6 14 46 | 6 20 53 | 8 38 | 146 57 | | | |
| | 8 39 146 57 | | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | N. 17. O. | 6 17 12 | | | | | | |
| | 11 43 145 6 | 15. | 5 20 s. | | 3 | Azimut. | <i>Idem.</i> | N. 22. O. | 5 14 6 | | | | | | |
| | 11 44 145 5 | | 5 30 s. | | 10 | Azimut. | <i>Idem.</i> | N. 22. O. | 5 43 0 | 5 28 33 | 11 43 | 145 5 | | | |
| | 12 46 144 52 | 16. | 6 0 m. | | 1 | Amplit. | Dunette | N. 22. E. | 5 16 2 | | | | | | |
| | 12 52 144 52 | | 7 10 m. | | 4 | Azimut. | G. d'arr. | N. 22. E. | 5 53 0 | 5 41 40 | 12 50 | 144 52 | | | |
| | 12 52 144 52 | | 7 15 m. | | 5 | Azimut. | <i>Idem.</i> | N. 22. E. | 5 55 58 | | | | | | |
| | 13 23 144 10 | | 5 25 s. | | 5 | Azimut. | <i>Idem.</i> | O. 11. O. | 5 12 8 | | | | | | |
| | 13 23 144 10 | | 5 30 s. | | 5 | Azimut. | <i>Idem.</i> | O. 11. O. | 5 26 4 | 5 16 44 | 13 23 | 144 10 | | | |
| | 13 23 144 9 | | 5 45 s. | R. | 6 | Azimut. | <i>Idem.</i> | O. 11. O. | 5 12 0 | | | | | | |

Soleil caché dans les nuages; mouvements du bâtiment très-forts; observation douteuse.

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|---------------|----------------------|---------|-------------------------|-------------------------------|----------------------|--|------------------------|--|--------------------------------|---------------------------|------------------|--------------------------------------|
| | | | DATE. | HEURE. | OBSER- VATI- ONS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | DÉCLINAISON SON conclue. | POSITION géographique. | | |
| | Latitude | Longitude | | | | | | | | | Latitude | Longitude | | |
| Traversée de l'île Guam aux îles Sandwich. | N. 13°40' | E. P. 142°44' | 1819. Juin. 6. | 5°50' | Lm. | 6 | Azimut. | Gaillard d'arrière près du dome. | S. 30° E. | N. E. 2°17'56" | N. E. | N. 13° 44' | E. P. 142°54' | Ce résultat paraît un peu faible. |
| | 13 44 | 142 54 | 7. | 8 0 m. | | 6 | Azimut. | Gaillard d'arr. | S. 45. E. | 3 6 0 | 3° 7'50" | | | |
| | 13 44 | 142 54 | | 8 0 m. | | 6 | Azimut. | Idem. | S. 45. E. | 3 9 40 | | | | |
| | 14 13 | 142 57 | 8. | 5 48 m. | | 1 | Amplit. | Idem. | N. 22. O. | 5 20 0 | | | | |
| | 14 16 | 142 57 | | 6 30 m. | | 5 | Azimut. | Idem. | N. 22. E. | 4 47 20 | | | | |
| | 14 16 | 142 57 | | 6 30 m. | | 6 | Azimut. | Idem. | N. 22. E. | 4 4 20 | 4 9 8 | 14 15 | 142 57 | |
| | 14 16 | 142 57 | | 6 40 m. | B. | 4 | Azimut. | Idem. | N. 22. E. | 3 17 0 | | | | |
| | 14 16 | 142 57 | | 6 40 m. | | 4 | Azimut. | Idem. | N. 22. E. | 3 17 0 | | | | |
| | 14 47 | 143 2 | | 5 0 s. | Lm. | 6 | Azimut. | Idem. | N. 22. E. | 3 54 0 | | | | |
| | 14 47 | 143 2 | | 5 0 s. | | 6 | Azimut. | Idem. | N. 22. E. | 4 15 0 | 4 0 42 | 14 47 | 143 2 | |
| | 14 48 | 143 2 | | 5 10 s. | B. | 4 | Azimut. | Idem. | N. 22. E. | 4 13 10 | | | | |
| | 14 48 | 143 2 | | 5 10 s. | | 4 | Azimut. | Idem. | N. 22. E. | 3 40 40 | | | | |
| | 14 22 | 143 6 | 9. | 6 35 m. | Lm. | 6 | Azimut. | Idem. | S. 22. E. | 3 5 10 | 3 39 30 | 14 22 | 143 6 | |
| | 14 22 | 143 6 | | 6 35 m. | | 6 | Azimut. | Idem. | S. 22. E. | 4 13 50 | | | | |
| | 14 29 | 143 14 | | 6 0 s. | | 5 | Azimut. | Dunette | S. 45. E. | 4 53 6 | | | | |
| | 14 28 | 143 15 | | 6 30 s. | | 5 | Azimut. | Idem. | S. 45. E. | 4 56 10 | 4 38 48 | 14 28 | 143 15 | |
| | 14 28 | 143 15 | | 6 30 s. | | 1 | Amplit. | Idem. | S. 45. E. | 4 7 1 | | | | |
| | 14 10 | 143 25 | 10. | 6 42 m. | | 1 | Amplit. | Gaillard d'arr. | S. 33. E. | 2 47 55 | | | | |
| | 14 32 | 143 26 | | 5 55 s. | | 6 | Azimut. | Idem. | N. 33. E. | 4 42 10 | | | | |
| | 14 32 | 143 26 | | 5 55 s. | | 5 | Azimut. | Idem. | N. 33. E. | 4 38 50 | 4 39 20 | 14 32 | 143 26 | |
| | 14 33 | 143 26 | | 6 30 s. | | 1 | Amplit. | Idem. | N. 22. E. | 4 37 0 | | | | |
| | 14 55 | 143 32 | 11. | 7 20 m. | G. | 6 | Azimut. | Idem. | N. 22. E. | 2 18 0 | | | | |
| | 14 27 | 143 39 | | 6 0 s. | Lm. | 5 | Azimut. | Idem. | N. 22. E. | 4 42 40 | | | | |
| | 14 27 | 143 39 | | 6 0 s. | | 6 | Azimut. | Idem. | N. 22. E. | 4 53 0 | 4 28 53 | 14 28 | 143 39 | |
| | 14 29 | 143 39 | | 6 30 s. | G. | 1 | Amplit. | Idem. | N. 22. E. | 3 51 0 | | | | |
| | 15 7 | 143 46 | 12. | 7 30 m. | R. | 6 | Azimut. | Idem. | N. 22. E. | 4 51 0 | | | | |
| | 15 7 | 143 46 | | 7 30 m. | Lm. | 6 | Azimut. | Idem. | N. 22. E. | 4 18 0 | 4 25 27 | 15 7 | 143 46 | |
| | 15 7 | 143 46 | | 7 30 m. | | 6 | Azimut. | Idem. | N. 22. E. | 4 7 20 | | | | |

VOYAGE AUTOUR DU MONDE.

| PARAGE où se trouvait le vaisseau. | POSITION | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|---|---------------|-----------|---------|--------------|-----------------------------------|-------------------------------|----------------------|--|------------------------|--|---------------------|---------------------------|---------------------------|---------|--|--|
| | GÉOGRAPHIQUE. | | DATE. | HEURE. | OBSER- VATRUS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | DÉCLINAISON | | POSITION géographique. | | | |
| | Latitude | Longitude | | | | | | | | | DÉCLINAISON soit | POSITION géographique. | | | | |
| Suite. Traversée de l'île Guam aux îles Sandwich. | Nord. | E. P. | 1819. | Juin. 12. | 5 ^h 25' ^s . | R. | 6 | Azimut. | Gaillard d'arr. | Nord. | N. E. | N. E. | E. | E. P. | | |
| | 15°48' | 143°38' | | | | Lm. | 6 | Azimut. | Idem. | Nord. | 4°28' 0" | | | | | |
| | 15 48 | 143 38 | | | 5 25 s. | | 6 | Azimut. | Idem. | Nord. | 3 39 50 | 3°59'27 | 15° 49' | 143°38' | | |
| | 15 48 | 143 38 | | | 5 25 s. | | 6 | Azimut. | Idem. | Nord. | 3 44 30 | | | | | |
| | 15 51 | 143 37 | | | 6 50 s. | | 1 | Amplit. | Idem. | Nord. | 4 5 27 | | | | | |
| | 16 20 | 143 44 | 13. | | 6 54 s. | | 1 | Amplit. | Idem. | Nord. | 3 58 5 | | | | | |
| | 17 14 | 143 57 | 15. | | 6 35 m. | | 5 | Azimut. | Idem. | N. 22°.O. | 3 40 8 | | | | | |
| | 17 14 | 143 57 | | | 6 35 m. | | 6 | Azimut. | Idem. | N. 22. O. | 3 58 52 | 3 49 30 | 17 14 | 143 57 | | |
| | 20 6 | 146 58 | 18. | | 7 25 m. | | 6 | Azimut. | Idem. | Est. | 2 50 0 | | | | | |
| | 20 6 | 146 58 | | | 7 25 m. | | 6 | Azimut. | Idem. | Est. | 2 51 40 | 2 34 50 | 20 6 | 146 59 | | |
| | 20 6 | 147 0 | | | 7 40 m. | B. | 4 | Azimut. | Idem. | Est. | 2 27 40 | | | | | |
| | 20 6 | 147 0 | | | 7 40 m. | | 4 | Azimut. | Idem. | Est. | 2 10 0 | 3 10 52 | ..... | ..... |  |  |
| | 20 6 | 148 10 | | | 5 50 s. | Lm. | 6 | Azimut. | Idem. | Est. | 4 0 44 | | | | | |
| | 20 6 | 148 10 | | | 5 50 s. | | 5 | Azimut. | Idem. | Est. | 3 54 42 | 4 58 34 | 20 6 | 148 11 | | |
| | 20 7 | 148 14 | | | 6 30 s. | | 1 | Amplit. | Idem. | Est. | 4 1 17 | | | | | |
| | 20 20 | 149 19 | 19. | | 6 45 m. | | 5 | Azimut. | Idem. | N. 33°.E. | 5 53 30 | | | | | |
| | 20 22 | 149 20 | | | 7 15 m. | | 5 | Azimut. | Idem. | N. 22. E. | 5 7 0 | 5 16 43 | 20 21 | 149 20 | | |
| | 20 22 | 149 20 | | | 7 15 m. | | 5 | Azimut. | Idem. | N. 22. E. | 4 49 40 | | | | | |
| | 20 51 | 149 38 | | | 5 0 s. | | 6 | Azimut. | Idem. | N. 22. E. | 5 34 10 | 5 32 25 | ..... | ..... |  |  |
| | 20 51 | 149 38 | | | 5 0 s. | | 6 | Azimut. | Idem. | N. 22. E. | 5 35 56 | 5 35 3 | 20 58 | 149 38 | | |
| | 20 56 | 149 37 | | | 6 30 s. | | 1 | Amplit. | Idem. | N. 22. E. | 6 14 14 | | | | | |
| | 21 36 | 149 27 | 20. | | 5 15 m. | | 1 | Amplit. | Idem. | N. 11. O. | 6 39 35 | | | | | |
| | 21 40 | 149 26 | | | 6 15 m. | | 6 | Azimut. | Idem. | N. 11. O. | 6 42 0 | 6 42 52 | 21 30 | 149 26 | | |
| | 21 40 | 149 26 | | | 6 15 m. | | 6 | Azimut. | Idem. | N. 11. O. | 6 47 0 | | | | | |
| | 22 5 | 149 22 | | | 5 20 s. | | 6 | Azimut. | Idem. | Est. | 5 28 8 | | | | | |
| | 22 5 | 149 22 | | | 5 20 s. | | 6 | Azimut. | Idem. | Est. | 5 24 18 | 5 16 10 | 22 5 | 149 22 | | |
| | 22 5 | 149 22 | | | 5 20 s. | | 1 | Amplit. | Idem. | Est. | 4 56 5 | | | | | |
| | 21 43 | 151 20 | 21. | | 5 30 s. | | 6 | Azimut. | Idem. | E. 22°.S. | 4 17 38 | | | | | |
| | 21 43 | 151 20 | | | 5 30 s. | | 6 | Azimut. | Idem. | E. 22. S. | 5 11 30 | 4 44 34 | 21 43 | 151 20 | | |
| | 21 39 | 151 18 | 22. | | 6 45 m. | | 6 | Azimut. | Idem. | N. 22°30' O. | 7 8 6 | 7 19 18 | 21 30 | 151 18 | | |
| | 21 39 | 151 18 | | | 6 45 m. | | 6 | Azimut. | Idem. | N. 22.30.O. | 7 24 48 | | | | | |
| | 21 39 | 151 18 | | | 6 45 m. | R. | 6 | Azimut. | Idem. | N. 22.30.O. | 7 25 0 | | | | | |
| | 22 23 | 151 4 | | | 5 0 s. | Lm. | 6 | Azimut. | Idem. | Nord. | 5 25 6 | 6 26 50 | ..... | ..... |  |  |
| | 22 23 | 151 4 | | | 5 0 s. | | 5 | Azimut. | Idem. | Nord. | 5 22 36 | 5 34 34 | 22 23 | 151 4 | | |
| | 22 23 | 151 4 | | | 5 15 s. | R. | 6 | Azimut. | Idem. | N. 11°.E. | 5 56 0 | | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|---|---------------|-----------|-----------------------|---------------------|---------------------------|-------------------------------|----------------------|--|------------------------|--|---------------------------|-----------|------------|--|--|--|
| | GÉOGRAPHIQUE. | | DATE. | HEURE. | OBSER- VATR. TEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | POSITION géographique. | | | | | |
| | Latitude | Longitude | | | | | | | | | Latitudo. | Longitude | | | | |
| Suite. Traversée de l'île Guam aux îles Sandwich. | N. | E. P. | 1819. Juin. 23. | 6 ^h 5'm. | Lm. | 6 | Azimut. | Gaillard d'arr. sur l'avant du grand ca- bestan. | Est. | 5°45'24" | | | | | | |
| | 22°59' | 151°17' | | 6 5 m. | | 6 | Azimut. | <i>Idem.</i> | Est. | 5 48 20 | 5°40'26" | 22° 59' | 151°17' | | | |
| | 22 59 | 151 17 | | 6 5 m. | B. | 4 | Azimut. | Gaillard d'arrière. | Est. | 5 34 0 | | | | | | |
| | 22 59 | 151 17 | | 6 5 m. | | 4 | Azimut. | <i>Idem.</i> | Est. | 5 34 0 | | | | | | |
| | 23 16 | 152 9 | | 5 20 s. | | 4 | Azimut. | <i>Idem.</i> | E. 24°.N. | 5 19 0 | | | | | | |
| | 23 16 | 152 9 | | 5 20 s. | | 4 | Azimut. | <i>Idem.</i> | E. 24. N. | 5 12 0 | | | | | | |
| | 23 16 | 152 10 | | 5 30 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 24. N. | 6 47 50 | 6 3 2 | 23 17 | 152 11 | | | |
| | 23 16 | 152 10 | | 5 30 s. | | 6 | Azimut. | <i>Idem.</i> | E. 24. N. | 6 46 30 | | | | | | |
| | 23 19 | 152 18 | | 6 40 s. | | 1 | Amplit. | <i>Idem.</i> | E. 24. N. | 6 9 50 | | | | | | |
| | 23 49 | 153 13 | 24. | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | N. 45. E. | 7 26 30 | | | | | | |
| | 23 49 | 153 13 | | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | N. 45. E. | 7 57 10 | 7 4 42 | 23 49 | 153 13 | | | |
| | 23 49 | 153 13 | | 7 0 m. | | 1 | Amplit. | <i>Idem.</i> | E. 24. N. | 5 50 25 | | | | | | |
| | 24 3 | 154 9 | 25. | 6 40 m. | | 6 | Azimut. | <i>Idem.</i> | Est. | 7 42 16 | | | | | | |
| | 24 3 | 154 9 | | 6 40 m. | | 6 | Azimut. | <i>Idem.</i> | Est. | 7 19 38 | 7 30 57 | 24 3 | 154 9 | | | |
| | 24 7 | 154 36 | | 5 0 s. | Fb. | 6 | Azimut. | <i>Idem.</i> | E. 24. N. | 4 39 0 | | | | | | |
| | 24 7 | 154 37 | | 5 15 s. | Lm. | 5 | Azimut. | <i>Idem.</i> | E. 24. N. | 6 8 20 | 5 34 10 | 24 7 | 154 37 | | | |
| | 24 7 | 154 37 | | 5 15 s. | | 6 | Azimut. | <i>Idem.</i> | E. 24. N. | 5 55 10 | | | | | | |
| | 24 5 | 154 58 | 26. | 4 55 m. | | 1 | Amplit. | <i>Idem.</i> | E. 24. N. | 7 11 52 | | | | | | |
| | 24 5 | 154 59 | | 5 50 m. | | 6 | Azimut. | <i>Idem.</i> | E. 5. N. | 7 18 40 | | | | | | |
| | 24 5 | 154 59 | | 5 50 m. | | 6 | Azimut. | <i>Idem.</i> | E. 5. N. | 7 20 0 | 7 8 35 | 24 5 | 154 59 | | | |
| | 24 5 | 154 59 | | 5 50 m. | G. | 7 | Azimut. | <i>Idem.</i> | E. 5. N. | 6 43 47 | | | | | | |
| | 24 6 | 155 20 | | 5 45 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 24. N. | 5 51 10 | | | | | | |
| | 24 6 | 155 20 | | 5 45 s. | | 6 | Azimut. | <i>Idem.</i> | E. 24. N. | 6 0 52 | 5 57 26 | 24 6 | 155 20 | | | |
| | 24 6 | 155 20 | | 5 45 s. | | 6 | Azimut. | <i>Idem.</i> | E. 24. N. | 6 0 15 | | | | | | |
| | 24 3 | 155 27 | 27. | 5 45 s. | R. | 4 | Azimut. | <i>Idem.</i> | Calme. | 6 8 0 | 6 5 30 | 24 3 | 155 27 | | | |
| | 24 3 | 155 27 | | 5 45 s. | | 4 | Azimut. | <i>Idem.</i> | Calme. | 6 3 0 | | | | | | |
| | 24 3 | 155 40 | 28. | 5 15 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | N. 22. O. | 5 26 56 | | | | | | |
| | 24 3 | 155 40 | | 5 15 s. | | 6 | Azimut. | <i>Idem.</i> | N. 22. O. | 5 21 50 | | | | | | |
| | 24 3 | 155 40 | | 5 20 s. | B. | 4 | Azimut. | <i>Idem.</i> | N. 22. O. | 5 33 45 | 5 30 29 | 24 4 | 155 40 | | | |
| | 24 3 | 155 40 | | 5 20 s. | | 4 | Azimut. | <i>Idem.</i> | N. 22. O. | 5 28 55 | | | | | | |
| | 24 8 | 155 40 | | 6 40 s. | | 1 | Amplit. | <i>Idem.</i> | N. 22. O. | 5 41 0 | | | | | | |

VOYAGE AUTOUR DU MONDE.

| PARAGE où se trouvant le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|--|---------------------------|-----------|----------|-------------------|---------------|---------------------|-----------|--|------------------------|--|---------------------------|----------|------------|---------|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- | NOMBRE | MÉTHODE | PARTIE | | | Position géographique. | Latitude | Longitude | | |
| | | | | | VA- TEURS. | d'expé- riences. | employée. | où se faisait l'ex- périence. | | | | | | | |
| Suite. | N. | E. P. | 1819. | | | | | | | | N. E. | N. E. | N. | E. P. | |
| Traversée de l'île Guam aux îles Sandwich. | 24°36' | 155°47' | Juin. | 29. | 5° 5'm. | Lm. | 1 | Amplit. | Gaillard d'arrière. | N. 15°.E. | 7°41'55" | | | | |
| | 24 38 | 155 47 | | | 6 15 m. | | 6 | Azimut. | Idem. | N. 16. E. | 7 4 54 | | | | |
| | 24 38 | 155 47 | | | 6 15 m. | | 6 | Azimut. | Idem. | N. 16. E. | 6 34 50 | 7°16' 8 | 24° 38' | 155°47' | |
| | 24 38 | 155 47 | | | 6 15 m. | Db. | 4 | Azimut. | Idem. | N. 16. E. | 7 19 0 | | | | |
| | 24 38 | 155 47 | | | 6 15 m. | | 5 | Azimut. | Idem. | N. 16. E. | 7 40 0 | | | | |
| | 24 51 | 155 54 | | | 5 15 s. | Lm. | 6 | Azimut. | Idem. | Nord. | 5 1 10 | 5 1 45 | 24 51 | 155 54 | |
| | 24 51 | 155 54 | | | 5 15 s. | | 6 | Azimut. | Idem. | Nord. | 5 2 20 | | | | |
| | 25 18 | 156 17 | 30. | | 6 30 m. | Fb. | 6 | Azimut. | Idem. | N. 22. E. | 7 43 45 | | | | |
| | 25 18 | 156 17 | | | 6 30 m. | Lm. | 6 | Azimut. | Idem. | N. 41. E. | 7 7 26 | 7 16 25 | 25 18 | 156 17 | |
| | 25 18 | 156 17 | | | 6 30 m. | | 6 | Azimut. | Idem. | N. 41. E. | 6 58 4 | | | | |
| | 25 31 | 156 22 | | | 5 30 s. | | 6 | Azimut. | Idem. | N. 41. E. | 5 25 50 | 5 15 40 | 25 31 | 156 22 | |
| | 25 31 | 156 22 | | | 5 30 s. | | 6 | Azimut. | Idem. | N. 41. E. | 5 5 30 | | | | |
| | 25 59 | 156 28 | Juillet. | 1 ^{er} . | 6 0 m. | G. | 7 | Azimut. | Idem. | N. 45. E. | 7 29 57 | | | | |
| | 25 59 | 156 29 | | | 6 10 m. | Lm. | 5 | Azimut. | Idem. | N. 45. E. | 8 23 34 | 7 54 44 | 25 59 | 156 29 | |
| | 25 59 | 156 29 | | | 6 10 m. | | 5 | Azimut. | Idem. | N. 45. E. | 7 50 40 | | | | |
| | 26 26 | 156 58 | | | 5 15 s. | | 5 | Azimut. | Idem. | N. 33. E. | 7 17 18 | | | | |
| | 26 26 | 156 58 | | | 5 15 s. | | 6 | Azimut. | Idem. | N. 33. E. | 6 0 34 | 6 50 37 | 26 26 | 156 58 | |
| | 26 27 | 156 59 | | | 5 30 s. | G. | 6 | Azimut. | Idem. | N. 33. E. | 7 14 0 | | | | |
| | 26 59 | 157 30 | 2. | | 6 0 m. | Lm. | 5 | Azimut. | Idem. | N. 33. E. | 8 4 40 | | | | |
| | 26 59 | 157 30 | | | 6 0 m. | | 5 | Azimut. | Idem. | N. 33. E. | 8 4 10 | 7 13 57 | 26 59 | 157 30 | |
| | 27 0 | 157 31 | | | 6 20 m. | R. | 6 | Azimut. | Idem. | N. 45. E. | 5 33 0 | | | | |
| | 27 42 | 158 7 | | | 5 30 s. | Lm. | 12 | Azimut. | Idem. | N. 33. E. | 7 53 0 | | | | |
| | 27 42 | 158 7 | | | 5 30 s. | | 12 | Azimut. | Idem. | N. 33. E. | 7 25 14 | | | | |
| | 27 42 | 158 7 | | | 5 30 s. | | 12 | Azimut. | Idem. | N. 33. E. | 7 42 0 | 7 42 24 | 27 44 | 158 32 | |
| | 27 47 | 158 11 | | | 6 55 s. | | 1 | Amplit. | Idem. | N. 33. E. | 7 49 24 | | | | |
| | 28 29 | 158 41 | | | 5 3 m. | | 1 | Amplit. | Idem. | N. 33. E. | 9 0 5 | | | | |
| | 28 34 | 158 45 | 3. | | 6 15 m. | | 10 | Azimut. | Idem. | N. 22. E. | 7 46 24 | | | | |
| | 28 34 | 158 45 | | | 6 15 m. | | 10 | Azimut. | Idem. | N. 22. E. | 7 44 0 | 7 57 25 | 28 33 | 158 44 | |
| | 28 36 | 158 47 | | | 6 40 m. | B. | 12 | Azimut. | Idem. | N. 22. E. | 7 1910 | | | | |
| | 29 21 | 159 17 | | | 5 30 s. | Lm. | 10 | Azimut. | Idem. | N. 33. E. | 7 12 36 | | | | |
| | 29 21 | 159 17 | | | 5 36 s. | | 10 | Azimut. | Idem. | N. 33. E. | 6 46 48 | | | | |
| | 29 21 | 159 17 | | | 5 36 s. | | 12 | Azimut. | Idem. | N. 33. E. | 7 21 0 | 7 23 10 | 29 22 | 159 18 | |
| | 29 27 | 159 22 | | | 7 3 s. | | 1 | Amplit. | Idem. | N. 33. E. | 8 12 16 | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | |
|---|---------------------------|-----------|---------|---------------------|-------------------|-------------------------------|----------------------|------------------------|--|--------------------------------|---------------------------|------------|--|
| | | | DATE. | HEURE. | OBSER- VATRUE. | NOMBRE d'expé- riences. | MÉTHODE employée. | | | DÉCLINAISON SON conclue. | POSITION géographique. | | |
| | Latitude | Longitude | | | | | | | | Latitude | Longitude | | |
| Suite. Traversée de l'île Guam aux îles Sandwich. | N. | E. P. | 1819. | Juillet. | | | | | N. E. | N. E. | Nord. | E. P. | |
| | 30° 2' | 159°50' | 4. | 5 ^h 0'm. | Lm. | 1 | Amplit. | G. d'arr. | N. 22° E. | 8°37'36" | | | |
| | 30 2 | 159 50 | | 5 0 m. | | 12 | Azimut. | Idem. | N. 22. E. | 8 11 25 | | | |
| | 30 2 | 159 50 | | 5 0 m. | | 12 | Azimut. | Idem. | N. 22. E. | 8 14 45 | 8°21'21" | 30° 2' | |
| | 30 2 | 159 50 | | 5 0 m. | Db. | 11 | Azimut. | Idem. | N. 33. E. | 8 21 40 | | | |
| | 30 50 | 160 31 | | 6 0 s. | Lm. | 8 | Azimut. | Idem. | N. 11. E. | 7 30 9 | | | |
| | 30 50 | 160 31 | | 6 0 s. | | 8 | Azimut. | Idem. | N. 11. E. | 7 34 37 | 7 34 56 | 30 50 | |
| | 30 50 | 160 31 | | 6 0 s. | | 1 | Amplit. | Idem. | N. 11. E. | 7 40 3 | | | |
| | 31 24 | 160 45 | 5. | 4 54 m. | | 1 | Amplit. | Idem. | N. 11. E. | 8 6 45 | | | |
| | 31 28 | 160 47 | | 6 15 m. | | 10 | Azimut. | Idem. | N. 11. E. | 7 53 4 | | | |
| | 31 29 | 160 47 | | 6 30 m. | | 10 | Azimut. | Idem. | N. 11. E. | 7 29 16 | 7 39 2 | 31 27 | |
| | 31 29 | 160 47 | | 6 30 m. | Fb. | 12 | Azimut. | Idem. | N. 11. E. | 7 7 5 | | | |
| | 32 10 | 160 48 | | 5 55 s. | Lm. | 8 | Azimut. | Idem. | Nord. | 7 29 23 | | | |
| | 32 10 | 160 48 | | 5 55 s. | | 10 | Azimut. | Idem. | Nord. | 7 13 17 | 7 33 13 | 32 11 | |
| | 32 12 | 160 47 | | 7 0 s. | | 1 | Amplit. | Idem. | Nord. | 7 57 0 | | | |
| | 32 28 | 160 41 | 6. | 6 36 m. | | 10 | Azimut. | Idem. | S. 22. E. | 7 0 52 | | | |
| | 32 28 | 160 41 | | 6 36 m. | | 10 | Azimut. | Idem. | S. 22. E. | 7 1 50 | 7 28 20 | 32 28 | |
| | 32 28 | 160 41 | | 6 36 m. | G. | 9 | Azimut. | Idem. | S. 22. E. | 8 22 19 | | | |
| | 32 58 | 160 34 | | 5 40 s. | Lm. | 8 | Azimut. | Idem. | Nord. | 6 58 51 | | | |
| | 32 58 | 160 34 | | 5 40 s. | | 8 | Azimut. | Idem. | Nord. | 7 18 9 | 7 54 1 | 32 58 | |
| | 32 58 | 160 34 | | 5 43 s. | G. | 12 | Azimut. | Idem. | N. 5. O. | 7 0 2 | | | |
| | 33 22 | 160 29 | 7. | 6 0 m. | Lm. | 9 | Azimut. | Idem. | Nord. | 8 2 45 | | | |
| | 33 22 | 160 29 | | 6 0 m. | | 10 | Azimut. | Idem. | Nord. | 8 7 45 | 7 56 50 | 33 22 | |
| | 33 22 | 160 29 | | 6 0 m. | | 12 | Azimut. | Idem. | N. 5. E. | 2 40 0 | | | |
| | 33 39 | 160 32 | | 5 55 s. | | 10 | Azimut. | Idem. | N. 45. E. | 7 51 1 | | | |
| | 33 39 | 160 32 | | 5 55 s. | | 6 | Azimut. | Idem. | N. 45. E. | 7 31 8 | 7 12 3 | 33 39 | |
| | 33 39 | 160 32 | | 5 55 s. | R. | 12 | Azimut. | Idem. | N. 45. E. | 6 14 0 | | | |
| | 34 2 | 161 6 | 8. | 4 35 m. | Lm. | 1 | Amplit. | Dunette | N. 45. E. | 7 23 22 | | | |
| | 35 31 | 162 45 | 9. | 5 40 s. | | 12 | Azimut. | G. d'arr. | E. 40. N. | 9 15 23 | | | |
| | 35 31 | 162 45 | | 5 45 s. | | 9 | Azimut. | Idem. | E. 40. N. | 9 12 30 | 8 56 18 | 35 32 | |
| | 35 34 | 162 47 | | 6 30 s. | Db. | 1 | Amplit. | Idem. | N. 45. E. | 8 21 0 | | | |
| | 37 3 | 163 56 | 10. | 5 0 s. | Fb. | 10 | Azimut. | Idem. | N. 45. E. | 9 23 40 | 9 12 30 | 37 7 | |
| | 37 12 | 164 11 | | 7 15 s. | | 1 | Amplit. | Idem. | N. 45. E. | 9 1 20 | | | |
| | 37 34 | 165 34 | 11. | 6 50 m. | Lm. | 6 | Azimut. | Idem. | E. 34. N. | 9 43 40 | | | |
| | 37 34 | 165 36 | | 7 0 m. | | 8 | Azimut. | Idem. | E. 34. N. | 9 28 28 | 9 33 29 | 37 34 | |
| | 37 34 | 165 36 | | 7 0 m. | G. | 9 | Azimut. | Idem. | E. 34. N. | 9 28 18 | | | |

VOYAGE AUTOUR DU MONDE.

| PARAGE où se trouvait le vaisseau. | POSITION | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|---|---------------|---------------|--------------------------|---------|-------------------|-------------------------------|----------------------|--|--|------------------------------|---------------------------|------------|---------|--|
| | GÉOGRAPHIQUE. | | DATE. | HEURE. | OBSER- VATRUS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | DÉCLINAI- SON conclue. | POSITION géographique. | | | |
| | Latitude | Longitude | | | | | | | | | Latitude | Longitude | | |
| Suite. Traversée de l'île Guam aux îles Sandwich. | N. 38°19' | E. P. 168°30' | 1819. Juillet. 12. | 5°15's. | Lm. | 8 | Azimut. | G. d'arr. | N. E. | N. E. | Nord. | E. P. | | |
| | 38 19 | 168 39 | | 5 15 s. | | 8 | Azimut. | Idem. | E. 24. N. | 12°14'51" | | | | |
| | 38 19 | 168 39 | | 5 15 s. | R. | 12 | Azimut. | Idem. | E. 24. N. | 11 18 20 | 11°35' 4" | 38° 19' | 168°39' | |
| | 38 33 | 169 27 | 13. | 6 15 m. | Lm. | 6 | Azimut. | Idem. | E. 34. N. | 10 49 5 | | | | |
| | 38 33 | 169 27 | | 6 15 m. | | 9 | Azimut. | Idem. | E. 34. N. | 10 24 46 | 10 15 35 | 38 33 | 169 27 | |
| | 38 33 | 169 27 | | 6 15 m. | B. | 12 | Azimut. | Idem. | E. 34. N. | 9 32 55 | | | | |
| | 38 40 | 170 10 | | 6.30 s. | Db. | 12 | Azimut. | Idem. | E. 34. N. | 10 52 0 | | | | |
| | 38 48 | 171 15 | 14. | 6 10 m. | Lm. | 7 | Azimut. | Idem. | E. 11. N. | 9 33 38 | | | | |
| | 38 48 | 171 15 | | 6 10 m. | | 7 | Azimut. | Idem. | E. 11. N. | 9 0 22 | 9 33 40 | 38 48 | 171 15 | |
| | 38 48 | 171 15 | | 6 10 m. | Db. | 11 | Azimut. | Idem. | E. 11. N. | 10 7 0 | | | | |
| | 38 56 | 175 8 | 15. | 4 39 s. | Fb. | 12 | Azimut. | Idem. | E. 11. N. | 11 3 40 | | | | |
| | 38 51 | 176 7 | 16. | 4 40 m. | Lm. | 1 | Amplit. | Idem. | E. 11. S. | 12 47 22 | | | | |
| | 41 4 | 183 20 | 19. | 4 0 s. | | 7 | Azimut. | Idem. | E. 11. N. | 15 23 42 | | | | |
| | 41 4 | 183 20 | | 4 0 s. | | 5 | Azimut. | Idem. | E. 11. N. | 15 15 0 | 15 19 21 | 41 4 | 183 20 | |
| | 41 3 | 188 11 | 20. | 9 0 m. | Fb. | 10 | Azimut. | Idem. | E. 11. N. | 12 56 10 | | | | |
| | 40 30 | 191 52 | 21. | 9 10 m. | Lm. | 10 | Azimut. | Idem. | E. 11. N. | 16 52 10 | | | | |
| | 40 29 | 191 55 | | 9 30 m. | G. | 7 | Azimut. | Idem. | E. 11. N. | 16 45 12 | 16 48 41 | 40 20 | 191 53 | |
| | 40 9 | 192 58 | | 5 28 s. | | 8 | Azimut. | Idem. | E. 22. S. | 13 4 4 | | | | |
| | 40 9 | 192 58 | | 5 30 s. | Lm. | 4 | Azimut. | Idem. | E. 22. S. | 15 24 30 | | | | |
| | 40 9 | 192 58 | | 5 20 s. | | 5 | Azimut. | Idem. | E. 22. S. | 14 53 40 | 14 32 7 | 40 8 | 193 1 | |
| | 40 4 | 193 10 | | 7 10 s. | G. | 10 | Azimut. | Idem. | E. 22. S. | 14 46 13 | | | | |
| | 39 31 | 194 21 | 22. | 6 15 m. | Lm. | 5 | Azimut. | Idem. | E. 22. S. | 15 1 20 | | | | |
| | 39 31 | 194 21 | | 6 15 m. | | 5 | Azimut. | Idem. | E. 22. S. | 15 2 44 | 15 8 21 | 39 31 | 194 21 | |
| | 39 31 | 194 21 | | 6 15 m. | R. | 12 | Azimut. | Idem. | E. 22. S. | 15 21 0 | | | | |
| | 39 3 | 195 26 | | 5 40 s. | | 12 | Azimut. | Idem. | E. 22. S. | 14 37 0 | | | | |
| | 39 3 | 195 26 | | 5 40 s. | Lm. | 6 | Azimut. | Idem. | E. 22. S. | 14 58 4 | 14 52 1 | 39 2 | 195 27 | |
| | 39 1 | 195 29 | | 6 10 s. | | 8 | Azimut. | Idem. | E. 22. S. | 15 1 0 | | | | |
| | 38 19 | 196 48 | 23. | 6 5 m. | | 7 | Azimut. | Idem. | E. 33. S. | 13 58 32 | | | | |
| | 38 19 | 196 48 | | 6 5 m. | | 9 | Azimut. | Idem. | E. 33. S. | 14 3 27 | 13 55 23 | 38 19 | 196 48 | |
| | 38 19 | 196 48 | | 6 5 m. | B. | 12 | Azimut. | Idem. | E. 33. S. | 13 44 10 | | | | |
| | 37 55 | 197 46 | | 5 30 s. | Lm. | 6 | Azimut. | Idem. | E. 22. N. | 13 53 14 | | | | |
| | 37 55 | 197 46 | | 5 35 s. | | 9 | Azimut. | Idem. | E. 22. S. | 14 2 3 | 13 52 56 | 37 55 | 197 46 | |
| | 37 55 | 197 46 | | 5 35 s. | B. | 12 | Azimut. | Idem. | E. 22. S. | 13 43 30 | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|---|---------------------------|-----------|---------|----------|----------------|-------------------------------|----------------------|------------------------|--|---------------------------|------------|------------|-----------|---------|---------|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- | NOMBRE d'expé- riences. | MÉTHODE employée. | | | POSITION géographique. | Latitude | Longitude | | | |
| | | | | | VATUR. | | | | | | | | | | |
| Suite. Traversée de l'île Guam aux îles Sandwich. | Nord. | E. P. | 1819. | Juillet. | 6 ^h | m. | Db. | 1 | Amplit. | Gaillard d'arrière. | E. 22°. S. | 14°29' 0" | N. E. | N. | E. P. |
| | 37°55' | 198°19' | 24. | | 6 | m. | Lm. | 8 | Azimut. | Idem. | E. 22. S. | 14 21 46 | | | |
| | 37 55 | 198 19 | | | 6 | m. | | 10 | Azimut. | Idem. | E. 22. S. | 14 5 50 | 14°18'24" | 37° 55' | 198°19' |
| | 37 55 | 198 19 | | | 6 | m. | Db. | 12 | Azimut. | Idem. | E. 22. S. | 14 17 0 | | | |
| | 37 52 | 198 48 | | | 5 25 | s. | Lm. | 9 | Azimut. | Idem. | E. 23. N. | 14 36 47 | | | |
| | 37 52 | 198 45 | | | 5 25 | s. | | 9 | Azimut. | Idem. | E. 23. N. | 14 38 2 | 14 37 24 | 37 52 | 198 45 |
| | 37 50 | 199 23 | 25. | | 6 55 | m. | Fb. | 12 | Azimut. | Idem. | E. 34. N. | 15 1 55 | | | |
| | 37 52 | 200 11 | | | 5 30 | s. | | 12 | Azimut. | Idem. | E. 34. N. | 14 43 21 | | | |
| | 37 53 | 200 19 | | | 7 20 | s. | | 1 | Amplit. | Idem. | E. 11. N. | 14 50 0 | 14 46 40 | 37 52 | 200 15 |
| | 37 53 | 201 0 | 26. | | 6 10 | m. | | 6 | Azimut. | Idem. | E. 42. N. | 15 50 45 | | | |
| | 37 53 | 201 0 | | | 6 10 | m. | * | 10 | Azimut. | Idem. | E. 42. N. | 16 0 15 | 15 39 48 | 37 53 | 201 0 |
| | 37 53 | 201 0 | | | 6 10 | m. | G. | 12 | Azimut. | Idem. | N. 45. E. | 16 50 20 | | | |
| | 37 53 | 201 0 | | | 6 10 | m. | | 9 | Azimut. | Idem. | N. 45. E. | 13 57 53 | | | |
| | 37 55 | 201 27 | 27. | | 5 45 | m. | R. | 12 | Azimut. | Idem. | E. 22. S. | 15 11 0 | | | |
| | 37 55 | 201 27 | | | 5 45 | m. | Lm. | 6 | Azimut. | Idem. | E. 15. S. | 13 56 20 | 14 16 41 | 37 55 | 201 27 |
| | 37 55 | 201 27 | | | 5 45 | m. | | 7 | Azimut. | Idem. | E. 22. S. | 13 42 44 | | | |
| | 37 54 | 201 25 | | | 4 35 | s. | R. | 12 | Azimut. | Idem. | S. 22. E. | 14 37 0 | | | |
| | 37 52 | 201 25 | | | 5 15 | s. | Lm. | 7 | Azimut. | Idem. | S. 22. E. | 13 52 37 | 14 6 6 | 39 53 | 201 25 |
| | 37 52 | 201 25 | | | 5 15 | s. | | 6 | Azimut. | Idem. | S. 22. E. | 13 48 42 | | | |
| | 37 11 | 201 29 | 28. | | 6 30 | m. | | 8 | Azimut. | Idem. | S. 22. E. | 13 57 47 | | | |
| | 37 11 | 201 29 | | | 6 30 | m. | | 8 | Azimut. | Idem. | S. 22. E. | 13 52 4 | | | |
| | 37 11 | 201 29 | | | 6 30 | m. | B. | 4 | Azimut. | Idem. | S. 22. E. | 13 58 55 | 13 56 4 | 37 11 | 201 29 |
| | 37 11 | 201 29 | | | 6 30 | m. | | 12 | Azimut. | Idem. | S. 22. E. | 13 55 30 | | | |
| | 36 13 | 201 51 | | | 5 50 | s. | Lm. | 8 | Azimut. | Idem. | S. 45. E. | 13 37 36 | | | |
| | 36 13 | 201 51 | | | 5 50 | s. | | 4 | Azimut. | Idem. | S. 45. E. | 12 59 0 | 13 18 18 | 36 13 | 201 51 |
| | 35 0 | 202 44 | 29. | | 6 35 | m. | | 8 | Azimut. | Idem. | S. 45. E. | 14 19 57 | | | |
| | 35 0 | 202 44 | | | 6 35 | m. | | 5 | Azimut. | Idem. | S. 45. E. | 14 11 50 | 14 15 53 | 35 0 | 202 44 |
| | 34 7 | 203 0 | 30. | | 6 15 | m. | | 6 | Azimut. | Idem. | S. 34. E. | 13 12 20 | | | |
| | 33 7 | 203 0 | | | 6 15 | m. | | 6 | Azimut. | Idem. | S. 34. E. | 12 30 53 | 13 2 4 | 33 7 | 203 0 |
| | 33 6 | 203 0 | | | 6 30 | m. | Fb. | 9 | Azimut. | Idem. | S. 33. E. | 13 23 0 | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP de VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|---|---------------------------|-----------|-------------------|----------------------|-------------------|-------------------------------|----------------------|--|--|--------------------------------|---------------------------|------------|---------|--|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATRUS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | DÉCLINAISON SON conclue. | POSITION géographique. | | | | |
| | | | | | | | | | | Latitude | Longitude | | | | |
| Suite. Traversée de l'île Guam aux îles Sandwich. | N. | E. P. | 1819. Juillet. | | | | | | | N. E. | N. E. | Nord. | E. P. | | |
| | 38°19' | 168°30' | 12. | 5 ^h 15's. | Lm. | 8 | Azimut. | G. d'arr. | E. 24°.N. | 12°14'31" | | | | | |
| | 38 19 | 168 39 | | 5 15 s. | | 8 | Azimut. | Idem. | E. 24. N. | 11 18 20 | 11°35' 4" | 38° 19' | 168°39' | | |
| | 38 19 | 168 39 | | 5 15 s. | R. | 12 | Azimut. | Idem. | E. 24. N. | 11 12 0 | | | | | |
| | 38 33 | 169 27 | 13. | 6 15 m. | Lm. | 6 | Azimut. | Idem. | E. 34. N. | 10 49 5 | | | | | |
| | 38 33 | 169 27 | | 6 15 m. | | 9 | Azimut. | Idem. | E. 34. N. | 10 24 46 | 10 15 35 | 38 33 | 169 27 | | |
| | 38 33 | 169 27 | | 6 15 m. | B. | 12 | Azimut. | Idem. | E. 34. N. | 9 32 55 | | | | | |
| | 38 40 | 170 10 | | 6.30 s. | Db. | 12 | Azimut. | Idem. | E. 34. N. | 10 52 0 | | | | | |
| | 38 48 | 171 15 | 14. | 6 10 m. | Lm. | 7 | Azimut. | Idem. | E. 11. N. | 9 33 38 | | | | | |
| | 38 48 | 171 15 | | 6 10 m. | | 7 | Azimut. | Idem. | E. 11. N. | 9 0 22 | 9 33 40 | 38 48 | 171 15 | | |
| | 38 48 | 171 15 | | 6 10 m. | Db. | 11 | Azimut. | Idem. | E. 11. N. | 10 7 0 | | | | | |
| | 38 56 | 175 8 | 15. | 4 30 s. | Fb. | 12 | Azimut. | Idem. | E. 11. N. | 11 3 40 | | | | | |
| | 38 51 | 176 7 | 16. | 4 40 m. | Lm. | 1 | Amplit. | Idem. | E. 11. S. | 12 47 22 | | | | | |
| | 41 4 | 183 20 | 19. | 4 0 s. | | 7 | Azimut. | Idem. | E. 11. N. | 15 23 42 | | | | | |
| | 41 4 | 183 20 | | 4 0 s. | | 5 | Azimut. | Idem. | E. 11. N. | 15 15 0 | 15 19 21 | 41 4 | 183 20 | | |
| | 41 3 | 188 11 | 20. | 9 0 m. | Fb. | 10 | Azimut. | Idem. | E. 11. N. | 12 56 10 | | | | | |
| | 40 30 | 191 52 | 21. | 9 10 m. | Lm. | 10 | Azimut. | Idem. | E. 11. N. | 16 52 10 | | | | | |
| | 40 29 | 191 55 | | 9 30 m. | G. | 7 | Azimut. | Idem. | E. 11. N. | 16 45 12 | 16 48 41 | 40 20 | 191 53 | | |
| | 40 9 | 192 58 | | 5 28 s. | | 8 | Azimut. | Idem. | E. 22. S. | 13 4 4 | | | | | |
| | 40 9 | 192 58 | | 5 30 s. | Lm. | 4 | Azimut. | Idem. | E. 22. S. | 15 24 30 | | | | | |
| | 40 9 | 192 58 | | 5 20 s. | | 5 | Azimut. | Idem. | E. 22. S. | 14 53 40 | 14 32 7 | 40 8 | 193 1 | | |
| | 40 4 | 193 10 | | 7 10 s. | G. | 10 | Azimut. | Idem. | E. 22. S. | 14 46 13 | | | | | |
| | 39 31 | 194 21 | 22. | 6 15 m. | Lm. | 5 | Azimut. | Idem. | E. 22. S. | 15 1 20 | | | | | |
| | 39 31 | 194 21 | | 6 15 m. | | 5 | Azimut. | Idem. | E. 22. S. | 15 2 44 | 15 8 21 | 39 31 | 194 21 | | |
| | 39 31 | 194 21 | | 6 15 m. | R. | 12 | Azimut. | Idem. | E. 22. S. | 15 21 0 | | | | | |
| | 39 3 | 195 26 | | 5 40 s. | | 12 | Azimut. | Idem. | E. 22. S. | 14 37 0 | | | | | |
| | 39 3 | 195 26 | | 5 40 s. | Lm. | 6 | Azimut. | Idem. | E. 22. S. | 14 58 4 | 14 52 1 | 39 2 | 195 27 | | |
| | 39 1 | 195 29 | | 6 10 s. | | 8 | Azimut. | Idem. | E. 22. S. | 15 1 0 | | | | | |
| | 38 19 | 196 48 | 23. | 6 5 m. | | 7 | Azimut. | Idem. | E. 33. S. | 13 58 32 | | | | | |
| | 38 19 | 196 48 | | 6 5 m. | | 9 | Azimut. | Idem. | E. 33. S. | 14 3 27 | 13 55 23 | 38 19 | 196 48 | | |
| | 38 19 | 196 48 | | 6 5 m. | B. | 12 | Azimut. | Idem. | E. 33. S. | 13 44 10 | | | | | |
| | 37 55 | 197 46 | | 5 30 s. | Lm. | 6 | Azimut. | Idem. | E. 22. N. | 13 53 14 | | | | | |
| | 37 55 | 197 46 | | 5 35 s. | | 9 | Azimut. | Idem. | E. 22. S. | 14 2 3 | 13 52 56 | 37 55 | 197 46 | | |
| | 37 55 | 197 46 | | 5 35 s. | B. | 12 | Azimut. | Idem. | E. 22. S. | 13 43 30 | | | | | |

| PARAGE où se trouvait le vaisseau, | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|--------------------------|-------------------|--------|---------------------------------|-------------------------------|------------------------|--|--|-------------------|---------|------------|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATI- ON THURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | POSITION géographique. | | | | |
| | | | | | | | | | Latitude | Longitude | | | |
| <i>Suite. Traversée de l'île Guam aux îles Sandwich.</i> | | | | | | | | | | | | | |
| Nord. | E. P. | 1819. Juillet. 24. | 6 ^h m. | Db. | 1 | Amplit. | Gaillard d'arrière. | E. 22° S. | 14° 29' 0" | N. E. | N. | E. P. | |
| 37° 55' | 198° 19' | | 6 m. | Lm. | 8 | Azimut. | <i>Idem.</i> | E. 22. S. | 14 21 46 | | | | |
| 37 55 | 198 19 | | 6 m. | | 10 | Azimut. | <i>Idem.</i> | E. 22. S. | 14 5 50 | 14° 18' 24" | 37° 55' | 198° 19' | |
| 37 55 | 198 19 | | 6 m. | Db. | 12 | Azimut. | <i>Idem.</i> | E. 22. S. | 14 17 0 | | | | |
| 37 52 | 198 48 | | 5 25 s. | Lm. | 9 | Azimut. | <i>Idem.</i> | E. 23. N. | 14 36 47 | | | | |
| 37 52 | 198 45 | | 5 25 s. | | 9 | Azimut. | <i>Idem.</i> | E. 23. N. | 14 38 2 | 14 37 24 | 37 52 | 198 45 | |
| 37 50 | 199 23 | 25. | 6 55 m. | Fb. | 12 | Azimut. | <i>Idem.</i> | E. 34. N. | 15 1 55 | | | | |
| 37 52 | 200 11 | | 5 30 s. | | 12 | Azimut. | <i>Idem.</i> | E. 34. N. | 14 43 21 | | | | |
| 37 53 | 200 19 | | 7 20 s. | | 1 | Amplit. | <i>Idem.</i> | E. 11. N. | 14 50 0 | 14 46 40 | 37 52 | 200 15 | |
| 37 53 | 201 0 | 26. | 6 10 m. | | 6 | Azimut. | <i>Idem.</i> | E. 42. N. | 15 50 45 | | | | |
| 37 53 | 201 0 | | 6 10 m. | * | 10 | Azimut. | <i>Idem.</i> | E. 42. N. | 16 0 15 | 15 39 48 | 37 53 | 201 0 | |
| 37 53 | 201 0 | | 6 10 m. | G. | 12 | Azimut. | <i>Idem.</i> | N. 45. E. | 16 50 20 | | | | |
| 37 53 | 201 0 | | 6 10 m. | | 9 | Azimut. | <i>Idem.</i> | N. 45. E. | 13 57 53 | | | | |
| 37 55 | 201 27 | 27. | 5 45 m. | R. | 12 | Azimut. | <i>Idem.</i> | E. 22. S. | 15 11 0 | | | | |
| 37 55 | 201 27 | | 5 45 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | E. 15. S. | 13 56 20 | 14 16 41 | 37 55 | 201 27 | |
| 37 55 | 201 27 | | 5 45 m. | | 7 | Azimut. | <i>Idem.</i> | E. 22. S. | 13 42 44 | | | | |
| 37 54 | 201 25 | | 4 35 s. | R. | 12 | Azimut. | <i>Idem.</i> | S. 22. E. | 14 37 0 | | | | |
| 37 52 | 201 25 | | 5 15 s. | Lm. | 7 | Azimut. | <i>Idem.</i> | S. 22. E. | 13 52 37 | 14 6 6 | 39 53 | 201 25 | |
| 37 52 | 201 25 | | 5 15 s. | | 6 | Azimut. | <i>Idem.</i> | S. 22. E. | 13 48 42 | | | | |
| 37 11 | 201 29 | 28. | 6 30 m. | | 8 | Azimut. | <i>Idem.</i> | S. 22. E. | 13 57 47 | | | | |
| 37 11 | 201 29 | | 6 30 m. | | 8 | Azimut. | <i>Idem.</i> | S. 22. E. | 13 52 4 | 13 56 4 | 37 11 | 201 29 | |
| 37 11 | 201 29 | | 6 30 m. | B. | 4 | Azimut. | <i>Idem.</i> | S. 22. E. | 13 58 55 | | | | |
| 37 11 | 201 29 | | 6 30 m. | | 12 | Azimut. | <i>Idem.</i> | S. 22. E. | 13 55 30 | | | | |
| 36 13 | 201 51 | | 5 50 s. | Lm. | 8 | Azimut. | <i>Idem.</i> | S. 45. E. | 13 37 36 | 13 18 18 | 36 13 | 201 51 | |
| 36 13 | 201 51 | | 5 50 s. | | 4 | Azimut. | <i>Idem.</i> | S. 45. E. | 12 59 0 | | | | |
| 35 0 | 202 44 | 29. | 6 35 m. | | 8 | Azimut. | <i>Idem.</i> | S. 45. E. | 14 19 57 | 14 15 53 | 35 0 | 202 44 | |
| 35 0 | 202 44 | | 6 35 m. | | 5 | Azimut. | <i>Idem.</i> | S. 45. E. | 14 11 50 | | | | |
| 34 7 | 203 0 | 30. | 6 15 m. | | 6 | Azimut. | <i>Idem.</i> | S. 34. E. | 13 12 20 | | | | |
| 33 7 | 203 0 | | 6 15 m. | | 6 | Azimut. | <i>Idem.</i> | S. 34. E. | 12 30 53 | 13 2 4 | 33 7 | 203 0 | |
| 33 6 | 203 0 | | 6 30 m. | Fb. | 9 | Azimut. | <i>Idem.</i> | S. 33. E. | 13 23 0 | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | | |
|---|---------------------------|-----------|----------------------------|----------------------|--------------------|-------------------------------|----------------------|--|--|-------------------------|---------------------------|------------|--------|--|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | DÉCLINAISON conclue. | POSITION géographique. | | | | |
| | | | | | | | | | | Latitude | Longitude | | | | |
| Suite. Traversée de l'île Guam aux îles Sandwich. | Nord. | E. P. | 1819. Juillet. 30. | 6 ^h 15's. | Lm. | 8 | Azimut. | Geillard d'arrière. <i>Idem.</i> | S. 33° E. | N. E. | N. E. | N. | E. P. | | |
| | 31°57' | 203°17' | | 6 15 s. | | 10 | Azimut. | <i>Idem.</i> | S. 33. E. | 11 49 57 | | | | | |
| | 31 57 | 203 17 | | | | | | | | | | | | | |
| | 30 53 | 203 34 | 31. | 7 30 m. | G. | 7 | Azimut. | <i>Idem.</i> | S. 33. E. | 12 55 40 | | | | | |
| | 30 53 | 203 34 | | 7 30 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | S. 33. E. | 12 23 15 | 12 43 52 | 30 53 | 203 34 | | |
| | 30 53 | 203 34 | | | | 9 | Azimut. | <i>Idem.</i> | S. 33. E. | 12 52 40 | | | | | |
| | 29 55 | 203 49 | | 5 45 s. | | 7 | Azimut. | <i>Idem.</i> | S. 45. E. | 11 47 7 | | | | | |
| | 28 59 | 204 16 | Août. 1 ^{er} . | 5 m. | R. | 12 | Azimut. | <i>Idem.</i> | S. 45. E. | 11 21 0 | | | | | |
| | 28 59 | 204 16 | | 5 m. | Lm. | 9 | Azimut. | <i>Idem.</i> | S. 33. E. | 10 21 50 | 10 52 36 | 28 59 | 204 16 | | |
| | 28 59 | 204 16 | | | | 8 | Azimut. | <i>Idem.</i> | S. 33. E. | 10 54 57 | | | | | |
| | 27 50 | 204 27 | | 5 15 s. | R. | 6 | Azimut. | <i>Idem.</i> | S. 33. E. | 10 46 58 | | | | | |
| | 27 45 | 204 28 | | 6 s. | Lm. | 6 | Azimut. | <i>Idem.</i> | S. 34. E. | 10 37 15 | 10 38 53 | 27 47 | 204 28 | | |
| | 27 45 | 204 28 | | 6 s. | | 9 | Azimut. | <i>Idem.</i> | S. 34. E. | 10 32 27 | | | | | |
| | 26 29 | 204 50 | 2. | 7 5 m. | | 10 | Azimut. | <i>Idem.</i> | S. 34. E. | 10 46 45 | | | | | |
| | 26 29 | 204 50 | | 7 5 m. | | 12 | Azimut. | <i>Idem.</i> | S. 34. E. | 11 11 23 | 10 59 4 | 26 29 | 204 50 | | |
| | 25 27 | 205 8 | | 6 20 s. | B. | 12 | Azimut. | <i>Idem.</i> | S. 34. E. | 9 10 20 | | | | | |
| | 25 25 | 205 9 | | 6 40 s. | Lm. | 7 | Azimut. | <i>Idem.</i> | S. 34. E. | 9 16 49 | 9 21 9 | 25 26 | 205 9 | | |
| | 25 25 | 205 9 | | 6 40 s. | | 7 | Azimut. | <i>Idem.</i> | S. 34. E. | 9 36 17 | | | | | |
| | 24 7 | 205 33 | 3. | 8 m. | | 6 | Azimut. | <i>Idem.</i> | S. 34. E. | 10 40 21 | | | | | |
| | 24 7 | 205 33 | | 8 m. | | 7 | Azimut. | <i>Idem.</i> | S. 34. E. | 7 57 38 | 8 56 45 | 24 7 | 205 33 | | |
| | 24 7 | 205 33 | | 8 m. | Db. | 12 | Azimut. | <i>Idem.</i> | S. 34. E. | 8 12 15 | | | | | |
| | 21 38 | 205 19 | 4. | 6 30 m. | Lm. | 8 | Azimut. | <i>Idem.</i> | Sud. | 6 54 42 | | | | | |
| | 21 38 | 205 19 | | 6 30 m. | | 10 | Azimut. | <i>Idem.</i> | Sud. | 7 2 54 | | | | | |
| | 21 38 | 205 19 | | 6 30 m. | Fb. | 10 | Azimut. | <i>Idem.</i> | Sud. | 8 45 14 | 7 48 58 | 21 38 | 205 19 | | |
| | 21 38 | 205 19 | | 6 30 m. | | 10 | Azimut. | <i>Idem.</i> | Sud. | 8 33 2 | | | | | |
| | 20 44 | 204 49 | | 5 s. | | 11 | Azimut. | <i>Idem.</i> | S. 45. O. | 8 15 30 | | | | | |
| | 20 44 | 204 49 | | 5 s. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 45. O. | 8 55 35 | 8 39 35 | 20 44 | 204 48 | | |
| | 20 43 | 204 47 | | 5 20 s. | | 10 | Azimut. | <i>Idem.</i> | S. 45. O. | 8 47 40 | | | | | |
| | 20 6 | 203 27 | 5. | 7 45 m. | | 10 | Azimut. | <i>Idem.</i> | O. 34. S. | 7 31 30 | | | | | |
| | 20 6 | 203 27 | | 7 45 m. | | 10 | Azimut. | <i>Idem.</i> | S. 34. O. | 7 46 5 | 7 38 47 | 20 6 | 203 27 | | |
| | 18 56 | 202 21 | 6. | 7 10 m. | R. | 6 | Azimut. | <i>Idem.</i> | S. 45. O. | 6 37 0 | | | | | |
| | 18 56 | 202 21 | | 7 10 m. | Lm. | 8 | Azimut. | <i>Idem.</i> | S. 45. O. | 9 53 37 | 8 15 18 | 18 56 | 202 21 | | |
| | 18 59 | 201 37 | | 5 30 s. | | 10 | Azimut. | <i>Idem.</i> | S. 45. O. | 9 38 26 | | | | | |

| PARAGE OÙ SE TROUVAIT le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|-----------|-------------------|----------------------|---------------------------|-------------------------------|----------------------|--|------------------------|--|--------------------------|---------------------------------|------------|---|
| | | | DATE. | HEURE. | OBSER- VATI- TEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | DÉCLINA- ISON N. E | POSITION géographique. N. | E. P. | |
| | Latitude | Longitude | | | | | | | | | | Latitude | Longitude | |
| Traversée des îles Sandwich au Port-Jackson. | N. | E. P. | 1819. | | | | | | | | | | | Mer grosse; tangages très-forts. |
| | Sept. | | | | | | | | | | | | | |
| | 20°31' | 199°56' | 1 ^{er} . | 6 ^h 20'm. | R. | 6 | Azimut. | Gaillard d'arr. | S. 22° E. | 8° 43' 0" | 8°40'35" | 20°31' | 199°56' | |
| | 20 31 | 199 56 | | 6 20 m. | Fr. | 6 | Azimut. | <i>Idem.</i> | S. 22. E. | 8 38 10 | | | | |
| | 20 21 | 199 51 | | 5 15 s. | R. | 12 | Azimut. | <i>Idem.</i> | S. 45. E. | 8 46 0 | | | | |
| | 20 21 | 199 51 | | 5 15 s. | Fr. | 12 | Azimut. | <i>Idem.</i> | S. 45. E. | 8 32 32 | 9 0 4 | 20 21 | 199 51 | |
| | 20 21 | 199 51 | | 5 15 s. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 45. E. | 9 26 40 | | | | |
| | 20 21 | 199 51 | | 5 25 s. | | 10 | Azimut. | <i>Idem.</i> | S. 45. E. | 9 14 4 | | | | |
| | 20 16 | 199 40 | 2. | 6 0 m. | Lm. | 1 | Amplit. | <i>Idem.</i> | S. 33. E. | 8 15 6 | | | | |
| | 20 14 | 199 39 | | 7 30 m. | B. | 6 | Azimut. | <i>Idem.</i> | S. 11. E. | 6 40 10 | 7 34 20 | 20 14 | 199 39 | |
| | 20 14 | 199 39 | | 7 30 m. | Lm. | 6 | Azimut. | <i>Idem.</i> | S. 11. E. | 7 41 0 | | | | |
| | 20 14 | 199 39 | | 7 30 m. | | 6 | Azimut. | <i>Idem.</i> | S. 11. E. | 7 41 5 | | | | |
| | 19 52 | 199 45 | | 7 15 s. | | 10 | Azimut. | <i>Idem.</i> | S. 45. E. | 9 23 8 | | | | |
| | 19 52 | 199 45 | | 5 20 s. | | 10 | Azimut. | <i>Idem.</i> | S. 45. E. | 9 14 48 | 9 29 46 | 19 52 | 199 45 | |
| | 19 52 | 199 45 | | 5 20 s. | B. | 12 | Azimut. | <i>Idem.</i> | S. 45. E. | 9 59 10 | | | | |
| | 19 52 | 199 45 | | 5 20 s. | | 1 | Amplit. | <i>Idem.</i> | S. 45. E. | 9 22 0 | | | | |
| | 19 21 | 199 58 | 3. | 7 20 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | E. 22. N. | 9 51 6 | | | | |
| | 19 21 | 199 58 | | 7 20 m. | | 10 | Azimut. | <i>Idem.</i> | E. 22. N. | 8 59 25 | 9 27 19 | 19 21 | 199 58 | |
| | 19 21 | 199 59 | | 8 15 m. | Dp. | 13 | Azimut. | <i>Idem.</i> | E. 22. N. | 9 31 25 | | | | |
| | 19 41 | 200 52 | 4. | 5 30 m. | Lm. | 1 | Amplit. | <i>Idem.</i> | E. 22. S. | 9 47 15 | | | | |
| | 19 43 | 200 55 | | 7 10 m. | Db. | 11 | Azimut. | <i>Idem.</i> | E. 22. S. | 8 41 0 | | | | |
| | 19 43 | 200 55 | | 7 15 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | E. 22. S. | 8 22 6 | 9 0 36 | 19 43 | 200 54 | |
| | 19 43 | 200 55 | | 7 15 m. | | 10 | Azimut. | <i>Idem.</i> | E. 22. S. | 8 23 22 | | | | |
| | 19 43 | 200 55 | | 7 15 m. | Fr. | 10 | Azimut. | <i>Idem.</i> | E. 22. S. | 9 49 18 | | | | |
| | 19 42 | 201 7 | | 5 15 s. | Db. | 12 | Azimut. | <i>Idem.</i> | E. 22. S. | 8 47 51 | | | | |
| | 19 42 | 201 7 | | 5 15 s. | Lm. | 10 | Azimut. | <i>Idem.</i> | E. 22. S. | 8 55 26 | 8 50 12 | 19 42 | 201 7 | |
| | 19 42 | 201 7 | | 5 15 s. | | 10 | Azimut. | <i>Idem.</i> | E. 22. S. | 8 47 19 | | | | |
| | 19 17 | 202 5 | 5. | 5 30 s. | | 8 | Azimut. | <i>Idem.</i> | S. 34. E. | 11 3 32 | | | | Mer un peu grosse; roulis et tangages un peu forts. |
| | 19 17 | 202 5 | | 5 35 s. | | 10 | Azimut. | <i>Idem.</i> | S. 34. E. | 10 19 0 | 10 41 16 | 19 17 | 202 5 | |
| | 18 29 | 201 29 | 6. | 7 0 m. | R. | 12 | Azimut. | <i>Idem.</i> | S. 15. E. | 7 42 0 | | | | Mouvements du vaisseau fort irréguliers. |
| | 18 28 | 201 28 | | 7 10 m. | Lm. | 9 | Azimut. | <i>Idem.</i> | S. 22. E. | 7 50 38 | 7 43 3 | 18 28 | 201 28 | |
| | 18 28 | 201 28 | | 7 15 m. | | 10 | Azimut. | <i>Idem.</i> | S. 22. E. | 7 36 30 | | | | Mouvements du vaisseau très-forts. |
| | 17 41 | 201 32 | | 5 0 s. | | 11 | Azimut. | <i>Idem.</i> | S. 34. E. | 6 40 24 | | | | |
| | 17 41 | 201 32 | | 5 0 s. | | 11 | Azimut. | <i>Idem.</i> | S. 34. E. | 7 0 50 | 7 17 25 | 17 41 | 201 32 | |
| | 17 41 | 201 32 | | 5 0 s. | R. | 12 | Azimut. | <i>Idem.</i> | S. 34. E. | 8 11 0 | | | | |

VOYAGE AUTOEUR DU MONDE.

| PARAGE où se trouvait le vaisseau. | POSITION géographique. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|--|---------------------------|-----------|---------|--------|-------------------------|-------------------------------|----------------------|------------------------|--|-------------------|-----------|------------|---|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATI- ONS. | NOMBRE d'expé- riences. | MÉTHODE employée. | | | N. E. | N. | E. P. | | |
| | | | | | | | | | | Longitude | Latitude | | | |
| <i>Suite.</i> <i>Traversée des îles Sandwich au Port-Jackson.</i> | N. | E. P. | 1819. | | | | | | | | | | <i>Mor un peu grosse; roulis et tangages fort irréguliers.</i> <i>Tangages très-vifs.</i> <i>Roulis forts et irréguliers.</i> <i>Mouvements de la corvette très-forts et irréguliers.</i> <i>Moyenne du matin.</i> <i>Moyenne générale.</i> <i>Moyenne du soir.</i> | |
| | 16°35' | 201°54' | Sept. | 7. | 6 ^h 50'm. | Lm. | 8 | Azimut. | Gaillard d'arr. | S. 34°.E. | 8° 35'58" | | | |
| | 16 35 | 201 54 | | | 6 50 m. | | 10 | Azimut. | <i>Idem.</i> | S. 34. E. | 9 0 28 | 8°42'19 | 16°35' 201°54' | |
| | 16 33 | 201 54 | | | 7 8 m. | B. | 6 | Azimut. | <i>Idem.</i> | S. 34. E. | 8 30 30 | | | |
| | 15 55 | 202 3 | | | 5 10 s. | Lm. | 10 | Azimut. | <i>Idem.</i> | S. 45. E. | 6 44 40 | | | |
| | 15 55 | 202 3 | | | 5 10 s. | | 10 | Azimut. | <i>Idem.</i> | S. 45. E. | 6 59 0 | 6 52 27 | 15 55 202 3 | |
| | 15 55 | 202 3 | | | 5 10 s. | B. | 8 | Azimut. | <i>Idem.</i> | S. 45. E. | 6 53 40 | | | |
| | 14 16 | 203 5 | 8. | | 5 10 s. | Lm. | 9 | Azimut. | <i>Idem.</i> | E. 22. S. | 6 37 49 | | | |
| | 14 16 | 203 5 | | | 5 10 s. | | 8 | Azimut. | <i>Idem.</i> | E. 22. S. | 6 37 35 | 6 37 42 | 14 16 203 5 | |
| | 13 23 | 203 52 | 9. | | 7 30 m. | | 10 | Azimut. | <i>Idem.</i> | E. 34. S. | 7 53 57 | | | |
| | 13 23 | 203 52 | | | 7 30 m. | | 9 | Azimut. | <i>Idem.</i> | E. 34. S. | 8 13 30 | 8 3 43 | 13 23 203 52 | |
| | 11 24 | 205 23 | 11. | | 7 10 m. | R. | 12 | Azimut. | <i>Idem.</i> | Est. | 8 10 0 | | | |
| | 11 24 | 205 23 | | | 7 15 m. | Lm. | 12 | Azimut. | <i>Idem.</i> | S. 45. E. | 6 12 13 | 7 6 14 | 11 24 205 23 | |
| | 11 24 | 205 23 | | | 7 15 m. | | 12 | Azimut. | <i>Idem.</i> | S. 45. E. | 6 56 30 | | | |
| | 11 7 | 205 56 | 12. | | 5 50 m. | | 1 | Amplit. | <i>Idem.</i> | E. 22. N. | 7 19 33 | | | |
| | 11 7 | 205 57 | | | 6 45 m. | B. | 6 | Azimut. | <i>Idem.</i> | E. 22. N. | 8 36 20 | 8 29 34 | 11 7 205 58 | |
| | 11 7 | 205 57 | | | 6 45 m. | Lm. | 12 | Azimut. | <i>Idem.</i> | E. 33. N. | 9 1 52 | | | |
| | 11 7 | 205 58 | | | 7 15 m. | | 12 | Azimut. | <i>Idem.</i> | E. 34. N. | 9 0 31 | | | |
| | 10 39 | 206 27 | 13. | | 5 0 s. | | 12 | Azimut. | <i>Idem.</i> | S. 40. E. | 5 33 24 | | | |
| | 10 39 | 206 27 | | | 5 0 s. | | 12 | Azimut. | <i>Idem.</i> | S. 45. E. | 4 58 6 | 5 15 45 | 10 39 206 27 | |
| | 9 52 | 207 3 | 15. | | 7 20 m. | | 10 | Azimut. | <i>Idem.</i> | E. 22. N. | 6 55 52 | | | |
| | 9 52 | 207 3 | | | 7 25 m. | | 10 | Azimut. | <i>Idem.</i> | E. 22. N. | 7 3 34 | 6 45 0 | 9 52 207 3 | |
| | 9 52 | 207 3 | | | 7 25 m. | Db. | 12 | Azimut. | <i>Idem.</i> | S. 45. E. | 6 15 33 | | | |
| | 9 52 | 207 29 | | | 5 20 s. | Lm. | 10 | Azimut. | Dunette | Est. | 6 35 29 | 6 42 24 | | |
| | 9 52 | 207 29 | | | 5 20 s. | | 12 | Azimut. | <i>Idem.</i> | Est. | 6 24 15 | 6 39 48 | 9 52 207 29 | |
| | 9 52 | 207 30 | | | 5 30 s. | Db. | 12 | Azimut. | <i>Idem.</i> | Est. | 6 59 40 | | | |
| | 9 56 | 207 41 | 16. | | 7 0 m. | R. | 12 | Azimut. | G.d'arr. | S. 34. E. | 5 45 0 | | | |
| | 9 56 | 207 41 | | | 7 20 m. | Lm. | 12 | Azimut. | <i>Idem.</i> | S. 22. E. | 5 31 31 | 5 36 1 | 9 56 207 41 | |
| | 9 56 | 207 41 | | | 7 20 m. | | 10 | Azimut. | <i>Idem.</i> | S. 22. E. | 5 31 32 | | | |
| | 9 13 | 208 31 | 18. | | 5 0 s. | | 10 | Azimut. | <i>Idem.</i> | E. 34. S. | 3 46 26 | | | |
| | 9 13 | 208 31 | | | 5 0 s. | | 10 | Azimut. | <i>Idem.</i> | E. 34. S. | 3 52 58 | 3 53 16 | 9 13 208 31 | |
| | 9 12 | 208 32 | | | 5 30 s. | Fr. | 6 | Azimut. | <i>Idem.</i> | E. 34. S. | 4 0 24 | | | |
| | 9 17 | 209 23 | 20. | | 7 0 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | E. 22. S. | 5 12 45 | 4 27 52 | 9 17 209 23 | |
| | 9 17 | 209 23 | | | 7 0 m. | R. | 12 | Azimut. | <i>Idem.</i> | S. 45. E. | 3 43 0 | | | |
| | 8 44 | 210 51 | 21. | | 6 40 s. | | 13 | Azimut. | <i>Idem.</i> | E. 22. S. | 5 34 34 | | | |

| PARAGE où se trouvait le vaisseau. | POSITION géographique. | | ÉPOQUE. | | INDICATIONS. | | | CAP du vaisseau. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|-----------|---------|-------------------|----------------------|-------------------------------|----------------------|------------------------|--|-------------------|------------|------------|-----------------------------|
| | | | DATE. | HEURE. | OBSER- VATRUS. | NOMBRE d'expé- riences. | MÉTHODE employée. | | | Latitude. | Longitude. | | |
| | Latitude | Longitude | | | | | | | | | | | |
| Suite. Traversée des îles Sandwich au Port-Jackson. | N. | E. P. | 1819. | | | | | | E. P. | N. E. | N. | E. P. | |
| | 8° 35' | 212° 30' | Sept. | 23. | 7 ^h 50'm. | R. | 8 | Azimut. | G. d'arr. | E. 11°. S. | 2° 53' 1" | | Mer grosse; tangages forts. |
| | 8 35 | 212 30 | | | 7 50 m. | | 8 | Azimut. | Idem. | E. 11. S. | 3 28 19 | 2° 56' 7 | 8° 35' 212° 30' |
| | 8 35 | 212 30 | | | 7 50 m. | Fr. | 6 | Azimut. | Idem. | E. 11. S. | 2 27 0 | | |
| | 8 58 | 214 30 | 24. | | 7 0 m. | Lm. | 10 | Azimut. | Idem. | E. 11. S. | 4 36 56 | | |
| | 8 58 | 214 40 | | | 7 10 m. | | 10 | Azimut. | Idem. | E. 11. S. | 4 54 18 | 4 30 15 | 8 58 214 40 |
| | 8 59 | 214 41 | | | 7 30 m. | Fb. | 9 | Azimut. | Idem. | E. 11. S. | 3 59 30 | 3 57 28 | |
| | 9 5 | 215 25 | | | 5 10 s. | Lm. | 12 | Azimut. | Idem. | E. 22. S. | 3 4 25 | | |
| | 9 5 | 215 25 | | | 5 10 s. | | 10 | Azimut. | Idem. | E. 22. S. | 3 12 10 | 3 8 17 | 9 5 215 25 |
| | 8 51 | 215 49 | 25. | | 7 25 m. | | 10 | Azimut. | Idem. | S. 40. O. | 5 15 52 | | |
| | 8 51 | 215 49 | | | 7 30 m. | | 12 | Azimut. | Idem. | S. 40. O. | 4 48 45 | 5 2 18 | 8 51 215 49 |
| | 8 29 | 218 9 | 27. | | 7 20 m. | | 11 | Azimut. | Idem. | E. 40. S. | 3 59 40 | | |
| | 8 29 | 218 9 | | | 7 20 m. | | 11 | Azimut. | Idem. | S. 45. E. | 3 23 46 | 3 23 35 | 8 29 218 9 |
| | 8 29 | 218 9 | | | 7 20 m. | B. | 12 | Azimut. | Idem. | S. 45. E. | 3 47 20 | | |
| | 6 17 | 216 33 | Octobr. | | 5 30 s. | Lm. | 8 | Azimut. | Travers de l'échelle des passants. | S. 45. O. | 5 3 15 | | |
| | | | | 1 ^{er} . | | | | | | | 5 8 11 | 6 17 | 216 33 |
| | 6 17 | 216 33 | | | 5 30 s. | | 8 | Azimut. | Idem. | S. 45. O. | 5 13 7 | | |
| | 5 39 | 216 2 | 2. | | 6 35 m. | | 10 | Azimut. | G. d'arr. | S. 22. O. | 3 54 14 | | |
| | 5 39 | 216 2 | | | 6 35 m. | | 11 | Azimut. | Idem. | S. 22. O. | 3 45 57 | 3 57 14 | 5 39 216 2 |
| | 5 39 | 216 2 | | | 6 35 m. | B. | 12 | Azimut. | Idem. | S. 22. O. | 4 11 30 | | |
| | 4 9 | 214 19 | 3. | | 6 45 m. | Lm. | 12 | Azimut. | Idem. | S. 22. O. | 3 25 10 | 3 14 2 | 4 9 214 19 |
| | 4 9 | 214 19 | | | 6 45 m. | | 12 | Azimut. | Idem. | S. 22. O. | 3 2 55 | 3 46 5 | |
| | 3 40 | 213 33 | | | 5 20 s. | | 12 | Azimut. | Idem. | S. 22. O. | 4 22 15 | 4 19 40 | 3 40 213 33 |
| | 3 40 | 213 33 | | | 5 20 s. | | 12 | Azimut. | Idem. | S. 22. O. | 4 17 5 | | |
| | 2 23 | 212 1 | 4. | | 5 0 s. | Fr. | 12 | Azimut. | Idem. | S. 22. O. | 4 53 45 | | |
| | 2 23 | 212 1 | | | 5 0 s. | Lm. | 12 | Azimut. | Idem. | S. 15. O. | 4 2 5 | 4 19 16 | 2 22 212 0 |
| | 2 23 | 212 1 | | | 5 0 s. | | 12 | Azimut. | Idem. | S. 15. O. | 3 40 24 | | |
| | 2 21 | 211 57 | | | 6 0 s. | | 1 | Azimut. | Idem. | S. 11. O. | 4 40 50 | | |
| | 2 2 | 211 15 | 5. | | 6 50 m. | | 12 | Azimut. | Idem. | S. 5. E. | 3 53 46 | | |
| | 2 2 | 211 14 | | | 7 0 m. | | 12 | Azimut. | Idem. | S. 5. E. | 3 57 10 | 3 38 12 | 2 2 111 14 |
| | 2 2 | 211 14 | | | 7 0 m. | Db. | 12 | Azimut. | Idem. | S. 5. E. | 3 3 40 | | |
| | 1 36 | 210 44 | | | 5 45 s. | Lm. | 12 | Azimut. | Idem. | Sud. | 3 49 5 | 3 54 43 | |
| | 1 36 | 210 44 | | | 5 45 s. | | 12 | Azimut. | Idem. | Sud. | 3 54 5 | | |
| | 1 36 | 210 44 | | | 5 45 s. | Db. | 12 | Azimut. | Idem. | Sud. | 4 31 0 | 4 7 6 | 1 36 210 44 |
| | 1 35 | 210 44 | | | 6 0 s. | Lm. | 1 | Amplit. | Idem. | Sud. | 4 14 13 | | |

| PARAGE OÙ SE TROUVAIT le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | | CAP du vaisseau. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|---------|---------|--------|--------------------------|-------------------------------|----------------------|--|------------------------|--|-------------------|------------|------------|--|
| | | | DATE. | HEURE. | OBSER- VATI- EURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | Latitude. | Longitude. | | |
| | | | | | | | | | | | | | | |
| Suite. | N. | E. P. | 1819. | | | | | | | | N. E. | N. E. | N. E. | |
| Traversée des îles Sandwich au Port-Jackson. | 1° 9' | 210°22' | Octobr. | 6. | 6 ^h 0'm. | Lm. | 1 | Amplit. | G. d'arr. | Sud. | 4° 39' 34" | | | |
| | 1 9 | 210 22 | | | 6 0 m. | | 12 | Azimut. | Idem. | Sud. | 3 34 15 | | | |
| | 1 9 | 210 22 | | | 6 0 m. | | 12 | Azimut. | Idem. | Sud. | 3 31 30 | 3°49' 5 | 1° 8' | 210°21' |
| | 1 5 | 210 20 | | | 7 15 m. | R. | 12 | Azimut. | Idem. | S. 6°. E. | 3 31 0 | | | Moyenne du matin. |
| | 0 30 | 210 8 | | | 5 10 s. | Lm. | 12 | Azimut. | Idem. | S. 5. E. | 4 9 39 | 3 51 51 | | Moyenne générale. |
| | 0 30 | 210 8 | | | 5 10 s. | | 12 | Azimut. | Idem. | S. 5. E. | 4 8 43 | | | |
| | 0 30 | 210 8 | | | 5 10 s. | R. | 12 | Azimut. | Idem. | S. 5. E. | 3 43 0 | 3 54 38 | 0 29 | 210 8 |
| | 0 28 | 210 7 | | | 6 0 s. | Lm. | 1 | Amplit. | Idem. | S. 5. E. | 3 37 10 | | | Moyenne du soir. |
| Sud. | | | | | | | | | | | | | | |
| | 0 5 | 210 5 | 7. | | 6 45 m. | | 12 | Azimut. | Idem. | S. 15. E. | 3 43 5 | | | S. |
| | 0 5 | 210 5 | | | 6 50 m. | | 12 | Azimut. | Idem. | S. 15. E. | 3 38 20 | 3 28 27 | 0 5 | 210 5 |
| | 0 6 | 210 4 | | | 7 0 m. | B. | 12 | Azimut. | Idem. | S. 15. E. | 3 3 55 | | | |
| | 2 1 | 209 53 | 8. | | 8 0 m. | Lm. | 10 | Azimut. | Idem. | Sud. | 2 54 55 | | | |
| | 2 1 | 209 53 | | | 8 0 m. | | 10 | Azimut. | Idem. | Sud. | 2 33 48 | 2 41 24 | 2 1 | 209 52 |
| | 2 2 | 209 51 | | | 8 30 m. | | 6 | Azimut. | Idem. | Ouest. | 2 35 30 | | | Tangages forts et irréguliers. |
| | 2 0 | 208 55 | | | 5 15 s. | | 12 | Azimut. | Idem. | Ouest. | 3 51 40 | 3 59 42 | 2 0 | 208 55 |
| | 2 0 | 208 55 | | | 5 15 s. | | 12 | Azimut. | Idem. | Ouest. | 4 7 45 | | | |
| | 2 1 | 207 15 | 9. | | 7 20 m. | Fr. | 12 | Azimut. | Idem. | Onest. | 3 52 40 | 3 42 50 | 2 1 | 207 15 |
| | 2 1 | 207 15 | | | 7 20 m. | Lm. | 12 | Azimut. | Idem. | Ouest. | 3 33 0 | | | |
| | 2 1 | 206 5 | | | 5 20 s. | | 12 | Azimut. | Idem. | Ouest. | 3 26 40 | 3 27 45 | 2 1 | 206 5 |
| | 2 1 | 206 5 | | | 5 20 s. | Fr. | 12 | Azimut. | Idem. | O. 11. N. | 3 28 50 | | | |
| | 2 55 | 205 32 | 10. | | 7 0 m. | Lm. | 12 | Azimut. | Idem. | S. 22. E. | 3 35 10 | | | |
| | 2 55 | 205 32 | | | 7 0 m. | | 12 | Azimut. | Idem. | S. 22. E. | 3 23 25 | 3 24 12 | 2 55 | 205 32 |
| | 2 55 | 205 32 | | | 7 0 m. | Db. | 12 | Azimut. | Idem. | S. 22. E. | 3 14 0 | | | |
| | 5 15 | 204 39 | | | 5 5 s. | Lm. | 9 | Azimut. | Idem. | O. 11. N. | 3 52 50 | 3 45 43 | 3 15 | 204 39 |
| | 3 15 | 204 39 | | | 5 5 s. | | 12 | Azimut. | Idem. | O. 11. N. | 3 38 37 | | | |
| | 5 1 | 202 54 | 11. | | 7 0 m. | | 12 | Azimut. | Idem. | Ouest. | 4 55 46 | | | Mouvements de très-forts et irréguliers. |
| | 3 1 | 202 51 | | | 7 25 m. | | 12 | Azimut. | Idem. | Sud. | 3 55 14 | | | Mouvements moins forts que précédemment. |
| | 3 1 | 202 51 | | | 7 25 m. | | 12 | Azimut. | Idem. | Sud. | 3 40 40 | 4 30 10 | 3 1 | 202 51 |
| | 3 1 | 202 49 | | | 7 40 m. | R. | 11 | Azimut. | Idem. | Sud. | 5 29 0 | | | |
| | 3 0 | 201 44 | | | 5 10 s. | Lm. | 12 | Azimut. | Idem. | O. 11. N. | 4 49 0 | | | |
| | 3 0 | 201 44 | | | 5 15 s. | | 12 | Azimut. | Idem. | O. 11. N. | 4 42 40 | 4 54 13 | 3 0 | 201 44 |
| | 3 0 | 201 44 | | | 5 15 s. | R. | 12 | Azimut. | Idem. | O. 11. N. | 5 11 0 | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|--|---------------------------|-----------|---------|--------|----------------------|-------------------------------|----------------------|--|--|-------------------|---------------------------|------------|----------------|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- TEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | DÉCLINAISON conclue. | | POSITION géographique. | | | |
| | | | | | | | | | Latitude | Longitude | | | | |
| Suite. Traversée des îles Sandwich au Port-Jackson. | S. | E. P. | 1819. | | | | | | N. E. | N. E. | S. | E. P. | | |
| | 2°49' | 200°12' | Octobr. | 12. | 6 ^h 35'm. | B | 12 | Azimut. | Gaillard d'arr. | O. 11°. N. | 5°54'35" | | | |
| | 2 48 | 200 9 | | | 7 0 m. | Lm. | 10 | Azimut. | Idem. | Ouest. | 5 19 30 | | | |
| | 2 48 | 200 9 | | | 7 0 m. | | 10 | Azimut. | Idem. | Ouest. | 5 30 46 | | | |
| | 2 48 | 200 8 | | | 7 10 m. | | 10 | Azimut. | Idem. | Ouest. | 5 25 42 | 5°26'57 | 2° 48' 200° 9' | |
| | 2 48 | 200 8 | | | 7 10 m. | | 10 | Azimut. | Idem. | Sud. | 5 24 33 | | | |
| | 2 48 | 200 8 | | | 7 10 m. | | 10 | Azimut. | Idem. | Sud. | 5 20 52 | | | |
| | 2 48 | 200 8 | | | 7 10 m. | | 10 | Azimut. | Idem. | Sud. | 5 12 40 | | | |
| | 2 48 | 199 3 | | | 5 5 s. | | 8 | Azimut. | Idem. | O. 11. N. | 4 55 30 | | | |
| | 2 48 | 199 3 | | | 5 10 s. | | 10 | Azimut. | Idem. | O. 11. N. | 4 50 50 | | | |
| | 2 48 | 199 3 | | | 5 10 s. | B. | 6 | Azimut. | Idem. | O. 11. N. | 4 50 35 | 2 48 | 199 2 | |
| | 2 48 | 198 58 | | | 5 50 s. | | 1 | Amplit. | Idem. | O. 11. N. | 4 40 0 | | | |
| | 2 16 | 197 44 | 13. | | 7 10 m. | Lm. | 10 | Azimut. | Idem. | Ouest. | 6 36 4 | 6 38 43 | 2 16 197 44 | |
| | 2 16 | 197 44 | | | 7 10 m. | | 10 | Azimut. | Idem. | Ouest. | 6 41 22 | | | |
| | 2 46 | 197 6 | | | 5 10 s. | | 10 | Azimut. | Idem. | S. 22. O. | 7 4 0 | | | |
| | 2 46 | 197 6 | | | 5 15 s. | | 12 | Azimut. | Idem. | S. 22. O. | 6 58 3 | 6 42 18 | 2 47 197 5 | |
| | 2 50 | 197 3 | | | 6 0 s. | | 1 | Amplit. | Idem. | S. 22. O. | 6 4 52 | | | |
| | 4 3 | 196 9 | 14. | | 7 0 m. | | 10 | Azimut. | Idem. | S. 22. O. | 7 25 8 | | | |
| | 4 3 | 196 9 | | | 7 0 m. | | 10 | Azimut. | Idem. | S. 22. O. | 7 15 0 | 7 17 37 | 4 3 196 9 | |
| | 4 3 | 196 9 | | | 7 0 m. | Fb. | 12 | Azimut. | Idem. | S. 22. O. | 7 12 42 | | | |
| | 4 52 | 195 34 | | | 4 50 s. | Lm. | 12 | Azimut. | Idem. | S. 22. O. | 6 25 25 | | | |
| | 4 52 | 195 34 | | | 4 50 s. | | 12 | Azimut. | Idem. | S. 22. O. | 6 38 35 | | | |
| | 4 53 | 295 33 | | | 5 10 s. | Fb. | 13 | Azimut. | Idem. | S. 22. O. | 6 35 20 | 6 27 31 | 4 53 195 33 | |
| | 4 55 | 195 31 | | | 6 0 s. | Lm. | 1 | Amplit. | Idem. | S. 22. O. | 6 0 15 | | | |
| | 4 55 | 195 31 | | | 6 0 s. | Fb. | 1 | Amplit. | Idem. | S. 22. O. | 6 38 0 | | | |
| | 5 50 | 194 45 | 15. | | 6 0 m. | Lm. | 1 | Amplit. | Idem. | S. 22. O. | 4 48 28 | | | |
| | 6 3 | 194 42 | | | 6 45 m. | | 13 | Azimut. | Idem. | S. 22. O. | 6 21 16 | | | |
| | 6 3 | 194 42 | | | 6 45 m. | | 13 | Azimut. | Idem. | S. 22. O. | 6 41 46 | 5 58 20 | 6 2 194 43 | |
| | 6 3 | 194 42 | | | 6 45 m. | Db. | 12 | Azimut. | Idem. | S. 22. O. | 6 1 50 | | | |
| | 6 48 | 194 18 | | | 5 5 s. | Lm. | 12 | Azimut. | Idem. | S. 22. O. | 5 53 15 | | | |
| | 6 48 | 194 18 | | | 5 10 s. | | 12 | Azimut. | Idem. | S. 22. O. | 6 6 0 | 6 4 38 | 6 48 194 18 | |
| | 6 48 | 194 18 | | | 5 10 s. | Db. | 12 | Azimut. | Idem. | S. 22. O. | 6 14 40 | | | |

VOYAGE AUTOUR DU MONDE.

| PARAGE OÙ SE TROUVAIT le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|-----------|---------|--------|----------------------|-------------------------------|----------------------|--|--|-------------------|----------|------------|--------|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- TEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | POSITION GÉOGRAPHIQUE. | | Latitude | Longitude | |
| | | | | | | | | | Latitude | Longitude | | | |
| Suite. | S. | E. P. | 1819. | | | | | | N. E. | N. E. | S. | E. P. | |
| Traversée des îles Sandwich au Port-Jackson. | 8°23' | 193°34' | Octobr. | 17. | 6 ^h 45'm. | Lm. | 10 | Azimut. | Gaillard d'arr. | 7°43'42" | | | |
| | 8 23 | 193 34 | | | 6 45 m. | | 12 | Azimut. | <i>Idem.</i> | 7 49'58 | 8° 23' | 193°34' | |
| | 8 37 | 193 25 | | | 5 25 s. | | 10 | Azimut. | <i>Idem.</i> | 6 28 50 | | | |
| | 9 12 | 193 5 | 18. | | 6 30 m. | | 12 | Azimut. | <i>Idem.</i> | 6 39 25 | | | |
| | 9 12 | 193 5 | | | 6 30 m. | | 12 | Azimut. | <i>Idem.</i> | 7 23 18 | 8 19 8 | 9 12 | 193 5 |
| | 9 12 | 193 5 | | | 6 30 m. | G. | 10 | Azimut. | <i>Idem.</i> | 7 54 42 | | | |
| | 10 54 | 192 12 | 19. | | 6 40 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | 7 10 25 | | | |
| | 10 54 | 192 12 | | | 6 45 m. | | 12 | Azimut. | <i>Idem.</i> | 7 50 31 | 8 0 39 | 10 55 | 192 12 |
| | 10 56 | 192 11 | | | 7 0 m. | Fb. | 14 | Azimut. | <i>Idem.</i> | 9 1 0 | | | |
| | 11 29 | 191 57 | | | 5 5 s. | Lm. | 12 | Azimut. | <i>Idem.</i> | 7 15 31 | | | |
| | 11 29 | 191 57 | | | 5 5 s. | | 13 | Azimut. | <i>Idem.</i> | 7 7 8 | 7 24 11 | 11 30 | 191 57 |
| | 11 31 | 191 57 | | | 5 30 s. | Fb. | 12 | Azimut. | <i>Idem.</i> | 7 49 55 | | | |
| | 15 34 | 188 53 | 22. | | 7 25 m. | Lm. | 12 | Azimut. | <i>Idem.</i> | 9 0 59 | | | |
| | 15 34 | 188 53 | | | 7 25 m. | | 12 | Azimut. | <i>Idem.</i> | 9 5 25 | 9 0 37 | 15 34 | 188 53 |
| | 15 34 | 188 53 | | | 7 25 m. | B. | 9 | Azimut. | <i>Idem.</i> | 8 55 27 | | | |
| | 16 20 | 188 9 | | | 5 10 s. | Lm. | 12 | Azimut. | <i>Idem.</i> | 7 44 25 | | | |
| | 16 20 | 188 9 | | | 5 10 s. | | 12 | Azimut. | <i>Idem.</i> | 7 48 50 | | | |
| | 16 20 | 188 9 | | | 5 10 s. | B. | 12 | Azimut. | <i>Idem.</i> | 8 39 40 | 8 16 5 | 16 20 | 188 9 |
| | 16 20 | 188 9 | | | 5 10 s. | Lm. | 1 | Amplit. | <i>Idem.</i> | 8 51 27 | | | |
| | 17 17 | 187 24 | 23. | | 5 55 m. | | 1 | Amplit. | <i>Idem.</i> | 8 39 10 | | | |
| | 17 21 | 187 21 | | | 7 15 m. | | 12 | Azimut. | <i>Idem.</i> | 7 40 30 | 7 54 48 | 17 20 | 187 22 |
| | 17 21 | 187 21 | | | 7 20 m. | | 12 | Azimut. | <i>Idem.</i> | 7 43 44 | | | |
| | 17 21 | 187 21 | | | 7 20 m. | G. | 12 | Azimut. | <i>Idem.</i> | 7 35 50 | | | |
| | 17 57 | 186 55 | | | 5 20 s. | Lm. | 12 | Azimut. | <i>Idem.</i> | 8 44 11 | | | |
| | 17 57 | 186 55 | | | 5 20 s. | | 12 | Azimut. | <i>Idem.</i> | 9 9 23 | | | |
| | 17 57 | 186 55 | | | 5 35 s. | | 12 | Azimut. | <i>Idem.</i> | 8 30 18 | 8 49 46 | 17 58 | 186 54 |
| | 18 1 | 186 53 | | | 6 25 s. | G. | 1 | Amplit. | <i>Idem.</i> | 8 55 13 | | | |
| | 18 45 | 186 27 | 24. | | 6 35 m. | Lm. | 15 | Azimut. | <i>Idem.</i> | 8 30 9 | | | |
| | 18 45 | 186 27 | | | 6 35 m. | | 12 | Azimut. | <i>Idem.</i> | 9 43 20 | 9 17 40 | 18 45 | 186 27 |
| | 18 45 | 186 27 | | | 6 35 m. | Fb. | 12 | Azimut. | <i>Idem.</i> | 9 39 30 | | | |
| | 20 16 | 185 35 | 25. | | 6 25 m. | Lm. | 12 | Azimut. | <i>Idem.</i> | 9 54 10 | | | |
| | 20 16 | 185 35 | | | 6 25 m. | | 12 | Azimut. | <i>Idem.</i> | 9 43 20 | 9 55 58 | 20 16 | 185 35 |
| | 20 16 | 185 35 | | | 6 25 m. | Db. | 12 | Azimut. | <i>Idem.</i> | 10 10 25 | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | DÉCLINAISON CAP du VAISSEAU. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|------------------|------------------------|----------------------|--------------------|-------------------------------|---|--|--------------------|------------------------------|---------------------------|------------------|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | DÉCLINAIS- ON conclue. | POSITION géographique. | |
| | | | | | | | | | | | | |
| Saite. | S. 21° 5' | E. P. 184°45' | 1819. Octob. 26. | 6 ^h 25'm. | Lm. | 8 | Azimut. <i>Gaillard d'arrière.</i> | O. 22°. S. | N. E. 10° 7'57" | N. E. 8°55'16" | S. 21° 6' | E. P. 184°44' |
| Traversée des îles Sandwich au Port-Jackson. | 21 6 | 184 44 | | 6 45 m. | | 12 | Azimut. <i>Idem.</i> | O. 22. S. | 8 50 8 | | | |
| | 21 6 | 184 44 | | 6 45 m. | | 12 | Azimut. <i>Idem.</i> | O. 22. S. | 8 50 1 | | | |
| | 21 6 | 184 43 | | 7 5 m. | R. | 12 | Azimut. <i>Idem.</i> | O. 22. S. | 7 53 0 | | | |
| | 21 42 | 183 21 | 27. | 6 45 m. | Lm. | 8 | Azimut. <i>Idem.</i> | O. 34. S. | 11 32 56 | | | |
| | 21 42 | 183 21 | | 6 45 m. | | 8 | Azimut. <i>Idem.</i> | O. 34. S. | 11 24 16 | 11 28 36 | 21 42 | 183 21 |
| | 22 24 | 183 7 | | 5 s. | | 12 | Azimut. <i>Idem.</i> | O. 11. S. | 10 55 41 | | | |
| | 22 24 | 183 7 | | 5 s. | | 12 | Azimut. <i>Idem.</i> | O. 11. S. | 10 43 25 | 10 52 19 | 22 24 | 183 7 |
| | 22 24 | 183 7 | | 5 s. | B. | 6 | Azimut. <i>Idem.</i> | O. 11. S. | 10 57 50 | | | |
| | 22 17 | 182 12 | 28. | 6 25 m. | Lm. | 12 | Azimut. <i>Idem.</i> | O. 34. S. | 11 12 14 | | | |
| | 22 17 | 182 12 | | 6 25 m. | | 12 | Azimut. <i>Idem.</i> | O. 34. S. | 11 10 9 | 11 14 50 | 22 17 | 182 12 |
| | 22 17 | 182 11 | | 6 35 m. | G. | 12 | Azimut. <i>Idem.</i> | O. 34. S. | 11 22 7 | | | |
| | 22 28 | 181 20 | | 5 55 s. | Lm. | 8 | Azimut. <i>Idem.</i> | O. 34. S. | 9 6 29 | | | |
| | 22 28 | 181 20 | | 5 55 s. | | 10 | Azimut. <i>Idem.</i> | O. 34. S. | 10 3 56 | 9 55 27 | 22 28 | 181 19 |
| | 22 29 | 181 17 | | 6 30 s. | | 1 | Amplit. <i>Idem.</i> | O. 34. S. | 10 35 55 | | | |
| | 22 48 | 180 18 | 29. | 5 55 m. | | 1 | Amplit. <i>Dunette.</i> | O. 34. S. | 10 0 28 | | | |
| | 22 50 | 180 13 | | 7 m. | Fb. | 13 | Azimut. <i>Gaillard d'arrière.</i> | O. 34. S. | 11 28 40 | 10 49 12 | 22 49 | 180 14 |
| | 22 50 | 180 13 | | 7 5 m. | Lm. | 12 | Azimut. <i>Idem.</i> | O. 34. S. | 10 57 40 | | | |
| | 22 50 | 180 13 | | 7 5 m. | | 13 | Azimut. <i>Idem.</i> | O. 34. S. | 10 49 59 | | | |
| | 23 18 | 179 6 | | 5 10 s. | | 8 | Azimut. <i>Idem.</i> | O. 34. S. | 8 55 24 | | | |
| | 23 18 | 179 6 | | 5 10 s. | | 8 | Azimut. <i>Idem.</i> | O. 34. S. | 9 9 41 | 9 22 43 | 23 19 | 179 4 |
| | 23 22 | 179 0 | | 6 10 s. | | 1 | Amplit. <i>Idem.</i> | O. 34. S. | 10 3 5 | | | |
| | 24 5 | 177 45 | 30. | 6 15 m. | | 12 | Azimut. <i>Idem.</i> | S. 45. O. | 11 22 35 | | | |
| | 24 5 | 177 45 | | 6 15 m. | | 12 | Azimut. <i>Idem.</i> | S. 45. O. | 11 12 55 | 11 14 17 | 24 5 | 177 45 |
| | 24 5 | 177 45 | | 6 15 m. | Db. | 12 | Azimut. <i>Idem.</i> | S. 45. O. | 11 7 20 | | | |
| | 24 45 | 176 33 | | 5 10 s. | Lm. | 12 | Azimut. <i>Idem.</i> | S. 45. O. | 9 45 20 | | | |
| | 24 45 | 176 33 | | 5 15 s. | | 10 | Azimut. <i>Idem.</i> | S. 45. O. | 9 38 4 | 10 13 15 | 24 45 | 176 33 |
| | 24 45 | 176 32 | | 5 20 s. | Db. | 12 | Azimut. <i>Idem.</i> | S. 45. O. | 11 16 20 | | | |
| | 25 28 | 175 12 | 31. | 6 35 m. | Lm. | 12 | Azimut. <i>Idem.</i> | S. 45. O. | 12 4 55 | | | |
| | 25 28 | 175 12 | | 6 35 m. | | 12 | Azimut. <i>Idem.</i> | S. 45. O. | 12 11 25 | 11 54 7 | 25 28 | 175 11 |
| | 25 29 | 175 10 | | 6 50 m. | R. | 12 | Azimut. <i>Idem.</i> | S. 45. O. | 11 26 0 | | | |

VOYAGE AUTOUR DU MONDE.

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille similante. | RÉSULTATS MOYENS. | | REMARQUES. | |
|--|---------------------------|-----------|---------------------|---------------------|-------------------------|-------------------------------|----------------------|--|------------------------|---|-------------------------|---------------------------|------------|---------|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATI- ONS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | | | DÉCLINAISON conclue. | POSITION géographique. | | |
| | | | | | | | | | | | Latitude. | Longitude | | |
| Saile. | S. | E. P. | 1819. Nov. 1. | 7 ^h 5'm. | Lm. | 11 | Azimut. | Gaillard d'arrière. | S. 45° O. | 12°37'56" | N. E. | N. E. | S. | E. P. |
| Traversée des îles Sandwich au Port-Jackson. | 26°46' | 173°12' | | 7 5 m. | | 11 | Azimut. | Idem. | S. 45. O. | 12 36 16 | | 12°37' 6" | 26°46' | 173°12' |
| | 26 46 | 173 12 | | | | | | | | | | | | |
| | 27 39 | 166 37 | 3. | 5 15 s. | | 12 | Azimut. | Idem. | O. 22. S. | 11 54 55 | | | | |
| | 27 39 | 166 37 | | 5 15 s. | | 12 | Azimut. | Idem. | O. 22. S. | 11 15 5 | | 11 35 25 | 27 39 | 166 35 |
| | 27 39 | 166 35 | | 5 34 s. | Fb. | 12 | Azimut. | Idem. | O. 22. S. | 11 41 40 | | | | |
| | 27 40 | 166 31 | | 6 15 s. | | 1 | Amplit. | Idem. | O. 34. S. | 11 30 0 | | | | |
| | 28 5 | 165 24 | 4. | 6 45 m. | Lm. | 13 | Azimut. | Idem. | S. 40. O. | 12 32 25 | | | | |
| | 28 5 | 165 24 | | 6 45 m. | | 12 | Azimut. | Idem. | S. 40. O. | 12 38 30 | | 12 36 12 | 28 5 | 165 24 |
| | 28 6 | 165 23 | | 7 m. | Db. | 12 | Azimut. | Idem. | S. 40. O. | 12 37 40 | | | | |
| | 28 41 | 164 21 | | 5 15 s. | Lm. | 10 | Azimut. | Échelle des passa- vants. | S. 34. O. | 11 548 | | | | |
| | 28 41 | 164 21 | | 5 15 s. | | 10 | Azimut. | Idem. | S. 34. O. | 11 412 | | 11 5 0 | 28 41 | 164 21 |
| | 29 30 | 163 6 | 5. | 6 m. | | 12 | Azimut. | Gaillard d'arrière. | S. 33. O. | 12 647 | | | | |
| | 29 30 | 163 6 | | 6 m. | | 12 | Azimut. | Idem. | S. 33. O. | 12 10 5 | | 12 8 2 | 29 30 | 163 6 |
| | 29 31 | 163 5 | | 6 15 m. | Fr. | 12 | Azimut. | Idem. | S. 33. O. | 12 715 | | | | |
| | 30 10 | 162 8 | | 5 10 s. | Lm. | 12 | Azimut. | Échelle des passa- vants. | S. 45. O. | 11 12 38 | | | | |
| | 30 10 | 162 8 | | 5 10 s. | | 12 | Azimut. | Idem. | S. 45. O. | 11 11 25 | | 11 12 1 | 30 10 | 162 8 |
| | 30 48 | 161 4 | 6. | 5 6 m. | | 1 | Amplit. | Dunette. | S. 45. O. | 10 815 | | | | |
| | 30 51 | 160 58 | | 6 25 m. | | 14 | Azimut. | Gaillard d'arrière. | S. 45. O. | 12 21 18 | | | | |
| | 30 52 | 160 56 | | 6 40 m. | | 14 | Azimut. | Idem. | S. 45. O. | 12 24 40 | | 11 31 27 | 30 51 | 160 58 |
| | 30 52 | 160 56 | | 6 45 m. | B. | 12 | Azimut. | Idem. | S. 45. O. | 11 11 35 | | | | |
| | 31 8 | 160 24 | | 5 s. | Lm. | 12 | Azimut. | Échelle des passa- vants. | S. 45. O. | 10 53 55 | | | | |
| | 31 8 | 160 24 | | 5 s. | | 10 | Azimut. | Idem. | S. 45. O. | 10 55 26 | | | | |
| | 31 8 | 160 23 | | 5 20 s. | B. | 12 | Azimut. | Idem. | S. 45. O. | 10 34 50 | | 10 43 33 | 31 8 | 160 23 |
| | 31 9 | 160 20 | | 6 s. | | 1 | Amplit. | Idem. | S. 45. O. | 10 30 0 | | | | |
| | 31 16 | 160 1 | 7. | 5 m. | Lm. | 1 | Amplit. | Dunette. | S. 45. O. | 13 238 | | | | |
| | 31 18 | 159 56 | | 6 25 m. | | 12 | Azimut. | Gaillard d'arrière. | S. 45. O. | 12 56 20 | | 12 56 49 | 31 17 | 159 58 |
| | 31 18 | 159 56 | | 6 35 m. | | 12 | Azimut. | Idem. | S. 45. O. | 12 51 30 | | | | |
| | 32 54 | 158 14 | 8. | 7 40 m. | | 8 | Azimut. | Idem. | O. 11. N. | 11 56 48 | | | | |
| | 32 36 | 157 28 | | 5 10 s. | | 12 | Azimut. | Idem. | Ouest. | 11 19 45 | | | | |
| | 32 36 | 157 28 | | 5 10 s. | | 12 | Azimut. | Idem. | Ouest. | 11 20 45 | | 11 26 56 | 32 36 | 157 28 |
| | 32 36 | 157 28 | | 5 10 s. | Fb. | 10 | Azimut. | Idem. | Ouest. | 11 40 18 | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | | | |
|--|---------------------------|-----------|-------------------------|----------------------|--------------------|-------------------------------|----------------------|--|-------------|------------------------|--|-------------------|---------|---|--|--|--|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | DÉCLINAISON | | POSITION géographique. | | | | | | | |
| | | | | | | | | | de | son | | | | | | | | |
| Suite. Traversée des îles Sandwich au Port-Jackson. | S. | E. P. | 1819. Nov. 9. | 7 ^h 30'm. | Lm. | 10 | Azimut. | Gaillard d'arr. | Ouest. | N. E. | N. E. | S. | E. P. | | | | | |
| | 32° 10' | 156° 8' | | 7 30 m. | | 10 | Azimut. | <i>Idem.</i> | Ouest. | 10° 15' 48" | | | | | | | | |
| | 32 10 | 156 8 | | 7 40 m. | Db. | 12 | Azimut. | <i>Idem.</i> | Ouest. | 9 30 42 | 9 35' 55 | 32° 10' | 156° 7' | | | | | |
| | 32 10 | 156 7 | | 7 40 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | Ouest. | 8 58 15 | | | | | | | | |
| | 32 15 | 155 10 | | 5 15 s. | | 14 | Azimut. | <i>Id. près du gr. mat.</i> | O. 34° S. | 10 7 9 | | | | | | | | |
| | 32 15 | 155 10 | | 5 15 s. | | 14 | Azimut. | <i>Idem.</i> | O. 34. S. | 10 2 42 | 10 14 59 | 32 15 | 155 9 | | | | | |
| | 32 16 | 155 6 | | 5 55 s. | Db. | 12 | Azimut. | Gaillard d'arr. | O. 34. S. | 10 35 7 | | | | | | | | |
| | 32 56 | 153 49 | 10. | 5 5 s. | Lm. | 7 | Azimut. | <i>Idem.</i> | S. 45. O. | 10 19 24 | | | | | | | | |
| | 32 56 | 153 49 | | 5 5 s. | | 7 | Azimut. | <i>Idem.</i> | S. 45. O. | 10 24 20 | 10 21 52 | 32 56 | 153 49 | | | | | |
| | 33 17 | 152 27 | 11. | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | O. 34. S. | 11 12 20 | | | | | | | | |
| | 33 17 | 152 27 | | 7 0 m. | | 6 | Azimut. | <i>Idem.</i> | O. 34. S. | 11 13 26 | 11 12 53 | 33 17 | 152 27 | | | | | |
| | 34 22 | 150 7 | 12. | 5 10 s. | | 12 | Azimut. | <i>Idem.</i> | Ouest. | 9 13 40 | | | | | | | | |
| | 34 22 | 150 7 | | 5 10 s. | | 12 | Azimut. | <i>Idem.</i> | Ouest. | 9 13 0 | 9 13 20 | 34 22 | 150 7 | | | | | |
| | 34 11 | 149 45 | 13. | 7 20 m. | | 12 | Azimut. | <i>Idem.</i> | Ouest. | 8 36 0 | | | | | | | | |
| | 34 11 | 149 45 | | 7 20 m. | | 12 | Azimut. | <i>Idem.</i> | Ouest. | 8 17 25 | 8 26 42 | 34 11 | 149 45 | | | | | |
| | 36 21 | 150 18 | Déc. 27. | 6 35 m. | | 12 | Azimut. | <i>Idem.</i> | S. 11° E. | 7 52 20 | | | | | | | | |
| | 36 21 | 150 18 | | 6 35 m. | | 12 | Azimut. | <i>Idem.</i> | S. 11. E. | 7 57 15 | 7 54 47 | 36 21 | 150 18 | | | | | |
| | 38 21 | 150 15 | 28. | 5 20 s. | | 12 | Azimut. | <i>Idem.</i> | Sud. | 8 50 5 | | | | | | | | |
| | 38 21 | 150 15 | | 5 20 s. | | 12 | Azimut. | <i>Idem.</i> | Sud. | 8 47 55 | 8 43 47 | 38 22 | 150 15 | | | | | |
| | 38 23 | 150 15 | | 5 40 s. | B. | 6 | Azimut. | <i>Idem.</i> | Sud. | 8 33 20 | | | | | | | | |
| | 39 5 | 149 46 | 29. | 5 40 s. | Lm. | 12 | Azimut. | <i>Idem.</i> | E. 11° S. | 9 59 20 | | | | | | | | |
| | 39 5 | 149 46 | | 5 40 s. | | 12 | Azimut. | <i>Idem.</i> | E. 11. S. | 9 38 30 | 9 48 55 | 39 5 | 149 46 | | | | | |
| | 49 38 | 157 55 | 1820. Janvier. 5. | 6 36 m. | | 10 | Azimut. | <i>Idem.</i> | S. 11. E. | 15 11 30 | | | | | | | | |
| | 49 38 | 157 55 | | 6 36 m. | | 12 | Azimut. | <i>Idem.</i> | S. 11. E. | 15 39 45 | 15 25 37 | 49 38 | 157 55 | Mer grosse, mouvements du vaisseau considérables. Observation douteuse. | | | | |
| | 50 53 | 158 45 | | 6 0 s. | | 8 | Azimut. | <i>Idem.</i> | E. 45. S. | 15 47 3 | | | | Mer grosse ; le navire très- agité. | | | | |
| | 51 39 | 160 42 | 6. | 6 35 m. | | 8 | Azimut. | <i>Idem.</i> | E. 34. S. | 12 30 34 | | | | | | | | |
| | 54 1 | 171 39 | 8. | 6 0 s. | | 12 | Azimut. | <i>Idem.</i> | E. 11. S. | 15 30 18 | | | | | | | | |
| | 54 1 | 171 39 | | 6 0 s. | | 12 | Azimut. | <i>Idem.</i> | E. 11. S. | 14 44 25 | 15 22 59 | 54 3 | 171 47 | Mer grosse ; mouvements du vaisseau fort grands. | | | | |
| | 54 8 | 172 3 | | 8 35 s. | | 1 | Amplit. | <i>Idem.</i> | E. 11. S. | 15 54 13 | | | | | | | | |
| | 54 42 | 174 1 | 9. | 7 0 m. | | 10 | Azimut. | <i>Idem.</i> | E. 11. S. | 16 14 58 | 16 3 49 | 54 42 | 174 1 | Mer un peu grosse. Même état de la mer. | | | | |
| | 54 42 | 174 1 | | 7 0 m. | | 10 | Azimut. | <i>Idem.</i> | E. 11. S. | 15 52 40 | | | | | | | | |
| | 55 13 | 176 16 | | 5 15 s. | | 10 | Azimut. | <i>Idem.</i> | E. 11. S. | 17 56 50 | | | | | | | | |
| | 55 12 | 176 16 | | 5 15 s. | | 10 | Azimut. | <i>Idem.</i> | E. 11. S. | 17 33 38 | 17 45 14 | 55 12 | 176 16 | | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VANISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|---|---------------------------|---------|-----------------------|-------------------------------|----------------------|--|---------------------------|--------------------|-------------------------|--|-------------------|-----------|--|--|--|
| | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | PARTIE où se faisait l'ex- périence. | POSITION géographique. | | | | Latitude. | Longitude | | | |
| | | | | | | | Latitude | Longitude | | | | | | | |
| Traversée du Port-Jackson aux îles Malouines. | S. | E. P. | 1820. Janv. 10. | 5 ^h 30' s. | Lm. | 12 | Azimut. <i>Idem.</i> | Gaillard d'avr. | E. 11°.S. | 16° 1'50" | 55° 18' | 180°11' | | | |
| | 55°18' | 180°11' | | 5 30 s. | | 10 | Azimut. <i>Idem.</i> | | E. 11. S. | 15 52 12 | 15°57" 1 | | Observation douteuse. | | |
| | 55° 7 | 182 32 | 11. | 7 0 m. | | 10 | Azimut. <i>Idem.</i> | | E. 22. N. | 19 21 56 | | | | | |
| | 55° 7 | 182 40 | | 7 45 m. | | 12 | Azimut. <i>Idem.</i> | | E. 22. N. | 19 14 4 | 19 18 0 | 55° 7 | 182 36 | | |
| | 54 54 | 184 49 | | 5 25 s. | Db. | 12 | Azimut. <i>Idem.</i> | | E. 22. N. | 20 14 35 | | | Résultat qui paraît un peu fort. | | |
| | 53 37 | 195 43 | 13. | 6 0 s. | Lm. | 10 | Azimut. <i>Idem.</i> | | E. 22. N. | 14 3 58 | | | Mer un peu agitée. | | |
| | 53 37 | 195 43 | | 6 0 s. | | 12 | Azimut. <i>Idem.</i> | | E. 22. N. | 13 22 35 | 13 43 16 | 53 37 | 195 43 | | |
| | 52 45 | 204 8 | 15. | 6 12 m. | | 9 | Azimut. <i>Idem.</i> | | E. 22. N. | 17 52 40 | | | Mer grosse; le vaisseau très agité. | | |
| | 52 45 | 204 8 | | 6 12 m. | | 9 | Azimut. <i>Idem.</i> | | E. 22. N. | 17 1 20 | 17 27 0 | 52 45 | 204 8 | | |
| | 53 51 | 223 0 | 19. | 6 10 m. | | 10 | Azimut. <i>Idem.</i> | | E. 22. S. | 5 54 38 | | | Mer un peu grosse; le soleil fréquemment caché par les nuages et par la brume qui est à l'horizon. | | |
| | 53 53 | 223 9 | | 7 10 m. | | 10 | Azimut. <i>Idem.</i> | | E. 22. S. | 7 30 48 | 6 42 43 | 53 52 | 223 4 | | |
| | 54 21 | 224 49 | | 5 20 s. | Fb. | 10 | Azimut. <i>Idem.</i> | | E. 22. S. | 10 36 3 | | | | | |
| | 54 21 | 224 50 | | 5 25 s. | | 10 | Azimut. <i>Idem.</i> | | E. 22. S. | 10 12 20 | | | | | |
| | 54 23 | 224 56 | | 6 15 s. | Lm. | 12 | Azimut. <i>Idem.</i> | | E. 22. S. | 9 50 0 | 10 9 51 | 54 22 | 224 53 | | |
| | 54 23 | 224 56 | | 6 15 s. | | 12 | Azimut. <i>Idem.</i> | | E. 22. S. | 10 1 1 | | | | | |
| | 56 44 | 237 37 | 23. | 5 55 s. | | 12 | Azimut. <i>Idem.</i> | | E. 23. N. | 15 42 50 | | | Mer houleuse, résultat douteux. | | |
| | 56 44 | 237 37 | | 6 0 s. | | 12 | Azimut. <i>Idem.</i> | | E. 23. N. | 14 54 56 | 15 18 53 | 56 44 | 237 37 | | |
| | 56 44 | 238 56 | 24. | 7 35 m. | | 12 | Azimut. <i>Idem.</i> | | Est. | 14 28 0 | | | Mer un peu grosse; mouvements du vaisseau très-vifs. | | |
| | 56 44 | 238 56 | | 7 35 m. | | 12 | Azimut. <i>Idem.</i> | | Est. | 15 41 45 | | | | | |
| | 56 46 | 239 14 | 10. | 7 m. | Fb. | 8 | Azimut. <i>Idem.</i> | | Est. | 13 36 30 | 14 3 37 | 56 45 | 239 7 | | |
| | 56 46 | 239 14 | | 10 7 m. | | 8 | Azimut. <i>Idem.</i> | | Est. | 13 0 10 | | | Mer un peu grosse; mouvements du vaisseau très-vifs. | | |
| | 56 46 | 239 16 | | 10 20 m. | | 8 | Azimut. <i>Idem.</i> | | Est. | 13 31 40 | | | | | |
| | 56 59 | 243 0 | 25. | 7 25 m. | Lm. | 12 | Azimut. <i>Idem.</i> | | Est. | 14 9 20 | | | | | |
| | 56 59 | 243 0 | | 7 35 m. | | 10 | Azimut. <i>Idem.</i> | | Est. | 13 57 18 | 14 3 19 | 56 59 | 243 0 | | |
| | 57 6 | 244 23 | | 5 50 s. | | 10 | Azimut. <i>Idem.</i> | | Est. | 16 0 0 | | | | | |
| | 57 6 | 244 31 | | 6 55 s. | | 10 | Azimut. <i>Idem.</i> | | Est. | 14 51 28 | 15 9 49 | 57 6 | 244 28 | | |
| | 57 6 | 244 31 | | 7 0 s. | | 10 | Azimut. <i>Idem.</i> | | Est. | 14 38 0 | | | | | |
| | 57 18 | 246 9 | 26. | 7 10 m. | | 12 | Azimut. <i>Idem.</i> | | Est. | 14 43 40 | | | | | |
| | 57 18 | 246 9 | | 7 10 m. | | 10 | Azimut. <i>Idem.</i> | | Est. | 15 3 14 | | | | | |
| | 57 18 | 246 9 | | 7 10 m. | Db. | 12 | Azimut. <i>Idem.</i> | | E. 22°.S. | 15 31 0 | 15 13 28 | 57 18 | 246 10 | | |
| | 57 18 | 246 14 | | 8 0 m. | R. | 6 | Azimut. <i>Idem.</i> | | E. 11. S. | 15 36 0 | | | | | |
| | 57 24 | 247 30 | 27. | 4 0 m. | B. | 1 | Amplit. <i>Idem.</i> | | Est. | 18 42 0 | | | | | |
| | 57 24 | 247 55 | | 6 15 m. | Lm. | 10 | Azimut. <i>Idem.</i> | | E. 11°.N. | 18 25 40 | 19 8 47 | 57 24 | 247 49 | | |
| | 57 24 | 247 55 | | 6 15 m. | | 10 | Azimut. <i>Idem.</i> | | E. 11. N. | 19 32 14 | | | | | |
| | 57 24 | 247 56 | | 6 20 m. | B. | 6 | Azimut. <i>Idem.</i> | | Est. | 19 55 15 | | | | | |

| PARAGE où se trouvent les vaisseaux. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | REMARQUES. |
|--|---------------------------|----------------|----------|---------|-------------------|-------------------------------|----------------------|------------------------|--|-------------------------|---------------------------|------------|
| | | | DATE. | HEURE. | OBSER- VATRUE. | NOMBRE d'expé- riences. | MÉTHODE employée. | | | DÉCLINAISON conclue. | POSITION géographique. | |
| | | | | | | | | | | | | |
| Sortie. | S. | E. P. | 1820. | | | | | | | | | |
| Traversée du Port-Jackson aux îles Malouines. | 57°27' | 249°36' | Janvier. | 6° 3's. | Lm. | 10 | Azimut. G. d'arr. | E. 11° N. | N. E. 19°41'24" | N. E. | S. | E. P. |
| | 57 27 | 249 36 | | 6 3 s. | | 10 | Azimut. Idem. | E. 11. N. | 20 39 30 | 20°19'55" | 57° 27' | 249°36' |
| | 57 27 | 249 36 | | 6 3 s. | | 10 | Azimut. Idem. | E. 11. N. | 20 38 52 | | | |
| | 58 29 | 256 50 | 29. | 5 35 m. | | 8 | Azimut. Idem. | E. 22. N. | 24 35 25 | | | |
| | 58 29 | 256 50 | | 5 35 m. | | 8 | Azimut. Idem. | E. 22. N. | 24 15 42 | 23 50 29 | 58 30 | 257 1 |
| | 58 32 | 257 23 | | 8 30 m. | Fb. | 6 | Azimut. Idem. | E. 22. N. | 22 40 20 | | | |
| | 58 35 | 269 2 | 31. | 6 0 s. | R. | 12 | Azimut. Idem. | E. 22. N. | 24 11 0 | | | |
| | 55 24 | 286 45 | Février. | 9 15 m. | R. | 1 | Azimut. Idem. | E. 45. S. | 25 15 0 | 26 7 0 | 55 24 | 286 45 |
| | 55 24 | 286 45 | | 9 15 m. | | 1 | Azimut. Idem. | E. 45. S. | 26 59 0 | | | |
| | 55 13 | 291 3 | 7. | 7 55 m. | Lm. | 12 | Azimut. Idem. | E. 22. N. | 28 13 5 | 28 8 30 | 55 13 | 291 3 |
| | 55 13 | 291 3 | | 7 55 m. | | 12 | Azimut. Idem. | E. 22. N. | 28 3 55 | | | |
| | 50 25 | 293 0 | 10. | 5 25 s. | | 12 | Azimut. Idem. | E. 34. N. | 22 14 24 | 22 19 5 | 50 25 | 293 0 |
| | 50 25 | 293 0 | | 5 30 s. | | 12 | Azimut. Idem. | E. 34. N. | 22 23 46 | | | |
| | 50 9 | 294 58 | | 6 45 m. | | 12 | Azimut. Idem. | E. 22. N. | 17 20 25 | | | |
| | 50 9 | 294 58 | | 6 45 m. | | 12 | Azimut. Idem. | E. 22. N. | 16 45 45 | 17 26 5 | 50 8 | 295 7 |
| | 50 6 | 295 24 | | 9 20 m. | B. | 12 | Azimut. Idem. | E. 11. N. | 18 12 5 | | | |
| | 50 8 | 297 11 | | 5 30 s. | | 12 | Azimut. Idem. | E. 22. S. | 18 12 0 | | | |
| | 50 8 | 297 11 | | 5 35 s. | Lm. | 12 | Azimut. Idem. | E. 22. S. | 18 2 53 | 18 6 8 | 50 8 | 297 11 |
| | 50 9 | 297 12 | | 5 45 s. | | 12 | Azimut. Idem. | E. 22. S. | 18 3 30 | | | |
| Traversée de Rio de Janeiro en France. | 26 3 | O. P. 35 34 | Sept. | 5 0 s. | | 8 | Azimut. Idem. | Est. | N. O. 4 38 47 | N. O. | | O. P. |
| | 26 3 | 35 33 | 19. | 5 10 s. | | 8 | Azimut. Idem. | Est. | 5 7 12 | 4 52 50 | 26 3 | 35 33 |
| | 25 33 | 34 11 | 20. | 5 0 s. | | 10 | Azimut. Idem. | Nord. | 3 7 36 | | | |
| | 25 33 | 34 11 | | 5 10 s. | | 10 | Azimut. Idem. | Nord. | 2 22 48 | 2 54 28 | 25 32 | 34 11 |
| | 25 31 | 34 11 | | 6 0 s. | | 1 | Amplit. Idem. | Nord. | 3 12 59 | | | |
| | 25 34 | 33 42 | 21. | 7 30 m. | | 12 | Azimut. Idem. | Est. | 0 50 0 | 0 36 16 | 25 34 | 33 41 |
| | 25 34 | 33 40 | | 7 45 m. | | 12 | Azimut. Idem. | Est. | 0 22 32 | | | |
| | 25 42 | 32 43 | | 5 8 s. | | 12 | Azimut. Idem. | Est. | 4 9 5 | 3 50 52 | 25 42 | 32 42 |
| | 25 42 | 32 42 | | 5 20 s. | | 12 | Azimut. Idem. | Est. | 3 32 40 | | | |
| | 25 42 | 31 21 | 22. | 9 30 m. | Fb. | 6 | Azimut. Idem. | E. 22. N. | 2 23 40 | | | |
| | 25 26 | 30 46 | | 5 15 s. | Lm. | 12 | Azimut. Idem. | E. 22. N. | 4 30 50 | 3 58 53 | 25 26 | 30 45 |
| | 25 26 | 30 45 | | 5 30 s. | | 10 | Azimut. Idem. | E. 22. N. | 3 26 56 | | | |

Mer houleuse, les
mouvements du vais-
seau sont forts.
Mer houleuse.

VOYAGE AUTOUR DU MONDE.

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. conclue. | RÉSULTATS MOYENS. | | REMARQUES. | | |
|---|---------------------------|-----------|--------------|--------------|----------------------|---------------------|-----------|--|------------------------|--|-------------------|-----------|------------|----------|--|
| | Latitude | Longitude | DATE. | HEURE. | OBSER- | NOMBRE | MÉTHODE | PARTIE | | | Latitude | Longitude | | | |
| | | | | | TEURS. | d'expé- riences. | employée. | où se faisait l'ex- périence. | | | | | | | |
| Suite. Traversée de Rio de Janeiro en France. | S. | O. P. | 1820. | Sept. 27. | 5 ^h 10's. | Lm. | 10 | Azimut. | G. d'arr. | E. 11°.N. | 10°19'34" | N. O. | N. O. | S. O. P. | Mer un peu grosse, mouvements du vais- seau assez vifs. Mer médiocrement grosse. |
| | 17° 0' | 25°12' | | | 5 20 s. | | 12 | Azimut. | <i>Idem.</i> | N. 11. E. | 10 12 20 | | 10°15'57" | 16° 59' | 25° 12' |
| | 16 59 | 25 12 | | | | | | | | | | | | | |
| | 15 37 | 25 27 | 28. | | 5 55 m. | | 1 | Amplit. | <i>Idem.</i> | N. 11. E. | 11 42 45 | | | | |
| | 15 28 | 25 20 | | | 7 12 m. | | 12 | Azimut. | <i>Idem.</i> | N. 11. E. | 12 8 35 | | | | |
| | 15 27 | 25 29 | | | 7 20 m. | | 14 | Azimut. | <i>Idem.</i> | N. 11. E. | 11 51 0 | 11 58 5 | 15 29 | 25 29 | |
| | 15 26 | 25 30 | | | 7 30 m. | R. | 6 | Azimut. | <i>Idem.</i> | N. 11. E. | 12 10 0 | | | | |
| | 14 26 | 25 41 | | | 5 0 s. | Lm. | 12 | Azimut. | <i>Idem.</i> | N. 11. E. | 9 24 15 | | | | |
| | 14 26 | 25 41 | | | 5 5 s. | | 12 | Azimut. | <i>Idem.</i> | N. 11. E. | 9 28 55 | 9 29 3 | 14 24 | 25 41 | |
| | 14 19 | 25 42 | | | 6 0 s. | R. | 1 | Amplit. | <i>Idem.</i> | N. 11. E. | 9 34 0 | | | | |
| | 12 45 | 25 59 | 29. | | 7 0 m. | Lm. | 10 | Azimut. | <i>Idem.</i> | N. 11. E. | 13 3 57 | | | | |
| | 12 45 | 25 59 | | | 7 5 m. | | 8 | Azimut. | <i>Idem.</i> | N. 11. E. | 12 35 5 | 12 49 31 | 12 45 | 25 59 | |
| | 9 55 | 26 3 | 30. | | 7 0 m. | | 10 | Azimut. | <i>Idem.</i> | N. 22. E. | 11 22 46 | | | | |
| | 9 55 | 26 3 | | | 7 0 m. | | 10 | Azimut. | <i>Idem.</i> | N. 22. E. | 10 36 18 | 10 59 32 | 9 55 | 26 3 | |
| | 8 48 | 25 53 | | | 5 0 s. | | 12 | Azimut. | <i>Idem.</i> | N. 22. E. | 11 30 0 | | | | |
| | 8 48 | 25 53 | Octob. 2. | | 5 5 s. | | 12 | Azimut. | <i>Idem.</i> | N. 22. E. | 11 25 55 | 11 27 57 | 8 48 | 25 53 | |
| | 4 11 | 26 3 | | | 7 10 m. | | 15 | Azimut. | <i>Idem.</i> | N. 15. E. | 13 32 40 | | | | |
| | 4 10 | 26 3 | | | 7 20 m. | | 15 | Azimut. | <i>Idem.</i> | N. 15. E. | 14 2 52 | | | | |
| | 4 9 | 26 4 | | | 7 30 m. | Fb. | 10 | Azimut. | <i>Idem.</i> | N. 15. E. | 14 12 44 | 14 3 41 | 4 10 | 26 3 | |
| | 4 9 | 26 4 | | | 7 35 m. | | 10 | Azimut. | <i>Idem.</i> | N. 15. E. | 14 26 27 | | | | |
| | 3 20 | 26 5 | | | 3 0 s. | | 10 | Azimut. | <i>Idem.</i> | N. 22. E. | 15 34 0 | | | | |
| | 3 19 | 26 5 | | | 3 10 s. | | 12 | Azimut. | <i>Idem.</i> | N. 22. E. | 15 17 20 | | | | |
| | 3 4 | 26 3 | | | 5 7 s. | Lm. | 12 | Azimut. | <i>Idem.</i> | N. 15. E. | 12 40 25 | 13 58 4 | 3 11 | 26 4 | |
| | 3 3 | 26 3 | | | 5 15 s. | | 12 | Azimut. | <i>Idem.</i> | N. 15. E. | 12 20 30 | | | | |
| | 1 20 | 25 54 | 3. | | 7 0 m. | | 12 | Azimut. | <i>Idem.</i> | N. 22. E. | 14 28 50 | | | | |
| | 1 19 | 25 54 | | | 7 5 m. | | 12 | Azimut. | <i>Idem.</i> | N. 22. E. | 14 26 15 | 14 33 2 | 1 18 | 25 54 | |
| | 1 16 | 25 54 | | | 7 30 m. | R. | 6 | Azimut. | <i>Idem.</i> | N. 22. E. | 14 44 0 | | | | |
| | N. 0 5 | 25 50 | | | 5 30 s. | | 7 | Azimut. | <i>Idem.</i> | N. 22. E. | 13 32 57 | | | | |
| | 0 5 | 25 50 | | | 5 30 s. | Lm. | 7 | Azimut. | <i>Idem.</i> | N. 22. E. | 13 23 9 | 13 28 3 | 0 5 | 25 50 | |
| | 1 51 | 25 45 | 4. | | 6 0 m. | | 1 | Amplit. | <i>Idem.</i> | N. 22. E. | 15 6 55 | | | | |
| | 2 0 | 25 44 | | | 7 7 m. | | 10 | Azimut. | <i>Idem.</i> | N. 22. E. | 14 2 34 | 14 12 32 | 1 57 | 25 44 | |
| | 2 1 | 25 44 | | | 7 15 m. | | 10 | Azimut. | <i>Idem.</i> | N. 22. E. | 13 28 6 | | | | |

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | | REMARQUES. | | | | |
|---|---------------------------|-----------|---------|----------|---------------------|-------------------------------|----------------------|------------------------|--|---------------------------|-----------|---------------------------|------------|---------|--|--|--|
| | | | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | | | DÉCLINAIS- ON CONCLUE. | | POSITION géographique. | | | | | |
| | Latitude | Longitude | | | | | | | | DÉCLINAIS- ON CONCLUE. | Latitude. | Longitude | | | | | |
| Suite. Traversée de Rio de Janeiro en France. | N. | O. P. | 1820. | | | | | | N. O. | N. O. | N. | O. P. | | | | | |
| | 3°12' | 25°46' | Octob. | 4. | 5 ^h 7's. | Lm. | 10 | Azimut. | Gaillard d'arr. | N. 11° E. | 13°39'24" | | | | | | |
| | 3 13 | 25 46 | | | 5 15 s. | | 10 | Azimut. | Idem. | N. 11. E. | 12 58 24 | 13°18'54 | 3° 12' | 25° 46' | | | |
| | 5 49 | 26 10 | | 5. | 5 6 s. | | 10 | Azimut. | Idem. | Nord. | 13 51 8 | | | | | | |
| | 5 49 | 26 10 | | | 5 12 s. | | 8 | Azimut. | Idem. | Nord. | 13 17 47 | 13 31 38 | 5 50 | 26 10 | | | |
| | 5 53 | 26 11 | | | 5 55 s. | | 1 | Amplit. | Idem. | Nord. | 13 26 0 | | | | | | |
| | 8 33 | 26 33 | 7. | 10 0 m. | Fb. | 12 | Azimut. | Idem. | Nord. | 10 56 0 | | | | | | | |
| | 8 33 | 26 33 | | 10 10 m. | | 12 | Azimut. | Idem. | Nord. | 10 59 33 | 10 57 46 | 8 33 | 26 33 | | | | |
| | 8 46 | 26 32 | | | 1 50 s. | | 12 | Azimut. | Idem. | Nord. | 10 52 30 | | | | | | |
| | 8 46 | 26 32 | | | 2 5 s. | | 12 | Azimut. | Idem. | Nord. | 10 46 15 | 10 49 22 | 8 46 | 26 32 | | | |
| | 9 35 | 26 25 | 8. | 8 0 m. | Lm. | 12 | Azimut. | Idem. | Nord. | 17 26 35 | | | | | | | |
| | 9 35 | 26 25 | | | 8 5 m. | | 11 | Azimut. | Idem. | Nord. | 17 21 10 | | | | | | |
| | 9 35 | 26 25 | | | 8 10 m. | R. | 6 | Azimut. | Idem. | Nord. | 16 19 0 | 17 2 15 | 9 35 | 26 25 | | | |
| | 9 35 | 26 24 | | | 8 20 m. | Db. | 6 | Azimut. | Idem. | Nord. | 16 55 0 | | | | | | |
| | 12 43 | 28 1 | 11. | 6 15 m. | Lm. | 1 | Amplit. | Idem. | N. 34. O. | 13 54 25 | | | | | | | |
| | 12 47 | 28 7 | | 7 40 m. | | 10 | Azimut. | Idem. | N. 34. O. | 14 47 34 | 14 33 26 | 12 46 | 28 5 | | | | |
| | 12 48 | 28 8 | | 7 50 m. | | 12 | Azimut. | Idem. | N. 34. O. | 14 58 20 | | | | | | | |
| | 13 15 | 28 44 | | | 5 25 s. | | 10 | Azimut. | Idem. | N. 34. O. | 14 20 24 | | | | | | |
| | 13 15 | 28 44 | | | 5 30 s. | | 10 | Azimut. | Idem. | N. 34. O. | 14 21 50 | 14 14 38 | 13 16 | 28 45 | | | |
| | 13 16 | 28 46 | | | 5 50 s. | | 1 | Amplit. | Idem. | N. 34. O. | 14 1 41 | | | | | | |
| | 13 58 | 29 47 | 12. | 6 14 m. | | 1 | Amplit. | Idem. | N. 34. O. | 14 4 40 | | | | | | | |
| | 14 1 | 29 50 | | 7 18 m. | Lm. | 12 | Azimut. | Idem. | N. 22. O. | 14 36 15 | | | | | | | |
| | 14 1 | 29 50 | | 7 22 m. | | 12 | Azimut. | Idem. | N. 22. O. | 14 54 55 | 15 9 35 | 14 3 | 29 54 | | | | |
| | 14 7 | 30 0 | | 9 50 m. | Fb. | 12 | Azimut. | Idem. | N. 34. O. | 16 9 20 | | | | | | | |
| | 14 8 | 30 1 | | 10 0 m. | | 12 | Azimut. | Idem. | N. 34. O. | 16 2 45 | | | | | | | |
| | 14 34 | 30 30 | | | 4 50 s. | Lm. | 8 | Azimut. | Idem. | N. 34. O. | 13 25 12 | | | | | | |
| | 14 35 | 30 31 | | | 5 0 s. | | 12 | Azimut. | Idem. | N. 34. O. | 13 48 55 | 13 37 3 | 14 34 | 30 30 | | | |
| | 15 42 | 31 28 | 13. | 7 30 m. | R. | 6 | Azimut. | Idem. | N. 22. O. | 16 14 0 | | | | | | | |
| | 15 43 | 31 28 | | 7 40 m. | Db. | 6 | Azimut. | Idem. | N. 22. O. | 15 20 40 | | | | | | | |
| | 15 44 | 31 29 | | 7 50 m. | Lm. | 10 | Azimut. | Idem. | N. 22. O. | 15 23 50 | 15 45 18 | 15 43 | 31 29 | | | | |
| | 15 45 | 31 30 | | 8 0 m. | | 10 | Azimut. | Idem. | N. 22. O. | 16 2 44 | | | | | | | |
| | 16 30 | 32 7 | | | 4 45 s. | | 10 | Azimut. | Idem. | N. 22. O. | 12 36 32 | | | | | | |
| | 16 33 | 32 9 | | | 5 15 s. | | 12 | Azimut. | Idem. | N. 22. O. | 12 55 50 | 12 46 11 | 16 31 | 32 8 | | | |
| | 17 46 | 33 8 | 14. | 7 35 m. | | 12 | Azimut. | Idem. | N. 22. O. | 14 5 55 | | | | | | | |
| | 17 46 | 33 8 | | 7 40 m. | | 12 | Azimut. | Idem. | N. 22. O. | 14 59 51 | 14 19 35 | 17 46 | 33 8 | | | | |
| | 17 47 | 33 8 | | 7 50 m. | | 12 | Azimut. | Idem. | N. 11. O. | 13 53 0 | | | | | | | |

VOYAGE AUTOEUR DU MONDE.

| PARAGE où se trouvait le vaisseau. | POSITION GÉOGRAPHIQUE. | | ÉPOQUE. | | INDICATIONS. | | | CAP du VAISSEAU. | DÉCLINAISON de l'aiguille aimantée. | RÉSULTATS MOYENS. | | | REMARQUES. |
|---|---------------------------|-----------|---------|--------|----------------------|-------------------------------|----------------------|------------------------|--|--------------------------------|---------------------------|-----------|------------|
| | | | DATE. | HEURE. | OBSER- VATEURS. | NOMBRE d'expé- riences. | MÉTHODE employée. | | | DÉCLINAISON SON conclue. | POSITION GÉOGRAPHIQUE. | | |
| | Latitude | Longitude | | | | | | | | | Latitude | Longitude | |
| Suite. Traversée de Rio de Janeiro en France. | N. | O. P. | 1820. | | | | | | | N. O. | N. O. | N. | O. P. |
| | 20°15' | 34° 33' | Octob. | 15. | 7 ^h 55'm. | Lm. | 12 | Azimut. | Gaillard d'arr. | N. 11°.0. | 14° 3' 0" | | |
| | 22 50 | 35 39 | | 16. | 7 35 m. | | 10 | Azimut. | Idem. | Nord. | 14 11 35 | | |
| | 22 50 | 35 39 | | | 7 40 m. | | 10 | Azimut. | Idem. | Nord. | 14 22 44 | 14° 17' 9 | 22° 50' |
| | 25 35 | 35 55 | | 17. | 7 35 m. | | 12 | Azimut. | Idem. | N. 15. E. | 15 55 45 | | |
| | 25 35 | 35 55 | | | 7 40 m. | | 12 | Azimut. | Idem. | N. 15. E. | 15 51 55 | | |
| | 25 51 | 35 55 | | | 9 50 m. | Fb. | 12 | Azimut. | Idem. | N. 15. E. | 13 16 40 | 14 34 36 | 25 43 |
| | 25 52 | 35 55 | | | 10 0 m. | | 12 | Azimut. | Idem. | N. 15. E. | 13 14 5 | | |
| | 28 12 | 35 54 | 18. | | 8 0 m. | R. | 6 | Azimut. | Idem. | N. 15. E. | 18 51 0 | 19 3 25 | 28 12 |
| | 28 13 | 35 54 | | | 8 15 m. | Db. | 6 | Azimut. | Idem. | N. 15. E. | 19 15 50 | | |
| | 28 58 | 35 57 | | | 4 55 s. | Lm. | 12 | Azimut. | Idem. | N. 15. E. | 17 2 20 | | |
| | 28 58 | 35 57 | | | 4 55 s. | | 12 | Azimut. | Idem. | N. 15. E. | 17 28 30 | | |
| | 30 17 | 36 2 | 19. | | 7 50 m. | | 12 | Azimut. | Idem. | N. 15. E. | 19 5 25 | | |
| | 30 17 | 36 2 | | | 7 55 m. | | 12 | Azimut. | Idem. | N. 15. E. | 19 17 0 | 19 11 12 | 30 17 |
| | 31 0 | 36 0 | | | 4 50 s. | | 10 | Azimut. | Idem. | N. 15. E. | 17 33 14 | | |
| | 31 1 | 36 0 | | | 5 0 s. | | 10 | Azimut. | Idem. | N. 15. E. | 17 50 40 | | |
| | 31 1 | 36 0 | | | 5 0 s. | G. | 5 | Azimut. | Idem. | N. 15. E. | 17 30 40 | 17 46 7 | 31 1 |
| | 31 2 | 36 0 | | | 5 30 s. | | 1 | Amplit. | Idem. | N. 15. E. | 18 8 0 | | |
| | 31 2 | 36 0 | | | 5 30 s. | Fr. | 4 | Azimut. | Idem. | N. 15. E. | 17 48 0 | | |
| | 31 25 | 35 54 | 20. | | 6 15 m. | Lm. | 1 | Amplit. | Idem. | N. 15. E. | 19 20 0 | | |
| | 31 52 | 35 10 | 21. | | 6 2 m. | | 1 | Amplit. | Idem. | E. 22. N. | 19 26 35 | | |
| | 34 40 | 35 30 | 22. | | 10 0 m. | Fb. | 12 | Azimut. | Idem. | Nord. | 17 54 45 | | |
| | 34 40 | 35 30 | | | 10 10 m. | | 12 | Azimut. | Idem. | Nord. | 18 6 55 | 18 0 50 | 34 40 |
| | 35 52 | 35 43 | 23. | | 6 40 m. | | 1 | Amplit. | Idem. | N. 22. E. | 21 9 15 | | |
| | 35 54 | 35 45 | | | 8 50 m. | R. | 6 | Azimut. | Idem. | N. 22. E. | 23 17 0 | 21 51 48 | 35 53 |
| | 35 54 | 35 45 | | | 9 0 m. | Db. | 6 | Azimut. | Idem. | N. 22. E. | 21 9 10 | | |
| | 36 19 | 35 31 | 24. | | 8 10 m. | G. | 6 | Azimut. | Idem. | N. 22. E. | 19 47 35 | | |
| | 36 19 | 35 31 | | | 8 15 m. | Fr. | 6 | Azimut. | Idem. | N. 22. E. | 20 28 0 | 20 7 47 | 36 19 |
| | 37 6 | 34 27 | 25. | | 8 4 m. | | 13 | Azimut. | Idem. | Est. | 25 28 21 | | |
| | 37 6 | 34 27 | | | 8 8 m. | | 13 | Azimut. | Idem. | Est. | 25 34 0 | 24 56 18 | 37 6 |
| | 37 6 | 34 26 | | | 8 18 m. | | 11 | Azimut. | Idem. | Nord. | 24 37 58 | | |
| | 37 7 | 34 26 | | | 8 24 m. | | 12 | Azimut. | Idem. | Nord. | 24 4 51 | | |
| | 37 42 | 33 58 | | | 5 0 s. | | 1 | Amplit. | Idem. | E. 34. N. | 23 24 32 | | |

CHAPITRE VII.

DÉTERMINATION DE L'AZIMUT DES MIRES, A NOS OBSERVATOIRES.

| NOM de l'observatoire. | | RIO DE JANEIRO (1 ^{er} OBSERVATOIRE), BRÉSIL. | | |
|---|---------------------------|--|--------------------|--|
| | ÉPOQUE. | AZIMUT VRAI de la mire. | | REMARQUES. |
| | | DATE. | HEURE. | |
| Dp. | 1817. Décembre. 24. | | Du N. à l'E. | |
| | | 8 ^h 20'm. | 2°24'51",0 | Plate-forme de l'Est. — La mire était le pied du mât de pavillon du château. |
| | | 8 26 m. | 2 27 13 ,0 | |
| | | 8 32 m. | 2 27 49 ,0 | |
| | Moyenne..... | | 2 26 37 ,7 | |
| RIO DE JANEIRO (2 ^e OBSERVATOIRE), BRÉSIL. | | | | |
| Lc. | 1818. Janvier. 3. | | Du N. à l'E. | |
| | | 4 31 s. | 2 10 48 ,7 | Plate-forme du Nord. — La mire était le pied de la croix, au sommet de la chapelle de Santa-Lucia. |
| | | 4 38 s. | 2 14 29 ,3 | |
| | | 4 45 s. | 2 12 34 ,6 | |
| | Moyenne..... | | 2 9 33 ,3 | |
| CAPE-TOWN (CAP DE BONNE-ESPÉRANCE). | | | | |
| G. Fb. | 1818. Mars. 12. | | Du N. vers l'O. | |
| | | 6 28 m. | 14 59 6 ,7 | La mire était le pied d'une girouette, sur une maison éloignée. |
| | | 6 48 m. | 14 53 20 ,0 | |
| | | 6 52 m. | 14 52 8 ,2 | |
| | Dp. | 7 16 m. | 14 30 10 ,0 | |
| Lc. | 14. | 4 8 s. | 14 35 4 ,0 | |
| | | 7 27 m. | 14 33 49 ,0 | |
| | | 7 32 m. | 14 33 0 ,0 | |
| | | 7 36 m. | 14 34 8 ,0 | |
| | Fb. | 11 17 m. | 14 46 27 ,0 | |
| Dp. | 16. | 11 21 m. | 14 41 26 ,0 | |
| | | 2 39 s. | 14 32 49 ,6 | |
| | | 2 41 s. | 14 48 0 ,4 | |
| | | 8 35 m. | 14 30 0 ,0 | |
| | G. | 4 0 s. | 14 35 40 ,0 | |
| Fb. | 20. | 7 27 m. | 14 47 22 ,0 | |
| | | 7 7 m. | 14 48 31 ,0 | |
| | | 7 11 m. | 14 46 21 ,5 | |
| | | 7 2 m. | 14 49 47 ,0 | |
| | Dp. | 7 5 m. | 14 49 43 ,0 | |
| Fb. | 22. | 7 8 m. | 14 39 32 ,0 | |
| | | 7 10 m. | 14 43 52 ,0 | |
| | | 7 25 m. | 14 51 38 ,0 | |
| | | 7 29 m. | 14 51 27 ,0 | |
| | Moyenne..... | | 14 43 11 ,4 | |

| BAIE DES CHIENS-MARINS, PRESQU'ILE PÉRON (NOUVELLE-HOLLANDE). | | | | |
|--|--------------------|----------------------------|---------------------------------------|---|
| NOM DES OBSERVATEURS. | ÉPOQUE. | | AZIMUT VRAI de la mire. | REMARQUES. |
| | DATE. | HEURE. | | |
| Lc. | 1818. Septembr. | 19. 3 ^h 5 s. | Mire du S. vers l'O. 2°19'33",0 | Azimut du Sud à l'Ouest. |
| R. | | 3 11 s. | 2 20 48 ,0 | |
| | | 3 19 s. | 2 31 30 ,0 | La mire était un jalon, planté à grande distance. |
| Lc. | | 3 25 s. | 2 32 40 ,0 | |
| Lc. | 20. | 3 38 s. | 2 21 37 ,0 | |
| R. | | 3 44 s. | 2 23 13 ,0 | |
| R. | | 3 57 s. | 2 32 25 ,0 | |
| Lc. | | 4 0 s. | 2 34 20 ,0 | |
| Lc. | 21. | 7 33 m. | 2 30 52 ,0 | |
| R. | | 7 39 m. | 2 28 12 ,0 | |
| R. | | 7 48 m. | 2 15 0 ,0 | |
| G. | 22. | 7 57 m. | 2 13 10 ,0 | |
| Fb. | | Matin. | 2 30 17 ,0 | |
| Fb. | | Soir. | 2 22 4 ,0 | |
| B. | | Idem. | 2 21 35 ,0 | |
| B. | | Idem. | 2 19 50 ,0 | |
| Fb. | 24. | Idem. | 2 27 0 ,0 | |
| P. | | Idem. | 2 27 24 ,0 | |
| P. | | Idem. | 2 28 8 ,0 | |
| P. | | Idem. | 2 18 1 ,0 | |
| P. | | Idem. | 2 20 16 ,0 | |
| Moyenne..... | | | 2 24 39 ,8 | |
| COUPANG (ILE TIMOR). | | | | |
| Dp. | 1818. Octobre. | | Mire du S. vers l'E. | |
| Dp. | | 13. | 34 35 26 ,0 | Azimut du Sud à l'Est. |
| Fb. | | 6 48 m. | 34 35 11 ,7 | |
| Dp. | | 14. | 34 33 30 ,0 | |
| | | Idem. | 34 33 0 ,0 | |
| Fb. | | 16. | 34 34 35 ,0 | |
| Fb. | | 18. | 34 33 29 ,0 | |
| Db. | | 7 25 m. | 34 33 26 ,0 | |
| Fb. | | 7 30 m. | 34 39 44 ,0 | |
| Fb. | | 4 0 s. | 34 39 19 ,0 | |
| Db. | | 4 5 s. | 34 35 29 ,0 | |
| Dp. | | 19. | 34 35 7 ,0 | |
| Dp. | | 6 40 m. | 34 35 24 ,0 | |
| | | 6 45 m. | 34 37 14 ,0 | |
| | | 3 59 s. | 34 38 34 ,0 | |
| Lc. | | 4 0 s. | 34 37 54 ,0 | |
| Lc. | | 4 1 s. | 34 38 14 ,0 | |
| Lc. | | 4 3 s. | 34 38 24 ,0 | |
| Lc. | 20. | 4 4 s. | 34 35 52 ,0 | |
| Lc. | | 7 0 m. | 34 35 56 ,0 | |
| Lc. | | 7 10 m. | 34 38 42 ,5 | |
| Lc. | | 3 30 s. | 34 38 41 ,0 | |
| Lc. | | 3 34 s. | | |
| Moyenne..... | | | 34 36 20 ,6 | |
| DILLÉ (ILE TIMOR). | | | | |
| Dp. | 1818. Novembre | 19. | Mire du N. vers l'E. 0 10 17 ,0 | |
| Dp. | | | 0 9 55 ,0 | Azimut du Sud à l'Est, observé dans le jardin du gouverneur. |
| Dp. | | | 0 10 47 ,0 | |
| Moyenne..... | | | 0 10 19 ,7 | La mire était une coupure entre les terres de l'île Cambing. |

| RAWAK (ILES DES PAPOUS). | | | | |
|----------------------------|-------------------|---------|-------------------------------|------------------------|
| NOM DES OBSERVATEURS. | ÉPOQUE. | | AZIMUT VRAI de la mire. | REMARQUES. |
| | DATE. | HEURE. | | |
| R. | 1818. Décembre | 19. | 76°20'26",0 | Azimut du Sud à l'Est. |
| R. | | 4 15 s. | 76 20 56 ,0 | |
| G. | 20. | 8 7 m. | 76 19 47 ,4 | |
| R. | | 8 15 m. | 76 18 57 ,0 | |
| R. | | 8 15 m. | 76 17 47 ,0 | |
| Fb. | 21. | 4 24 s. | 76 14 43 ,5 | |
| Fb. | | 5 7 s. | 76 18 12 ,5 | |
| | 22. | Matin. | 76 15 52 ,5 | |
| | | 6 58 m. | 76 15 23 ,5 | |
| | | 7 0 m. | 76 17 0 ,5 | |
| | | 7 1 m. | 76 17 27 ,5 | |
| | | 6 58 m. | 76 15 45 ,5 | |
| | | 7 1 m. | 76 17 30 ,1 | |
| B. | 23. | 8 0 m. | 76 17 32 ,0 | |
| B. | | 8 3 m. | 76 12 52 ,0 | |
| B. | | 8 5 m. | 76 12 42 ,0 | |
| B. | | 8 9 m. | 76 20 12 ,0 | |
| B. | | 8 13 m. | 76 13 52 ,0 | |
| B. | | 4 15 s. | 76 14 48 ,0 | |
| B. | | 4 13 s. | 76 13 38 ,0 | |
| B. | | 4 20 s. | 76 13 58 ,0 | |
| G. | 25. | Matin. | 76 19 3 ,0 | |
| G. | | Idem. | 76 19 13 ,0 | |
| G. | | Soir. | 76 18 47 ,0 | |
| Lm. | 26. | 8 12 m. | 76 17 22 ,5 | |
| Lm. | | 8 14 m. | 76 16 57 ,5 | |
| Lm. | | 8 16 m. | 76 15 27 ,5 | |
| Lm. | | 8 18 m. | 76 13 2 ,5 | |
| Lm. | | 8 20 m. | 76 15 42 ,5 | |
| Lm. | | 8 22 m. | 76 15 22 ,7 | |
| Fb. | | Matin. | 76 16 10 ,0 | |
| Fb. | | Idem. | 76 16 21 ,7 | |
| Fb. | | Idem. | 76 14 27 ,7 | |
| Fb. | | Idem. | 76 17 37 ,7 | |
| Fb. | | Idem. | 76 16 7 ,5 | |
| Fb. | | Idem. | 76 15 57 ,7 | |
| Fb. | | Idem. | 76 15 37 ,7 | |
| B. | 27. | Matin. | 76 18 38 ,0 | |
| B. | | Idem. | 76 15 8 ,0 | |
| B. | | Idem. | 76 12 58 ,0 | |
| B. | | Idem. | 76 14 58 ,0 | |
| B. | | Idem. | 76 14 18 ,0 | |
| B. | | Idem. | 76 14 38 ,0 | |
| | Moyenne..... | | 76 16 25 ,6 | |

| NOM DES OBSERVATEURS. | AGAGNA, ILE GUAM (ARCHIPEL DES MARIANNES). | | | |
|--------------------------|--|--------|--|------------|
| | ÉPOQUE. | | AZIMUT VRAI de la mire. | REMARQUES. |
| | DATE. | HEURE. | | |
| | 1819. | | Du N. à l'O. | |
| | Avril. | | | |
| R. | 23. | Soir. | 87°38'35",0 87 38 33 ,0 87 38 29 ,0 87 38 30 ,0 | |
| P. | | Matin. | 87 37 0 ,0 87 37 15 ,0 | |
| | 24. | Soir. | 87 39 15 ,0 87 39 35 ,0 | |
| Lm. | | | 87 38 30 ,0 87 40 19 ,0 | |
| | 25. | Matin. | 87 35 56 ,0 87 34 35 ,5 | |
| P. | | | 87 33 29 ,0 87 33 39 ,0 | |
| Lm. | | Soir. | 87 37 0 ,0 87 36 46 ,1 | |
| P. | | | 87 36 10 ,0 87 35 30 ,0 | |
| Lm. | 26. | Soir. | 87 37 19 ,0 87 37 11 ,7 | |
| P. | | | 87 37 27 ,0 87 37 5 ,0 | |
| Lm. | 27. | Matin. | 87 34 59 ,3 87 34 39 ,5 | |
| P. | | | 87 32 49 ,0 87 32 54 ,0 | |
| Lm. | | Soir. | 87 37 22 ,0 87 37 56 ,5 | |
| P. | | | 87 37 45 ,0 87 37 30 ,0 | |
| Lm. | 28. | Matin. | 87 37 14 ,0 87 35 44 ,0 | |
| | 29. | Matin. | 87 39 15 ,5 87 40 15 ,5 | |
| P. | | | 87 39 48 ,0 87 38 0 ,0 | |
| Lm. | 30. | Matin. | 87 39 34 ,5 87 37 34 ,0 | |
| P. | | | 87 38 48 ,0 | |
| | Mai. | | | |
| Lm. | 4. | Matin. | 87 36 32 ,0 87 36 52 ,0 | |
| P. | | | 87 40 54 ,0 87 37 4 ,0 | |
| B. | | | 87 36 43 ,0 87 36 17 ,0 | |
| Lm. | | Soir. | 87 38 58 ,0 87 40 13 ,0 | |
| | | | 87 37 41 ,0 87 37 38 ,0 | |
| | | | 87 37 55 ,0 | |
| | | | | |
| | Moyenne.... | | 87°37' 2",0 | |

VOYAGE AUTOUR DU MONDE.

| KEYROUA, ILE OWHYHIE (ARCHIP. DES SANDWICH). | | | | |
|--|-----------------------|-----------------------|-------------------------------|-------------|
| NOM DES OBSERVATEURS. | ÉPOQUE. | | AZIMUT VRAI de la mire. | REMARQUES. |
| | DATE. | HEURE. | | |
| Dp. | 1819. Août. 9. | Soir. | Du S. à l'O. | |
| | | | 64°12'17",0 | |
| | | | 63 55 9,0 | |
| | | | 64 16 10,0 | |
| | | | 63 53 30,0 | |
| | | | 64 6 48,0 | |
| | | | 64 8 22,0 | |
| | | | 64 7 52,0 | |
| | | | 64 7 52,0 | |
| | | | 64 8 22,0 | |
| | | | 64 11 37,0 | |
| | | | 64 9 30,0 | |
| | | | 64 10 13,0 | |
| | | | 64 8 42,0 | |
| | | | 64 6 32,0 | |
| | | | 64 8 12,0 | |
| | | | 64 8 34,0 | |
| | | | 64 9 2,0 | |
| | | | 64 8 32,0 | |
| G. | 10. | | 64 9 42,0 | |
| | | | 64 8 52,0 | |
| | | | 64 7 32,0 | |
| | | | 64 6 52,0 | |
| | | | Moyenne.... | 64° 7'44",3 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| KOHAI-HAI, ILE OWHYHIE (ARCHIP. DES SANDWICH). | | | | |
| Lm. | 1819. Août. 13. | 3 ^h 30' s. | Du S. à l'E. | |
| | | | 6° 7'18",0 | |
| | | | 6 5 26,0 | |
| | | | 6 7 19,0 | |
| | | | 6 4 58,0 | |
| | | | 6 5 18,0 | |
| | | | 6 4 52,0 | |
| | | | 6 5 24,0 | |
| | | | 6 4 54,0 | |
| | | | 6 4 44,0 | |
| | | | 6 5 58,0 | |
| | | | 5 56 25,0 | |
| | | | 5 56 49,0 | |
| | | | 5 55 54,0 | |
| | | | 5 56 59,0 | |
| | | | 5 56 49,0 | |
| | | | 5 57 5,0 | |
| | | | 6 0 39,0 | |
| | | | 6 0 14,0 | |
| | | | 6 0 59,0 | |
| | | | 5 59 44,0 | |
| | | | 5 59 24,0 | |
| | | | 6 0 24,0 | |
| | | | Moyenne.... | 6° 1'42",5 |

| OBSERVATOIRE DE RAHEINA, ILE MOWI (ARCHIPEL DES SANDWICH). | | | | |
|--|-----------------------|-----------------------|-------------------------------|-------------|
| NOM DES OBSERVATEURS. | ÉPOQUE. | | AZIMUT VRAI de la mire. | REMARQUES. |
| | DATE. | HEURE. | | |
| Lm. | 1819. Août. 17. | 4 ^h soir. | Du N. à l'E. | |
| Db. | | | 23°26'37",0 | |
| Lm. | 18. | Matin. | 23 28 27,0 | |
| Fb. | | | 23 28 35,0 | |
| Lm. | | | 23 20 12,0 | |
| Fb. | | | 23 16 23,0 | |
| | | | 23 29 10,0 | |
| | | | 23 30 5,0 | |
| | | | 23 20 37,5 | |
| | | | 23 10 1,0 | |
| | | | 23 26 1,0 | |
| | | | 23 26 9,0 | |
| | | | 23 29 54,5 | |
| | | | 23 31 30,5 | |
| | | | Moyenne.... | 23°24'54",0 |
| ONOROUROU, ILE WOAHOU (ARCHIP. DES SANDWICH). | | | | |
| R. | 1819. Août. 27. | 3 ^h 35' s. | Du S. à l'E. | |
| B. | | | 8°16'11",0 | |
| R. | 28. | Soir. | 8 15 51,0 | |
| B. | | | 8 16 6,0 | |
| | | | 8 15 36,0 | |
| | | | 8 15 21,0 | |
| | | | 8 15 26,0 | |
| | | | 8 14 1,0 | |
| | | | 8 11 10,0 | |
| | | | 8 13 40,0 | |
| | | | 8 14 1,0 | |
| | | | 8 12 51,0 | |
| | | | 8 12 41,0 | |
| | | | 8 6 41,0 | |
| | | | 8 11 21,0 | |
| | | | 8 11 1,0 | |
| | | | 8 13 41,0 | |
| | | | 8 12 26,0 | |
| | | | 8 11 41,0 | |
| | | | 8 16 45,0 | |
| | | | 8 16 41,0 | |
| | | | 8 17 1,0 | |
| | | | 8 17 1,0 | |
| | | | 8 17 41,0 | |
| | | | 8 17 31,0 | |
| | | | 8 19 1,0 | |
| | | | 8 19 42,0 | |
| | | | 8 19 11,9 | |
| | | | 8 19 16,0 | |
| | | | 8 19 51,0 | |
| | | | 8 20 21,0 | |
| | | | Moyenne.... | 8°15'19",6 |

| NOM DES OBSERVATOIRES | SYDNEY, PORT-JACKSON (NOUVELLE-HOLLANDE). | | |
|--------------------------|---|--------------|--|
| | ÉPOQUE. | | AZIMUT VRAI de la mire. |
| | DATE. | HEURE. | |
| Dp. | 1819. Novembre 29. | Matin. | Du S. à l'E. 93° 33' 40" 93 33 13 93 34 38 93 34 55 93 33 55 93 34 20 93 35 50 93 35 35 93 34 55 |
| R. | 29. | 6° 58'm. | 93 35 45 93 35 15 93 34 15 93 33 30 93 33 30 93 34 30 93 34 10 93 33 40 93 37 45 93 32 5 93 31 45 93 38 5 |
| Db. | 29. | 7 35 m. | 93 38 22 93 34 15 93 38 30 93 39 36 |
| Dp. | 30. | <i>Idem.</i> | 93 35 35 93 34 45 93 34 55 93 34 5 93 34 5 93 35 35 93 34 25 93 35 5 93 35 25 93 35 35 |
| Db. | 30. | <i>Idem.</i> | 93 36 39 93 33 34 93 36 28 93 36 32 93 35 34 |
| Dp. | Décembre. 1°. | Matin. | 93 34 45 93 34 45 94 34 35 |

| NOM DES OBSERVATOIRES | Suite. SYDNEY, PORT-JACKSON (NOUV.-HOLLANDE). | | |
|--------------------------|---|--------------|---|
| | ÉPOQUE. | | AZIMUT VRAI de la mire. |
| | DATE. | HEURE. | |
| Dp. | 1819. Décembre. 1°. | Matin. | Du S. à l'E. 93° 34' 5" 93 34 35 93 34 5 93 34 25 93 34 45 93 34 35 93 34 55 93 34 35 93 35 5 93 34 25 93 34 25 93 34 45 93 34 45 |
| Db. | 1°. | <i>Idem.</i> | 93 34 23 93 34 9 93 36 39 93 36 5 93 34 3 93 34 27 |
| Dp. | 2. | <i>Idem.</i> | 93 33 9 93 32 24 93 32 4 93 32 34 93 33 39 93 33 24 93 34 4 93 33 34 93 33 54 93 34 4 93 33 54 93 34 4 93 34 17 93 33 34 93 34 29 93 33 44 |
| Db. | 2. | <i>Idem.</i> | 93 33 58 93 34 21 93 33 23 93 34 31 93 34 2 93 33 59 |
| Moyenne.... | | | 93° 34' 37',6 |

| BAIE-FRANÇAISE, ILE CONTI (ARCHIPEL DES MALOUINES). | | | |
|--|-----------------------|------------------------|---|
| NOM DES OBSERVATEURS. | ÉPOQUE. | | REMARQUES. |
| | DATE. | HEURE. | |
| B. | 1820. Mars. 24. | 9 ^h 38' m. | Du S. à l'O. |
| | | | 3° 11' 13" 3 11 38 3 10 38 |
| | | Soir. | 3 13 33 3 13 43 3 14 0 |
| | 25. | Matin. | 3 13 8 3 12 33 3 12 8 3 12 33 |
| Fb. | 27. | Soir. | 3 13 15 3 11 34 3 11 58 3 13 53 |
| Fr. | 29. | Matin. | 3 15 39 3 16 47 3 11 13 |
| | | Soir. | 3 12 27 3 17 26 3 17 25 |
| | Moyenne..... | | 3° 13' 20",2 |
| MONTEVIDEO (RIO DE LA PLATA.) | | | |
| B. | 1820. Mai. 26. | 10 ^h 17' m. | Du S. à l'E. |
| | | | 45° 57' 22",0 45 57 12 ,0 45 56 32 ,0 45 57 42 ,0 45 57 22 ,0 |
| R. | 27. | Matin. | 45 59 7 ,0 45 57 45 ,0 45 57 6 ,0 45 56 42 ,0 |
| Fb. | 29. | <i>Idem.</i> | 45 58 38 ,5 45 57 52 ,5 45 57 50 ,5 45 57 14 ,5 45 57 3 ,5 45 56 31 ,5 45 57 2 ,5 |
| | Moyenne..... | | 45° 57' 26",4 |

| RIO DE JANEIRO (BRÉSIL). 2 ^e RELACHE. (1 ^e MIRE.) | | | |
|--|--------------------------|--------------|---|
| NOM DES OBSERVATEURS. | ÉPOQUE. | | REMARQUES. |
| | DATE. | HEURE. | |
| Dp. | 1820. Juillet. 20. | Matin. | Du S. à l'E. |
| | | | 137° 7' 15" 137 7 39 137 7 44 137 6 28 137 6 14 137 6 30 137 8 34 137 7 13 137 6 58 137 7 14 137 6 30 137 5 36 137 5 46 137 6 32 137 5 52 137 5 52 137 5 34 137 5 30 137 6 22 137 6 4 137 8 59 137 9 45 137 8 57 137 7 42 137 6 47 137 6 5 137 7 16 137 8 59 137 8 15 137 9 39 137 6 45 137 6 16 137 6 39 137 6 31 137 6 52 137 6 33 137 6 34 137 7 5 137 6 57 137 7 4 |
| | 22. | <i>Idem.</i> | |
| | 24. | Soir. | |
| | 25. | Matin. | |
| RIO DE JANEIRO (BRÉSIL). 2 ^e RELACHE. (2 ^e MIRE.) | | | |
| Dp. | 1820. Août. 5. | Soir. | Du N. à l'E. |
| | | | 83° 3' 14" 83 3 0 83 3 52 83 3 18 83 3 38 83 4 12 83 4 16 83 3 42 83 4 18 83 4 14 |
| | 7. | Matin. | |
| | Moyenne | | 83° 3' 46",4 |

CHAPITRE VIII.

DISCUSSION SUR L'ÉQUATEUR MAGNÉTIQUE.

S I. — *Remarques à ce sujet.*

Les plus anciennes observations d'inclinaison dont nous ayons fait usage pour tracer une portion de l'équateur magnétique remontent à l'année 1766 et sont dues à Le Gentil; son voyage dans l'Inde y donna lieu, et servit aussi à déterminer une partie de l'équateur magnétique dans l'Océan Atlantique, entre les longitudes $0^{\circ} 9'$. E., et $20^{\circ} 0'$. O. de Paris. Les données recueillies pendant sa navigation dans les mers orientales s'étendent jusqu'à 1771, époque où il fit son retour en France. Des documents antérieurs, dus au même observateur, correspondaient à des inclinaisons trop fortes pour pouvoir en déduire convenablement des points de cette courbe; et les autres n'ont pu même servir à tracer les parties de cet équateur que depuis 78° jusqu'à 119° de longitude orientale de Paris.

Le capitaine Panton fit aussi des observations magnétiques intéressantes, entre Trinquemalé, sur l'île Ceylan, et la côte d'Abyssinie, qui nous ont permis de tracer l'équateur dont il s'agit depuis 40° jusqu'à 79° de longitude orientale.

Dalrymple, pendant un voyage qu'il fit dans l'Inde en 1775, observa un assez grand nombre d'inclinaisons sur l'Océan Atlantique et la mer des Indes, qui ont pu aussi être rapportées à l'équateur magnétique, dans les parages à peu près où avait observé Le Gentil.

Cook, dans son troisième voyage, de 1776-1780, a fait à bord de la *Résolution* et de la *Discovery* un nombre très-considérable d'observations d'inclinaison, propres à déterminer la position de l'équateur magnétique dans l'Océan Atlantique, entre 38° de longitude occidentale et 1° de longitude orientale; dans les mers de l'Inde et de Chine, entre 101° et 114° de longitude orientale, et dans le Grand-Océan depuis 127° jusqu'à 210° aussi de longitude orientale.

Deux moyens se présentaient pour déduire l'équateur magnétique de toutes ces expériences : le premier, mis en usage par quelques personnes, consiste à faire un choix arbitraire entre tous les résultats obtenus par des latitudes diverses, et à s'en servir pour établir les points de la courbe dont il s'agit ; le second, qui m'a paru bien préférable, est d'employer au même objet *toutes les observations* à la fois.

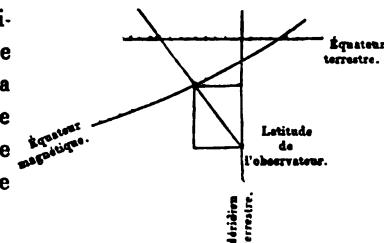
Je me suis donc servi des inclinaisons qui ne dépassaient pas 30° pour déterminer la latitude magnétique à l'aide de la formule :

$$\text{Tang. latit. magnét.} = \frac{\text{tang. inclin. magnét.}}{2}$$

Cette quantité trouvée, connaissant d'ailleurs la déclinaison de la boussole et la position géographique de l'observateur, il m'a été facile d'en conclure la latitude et la longitude des points correspondants de l'équateur magnétique (1). J'ai construit ces points sur une carte spéciale à très-grande échelle. J'eusse pu réunir aux observations précédentes les résultats du même genre obtenus tant par moi que par d'autres navigateurs modernes, mais les époques des observations extrêmes étaient fort éloignées ; et comme dans l'intervalle certaines modifications pouvaient avoir eu lieu dans la courbe qu'il s'agissait de déterminer, il m'a paru plus convenable de réservé ces dernières pour une autre division de notre travail.

Une des premières remarques que m'a mis à portée de faire la réunion des points ainsi construits sur ma carte, c'est que toutes les observations, même celles faites à des époques très-modernes et aux lieux les plus voisins, ne s'accordaient que rarement pour placer l'équateur magnétique dans la même situation et lui donner la même forme ; les écarts étaient quelquefois assez considérables pour ne pou-

(1) On y parvient d'ailleurs facilement par le calcul, en faisant attention que la latitude magnétique peut être considérée comme une route parcourue sur un rubis de vent dont la déclinaison de l'aimant indique la valeur. Deux formules de trigonométrie, connues des marins, servent à calculer ensuite le chemin en longitude et en latitude, et par conséquent le point d'arrivée. Veuillez la figure ci-contre.



voir être attribués aux erreurs de l'observation et à l'imperfection des méthodes. Ces discordances se rencontraient non-seulement entre les résultats déduits d'observateurs différents, mais encore entre ceux d'un même observateur. On n'aurait pu prendre une moyenne arithmétique entre les résultats observés sur tant de points divers; mais il était facile de dessiner la courbe résultante des observations extrêmes tant au N. qu'au S., et de faire passer une courbe moyenne entre ces deux-là. Toutefois cette moyenne ne devait évidemment pas passer toujours à distances égales des courbes extrêmes; elle devait se rapprocher davantage de celle près de laquelle se groupaient le plus grand nombre d'observations.

La ligne ainsi tracée se rapportait à l'époque moyenne de 1773; j'ai déterminé la latitude géographique pour tous ceux des points correspondant à chaque degré de longitude; et, pour qu'on pût juger des écarts des courbes extrêmes, j'ai aussi joint au tableau précédent la latitude correspondant aux premières. Là où les observations manquaient pour donner un tracé continu, j'ai dû me contenter de la courbe hypothétique qui paraissait être le plus en harmonie avec ce qui était exactement connu.

Les observations sur le continent africain manquant absolument pour tracer la partie de l'équateur magnétique qui s'étend depuis l'entrée de la mer Rouge jusqu'à la côte du Congo, nous n'avons pu estimer que d'une façon fort imparfaite que le nœud dans cette partie devait correspondre à peu près à 8° de longitude à l'Est de Paris: nous l'avons placé, sur notre carte, par 8° 13' pour l'époque moyenne dont nous avons parlé.

Il n'en est pas de même des points où l'équateur magnétique coupe l'équateur terrestre dans le Grand-Océan. Je dis *les points* et non le point, parce que les sections de ces deux courbes sont en effet multiples. Je trouve le premier de ces nœuds par 169° 33' de longitude occidentale, le second par 177° 18', et le troisième par 183° 49' à l'Ouest, ou 176° 11' à l'Est de Paris; mais j'eusse pu trouver des résultats bien différents en ne m'astreignant pas à la marche méthodique dont je viens de rendre compte.

Le tracé de l'équateur magnétique, pour l'époque moyenne des voyages scientifiques commencés en 1818 par la corvette *l'Uranie*, a été déterminé par une marche tout à fait semblable à celle exposée plus haut; nos observations pendant le voyage, celles qui ont été faites par M. Duperrey à bord de *la Coquille* et par Jules de Blosseville sur *la Chevrette*, ont à peu près seules servi de base à notre travail. J'avais lieu de croire que les différences observées entre les résultats seraient ici moins grandes que celles déduites d'observations plus anciennes, où l'art de l'expérimentation n'était pas aussi perfectionné, et je n'ai point été trompé dans mon attente; je dois cependant avouer que quelques différences nous ont encore paru assez fortes pour nous étonner, non-seulement entre les observations faites en mer, mais encore parmi celles faites à terre. Je prendrai pour exemple les trois séries faites à Guam avec un soin, et je puis dire un scrupule, qu'il est bien difficile de surpasser. Elles ont eu lieu à Umata, à Agagna et au fort Santa-Cruz du port San-Luis. Ces deux dernières stations, sur l'une desquelles nous avons réuni 3712 observations et sur l'autre 192, s'accordent entre elles à merveille. La première, où l'on a réuni 640 observations, entre lesquelles l'erreur ne saurait aller à 3', placerait l'équateur magnétique à plus d'un demi-degré au Sud des résultats précédents. Les observations faites par M. Duperrey sur *la Coquille* repousseraient l'équateur magnétique bien plus au Sud, tandis que d'autres observations faites en mer sur *l'Uranie* donneraient au contraire à cette courbe une position plus septentrionale, d'environ 1°. Toutes ces anomalies me paraissent difficiles à expliquer dans l'état actuel de la science, car je ne saurais admettre qu'un dérangement considérable de l'instrument ait eu lieu.

Quoi qu'il en soit, nous avons cherché à déduire des observations la courbe de notre équateur magnétique moderne, pour l'époque moyenne de 1823; nous avons déterminé la latitude de tous ses points, de degré en degré de longitude, comme dans le travail précédent, tant pour la courbe moyenne que pour celles extrêmes au Sud et au Nord.

Un fait qui d'abord m'a singulièrement frappé, c'est l'identité des nœuds de cet équateur avec celui de 1773 dans le Grand-Océan; le

nombre de points est le même, et la longitude comme la latitude de l'équateur terrestre parfaitement identiques.

Si, d'un autre côté, on considère les grands écarts qui ont lieu entre les résultats déduits des observations anciennes et même entre celles plus modernes; et, de l'autre, le peu d'écartement qui existe entre la courbe moyenne de 1773 et celle de 1823, on serait fort tenté de croire que peut-être l'équateur magnétique n'a-t-il pas partout ce mouvement de translation qu'on lui suppose. Cette présomption deviendrait presquée une certitude, pour tout l'espace compris entre 40° et 210° de longitude à l'Est de Paris. Mais depuis 210° jusqu'à 320° les observations comparatives manquent; de 320° à 330° dans l'Océan Atlantique, les équateurs magnétiques moyens sont de nouveau peu éloignés l'un de l'autre; et s'ils le sont davantage de 330° à 360° , dans le même océan, à l'Est de Paris, il faut avouer encore que nulle part les observations ne présentent d'aussi grandes anomalies.

Je n'ai pas voulu employer une observation de La Pérouse faite en mer, entre le Brésil et l'Ascension, qui placerait l'équateur magnétique à 3° environ de la courbe moyenne de 1773, parce qu'elle m'a paru entachée de quelque vice radical. Je dois en dire autant des observations d'inclinaison consignées récemment dans le voyage d'un habile officier, le capitaine King : elles s'écartent tellement de la courbe moyenne qui répond à l'époque de ces observations, que nous avons dû croire que l'instrument dont il a fait usage était essentiellement défectueux: nous trouvons en effet, dans l'Océan Atlantique, des écarts en latitude magnétique qui, rapportés à la courbe moyenne, s'en éloignent de 4° ; il est vrai que c'est là l'écart le plus considérable.

Nous ne nous sommes pas servi non plus d'un résultat d'inclinaison obtenu par le capitaine Sabine à l'île de l'Ascension. Suivant lui, l'équateur magnétique passerait au Nord de cette île, tandis que toutes les observations de M. Duperrey, qui sont fort concordantes, le placent vers le Sud. L'erreur serait, d'après ces considérations, de près de 4° en latitude magnétique; et les observations du capitaine King viendraient encore, s'il en était besoin, confirmer ce résultat.

Comme pour la courbe de 1773, nous n'avons pu déterminer le nœud moderne de l'équateur magnétique sur le continent d'Afrique : nous l'avons placé hypothétiquement par $7^{\circ} 20'$ de longitude orientale, pour l'époque moyenne de 1823.

Les observations d'inclinaison faites en Amérique par M. de Humboldt, à une époque intermédiaire entre 1773 et 1823, nous ont servi aussi à déterminer quelques points de l'équateur magnétique ; la plupart de ces points sont tombés au Sud et les autres au Nord de cet équateur ; et comme les points ainsi déterminés offraient des divergences assez considérables, j'ai tracé les courbes extrêmes du Nord et du Sud ; et pris la moyenne entre elles, ainsi que nous l'avions déjà fait précédemment ailleurs. L'observation du Pérou, faite précisément sous l'équateur magnétique même, diffère du résultat obtenu par l'observation de Quito de près de 3° en latitude magnétique ; mais il peut y avoir des attractions locales.

Comme je l'ai déjà dit, j'ai donné un exemple en grand du moyen que j'ai employé pour tracer la courbe moyenne sur la carte, quand les observations étaient divergentes (Voyez la carte spéciale de l'équateur magnétique qui accompagne cet ouvrage) ; mais il me reste à expliquer que les chiffres qui sont sur le petit tableau, à gauche de la carte, sont les numéros d'ordre du catalogue général des observations dont j'ai fait usage. Les nombres de la même série qui sont à peu près équivalents appartiennent naturellement au même observateur.

§ II. — *Observations recueillies.*

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE ANCIENNE.

| NUMÉROS D'ORDRE. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | POINTE ÉLEVÉE. | LATITUDE magnétique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
|------------------|------------------------------------|---|-----------------------------|-------|--|--------------|----------------|---------------------------------|--|-----------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. | |
| | | | | | | | | | | | |

OBSERVATIONS DE L'AIGUILLE AIMANTÉE FAITES, EN 1766, PAR LE GENTIL. (TRAVERSÉE DE L'ÎLE BOURBON À MANILLE.)

| | | | | | | | | | | | |
|-----|------------------------------|-----------|-------------|-------|--------------|---------|----|--------|-----------|-------------|--|
| 441 | A bord du <i>Bon-Conseil</i> | S. 8° 17' | E. 102° 50' | 1766. | N. O. 2° 15' | 28° 52' | N. | 824',6 | N. 7° 12' | E. 102° 16' | N. B. On a rejeté les observations qui donnaient au delà de 30° d'inclinaison. |
| 442 | | 7 55 | 101 40 | | 2 10 | 30 0 | | 966,1 | 8 14 | 101 8 | |
| 443 | | 7 36 | 101 15 | | 2 0 | 30 0 | | 966,1 | 8 34 | 100 42 | |
| 444 | | 6 58 | 101 20 | | 2 0 | 27 52 | | 888,5 | 7 54 | 100 51 | |
| 445 | | 6 31 | 102 25 | | 2 0 | 26 45 | | 848,7 | 7 41 | 102 0 | |
| 446 | | 6 13 | 103 24 | | 2 0 | 26 22 | | 835,2 | 7 42 | 102 57 | |
| 447 | | 6 3 | 103 30 | | 2 0 | 25 30 | | 804,8 | 7 22 | 103 2 | |
| 448 | | 5 46 | 103 33 | | 2 0 | 26 0 | | 822,3 | 7 59 | 103 9 | |
| 449 | | 5 33 | 103 45 | | 2 0 | 25 7 | | 791,5 | 7 40 | 103 10 | |
| 450 | | 5 2 | 103 46 | | 2 0 | 24 30 | | 770,2 | 7 50 | 103 21 | |
| 451 | | 4 4 | 103 53 | | 2 0 | 21 52 | | 680,8 | 7 21 | 103 32 | |
| 452 | | 3 8 | 104 8 | | 2 0 | 21 15 | | 660,2 | 7 55 | 103 45 | |
| 453 | | 3 9 | 103 47 | | 2 0 | 20 22 | | 630,9 | 7 27 | 103 25 | |
| 454 | | 2 43 | 103 32 | | 2 0 | 20 22 | | 630,9 | 7 50 | 103 13 | |
| 455 | | 2 21 | 103 26 | | 2 0 | 19 22 | | 598,1 | 7 41 | 103 10 | |
| 456 | | 2 12 | 102 51 | | 1 45 | 19 15 | | 594,3 | 7 46 | 102 34 | |
| 457 | | 2 6 | 102 40 | | 1 30 | 19 0 | | 586,1 | 7 43 | 102 23 | |
| 458 | | 1 38 | 102 52 | | 1 30 | 17 45 | | 545,6 | 7 31 | 102 37 | |
| 459 | | 0 44 | 102 40 | | 1 30 | 16 30 | | 505,5 | 7 43 | 102 26 | |
| | | N. | | | | | | | | | |
| 460 | | 0 41 | 103 0 | | 1 30 | 13 30 | | 410,7 | 7 2 | 102 49 | |
| 461 | | 1 54 | 103 25 | | 1 30 | 12 0 | | 364,0 | 8 0 | 103 15 | |
| 462 | | 3 44 | 104 10 | | 1 30 | 8 7 | | 280,1 | 8 14 | 104 1 | |
| 463 | | 5 30 | 104 45 | | 1 30 | 4 37 | | 138,7 | 7 49 | 104 41 | |
| 464 | | 6 35 | 105 5 | | 1 30 | 2 52 | | 86,1 | 8 3 | 105 2 | |
| 465 | | 6 45 | 105 10 | | 1 30 | 3 7 | | 93,6 | 8 20 | 105 5 | |
| 466 | | 7 0 | 105 15 | | 1 30 | 2 45 | | 82,6 | 8 27 | 105 10 | |
| 467 | | 7 21 | 105 25 | | 1 30 | 0 52 | | 26,0 | 7 49 | 105 25 | |
| 468 | | 8 22 | 106 0 | | 1 30 | 1 30 | S. | 43,0 | 7 40 | 106 1 | |
| 469 | | 9 45 | 107 0 | | 1 0 | 2 52 | | 86,0 | 8 24 | 106 57 | |
| 470 | | 11 32 | 109 25 | | 1 0 | 6 45 | | 203,2 | 8 9 | 109 30 | |
| 471 | | 13 6 | 112 13 | | 0 30 | 10 15 | | 310,0 | 7 59 | 112 14 | |
| 472 | A Manille. | 14 36 | 118 32 | | 0 15 | 11 41 | | 354,2 | 8 43 | 118 34 | |

OBSERVATIONS D'INCLINAISON FAITES, EN 1761 ET 1771, PAR LE GENTIL (DANS L'OcéAN ATLANTIQUE).

| | | | | | | | | | | | |
|-----|---|---------|---------|-------|-------------|-------|----|-------|------------|-----------|--|
| 404 | Océan Atlantique, à bord de l' <i>Astreee</i> . | S. 23 8 | E. 3 42 | 1771. | N. O. 14 45 | 27 30 | N. | 875,4 | N. 8 59.S. | E. 0 9.0. | |
| 405 | | 22 40 | 3 10 | | 14 35 | 27 30 | | 875,4 | 8 29 | 0 41 | |
| 406 | | 21 8 | 1 27 | | 14 30 | 23 0 | | 719,0 | 9 33 | 1 37 | |
| | | O. | | | | | | | S. | O. | |
| 407 | | 18 39 | 0 29 | | 14 15 | 20 30 | | 635,3 | 8 20 | 3 2 | |
| 408 | | 18 21 | 2 11 | | 13 30 | 14 37 | | 445,7 | 11 10 | 3 50 | |
| 409 | | 14 43 | 4 0 | | 13 30 | 10 37 | | 321,3 | 9 30 | 5 10 | |
| 410 | | 13 30 | 5 27 | | 13 0 | 8 30 | | 256,4 | 9 20 | 6 24 | |
| 411 | | 12 18 | 7 13 | | 12 30 | 4 45 | | 142,7 | 10 0 | 7 43 | |
| 412 | | 11 10 | 8 58 | | 12 0 | 2 30 | | 75,0 | 9 56 | 9 16 | |
| 413 | | 10 2 | 10 32 | | 11 30 | 0 45 | S. | 22,5 | 10 25 | 10 28 | |
| 414 | | 8 50 | 12 7 | | 11 0 | 4 52 | | 146,3 | 11 10 | 11 38 | |
| 415 | | 7 57 | 16 19 | | 9 0 | 7 22 | | 221,9 | 11 37 | 15 44 | |
| 416 | | 5 40 | 17 20 | | 8 10 | 10 45 | | 325,4 | 11 5 | 16 32 | |
| 417 | | 4 12 | 18 52 | | 7 40 | 14 37 | | 445,7 | 11 35 | 17 51 | |
| 418 | | 2 30 | 20 14 | | 7 20 | 18 22 | | 565,5 | 11 44 | 18 59 | |
| 419 | | 0 12 | 21 12 | | 7 0 | 23 0 | | 718,9 | 12 10 | 19 46 | |
| | | N. | | | | | | | | | |
| 420 | | 1 49 | 21 46 | | 7 0 | 26 30 | | 839,9 | 12 12 | 20 2 | |

| DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE ANCIENNE. | | | | | | | | | | | |
|--|------------------------------------|---|-----------------------------|-------|--|--------------|------------------|---------------------------------|--|-----------------------------|------------|
| NUMÉROS D'ORDRE. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | POINT MÉRIIDIEN. | LATITUDE magnétique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. | |

OBSERVATIONS DE L'AIGUILLE AIMANTÉE FAITES, EN 1768, PAR LE GENTIL. (ROUTE DE MANILLE À MADRAS.)

| | | N. | E. | 1768. | N.O. | | | N. | E. | |
|-----|--|--------|----------|-------|-------|---------|-------|--------|--------|----------|
| 473 | Poulou-Aor..... | 2° 30' | 102° 17' | ..... | 1° 0' | 11° 45' | N. | 356',2 | 8° 26' | 102° 12' |
| 474 | ..... | 1 47 | 102 28 | ..... | 0 50 | 13 7 | ..... | 398,7 | 8 27 | 100 22 |
| 475 | Rade de Malaca, à bord du S ^e -Antoine. | 2 12 | 99 52 | ..... | 0 30 | 12 20 | ..... | 374,0 | 8 28 | 99 52 |
| 476 | ..... | 3 48 | 98 13 | ..... | 0 30 | 9 31 | ..... | 287,5 | 8 42 | 98 13 |
| 477 | ..... | 4 2 | 98 0 | ..... | 0 30 | 8 43 | ..... | 263,0 | 8 30 | 98 0 |
| 478 | ..... | 4 55 | 98 4 | ..... | 0 30 | 7 26 | ..... | 223,9 | 8 43 | 98 2 |
| 479 | ..... | 5 25 | 97 52 | ..... | 0 30 | 6 22 | ..... | 191,1 | 8 40 | 97 51 |
| 480 | ..... | 6 9 | 96 55 | ..... | 0 30 | 4 56 | ..... | 148,3 | 8 38 | 96 57 |
| 481 | ..... | 6 51 | 95 10 | ..... | 0 30 | 3 22 | ..... | 101,1 | 8 37 | 95 10 |
| 482 | ..... | 7 31 | 93 33 | ..... | 0 30 | 2 51 | ..... | 85,5 | 8 59 | 93 32 |
| 483 | ..... | 7 45 | 91 30 | ..... | 0 0 | 2 41 | ..... | 80,1 | 9 6 | 91 30 |
| | | | | | N. E. | | | | | |
| 484 | ..... | 10 7 | 78 5 | ..... | 0 30 | 0 44 | S. | 22,0 | 9 46 | 78 4 |
| 485 | ..... | 10 39 | 78 55 | ..... | 0 30 | 0 49 | ..... | 24,1 | 10 17 | 78 53 |

OBSERVATIONS DE L'AIGUILLE AIMANTÉE FAITES, EN 1770, PAR LE GENTIL. (ROUTE DE PONDICHÉRY EN FRANCE.)

| | | N. | E. | 1770. | N. E. | | | S. | N. 15 | 80 9 |
|-----|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 486 | A bord du Dauphin. | 14 0 | 80 15 | ..... | 0 30 | 9 30 | | 287,0 | 9 15 | 80 9 |
| 487 | ..... | 13 29 | 82 1 | ..... | 1 0 | 8 52 | ..... | 267,6 | 9 4 | 81 55 |
| 488 | ..... | 12 3 | 82 19 | ..... | 1 0 | 5 37 | ..... | 168,9 | 9 15 | 82 17 |
| 489 | ..... | 10 40 | 82 57 | ..... | 1 0 | 3 37 | ..... | 108,6 | 9 59 | 83 27 |
| 490 | ..... | 9 38 | 83 30 | ..... | 1 0 | 0 48 | ..... | 24,0 | 9 12 | 83 30 |
| 491 | ..... | 8 8 | 84 7 | ..... | 1 0 | 2 52 | N. | 86,0 | 9 33 | 84 9 |
| 492 | ..... | 6 8 | 84 57 | ..... | 1 0 | 6 37 | ..... | 199,2 | 9 25 | 85 0 |
| 493 | ..... | 4 28 | 85 27 | ..... | 1 0 | 9 37 | ..... | 290,5 | 9 22 | 85 31 |
| 494 | ..... | 3 24 | 85 52 | ..... | 1 0 | 11 41 | ..... | 254,2 | 9 19 | 86 2 |
| 495 | ..... | 2 24 | 85 18 | ..... | 1 0 | 12 22 | ..... | 375,4 | 8 40 | 85 25 |
| 496 | ..... | 1 50 | 86 28 | ..... | 1 0 | 14 18 | ..... | 435,8 | 9 4 | 86 49 |
| 497 | ..... | 1 0 | 86 20 | ..... | 1 0 | 15 50 | ..... | 484,2 | 9 2 | 86 38 |
| | | | | | S. | | | | | |
| 498 | ..... | 0 6 | 86 31 | ..... | 1 0 | 17 52 | ..... | 549,3 | 9 2 | 86 38 |
| 499 | ..... | 1 14 | 86 57 | ..... | 1 0 | 19 26 | ..... | 600,3 | 8 49 | 87 12 |
| 500 | ..... | 2 47 | 87 36 | ..... | 1 0 | 22 30 | ..... | 702,0 | 8 58 | 87 51 |
| 501 | ..... | 3 55 | 88 4 | ..... | 1 0 | 23 52 | ..... | 748,4 | 8 36 | 88 13 |
| 502 | ..... | 4 24 | 88 8 | ..... | 1 0 | 24 48 | ..... | 780,5 | 8 40 | 88 25 |
| 503 | ..... | 4 26 | 88 13 | ..... | 1 0 | 25 22 | ..... | 800,2 | 8 57 | 88 32 |
| 504 | ..... | 4 25 | 88 11 | ..... | 1 0 | 25 22 | ..... | 800,2 | 8 58 | 88 30 |
| 505 | ..... | 4 40 | 88 4 | ..... | 1 0 | 26 26 | ..... | 837,5 | 9 20 | 88 26 |
| 506 | ..... | 4 52 | 88 33 | ..... | 0 30 | 26 0 | ..... | 822,3 | 8 50 | 88 43 |
| 507 | ..... | 5 7 | 88 18 | ..... | 0 30 | 26 22 | ..... | 835,2 | 8 50 | 88 30 |
| 508 | ..... | 5 38 | 87 57 | ..... | 0 30 | 27 40 | ..... | 881,3 | 9 5 | 88 20 |
| 509 | ..... | 6 47 | 87 18 | ..... | 0 30 | 29 22 | ..... | ..... | 9 0 | 87 37 |

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE ANCIENNE.

| NUMÉRO D'ORDRE. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | POINTES élevées. | LATITUDE magné- tique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
|--------------------|--|---|-----------------------------------|-------|--|--------------|---------------------|---|--|-----------------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. | |
| | | | | | | | | | | | |

OBSERVATIONS DE L'AIGUILLE AIMANTÉE FAITES, EN 1775, À BORD DU GRENVILLE, PENDANT UN VOYAGE
DANS L'INDE, PAR ALEXANDER DALRYMPLE.

| | | N. | O. | 1775. | Juin. | N. O. | | | S. | O. | N. B. Les déclinaisons accompagnées d'un astérisques sont déduites de l'estime. |
|-----|---------------------|-----------|-----------------------------------|--------------|----------|--------------|---------------------|-----------|-----------------------------------|-----------|---|
| | | Latitude. | Longitude comptée de Paris. | Déclinaison. | | Inclinaison. | Pointes élevées. | Latitude. | Longitude comptée de Paris. | | |
| 624 | Océan Atlantique... | 5° 49' | 14° 33' | 17. | 13° 35'* | 29° 6' | S. | 933',1 | 9° 18',0 | 10° 53',1 | |
| 625 | | 5 23 | 14 14 | 18. | 13 38 | 28 7 | | 897,5 | 9 9,2 | 10 41,8 | |
| 626 | | 5 7 | 13 58 | 19. | 13 40 | 28 4 | | 895,7 | 9 23,3 | 10 25,7 | |
| 627 | | 4 57 | 13 16 | 20. | 14 36 | 28 4 | | 895,7 | 9 39,8 | 9 29,4 | |
| 628 | | 4 54 | 12 58 | 21. | 14 40 | 28 2 | | 894,5 | 9 31,3 | 9 10,2 | |
| 629 | | 4 39 | 13 4 | 22. | 14 42 | 27 3 | | 850,3 | 9 12,2 | 9 25,2 | |
| 630 | | 4 32 | 13 26 | 23. | 14 40 | 27 4 | | 859,9 | 9 19,9 | 9 47,5 | |
| 631 | | 4 28 | 13 57 | 24. | 14 38 | 28 2 | | 894,5 | 9 57,5 | 10 10,2 | |
| 632 | | 4 21 | 13 31 | 25. | 14 35 | 26 7 | | 826,4 | 8 58,8 | 10 2,3 | |
| 633 | | 4 16 | 11 46 | 26. | 14 32 | 26 2 | | 824,5 | 9 1,1 | 8 18,7 | |
| 634 | | 3 42 | 11 5 | 27. | 14 28 | 25 0 | | 787,4 | 9 0,5 | 7 47,7 | |
| 635 | | 2 50 | 12 5 | 28. | 14 26 | 24 0 | | 753,0 | 9 19,2 | 8 56,6 | |
| 636 | | 1 56 | 13 49 | 29. | 14 15 | 23 2 | | 720,1 | 9 41,9 | 10 51,0 | |
| 637 | | 1 11 | 16 8 | 30. | 12 36 | 23 2 | | 720,1 | 10 31,7 | 13 30,1 | |
| | | | | Juillet. | | | | | | | |
| 638 | | 1 34 | 16 37 | 1°. | 13 17 | 23 6 | | 722,3 | 10 9,0 | 13 50,3 | |
| 639 | | 1 10 | 18 36 | 2. | 12 44 | 24 2 | | 754,2 | 11 5,6 | 15 48,8 | |
| 640 | | 0 17 | 20 33 | 3. | 11 37 | 23 5 | | 721,8 | 11 30,0 | 18 6,7 | |
| | | | | S. | | | | | | | |
| 641 | | 1 8 | 21 49 | 4. | 9 24 | 21 5 | | 654,7 | 11 53,0 | 20 1,5 | |
| 642 | | 2 21 | 22 23 | 5. | 8 50 | 19 3 | | 587,7 | 12 1,8 | 20 51,9 | |
| 643 | | 3 37 | 23 40 | 6. | 8 45 | 18 7 | | 557,4 | 12 47,9 | 22 14,2 | |
| 644 | | 5 17 | 24 40 | 7. | 7 50 | 15 0 | | 457,8 | 12 50,0 | 23 36,8 | |
| 645 | | 7 10 | 25 40 | 8. | 6 29 | 11 0 | | 333,1 | 12 40,9 | 25 1,8 | |
| 646 | | 8 57 | 26 31 | 9. | 6 3 | 7 0 | | 210,8 | 12 26,6 | 26 8,4 | |
| 647 | | 10 50 | 27 4 | 10. | 5 38 | 3 4 | | 92,1 | 12 21,6 | 26 54,8 | |
| 648 | | 12 24 | 28 3 | 11. | 4 0 | 1 4 | | 32,0 | 12 55,9 | 28 0,7 | |
| 649 | | 14 6 | 28 48 | 12. | 4 17 | 2 2 | | N. | 61,0 | 13 5,1 | |
| 650 | | 15 33 | 29 57 | 13. | 2 42 | 3 4 | | 92,1 | 14 1,0 | 30 1,5 | |
| 651 | | 16 59 | 31 5 | 14. | 1 44 | 6 2 | | 181,5 | 13 57,6 | 31 10,7 | |
| 652 | | 18 11 | 31 59 | 15. | 1 21 | 8 5 | | 243,7 | 14 7,3 | 32 5,0 | |
| 653 | | 19 1 | 32 24 | 16. | 0 42 | 10 3 | | 303,8 | 13 57,2 | 32 27,9 | |
| 654 | | 19 59 | 32 51 | 17. | 0 0 | 12 0 | | 364,0 | 13 55,0 | 32 51,0 | |
| | | | | N. E. | | | | | | | |
| 655 | | 21 29 | 33 35 | 18. | 0 16 | 13 7 | | 398,7 | 14 50,3 | 33 33,0 | |
| 656 | | 22 8 | 33 19 | 19. | 0 44 | 15 3 | | 459,4 | 14 28,6 | 33 12,8 | |
| 657 | | 22 20 | 33 20 | 20. | 0 44 | 15 6 | | 461,0 | 14 39,0 | 33 13,8 | |
| 658 | | 23 34 | 32 47 | 21. | 0 54 | 18 5 | | 556,3 | 14 17,7 | 32 37,7 | |
| | | | | N. O. | | | | | | | |
| 659 | | 24 39 | 31 53 | 22. | 0 2 | 20 7 | | 622,7 | 14 16,3 | 31 53,4 | |
| | | | | N. E. | | | | | | | |
| 660 | | 25 48 | 32 7 | 23. | 0 8 | 22 2 | | 686,4 | 14 21,6 | 32 5,3 | |
| 661 | | 27 18 | 32 44 | 24. | 1 8 | 24 5 | | 755,9 | 14 42,3 | 32 27,9 | |
| 662 | | 28 30 | 33 10 | 25. | 1 57 | 27 3 | | 859,3 | 14 11,1 | 32 38,5 | |
| 663 | | 29 35 | 33 49 | 26. | 1 52 | 28 4 | | 895,7 | 14 39,8 | 33 17,4 | |
| 664 | | 30 22 | 33 57 | 27. | 3 7 | 29 1 | | 930,1 | 14 53,3 | 33 2,0 | |
| 665 | | 30 37 | 33 28 | 28. | 2 30 | 29 1 | | 930,1 | 15 7,8 | 32 43,8 | |
| 666 | | 31 33 | 32 22 | 29. | 2 10 | 30 3 | | 968,0 | 15 25,7 | 31 41,9 | |

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE ANCIENNE.

| NUMÉROS D'ORDRE. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | PÔLE TERRAIRE. | LATITUDE magnétique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
|------------------|------------------------------------|---|-----------------------------|-------|--|--------------|----------------|---------------------------------|--|-----------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. | |
| | | | | | | | | | | | |

OBSERVATIONS DE L'AIGUILLE AIMANTÉE FAITES, EN 1775, À BORD DU GRENVILLE, PENDANT UN VOYAGE DANS L'INDE, PAR ALEXANDER DALRYMPLE.

| | | S. | E. | 1775. | N.O. | | | | N. | E. | |
|-----|------------------------------|--------|---------|-------|--------|-------|--------|-----------|-----------|----------|--|
| | | Nov. | 5. | 0° 8' | 30° 3' | N. | 968',0 | 10° 41',9 | 78° 54',7 | | |
| 707 | Mer des Indes..... | 5° 26' | 78° 57' | | | | | | | | |
| | | | | | | N. E. | | | | | |
| 708 | ..... | 3 44 | 79 2 | 6. | 0 8 | 27 3 | ..... | 859,3 | 10 35,3 | 79 4,0 | |
| 709 | ..... | 2 30 | 79 23 | 7. | 1 9 | 25 5 | ..... | 790,3 | 10 40,2 | 79 38,9 | |
| 710 | ..... | 1 11 | 79 23 | 8. | 1 4 ° | 23 0 | ..... | 718,9 | 10 47,8 | 79 36,5 | |
| 711 | ..... | 0 18 | 78 43 | 9. | 0 57 ° | 21 1 | ..... | 652,4 | 10 34,3 | 78 53,9 | |
| | | | | | N. | | | | | | |
| 712 | ..... | 0 47 | 78 40 | 10. | 0 52 | 20 1 | ..... | 619,4 | 11 6,3 | 78 49,4 | |
| 713 | ..... | 2 1 | 78 47 | 11. | 0 52 ° | 16 4 | ..... | 491,7 | 10 12,6 | 78 54,49 | |
| 714 | ..... | 2 52 | 78 29 | 12. | 0 52 ° | 16 5 | ..... | 492,2 | 11 4,1 | 78 36,5 | |
| 715 | ..... | 2 54 | 78 11 | 13. | 0 52 ° | 15 7 | ..... | 461,5 | 10 35,5 | 78 18,0 | |
| 716 | ..... | 2 59 | 78 31 | 14. | 0 52 ° | 16 3 | ..... | 491,1 | 11 10,1 | 78 38,5 | |
| 717 | ..... | 2 50 | 79 32 | 15. | 0 52 ° | 15 4 | ..... | 459,9 | 10 29,9 | 79 39,0 | |
| 718 | ..... | 2 52 | 80 28 | 16. | 0 52 ° | 14 5 | ..... | 429,0 | 10 0,9 | 80 34,5 | |
| 719 | ..... | 3 27 | 81 37 | 17. | 0 53 ° | 15 6 | ..... | 461,0 | 11 7,9 | 81 44,2 | |
| 720 | ..... | 4 2 | 81 53 | 18. | 0 53 ° | 12 2 | ..... | 365,0 | 10 7,0 | 81 58,7 | |
| 721 | ..... | 3 44 | 82 47 | 19. | 0 53 ° | 11 7 | ..... | 336,7 | 9 20,6 | 82 52,2 | |
| 722 | ..... | 3 0 | 84 20 | 20. | 0 53 ° | 12 6 | ..... | 367,1 | 9 7,0 | 84 25,7 | |
| 723 | ..... | 3 29 | 85 8 | 21. | 0 53 ° | 11 3 | ..... | 334,6 | 9 3,0 | 85 13,2 | |
| 724 | ..... | 3 55 | 86 19 | 22. | 0 53 ° | 11 7 | ..... | 336,7 | 9 31,6 | 86 24,2 | |
| 725 | ..... | 4 37 | 86 11 | 23. | 0 53 ° | 9 0 | ..... | 271,7 | 9 8,6 | 86 15,2 | |
| 726 | ..... | 5 19 | 85 53 | 24. | 0 53 | 7 32 | ..... | 227,0 | 9 5,9 | 85 56,5 | |
| 727 | ..... | 6 13 | 84 47 | 25. | 0 57 ° | 6 40 | ..... | 200,7 | 9 33,6 | 84 50,4 | |
| 728 | ..... | 6 38 | 84 16 | 26. | 1 2 ° | 6 6 | ..... | 183,5 | 9 41,5 | 84 19,3 | |
| 729 | ..... | 6 40 | 83 43 | 27. | 1 6 ° | 5 3 | ..... | 151,8 | 9 11,8 | 83 45,9 | |
| 730 | ..... | 8 2 | 83 20 | 28. | 1 11 ° | 3 4 | ..... | 92,1 | 9 34,0 | 83 21,9 | |
| 731 | ..... | 9 28 | 82 50 | 29. | 1 15 ° | 0 44 | S. | 22,0 | 9 6,0 | 82 49,5 | |
| 732 | ..... | 10 55 | 82 35 | 30. | 1 20 ° | 3 3 | ..... | 91,6 | 9 23,5 | 82 32,8 | |
| | | | | | Déc. | | | | | | |
| 733 | ..... | 11 1 | 82 55 | 1°. | 1 24 ° | 3 1 | ..... | 90,6 | 9 30,5 | 82 52,7 | |
| 734 | ..... | 10 50 | 83 38 | 2. | 1 29 ° | 1 5 | ..... | 32,5 | 10 17,5 | 83 37,1 | |
| 735 | ..... | 10 33 | 84 29 | 3. | 1 33 ° | 2 4 | ..... | 62,0 | 9 31,0 | 84 27,3 | |
| 736 | ..... | 11 13 | 84 42 | 4. | 1 37 | 4 6 | ..... | 123,1 | 9 9,9 | 84 38,5 | |
| 737 | ..... | 12 2 | 84 27 | 5. | 1 17 | 6 1 | ..... | 181,0 | 9 1,0 | 84 22,9 | |
| 738 | ..... | 12 56 | 83 24 | 6. | 1 7 ° | 7 1 | ..... | 211,3 | 9 24,7 | 83 19,8 | |
| 739 | ..... | 14 2 | 81 25 | 7. | 0 59 ° | 8 1 | ..... | 241,7 | 10 0,3 | 81 20,8 | |
| 740 | ..... | 14 17 | 79 3 | 8. | 0 47 ° | 8 5 | ..... | 243,7 | 10 13,3 | 78 59,6 | |
| 741 | ..... | 13 37 | 78 22 | 9. | 0 34 ° | 5 1 | ..... | 150,8 | 11 6,2 | 78 20,5 | |
| | | | | | 1776. | | | | | | |
| 742 | A l'ancre en rade de Madras. | 13 7 | 78 30 | 10. | 0 25 ° | 5 0 | ..... | 150,3 | 10 36,43 | 78 28,9 | |

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE ANCIENNE.

| N° de l'observ. n° de la ligne | LIEU où l'observation a été faite. | COORDONNÉES GÉOGRAPHIQUES du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | PENTE magné- tique en minutes. | COORDONNÉES GÉOGRAPHIQUES des points de l'équateur magnétique. | | REMARQUES. |
|-----------------------------------|--|---|-----------------------------------|-------|--|--------------|--|--|-----------------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | Latitude. | Longitude comptée de Paris. | |

OBSERVATIONS DE L'AIGUILLE AIMANTÉE, FAITES EN 1776, À BORD DE LA CORVETTE THE SWALLOW,
PAR LE CAPITAINE JOHN ALEXANDER PANTON.

| N° de l'observ. n° de la ligne | LIEU où l'observation a été faite. | COORDONNÉES GÉOGRAPHIQUES du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | PENTE magné- tique en minutes. | COORDONNÉES GÉOGRAPHIQUES des points de l'équateur magnétique. | | REMARQUES. |
|-----------------------------------|--|---|-----------------------------------|----------|--|--------------|--|--|-----------------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | Latitude. | Longitude comptée de Paris. | |
| 1776. | | | | | | | | | | |
| 524 | Trincomalee (île Ceylan). | 8° 32' | 29° 10' | 14. | 1° 30' | 4° 5' | ..... | 122°,6 | 10° 34',6 | 79° 6',7 |
| 525 | A l'ancre, route d'Asjengo. | 8 41 | 74 34 | 28. | 1 12 | 4 3 | ..... | 121,6 | 10 42,6 | 74 31,4 |
| 526 | ..... | 9 58 | 72 44 | 30. | 0 50 | 2 5 | ..... | 62,5 | 11 0,5 | 72 3,1 |
| 527 | ..... | 9 54 | 72 4 | 31. | 0 58 | 3 0 | ..... | 90,1 | 11 24,0 | 72 2,4 |
| | | Nov. | | | | | | | | |
| 528 | Au large de Kalipsey (îles Laquedives). | 9 57 | 71 15 | 1°. | 1 25 | 2 6 | ..... | 63,0 | 11 0,0 | 71 13,4 |
| 529 | Devant Scheulpur (mêmes îles). | 9 59 | 70 10 | 2. | 1 30 | 2 4 | ..... | 62,0 | 11 1,0 | 70 8,3 |
| 530 | ..... | 9 38 | 68 58 | 3. | 1 30 | 3 6 | ..... | 93,1 | 11 11,0 | 68 55,5 |
| 531 | ..... | 9 49 | 68 6 | 4. | 1 30 | 4 1 | ..... | 120,6 | 11 49,6 | 68 2,8 |
| 532 | ..... | 9 53 | 66 51 | 5. | 2 3 | 3 7 | ..... | 93,6 | 11 26,5 | 66 47,6 |
| 533 | ..... | 9 55 | 65 15 | 6. | 2 15 | 3 7 | ..... | 93,6 | 11 28,5 | 65 11,3 |
| 534 | ..... | 10 43 | 63 10 | 7. | 4 6 | 2 3 | ..... | 61,5 | 11 44,4 | 63 5,5 |
| 535 | ..... | 11 57 | 61 2 | 8. | 4 23 | 0 3 | S. | 1,5 | 11 55,5 | 61 2,1 |
| 536 | ..... | 12 45 | 58 14 | 9. | 5 26 | 2 1 | ..... | 60,5 | 11 44,7 | 58 19,9 |
| 537 | ..... | 12 59 | 55 1 | 10. | 6 19 | 3 1 | ..... | 90,6 | 11 29,0 | 55 11,2 |
| 538 | ..... | 13 29 | 52 52 | 11. | 7 55 | 4 1 | ..... | 120,6 | 11 29,5 | 53 9,0 |
| 539 | Au large de l'île Socotra. | 13 16 | 50 35 | 12. | 8 6 | 4 5 | ..... | 122,6 | 11 14,6 | 50 52,2 |
| 540 | ..... | 13 28 | 48 38 | 13. | 9 4 | 5 3 | ..... | 151,8 | 10 58,1 | 49 2,5 |
| 541 | En vue de la côte d'Arabie. | 13 51 | 47 17 | 14. | 9 33 | 7 1 | ..... | 211,3 | 10 22,6 | 47 52,9 |
| 542 | ..... | 13 37 | 46 13 | 15. | 9 12 | 7 5 | ..... | 213,3 | 10 6,4 | 46 48,7 |
| 543 | ..... | 12 54 | 44 44 | 16. | 10 6 | 5 7 | ..... | 153,8 | 10 22,6 | 45 11,5 |
| 544 | En vue du cap Aden.... | 12 41 | 43 5 | 17. | 11 27 | 5 7 | ..... | 153,8 | 10 10,3 | 43 36,1 |
| 545 | ..... | 13 38 | 41 45 | 18. | 11 10 | 6 7 | ..... | 184,0 | 9 37,4 | 42 21,3 |
| 546 | A l'ancre, à Moka..... | 13 22 | 41 50 | 20 et 21 | 11 20 | 8 3 | ..... | 242,7 | 9 24,0 | 42 38,7 |
| 547 | En vue de Gebel Zeker... | 14 24 | 41 15 | 22. | 11 11 | 11 5 | ..... | 335,6 | 8 54,7 | 42 21,5 |
| 548 | En vue de Gebel Tar.... | 15 29 | 40 52 | 23. | 13 1 | 13 3 | ..... | 306,6 | 9 2,5 | 42 23,5 |
| 549 | ..... | 16 2 | 40 29 | 24. | 13 41 | 14 7 | ..... | 430,0 | 9 4,2 | 42 13,3 |
| 550 | ..... | 16 24 | 40 2 | 25. | 13 58 | 15 7 | ..... | 461,5 | 8 56,1 | 41 56,3 |
| 551 | ..... | 17 5 | 39 34 | 26. | 13 47 | 18 2 | ..... | 554,7 | 8 6,2 | 41 49,9 |
| 552 | ..... | 18 14 | 38 40 | 27. | 13 56 | 20 0 | ..... | 618,8 | 8 13,4 | 41 13,5 |
| 553 | ..... | 19 36 | 38 10 | 28. | 13 2 | 23 5 | ..... | 721,8 | 7 52,8 | 40 57,9 |
| 554 | Au large de Judda..... | 20 59 | 37 36 | 29. | 12 55 | 26 0 | ..... | 822,3 | 7 37,5 | 40 46,2 |
| 555 | ..... | 21 43 | 36 43 | 30. | 12 49 | 28 7 | ..... | 897,5 | 7 7,9 | 40 9,2 |

| DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE ANCIENNE. | | | | | | | | | | |
|--|---|---|-----------------------------------|----------------|--|--------------|-------------------|---|--|-----------------------------------|
| NUMÉROS D'ORDRE. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | POINTE ÉLEVÉE. | LATITUDE magné- tique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | |
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. |
| OBSERVATIONS DE L'AIGUILLE AIMANTÉE, EXTRAITES DU 3 ^e VOYAGE DE COOK. | | | | | | | | | | |
| 1 | Océan Atlantique (sur la corvette la <i>Résolution</i>). . | S. 0° 3' 0" | O. 29° 58' | 1776. Sept. | N. O. 3° 29' | 27° 24' 0" | S. | 871',8 | S. 14° 40' | O. 29° 1' |
| 2 | | 1 32 0 | 30 58 | 1. | 3 27 | 25 9 0 | ..... | 792,6 | 14 44 | 30 4 |
| 3 | | 3 14 30 | 31 42 | 3. | 2 14 | 21 56 0 | ..... | 683,0 | 14 42 | 31 16 |
| 4 | | 4 40 45 | 32 54 | 4. | 1 26 | 19 26 0 | ..... | 600,2 | 14 49 | 32 40 |
| 5 | | 7 3 0 | 35 41 | 6. | N. E. 1 5 | 13 32 0 | ..... | 411,7 | 13 58 | 35 50 |
| 6 | | 8 10 0 | 36 20 | 7. | N. O. 0 15 | 11 20 0 | ..... | 343,3 | 14 0 | 36 20 |
| 7 | | 9 52 0 | 36 50 | 9. | 0 0 | 9 16 0 | ..... | 279,8 | 14 37 | 36 50 |
| 8 | | 11 25 30 | 36 54 | 10. | N. E. 0 12 | 6 14 0 | ..... | 187,5 | 14 30 | 36 53 |
| 9 | | 14 25 0 | 36 37 | ..... | 0 12 | 1 42 0 | ..... | 51,0 | 15 17 | 36 36 |
| 10 | | 14 32 0 | 36 59 | 12. | 0 51 | 2 10 0 | N. | 65,0 | 13 26 | 36 57 |
| 11 | | 14 35 0 | 36 40 | ..... | 0 51 | 2 39 0 | ..... | 79,5 | 13 16 | 36 40 |
| 12 | | 15 53 15 | 36 52 | ..... | 0 51 | 3 34 0 | ..... | 107,1 | 14 5 | 36 48 |
| 13 | | 16 0 0 | 36 55 | 13. | 2 4 | 4 21 0 | ..... | 130,7 | 13 51 | 36 49 |
| 14 | | 16 4 0 | 36 56 | ..... | 2 4 | 3 58 0 | ..... | 119,1 | 14 9 | 36 50 |
| 15 | | 17 22 0 | 37 40 | 14. | 2 56 | 6 50 0 | ..... | 205,7 | 14 1 | 37 30 |
| 16 | | 21 57 0 | 38 20 | 17. | 3 24 | 15 30 0 | ..... | 473,7 | 14 3 | 37 52 |
| 17 | | 25 37 0 | 37 20 | 19. | 3 56 | 21 44 0 | ..... | 676,3 | 14 28 | 36 2 |
| 18 | | 27 1 30 | 36 15 | 20. | 3 26 | 23 56 0 | ..... | 750,7 | 14 32 | 35 23 |
| 19 | | 27 52 0 | 34 55 | 21. | 1 59 | 25 26 0 | ..... | 802,5 | 14 30 | 34 22 |
| 20 | | 27 58 0 | 34 35 | ..... | 1 59 | 26 49 0 | ..... | 851,1 | 13 48 | 34 4 |
| 21 | | 30 16 0 | 30 22 | 24. | 2 37 | 29 14 0 | ..... | 938,0 | 14 37 | 29 36 |
| 22 | Ile Taiti (pointe Vénus). . | 17 29 0 | 152 10 | 1777. Sept. | 5 41 | 29 3 22 | ..... | 931,5 | 1 59 | 150 27 |
| 23 | | 16 44 0 | 153 28 | 9. | 5 41 | 29 21 52 | ..... | 942,7 | 1 7 | 151 45 |
| 24 | Ile Huahine. | 16 43 0 | 153 42 | Octobr. | 5 2 | 28 19' 0 | ..... | 901,7 | 1 4 | 152 11 |
| 25 | Ile Ulieta (en mer). | 16 45 0 | 153 55 | Nov. | 6 36 | 29 15 0 | ..... | 938,6 | 1 14 | 151 59 |
| 26 | | 11 3 0 | 156 55 | Déc. | 6 29 | 16 21 25 | ..... | 500,9 | 2 46 | 156 10 |
| 27 | | 9 48 45 | 157 0 | 15. | 6 0 | 14 56 23 | ..... | 455,9 | 2 16 | 153 49 |
| 28 | | 8 56 45 | 157 35 | 16. | 5 44 | 13 10 53 | ..... | 400,7 | 2 23 | 156 51 |
| 29 | | 7 38 30 | 158 1 | 17. | 5 39 | 10 10 22 | ..... | 307,6 | 2 36 | 157 30 |
| 30 | | 6 23 45 | 158 10 | 18. | 5 39 | 7 15 0 | ..... | 218,4 | 1 21 | 157 39 |
| 31 | | 4 56 30 | 158 8 | 19. | 5 25 | 3 27 14 | ..... | 103,7 | 3 15 | 157 58 |
| 32 | | 3 50 0 | 158 50 | 20. | 5 50 | 1 18 20 | ..... | 39,2 | 3 10 | 158 5 |
| 33 | | 3 32 0 | 158 50 | ..... | 5 50 | 0 55 0 | ..... | 27,5 | 3 5 | 158 9 |
| 34 | | 3 13 0 | 158 55 | ..... | 5 50 | 0 12 15 | ..... | 6,1 | 3 10 | 158 56 |
| 35 | | 2 2 30 | 159 10 | ..... | 5 50 | 2 28 12 | S. | 74,1 | 3 16 | 159 18 |
| 36 | | 0 34 20 | 159 22 | 22. | 6 46 | 5 31 24 | ..... | 166,0 | 3 19 | 159 41 |
| 37 | | 0 44 45 | 159 45 | N. | 6 20 | 8 16 30 | ..... | 249,5 | 3 24 | 160 14 |
| 38 | | 2 2 30 | 159 54 | 23. | 7 0 | 10 53 52 | ..... | 329,9 | 3 26 | 160 35 |
| 39 | A l'ancre (près l'Ile Christmas). | 1 58 0 | 159 50 | 24. | 7 33 | 11 54 15 | ..... | 361,0 | 4 2 | 160 40 |
| 40 | En mer. | 4 8 0 | 159 34 | 1778. Janvier. | 6 20 | 15 42 42 | ..... | 480,4 | 3 50 | 160 38 |
| 41 | | 7 45 0 | 157 22 | 8. | 6 50 | 22 29 18 | ..... | 701,7 | 3 50 | 158 51 |
| 42 | | 8 12 15 | 157 16 | 9. | 7 0 | 23 37 30 | ..... | 734,5 | 3 58 | 158 49 |
| 43 | | 12 17 30 | 158 14 | 12. | 7 18 | 29 54 56 | ..... | 963,0 | 4 2 | 160 25 |

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE ANCIENNE.

| n° ordres | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | PÔLE MAGNÉTIQUE | LATITUDE magné- tique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
|---|--|---|-----------------------------------|-------------------|--|--------------|--------------------|---|--|-----------------------------------|--|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. | |
| OBSERVATIONS DE L'AIGUILLE AIMANTÉE. (VOYAGE DE COOK.) | | | | | | | | | | | |
| 45 | En mer, à bord de la <i>Discovery</i> | N. 24°36' 0 | E. 139°40' 0 | 1779. Nov. | N. E. 3° 14" 0 | 29° 31' 30" | S. | 948',7 | N. 8° 45" 0 | E. 138° 41' 0 | <i>N.B.</i> Ces astérisques indiquent des décli- naisons estimées. |
| 46 | ..... | 25 5 0 | 136 23 0 | 16. | 2 17 0 | 30 58 45 | ..... | 1,002,5 | 8 21 0 | 135 44 0 | |
| 47 | ..... | 22 7 30 | 127 27 0 | 20. | 0 6 0 | 23 17 15 | ..... | 728,7 | 9 56 0 | 127 24 0 | |
| | | | | 1780. Janvier. | | | | | | | |
| 48 | ..... | 18 58 0 | 111 21 0 | 15. | 0 0 0° N.O. | 21 44 0 | ..... | 676,3 | 7 41 0 | 111 21 0 | |
| 49 | ..... | 8 46 30 | 105 25 0 | 20. | 0 22 0 | 2 0 0 | ..... | 60,0 | 7 49 0 | 105 27 0 | |
| 50 | Havre de <i>Palo-Condor</i> | 8 39 0 | 103 59 0 | 26. | 1 0 0° | 1 55 30 | ..... | 57,8 | 7 40 0 | 114 0 0 | |
| 51 | ..... | 6 53 45 | 102 51 0 | 29. | 0 0 0° | 1 39 30 | N. | 45,8 | 7 44 0 | 112 30 0 | |
| 52 | ..... | 3 18 20 | 101 56 0 | 31. | 1 19 0 | 9 2 15 | ..... | 272,8 | 7 50 0 | 101 52 0 | |
| 53 | En mer, à bord de la <i>Discovery</i> | 1 20 45 | 102 40 0 | Février. | 0 3 0 | 12 51 45 | ..... | 390,4 | 7 54 0 | 102 39 0 | |
| | | | | S. | | | | | | | |
| 54 | ..... | 0 22 0 | 102 34 0 | 2. | 0 5 0 | 15 28 10 | ..... | 472,7 | 7 32 0 | 102 31 0 | |
| 55 | ..... | 4 36 30 | 101 42 0 | 6. | 1 0 0° | 24 27 50 | ..... | 763,2 | 8 19 0 | 101 30 0 | |
| 56 | ..... | 6 37 0 | 102 40 0 | 17. | 0 40 0 | 28 20 30 | ..... | 905,6 | 8 34 0 | 112 35 0 | |
| | | | | O. | | | | | S. | O. | |
| 57 | Ile du Prince (détroit de la Sonde).... | 24 35 0 | 2 20 0 | 20. | 15 0 0° | 28 15 0 | ..... | 902,2 | 9 49 0 | 6 29 0 | |
| 58 | ..... | 22 16 0 | 6 37 0 | 22. | 12 0 0° | 22 42 0 | ..... | 708,8 | 10 39 0 | 9 10 0 | |
| 59 | ..... | 18 12 0 | 11 27 0 | 25. | 11 0 0° | 13 53 54 | ..... | 412,7 | 11 34 0 | 12 41 0 | |
| 60 | ..... | 15 54 0 | 14 24 0 | 27. | 11 3 0 | 8 37 15 | ..... | 260,1 | 11 41 0 | 15 12 0 | |
| 61 | ..... | 14 56 0 | 15 20 0 | 28. | 11 0 0° | 6 36 30 | ..... | 209,0 | 11 31 0 | 15 3 0 | |
| 62 | ..... | 13 39 45 | 17 12 0 | 30. | 10 33 0 | 4 41 15 | ..... | 140,8 | 11 20 0 | 17 29 0 | |
| 63 | ..... | 12 46 0 | 18 5 0 | 31. | 10 40 0 | 1 18 30 | ..... | 39,2 | 12 7 0 | 18 25 0 | |
| 64 | ..... | 12 11 0 | 18 8 0 | " | " | 1 14 30 | ..... | 37,2 | 11 37 0 | 18 14 0 | |
| 65 | ..... | 12 0 0 | 18 38 0 | " | " | 0 12 0 | S. | 6,0 | 12 4 0 | 18 37 0 | |
| | | | | Juin. | | | | | | | |
| 66 | ..... | 11 15 0 | 19 35 0 | 2. | 10 45 0 | 2 17 15 | ..... | 68,6 | 12 20 0 | 19 21 0 | |
| 67 | ..... | 8 51 0 | 23 23 0 | 5. | 8 45 0° | 8 47 30 | ..... | 265,3 | 13 12 0 | 21 42 0 | |
| 68 | ..... | 4 50 0 | 25 0 0 | 7. | 8 26 0 | 14 47 45 | ..... | 251,3 | 12 21 0 | 23 58 0 | |
| 69 | ..... | 3 12 0 | 27 24 0 | 9. | 7 17 0 | 20 3 0 | ..... | 320,5 | 13 33 0 | 26 1 0 | |
| 70 | ..... | 0 19 0 | 28 20 0 | 11. | 7 0 0° | 25 40 30 | ..... | 810,9 | 13 47 0 | 26 40 0 | |
| | | | | | | | | | | | |
| 71 | Océan Atlantique, à bord de la <i>Discovery</i> | N. | | 1776. Sept. | | | | | | | |
| | | 0 42 0 | 15 44 0 | 15. | 13 19 0° | 24 21 45 | ..... | 765,4 | 11 47 0 | 12 47 0 | |
| | | | | S. | | | | | | | |
| 72 | ..... | 0 49 0 | 16 47 0 | 17. | 13 19 0° | 21 45 0 | ..... | 676,9 | 11 55 0 | 14 2 0 | |
| 73 | ..... | 3 33 0 | 20 40 0 | 20. | 9 58 0° | 17 34 12 | ..... | 539,8 | 12 26 0 | 19 5 0 | |
| 74 | ..... | 7 0 0 | 22 40 0 | 23. | 7 43 0 | 13 36 15 | ..... | 413,9 | 13 54 0 | 21 45 0 | |
| 75 | ..... | 10 0 0 | 23 55 0 | 25. | 6 5 0 | 7 41 30 | ..... | 231,8 | 13 49 0 | 23 35 0 | |
| 76 | ..... | 11 20 0 | 24 17 0 | 25. | 6 5 0 | 5 50 30 | ..... | 175,7 | 14 13 0 | 23 59 0 | |
| 77 | ..... | 13 30 0 | 25 20 0 | 27. | 5 6 0 | 1 25 30 | ..... | 42,7 | 14 11 0 | 25 16 0 | |
| 78 | ..... | 14 51 0 | 25 36 0 | " | 4 16 0° | 1 16 0 | N. | 38,0 | 14 12 0 | 25 30 0 | |
| 79 | ..... | 14 51 0 | 25 36 0 | " | 4 16 0° | 1 36 30 | ..... | 48,3 | 14 3 0 | 25 39 0 | |
| 80 | ..... | 18 45 0 | 26 20 0 | 29. | 3 34 0 | 9 38 15 | ..... | 291,1 | 13 55 0 | 26 39 0 | |
| | | | | Oct. | | | | | | | |
| 81 | ..... | 20 49 0 | 27 0 0 | 1. | 3 1 0 | 12 2 15 | ..... | 365,1 | 14 43 0 | 27 20 0 | |
| 82 | ..... | 25 40 0 | 26 11 0 | 5. | 2 54 0 | 19 42 0 | ..... | 690,0 | 14 35 0 | 26 45 0 | |
| 83 | ..... | 28 27 0 | 23 10 0 | 8. | 2 30 0 | 27 51 15 | ..... | 888,0 | 13 35 0 | 23 52 0 | |

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE ANCIENNE.

| numéro d'ordre. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | points magné- tiques en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
|-----------------|--|---|-----------------------------------|-------|--|--------------|--|--|-----------------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | Latitude. | Longitude comptée de Paris. | |
| | | | | | | | | | | |

OBSERVATIONS DE L'AIGUILLE AIMANTÉE. (VOYAGE DE COOK.)

| | | | | | | | | | | |
|-----|---|---------|------------|-------------------|--------|-----------|----|--------|---------|------------|
| | | | | 1777. | | | | | | |
| | | S. | O. | Déc. | N. E. | | | S. | O. | |
| 84 | Océan Atlantique, à bord de la <i>Discovery</i> . | 14° 36' | 154° 44' 0 | 9. | 5° 17' | 24° 0' 0" | N. | 753',0 | 2° 5' 0 | 153° 19' 0 |
| 85 | | 11 14 | 156 50 0 | 13. | 6 15 | 17 15 45 | | 529,8 | 2 27 0 | 155 50 0 |
| 86 | | 7 24 | 158 4 0 | 17. | 5 50' | 9 9 15 | | 276,4 | 2 54 0 | 157 36 0 |
| 87 | | 6 10 | 157 56 0 | 18. | 4 38 | 6 56 45 | | 209,1 | 2 46 0 | 157 34 0 |
| 88 | | 4 36 | 158 20 0 | 19. | 5 7 | 3 16 45 | | 98,4 | 3 0 0 | 158 10 0 |
| 89 | | 3 41 | 158 40 0 | " | 5 7 | 0 56 45 | | 28,4 | 3 14 0 | 158 37 0 |
| 90 | | 3 40 | 158 40 0 | " | 5 7 | 0 48 45 | | 24,4 | 3 16 0 | 158 39 0 |
| 91 | | 3 16 | 158 44 0 | 20. | 5 19' | 0 9 30 | | 4,7 | 3 10 0 | 158 45 0 |
| 92 | | 1 50 | 159 30 0 | 21. | 3 31 | 3 4 45 | S. | 92,4 | 3 21 0 | 159 39 0 |
| 93 | | 0 20 | 158 50 0 | 22. | 6 8 | 6 1 0 | | 181,0 | 3 21 0 | 159 1 0 |
| | | N. | | | | | | | | |
| 94 | | 0 57 | 160 10 0 | 23. | 5 43' | 8 35 0 | | 253,0 | 3 22 0 | 160 34 0 |
| 95 | | 1 57 | 159 50 0 | 25. | 5 34 | 11 29 45 | | 342,0 | 3 50 0 | 160 25 0 |
| | | | | 1778. Janvier. | | | | | | |
| 96 | | 4 50 | 159 55 0 | 4. | 6 10' | 15 40 15 | | 479,0 | 3 9 0 | 160 47 0 |
| 97 | | 10 31 | 157 50 0 | 10. | 5 41 | 26 49 30 | | 851,4 | 3 47 0 | 159 20 0 |
| | | | | 1779. Nov. | | | | | N. | E. |
| 98 | A bord de la <i>Résolution</i> . | 22 48 | 130 20 0 | 19. | 0 42 | 26 5 20 | | 825,3 | 8 55 0 | 130 8 0 |
| 99 | | 20 35 | 115 27 0 | 27. | 1 0 | 23 38 45 | | 740,9 | 7 39 0 | 113 9 0 |
| 100 | A Macao. | 22 9 | 111 16 0 | 13. | 0 21 | 27 0 40 | | 858,0 | 7 47 0 | 111 19 0 |
| 101 | | 22 9 | 111 16 0 | 13. | 0 21 | 27 1 20 | | 858,3 | 7 47 0 | 111 19 0 |
| | | | | 1780. Janvier. | | | | | | |
| 102 | | 12 54 | 109 40 0 | 17. | 1 24' | 3 11 40 | | 401,1 | 6 12 0 | 119 50 0 |
| 103 | | 8 45 | 105 0 0 | 20. | 0 28 | 2 11 20 | | 65,7 | 7 42 0 | 105 0 0 |
| 104 | | 7 15 | 103 40 0 | 26. | 1 0' | 1 33 0 | N. | 46,5 | 8 4 0 | 103 40 0 |
| 105 | | 8 40 | 104 24 0 | 27. | 1 0' | 2 1 0 | S. | 60,5 | 7 45 0 | 104 22 0 |
| 106 | Sur la corvette la <i>Résolution</i> . | 4 47 | 102 35 0 | 30. | 0 38 | 7 3 45 | N. | 212,6 | 8 20 0 | 102 30 0 |
| 107 | | 1 20 | 103 10 0 | 1. | 0 44 | 13 16 0 | | 403,4 | 8 6 0 | 103 15 0 |
| | | S. | | | N. O. | | | | | |
| 108 | | 1 24 | 103 10 0 | 3. | 0 44' | 18 37 0 | | 573,6 | 8 43 0 | 103 1 0 |
| 109 | | 3 15 | 103 49 0 | 5. | 1 11 | 22 36 30 | | 705,9 | 8 33 0 | 103 35 0 |
| 110 | | 6 5 | 104 16 0 | 12. | 0 54' | 26 2 45 | | 823,8 | 7 43 0 | 104 7 0 |
| | | O. | Mai. | | | | | | S. | O. |
| 111 | | 23 34 | 3 36 0 | 20. | 15 0' | 24 47 45 | | 800,3 | 10 42 0 | 7 13 0 |
| 112 | | 17 52 | 12 14 0 | 25. | 11 0' | 12 43 10 | | 323,3 | 11 40 0 | 13 25 0 |
| 113 | | 16 40 | 13 18 0 | 26. | 11 0' | 6 45 20 | | 203,4 | 13 26 0 | 13 59 0 |
| 114 | | 14 50 | 15 34 0 | 28. | 11 52 | 6 6 10 | | 183,6 | 11 52 0 | 16 11 0 |
| 115 | | 13 47 | 16 54 0 | 29. | 10 33 | 2 48 30 | | 84,3 | 12 21 0 | 17 10 0 |
| 116 | | 13 33 | 17 18 0 | 30. | 10 45 | 1 51 0 | | 55,5 | 12 39 0 | 17 28 0 |
| 117 | | 12 54 | 17 53 0 | " | 10 57 | 0 24 40 | | 12,3 | 12 40 0 | 17 57 0 |
| 118 | | 12 37 | 18 12 0 | 31. | 10 0 | 0 53 0 | | 26,5 | 12 11 0 | 18 18 0 |
| | | N. | Juin. | | | | | | | |
| 119 | | 11 50 | 18 56 0 | 1. | 10 45 | 1 58 0 | S. | 50,0 | 12 48 0 | 18 45 0 |
| 120 | | 11 15 | 19 52 0 | 2. | 10 50 | 5 12 0 | | 156,3 | 13 46 0 | 19 24 0 |
| 121 | | 8 51 | 23 1 0 | 3. | 8 47 | 11 15 10 | | 340,9 | 14 29 0 | 22 12 0 |
| 122 | | 4 50 | 26 12 0 | 4. | 8 26 | 20 19 40 | | 629,6 | 15 4 0 | 24 39 0 |
| | | N. | | | | | | | | |
| 123 | | 1 10 | 28 50 0 | 11. | 6 49 | 29 28 30 | | 946,8 | 14 47 0 | 27 0 0 |

DÉTERMINATION D'UNE PARTIE DE L'ÉQUATEUR MAGNÉTIQUE, EN 1800.

| ORDRE D'OBSE. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | POINTE SUITE | POSITIONS GÉOGRAPHIQUES des points de l'équateur magnétique. | | REMARQUES. |
|---|--|---|-----------------------------------|-------|--|--------------|-----------------|--|-----------------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | Latitude. | Longitude comptée de Paris. | |
| INCLINAISONS DE L'AIGUILLE AIMANTÉE (VOYAGE EN AMÉRIQUE, D'ALEXANDRE DE HUMBOLDT.) | | | | | | | | | | |
| 1 | Pérou..... | S. 7° 1' 0" | O. 80° 41' | 1800. | 0° 0' 0" | ..... | 0° 0',0 | S. 7° 1' | O. 80° 51' | |
| 2 | Tompenda..... | 5 31 4 | 80 27 | ..... | 3 11 42 | ..... | 191,7 | 7 1 | 80 40 | |
| 3 | Loxa..... | 4 0 0 | 81 12 | ..... | 5 24 0 | ..... | 324,0 | 6 36 | 81 21 | |
| 4 | Cuenca..... | 2 54 9 | 80 43 | ..... | 8 24 54 | ..... | 504,9 | 6 53 | 81 16 | |
| 5 | Quito..... | 3 13 17 | 80 15 | ..... | 13 21 54 | ..... | 804,9 | 9 50 | 81 15 | |
| 6 | San Antonio..... | ..... | 80 12 | ..... | 14 25 5 | ..... | 865,1 | 7 10 | 81 16 | |
| | N. | | | | | | | | | |
| 7 | Popayan..... | 2 24 33 | 78 45 | ..... | 20 52 48 | ..... | 1252,8 | 8 21 | 80 20 | |
| 8 | San Carlos del Rio Negro. | 1 52 4 | 70 10 | ..... | 20 47 24 | ..... | 1247,4 | 8 46 | 72 16 | |
| 9 | Javita..... | 2 49 0 | 70 30 | ..... | 24 18 0 | ..... | 1458,0 | 9 43 | 72 58 | |
| 10 | Esmeralda..... | 3 13 26 | 68 38 | ..... | 25 57 54 | ..... | 1557,9 | 10 19 | 71 21 | |
| 11 | Santa Fe di Bogota.. | 4 36 5 | 76 37 | ..... | 24 16 23 | ..... | 1456,4 | 8 4 | 78 34 | |
| 12 | Lima..... | 12 2 31 | 79 33 | ..... | 9 59 24 | ..... | 599,4 | 7 9 | 78 51 | |

VOYAGE AUTOUR DU MONDE.

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE MODERNE.

| NUMERO D'OBS. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | POINTES MAGNÉTIQUES | LATITUDE magné- tique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
|---------------|--|---|-----------------------------------|-------|--|--------------|------------------------|---|--|-----------------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. | |

OBSERVATIONS DE L'AIGUILLE AIMANTÉE. (VOYAGE DE L'URANIE.)

| | | | | | | | | | | | |
|----|---|-----------|------------|------------------------------|-----------------|------------|-------|-------|--------------|----------------|---|
| 1 | Ile Timor. (Dillé).. | S. 8° 33' | E. 123° 9' | 1818. Nov. 19. | N.O. 0° 36' 12" | 30° 0' 21" | N. | 966,3 | N. 7° 33',2" | E. 122° 58',8" | |
| 2 | Ile Rawak | 0 2 | 128 35 | Déc. 0 | N.E. 1 29 52 | 14 26 57 | ..... | 440,5 | 7 18,3 | 128 46,6 | |
| 3 | En mer. (Traversée de Rawak à Guam.) | 3 31 | 135 19 | 1819. Janvier. 27. | 3 18 55 | 7 46 6 | ..... | 234,2 | 7 24,8 | 135 32,6 | |
| 4 | ..... | 1 1 | 141 35 | Février. 10. | 3 45 10 | 14 12 25 | ..... | 432,9 | 8 13,0 | 142 3,4 | |
| 5 | ..... | 0 25 | 142 33 | 12. | 2 54 10 | 16 41 47 | ..... | 511,8 | 8 6,1 | 142 59,0 | |
| 6 | ..... | 0 29 | 144 55 | 28. | 4 42 18 | 13 48 7 | ..... | 420,2 | 7 27,8 | 145 29,6 | |
| 7 | ..... | 9 22 | 146 31 | Mars. 14. | 6 20 53 | 6 45 29 | S. | 203,4 | 5 59,8 | 146 8,3 | |
| 8 | Ile Guam. (Umata).. | 13 17 | 142 32 | 25. | 2 45 10 | 13 33 27 | ..... | 412,5 | 6 25,0 | 142 11,9 | |
| 9 | (Agagna)..... | 13 28 | 142 37 | Avril. 22. | 4 39 17 | 12 46 53 | ..... | 388,2 | 7 1,1 | 142 5,0 | |
| 10 | (Fort Santa-Cruz) .. | 13 26 | 142 32 | Juin. 2. | 2 45 10 (*) | 12 37 36 | ..... | 383,5 | 7 2,9 | 142 13,3 | |
| 11 | En mer. (Traversée de Guam aux Sand- wich.) | 17 40 | 143 55 | 15. | 3 49 30 | 21 43 15 | ..... | 675,9 | 6 25,6 | 143 8,8 | |
| 12 | ..... | 19 48 | 144 51 | 17. | 3 30 11 (*) | 24 47 27 | ..... | 780,2 | 6 49,3 | 144 1,9 | |
| 13 | ..... | 20 6 | 147 26 | 18. | 3 10 52 | 26 36 24 | ..... | 843,6 | 6 3,7 | 146 37,8 | |
| 14 | ..... | 20 37 | 149 32 | 19. | 5 32 25 | 29 27 3 | ..... | 945,9 | 4 55,5 | 147 58,0 | |
| 15 | ..... | 21 59 | 151 9 | 22. | 6 26 56 | 29 33 42 | ..... | 950,0 | 6 15,0 | 149 18,6 | |
| 16 | (Traversée des Sand- wich au Port-Jack- son.) | 11 22 | 154 30 | O. Sept. 11. | 7 6 14 | 27 33 6 | ..... | 877,2 | S. 3 8,5 | O. 156 19,1 | |
| 17 | ..... | 10 52 | 153 39 | 13. | 5 15 45 | 27 50 53 | ..... | 887,8 | 3 52,1 | 155 0,8 | |
| 18 | ..... | 9 52 | 152 48 | 15. | 6 45 0 | 25 20 35 | ..... | 799,4 | 3 21,9 | 154 22,3 | |
| 19 | ..... | 9 56 | 152 15 | 16. | 5 36 1 | 25 9 4 | ..... | 792,7 | 3 12,9 | 153 32,7 | |
| 20 | ..... | 9 20 | 151 34 | 18. | 3 53 16 | 22 31 18 | ..... | 702,8 | 2 21,2 | 152 21,8 | |
| 21 | ..... | 8 36 | 147 12 | 23. | 2 56 7 | 22 23 27 | ..... | 698,4 | 3 1,5 | 147 47,9 | |
| 22 | ..... | 9 4 | 145 0 | 24. | 4 30 15 | 22 59 55 | ..... | 718,9 | 2 52,7 | 145 56,6 | |
| 23 | ..... | 8 34 | 142 18 | 26. | 3 56 55 (*) | 20 55 17 | ..... | 649,3 | 2 13,8 | 143 2,8 | (*) Déclinaison moyenne entre celles du 24 et de 27 septembre. |
| 24 | ..... | 8 26 | 141 40 | 27. | 3 23 35 | 20 46 43 | ..... | 644,5 | 2 17,4 | 142 18,3 | |
| 25 | ..... | 7 10 | 142 7 | 30. | 4 15 53 (*) | 18 44 4 | ..... | 577,5 | 2 25,9 | 142 50,0 | (*) Déclinaison moyenne entre celles du 27 septembre et du 1 ^{er} octobre. |
| 26 | ..... | 6 35 | 143 7 | Octobre 1 ^{er} . | 5 8 11 | 17 29 59 | ..... | 537,5 | 2 20,3 | 143 55,2 | |
| 27 | ..... | 5 17 | 144 24 | 2. | 3 57 14 | 14 39 45 | ..... | 447,2 | 2 9,1 | 144 54,9 | |
| 28 | ..... | 3 56 | 146 0 | 3. | 3 14 2 | 12 2 28 | ..... | 365,3 | 2 8,7 | 146 20,6 | |

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE MODERNE.

| NUMÉRO D'ORDRE. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | POINTE LEVÉE. | LATITUDE magné- tique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
|--|--|---|-----------------------------------|------------------------------|--|------------------|------------------|---|--|-----------------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. | |
| OBSERVATIONS DE L'AIGUILLE AIMANTÉE. (VOYAGE DE L'URANIE.) | | | | | | | | | | | |
| 29 | Emmer. Traversée des Sandwich au Port-Jackson. | N. 2° 41' | O. 147° 32' | 1819. Octobr. 4. | N. E. 4° 19' 16" | S. 8° 59' 20" | S. 271',4 | S. 1° 49',6" | O. 147° 52',4" | | |
| 30 | ..... | 1 51 | 149 1 | 5. | 3 54 43 | 6 48 44 | 205,1 | 1 33,6 | 149 15,0 | | |
| 31 | ..... | 0 48 | 149 45 | 6. | 3 51 51 | 4 20 1 | 130,2 | 1 21,9 | 149 53,8 | | |
| | | S. | | | | | | | | | |
| 32 | ..... | 0 19 | 149 58 | 7. | 3 28 27 | 1 20 41 | 40,3 | 0 59,2 | 150 0,4 | | |
| 33 | ..... | 0 32 | 150 2 | 7. | 3 28 27 | 2 1 2 | 60,5 | 1 32,4 | 150 5,7 | | |
| 34 | ..... | 1 56 | 150 5 | 8. | 2 41 24 | 0 15 30 | N. | 7 7 | 1 48,3 | 150 4,6 | |
| 35 | ..... | 2 0 | 150 30 | 8. | 3 59 42 | 0 18 23 | 9 2 | 1 50,8 | 150 29,4 | | |
| 36 | ..... | 2 1 | 152 47 | 9. | 3 42 50 | 0 31 22 | S. | 15,7 | 2 16,7 | 152 48,0 | |
| 37 | ..... | 2 1 | 153 25 | 9. | 3 27 45 | 0 31 37 | 15,8 | 2 16,8 | 153 26,0 | | |
| 38 | ..... | 3 15 | 154 45 | 10. | 3 45 43 | 1 58 19 | N. | 59,2 | 2 15,9 | 154 41,1 | |
| 39 | ..... | 3 0 | 157 46 | 11. | 4 54 13 | 1 36 1 | 48,0 | 2 12,2 | 157 41,9 | | |
| 40 | ..... | 2 48 | 160 30 | 12. | 4 50 35 | 1 32 54 | 46,4 | 2 1,8 | 160 26,1 | | |
| 41 | ..... | 2 16 | 162 20 | 13. | 6 38 43 | 0 33 43 | 16,9 | 1 59,2 | 162 18,0 | | |
| 42 | ..... | 2 14 | 162 36 | 13. | 6 42 18 | 2 17 57 | 69,0 | 1 5,5 | 162 27,9 | | |
| 43 | ..... | 4 25 | 164 6 | 14. | 7 17 37 | 6 33 16 | 197,3 | 1 9,3 | 163 40,9 | | |
| 44 | ..... | 6 27 | 165 32 | 15. | 5 58 20 | 11 18 3 | 342,3 | 0 46,6 | 164 56,3 | | |
| 45 | ..... | 9 31 | 167 6 | 18. | 7 19 8 | 18 20 42 | 564,8 | 0 10,8 | 165 53,7 | | |
| 46 | ..... | 11 12 | 167 56 | 19. | 8 0 39 | 21 48 2 | 678,6 | 0 0 0 | 166 20,8 | | |
| | | | | | | | | N. | | | |
| 47 | ..... | 12 52 | 168 49 | 20. | 8 0 0(“) | 25 5 16 | 790,5 | 0 10,8 | 166 58,1 | (“) Déclinaison estimée. | |
| | | | | | | | | S. | | | |
| 48 | Rio de Janeiro (1 ^{re} relâche). | 22 55 | 45 38 | 1818. Janvier. | 2 14 40 | 14 42 14 | 448,5 | 15 26,8 | 45 19,4 | | |
| | | | | | | | | | | | |
| 49 | Idem. (2 ^e relâche.) | 22 55 | 45 38 | 1820. Août et sept. | 3 34 12 | 14 42 43 | 448,7 | 15 27, | 45 8,4 | | |

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE MODERNE.

| Numéros d'ordre. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | Pointe suivie. | LATITUDE magné- tique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
|------------------|--|--|-----------------------------------|-------|--|--------------|----------------|---|--|-----------------------------------|------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. | |
| | | | | | | | | | | | |

OBSERVATIONS DE L'AIGUILLE AIMANTÉE. (VOYAGE DE LA COQUILLE.)

| | | N. | O. | 1822. | N. O. | | | S. | O. | | |
|----|---------------------------------|--------|--------|------------------------------|------------|-------------|-------|--------|------------|------------|--|
| 50 | Océan Atlantique septentrional. | 2° 50' | 24° 1' | Sept. 22. | 12° 51' 0" | 26° 36' 42" | S. | 843',8 | 10° 52' 4" | 20° 52',6" | |
| 51 | ..... | 1 18 | 25 2 | 23. | 12 57 30 | 23 49 30 | ..... | 747,0 | 10 50,0 | 22 13,6 | |
| | | | | | | | S. | | | | |
| 52 | Océan Atlantique méridional. | 0 13 | 26 18 | 24. | 13 54 0 | 19 41 54 | ..... | 608,9 | 10 4,7 | 23 53,4 | |
| 53 | ..... | 1 40 | 25 38 | 25. | 12 45 0 | 18 35 6 | ..... | 572,6 | 10 58,5 | 23 30,7 | |
| 54 | ..... | 2 48 | 25 50 | 26. | 11 30 0 | 18 13 36 | ..... | 561,0 | 11 57,7 | 23 57,1 | |
| 55 | ..... | 4 35 | 26 4 | 27. | 12 30 0 | 15 15 30 | ..... | 466,0 | 12 9,9 | 24 22,0 | |
| 56 | ..... | 6 20 | 26 15 | 28. | 11 30 0 | 11 7 0 | ..... | 336,7 | 11 49,9 | 25 7,0 | |
| | | | | | | | | | | | |
| 57 | ..... | 11 14 | 26 24 | Octobr. 1 ^{er} . | 8 0 0 | 2 9 24 | ..... | 65,2 | 12 18,6 | 26 14,7 | |
| 58 | ..... | 11 43 | 26 32 | ..... | 8 0 0 | 1 37 18 | ..... | 48,7 | 12 31,2 | 26 25,1 | |
| 59 | ..... | 12 27 | 26 53 | 2. | 8 0 0 | 0 0 0 | ..... | 0,0 | 12 27,0 | 26 53,0 | |
| 60 | ..... | 12 55 | 27 4 | ..... | 8 0 0 | 0 11 0 | N. | 5,5 | 12 49,5 | 27 4,8 | |
| 61 | ..... | 13 25 | 27 13 | ..... | 8 0 0 | 0 51 18 | ..... | 25,7 | 12 59,6 | 27 16,7 | |
| 62 | ..... | 14 42 | 27 50 | 3. | 9 0 0 | 3 13 12 | ..... | 96,7 | 13 6,5 | 28 5,6 | |
| 63 | ..... | 16 43 | 28 15 | 4. | 8 0 0 | 6 28 48 | ..... | 195,0 | 13 29,9 | 28 43,1 | |
| 64 | ..... | 19 30 | 29 15 | 5. | 7 56 0 | 11 1 12 | ..... | 333,7 | 13 59,5 | 30 3,1 | |
| 65 | ..... | 21 11 | 32 49 | 7. | 3 20 0 | 12 42 0 | ..... | 385,7 | 14 45,9 | 33 12,6 | |
| | | | | | | | N. E. | | | | |
| 66 | ..... | 25 33 | 44 4 | 13. | 5 10 0 | 20 25 30 | ..... | 632,8 | 15 2,8 | 43 3,1 | |
| 67 | ..... | 27 18 | 48 52 | 15. | 6 30 0 | 23 7 12 | ..... | 722,0 | 15 19,6 | 47 23,9 | |
| 68 | Île Santa-Catharina. | 27 26 | 51 1 | " | 6 26 12 | 22 45 54 | ..... | 711,0 | 15 39,5 | 49 35,1 | |
| | | | | | | | | | | | |
| 69 | En mer | 26 14 | 77 43 | 1823. Février. | 13 19 0 | 30 5 6 | ..... | 969,3 | 10 30,8 | 73 46,8 | |
| 70 | ..... | 23 57 | 78 10 | 18. | 13 0 0 | 27 11 36 | ..... | 864,4 | 9 54,7 | 74 46,1 | |
| 71 | ..... | 21 54 | 78 49 | 20. | 11 23 30 | 24 17 12 | ..... | 762,8 | 9 26,2 | 76 12,1 | |
| 72 | ..... | 19 43 | 79 1 | 21. | 9 47 24 | 20 11 30 | ..... | 625,1 | 9 27,0 | 77 11,0 | |
| 73 | ..... | 16 52 | 79 5 | 22. | 9 15 48 | 14 50 12 | ..... | 452,7 | 9 25,2 | 77 50,0 | |
| 74 | ..... | 14 6 | 79 6 | 23. | 9 33 0 | 9 54 36 | ..... | 299,5 | 9 10,6 | 78 15,2 | |
| 75 | ..... | 13 0 | 79 15 | 24. | 8 2 0 | 8 25 36 | ..... | 254,2 | 8 48,3 | 78 38,8 | |
| 76 | Au Callao. (Pérou.). | 12 3 | 79 34 | Mars. 3. | 9 30 0 | 8 33 18 | ..... | 258,1 | 7 48,4 | 78 50,7 | |
| 77 | En mer | 11 18 | 80 51 | 5. | 8 27 36 | 7 5 54 | ..... | 213,8 | 7 46,5 | 80 19,1 | |

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE MODERNE.

| NUMÉROS D'ORDRE. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | POINTE ALLEVÉE. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
|------------------|------------------------------------|---|-----------------------------|-------------------|--|--------------|-----------------|--|-------------|---------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | Latitude magnétique en minutes. | Longitude. | |
| 78 | En mer..... | S. 10° 8' | O. 81° 46' | Mars. 6. | N. E. 8° 31' 48" | 4° 7' 36" | N. | 124',0 | S. 8° 5',4" | O. 81° 28',3" |
| 79 | ..... | 8 54 | 82 47 | 7. | 7 42 0 | 2 19 18 | ..... | 69,7 | 7 44,9 | 82 37,6 |
| 80 | ..... | 8 23 | 83 9 | ..... | 7 42 0 | 1 41 18 | ..... | 50,7 | 7 32,2 | 83 2,6 |
| 81 | ..... | 7 45 | 83 47 | 8. | 8 23 36 | 0 1 24 | ..... | 0,7 | 7 44,3 | 83 46,9 |
| 82 | ..... | 6 53 | 83 45 | ..... | 8 23 36 | 1 50 48 | S. | 55,4 | 7 47,8 | 83 53,1 |
| 83 | Payta. (Amérique.) | 5 6 | 83 32 | " | 8 55 36 | 3 56 54 | ..... | 118,6 | 7 3,2 | 83 50,5 |
| 84 | En mer..... | 6 23 | 85 59 | 24. | 10 48 30 | 0 51 18 | N. | 25,6 | 5 57,8 | 85 54,2 |
| 85 | ..... | 7 32 | 87 26 | 25. | 10 47 42 | 3 50 42 | ..... | 115,5 | 5 38,5 | 87 4,2 |
| | | Avril. | | | | | | | | |
| 86 | ..... | 18 9 | 100 12 | 2. | 8 10 0 | 27 36 18 | ..... | 879,1 | 3 38,8 | 98 4,5 |
| 87 | ..... | 17 36 | 104 40 | 4. | 7 6 12 | 27 14 0 | ..... | 865,9 | 3 16,7 | 102 49,6 |
| 88 | ..... | 17 16 | 108 29 | 6. | 6 15 42 | 27 46 54 | ..... | 885,4 | 2 35,9 | 106 50,7 |
| 89 | ..... | 16 51 | 115 54 | 9. | 5 23 0 | 27 29 48 | ..... | 875,2 | 2 19,7 | 114 30,5 |
| 90 | ..... | 16 51 | 125 31 | 12. | 5 38 0 | 27 35 48 | ..... | 878,8 | 2 16,4 | 124 3,3 |
| 91 | ..... | 16 53 | 132 9 | 15. | 5 50 0 | 27 42 42 | ..... | 882,9 | 2 14,7 | 130 37,7 |
| 91 ^b | Ile de Taiti..... | 17 29 | 151 49 | Mai. | 6 40 24 | 30 3 0 | ..... | 968,0 | 1 28,1 | 149 50,5 |
| | | E. | | | | | | | N. | E. |
| 92 | ..... | 12 3 | 165 22 | 1 ^{er} . | 10 21 0 | 29 29 42 | ..... | 847,5 | 3 29,1 | 168 13,2 |
| 93 | ..... | 10 22 | 162 27 | 3. | 7 12 0 | 25 37 0 | ..... | 808,9 | 3 0,5 | 164 9,3 |
| 94 | ..... | 7 50 | 157 6 | 6. | 7 38 54 | 21 55 54 | ..... | 682,9 | 3 26,8 | 159 41,1 |
| 95 | ..... | 5 16 | 153 40 | 8. | 6 36 24 | 20 8 12 | ..... | 623,3 | 5 3,2 | 154 51,8 |
| 96 | Port-Praslin..... | 4 50 | 150 28 | " | 6 48 24 | 20 48 42 | ..... | 645,6 | 5 51,0 | 151 44,6 |
| 97 | En mer..... | 3 28 | 148 35 | 23. | 5 0 0 | 17 28 6 | ..... | 536,5 | 5 26,5 | 149 21,8 |
| 98 | ..... | 3 5 | 141 44 | 27. | 5 12 0 | 17 57 6 | ..... | 552,1 | 6 4,8 | 142 34,1 |
| 99 | ..... | 1 37 | 137 52 | 29. | 2 10 0 | 16 7 36 | ..... | 498,3 | 6 40,9 | 138 10,9 |
| 100 | ..... | 0 20 | 135 59 | 30. | 2 0 0 | 12 41 30 | ..... | 385,5 | 6 5,3 | 136 12,5 |
| 101 | ..... | 0 5 | 133 46 | 31. | 1 0 0 | 12 21 6 | ..... | 374,9 | 6 9,8 | 133 52,5 |
| | | Sept. | | | | | | | | |
| 102 | ..... | 0 3 | 131 9 | 2. | 2 50 0 | 13 50 24 | ..... | 421,3 | 6 57,8 | 131 29,9 |
| 103 | Offak. (Ile Vaigou.) | 0 2 | 128 23 | " | 1 1 42 | 13 34 18 | ..... | 413,0 | 6 51,2 | 128 30,6 |
| 104 | Cayeli | 3 23 | 124 46 | 29. | 0 31 48 | 20 8 24 | ..... | 623,4 | 7 0,4 | 124 51,8 |
| | | Octob. | | | | | | | | |
| 105 | Amboine..... | 3 42 | 125 50 | " | 0 28 0 | 20 32 18 | ..... | 636,9 | 6 53,9 | 125 55,3 |
| | | E. | | | | | | | | |
| 106 | En mer..... | 11 54 | 173 46 | 1824. Mai. 3. | 10 47 0 | 24 12 0 | ..... | 759,9 | 0 32,5 | 176 9,2 |
| 107 | ..... | 8 45 | 175 4 | 6. | 10 32 0 | 16 34 12 | ..... | 507,7 | 0 25,9 | 176 37,2 |
| 108 | ..... | 7 31 | 174 25 | 7. | 8 30 0 | 15 11 18 | ..... | 463,8 | 0 8,1 | 175 33,7 |
| 109 | ..... | 6 22 | 173 42 | 9. | 8 5 0 | 12 25 6 | ..... | 377,0 | 0 8,7 | 174 35,1 |
| 110 | ..... | 4 1 | 173 19 | 11. | 9 0 0 | 10 9 18 | ..... | 307,1 | 1 2,3 | 174 7,1 |
| 111 | ..... | 2 57 | 172 55 | 13. | 7 45 0 | 6 28 6 | ..... | 194,7 | 0 15,9 | 173 21,3 |
| 112 | ..... | 1 45 | 172 47 | 15. | 7 45 0 | 3 35 0 | ..... | 107,6 | 0 1,6 | 173 1,5 |
| 113 | ..... | 1 43 | 172 47 | ..... | 7 45 0 | 3 13 42 | ..... | 96,9 | 0 7,0 | 173 0,1 |
| 114 | ..... | 0 40 | 171 59 | 16. | 7 45 0 | 3 4 6 | ..... | 92,1 | 0 51,3 | 172 11,4 |

| DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE MODERNE. | | | | | | | | | | | |
|---|--|---|-----------------------------------|----------------|--|--------------|----------------|---|--|-----------------------------------|------------|
| numéros d'ordre. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | Pente dérivée. | LATITUDE magné- tique en minutes. | POSITION GÉOGRAPHIQUE des points de l'équateur magnétique. | | REMARQUES. |
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude. | Longitude comptée de Paris. | |
| OBSERVATIONS DE L'ÉQUATEUR MAGNÉTIQUE. (VOYAGE DE LA COQUILLE.) | | | | | | | | | | | |
| 115 | | N. 0° 11' | E. 171° 3' | 1824. Mai. | N. E. 8° 2' 0" | 2° 20' 30" | ..... | 70',3 | N. 1° 20',6 | E. 171° 12',8" | |
| 116 | | 0 53 | 170 39 | 18. | 8 40 0 | 0 31 30 | ..... | 15,7 | 1 8,5 | 170 41,4 | |
| 117 | | 1 6 | 170 26 | ..... | 8 40 0 | 0 0 0 | ..... | 0,0 | 1 6 | 170 26,0 | |
| 118 | | 1 33 | 170 26 | 19. | 10 15 0 | 1 12 30 | S. | 36,2 | 0 57,4 | 170 19,6 | |
| 119 | | 3 39 | 169 39 | 24. | 8 1 0 | 4 43 18 | ..... | 141,9 | 1 18,5 | 169 19,2 | |
| 120 | | 6 36 | 166 19 | 29. | 8 15 0 | 6 11 6 | ..... | 186,1 | 3 31,8 | 165 52,2 | |
| | | | | Juin. | | | | | | | |
| 121 | | 5 4 | 164 5 | 1°. | 10 0 0 | 3 24 6 | ..... | 102,1 | 3 24,5 | 163 47,2 | |
| 122 | Ualan (Iles Carolines) | 5 21 | 160 41 | " | 9 20 30 | 3 5 12 | ..... | 92,7 | 3 47,3 | 160 25,9 | |
| 123 | En mer | 8 40 | 154 23 | 20. | 7 30 0 | 5 21 42 | ..... | 161,2 | 6 0,2 | 154 1,8 | |
| 124 | | 8 16 | 151 46 | 22. | 5 38 0 | 3 49 18 | ..... | 114,8 | 6 21,7 | 151 34,6 | |
| 125 | | 7 32 | 150 47 | 23. | 4 0 0 | 1 52 30 | ..... | 56,3 | 6 35,8 | 150 43,0 | |
| 126 | | 7 25 | 150 38 | ..... | 4 10 0 | 1 33 42 | ..... | 46,9 | 6 38,2 | 150 34,6 | |
| 127 | | 7 27 | 150 48 | 24. | 5 0 0 | 1 41 0 | ..... | 50,5 | 6 36,7 | 150 43,6 | |
| 128 | | 7 13 | 149 13 | 27. | 5 42 0 | 1 11 12 | ..... | 35,6 | 6 37,6 | 149 9,4 | |
| | | | | Juillet. | | | | | | | |
| 129 | | 6 59 | 145 2 | 4. | 3 30 0 | 0 3 42 | ..... | 1,8 | 6 57,2 | 145 1,9 | |
| 130 | | 6 51 | 144 59 | ..... | 3 30 0 | 0 16 12 | ..... | 8,1 | 6 42,9 | 144 58,5 | |
| 131 | | 6 21 | 144 7 | 7. | 3 0 0 | 2 0 0 | N. | 60,0 | 7 20,0 | 144 10,2 | |
| 132 | | 0 40 | 141 36 | 13. | 0 53 0 | 12 13 54 | ..... | 371,2 | 6 51,2 | 141 41,7 | |
| | | | | S. | | | | | | | |
| 133 | Havre Dory. (Nouvelle-Guinée.) | 0 52 | 131 45 | " | 1 35 36 | 14 45 24 | ..... | 450,2 | 6 38,0 | 131 57,5 | |
| 134 | En mer | 6 11 | 119 39 | Août. 23. | 1 0 0 | 24 2 6 | ..... | 754,2 | 6 23,1 | 119 52,2 | |
| | | | | N.O. | | | | | | | |
| 135 | Sourabaya. (Ile Java.) | 7 13 | 110 23 | " | 0 10 18 | 26 46 0 | ..... | 849,3 | 6 56,3 | 110 20,4 | |
| 136 | En mer | 5 30 | 105 43 | Sept. 14. | 3 0 0 | 23 41 48 | ..... | 742,6 | 6 51,6 | 105 4,1 | |
| | | 20 23 | 2 29 | Déc. 29. | 21 50 0 | 25 43 42 | ..... | 812,8 | 7 48,5 | O. 7 41 ,4 | |
| | | | | O. | | | | | | | |
| 137 | Ile de Sainte-Hélène. | 15 55 | 8 3 | 1825. Janvier. | 19 34 30 | 14 56 36 | ..... | 456,1 | 8 45,3 | 10 39,5 | |
| 138 | En mer | 13 6 | 11 5 | 14. | 18 45 0 | 8 47 18 | ..... | 265,2 | 8 54,9 | 12 31,9 | |
| 139 | | 10 47 | 12 49 | 15. | 18 40 0 | 3 4 30 | ..... | 92,3 | 9 19,6 | 13 19,0 | |
| 140 | | 9 44 | 14 14 | 16. | 18 20 0 | 0 1 54 | S. | 0,9 | 9 44,8 | 14 13,7 | |
| 141 | | 8 16 | 15 44 | 17. | 17 0 0 | 2 12 48 | ..... | 66,4 | 9 19,5 | 15 24,4 | |
| 142 | Ile de l'Ascension... | 7 56 | 16 44 | " | 16 52 18 | 1 41 42 | ..... | 50,9 | 8 44,7 | 16 29,0 | |

DÉTERMINATION DE L'ÉQUATEUR MAGNÉTIQUE, ÉPOQUE MODERNE.

| NOMS D'ORDRE. | LIEU où l'observation a été faite. | POSITION GÉOGRAPHIQUE du lieu de l'observation. | | DATE. | RÉSULTAT des observations magnétiques. | | POINTE MILITIA. | LATITUDE magné- tique en minutes. | POSITION GÉOGRAPHIQUE du point correspondant de l'équateur magnétique. | |
|---------------|--|---|-----------------------------------|-------|--|--------------|--------------------|---|--|----------------------------------|
| | | Latitude. | Longitude comptée de Paris. | | Déclinaison. | Inclinaison. | | | Latitude S. | Longitude à l'O. de Paris. |
| | | | | | | | | | | |

OBSERVATIONS MAGNÉTIQUES PAR JULES DE BLOSSEVILLE. (VOYAGE DANS L'INDE DE LA CORVETTE LA CHEVRETTE,
EN 1827 ET 1828.)

| | | N. | E. | 1827. | N. E. | | | | | |
|-----|----------------------------------|---------|--------|----------------------------|-----------|-------------|-------|--------|------------|-------------|
| 143 | Calcuta..... | 22° 34' | 86° 1' | Nov. 8. | 2° 38' 5" | 26° 32' 56" | S. | 841',6 | 8° 33' 17" | 85° 20' 44" |
| 144 | Chandernagor..... | 22 51 | 85 58 | 23. | 2 39 52 | 26 47 3 | ..... | 849,9 | 8 42 0 | 85 16 49 |
| | | | | | | | | | | |
| 145 | Karical..... | 10 55 | 77 33 | 1828. Janvier. 23. | 1 14 1 | 1 51 28 | ..... | 55,7 | 9 59 16 | 77 31 47 |
| 146 | Trinquemalé..... | 8 32 | 78 51 | Février. 13. | 1 8 5 | 2 38 37 | N. | 79,3 | 9 51 20 | 78 52 35 |
| 147 | Jaffnapatnam..... | 9 40 | 77 41 | 20. | 1 16 0 | 0 39 45 | ..... | 19,9 | 9 59 53 | 77 41 27 |
| 148 | Aripo..... | 8 48 | 77 31 | 29. | 1 16 | 2 17 34 | ..... | 68,8 | 9 56 48 | 77 32 32 |
| 149 | Changani-Koe..... | 9 47 | 77 36 | Mars. 10. | 1 16 | 0 31 8 | ..... | 18,3 | 10 5 17 | 77 36 25 |
| | | | | S. | | | | | | |
| 150 | J. Kuyper. (Rade de Batavia.) | 6 2 | 104 21 | Mai. 29. | 0 31 | 25 32 44 | ..... | 806,4 | 7 24 8 | 104 28 19 |
| 151 | Batavia. (Ile Java.) | 6 9 | 104 27 | Juin. 8. | 0 31 0 | 25 55 45 | ..... | 819,8 | 7 30 48 | 104 34 26 |
| | | | | N. | | | | | | |
| 152 | Pondichéry..... | 11 56 | 77 32 | Août. 1 ^{er} . | 1 13 0 | 3 43 4 | S. | 111,6 | 10 4 23 | 77 29 35 |

CHAPITRE IX.

TRACÉ DE L'ÉQUATEUR MAGNÉTIQUE.

S I^{er}. — Observations de 1776 à 1780, par Le Gentil, Dalrymple, Panton et Cook. (Époque moyenne ancienne de 1773.)

| Degrés de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. | |
|----------------------------|--|--------------------|-------------------------|----------------------|--|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | | |
| O. Paris | S. | S. | S. | | |
| 0° | 9° 55' | 8° 25' | " | | |
| 1 | 10 23 | 8 55 | " | | |
| 2 | 10 45 | 9 20 | 7° 55' | | |
| 3 | 11 1 | 9 36 | 8 16 | | |
| 4 | 11 9 | 9 45 | 8 32 | | |
| 5 | 11 10 | 9 49 | 8 45 | | |
| 6 | 11 2 | 9 50 | 8 54 | | |
| 7 | 10 45 | 9 46 | 8 57 | | |
| 8 | 10 34 | 9 40 | 9 0 | | |
| 9 | 10 33 | 9 42 | 9 0 | | |
| 10 | 11 0 | 9 52 | 8 58 | | |
| 11 | 11 42 | 10 15 | 9 5 | | |
| 12 | 12 37 | 10 50 | 9 25 | | |
| 13 | 13 13 | 11 54 | 9 47 | | |
| 14 | 13 25 | 11 47 | 10 10 | | |
| 15 | 13 12 | 11 58 | 10 34 | | |
| 16 | 12 49 | 11 52 | 10 54 | | |
| 17 | 12 35 | 11 49 | 11 9 | | |
| 18 | 12 44 | 11 59 | 11 22 | | |
| 19 | 13 23 | 12 18 | 11 36 | | |
| 20 | 14 0 | 12 42 | 11 48 | | |
| 21 | 14 25 | 13 5 | 12 1 | | |
| 22 | 14 47 | 13 24 | 12 7 | | |
| 23 | 15 4 | 13 40 | 12 17 | | |
| 24 | 15 12 | 13 51 | 12 22 | | |
| 25 | 15 12 | 13 56 | 12 23 | | |
| 26 | 14 59 | 13 56 | 12 19 | | |
| 27 | 14 48 | 13 54 | 12 20 | | |
| 28 | 14 37 | 13 53 | 12 36 | | |
| 29 | 14 39 | 14 1 | 13 6 | | |
| 30 | 14 54 | 14 0 | 13 31 | | |
| 31 | 15 16 | 14 38 | 13 46 | | |
| 32 | 15 28 | 14 33 | 13 54 | | |
| 33 | 15 30 | 14 40 | 13 53 | | |
| 34 | 15 25 | 14 33 | 13 48 | | |
| 35 | 15 17 | 14 23 | 13 35 | | |
| 36 | 15 15 | 14 14 | 13 23 | | |
| 37 | 15 15 | 14 7 | 13 14 | | |
| 38 | " | 14 3 | " | Courbe hypothétique. | |
| 39 | " | 13 57 | " | | |
| 40 | " | 13 50 | " | | |
| 41 | " | 13 42 | " | | |
| 42 | " | 13 33 | " | | |
| 43 | " | 13 54 | " | | |
| 44 | " | 13 19 | " | | |
| 45 | " | 13 15 | " | | |
| 46 | " | 13 12 | " | | |
| 47 | " | 13 9 | " | | |
| 48 | " | 13 6 | " | | |
| 49 | " | 13 1 | " | | |

| Degrés de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. | |
|----------------------------|--|--------------------|-------------------------|------------|--|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | | |
| O. Paris | S. | S. | S. | | |
| 50° | 12° 57' | " | " | | |
| 51 | 12 54 | " | " | | |
| 52 | 12 48 | " | " | | |
| 53 | 12 40 | " | " | | |
| 54 | 12 34 | " | " | | |
| 55 | 12 25 | " | " | | |
| 56 | 12 18 | " | " | | |
| 57 | 12 9 | " | " | | |
| 58 | 11 50 | " | " | | |
| 59 | 11 50 | " | " | | |
| 60 | 11 40 | " | " | | |
| 61 | 11 31 | " | " | | |
| 62 | 11 20 | " | " | | |
| 63 | 11 8 | " | " | | |
| 64 | 10 55 | " | " | | |
| 65 | 10 40 | " | " | | |
| 66 | 10 25 | " | " | | |
| 67 | 10 10 | " | " | | |
| 68 | 9 54 | " | " | | |
| 69 | 9 38 | " | " | | |
| 70 | 9 17 | " | " | | |
| 71 | 8 58 | " | " | | |
| 72 | 8 38 | " | " | | |
| 73 | 8 21 | " | " | | |
| 74 | 8 3 | " | " | | |
| 75 | 7 45 | " | " | | |
| 76 | 7 25 | " | " | | |
| 77 | 7 8 | " | " | | |
| 78 | 6 48 | " | " | | |
| 79 | 6 29 | " | " | | |
| 80 | 6 7 | " | " | | |
| 81 | 5 45 | " | " | | |
| 82 | 5 25 | " | " | | |
| 83 | 5 2 | " | " | | |
| 84 | 4 41 | " | " | | |
| 85 | 4 20 | " | " | | |
| 86 | 3 58 | " | " | | |
| 87 | 3 40 | " | " | | |
| 88 | 3 22 | " | " | | |
| 89 | 3 4 | " | " | | |
| 90 | 2 49 | " | " | | |
| 91 | 2 35 | " | " | | |
| 92 | 2 23 | " | " | | |
| 93 | 2 12 | " | " | | |
| 94 | 2 3 | " | " | | |
| 95 | 1 56 | " | " | | |
| 96 | 1 48 | " | " | | |
| 97 | 1 43 | " | " | | |
| 98 | 1 36 | " | " | | |
| 99 | 1 30 | " | " | | |

| de la longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|------------------------|--|--------------------|-------------------------|------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| O. Paris | S. | S. | | |
| 100° | 1° 25' | " | | |
| 101 | 1 22 | " | | |
| 102 | 1 17 | " | | |
| 103 | 1 13 | " | | |
| 104 | 1 11 | " | | |
| 105 | 1 10 | " | | |
| 106 | 1 9 | " | | |
| 107 | 1 8 | " | | |
| 108 | 1 7 | " | | |
| 109 | 1 6 | " | | |
| 110 | 1 4 | " | | |
| 111 | 1 4 | " | | |
| 112 | 1 3 | " | | |
| 113 | 1 2 | " | | |
| 114 | 1 2 | " | | |
| 115 | 1 3 | " | | |
| 116 | 1 5 | " | | |
| 117 | 1 7 | " | | |
| 118 | 1 9 | " | | |
| 119 | 1 10 | " | | |
| 120 | 1 12 | " | | |
| 121 | 1 14 | " | | |
| 122 | 1 16 | " | | |
| 123 | 1 17 | " | | |
| 124 | 1 20 | " | | |
| 125 | 1 22 | " | | |
| 126 | 1 24 | " | | |
| 127 | 1 26 | " | | |
| 128 | 1 28 | " | | |
| 129 | 1 31 | " | | |
| 130 | 1 35 | " | | |
| 131 | 1 35 | " | | |
| 132 | 1 37 | " | | |
| 133 | 1 38 | " | | |
| 134 | 1 40 | " | | |
| 135 | 1 42 | " | | |
| 136 | 1 45 | " | | |
| 137 | 1 47 | " | | |
| 138 | 1 50 | " | | |
| 139 | 1 52 | " | | |
| 140 | 1 53 | " | | |
| 141 | 1 55 | " | | |
| 142 | 1 55 | " | | |
| 143 | 1 56 | " | | |
| 144 | 1 53 | " | | |
| 145 | 1 50 | " | | |
| 146 | 1 45 | " | | |
| 147 | 1 40 | " | | |
| 148 | 1 32 | " | | |
| 149 | 1 26 | " | | |
| 150 | 2° 1' | 1 44 | " | |
| 151 | 1 51 | 1 27 | 1° 5' | |
| 152 | 1 55 | 1 30 | 1 3 | |
| 153 | 2 1 | 1 6 | 1 8 | |
| 154 | 2 12 | 1 40 | 1 14 | |
| 155 | 2 30 | 1 54 | 1 19 | |
| 156 | 2 45 | 2 10 | 1 23 | |
| 157 | 3 3 | 2 30 | 1 23 | |
| 158 | 3 35 | 3 0 | 1 19 | |
| 159 | 4 0 | 3 21 | 1 14 | |
| 160 | 4 6 | 3 25 | 1 6 | |
| 161 | 4 4 | 3 21 | 0 57 | |

| de la longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|------------------------|--|--------------------|-------------------------|--|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| O. Paris | S. | S. | S. | |
| 162° | 3° 52' | 3° 5' | 0° 44' | |
| 163 | 3 42 | 2 49 | 0 29 | |
| 164 | 3 28 | 2 25 | 0 12 | N. |
| 165 | 3 10 | 1 58 | 0 9 | |
| 166 | 2 55 | 1 33 | 0 23 | |
| 167 | 2 35 | 1 3 | 0 20 | |
| 168 | 2 10 | 0 33 | 0 42 | |
| 169 | 1 48 | 0 12 | 0 45 | 1 ^{er} nord = 169° 35'. Ouest de Paris. |
| | | | | N. |
| 170 | 1 23 | 0 7 | 0 43 | |
| 171 | 0 58 | 0 11 | 0 38 | |
| 172 | 0 38 | 0 15 | 0 34 | |
| 173 | 0 28 | 0 16 | 0 26 | |
| 174 | 0 23 | 0 16 | 0 21 | |
| 175 | 0 23 | 0 10 | 0 18 | |
| 176 | 0 22 | 0 7 | 0 17 | |
| 177 | 0 27 | 0 2 | 0 18 | 2 ^e nord = 177° 18'. Idem. |
| | | | | S. |
| 178 | 0 33 | 0 7 | 0 21 | |
| 179 | 0 38 | 0 20 | 0 25 | |
| 180 | 0 47 | 0 36 | 0 30 | |
| E. Paris | | | | |
| 179 | 1 0 | 0 44 | 0 37 | |
| 178 | 1 22 | 0 50 | 0 45 | |
| 177 | 1 23 | 0 30 | 0 54 | |
| | | | | N. |
| 176 | 0 22 | 0 7 | 1 3 | |
| 175 | 0 28 | 0 24 | 1 13 | 3 ^e nord = { 183° 49'. Ouest de Paris. 176 11. Est de Paris. |
| | | | | N. |
| 174 | 0 5 | 0 40 | 1 25 | |
| 173 | 0 18 | 0 54 | 1 38 | |
| 172 | 0 38 | 1 16 | 1 53 | |
| 171 | 1 4 | 1 37 | 2 6 | |
| 170 | 1 37 | 2 4 | 2 22 | |
| 169 | 2 10 | 2 25 | 2 33 | |
| 168 | " | 2 47 | " | |
| 167 | " | 3 2 | " | |
| 166 | " | 3 18 | " | |
| 165 | " | 3 35 | " | |
| 164 | " | 3 52 | " | |
| 163 | " | 4 8 | " | |
| 162 | " | 4 24 | " | |
| 161 | " | 4 39 | " | |
| 160 | " | 4 57 | " | |
| 159 | " | 5 14 | " | |
| 158 | " | 5 33 | " | |
| 157 | " | 5 52 | " | |
| 156 | " | 6 9 | " | |
| 155 | " | 6 24 | " | |
| 154 | " | 6 38 | " | |
| 153 | " | 6 53 | " | |
| 152 | " | 7 9 | " | |
| 151 | " | 7 22 | " | |
| 150 | " | 7 35 | " | |
| 149 | " | 7 47 | " | |
| 148 | " | 7 56 | " | |
| | | | | Courbe hypothétique. |

| DÉGRÉS de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|----------------------------|--|--------------------|-------------------------|------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| E. Paris | N. | N. | N. | |
| 147° | " | 8° 12' | " | |
| 146 | " | 8 17 | " | |
| 145 | " | 8 23 | " | |
| 144 | " | 8 32 | " | |
| 143 | " | 8 38 | " | |
| 142 | 8° 32' | 8 40 | 8° 47' | |
| 141 | 8 17 | 8 33 | 8 50 | |
| 140 | 8 0 | 8 24 | 8 53 | |
| 139 | 7 43 | 8 13 | 8 50 | |
| 138 | 7 33 | 8 2 | 8 37 | |
| 137 | 7 25 | 7 53 | 8 30 | |
| 136 | 7 31 | 7 53 | 8 22 | |
| 135 | 7 43 | 7 58 | 8 22 | |
| 134 | 7 55 | 8 10 | 8 32 | |
| 133 | 8 9 | 8 24 | 8 47 | |
| 132 | 8 27 | 8 44 | 9 4 | |
| 131 | 8 44 | 8 59 | 9 17 | |
| 130 | 8 55 | 9 12 | 9 31 | |
| 129 | 9 9 | 9 25 | 9 45 | |
| 128 | 9 18 | 9 33 | 9 53 | |
| 127 | 9 21 | 9 38 | 9 57 | |
| 126 | 9 20 | 9 40 | 9 57 | |
| 125 | 9 17 | 9 36 | 9 52 | |
| 124 | 9 15 | 9 31 | 9 46 | |
| 123 | 9 8 | 9 22 | 9 37 | |
| 122 | 9 3 | 9 13 | 9 25 | |
| 121 | 8 52 | 9 3 | 9 16 | |
| 120 | 8 36 | 8 47 | 9 2 | |
| 119 | 8 22 | 8 34 | 8 48 | |
| 118 | 8 9 | 8 21 | 8 35 | |
| 117 | 8 0 | 8 9 | 8 23 | |
| 116 | 7 50 | 8 2 | 8 15 | |
| 115 | 7 46 | 7 55 | 8 7 | |
| 114 | 7 40 | 7 51 | 8 2 | |
| 113 | 7 37 | 7 48 | 7 56 | |
| 112 | 7 40 | 7 48 | 7 55 | |
| 111 | 7 41 | 7 49 | 7 58 | |
| 110 | 7 43 | 7 54 | 8 3 | |
| 109 | 7 43 | 7 48 | 8 9 | |
| 108 | 7 43 | 8 0 | 8 15 | |
| 107 | 7 42 | 8 4 | 8 20 | |
| 106 | 7 40 | 8 7 | 8 25 | |
| 105 | 7 42 | 8 7 | 8 30 | |
| 104 | 7 31 | 7 58 | 8 33 | |
| 103 | 7 13 | 7 32 | 8 33 | |
| 102 | 7 18 | 7 52 | 8 31 | |
| 101 | 7 48 | 8 10 | 8 30 | |
| 100 | 8 12 | 8 23 | 8 34 | |
| 99 | 8 22 | 8 30 | 8 38 | |
| 98 | 8 29 | 8 33 | 8 40 | |
| 97 | 8 23 | 8 32 | 8 37 | |
| 96 | 8 28 | 8 37 | 8 43 | |
| 95 | 8 35 | 8 46 | 8 54 | |
| 94 | 8 41 | 8 55 | 9 3 | |
| 93 | 8 45 | 9 0 | 9 7 | |
| 92 | 8 48 | 9 0 | 9 8 | |
| 91 | 8 47 | 8 59 | 9 7 | |
| 90 | 8 45 | 8 58 | 9 9 | |
| 89 | 8 41 | 8 58 | 9 13 | |
| 88 | 8 34 | 8 58 | 9 21 | |
| 87 | 8 37 | 8 58 | 9 28 | |
| 86 | 8 32 | 9 4 | 9 39 | |

| DÉGRÉS de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|----------------------------|--|--------------------|-------------------------|------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| E. Paris | N. | N. | N. | |
| 85° | 8° 39' | 9° 22' | 9° 57' | |
| 84 | 9 8 | 9 40 | 10 19 | |
| 83 | 9 8 | 9 59 | 10 44 | |
| 82 | 9 4 | 10 20 | 11 7 | |
| 81 | 9 7 | 10 30 | 11 22 | |
| 80 | 9 17 | 10 35 | 11 16 | |
| 79 | 9 33 | 10 35 | 11 15 | |
| 78 | 9 46 | 10 33 | 11 2 | |
| 77 | 9 48 | 10 25 | 10 52 | |
| 76 | 9 55 | 10 23 | 10 44 | |
| 75 | 10 9 | 10 26 | 10 41 | |
| 74 | 10 31 | 10 42 | 10 51 | |
| 73 | 10 55 | 11 5 | 11 14 | |
| 72 | 11 3 | 11 15 | 11 23 | |
| 71 | 10 57 | 11 7 | 11 18 | |
| 70 | 10 59 | 11 8 | 11 19 | |
| 69 | 11 9 | 11 23 | 11 33 | |
| 68 | 11 24 | 11 37 | 11 49 | |
| 67 | 11 25 | 11 34 | 11 47 | |
| 66 | 11 24 | 11 33 | 11 45 | |
| 65 | 11 29 | 11 37 | 11 47 | |
| 64 | 11 40 | 11 49 | 11 58 | |
| 63 | 11 44 | 11 53 | 12 2 | |
| 62 | 11 45 | 11 52 | 12 2 | |
| 61 | 11 39 | 11 48 | 11 54 | |
| 60 | 11 34 | 11 40 | 11 46 | |
| 59 | 11 31 | 11 37 | 11 44 | |
| 58 | 11 32 | 11 38 | 11 44 | |
| 57 | 11 26 | 11 35 | 11 40 | |
| 56 | 11 19 | 11 26 | 11 33 | |
| 55 | 11 11 | 11 20 | 11 27 | |
| 54 | 11 14 | 11 20 | 11 25 | |
| 53 | 11 16 | 11 24 | 11 30 | |
| 52 | 11 21 | 11 27 | 11 34 | |
| 51 | 11 17 | 11 25 | 11 34 | |
| 50 | 11 3 | 11 10 | 11 21 | |
| 49 | 10 40 | 10 49 | 10 55 | |
| 48 | 10 13 | 10 24 | 10 40 | |
| 47 | 10 6 | 10 18 | 10 34 | |
| 46 | 10 9 | 10 22 | 10 34 | |
| 45 | 10 9 | 10 23 | 10 33 | |
| 44 | 9 55 | 10 10 | 10 23 | |
| 43 | 9 16 | 9 41 | 9 57 | |
| 42 | 8 12 | 8 42 | 9 10 | |
| 41 | 7 26 | 7 45 | 8 0 | |
| 40 | 6 51 | 7 3 | 7 17 | |
| 39 | " | 6 33 | " | |
| 38 | " | 6 10 | " | |
| 37 | " | 5 50 | " | |
| 36 | " | 5 33 | " | |
| 35 | " | 5 21 | " | |
| 34 | " | 5 7 | " | |
| 33 | " | 4 54 | " | |
| 32 | " | 4 47 | " | |
| 31 | " | 4 35 | " | |
| 30 | " | 4 27 | " | |
| 29 | " | 4 19 | " | |
| 28 | " | 4 13 | " | |
| 27 | " | 4 7 | " | |
| 26 | " | 3 58 | " | |
| 25 | " | 3 53 | " | |
| 24 | " | 3 50 | " | |

Suite. Courbe hypothétique.

| DÉGRÉS de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|----------------------------|--|--------------------|-------------------------|------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| E. Paris | | N. | | |
| 23° | " | 3° 47' | " | |
| 22 | " | 3 47 | " | |
| 21 | " | 3 43 | " | |
| 20 | " | 3 40 | " | |
| 19 | " | 3 37 | " | |
| 18 | " | 3 32 | " | |
| 17 | " | 3 25 | " | |
| 16 | " | 3 18 | " | |
| 15 | " | 3 8 | " | |
| 14 | " | 2 55 | " | |
| 13 | " | 2 41 | " | |
| 12 | " | 2 21 | " | |
| 11 | " | 1 56 | " | |

| DÉGRÉS de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|----------------------------|--|--------------------|-------------------------|------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| E. Paris | | N. | | |
| 10° | " | 1° 22' | " | |
| 9 | " | 0 42 | " | |
| 8 | " | S. | | |
| 7 | " | 0 11 | " | |
| 6 | " | 1 21 | " | |
| 5 | " | 2 43 | " | |
| 4 | " | 4 5 | " | |
| 3 | " | 5 7 | " | |
| 2 | " | 6 6 | " | |
| | | 7 0 | " | |
| | | S. | | |
| 1 | 9 17 | 7 45 | " | |

§ II. — *Observations de 1800, par Alex. de Humboldt.*

(Courbe intermédiaire pour une partie de cette même année.)

| DÉCLINAISON DE L'HORLOGE. | LATITUDE CORRESPONDANTE DES POINTS DE L'ÉQUATEUR MAGNÉTIQUE. | | | REMARQUES. |
|---------------------------------|--|--------------------|-------------------------|------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| | S. | S. | S. | |
| O. Paris 71° | 10° 30' | " | " | |
| 72 | 10 7 | 9° 22' | 8° 52' | |
| 73 | 9 47 | 9 10 | 8 40 | |
| 74 | 9 27 | 8 57 | 8 29 | |
| 75 | 9 8 | 8 41 | 8 15 | |
| 76 | 8 55 | 8 27 | 8 0 | |
| 77 | 8 41 | 8 13 | 7 46 | |
| 78 | 8 32 | 7 57 | 7 25 | |
| 79 | 8 25 | 7 38 | 7 8 | |
| 80 | 8 20 | 7 22 | 6 51 | |
| 81 | 8 21 | 7 11 | 6 40 | |
| 82 | 8 23 | 7 10 | 6 31 | |

§ III.—*Observations de 1818 à 1828, par MM. L. de Freycinet, Duperrey et de Blosseville. (Époque moyenne moderne de 1823.)*

| de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|------------------|--|--------------------|-------------------------|----------------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| 0. Paris | S. | S. | S. | |
| 0° | " | 6° 22' | " | |
| 1 | " | 6 50 | " | |
| 2 | " | 7 15 | " | |
| 3 | " | 7 38 | " | |
| 4 | " | 7 55 | " | |
| 5 | " | 8 10 | " | |
| 6 | " | 8 25 | " | |
| 7 | " | 8 40 | " | |
| 8 | 9° 12' | 8 53 | 7° 55' | Courbe hypothétique. |
| 9 | 9 27 | 9 3 | 8 20 | |
| 10 | 9 37 | 9 13 | 8 36 | |
| 11 | 9 46 | 9 23 | 8 50 | |
| 12 | 9 49 | 9 24 | 8 57 | |
| 13 | 9 47 | 9 20 | 8 54 | |
| 14 | 9 47 | 9 15 | 8 50 | |
| 15 | 9 45 | 9 13 | 8 45 | |
| 16 | 9 48 | 9 14 | 8 43 | |
| 17 | 9 56 | 9 17 | 8 43 | |
| 18 | 10 5 | 9 22 | 8 44 | |
| 19 | 10 17 | 9 29 | 8 50 | |
| 20 | 10 33 | 9 40 | 8 57 | |
| 21 | 10 52 | 9 55 | 9 8 | |
| 22 | 11 10 | 10 17 | 9 23 | |
| 23 | 11 34 | 10 40 | 9 43 | |
| 24 | 11 59 | 11 6 | 10 6 | |
| 25 | 12 23 | 11 42 | 10 38 | |
| 26 | 12 46 | 12 16 | 11 20 | |
| 27 | 13 7 | 12 46 | 12 8 | |
| 28 | 13 27 | 13 16 | 12 52 | |
| 29 | 13 47 | 13 36 | 13 22 | Courbe hypothétique. |
| 30 | " | 13 58 | " | |
| 31 | " | 14 17 | " | |
| 32 | " | 14 34 | " | |
| 33 | " | 14 47 | " | |
| 34 | " | 14 53 | " | |
| 35 | " | 15 0 | " | |
| 36 | " | 15 4 | " | |
| 37 | " | 15 7 | " | |
| 38 | " | 15 8 | " | |
| 39 | " | 15 9 | " | |
| 40 | " | 15 10 | " | |
| 41 | " | 15 10 | " | |
| 42 | " | 15 10 | " | |
| 43 | 15 17 | 15 9 | 15 2 | |
| 44 | 15 20 | 15 12 | 15 3 | |
| 45 | 15 26 | 15 16 | 15 5 | |
| 46 | 15 32 | 15 19 | 15 8 | |
| 47 | 15 37 | 15 27 | 15 17 | Courbe hypothétique. |
| 48 | " | 15 34 | " | |
| 49 | " | 15 39 | " | |
| 50 | " | 15 40 | " | |
| 51 | " | 15 38 | " | |
| 52 | " | 15 35 | " | |
| 53 | " | 15 30 | " | |
| 54 | " | 15 24 | " | |
| 55 | " | 15 19 | " | |
| 56 | " | 15 14 | " | |
| 57 | " | 15 7 | " | |
| 58 | " | 14 56 | " | |

| de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|------------------|--|--------------------|-------------------------|------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| O. Paris | S. | S. | S. | |
| 59° | " | 14° 50' | " | |
| 60 | " | 14 41 | " | |
| 61 | " | 14 29 | " | |
| 62 | " | 14 14 | " | |
| 63 | " | 13 57 | " | |
| 64 | " | 13 42 | " | |
| 65 | " | 13 45 | " | |
| 66 | " | 13 8 | " | |
| 67 | " | 12 47 | " | |
| 68 | " | 12 24 | " | |
| 69 | " | 12 7 | " | |
| 70 | " | 11 47 | " | |
| 71 | " | 11 27 | " | |
| 72 | " | 11 6 | " | |
| 73 | " | 10 46 | " | |
| 74 | " | 10 28 | " | |
| 75 | 10° 33' | 10 8 | 9° 53' | |
| 76 | 10 14 | 9 50 | 9 33 | |
| 77 | 9 54 | 9 26 | 9 2 | |
| 78 | 9 22 | 8 53 | 8 11 | |
| 79 | 9 2 | 8 23 | 7 48 | |
| 80 | 8 45 | 8 12 | 7 45 | |
| 81 | 8 33 | 8 8 | 7 47 | |
| 82 | 8 22 | 7 58 | 7 40 | |
| 83 | 8 5 | 7 40 | 7 23 | |
| 84 | 7 40 | 7 13 | 7 0 | |
| 85 | 6 55 | 6 33 | 6 16 | |
| 86 | " | 5 57 | " | |
| 87 | " | 5 36 | " | |
| 88 | " | 5 19 | " | |
| 89 | " | 5 7 | " | |
| 90 | " | 4 54 | " | |
| 91 | " | 4 44 | " | |
| 92 | " | 4 33 | " | |
| 93 | " | 4 22 | " | |
| 94 | " | 4 12 | " | |
| 95 | " | 4 1 | " | |
| 96 | " | 3 55 | " | |
| 97 | " | 3 47 | " | |
| 98 | " | 3 38 | " | |
| 99 | " | 3 30 | " | |
| 100 | " | 3 20 | " | |
| 101 | " | 3 12 | " | |
| 102 | " | 3 4 | " | |
| 103 | " | 2 57 | " | |
| 104 | " | 2 51 | " | |
| 105 | " | 2 44 | " | |
| 106 | " | 2 39 | " | |
| 107 | " | 2 35 | " | |
| 108 | " | 2 31 | " | |
| 109 | " | 2 29 | " | |
| 110 | " | 2 25 | " | |
| 111 | " | 2 23 | " | |
| 112 | " | 2 22 | " | |
| 113 | " | 2 21 | " | |
| 114 | " | 2 20 | " | |
| 115 | " | 2 19 | " | |
| 116 | " | 2 17 | " | |
| 117 | " | 2 17 | " | |

| Degrés de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|----------------------------|--|--------------------|-------------------------|---|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| | | | | |
| O. Paris | | S. | | |
| 118° | " | 2° 16' | " | Suite. Courbe hypothétique. |
| 119 | " | 2 15 | " | |
| 120 | " | 2 15 | " | |
| 121 | " | 2 14 | " | |
| 122 | " | 2 16 | " | |
| 123 | " | 2 17 | " | |
| 124 | " | 2 17 | " | |
| 125 | " | 2 17 | " | |
| 126 | " | 2 17 | " | |
| 127 | " | 2 16 | " | |
| 128 | " | 2 15 | " | |
| 129 | " | 2 15 | " | |
| 130 | " | 2 13 | " | |
| 131 | " | 2 13 | " | |
| 132 | " | 2 15 | " | |
| 133 | " | 2 18 | " | |
| 134 | " | 2 19 | " | |
| 135 | " | 2 20 | " | |
| 136 | " | 2 20 | " | |
| 137 | " | 2 20 | " | |
| 138 | " | 2 20 | " | |
| 139 | " | 2 19 | " | |
| 140 | " | 2 18 | " | |
| 141 | S. | 2 17 | S. | |
| 142 | 2° 30' | 2 17 | 2° 9' | |
| 143 | 2 28 | 2 19 | 2 13 | |
| 144 | 2 33 | 2 22 | 2 10 | |
| 145 | 2 40 | 2 28 | 2 8 | |
| 146 | 2 53 | 2 31 | 2 6 | |
| 147 | 3 3 | 2 32 | 2 0 | |
| 148 | 2 58 | 2 22 | 1 49 | |
| 149 | 2 25 | 1 57 | 1 24 | |
| 150 | 1 47 | 1 23 | 0 59 | |
| 151 | 1 50 | 1 18 | 0 52 | |
| 152 | 2 7 | 1 22 | 0 54 | |
| 153 | 2 46 | 1 35 | 1 1 | |
| 154 | 3 24 | 1 55 | 1 10 | |
| 155 | 3 52 | 2 30 | 1 23 | |
| 156 | 4 0 | 3 0 | 1 40 | |
| 157 | 4 1 | 3 15 | 2 1 | |
| 158 | 3 58 | 3 15 | 2 16 | |
| 159 | 3 53 | 3 4 | 2 14 | |
| 160 | 3 43 | 2 50 | 1 55 | |
| 161 | 3 32 | 2 32 | 1 29 | |
| 162 | 3 16 | 2 8 | 1 8 | |
| 163 | 3 0 | 1 45 | 0 57 | |
| 164 | 2 42 | 1 22 | 0 32 | |
| 165 | 2 15 | 0 58 | 0 29 | |
| 166 | 1 48 | 0 40 | 0 8 | |
| | | | N. | |
| 167 | 1 22 | 0 27 | 0 13 | Longitude des nœuds de l'équateur magnétique dans le Grand-Océan. |
| 168 | 1 1 | 0 15 | 0 24 | |
| 169 | 0 44 | 0 5 | 0 32 | |
| | | N. | | |
| 170 | 0 30 | 0 7 | 0 35 | 1 ^{er} nœud = 160° 33'. Ouest Paris. |
| 171 | 0 20 | 0 11 | 0 38 | |
| 172 | 0 14 | 0 15 | 0 40 | |
| 173 | 0 10 | 0 16 | 0 39 | |
| 174 | 0 10 | 0 16 | 0 36 | |
| 175 | 0 9 | 0 10 | 0 30 | |
| 176 | 0 8 | 0 7 | 0 24 | |
| 177 | 0 9 | 0 2 | 0 17 | |
| | | | | 2 nd nœud = 177° 18'. Ouest Paris. |

| DEGRÉS de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|----------------------------|--|--------------------|-------------------------|------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| | S. | S. | S. | |
| O. Paris. | S. | S. | S. | |
| 178° | 0° 14' | 0° 4' | 0° 8' | |
| 179 | 0 16 | 0 10 | 0 5 | |
| 180 | 0 18 | 0 10 | 0 5 | |
| E. Paris. | | | | |
| 179 | 0 21 | 0 11 | 0 8 | |
| 178 | 0 23 | 0 8 | 0 15 | |
| 177 | 0 23 | 0 5 | 0 24 | |
| | | N. | | |
| 176 | 0 29 | 0 1 | 0 32 | |
| 175 | 0 28 | 0 13 | 0 47 | |
| 174 | 0 22 | 0 22 | 1 4 | |
| 173 | 0 12 | 0 36 | 1 23 | |
| | | N. | | |
| 172 | 0 7 | 0 56 | 1 45 | |
| 171 | 0 27 | 0 27 | 2 12 | |
| 170 | 0 55 | 1 55 | 2 43 | |
| 169 | 1 25 | 2 16 | 3 11 | |
| 168 | 1 54 | 2 35 | 3 32 | |
| 167 | 2 19 | 2 50 | 3 36 | |
| 166 | 2 38 | 3 4 | 3 33 | |
| 165 | 2 50 | 3 10 | 3 25 | |
| 164 | 3 0 | 3 13 | 3 23 | |
| 163 | 3 8 | 3 16 | 3 26 | |
| 162 | 3 12 | 3 20 | 3 32 | |
| 161 | 3 12 | 3 25 | 3 40 | |
| 160 | 3 14 | 3 35 | 3 55 | |
| 159 | 3 22 | 3 47 | 4 10 | |
| 158 | 3 39 | 4 9 | 4 32 | |
| 157 | 4 9 | 4 35 | 5 2 | |
| 156 | 4 37 | 5 2 | 5 28 | |
| 155 | 5 0 | 5 22 | 5 47 | |
| 154 | 5 12 | 5 35 | 6 2 | |
| 153 | 5 16 | 5 46 | 6 11 | |
| 152 | 5 14 | 5 54 | 6 20 | |
| 151 | 5 6 | 5 53 | 6 32 | |
| 150 | 4 49 | 5 40 | 6 40 | |
| 149 | 4 46 | 5 41 | 6 38 | |
| 148 | 4 55 | 5 55 | 6 43 | |
| 147 | 5 32 | 6 24 | 6 59 | |
| 146 | 6 1 | 6 44 | 7 16 | |
| 145 | 6 15 | 6 54 | 7 35 | |
| 144 | 6 16 | 6 49 | 7 41 | |
| 143 | 6 19 | 6 54 | 8 4 | |
| 142 | 6 23 | 7 6 | 8 13 | |
| 141 | 6 33 | 7 18 | 8 11 | |
| 140 | 6 48 | 7 25 | 8 3 | |
| 139 | 6 51 | 7 19 | 7 56 | |
| 138 | 6 37 | 7 13 | 7 48 | |
| 137 | 6 15 | 6 55 | 7 40 | |
| 136 | 6 6 | 6 50 | 7 29 | |
| 135 | 6 7 | 6 49 | 7 18 | |
| 134 | 6 13 | 6 50 | 7 12 | |
| 133 | 6 25 | 6 52 | 7 8 | |
| 132 | 6 39 | 6 56 | 7 10 | |
| 131 | 6 46 | 7 1 | 7 14 | |
| 130 | 6 54 | 7 8 | 7 23 | |
| 129 | 7 0 | 7 18 | 7 35 | |
| 128 | 7 4 | 7 24 | 7 44 | |
| 127 | 7 7 | 7 28 | 7 47 | |
| 126 | 7 7 | 7 28 | 7 47 | |
| 125 | 7 5 | 7 24 | 7 43 | |
| 124 | 7 0 | 7 20 | 7 39 | |

| de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|------------------|--|--------------------|-------------------------|----------------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| | | | | |
| E. Paris | N. | N. | N. | |
| 123° | 6° 58' | 7° 14' | 7° 33' | |
| 122 | 6 46 | 7 5 | 7 23 | |
| 121 | 6 38 | 6 55 | 7 23 | |
| 120 | 0 28 | 6 47 | 7 4 | |
| 119 | 6 19 | 6 40 | 6 58 | |
| 118 | 6 10 | 6 35 | 6 54 | |
| 117 | 6 3 | 6 33 | 6 52 | |
| 116 | 5 57 | 6 29 | 6 51 | |
| 115 | 5 55 | 6 25 | 6 50 | |
| 114 | 5 55 | 6 23 | 6 48 | |
| 113 | 5 58 | 6 25 | 6 49 | |
| 112 | 6 1 | 6 26 | 6 49 | |
| 111 | 6 6 | 6 27 | 6 52 | |
| 110 | 6 12 | 6 34 | 6 59 | |
| 109 | 6 18 | 6 43 | 7 5 | |
| 108 | 6 28 | 6 57 | 7 14 | |
| 107 | 6 39 | 7 10 | 7 23 | |
| 106 | 6 49 | 7 20 | 7 30 | |
| 105 | 6 57 | 7 25 | 7 35 | |
| 104 | 7 4 | 7 30 | " | Courbe hypothétique. |
| 103 | " | 7 32 | " | |
| 102 | " | 7 37 | " | |
| 101 | " | 7 41 | " | |
| 100 | " | 7 46 | " | |
| 99 | " | 7 47 | " | |
| 98 | " | 7 48 | " | |
| 97 | " | 7 51 | " | |
| 96 | " | 7 52 | " | |
| 95 | " | 7 53 | " | |
| 94 | " | 7 55 | " | |
| 93 | " | 7 58 | " | |
| 92 | " | 8 0 | " | |
| 91 | " | 8 3 | " | |
| 90 | " | 8 6 | " | |
| 89 | " | 8 8 | " | |
| 88 | " | 8 13 | " | |
| 87 | " | 8 18 | " | |
| 86 | " | 8 27 | " | |
| 85 | " | 8 39 | " | |
| 84 | " | 8 54 | " | |
| 83 | " | 9 7 | " | |
| 82 | " | 9 23 | " | |
| 81 | " | 9 34 | " | |
| 80 | " | 9 44 | " | |
| 79 | " | 9 53 | " | |
| 78 | " | 10 0 | " | |
| 77 | " | 10 11 | " | |
| 76 | " | 10 8 | " | |
| 75 | " | 10 8 | " | |
| 74 | " | 10 6 | " | |
| 73 | " | 10 3 | " | |
| 72 | " | 10 3 | " | |
| 71 | " | 10 3 | " | |
| 70 | " | 10 9 | " | |
| 69 | " | 10 15 | " | |
| 68 | " | 10 17 | " | |
| 67 | " | 10 18 | " | |
| 66 | " | 10 18 | " | |
| 65 | " | 10 21 | " | |
| 64 | " | 10 24 | " | |
| 63 | " | 10 25 | " | |
| 62 | " | 10 28 | " | |
| 61 | " | 10 27 | " | |

| de longitude. | LATITUDE CORRESPONDANTE DES POINTS de l'équateur magnétique. | | | REMARQUES. |
|------------------|--|--------------------|-------------------------|------------|
| | Courbe extrême S. | Courbe moyenne. | Courbe extrême N. | |
| | | | | |
| E. Paris | N. | N. | N. | |
| 60° | " | 10 27' | " | |
| 59 | " | 10 27 | " | |
| 58 | " | 10 26 | " | |
| 57 | " | 10 25 | " | |
| 56 | " | 10 23 | " | |
| 55 | " | 10 22 | " | |
| 54 | " | 10 23 | " | |
| 53 | " | 10 28 | " | |
| 52 | " | 10 30 | " | |
| 51 | " | 10 26 | " | |
| 40 | " | 10 12 | " | |
| 49 | " | 9 44 | " | |
| 48 | " | 9 18 | " | |
| 47 | " | 9 0 | " | |
| 46 | " | 8 46 | " | |
| 45 | " | 8 34 | " | |
| 44 | " | 3 31 | " | |
| 43 | " | 8 32 | " | |
| 42 | " | 8 35 | " | |
| 41 | " | 8 32 | " | |
| 40 | " | 8 16 | " | |
| 39 | " | 7 47 | " | |
| 38 | " | 7 12 | " | |
| 37 | " | 6 40 | " | |
| 36 | " | 6 20 | " | |
| 35 | " | 6 3 | " | |
| 34 | " | 5 50 | " | |
| 33 | " | 5 38 | " | |
| 32 | " | 5 27 | " | |
| 31 | " | 5 20 | " | |
| 30 | " | 5 10 | " | |
| 29 | " | 5 4 | " | |
| 28 | " | 4 57 | " | |
| 27 | " | 4 52 | " | |
| 26 | " | 4 48 | " | |
| 25 | " | 4 45 | " | |
| 24 | " | 4 39 | " | |
| 23 | " | 4 36 | " | |
| 22 | " | 4 33 | " | |
| 21 | " | 4 33 | " | |
| 20 | " | 4 33 | " | |
| 19 | " | 4 29 | " | |
| 18 | " | 4 22 | " | |
| 17 | " | 4 17 | " | |
| 16 | " | 4 8 | " | |
| 15 | " | 3 56 | " | |
| 14 | " | 3 42 | " | |
| 13 | " | 3 24 | " | |
| 12 | " | 3 2 | " | |
| 11 | " | 2 27 | " | |
| 10 | " | 2 5 | " | |
| 9 | " | 1 28 | " | |
| 8 | " | 0 37 | " | |
| | S. | | | |
| 7 | " | 0 21 | " | |
| 6 | " | 1 21 | " | |
| 5 | " | 2 25 | " | |
| 4 | " | 3 20 | " | |
| 3 | " | 4 15 | " | |
| 2 | " | 5 3 | " | |
| 1 | " | 5 45 | " | |

Le nœud de l'équateur magnétique, dans l'Océan Atlantique, qui appartient à l'époque moyenne de 1835, a été estimé répondre à 7° 20' de longitude orientale.

CHAPITRE X.

VARIATIONS DIURNES EN DÉCLINAISON MAGNÉTIQUE.

| PORT-LOUIS. (ILE-DE-FRANCE.) | | | | | | |
|------------------------------|----------------------|-------------------|---|--|--|--|
| OBSERVATEURS. | DATES. | HEURES. | POINT DE LA MIRE où correspond Faiguille. | | REMARQUES. | VENTS; ÉTAT DU CIEL. |
| | | | En arc. | Anomalies observées. | | |
| Dp. | 1818. Juin. 9. | 7 ^h m. | 5',0 | | <p>La mire, placée perpendiculairement à la direction de la lunette magnétique, répond au zéro de la division. La valeur angulaire des parties de l'échelle a été déterminée avec un théodolite et tracée sur une planche peinte en blanc.</p> <p>M. Duperrey a fait toutes les opérations que nécessitait l'établissement de cette mire.</p> <p>•</p> | <p>S. S. E. petit frais. Très-beau.</p> |
| | | 8 | 5,0 | ..... |  |  |
| | | 9 | 4,0 | ..... |  |  |
| | | 10 | 3,0 | ..... |  |  |
| | | 11 | 3,0 | ..... |  |  |
| | | Midi. | 3,5 | ..... |  |  |
| | | 1 ^h s. | 4,5 | ..... |  |  |
| | | 2 | 5,3 | ..... |  |  |
| | | 3 | 5,3 | ..... |  |  |
| | | 4 | 4,6 | ..... |  |  |
| Fb. | | 5 | 4,0 | | <p>L'instrument a été placé sur une pile en pierre de taille.</p> <p>Le zéro de la mire est exactement le zéro des arcs observés.</p> | <p>L'arc noté ci-contre est à l'Ouest du zéro.</p> |
| | | 6 | 3,0 | ..... |  |  |
| Dp. | | 7 | 2,7 | | <p>Précédemment, à 6^h soir, il y avait de petites oscillations dont on n'a pas tenu compte.</p> <p>Il y a des divisions à l'Ouest et à l'Est du zéro sur l'échelle.</p> | <p>S. S. E. petit frais. Très-beau.</p> |
| | | 8 | 3,2 | A 8 ^h soir Faiguille oscillait de 1' à 5',5 : on a pris la moyenne. | | |
| | | 9 | 4,0 | ..... |  |  |
| | | 10 | 4,0 | ..... |  |  |
| | | 11 | 4,0 | ..... |  |  |
| P. | 10. | Minuit. | 4,0 | | | <p>S. S. E. petit frais. Très-beau.</p> |
| | | 1 ^h m. | 4,5 | ..... |  |  |
| | | 2 | 4,5 | ..... |  |  |
| Fb. | | 3 | 5,0 | | <p>Les oscillations de l'aiguille n'allaient pas à plus d'une minute : on a pris la moyenne.</p> | <p>E. S. E. joli frais. Beau.</p> |
| | | 4 | 4,5 | ..... |  |  |
| Frey. | | 5 | 6,0 | | <p>A 5^h, les oscillations beaucoup plus grandes de l'amplitude vont à 2' à l'Ouest du zéro, jusqu'à 10' du même côté. L'amplitude est donc de 8'.</p> | <p>E. S. E. joli frais. Beau.</p> |
| | | 6 | 7,5 | De 6', à 9' 0. | | |
| | | 7 | 7,0 | ..... |  |  |
| | | 8 | 7,5 | De 1,0 à 14,0. | | |
| | | 9 | 7,5 | ..... |  |  |
| | | 10 | 8,0 | L'aiguille commence à osciller. | | |
| | | 11 | 8,0 | De 4,0 à 12,0. | | |
| | | Midi. | 10,0 | De 4,0 à 18,0..... | | |
| | | 1 ^h s. | 10,7 | De 7,5 à 13,7. | | |
| | | 2 | 10,5 | De 9,0 à 12,0. | | |
| R. | | 3 | 8,7 | De 10,5 à 7,0. | | <p>S. E. joli frais. Beau.</p> |
| | | 4 | 7,7 | De 9,0 à 9,5. | | |
| | | 5 | 5,1 | De 4,5 à 5,7. | | |
| | | 6 | 4,7 | De 4,0 à 5,4..... | | |
| | | 7 | 7,7 | De 6,5 à 9,0. | • | |

PORT-LOUIS. (ILE-DE-FRANCE.)

| OBSERVATEUR. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | REMARQUES. | VENTS; ÉTAT DU CIEL. |
|--------------|--------------------------|-----------------------------|--|----------------------|---|--|
| | | | En arc. | Anomalies observées. | | |
| Lm. | 1818. Suite. Juin. | 8 ^h s. | 6,8 | De 5',7 à 8',0. | La grande amplitude des arcs rend l'obser- vation très-difficile à faire, à cause de l'impos- sibilité d'éclairer convenablement la mire. | E. S. E. joli frais. Beau. |
| | | | 9 | De 4,0 à 6,0. | | |
| | | | 10 | 6,0 | | |
| | | Minuit. | 11 | 5,0 | | |
| | | | 6,7 | De 4,0 à 6,0. | | |
| | | | | De 6,0 à 7,5..... | | |
| R. | 11. | 1 ^h m. | 7,7 | De 7,0 à 8,4. | La grande amplitude des arcs rend l'obser- vation très-difficile à faire, à cause de l'impos- sibilité d'éclairer convenablement la mire. | S. E. petit frais. Très-beau. |
| | | 2 | 6,5 | De 6,0 à 7,0. | | |
| | | 3 | 6,0 | De 5,5 à 6,5. | | |
| | | 4 ¹ ₂ | 9,5 | De 6,0 à 13,0. | | |
| Frey. | | 5 | 10,0 | De 1,5 à 18,5..... | | |
| | | 6 | 8,2 | De 4,5 à 12,0. | | |
| | | 7 | 8,5 | De 6,0 à 11,0. | | |
| | | 8 | 7,7 | De 7,0 à 8,5. | | |
| Lc. | | 9 | 5,7 | | | |
| | | 10 | 4,0 | De 3,8 à 4,2. | | |
| | | 11 | 3,7 | De 1,5 à 6,0. | S. S. E. petit frais. Très-beau temps. | S. S. E. petit frais. Très-beau temps. |
| | | Midi. | 2,2 | De 2,0 à 2,4..... | | |
| | | 1 ^h s. | 4,5 | De 4,3 à 4,7. | | |
| | | 2 | 7,3 | De 7,0 à 7,6. | | |
| | | 3 | " | | | |
| G. | | 4 | 6,9 | De 6,4 à 7,4. | | |
| | | 5 | 8,0 | De 7,5 à 8,5. | | |
| Lc. | | 6 | " | ..... |  |  |
| | | 7 | 10,5 | | | |
| | | 8 | 10,5 | | | |
| | | 9 | 8,6 | De 7,6 à 9,6. | S. S. E. petit frais. Très-beau temps. | S. S. E. petit frais. Très-beau temps. |
| | | 10 | 8,5 | De 7,5 à 9,5. | | |
| | | 11 | 7,5 | De 6,6 à 8,4. | | |
| | | Minuit. | 6,9 | De 5,5 à 8,3. | | |
| G. | 12. | 1 ^h m. | 7,1 | De 5,7 à 8,5. | | |
| | | 2 | 7,5 | De 6,0 à 9,0. | | |
| | | 3 | 9,0 | De 8,0 à 10,0. | | |
| Db. | | 4 | 9,1 | De 8,3 à 10,0. | | |
| | | 5 | 8,2 | De 7,5 à 9,0. | | |
| | | 6 | 7,0 | De 6,5 à 7,6..... | S. E. petit frais. Beau temps. | S. E. petit frais. Beau temps. |
| Dp. | | 7 | 10,0 | | | |
| | | 8 | 8,2 | | | |
| | | 9 | 6,3 | | | |

VOYAGE AUTOUR DU MONDE.

PORT-LOUIS. (ILE-DE-FRANCE.)

| OBSERVATRICE. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHÉRIQUES. | | |
|---------------|---------------------------------|----------------------|--|---|-------------------------------|--------------------|-----------------------------|
| | | | En arc. | Anomalies observées. | Baro- mètre. | Thermo- mètre. | Remarques. |
| Dp. | 1818. Suite. Juin. 12. | 10 ^h 0'm. | 5',0 | | | | |
| | | 11 0 | 4,3 | | | | |
| | | Midi. | 5,0 | De 8' à 2'..... | | | |
| | | 1 0 s. | 5,0 | De 8 à 2. | | | |
| | | 2 0 | " | Oscillations hors des limites de l'échelle. | | | |
| | | 2 30 | 7,5 | | | | |
| | | 3 0 | 8,0 | | | | |
| | | 4 0 | 7,5 | | | | |
| | | 5 0 | 7,0 | | | | |
| | | 6 0 | 8,0 | | | | |
| | | 7 0 | 5,8 | | | | |
| | | 8 0 | 5,5 | | | | |
| | | 9 0 | 6,0 | | | | |
| | | 10 0 | 6,0 | | mm. | | |
| | | 11 0 | 5,6 | | 767,00 | 23 ⁴ ,2 | |
| | | Minuit. | 5,8 | | 766,20 | 23,0 | |
| | | | | | | | S. S. E. petit frais. Beau. |
| B. | 13. | 1 ^h 0 m. | 6,0 | | | | |
| | | 2 0 | 6,0 | | | | |
| | | 3 0 | 6,5 | Très-légers mouvements. | | | |
| | | 4 0 | 6,5 | | | | |
| | | 5 0 | 7,3 | | | | |
| Fb. | | 6 0 | 6,2 | | | | |
| | | 7 0 | 7,0 | De 3' à 11'. | | | |
| | | 8 0 | 8,0 | De 4,5 à 11,5..... | 763,69 | 23,8 | |
| | | 9 0 | 6,2 | De 4 à 8,5. | | | |
| | | 10 0 | 6,2 | De 6 à 6,5..... | 764,06 | 26,4 | |
| | | 11 0 | 5,0 | | | | |
| | | Midi. | 4,5 | | | | |
| | | 1 ^h 0 s. | 5,2 | De 4,5 à 6. | | | |
| | | 2 0 | 5,4 | De 5 à 5,8..... | 762,76 | 27,2 | |
| | | 3 0 | 7,3 | | | | |
| R. | | 4 0 | 7,5 | | | | |
| | | 5 0 | 7,5 | | | | |
| | | 6 0 | 7,5 | | | | |
| | | 7 0 | 7,5 | | | | |
| | | 8 0 | 5,2 | De 4,5 à 5,9..... | 763,19 | 23,3 | |
| | | 9 0 | 5,3 | De 4,3 à 6,3. | | | |
| | | 10 0 | 7,0 | De 6 à 8..... | 764,28 | 23,0 | |
| | | 11 0 | 6,2 | De 6 à 6,5. | | | |
| | | Minuit. | 6,2 | De 6 à 6,5..... | 764,38 | 23,0 | |
| | | | | | | | S. S. E. petit frais. |
| Lm. | 14. | 1 ^h 0 m. | 6,5 | | | | |
| | | 2 0 | 6,2 | De 6 à 6,5..... | 763,75 | 22,3 | |
| | | 3 0 | 6,2 | | | | |
| | | 4 0 | 7,0 | | | | |
| | | 5 0 | 7,3 | | | | |
| P. | | 6 0 | 7,8 | | | | |
| | | 7 0 | 7,8 | | | | |
| | | 8 0 | 8,5 | De 8 à 9..... | 764,28 | 23,3 | |
| | | 9 0 | 8,0 | | | | |
| | | 10 0 | 6,5 | De 6 à 7..... | 764,92 | 26,0 | |
| G. | | 11 0 | 7,0 | De 6,5 à 7,5. | | | |
| | | Midi. | 6,5 | De 6 à 7..... | 764,48 | 27,0 | |
| B. | | | | | | | S. E. bon frais. Nuages. |

PORT-LOUIS. (ILE-DE-FRANCE.)

| OBSERVATION. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHÉRIQUES. | | |
|-----------------------------------|--------|-------------------|--|-------------------------------|-------------------------------|--------------|--|
| | | | En arc. | Anomalies observées. | Baromètre. | Thermomètre. | Remarques. |
| B. Saite. Juin. 14. | 1818. | 1 ^h s. | 5,5 | | | | |
| | | 2 | 6,5 | De 7' à 6'..... | 762,84 | 25,0 | |
| | | 3 | 8,5 | De 8 à 9. | | | |
| | | 4 | 7,0 | De 6 à 8..... | 762,91 | 24,2 | |
| | | 5 | 6,8 | De 6 à 7,6. | | | |
| | | 6 | 7,0 | ..... | 763,14 | 22,3 | |
| | | 7 | 7,0 | | | | S. E. bon frais. Beau. |
| | | 8 | 7,5 | De 7 à 8..... | 763,11 | 22,3 | |
| | | 9 | 7,5 | | | | |
| | | 10 | 7,0 | De 6 à 8..... | 763,31 | 22,2 | |
| | | 11 | 6,5 | | | | |
| | | Minuit. | 7,0 | ..... | 762,96 | 22,1 | |
| B. 15. | 1818. | 1 ^h m. | 7,5 | | | | |
| | | 2 | 7,0 | De 3 à 11..... | 762,62 | 23,0 | |
| | | 3 | 8,0 | De 7 à 9. | | | |
| | | 4 | 8,5 | ..... | 762,52 | 22,0 | |
| | | 5 | 8,0 | De 0 à 16. | | | |
| | | 6 | 7,5 | De 3 à 12..... | 762,29 | 21,7 | |
| | | 7 | 8,0 | De 7 à 9. | | | S. E. grand frais par rafales. Nuages. |
| | | 8 | 8,0 | ..... | 763,31 | 21,2 | |
| | | 9 | 7,5 | | | | |
| | | 10 | 5,0 | ..... | 763,53 | 24,7 | |
| | | 11 | 4,0 | | | | |
| Fb. Midi. 1 ^h s. | 1818. | Midi. | 4,0 | ..... | 762,69 | 24,0 | |
| | | 2 | 4,5 | | | | S. E. grand frais par rafales. Beau. |
| | | 3 | 6,0 | ..... | 762,05 | 23,0 | |
| | | 4 | 7,7 | | | | |
| | | 5 | 9,0 | ..... | 761,68 | 22,0 | |
| | | 6 | 7,8 | | | | |
| | | 7 | 7,6 | ..... | 761,79 | 22,0 | |
| | | 8 | 5,0 | ..... | 762,73 | 21,0 | |
| | | 9 | 6,3 | | | | |
| | | 10 | 6,8 | ..... | 763,42 | 20,8 | |
| | | 11 | 6,0 | | | | |
| | | Minuit. | 7,0 | ..... | 762,99 | 20,2 | |
| Fb. 16. | 1818. | 1 ^h m. | 6,6 | | | | |
| | | 2 | 7,0 | Mouvement presque insensible. | 762,59 | 20,0 | |
| | | 3 | 6,5 | De 3' à 13'. | | | |
| | | 4 | 5,5 | ..... | 761,92 | 20,2 | |
| | | 5 | 6,0 | | | | |
| | | 6 | 7,5 | ..... | 762,24 | 20,0 | |
| | | 7 | 8,6 | De 12,3 à 5,0. | | | S. S. E. grand frais, par rafales. Nuages, petite pluie. |
| | | 8 | 9,0 | De 7,5 à 10,5..... | 762,84 | 21,8 | |
| | | 9 | 8,7 | De 8,0 à 9,5. | | | |
| | | 10 | 7,2 | ..... | 763,03 | 24,0 | |
| | | 11 | 5,2 | | | | |
| | | Midi. | 4,7 | De 4 à 5,5..... | 763,14 | 28,8 | |
| | | 1 ^h s. | 5,0 | | | | S. E. grand frais, par rafales. Nuages. |

VOYAGE AUTOEUR DU MONDE.

BAIE DES CHIENS-MARINS, PRESQUILE PÉRON. (NOUVELLE-HOLLANDE.)

| OBSERVATION | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | | CIRCONSTANCES ATMOSPHÉRIQUES. | | |
|-------------|---------------------------------|-----------------------------------|--|--------------------------|--|-------------------------------|---------|--|
| | | | En arc | | Anomalies observées. | Baro- | Thermo- | Remarques. |
| | | | à l'Est du zéro. | à l'Ouest du zéro. | | | | |
| B. | 1818. Saine. Sept. 23. | Midi. | 0',5 | ..... |  | 768,40 | 17°,6 | Les observations faites à la lunette magnétique et une partie de celles du baromètre, commencées le 23 septembre au soir, avaient été écrites sur une feuille volante qui a été perdue. |
| | | 0 ^h 20' ^s . | 0,0 | 0,0 | | | | Sud, bon frais. Ciel très-beau. |
| | | 1 0 | ..... | 1',0 | | | | |
| | | 2 0 | ..... | 2,0 | | 762,20 | 18,2 | On croit que les grandes oscillations de l'aiguille ont été occasionnées par la présence d'un fanal en fer-blanc introduit mal à propos sous la tente; aussi voit-on que les observations du jour ne participent pas à ces perturbations de la nuit. |
| | | 3 0 | " | " | | | | Sud, bon frais. Très-beau temps. |
| | | 4 0 | 0,0 | 0,0 | | 762,50 | 19,2 | |
| | | " | 5,8 | ..... | Maximum d'écartement de l'aiguille à l'Est. | | | Sud, bon frais. Très-beau temps. |
|  |  | " | ..... | 2,0 | Maximum d'écartement à l'Ouest. | | | |
| | | | | | | | | |
| | | 24. | 8 ^h 0' ^s. | ..... | 0,8 | 764,60 | 18,0 | |
| 25. | 24. | 9 0 | 0,2 | ..... |  |  |  |  |
| | | 10 0 | " | ..... |  | 765,40 | 16,5 | |
| | | 11 0 | " | ..... |  |  |  |  |
| | | Minuit. | 3,5 | ..... |  | 765,80 | 17,6 | Sud, bon frais. Très-beau temps. |
| | | | | | | | | |
| | | 1 ^h 0'm. | ..... | ..... | Très-grandes oscillations. | | | |
| | | 2 0 | 2,5 | ..... | De 0' à 5' à l'Est..... | 766,60 | 21,0 | |
| | | 3 0 | " | ..... | Trop grandes oscillations pour pouvoir observer..... | 765,80 | 21,0 | |
| | | 4 0 | " | ..... |  |  |  |  |
| | | 5 0 | 2,5 | ..... | De 10' à l'O. à 15' à l'E. | | | |
| | | 6 0 | 5,0 | ..... | De 15 à l'E. à 5 à l'O. | 767,10 | 20,3 | S. S. E. petit frais. Très-beau temps. |
| | | 7 0 | 4,0 | ..... | De 13 à l'E. à 5 à l'O. | | | |
| | | 8 0 | 3,0 | ..... |  | 766,00 | 20,0 | |
| | | 9 0 | 5,5 | ..... |  |  |  |  |
| | | 10 0 | 6,8 | ..... |  | 766,40 | 19,0 | |
| | | 11 0 | 4,9 | ..... |  |  |  |  |

COUPANG. (ILE TIMOR.)

| OBSERVATEUR. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHÉRIQUES. | | | | |
|--------------|-------------------------|-------------------|--|----------------------|-------------------------------|--------------------|--|---|--|
| | | | En arc. | Anomalies observées. | Baromètre. | Thermo-mètre. | Remarques. | Vents; état du ciel. | |
| Dp. | 1818. Octobre 12. | 8 ^h m. | 20',2 | | mm. 759,91 | 29 ^d ,8 | Le zéro de la mire était à l'Ouest de l'observateur; les di- visions de l'échelle vont donc de l'Ouest à l'Est, | N. O. joli frais. Orage dans l'E. et l'E. S. E. | |
| P. | | 9 | 20,0 | De 18' à 19' | 759,88 | 21,8 | | | |
| Dp. | | 10 | 18,5 | ..... | 758,69 | 31,2 | | | |
| Dp. | | 11 | 17,0 | ..... | 758,69 | 32,5 | | | |
| Midi. | | 15,0 | ..... | 757,46 | 33,2 | ..... |  |  |  |
| G. | | 1 ^h s. | 14,0 | ..... | ..... | 32,8 | | | |
| G. | | 2 | 13,7 | ..... | 757,46 | 32,7 | | | |
| P. | | 3 | 13,5 | De 11,5 à 15,0. | | | Pendant l'orage, les coups de tonnerre ayant été fréquents, l'aiguille a beaucoup varié. | | |
| G. | | 4 | 15,1 | De 10,3 à 20,0..... | 757,89 | 26,8 | | | |
| P. | | 5 | 15,0 | De 13,0 à 17,0. | 759,00 | 25,8 | | | |
| P. | | 6 | 15,0 | De 13,0 à 17,0..... | 759,00 | 25,8 | | | |
| G. | | 7 | 16,0 | De 14,0 à 18,0. | 759,79 | 25,6 | Presque calme; temps couvert. Petite pluie. | | |
| P. | | 8 | 16,0 | De 14,0 à 18,0..... | 759,79 | 25,6 | | | |
| G. | | 9 | 16,0 | De 14,0 à 18,0. | 760,11 | 25,3 | | | |
| P. | | 10 | 16,1 | De 15,5 à 16,8..... | 760,11 | 25,3 | | | |
| G. | | 11 | 16,5 | De 15,0 à 18,0. | 759,63 | 24,6 | Est, petit frais. Ciel couvert. | | |
| Midi. | | Minuit. | 16,0 | ..... | 759,63 | 24,6 | | | |
| G. | 13. | 1 ^h m. | 16,1 | De 14,3 à 17,8. | 758,99 | 23,7 | N. O. petit frais. Très-beau. | E. S. E. joli frais. Très-beau. | |
| Pb. | | 2 | 16,1 | De 7,0 à 25,3..... | 758,99 | 23,7 | | | |
| Pb. | | 3 | 14,5 | De 10,0 à 19,0. | 758,89 | 23,2 | | | |
| Fb. | | 4 | 15,0 | De 12,0 à 18,0..... | 758,89 | 23,2 | | | |
| Fb. | | 5 | 16,0 | De 15,0 à 17,0. | 759,54 | 23,7 | | | |
| Fb. | | 6 | 17,5 | De 16,0 à 18,5..... | 759,54 | 23,7 | | | |
| Fb. | | 7 | 17,5 | De 16,0 à 19,0. | 760,39 | 27,8 | | | |
| Fb. | | 8 | 20,0 | ..... | 759,85 | 31,3 | | | |
| Fb. | | 9 | 20,0 | ..... | 757,90 | 32,3 | | | |
| Fb. | | 10 | 19,0 | ..... | 757,90 | 32,3 | | | |
| Fb. | | 11 | 18,2 | ..... | 757,63 | 30,2 | | | |
| Midi. | 14. | 15,7 | | 659,67 | 34,0 | | Nord, petit frais. Nuageux. | Sud, petit frais. Beau temps. | |
| Fb. | | 1 ^h s. | 14,0 | ..... | 757,90 | 32,3 | | | |
| Fb. | | 2 | 13,4 | ..... | 757,63 | 30,2 | | | |
| Fb. | | 3 | 13,3 | ..... | 757,84 | 28,3 | | | |
| Fb. | | 4 | 14,7 | | 758,75 | 27,3 | On ne sait à quoi attribuer ces oscillations de l'aiguille. | Calme. Très-beau. | |
| Dp. | | 5 | 16,0 | ..... | 759,13 | 26,2 | | | |
| Dp. | | 6 | 15,5 | ..... | 758,67 | 24,6 | | | |
| Dp. | | 7 | 15,0 | De 11,0 à 21,0..... | 758,67 | 24,6 | | | |
| Fb. | | 8 | 14,8 | De 14,3 à 15,3..... | 758,75 | 27,3 | | | |
| Dp. | | 9 | 14,2 | De 13,0 à 17,5. | 758,75 | 27,3 | | | |
| Dp. | | 10 | 15,5 | De 13,0 à 18,0..... | 759,98 | 27,0 | | | |
| Dp. | | 11 | 15,5 | De 11,0 à 21,0..... | 759,98 | 27,0 | | | |
| Midi. | | Minuit. | 15,5 | De 13,0 à 14,0..... | 757,25 | 34,0 | Mouvement de l'aiguille, très- lent. | S. E. bon frais. Très-beau. | |
| Fb. | | 1 ^h m. | 17,0 | | 758,85 | 34,5 | | | |
| Fb. | | 2 | 17,5 | | 758,79 | 23,2 | | | |
| Fb. | | 3 | 18,5 | | 758,69 | 23,0 | | | |
| Dp. | | 4 | 16,3 | | 758,69 | 23,0 | | | |
| Dp. | | 5 | 16,5 | De 14,0 à 19,0. | 759,61 | 22,5 | | | |
| G. | | 6 | 16,1 | De 13,0 à 19,2..... | 759,61 | 22,5 | | | |
| G. | | 7 | 20,2 | De 18,0 à 22,5. | 759,98 | 27,0 | | | |
| G. | | 8 | 20,0 | De 19,0 à 21,0..... | 759,98 | 27,0 | | | |
| G. | | 9 | 19,0 | | 759,83 | 31,0 | | | |
| G. | | 10 | 18,5 | | 759,83 | 31,0 | | | |
| G. | | 11 | 17,5 | | 758,85 | 34,5 | | | |
| Midi. | | 15,0 | | 758,85 | 34,5 | | | | |
| Midi. | | 1 ^h s. | 13,3 | De 13,0 à 14,0..... | 757,25 | 34,0 | | | |
| Midi. | | 2 | 13,5 | De 13,0 à 14,0..... | 757,25 | 34,0 | | | |
| Midi. | | 3 | 13,5 | De 13,0 à 14,0. | 757,25 | 34,0 | | | |

VOYAGE AUTOUR DU MONDE.

| COUPANG. (ILE TIMOR.) | | | | | | | | |
|-----------------------|-----------------------------------|-------------------|--|----------------------|-------------------------------|--------------------|--|-----------------------------------|
| OBSERVATION. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHÉRIQUES. | | | |
| | | | En arc. | Anomalies observées. | Baromètre. | Thermomètre. | Remarques. | Vents; état du ciel. |
| Dp. | 1818. Suite. Octobre 14. | 4 ^h 8. | 14',0 | ..... | 756,79 | 31 ⁴ ,7 | | |
| | | 5 | 15,0 | ..... | 757,34 | 30,0 | ..... | E. S. E. petit frais. Nuageux. |
| | | 6 | 15,0 | De 14',0 à 16',0. | 758,90 | 28,0 | | |
| | | 7 | 15,0 | De 15,0 à 17,0. | 759,22 | 27,0 | | |
| | | 8 | 16,0 | De 15,0 à 17,5.... | 759,49 | 25,5 | ..... | E. S. E. petit frais. Beau. |
| | | 9 | 16,0 | De 12,0 à 21,0. | | | | |
| | | 10 | 16,2 | De 14,0 à 19,0.... | | | | |
| | | 11 | 16,5 | De 14,0 à 19,0.... | | | | |
| | | Minuit. | 16,5 | De 14,0 à 19,0.... | | | | |
| | | | | | | | | |
| G. | 15. | 1 ^h m. | 16,5 | De 16,0 à 17,0. | | | | |
| | | 2 | 17,0 | De 16,0 à 18,0.... | 758,86 | 24,8 | | |
| | | 3 | 16,5 | De 14,0 à 19,0. | | | | |
| | | 4 | 16,0 | De 14,0 à 18,0.... | 757,43 | 24,3 | | |
| | | 5 | 16,0 | De 14,0 à 18,0. | | | | |
| | | 6 | 16,7 | De 15,0 à 18,5.... | 758,86 | 25,0 | ..... | E. S. E. petit frais. Très-beau. |
| | | 7 | 18,5 | De 17,0 à 20,0. | | | | |
| B. | | 8 | 20,3 | De 20,1 à 20,5.... | 759,53 | 30,4 | | |
| | | 9 | 20,4 | De 20,6 à 30,3. | | | | |
| | | 10 | 18,9 | De 18,8 à 19,1.... | 759,12 | 31,8 | | |
| | | 11 | 17,5 | De 17,0 à 18,0. | | | | |
| | | Midi. | 15,8 | ..... | 758,06 | 33,0 | ..... | E. S. E. bon frais. Très-beau. |
| | | 1 ^h s. | 13,2 | ..... |  |  |  |  |
| | | 2 | 13,1 | ..... | 756,03 | 34,4 | | |
| Lc. | | 3 | 12,8 | ..... |  |  |  |  |
| | | 4 | 13,6 | De 13,2 à 13,8.... | 756,24 | 32,6 | | |
| | | 5 | 14,3 | De 13,8 à 14,8. | | | | |
| | | 6 | 14,3 | De 13,8 à 14,8.... | 757,36 | 30,0 | ..... | S. E. joli frais. Couvert. |
| | | 7 | 15,5 | De 14,3 à 16,8. | | | | |
| | | 8 | 15,8 | De 14,0 à 17,7.... | 758,32 | 28,4 | | |
| | | 9 | 16,4 | De 7,8 à 25,0. | | | | |
| | | 10 | 15,4 | De 12,0 à 18,9.... | 758,70 | 27,2 | | |
| | | 11 | 17,3 | De 17,9 à 15,7. | | | | |
| | | Minuit. | 16,8 | De 15,9 à 17,7.... | 758,34 | 26,0 | ..... | Est. petit frais. Beau temps. |
| B. | 16. | 1 ^h m. | 15,5 | De 14,0 à 19,0. | | | | |
| | | 2 | 16,3 | De 15,5 à 17,0.... | 757,13 | 25,2 | | |
| | | 3 | 16,1 | De 14,8 à 17,5.... | ..... |  | Mouvement de l'aiguille très-régulier. | |
| | | 4 | 15,7 | De 13,8 à 17,6.... | 757,34 | 24,5 | | |
| | | 5 | 16,0 | De 14,6 à 17,5. | | | | |
| | | 6 | 16,8 | De 15,6 à 18,0.... | 757,83 | 24,1 | ..... | S. S. E. petit frais. Beau temps. |
| | | 7 | 19,2 | De 16,5 à 22,0.... | | | | |
| | | 8 | 20,5 | ..... | 758,19 | 29,3 | | |

ILE RAWAK.

| OBSERVATEUR. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHÉRIQUES. | | | |
|--------------|-------------------|-------------------|--|-----------------------|-------------------------------|------------|--|-------------------------------------|
| | | | En arc. | Anomalies observées. | Thermo-mètre. | Baromètre. | Remarques. | Vents; état du ciel. |
| G. | Suite. 1818. | 6 ^h s. | 17',6 | ..... | 27 ^d ,5 | 755,57 | | |
| F. | Déc. 26. | 7 | 17,5 | ..... | 26,0 | 756,21 | Le zéro de la mire est à l'Est de l'échelle; ses divisions vont donc de l'Est à l'Ouest. | |
| | | 8 | 20,0 | ..... | 26,0 | 756,87 | | |
| | | 9 | 22,5 | ..... | 26,0 | 757,57 | | |
| | | 10 | 21,0 | ..... | 26,0 | 757,61 | | |
| | | 11 | 18,5 | ..... |  |  |  |  |
| | | Minuit. | 17,0 | De 15',0 à 19',0..... | 25,1 | 758,04 | | Calme. Beau temps. |
| G. | 27. | 1 ^h m. | 16,2 | De 15,4 à 17,5. | | | | |
| Fr. | | 2 | 16,0 | ..... | 25,6 | 757,17 | | |
| | | 3 | 16,1 | De 16,0 à 16,3. | | | | |
| | | 4 | 16,5 | De 16,0 à 17,0. | 25,0 | 757,44 | | |
| Fb. | | 5 | 16,2 | De 16,0 à 16,4. | | | | |
| | | 6 | 15,5 | ..... | 25,0 | 758,45 | | |
| | | 7 | 15,0 | ..... |  |  |  |  |
| | | 8 | 16,0 | ..... | 26,0 | 758,24 | | |
| | | 9 | 17,1 | ..... |  |  |  |  |
| P. | | 10 | 16,9 | ..... | 27,5 | 759,07 | | |
| | | 11 | 16,9 | ..... |  |  |  |  |
| | Midi. | 17,0 | ..... |  | 28,0 | 758,55 | | |
| | 1 ^h s. | 17,3 | ..... |  |  |  |  |  |
| | | 2 | 17,8 | ..... | 30,1 | 756,69 | | |
| | | 3 | 17,8 | ..... |  |  |  |  |
| | | 4 | 18,0 | ..... | 28,1 | 756,07 | | |
| | | 5 | 17,8 | ..... |  |  |  |  |
| B. | | 6 | 17,7 | ..... | 27,0 | 757,15 | | |
| | | 7 | 17,0 | De 16,6 à 17,5. | 26,0 | 257,71 | Mouvements de la lunette magnétique très-lents. | N. O. petit frais. Beau temps. |
| | | 8 | 17,4 | De 16,8 à 18,0. | 26,1 | 257,82 | | |
| | | 9 | 17,4 | De 17,0 à 17,8. | 25,5 | 757,81 | | |
| | | 10 | 17,0 | ..... | 25,0 | 757,80 | | |
| | | 11 | 17,0 | De 16',0 à 18',0. | | | | |
| | Minuit. | 16,8 | ..... |  | 24,5 | 757,47 | | Presque calme. Ciel nuageux. |
| Fb. | 28. | 1 ^h m. | 16,9 | ..... |  |  |  |  |
| P. | | 2 | 17,3 | ..... | 24,2 | 757,63 | | |
| | | 3 | 17,0 | ..... |  |  |  |  |
| | | 4 | 16,6 | ..... | 24,0 | 756,15 | | |
| | | 5 | 16,3 | ..... |  |  |  |  |
| | | 6 | 15,3 | ..... | 24,0 | 757,59 | | |
| B. | | 7 | 14,9 | ..... |  |  |  |  |
| | | 8 | 15,9 | De 15,7 à 16,2. | 25,2 | 758,07 | | |
| | | 9 | 16,3 | De 16,0 à 16,6. | | | | O. N. O. joli frais. Ciel nuageux. |
| | | 10 | 16,9 | ..... | 26,3 | 758,27 | | |
| | | 11 | 17,0 | ..... |  |  |  |  |
| Db. | | Midi. | 18,0 | ..... | 26,4 | 757,29 | | |
| | 1 ^h s. | 18,6 | ..... |  |  |  |  | O. S. O. petit frais. Ciel nuageux. |
| | | 2 | 19,2 | De 19,0 à 19,4. | 27,0 | 756,25 | | |
| | | 3 | 19,0 | ..... |  |  |  |  |
| | | 4 | 18,2 | ..... | 26,7 | 755,38 | | |
| | | 5 | 17,7 | ..... |  |  |  |  |
| | | 6 | 17,5 | ..... | 26,1 | 756,39 | | |
| | | 7 | 17,3 | ..... |  |  |  |  |
| R. | | 8 | 17,0 | ..... | 25,3 | 756,26 | | Est., petit frais. Ciel nuageux. |

VOYAGE AUTOUR DU MONDE.

ILE RAWAK.

| OBSERVATION. | DATES. | HEURES. | POINT DE LA STERE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHERIQUES. | | | |
|-----------------------------|--------------|-------------------|---|-----------------------|-------------------------------|-----------------|---------------------------------|--|
| | | | En arc. | Anomalies observées. | Thermo- mètre. | Baro- mètre. | Remarques. | |
| R. Saïte. Déc. 28. | 1818. 29. | 9 ^h s. | 17',0 | | | | | |
| | | 10 | 17,0 | ..... | 25°,0 | 756,49 | mm. | |
| | | 11 | 17,0 | | | | | |
| | | Minuit. | 16,7 | ..... | 25,0 | 756,64 | ..... |  |
| B. | | 1 ^h m. | 17,0 | | | | | |
| | | 2 | 17,0 | ..... | 25,0 | 755,92 | | |
| | | 3 | 17,0 | | | | | |
| | | 4 | 17,0 | ..... | 24,8 | 755,95 | | |
| | | 5 | 16,7 | | | | | |
| R. | | 6 | 15,5 | ..... | 24,4 | 756,03 | ..... |  |
| | | 7 | 16,0 | | | | Sud, petit frais. Beau temps. | |
| Db. | | 8 | 15,7 | ..... | 26,6 | 756,64 | | |
| | | 9 | 15,9 | | | | | |
| R. | | 10 | 16,0 | ..... | 28,8 | 756,62 | | |
| | | 11 | 17,0 | | | | | |
| | | Midi. | 17,6 | ..... | 29,0 | 755,86 | ..... |  |
| | | 1 ^h s. | 17,6 | | | | Sud, joli frais. Beau temps. | |
| Fr. | | 2 | 18,0 | ..... | 31,1 | 754,82 | | |
| | | 3 | 18,0 | | | | | |
| | | 4 | 17,8 | ..... | 29,8 | 754,69 | | |
| G. | | 5 | 18,3 | | | | | |
| | | 6 | 17,8 | ..... | 29,3 | 755,63 | ..... |  |
| | | 7 | 17,8 | | | | S. O. joli frais. Ciel nuageux. | |
| G. | | 8 | 17,4 | De 17',0 à 17',8..... | 26,3 | 756,54 | | |
| | | 9 | 17,3 | De 17,0 à 17,6. | | | | |
| | | 10 | 17,3 | De 17,0 à 17,7..... | 24,9 | 756,66 | | |
| | | 11 | 17,3 | De 17,0 à 17,6. | | | | |
| | | Minuit. | 17,3 | De 17,0 à 17,6..... | 25,0 | 756,91 | ..... |  |
| | | | | | | | Sud, petit frais. Beau temps. | |
| R. | 30. | 1 ^h m. | 17,2 | | | | | |
| | | 2 | 17,4 | ..... | 25,0 | 756,31 | | |
| | | 3 | 16,9 | De 16,9 à 17,3..... | | | | |
| Fr. | | 4 | 16,2 | ..... | 25,0 | " | | |
| | | 5 | 16,5 | | " | | | |
| G. | | 6 | 16,4 | ..... | 24,8 | " | | |
| | | 7 | 15,8 | | " | | | |
| | | 8 | 16,2 | | " | " | | |
| | | 9 | 16,5 | | " | " | | |
| | | 10 | 16,9 | De 16,5 à 19,3. | " | " | | |

Calme. Ciel nuageux.

N. B. La lanette magnétique est établie sur une pile en pierres de taille, apportée de France pour cet objet; une grande enceinte empêche que tout autre que l'observateur de service ne puisse approcher de l'instrument.

On a établi une plate-forme en bois autour de cette pile, qui, ne touchant le sol qu'à une bonne distance, ne repos pas, quand on marche, le moindre débrayement.

Cette installation a surtout été employée à l'île Rawak et à Rio de Janeiro (2^e relâche), où la mobilité du sol la rendait nécessaire.

AGANA, ILE GUAM (ARCHIPEL DES MARIANNES).

| OBSERVATEUR. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHÉRIQUES. | | |
|--------------|---------------|-------------------|--|----------------------|-------------------------------|-------------------|--|
| | | | En arc. | Anomalies observées. | Berno- mètre. | Thermo- mètre. | Remarques. |
| | 1819. Mai. | | | | | | |
| Lm. | 7. | 1 ^h s. | 17',6 | ..... | mm. | | |
| | | 2 | " | 757,53 | 31 ⁴ ,1 | | Est. petit frais. Temps nuageux. |
| | | 3 | " | | | | |
| | | 4 | " | De 14',4 à 19',4. | 757,48 | 30,5 | |
| | | 5 | " | | | | |
| P. | | 6 | 16,6 | ..... | 757,63 | 28,3 | |
| P. | | 7 | 16,3 | | | | |
| Lm. | | 8 | 16,3 | ..... | 758,90 | 27,2 | |
| | | 9 | 17,0 | | | | |
| P. | | 10 | 16,7 | ..... | 760,40 | 25,3 | |
| P. | | 11 | 16,7 | | | | |
| | | Minuit. | 16,3 | ..... | 759,33 | 26,1 | E. S. E. petit frais. Très-beau temps. |
| | | | | | | | |
| | 8. | 1 ^h m. | 16,3 | | | | |
| | | 2 | 16,3 | ..... | 759,08 | 25,3 | |
| B. | | 3 | 16,3 | | | | |
| | | 4 | 16,3 | ..... | 757,81 | 24,1 | ..... |
| | | 5 | 16,3 | | | | Est. petit frais. Temps couvert, petite pluie. |
| Lm. | | 6 | 15,1 | ..... | 758,75 | 23,7 | |
| | | 7 | 15,1 | | | | |
| P. | | 8 | 15,7 | ..... | 759,34 | 26,7 | |
| P. | | 9 | 14,6 | | | | |
| Lm. | | 10 | 18,2 | ..... | 759,10 | 29,5 | |
| P. | | 11 | 19,2 | | | | |
| | | Midi. | 19,1 | ..... | 758,04 | 31,1 | |
| | | 1 ^h s. | 18,4 | | | | E. S. E. bon frais. Ciel nuageux. |
| Lm. | | 2 | 17,6 | ..... | 757,43 | 31,3 | |
| P. | | 3 | 18,4 | | | | |
| Lm. | | 4 | 16,6 | ..... | 757,28 | 29,8 | |
| P. | | 5 | 16,3 | | | | |
| P. | | 6 | 16,3 | ..... | 757,67 | 28,5 | |
| Lm. | | 7 | 16,3 | | | | E. N. E. bon frais. Temps nuageux. |
| | | 8 | 16,6 | ..... | 759,05 | 25,7 | |
| | | 9 | 16,3 | | | | |
| B. | | 10 | 16,3 | De 14,4 à 18,2. | 758,17 | 25,1 | |
| | | 11 | 16,3 | De 15,7 à 17. | | | |
| B. | | Minuit. | 16,3 | De 15,7 à 17. | 758,09 | 25,0 | Calme. Ciel nuageux. |
| | | | | | | | |
| | 9. | 1 ^h m. | 16,0 | De 15,7 à 16,3. | | | |
| P. | | 2 | 16,1 | ..... | 757,21 | 24,2 | |
| | | 3 | 15,9 | | | | |
| | | 4 | 16,0 | ..... | 756,76 | 25,7 | |
| Lm. | | 5 | 16,1 | | | | |
| | | 6 | 15,4 | ..... | 757,75 | 25,6 | ..... |
| | | 7 | 15,7 | | | | E. N. E. très-petite brise. Ciel nuageux. |
| P. | | 8 | 16,1 | ..... | 758,11 | 28,6 | |
| Lm. | | 9 | 16,7 | | | | |
| P. | | 10 | 17,2 | ..... | 758,19 | 30,8 | |
| Lm. | | 11 | 17,6 | | | | |
| | | Midi. | 17,6 | ..... | 757,71 | 31,0 | |
| | | 1 ^h s. | 17,4 | | | | E. N. E. petit frais. Ciel nuageux. |
| | | 2 | 17,1 | ..... | 756,62 | 31,0 | |
| Lm. | | 3 | 16,7 | | | | |
| | | 4 | 16,3 | ..... | 756,25 | 30,5 | |
| P. | | 5 | 15,2 | | | | |
| P. | | 6 | 17,0 | ..... | 756,88 | 28,5 | |
| Lm. | | 7 | 17,0 | | | | E. N. E. petit frais. Ciel nuageux, grain, petite pluie. |

VOYAGE AUTOUR DU MONDE.

AGAGNA, ILE GUAM (ARCHIPEL DES MARIANNE).

| OBSERVATION. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHERIQUES. | | |
|--------------|---------------------|-------------------|--|----------------------|-------------------------------|--------------------|---|
| | | | En arc. | Anomalies observées. | Baromètre. | Thermomètre. | Remarques. |
| Lm. | 1819. Mai. 9. | 8 ^h s. | 16',7 | ..... | 758,27 | 26 ⁴ ,8 | |
| | | 9 | 17,0 | | | | |
| | | 10 | 16,7 | ..... | 758,72 | 26,3 | |
| | | 11 | 16,3 | | | | |
| | | Minuit. | 16,3 | ..... | 758,21 | 26,5 | |
| | | | | | | | E. N. E. petit frais. Temps nuageux, grain, petite pluie. |
| | | | | | | | |
| | | 10. | 1 ^h m. | 15,0 | | | |
| | | | 2 | 15,8 | 757,57 | 25,5 | |
| | | | 3 | 15,7 | | | |
| B. | Lm. | | 4 | 15,7 | 757,17 | 25,2 | |
| | | | 5 | 16,0 | | | |
| | | | 6 | 16,3 | 757,82 | 25,2 | |
| | | | 7 | 17,0 | | | E. N. E. joli frais. Nuages sur terre. |
| | | | 8 | 17,0 | 758,62 | 26,8 | |
| | | | 9 | 17,6 | | | |
| | | | 10 | 17,6 | 758,79 | 27,4 | |
| | | | 11 | 17,2 | | | |
| | | | Midi. | 17,6 | 758,46 | 27,8 | |
| | | | 1 ^h s. | 17,6 | | | N. E. petit frais. Temps nuageux. |
| P. | Lm. | | 2 | 17,0 | 757,61 | 26,8 | |
| | | | 3 | 16,3 | | | |
| | | | 4 | 15,7 | 757,52 | 26,8 | |
| | | | 5 | 15,8 | | | |
| | | | 6 | 15,9 | 758,15 | 27,3 | |
| | | | 7 | 16,2 | | | Calme. Temps très couvert, grain, pluie. |
| | | | 8 | 16,3 | 758,71 | 25,8 | |
| | | | 9 | 16,3 | | | |
| | | | 10 | 16,3 | 758,61 | 25,8 | |
| | | | 11 | 16,3 | | | |
| B. | Lm. | | Minuit. | 16,3 | 758,87 | 25,6 | |
| | | | | | | | Sud, petit frais. Ciel très couvert, grain, pluie. |
| | | | | | | | |
| | | | 11. | 1 ^h m. | | | |
| | | | | 16,2 | | | |
| | | | | 16,1 | 758,31 | 25,2 | |
| | | | | 16,1 | | | |
| | | | | 15,9 | 758,00 | 25,9 | |
| | | | | 15,8 | | | |
| | | | | 15,9 | 758,61 | 25,4 | |
| P. | Lm. | | | 16,4 | | | |
| | | | | 17,0 | | | N. E. petit frais. Temps couvert, pluie. |
| | | | | 17,2 | 759,51 | 27,0 | |
| | | | | 18,2 | 759,66 | 28,8 | |
| | | | | 16,6 | | | |
| | | | Midi. | 18,6 | 759,43 | 27,8 | |
| | | | 1 ^h s. | 18,2 | | | E. S. E. petit frais. Ciel nuageux, grain, pluie. |
| | | | | 17,6 | 758,50 | 27,8 | |
| | | | | 17,0 | | | |
| | | | | 16,3 | 758,40 | 27,7 | |
| P. | Lm. | | | 15,9 | | | |
| | | | | 15,9 | 758,93 | 26,4 | |
| | | | | 16,2 | | | E. N. E. petit frais. Ciel couvert, pluie. |
| | | | | | | | |
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AGAGNA, ILE GUAM (ARCHIPEL DES MARIANNES.)

| OBSERVATION. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | CIRCONSTANCES ATMOSPHERIQUES. | | | |
|------------------------------|----------------------|--|--|--|--|------------|--|
| | | | | Baro- mètre. | Thermo- mètre. | Remarques. | Vents; état du ciel. |
| | | | | | | | |
| Lm. P. | 1819. Mai. 11. | 8 ^h . s. 9 10 11 Minuit. | 16',3 16,3 16,1 16,1 15,8 | 759,37 mm. 759,49 758,92 | 264,2 25,5 25,2 | | |
| | | | | | | | Calme. Ciel couvert, pluie. |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| B. Lm. B. Lm. P. | 12. | 1 ^h m. 2 3 4 5 6 7 8 9 10 11 Midi. 1 ^h s. 2 3 4 5 6 7 8 9 10 11 Minuit. | 15,8 15,9 15,7 15,8 15,7 15,7 15,8 16,1 16,2 17,0 17,5 17,2 17,1 17,0 17,0 16,3 15,8 15,6 15,7 15,8 15,9 15,7 15,7 De 15' à 16',3 | 758,41 758,66 759,21 759,91 759,80 758,98 758,32 757,96 758,72 759,67 759,72 759,33 | 24,6 24,2 24,2 27,3 29,5 31,0 29,8 29,0 27,7 26,2 25,7 24,8 | | |
| | | | | | | | Calme. Ciel assez beau. |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | Est, petit frais. Ciel assez beau. |
| Lm. P. | 13. | 1 ^h m. 2 3 4 5 6 7 8 9 10 11 Midi. 1 ^h s. 2 3 4 5 6 7 8 9 10 11 Minuit. | 15,7 15,9 15,6 15,6 15,6 15,4 15,4 16,2 15,9 16,6 17,0 16,4 16,4 16,3 16,3 15,8 15,4 15,4 | 758,72 758,30 758,96 758,82 758,83 758,44 757,94 757,65 758,78 | 24,9 25,2 24,8 27,5 29,3 30,8 30,4 28,8 27,8 | | |
| | | | | | | | E. N. E. petit frais. Ciel couvert, grain, petite pluie. |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | Est, petit frais. Ciel nuageux. |
| Lm. | | | | | | | Est, petit frais. Ciel nuageux. |

RAHEINA, ILE MOUL (ARCHIPEL DES SANDWICH.)

| OBSERVATION. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHÉRIQUES. | | | Vents; état du ciel. | |
|-----------------------|--------|-------------------|--|--------------------------|-------------------------------|--------------------|---|---|--|
| | | | En arc. | Anomalies observées. | Baromètre. | Thermo-mètre. | Remarques. | | |
| | | | | | | | | | |
| 1819. Août. 19. | 19. | 8 ^h s. | 18',8 | L'aiguille oscille. | | | | S. O. petit frais par rafales. Horizon nuageux. | |
| | | 9 | 18,0 | De 11',5 à 26',1..... | 759,2 | 25 ^d ,6 | | | |
| | | 10 | 18,0 | De 15',5 à 20',5. | | | | | |
| | | 11 | 18,0 | De 17',5 à 18',5..... | 752,2 | 25,6 | | | |
| | | Minuit. | 17,8 | De 12',5 à 23',5. | | | | | |
| | | | | De 17,0 à 18,5..... | 760,3 | 25,0 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 20. | 20. | 1 ^h m. | 18,0 | | | | | N. E. petit frais. Beau temps. | |
| | | 2 | 16,3 | ..... | 760,4 | 24,5 | | | |
| | | 3 | " | ..... | 760,9 | 22,8 | Mouvement trop grand pour pouvoir observer. | | |
| | | 4 | " | ..... |  |  |  |  |  |
| | | 5 | " | ..... |  |  |  |  |  |
| | | 6 | 13,3 | De 11,0 à 15,6..... | 761,1 | 23,0 | | | |
| | | 7 | 12,8 | De 7,8 à 17,7. | | | | | |
| | | 8 | 14,8 | ..... | 761,6 | 26,6 | | | |
| | | 9 | 17,0 | De 7,0 à 28,0. | | | | | |
| | | 10 | 20,0 | De 16,0 à 24,0..... | 760,3 | 27,8 | | | |
| | | 11 | 25,0 | | | | | | |
| | | Midi. | 25,4 | ..... | 760,0 | 29,0 | | | |
| | | 1 ^h s. | 21,8 | ..... |  |  |  |  |  |
| | | 2 | 19,0 | ..... | 760,1 | 28,7 | | | |
| | | 3 | 17,9 | ..... |  |  |  |  |  |
| | | 4 | 18,5 | ..... | 761,0 | 28,7 | | | |
| | | 5 | 17,0 | ..... |  |  |  |  |  |
| | | 6 | 18,0 | ..... | 761,4 | 29,0 | | | |
| | | 7 | 17,5 | ..... |  |  |  |  |  |
| | | 8 | 17,0 | De 15,0 à 19,0..... | 760,4 | 24,0 | | | |
| | | 9 | 17,4 | De 14,4 à 20,5. | | | | | |
| | | 10 | 16,4 | De 12,0 à 24,8..... | 761,3 | 24,0 | | | |
| | | 11 | 18,5 | De 13,5 à 23,6. | | | | | |
| | | Minuit. | 18,0 | De 14,0 à 22,0..... | 761,4 | 23,7 | | | |
| 21. | 21. | 1 ^h m. | 18,2 | De 13,0 à 23,5. | | | | Presque calme. Ciel nuageux sur les montagnes. | |
| | | 2 | 17,8 | De 14,6 à 21,0..... | 760,4 | 23,8 | | | |
| | | 3 | 16,5 | De 12,0 à 21,0. | | | | | |
| | | 4 | 17,5 | De 7,5 à 27,0..... | 760,4 | 23,8 | | | |
| | | 5 | 16,7 | De 14,4 à 19,0. | | | | | |
| | | 6 | " | Grandes oscillations.... | 760,3 | 24,0 | L'aiguille oscille hors des limites de l'échelle. | | |
| | | 7 | 12,5 | De 8,0 à 17,0. | | | | | |
| | | 8 | 14,2 | De 14,0 à 14,5..... | 760,3 | 26,0 | | | |
| | | 9 | 16,8 | | | | | | |
| | | 10 | 19,2 | ..... | 759,2 | 27,8 | | | |
| | | 11 | 20,0 | | | | | | |
| | | Midi. | 21,5 | ..... | 760,3 | 28,4 | | | |
| | | 1 ^h s. | 24,5 | De 0,0 à 49,0. | | | | | |
| | | 2 | 20,0 | De 4,0 à 30,0..... | 759,5 | 28,0 | | | |
| | | 3 | 18,5 | De 8,0 à 29,0. | | | | | |
| | | 4 | 18,5 | De 14,0 à 23,0..... | 760,3 | 27,0 | | | |
| | | 5 | 18,2 | De 16,0 à 20,5. | | | | | |
| | | 6 | 18,2 | De 17,0 à 19,5..... | 760,3 | 27,0 | | | |
| | | 7 | 22,0 | | | | | | |
| | | 8 | 18,5 | ..... | 760,2 | 24,8 | | | |
| | | 9 | 18,5 | | | | | | |

RAHEINA, ILE MOWI (ARCHIPEL DES SANDWICH).

| OBSERVATEUR. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHERIQUES. | | |
|--------------|-----------------------|--------------------|--|----------------------|--|--------------------------------------|--|
| | | | En arc. | Anomalies observées. | Bâromètre marin au mouillage. | Thermo- mètre au mouillage. | Remarques. |
| | 1819. Août. 21. | 10 ^h s. | 15',0 | ..... | 761',5 | 24 ^d ,8 | |
| | | 11 | 15,0 | | | | |
| | | Minuit. | 14,0 | ..... | 761,4 | 24,0 | Calme. Beau temps. |
| | 22. | 1 ^h m. | 16,7 | De 20',5 à 13',0. | | | |
| | | 2 | 16,7 | De 15,0 à 18,5..... | 760,3 | 22,0 | |
| | | 3 | 16,5 | De 12,0 à 21,0. | | | |
| | | 4 | 15,2 | De 13,0 à 17,5..... | 760,3 | 23,5 | |
| | | 5 | 15,0 | De 15,0 à 25,0. | | | |
| | | 6 | 13,2 | De 0,5 à 26,0..... | 758,4 | 23,0 | Nord, petit frais. Temps nuageux. |
| | | 7 | 12,5 | De 10,0 à 15,0. | | | |
| | | 8 | 11,5 | De 10,0 à 13,0..... | 758,6 | 26,0 | |
| | | 9 | 14,0 | De 15,0 à 13,0. | | | |
| | | 10 | 21,0 | De 16,0 à 26,0..... | 760,0 | 30,4 | |
| | | 11 | 20,5 | De 18,0 à 23,0. | | | |
| | | Midi. | 22,0 | De 21,0 à 23,0..... | 759,3 | 29,2 | S. S. O. petit frais. Temps nuageux. |
| | | 1 ^h s. | " | | | | |
| | | 2 | 17,0 | De 14,5 à 19,5..... | 759,4 | 29,0 | |
| | | 3 | 17,5 | De 16,0 à 19,0. | | | |
| | | 4 | 17,5 | De 15,0 à 20,0..... | 759,3 | 27,6 | |

SYDNEY, PORT-JACKSON. (NOUVELLE-HOLLANDE.)

| OBSERVATEUR. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHÉRIQUES. | | |
|--------------|---------------------------|--|--|--|---|---|---|
| | | | En arc. | Anomalies observées. | Baro-mètre. | Thermo-mètre. | Remarques. |
| | | | | | | | |
| Db. | 1819. Nov. 30. | 11 ^h m. Midi. 1 ^h s. | 23',0 | | mm. 764,55 762,60 662,10 761,70 760,75 761,65 761,65 | 21 ^d ,8 21, 20,2 20,0 19,0 19,0 19,7 | NOTA. Le zéro de la mire est à l'Ouest de l'observateur, et la mire au Sud; les divisions de l'échelle sont exactement des minutes. L'aiguille variait lentement de 23' à 27'. |
| | | | 22,3 | | | | |
| | | | 21,0 | | | | |
| | | | 21,0 | | | | |
| | | | 22,0 | | | | |
| | | | 22,5 | | | | |
| | | | 23,0 | | | | |
| | | | 24,0 | | | | |
| | | | 25,7 | | | | |
| | | | 25,0 | | | | |
| Db. | | 10 11 Minuit. | 25,0 | | 761,65 | 19,0 | Calme. Nuages au Nord; beau temps. |
| | | | 25,0 | L'aiguille variait lentement de 23' à 27'. | | | |
| | | | 24,0 | | | | |
| | | | | | | | |
| Fb. | Déc. 1 ^{er} . | 1 ^h m. | 25,5 | | | | |
| | | 2 | 25,0 | | 761,45 | 19,5 | |
| | | 3 | 25,0 | | | | |
| | | 4 | 26,5 | Mouvement très-lent, de 26' à 27'. | 760,50 | 19,2 | |
| | | 5 | 27,0 | <i>Idem.</i> de 25,5 à 27,5. | | | |
| Dp. | | 6 | 28,2 | <i>Idem.</i> de 28' à 28',5..... | 761,35 | 19,0 | Ouest, petit frais. Beau temps. |
| | | 7 | 27,0 | | | | |
| | | 8 | 28,7 | | 761,85 | 21,0 | |
| | | 9 | 29,7 | | | | |
| | | 10 | 24,0 | | 762,80 | 22,5 | |
| | | 11 | 21,5 | | | | |
| | | Midi. | 19,0 | | 762,75 | 23,0 | E. S. E. petit frais. Légers nuages. |
| | | 1 ^h s. | 18,9 | | | | |
| B. | | 2 | 19,0 | | 762,10 | 23,1 | |
| | | 3 | 19,9 | | | | |
| | | 4 | 23,0 | | 762,10 | 22,5 | |
| | | 5 | 23,0 | | | | |
| Db. | | 6 | 23,0 | | 761,45 | 21,5 | E. S. E. petit frais. Beau temps. |
| | | 7 | 25,0 | | | | |
| | | 8 | 24,0 | | 763,00 | 21,0 | |
| | | 9 | 28,0 | | | | |
| B. | | 10 | 25,0 | | 763,75 | 19,0 | Les divisions de l'échelle sont difficiles à distinguer à cause du vent qui fait vaciller la lumière. |
| | | 11 | 24,0 | | | | |
| | | Minuit. | 23,0 | | 763,45 | 19,5 | E. S. E. petit frais. Beau temps. |
| Db. | 2. | 1 ^h m. | 24,0 | | | | |
| | | 2 | 24,0 | | 762,25 | 18,6 | |
| | | 3 | 23,6 | | | | |
| | | 4 | 24,0 | | 762,10 | 17,0 | |
| Dp. | | 5 | 25,0 | | | | |
| | | 6 | 26,0 | | 762,55 | 20,5 | S. O. petit frais. Temps nuageux. |
| | | 7 | 28,0 | | | | |
| | | 8 | 30,0 | | 762,90 | 22,2 | |
| | | 9 | 29,0 | | | | |
| | | 10 | 28,0 | | 762,35 | 22,8 | |
| | | 11 | 26,0 | | | | |
| | | Midi. | 24,0 | | 761,75 | 23,0 | S. E. petit frais. Temps nuageux. |

SYDNEY, PORT-JACKSON. (NOUVELLE-HOLLANDE.)

| OBSERVATION. | DATES. | HEURES. | POINT DE LA MÈRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHÉRIQUES. | | | | |
|--------------|-------------------------|-------------------|--|----------------------|-------------------------------|--------------|------------|---|--|
| | | | En arc. | Anomalies observées. | Baromètre. | Thermomètre. | Remarques. | Vents; état du ciel. | |
| | | | | | | | | | |
| R. | 1819. Suite. Déc. | 1 ^h s. | 25',0 | | mm. | | | | |
| | 2 | 20,0 | ..... | 760,75 | 23 ⁴ ,0 | | | Est, petit frais. Temps nuageux. | |
| | 2. | 19,6 | | | | | | L'aiguille est fine; on ne sait à quelle cause attribuer la différence qui existe dans les deux premières heures de cette page. | |
| Db. | | 4 | 20,0 | ..... | 760,55 | 22,2 | | | |
| | | 5 | 21,0 | | | | | S. E. petit frais. Nuageux. | |
| | 6 | 23,5 | ..... | 761,45 | 21,0 | | | | |
| | 7 | 23,0 | | | | | | | |
| | 8 | 23,5 | ..... | 761,90 | 20,3 | | | | |
| | 9 | 23,0 | | | | | | | |
| R. | | 10 | 23,0 | ..... | 761,85 | 20,2 | | | |
| | | 11 | " | | | | | La pluie et le vent empêchent d'observer la lunette magnétique. Le thermomètre est exposé au vent. | |
| | Minuit. | " | ..... | 761,55 | 17,8 | | | Sud, petit frais. Nuageux, pluie. | |
| Db. | 3. | 1 ^h m. | 23,0 | | mm. | | | | |
| | 2 | 23,0 | ..... | 762,65 | 18,0 | | | S. O. joli frais. Grains, pluie, éclairs. | |
| | 3 | 23,5 | | | | | | | |
| Lm. | | 4 | 24,0 | ..... | 763,00 | 17,0 | | | |
| | | 5 | 25,0 | | | | | S. O. bon frais. Ciel couvert, grains, pluie, éclairs. | |
| | | 6 | 26,0 | ..... | 764,25 | 19,0 | | | |
| | | 7 | 27,0 | | | | | | |
| | | 8 | 28,0 | ..... | 764,90 | 20,0 | | | |
| | | 9 | 29,0 | | | | | | |
| | | 10 | 28,0 | ..... | 765,75 | 19,8 | | | |
| | | 11 | 28,7 | | | | | | |
| G. | Midi. | 28,5 | ..... | 766,05 | 19,0 | | | Sud, bon frais, par rafales. Ciel couvert. | |
| | 1 ^h s. | 19,0 | | | | | | | |
| | 2 | 18,2 | ..... | 765,20 | 19,9 | | | | |
| | 3 | 19,0 | | | | | | | |
| Fr. | | 4 | 20,0 | ..... | 764,65 | 19,6 | | | |
| | | 5 | 21,4 | | | | | | |
| | 6 | 22,0 | ..... | 765,30 | 18,8 | | | | |
| | 7 | 21,0 | | | | | | | |
| | 8 | " | ..... | 766,30 | 19,2 | | | La pluie et le vent ont empêché de faire l'observation de la lunette magnétique, à 8 ^h soir. | |
| G. | | 9 | 20,0 | | | | | | |
| | | 10 | 23,5 | ..... | 766,40 | 19,5 | | | |
| | | 11 | 25,0 | | | | | | |
| | Minuit. | 24,0 | ..... | 765,90 | 16,3 | | | S. S. E. grand frais. Ciel couvert. | |
| Fr. | 4. | 1 ^h m. | 24,0 | | mm. | | | | |
| | 2 | 24,0 | ..... | 765,40 | 16,5 | | | | |
| | 3 | 24,2 | | | | | | | |
| | 4 | 25,5 | ..... | 765,10 | 16,5 | | | | |
| Lm. | | 5 | 25,0 | | | | | | |
| | | 6 | 26,0 | ..... | 765,55 | 16,0 | | | |
| | | 7 | 27,6 | | | | | S. E. petit frais. Ciel nuageux. | |
| | | 8 | 28,0 | ..... | 766,00 | 17,8 | | | |
| | | 9 | 28,7 | | | | | | |
| | | 10 | 27,9 | ..... | 765,25 | 18,5 | | | |
| | | 11 | 26,0 | | | | | | |
| Fb. | Midi. | 27,0 | ..... | 764,50 | 20,2 | | | S. E. petit frais. Quelques nuages. | |
| | 1 ^h s. | 21,2 | | | | | | | |
| | 2 | 20,1 | ..... | 763,45 | 20,9 | | | | |
| | 3 | 20,0 | | | | | | | |

VOYAGE AUTOUR DU MONDE.

SYDNEY, PORT-JACKSON. (NOUVELLE-HOLLANDE.)

| OBSERVATION. | DATES. | HEURES. | POINT DE LA MER où correspond l'aiguille. | CIRCONSTANCES ATMOSPHERIQUES. | | | | | |
|--------------|-------------------------------|---|---|-------------------------------|---|---|--|--|---|
| | | | | En arc. | Anomalies observées. | Baro- | Thermo- | Remarques. | Vents; état du ciel. |
| | | | | | | mètre. | mètre. | | |
| Fb. Fr. | 1819. Suite. Déc. 4. | 4 ^h s. 5 6 7 8 9 10 11 Minuit. | 21',0 22,8 23,0 23,3 23,3 24,0 24,0 24,0 23,6 | | | mm. 763,00 761,45 761,60 761,55 761,05 | 19 ⁴ ,5 18,2 18,0 17,7 18,0 | | N. N. E. petit frais. Beau temps. |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| B. | 5. | 1 ^h m. 2 3 4 5 6 7 8 9 10 11 Midi. 1 ^h s. | 25,0 25,0 25,0 25,0 24,0 25,0 26,0 27,0 28,0 27,9 26,3 23,5 21,0 19,0 19,0 20,5 21,0 21,0 22,4 23,0 23,0 23,0 23,0 Minuit. | | | mm. 760,75 760,00 758,95 759,15 757,95 756,75 754,90 753,45 754,10 755,00 755,10 753,45 | 18,0 17,4 17,0 20,8 24,0 24,0 22,5 23,0 23,7 22,5 19,6 18,3 | | O. S. O. petit frais. Beau temps. Presque calme. Beau temps. Est, joli frais. Beau temps. Est, joli frais. Beau temps. |
| | | | | | | | | | |
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| | | | | | | | | | |
| R. | 6. | 1 ^h m. 2 3 4 5 6 7 8 9 10 11 Midi. 1 ^h s. | 24,0 24,0 23,0 22,5 23,5 26,0 27,0 27,2 27,8 25,5 24,0 22,0 19,5 19,0 19,0 19,5 21,1 22,2 23,0 23,2 23,0 | | mm. 754,05 754,70 757,65 757,20 755,35 757,50 757,95 758,50 | 17,0 17,0 19,8 20,5 21,4 20,6 18,2 17,6 | | S. E. petit frais. Nuageux. S. E. bon frais. Temps couvert. | |
| | | | | | | | | | |
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| | | | | | | | | | |
| Fr. | | | L'aiguille oscillait de 18' à 21'. | | | L'aiguille a été mise en mouvement par une clé que l'observateur avait dans sa poche, par inadvertance. | | S. S. E. petit frais. Temps couvert. | |
| | | | | | | | | | |

SYDNEY, PORT-JACKSON. (NOUVELLE-HOLLANDE.)

| OBSERVATEUR. | DATES. | HEURES. | POINT DE LA MER où correspond l'aiguille. | CIRCONSTANCES ATMOSPHÉRIQUES. | | | |
|--------------|-------------------------------|---------------------|---|-------------------------------|-------------------|--------------------|----------------------|
| | | | | Baro- mètre. | Thermo- mètre. | Remarques. | Vents; état du ciel. |
| | | | En arc. | Anomalies observées. | | | |
| Fr. | 1819. Saité. Déc. 6. | 10 ^h .s. | 23',0 | ..... | 761,60 | 15 ⁴ ,9 | |
| | | 11 | 23,5 | ..... | 762,00 | 16,1 | |
| Lm. | 7. | Minuit. | 24,5 | ..... |  |  |  |
| | | 1 ^h m. | 23,3 | | | | |
| | | 2 | 23,0 | ..... | 762,90 | 15,8 | |
| | | 3 | 23,0 | | | | |
| | | 4 | 23,0 | ..... | 762,80 | 16,0 | |
| | | 5 | 24,0 | | | | |
| | | 6 | 24,0 | ..... | 763,60 | 15,8 | |
| | | 7 | 24,5 | | | | |
| | | 8 | 26,8 | ..... | 765,00 | 17,8 | |
| | | 9 | 26,8 | | | | |
| | | 10 | 27,0 | ..... | 764,95 | 19,4 | |
| | | 11 | 25,0 | | | | |
| G. | Midi. | 23,8 | ..... | 764,55 | 19,4 | | |
| | | 1 ^h s. | 20,0 | | | | |
| | | 2 | 19,0 | ..... | 764,50 | 20,3 | |
| | | 3 | 17,5 | de 17',0 à 18',0. | | | |
| | | 4 | 18,0 | Mouvement très-lent. | 764,10 | 19,8 | |
| | | 5 | 19,0 | | | | |
| | | 6 | 21,0 | ..... | 764,20 | 18,0 | |
| | | 7 | 22,3 | | | | |
| | | 8 | 20,2 | ..... | 764,25 | 17,8 | |
| | | 9 | 20,0 | | | | |
| | | 10 | 20,0 | ..... | 764,75 | 18,8 | |
| | | 11 | 22,5 | | | | |
| Lm. | Minuit. | 23,0 | ..... | 764,70 | 17,0 | | |
| | | 1 ^h m. | 23,2 | | | | |
| | | 2 | 23,5 | ..... | 764,25 | 16,3 | |
| | | 3 | 24,0 | | | | |
| | | 4 | 25,0 | ..... | 763,75 | 16,0 | |
| | | 5 | 24,0 | | | | |
| | | 6 | 26,0 | ..... | 764,40 | 16,8 | |
| | | 7 | 24,5 | | | | |
| | | 8 | 26,0 | ..... | 764,30 | 21,2 | |
| | | 9 | 27,8 | | | | |
| | | 10 | 26,2 | ..... | 763,85 | 22,0 | |
| | | 11 | 23,8 | | | | |
| Fb. | Midi. | 22,7 | ..... | 762,40 | 22,2 | | |
| | | 1 ^h s. | 21,7 | | | | |
| | | 2 | 20,0 | ..... | 761,45 | 22,4 | |
| | | 3 | 20,0 | | | | |
| | | 4 | 21,6 | ..... | 760,40 | 21,8 | |
| | | 5 | 23,0 | | | | |
| | | 6 | 23,0 | ..... | 759,70 | 20,2 | |
| | | 7 | 23,5 | | | | |
| | | 8 | 24,7 | ..... | 759,60 | 19,6 | |
| | | 9 | 25,0 | | | | |
| | | 10 | 26,7 | ..... | 759,30 | 19,0 | |
| | | 11 | 26,7 | | | | |
| Fb. | Minuit. | 26,0 | ..... | 759,00 | 18,6 | | |
| | | 1 ^h m. | 25,0 | | | | |
| Db. | 9. | 2 | 24,0 | ..... | 758,10 | 18,0 | |
| | | 3 | 24,0 | | | | |

SYDNEY, PORT-JACKSON. (NOUVELLE-HOLLANDE.)

| SYDNEY, PORT-JACKSON. (NOUVELLE-HOLLANDE.) | | | | | | | | |
|--|--------------------------------------|-------------------|--|----------------------|-------------------------------|--------------------|---|------------------------------------|
| OBSERVATEUR. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHERIQUES. | | | |
| | | | En arc. | Anomalies observées. | Baromètre. | Thermomètre. | Remarques. | Vents; état du ciel. |
| | 1819. <i>Suite.</i> Déc. 9. | 4 ^h m. | 24',0 | ..... | mm. 757,70 | 17 ⁴ ,8 | | |
| Db. | | 5 | 24,0 | | | | | |
| Lm. | | 6 | 26,0 | ..... | 757,60 | 18,7 | ..... | N. O. petit frais. Beau temps. |
| | | 7 | 27,0 | | | | | |
| B. | | 8 | 27,5 | ..... | 757,35 | 24,5 | | |
| | | 9 | 26,8 | | | | | |
| | | 10 | 25,0 | ..... | 756,65 | 27,0 | | |
| | | 11 | 22,0 | | | | | |
| | | Midi. | 21,0 | ..... | 755,85 | 28,5 | ..... | E. S. E. bon frais. Temps nuageux. |
| | | 1 ^h s. | 20,0 | | | | | |
| | | 2 | 19,5 | ..... | 756,15 | 22,5 | | |
| | | 3 | 20,0 | | | | | |
| | | 4 | 19,9 | ..... | 756,20 | 21,3 | | |
| | | 5 | 20,0 | | | | | |
| | | 6 | 20,0 | ..... | 758,00 | 18,5 | Quelques gouttes de pluie, et tonnerre à 6 heures matin. | E. S. E. grand frais. Beau temps. |
| Db. | | 7 | 22,0 | De 20',0 à 24',0. | | | | |
| | | 8 | 22,5 | De 20,0 à 25,0..... | 759,35 | 18,0 | | |
| | | 9 | 23,5 | De 20,0 à 27,0. | | | | |
| | | 10 | 24,0 | De 22,0 à 26,0..... | 760,05 | 18,8 | | |
| | | 11 | 24,5 | | | | | |
| | | Minuit. | 25,0 | ..... | 760,50 | 17,6 | ..... | S. S. O. petit frais. Beau temps. |
| | | | | | | | | |
| | 10. | 1 ^h m. | 25,0 | | | | | |
| | | 2 | 25,0 | ..... | 760,30 | 17,3 | | |
| | | 3 | 24,5 | | | | | |
| B. | | 4 | 24,5 | ..... | 760,60 | 17,0 | | |
| | | 5 | 25,0 | | | | | |
| | | 6 | 26,0 | ..... | 761,90 | 17,0 | ..... | O. S. O. bon frais. Par rafales. |
| | | 7 | 27,0 | | | | | |
| Lm. | | 8 | 29,0 | ..... | 762,15 | 21,3 | | |
| | | 9 | 28,7 | | | | | |
| | | 10 | 27,0 | ..... | # | 20,8 | ..... | Presque calme. Beau temps. |

RIO DE JANEIRO (2^e RELACHE).

| OBSERVATEUR. | DATES. | HEURES. | POINT DE LA MIRE où correspond l'aiguille. | | CIRCONSTANCES ATMOSPHERIQUES. | | | | |
|--------------|-----------------------|----------------------|--|---|-------------------------------|--------------|--|--------------------------------------|--|
| | | | En arc. | Anomalies observées. | Baromètre. | Thermomètre. | Remarques. | Vents ; état du ciel. | |
| | | | | | | | | | |
| Dp. | 1820. Août. 19. | 1 ^h 0'm. | 25',5 | • | mm. | | | | |
| Dp. | | 2 0 | 29,0 | De 23',0 à 24',0..... De 24,0 à 34,0..... Oscillation au delà de l'é- tendue de l'échelle. | 769',03 | 15°,0 | NOTA. Le zéro de l'échelle est à l'Ouest de l'observateur, qui lui-même est au Nord de la mire. Les parties de l'échelle sont des minutes ; son étendue est d'un degré. | | |
| Frey. | | 4 0 | " | Idem..... | 769,00 | 15,0 | | | |
| Frey. | | 5 0 | " | Idem. | | | | | |
| Dp. | | 6 0 | " | Idem..... | 769,90 | 15,3 | | | |
| Dp. | | 7 0 | " | Idem. | | | | | |
| Frey. | | 8 0 | 26,5 | ..... | 770,50 | 17,2 | | | |
| Dp. | | 9 0 | 27,0 | | | | | | |
| Dp. | | 10 0 | 28,2 | ..... | 771,00 | 18,8 | | | |
| Frey. | | 11 0 | 28,3 | | | | | | |
| Frey. | | Midi. | 27,2 | ..... | 770,02 | 22,2 | | | |
| Dp. | | 0 ^h 20 s. | 26,5 | Très-lentes, de 26 à 27. | | | | Ouest, petit frais. Très-beau temps. | |
| Dp. | | 0 40 | 28,4 | De 27,8 à 29,0. | | | | | |
| Dp. | | 1 0 | 28,5 | ..... | 769,04 | 21,8 | | | |
| Dp. | | 1 20 | 29,0 | | | | | | |
| Dp. | | 1 40 | 29,5 | De 28,0 à 31,0. | | | | | |
| Dp. | | 2 0 | 30,0 | De 29,0 à 31,0..... | 769,00 | 21,5 | | | |
| Dp. | | 2 20 | 29,5 | | | | | | |
| Dp. | | 2 40 | 28,7 | Très-lentes, de 28'5 à 29'. | | | | | |
| Dp. | | 3 0 | 29,5 | De 28,8 à 30,2..... | 768,80 | 21,9 | | | |
| Dp. | | 3 20 | 30,0 | De 29,8 à 30,2. | | | | | |
| Dp. | | 3 40 | 29,0 | De 28,5 à 29,5. | | | | | |
| Dp. | | 4 0 | 29,4 | De 28,8 à 30,0..... | 768,75 | 21,8 | | | |
| Dp. | | 4 20 | 29,4 | De 28,8 à 30,0. | | | | | |
| Dp. | | 4 40 | 29,8 | | | | | | |
| Dp. | | 5 0 | 30,9 | De 30,4 à 31,5..... | 768,85 | 21,2 | | | |
| Dp. | | 5 20 | 31,0 | | | | | | |
| Dp. | | 5 40 | 30,0 | | | | | | |
| Dp. | | 6 0 | 30,5 | ..... | 768,65 | 19,9 | | S. O. petit frais. Très-beau temps. | |
| Dp. | | 7 0 | 30,0 | De 29,5 à 30,5. | | | | | |
| Dp. | | 8 0 | 30,0 | ..... | 768,50 | 18,0 | | | |
| Dp. | | 8 20 | 30,0 | De 20,0 à 40,0. | | | | | |
| Dp. | | 8 40 | 31,0 | | | | | | |
| Dp. | | 9 0 | 31,1 | | | | | | |
| Dp. | | 10 0 | 31,0 | ..... | 768,95 | 18,0 | | | |
| Dp. | | 11 0 | 30,8 | | | | | | |
| Dp. | | Minuit. | 30,6 | ..... | 768,90 | 16,0 | | Ouest, petit frais. Très-beau temps. | |
| Frey. | 20. | 1 ^h 0 m. | " | | | | | | |
| Dp. | | 2 0 | " | ..... | 768,04 | 15,0 | | | |
| Dp. | | 3 0 | " | | | | | | |
| Dp. | | 4 0 | " | ..... | 767,70 | 15,0 | | | |
| Dp. | | 5 0 | 30,7 | De 24,0 à 37,5. | | | | | |
| Dp. | | 6 0 | 30,5 | De 25,6 à 35,5..... | 768,60 | 15,9 | | O. S. O. petit frais. Temps nuageux. | |
| Dp. | | 7 0 | 30,0 | De 29,0 à 31,0. | | | | | |
| Dp. | | 8 0 | 29,8 | ..... | 768,02 | 16,0 | | | |
| Dp. | | 9 0 | 31,5 | | | | | | |
| Dp. | | 10 0 | 32,0 | ..... | 768,50 | 20,4 | | | |
| Dp. | | 11 0 | 31,8 | | | | | | |
| Dp. | | Midi. | 30,0 | ..... | 767,85 | 22,0 | | Calm. Beau temps. | |

VOYAGE AUTOUR DU MONDE.

RIO DE JANEIRO (2^e RELACHE).

| OBSERVATEUR. | DATES. | HEURES. | POINTE DE LA MÈME où correspond l'aiguille. | CIRCONSTANCES ATMOSPHÉRIQUES. | | | | | |
|--|---------------------|---------------------|---|-------------------------------|----------------------|--------------------|---------------|------------|-----------------------------------|
| | | | | En arc. | Anomalies observées. | Baro-mètre. | Thermo-mètre. | Remarques. | Vents; état du ciel. |
| Dp. <i>Suite. 1820. Août. 20.</i> | 1 ^h 0's. | 31',5 | | | | | | | |
| | | 2 0 | " | " | " | | | | |
| | | 3 0 | 29,8 | | | | | | |
| | | 4 0 | 30,5 | ..... | 766',01 | 22 ^d ,0 | | | |
| | | 5 0 | 32,0 | | | | | | |
| | | 6 0 | 33,0 | De 32',0 à 34',0..... | 766,03 | 20,0 | | | S. E. joli frais. Beau temps. |
| | | 6 45 | 31,0 | De 3,0 à 55,0. | " | " | | | |
| | | 6 50 | 31,2 | De 5,0 à 57,5. | " | " | | | |
| | | 7 0 | " | 766,04 | 19,0 | | | | |
| | | 8 0 | " Oscillation hors des li- mites de l'échelle..... | | | | | | Calmé. Beau temps. |
| 21. | 1 ^h 0 m. | " | <i>Idem.</i> | " | " | | | | |
| | | 7 0 | 31,0 | De 29,0 à 33,0. | " | " | | | |
| | | 8 0 | 32,0 | ..... | " | " |  |  |  |
| | | 11 0 | 31,8 | | " | " | | | S. S. O. petit frais. Beau temps. |
| | | 1 ^h 0 s. | 30,0 | ..... | 769,03 | 22,0 | | | |
| | | 3 0 | 29,9 | | | | | | |
| | | 5 0 | 32,5 | | | | | | |
| | | 5 15 | 32,0 | De 32,0 à 33,0. | " | | | | |
| | | 5 30 | 32,7 | De 31,5 à 34,0..... | 768,80 | 22,0 | | | |
| | | 5 35 | 32,2 | De 28,0 à 36,5. | " | " | | | |
| | | 6 40 | 32,5 | De 32,0 à 33,5. | | | | | |
| | | 7 0 | 31,0 | De 29,0 à 33,0..... | 769,75 | 20,8 | | | |
| | | 7 20 | 31,7 | De 30,0 à 33,5. | | | | | |
| | | 7 40 | 31,5 | De 27,0 à 36,0. | | | | | |
| | | 8 0 | 30,5 | De 27,0 à 34,0..... | 770,00 | 20,0 | | | S. S. O. petit frais. Beau temps. |
| | | 8 10 | 31,5 | De 25,0 à 38,0. | " | " | | | |
| | | 8 20 | 31,5 | De 29,0 à 34,0. | " | " | | | |
| | | 8 30 | 31,5 | De 30,0 à 33,0. | | | | | |
| | | 8 45 | 31,5 | De 31,0 à 32,0. | | | | | |
| | | 9 0 | 32,0 | | 770,02 | 21,0 | | | |

FIN DU MAGNÉTISME.



BIBLIOTHÈC
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LAUSAN

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