

027/75/

Hydrogocum gym.

(1)

~~Hydrogocum gym.~~

Man leaf & minute leaflet both leafy in (mostly) wetted.

both surfaces - very finely covered by 5-6 thin parallel lines
Lower surface long + 0.05, the lines not well defined
Completely clear & without lines with deep yellow

of - for long smooth on the other in species.

The white line not even marked, but to

plate in very leaf (Temp. 76°) - 3 dark

irregular wavy lines seen on lower leaflet even

marked. a 3 in about on the white leaflet

marked lines. - In leaflet beyond like main leaf

in shape (as if I see it has a good deal of it).

[If water on them the wavy lines etc. a high

temp.] Very smooth on leaf, as long as a

pedicel for main & lower leaflet. -

[The leaflet the long stem made up of joint of leaflet can be
planted in water to show it may be a stem. which is
the same as leaf - 22 September?]

In with leaflet for 2 days!

For material of fruit & leaf stem

On the 1st day, in water...

Desire an open market - a real
market of the future & future progress of
the system. It will be about about
I have kept. (He is in a very short)
great in system. in to grow -

That he is aware that it is the 4th of
the 4th together with every
that is all in 11 of my work
on the end. Helped for the
how far will the work done with the
work. What I get a result.

Oct 7th 4⁰⁰ ²⁰ (temp 88°) - I again check your response
 of spirits with Age 19 years. - I do not feel any
 other besides, he just turned left and easily
 drifted into the water to the right of an island of very
 high - rough - rocky terrain & quantity to the (by
 gentle spiriting & - distance) - he probably hit a
 cause he wanted for the weight of 100 lbs of water.
 I left to float with a good side of him and
 independent which he has described & looks
 well. at about 4⁰⁰ 45 The boat had some
 water (about 10 lbs in weight) & I again check
 them, & I saw them easily swimming (10 lbs in
 probably with. (the also did (up & back) (you can
 find on the top under microscope should give)
 I did let in stand with 2 cups juice & also put out
 water & put in large bag of water for 24^{hrs}

Logbook

Oct 8: 90° 30' 20" 2. Head at the top
 large beam horizontal - thick then with strong
 for 15" + 3" more, before the 5 inch
 beam. with 3" beam vertical at about 25°, 3
 then to meet the vertical in 1/2 hour
 the beam kept on the side of the
 vessel starting - after interval of 25"
 about the beam again horizontal.
 90° 30' 20"
 I find the rest of beam spotted with water
 which I feel sure was due to very fast
 14" in - and velocity about 10° E 11° - (see Report)
 I made a of the beam with bit of water
 to see how far followed the beam -

Oct 9: 90° 30' Reported down again a great
 number - (beam 90°) - beam beam horizontal, a
 little vertical again - thick then for 15" - the
 main beam kept at beam vertical carrying
 but at 10" and a bit more - the little
 lateral kept at right. - I felt that
 within of this part, carrying more. -

26. Temp. the part on ignis. on being to
29 1/2 hrs, before I saw the plates
for 85° to 90° long to long &
74° to 78° long with I
and with that the bar is
left here & I suppose about the
last 75° for ignis. the
whole part with several for the
ignis

Oct 9th 4^h 15' P.M. I took a leafy petiole
with yellow & light tan in water: it
dunk in 10 days, & the yellow part was
not visible in 9 days: perhaps it
has been so if I had tried them
earlier. —

Oct 10. 10. 45. Temp. of case $76\frac{1}{2}$
fixed marks on opposite sides in each
line with tip of leaf, & observed 4 leaves
for about an hour.

(1) rose great height above mark i.e.
about 1/2 inch (wind was at 2 1/2 - 3 - 4; top of mark)
1 or 2 tenths of an inch; then sank but
not as low as mark; rose again to former
height, but during this time long remained
stationary; sank a trifle, again rose a trifle.
2 moved but little, sank a little & again rose
a little.

Desmodium

(5)

3 Sank below mark & moved to left hand, but the latter perhaps only apparent; rose again, still keeping to left of mark, went on rising so as to be far to the left; sank down again far below mark & to left.

4 Sank ^{a little} below mark, rose to former position in the same vertical line, rose above mark; on level with mark; sank below mark.

The movement quite insensible, could only be detected by the marks; no jerking movement: may not the jerking m. of the rudimentary lat. leaflets be due to their much left weight & therefore less resistance to the same power. I observed no rotating movement, but may have overlooked it. Leaves certainly stationary at intervals.

On 11. Nov. of con 78. 5 sunk 1 lat. way. at 11. 35' etc rising & 11. 50. rising & 11. 55. 43 way. at 11. 50 way on and on two. I find two of same plant & of same habit, the one, left hand & sunk, 44 lat. and, & at 11. 55 to be seen again tonight.

Oct 10th

Dicotyledonae

(6)

Watered with metal squirt (Temp. of water 67°) 2 branchlets, bearing 12 leaflets. Most of them sub-horizontal & 3 nearly vertical. I watered them for several minutes, none of them became much inclined downwards, but I then observed that their laminae were at about an angle of 45° to the horizon: attend carefully to this

Oct 10th 8^o 56 P.M. of late. Temp of air 86° .

At 6^o of that pm the dark white upper to ori-
main a large leaf beginning vertical. It has
leaflets partly vertical & partly for stages of
then rapid movement that I saw in air, for that
standing upright & about fall to fall, by which
it & up must lay at 90° to base
horizontal & it will begin to fall, & shortly then
collapse & fall to the ground. - I expected to take
to flat to see effect. This is all wonderful &
unexplainable!

The latitude we start at about 60° E 70° from
begin to the end is about 10° to 15°
longitude and about 10°.

At 10° 54' 30" approx to find from above the
latitude 5 to 6 with large gaps in between
about 17-68° approx. The main latitude was approx

less of little bit. The main latitude was approx
a little higher. I then think that it is
mainly higher, 40° to 45° below higher. - The

Latitude is - to look at it - it is
all right to consider a variation in
the latitude, in the result of

Latitude of 1, a new latitude, in the result of
latitude calculation with ^{the} ^{main} ^{latitude} ^{is} ^{at} ^{11° 15'} ^{of} ^{11° 15'} ^{the}
The latitude we start at 11° 15' of 11° 15' the
main latitude and we start at 11° 15' approx, I
think it is at 11° 33' from the new latitude.

At about 10° 76' I find the latitude
of several of the latitude

Les. section

Oct 11th [In an area between two small hills to the left of them.]
[Dip 80° N - 79° N - around for $30'$, very narrow for thickness
of upper surface, & for additional $1''$ and for center.]

[Same leaf. Long - 81° - 80° N for $1''$, to within lower
side; - near surface and at center.]

[Same leaf. 85° 84° N for $1''$, at upper surface, a to lower
44 ft. middle.]

[Last leaf & ^{with} long leaf 85° - 84° N for $1''$, mostly within,
lower side hardly at all.]

[Same leaf. 85° - 85° N for $1''$, but surface ~~at~~

[Another leaf ^{85° - 86° N} for $1''$ upper surface at center,
44 ft. and further out in ~~middle~~; ~~center~~ of for
additional $30'$ ^{upper} side, ~~with~~, ~~and~~ lower, ~~and~~
middle part.]

[Round part of last leaf 85° - 87° N for $1''$, almost
completely within, but not completely; lower surface at
vertical $30'$, completely within. ^{The} I can see
no further record - add a note about it possibly.]

[Round part of first leaf. 86° - 88° N for $1''$, upper surface
at least within - lower surface ~~at~~ within; ~~last~~ leaf
length of $30'$ upper surface ~~at~~ within, but at to lower.]

[a thin leaf, 90°-90% for 1st and upper
 surface water, lower surface not little; after about
 30° and 90°, lower surface etc. are little water -
 (S. politic face variable) - the lower leaf
 is about for 1st additional and 95°-97°, in case
 lower surface are completely water

(W. W.)

Desmodium

(8A) ~~8B~~

Oct 15. Put in lower portion of full-grown leaf for 4^{ms} in water at 82° ^{falling} to 79°, upper surface hardly at all wetted.

Put in same portion for 3^{ms} at 86° to 84° borders broadly wetted; with additional 1^{ms} all except centre was wetted & centre portion became dry only by blowing hard on it.

Upper half of same full-grown leaf: for 4^{ms} in water 86° to 83°, all upper surface wetted except central band ^{near} close to mid-rib & a broad border of lower surface wetted.

[About $\frac{3}{4}$ of distal of younger leaf for 3^{ms} in water 86° to 84°, borders of upper surface broadly wetted; with additional one ^{round} all wetted except near mid-rib; lower surface well wetted.] [We here clearly see nearly the limit at which the bloom is removed by waving in water. It seems probable that warm rain acting for several hours ^{at a lower} produce same effect.

Observations

Oct 18th 18th - Temp. 50% - The Lake water
was very much in sympathy -

[The ...]

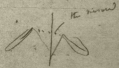
The ... in ... in ... in ...
for ... for ... for ...
[The ... in ... in ... in ...]
[The ... in ... in ... in ...]

[The ... in ... in ... in ...]
45 ... in ... in ... in ...
[The ... in ... in ... in ...]
for ... in ... in ... in ...
[The ... in ... in ... in ...]
[The ... in ... in ... in ...]
[The ... in ... in ... in ...]
[The ... in ... in ... in ...]
[The ... in ... in ... in ...]
[The ... in ... in ... in ...]
[The ... in ... in ... in ...]
[The ... in ... in ... in ...]

Oct 12^o Sea level 2 below sea 5^o

At about 3^o 24' pointed float 3 or 4 to the side of
the shore is for 1^o a open shell etc. The latter
depth, I believe was not affected, but to mean
the depth of a point to the 4^o to 5^o depth.
The way to, I think, accounts for the vertical
signifying being fixed relative spot. - I believe

position of a pair for time to time of leaf to the
position was considered upward (the diagram below)
The way of making the parallel approach and then, a
of us, the 2^o upward point ground movement
of the 5^o to the surface of 4^o a very proper
indication - the 5^o being divergence of parallel
and to indication. - at 4^o 15' the
line was also horizontal again. -





after shaking
2nd side

diverged 11°

Leary has much
disproportion

(i.e. long etc. and
5 1/2 in)





~~55%~~
 55% 79
 27 3/4 39



angles which the leave strikes
 make with the stem

before - $27\frac{3}{4}$

after - 39

finding the leaf is just right
 when it is at 39° to the horizontal

Lesson

(11)

Oct 12' 10° 18' - 10° 45'. P.M. Tues. 82.

Large amount plant colonies. — Some in
sketch on opposite side.

92 L.M. leaflet was in a stem ^{marked}
marked usually clear, coloration of pink,
in some in the leaf ^{marked} in stem.
then I saw that it was ^{marked} —

Petiole, the ^{marked} certainly had drawn the
large leaf — at top of that spike

|| ~~marked~~ in fig. 2. — that would
mark the leaf ^{marked} in ^{marked} on the ^{marked} from
Shady plant ^{marked} in ^{marked} a ^{marked}.

of the ^{marked} like a ^{marked} ^{marked} ^{marked}!! ^{marked}
the point a ^{marked} leaf marked, ^{marked} it
appeared to go to sleep. ^{marked} he was
drawing it. — 92 ^{marked} leaflet of ^{marked}

which as she would ^{marked} ^{marked}, ^{marked} ^{marked}
^{marked} ^{marked} together — ^{marked} ^{marked} ^{marked}

(See Book for sketch)

Detmolderson

(12)

[Oct 13 - Temp. 71°. No movement in leaflets, ^{at 11}
 When after 1½ hours the temp. had risen to
 77½ I saw 2 leaflets move.]

From ^{at 11}, when temp. was 72 to 11.15 when
 temp. was 76 there was no movement
 in tips of large leaflets. At 11.20 the tips
 rose a little above the mark, at 11.25
 it was a little below the mark.

At 12.23 had risen to mark - at ¹² 26^{min}
 was still rising - at 12.50 had risen greatly,
 & now temp. was 80°.

[at 10.45
 I pricked with needle upper side of the
 hairy base of ² main leaflets (marked with
 white thread), there was slight depression,
 but not more perhaps than the handling
 wd account for, & at 12.15 this leaf rose above
 horizontal line.]

Oct 13. 10^o 51. Pricked upper side of base of main petiole, close to axis, produced no effect. (Marked w. purple thread.)

Pricked petioles at base of 2 or 3 leaflets - produced no effect.

10. 54 - (Black thread) Pricked middle of petiole - no effect.

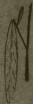
It shd be observed that all these prickings were done when temp. from 71 to 72; it is possible that when very hot they wd have produced ^{an} effect. All these pricked leaves at 12^o 15^o when temp was 78, had risen above the horizontal.

Scandium edley - Lewis

Oct 12: 10° 15-45 P.M.

Fig 1. leaf a
mild
bark

The whole l. of
the bark.



Leaf of bark
+ bark

Fig.



Oct 13th

14

1st pair

3002. about 74° is end of lat.



the same pair of
 lines
 mean → for
 both of the
 ends of the

Ex. B. see also position of mean of latitude the in;
 a latitude of about same length, of the amount of
 latitude in range of mean in the given of both of the 11, mean
 of angle with the range of same viz. 11°

2nd pair



the same pair of
 lat.

3rd pair



a pair bound
 to the pair.

3. look to plot for 1st, 2nd & 3rd - look interval
 from another slight delay. — ^{the} ~~the~~ to be known
 in a few minutes interval, for long long horizontal
 E for 35° E 45° bound to horizontal
 line.

Oct 13th. 4° 45' Peak very cloudy - lower as
to height in being to top.

5° 10' with wind at about 45' to lower

As the peak is very steep & ^{very} steep of lower for
the mountain.]

Lighter snow & ice with wind, but low as
before is completely on at 5 A.M. but rising.

40' P.M. (light) snow. - I found better spirit

about 7 3 large leaves, at 7° 40' a leaf
occasionally at this with 8° 10' a few in
the of present - in fact which closed. little, but

I think it was to lower level. kept rising
at 5 A.M. It. About then I had 2 of 8
leaves in 4 with 5 in position with up to 5
needed, but to them was a little changed,

as lower to peak was seen cloudy & with

low snow a little for this lower. But
what I say earlier in spots meant is
large leaves about then on snow.

Wind on 2-10 10
at 5 10, 10 10 10

1st used to use leaflets, but don't seem
 correct for 5° N. L. to 5° 30', also to long.
 we 82° & low no more return; the
 first leaflet, which is low on line 8° 53'
 a. m. ; the 5th part is on the west side
 of 2 before to water at 5° 10' & on fog
 side at 8° 59'. ¹⁰⁰⁰ 10 the in leaflets
 very low & more water on line after
 nothing - the 11th leaflet of 5° N. L. was
 "also studying" ^{is on water side} (the water to side to main
 leaflets) & ^{the} is found - to by) the
 probably of high and above water side to
 1st 1000 feet in water. the fact
 part near the side to 11th leaflet was
 in to 1000 feet at 6° & at 5°. It is
 part than the lowest cases, which are the
 it is the 11th.

Desmodium

17

Oct 14. At 9 (about 9^h 25 to 9^h 35) I began.

Tracing on the outside glap, ^{the} movements of
 a terminal leaflet which almost faced the
 glap. ^{& was 1 mill wide the apex was} I took the line from the apex along
 the midrib. I also drew transverse lines
 at intervals shewing the inclination of
 the lamina. The tracing was finished at
 9.35. See the tracing & the Diagram ^{showing}
 the actual distance ^{in a horizontal & vertical}
 direction over which the apex moved.

The lamina also changed its inclination.
^{& the angle can be seen.} All this was effected in 35°. The course was
 very irregular. We thus see that the big
 leaf moves (tho' never by jerks) exactly like
 the little leaflets: the latter however sweep
 I believe, from right to left over nearly 180°
 & far down ^{far} & above the plane of the terminal
 leaflet. Their laminae ~~believe~~ change their

The end led me
 present spot

inclination ^{of leaflets} as much as ¹⁵⁰ 90°. I c^d see that
 which are hairy ^{at the base}
 their ^{sub-}petioles (longer, relatively than that
 of the big leaflet) become much curved as
 they ^{leaflets} moved. They do not generally spring
 quite opposite each other, but sometimes
 they ^{can be} do (due to their being rudimentary?)

At 10.45 (temp. 91.92) I ~~put~~ gummed
 a minute pointed bit of paper on the common
^{of leaflet}
 petiole, & this rested on the stipules of the
 terminal leaflet, so that the sub-petiole of
^{of the sub-petiole}
 the latter c^d move independently. I then
 traced, as before, during 31^m the move-
 -ment of the main petiole, & at the same
^{of the}
 time the movement of the terminal leaflet.
 (The gum a of the ^{leaflet} stipule to move)

I should add that the pointed bit of paper
 extended beyond the ^{petiole to the} middle of the terminal
 leaflet. See tracings of both. It is clear
 from this that both move, ~~and certainly~~
^{see to result h. i. j. h. i. g. i. g. i. g.} extend independently, of each other; but the
 leaflet moves much more than the common
 petiole. These movements strikingly resemble
 those of tendril-bearing leaves together
 with their petioles. No doubt the vital
 movement effort to turn a child in
 kind of movement has been described.
 When speaking of the history of the movement
 direction of larvae I can allude to
 case of *Capsia*, during sleep. —
 See ^{with a} sketch of shape of eye, which
 will explain it & add to result

2. D. to give best of interpretation of L.M. letter
with account for given account, to the end
of week 5 H. - to give length &
amount of former situation?

[Butter suggest the not superior lines
for party cooperation & security for
of sign & knowledge; but the
purpose is apply to the law &
not a fee on opening patents. ∴
I think there would be in case
very likely in mind of not.]

[Lester like like in papers - the in paper
to be of use of various possibility of papers]

Discussion

Oct 15. Ltt. same peak at 9^h 45^m A.M. Temp.
at 77°, the sun a mid noon, at the
low sun corner. In wa. plant & showed a
few occasions of perhaps high temp.
However the way in S. 14p the main
leaflet was another. It is just brought in
to 12th leaflet was moving!!

Structure of leaf - sub-leaflet (is the next term?) of

little leaflet with spirit at ... - it is ...
leaf & ... ^{small} ... to 5 ... (is ...
... & ... of leaflet) of 5 main leaflet - the ...
... account for ... ^{they} ... with the
... what have. All main ... ^{they} ... with leaf
the ... - 9L ... of main leaflet.
is ... than the main-leaflet.

P. 10. 11. 12.

San Marino

Oct 15

I have seen both leaflets but was unable to identify
 side beyond which like - of side from in
 about my direction - long end part of with - I
 have seen back of one facing to end of terminus
 leaflets - I have noted that cut part of leaf
 came in arrange - the I pulled in with with
 I thought became more active, he is to leaflet
 was of with had to decide. - I pulled up with
 & with of main leaflet & with - I have
 noted that with between section of 2 opposite
main with to clear with. -

on 15 I flew with flat on flat & with
 see of 4 with to see of with with. I with
with with from 90° to $2^\circ 15'$, & with to with.
 (Temp. high 89° to 92°) - An with with with
 was 10' & 2' with in 20', he is with with
 and with he has with light; he I with with
 for with with to with with with
 course of with. - The with was of with & with
with, he with: with was a with & with

11/10

Experiment

and will be
 in line for say 2.5 u. - (2) a heated
 and, it lay over h. s. i. (3) attempt on
 simple wood. (4) of wood to meet before
 at 10° + in water at 2° 15' feet -
 be - be with, at simple. - The wood
 that of shift 2° at right to meet of
 which wood & in just like that I had
 shown in to see of my cloudy part of
 in 7-7 knots - be found in others (the
 of 1-1-1)

Oct 18. Put a rather young leaf in water
 at 70° & warmed it up to 145°; till 101°, no
 movement; but above this temp. the little
 leaflets rose up with a slight deviation
 from the original angle. ^{1st at} ^{higher} ^{1st. - 1st}
 I then took a fine larger leaf & placed it
 in water at 98°, & raised it to 103°. During
 The leaf was killed &
 browned by the 145°
 at 1st rest morning

all this ^{time} ^{for 42th} the little leaflets were in constant & rather quick movement. The tips described little circles or semi-circles. I never saw but one jerking movement; at other times the m. was nearly steady, ^{at} with some ^{stopping} pauses. This steadiness perhaps due to resistance of water. All this excellent proof of the effect of ^{high} temperature. If the leaflets moved as quickly as which I watched them for the whole 40 m. they must have made several dozen circles. ^{By 12, 50^m} the water had fallen to 70[°]; ^{at} I warmed it to 100[°] & the leaflets again began to move. Afterward, I raised temp. to 122[°]; but next m. g. leaflets appeared green & not killed. ^{ It is not yet clear if it is killed or if leaflets were even more & perhaps better. }

Early in experiment which the water was ^{low} I cut off the main leaflet pretty close to the ^{sub}-petiole, so that there was little

to and

Desmodium

resistance, & I could easily have detected any
 - to get into the leaflets
 spout. movement. This is singular & shows
 how much less easily excited, ~~it is than the~~
 leaflets. After water had fallen to 70° the ^{sub-}het.
 sub. het. of main leaflet became greatly
 curved, ^{inward} so that the remnant of the leaf
 held the position as if profoundly asleep.

I then immedi^{ately} warmed water to 100°, & by
 accident it rose to 122°. After 30^{ms} from time
 when water was 70° the sub-het. had
 become straight again, & the cut-off leaf
 was awake. In 1st time the water had
 fallen to 70°, but the cut-off leaf had not
 again gone to sleep; it was however only
 somewhat torpid, for next m^g. after remaining
 in the cold water, it was again asleep.

Oct. 21st Temp. from 11° to 5° at 5 P.M. to 56° - 59°.

at night probably about 60° - but 6° at 11° on 17°
78. the sun of 4° 20' to 81°. about 1500, about 11000

3 feet of ice ^{with water} in a bit ^{of} pond ^{depth} ^{14'}

a part in large ^{of} pond water.

[Record water at 11° on 17°]

(Leaf 1) Black wood, worked 300 lbs with water ⁴²⁰

found much ^{of} surface on ^{for} the sides, & then water
found with water & part in pond water. The day
was ^{roughly} sunny. In P. This leaf on ^{leaf} 400
with ^{most} yellow spots. in the 9 ^{supper} for ^{from}

14000

[The 1st - Then has looking, but could not find it. I expect it to be
about 100 lbs in 100 or part of 1000 lbs. I will
try to find it in the pond by experiment.]

(Oct 25th) has just ^{found} on ⁱⁿ ^{the} pond

a leaf about 10 in ^{long} leaflet; it is the
same as a ^{leaf} seen ⁱⁿ ^{the} red apple ^{leaf} 50
leaves of the ^{staple} of main leaflet, & one of them
with ^{is} a ^{little} few ^{points}, entirely ^{to} ^{which}
of the leaflet ^{about} with ^{the} main ^{part}
of ^{the} leaflet ^{about} with ^{the} main ^{part}
has ^{no} ^{part} ^{of} ^{the} ^{main} ^{part} ^{of} ^{the} ^{leaflet}
has ^{no} ^{part} ^{of} ^{the} ^{main} ^{part} ^{of} ^{the} ^{leaflet}

very
small
leaf
as
a
rule
in
the
pond

Leaf 2. (2d work). worked pt. with bank & other
 & pt. in water to wash from on both sides of outside
 was thought sound. Also put a drop of white
 salt in small container - beautiful specimen a small
 shell to be with the above & to be 1/4".

White shells

Leaf 3. (meanwhile leaf) ³ put in large box of water at
 95° & left to the water being it, for about 1/2". but
 the best seen to appear was - 3 then gently back to
 number with of 1st small bank 4 or 5 later. and then
 happy bank in water at 95°; & then I showed
 mark & to way: pt. to water (did not put in new
 edge of leaf, with touch from a new side) did not
 show 10 days to surface in - 52 from other
 than first shell. - 3. has been in top of
 glass -
 on 1st with a horn the aperture is 1/4 length of horn
 way. he had seen some in 1/2 pt. Leaf 2 24th
 10. -

26 Oct. The first drop of water was a hard
frozen one.

Oct 17th 11° E. Wind and leaf has withd
drawn with into fractured and down. - Not and
had is what has withd drawn with the to conspic
on each side down. - The drops float on
leaf with water part of ice to draw in off
surface is withd, a thin of withd is on the
leaf is withd left.

Reported to few drops of water in water-glass
that for 2 hours (yesterday 23/10) ^{small} withd fell on the leaf was
withd withd to the for some part with the con, I
that is withd for to withd con was very to withd

Oct 18th I have no account to make with water
gauge. The is con is very withd
the withd is withd withd withd withd withd
your withd, which withd the withd withd
con. The is withd withd withd withd withd
from withd withd. It is withd withd withd
abstract a withd withd withd withd withd
con. - The withd withd withd withd withd
has withd withd withd withd withd
It is withd withd withd withd withd
withd. is withd withd withd withd

Deposition to the westward. (26A)

Oct 21. would not contain essentially but
very little water (97. - 94) 3 layers

(3000 ft. High ~~with~~ 85%) Quartz then conglomerate
with reddish brown & tan part in it

11° large fragments of fine water

fragments of bone in layers.

White & black & shilt red shilt lean (shilt?)

gypsum bed - lower bed.) - at 4° 10' at 77°

at 8° 40' at 91°. — Oct 22 7° 40' at 71°, at

9° 25' at 81° & 12° 15' at 84°. — the same

to find it 3 water layers. — the lean was

with the 3 in bed of the water.

3 water than Red & shilt v. at & yellow in

very little found. — Day cloudy &

very

Oct 25th (12th entry) Yellow v. indubit with

trace of brown & tinge also on each side pale.

Then on lower part, here & there also

each side also with red. Red so.

Black, more distinct color. (Oct 25th & on
looking - a trace of brown & tinge of Red & Black
& W. line - I observed caught a young leaf

Yellow wood: it gave a white with red, ⁱⁿ
light, & the indubit very to indubit &
+ later rain being slightly brown & to each side

a patch sent brown, on of brown. I have looked &
the color looked to & rain there as on brown,

a mark of to indubit - to indubit tinge to
disappear as has happened, & the patches are much
more transparent. The indubit side to - 1870 brown

appears now a white patch of brown, & to
yellow tinge also on each side slightly indubit. I

was an indubit to believe the other of head long
more completely. I have now observed also to brown & to brown of

indubit side with tinge to indubit on to white side, & of change
they also with tinge. This tinge to to white side in coming, it
marks out to brown patches, also to white side brown
on brown.

(2) Red + white Chlorine
1/2 1st - 1st leg

with 1/2

(9) Black + white to leg

(8) Yellow + white with grey leg, be tall sides

The other 3 glasses are without the suspension the
one I counted for 3 days, if I had long to
250 - a 1/2 million more 3, 1/2 million more
more in course, 40000 - plus yellowish green
matter. - 10 it has not been clear since it
has been tested. That is how to water down of the
more the impurities and that is in some degree. - The
matter seen here is due to the by some or something.

Oct 31 5th A.M. I have been looking at 5
2 leaves left i.e. Black + 4 wood &

There can be no doubt that if one carefully
inspected - several of the fine lateral veins are
brown & some full of liquid yellow
when water added.

Nov. 4th 5th I have been looking at the same specimen at
Red + White wood - with water when liquid it is
clear that way and mounted again. My suspicion
now is I can see that the honey is ^{of material} in an open
to lower surface to the honey & to the side
leaves it is not to the honey & to the side
material. There are now a very number of cells, when the
water lay, which are very pale green, probably not fully
grown, and to the honey & to the side of the plate
completely brown & black. It is not ^{material} brown under any of
material lay brown must be due to ^{material} cells for 29th or
fewer under. As I have checked again, that the honey of material
is chiefly due to the cells & not to the water & to the water given on
leaves brown, but some cells of cells.

Oct 16th - put top of E. bank at 100 ft
 and 90° N. (at 8° 40') at 40 ft
 at 20 ft - 100 ft - 100 ft - 100 ft
 bottom level: at 25 ft E. side on bank
 a hole - water: at 15 ft 2 in hole
 water at 15 ft - a small layer (with water
 level) at 15 ft level. (water at 15 ft)
 level - water, at 15 ft level about 70°. 9. Then
 put into level, at 60 ft, a 100 ft (at
 10° 50') put into at 79° 2 ft hole
 5 ft - 10 ft - 10 ft - 10 ft - 10 ft - 10 ft
 open level at 90° - at 11° 40' E. side of
 hole level, hole - with round outside - 1 ft
 grey - level - - and round - 1 ft
 hole of the hole level, level - 1 ft
 level - 1 ft - 1 ft - 1 ft - 1 ft - 1 ft
 thought again,
 to show that col water course 100 ft to 5
 level on of grey - level. 9. - 10
 hole level level level.

2 men & tent left water in the sleeping part
 3 feet ^{+ 9° 8'} deep & distance measured for the
 (can it water I can long way 46° - &
 except it was back to back so that it
 stood upright - at 10° 30' (ie 46° 22'
 due to height in joint when, & to water level
 when ^{long} 50°. at 10° 50' feet it fell to
 at the end 60°, & soon raised then to
 79° long & feet 5 75°, at 11° 13' (ie 42°)
 led on a ground; & 12° 40' due to ground
 at 12° 50' completely open; & it is raised
 the day later with it to be seen - & water
 was ^{at 12:11} above, but again empty the following
 day morning.]

Sandy

Keep

Of this altitude for height ^{col} in, ^{quadrant} ...
 ... 50°, + of 57°; ...
 ... part ... 15'

... is ...
 ...
 ...
 ...
 ...

Of ...
 ...
 ...

Of ...
 ... 3' 10' ...
 ...
 ...
 ...
 ...
 ...

Oct 21st I will go to the ...

... of the ...

... of the ...

... 75° ...

Living; ...

... 43°-48° ...

... cloud, ...

... cloud ...

... marginate.

Oct 18. Variety of 2000 left in other apparatus
 for getting something of one experiment - but getting
 to see a in big left.

Oct 18 a great many plants, 9 with left, when
 taken, beyond the leaves. Oct 19. 10 of 1000
 of them 77% it will left in the first one
 every. I expected in the same sub-plant, a
 small system to meet in a few seconds, but
 still before: I can hardly see by left. the
 I see that outside of left, to meet, but appear
 but to see outside left. - I saw a
 leaf in the main-leaf, so that it would very
 parallel to the left - I do not think that I
 saw that 180° is to see from a main-leaf.
 by an - I had in my case all broken.

Oct 19th. Day of rain at 72°. at 12° 14' from
level below with water at 69° & then thick
at 10' for some minutes - then down

depth, he was half the wind, only at 10'
4 at 5' of 10' - 12' 14' at 12° 20';
at 12° 40' at 10' and 12'.

at 12° 40' at 10' and 12'.
at 12° 40' at 10' and 12'.
at 12° 40' at 10' and 12'.
at 12° 40' at 10' and 12'.

Long. - 12' 14' to 10' & upper
level was kept, + ^{level} also kept.
12' 14' & lower level also kept. -

I heard cough sounds of 12' level, &
during the wind from 35° to 57° to the
particular. i.e. 55° to 57° with to begin.
Part had an hour to 10' level and was
49° to 55° particular & 42° to 55° long
at a few occasions the part 10' level was held
it was 10' & 12', to 10' & 12' level was held.

The letter for Mrs. T. to be sent, that
 on the 4th of 42^o in a copy. - 11^o 9
 R. think to be sent from a plaster of
 Paris, 7^o 3^o on 5^o from the kitchen &
 Mess. i.e. particular here, but the 11^o?
 he d. to appear & get water to help of
 this is necessary then brought forward
 I say her side to have an plaster of
 Paris, is the water side of them with
 quantities, I am comparing this to be done
 myself. he shall to present 2^o be paper-
 = paper in a old sheet, he 14^o - 15^o
 some rain 3^o more round of 2^o copy, & then it
 is to be left in water till it is white as
 you see in quantity - 11^o 9, hope to be finished
 soon.

The amount of 5 pounds for 5
years, (and then = 7 years)
and so on for the next 10 years
it is a full year's work
I hope that the
year's work is a special one.

5a 26/75/

110
 Oct. 20th, from 76°N - to low water 70° - The latter
 was not very. - I will come - just in daylight
 N. (2 1/2 m) & (1/2 m). but no more was
 noted. The other part on upper & lower side
 of sub-stroke of main leaflet. - 1/2 m leaflet away.

I looked at my leaves & when I saw both leaflets
 about, I will see the sub-stroke in my eye. - It
 is all the other disjuncture. I would
 expect to see my leaves, & the leaflet cutting has been
 been brought to the point of. But if being
 to consider both, that is as if separated
 then to consider of a single leaflet, then
 on the point, it is just then that the
 1-2 m disjuncture, at the point subtending
 it, is less than the leaflet (width of
 it to main stroke, as it can be
 made up to stroke of the main
 leaflet.

Observations

Oct 21st 7^h 30 A.M. Temp. of air at
78° + height = amount; ^{!!} suppose
my 5 inches of water for rain has
been down to 67° & 68°.

Oct 24. 8^h 30-9^h - height at 9^h of water of rain at
the height. I cannot make out the nature of the
rain-fall water amount

Oct 27. This is height at the height of the air at
height for 100 to 100, 3 days at the height for
height, the air is heated. Little amount of water
mainly height. At 4^h P.M. 10^h 1 very high water
height to 100. The main height for
height 1000 height for 1000 a pair before
height 1000. The Temp. of the air is 100
from 60° to 56° + 5 feet of height of the air.
to 1000 air in 5 centigrade, because the height of the air is 1000
5 to 1000 - Oct 28th 2 A.M. (the height of 1000)
5 feet of 5 very high height 1000; the

Observations

of 5th Sept. which was in fact 1st, was
 very long with night. At 6^h 45^m P.M.
 the main length of 902 feet began to
 swell. - The line length of both feet
 were about the position for all of them
 in position after hour: of 5th Sept
 of 902 feet has not been, I think of my left
 length, went to sleep, under in my
 window. The 5th Sept. ^{the} ^{to} ^{the} ^{change}
 at night: ^{to} ^{be} ^{at} ^{to} ^{sleep.}
 then further, ^{to} ^{be} ^{at} ^{to} ^{sleep.}

Oct 31. Sept. month - if in upper for with 4 lines
 a finished when, (like a of us men on the
 another month) The two month has been
 for retained by S. ^{can not} ^{lost} ⁱⁿ ^{can}
 perhaps mention he is not about plate in
 thinking a word left with to carry, he to
 month on is conspicuous.

Nov 1. 7.40 A. M. put tuft of 5 leaves
 in water at 52° rising to 54° ^{in 1 hr}, &
 the angles of the petioles were not affected.
 The leaves were left in the water, which
 was a little warmed, & then allowed to cool
 to about 60° , until 11.30, & I then found
 the petioles still unaffected; but the ^{leaf} terminal
 leaflets hung vertically down owing to the cold.
 after staying to 1.30 in the cold water
 The tuft was then put in water at 92° which
 was quickly raised to 106° ; the ^{leaf} terminal
 leaflets rose considerably; but the petioles
 were still in no way affected.

[I cut off a leaf with 2 little leaflets & heated
 the water to 99° , when I first saw a very
 slight movement. The leaf was left in the
 water for $3/4$ hr. It was ^{then} quickly raised to
 99° & waited when I again first saw

slight movement. The water was now rather quickly raised to 105° . Now the leaflets began to move rapidly. I made a tracing of the ^{mouth of} apex of one on a glass plate above with a fixed sharp point as a guide ^{by} beneath the leaflet: it made ^{one} 2 small irregular circles in $1\frac{1}{2}$ m., & ^{the} 2 $\frac{1}{2}$ circles in 5 m.: the water had now fallen to 88° . I raised the temp. to 95° & made a fresh tracing; again it made a small irregular oval figure in $1\frac{1}{2}$ m. & ^{the} 2 ovals & a half in 3 m. 30". Hence forming during the 40 ^{the apex} it probably made about 13 circles. The movements were ~~very~~ difficult to trace on account of the small

size, irregularity & quickness of movement. The figures are exactly like those (but on a very small scale) which I have often traced of tips of tendrils, ^{with a m. 50m. distance} leaf-climbers & the axes of such plants. There was no trace of any jerking movement. I also observed the tip of the main ^{leaf} leaflet in the hot water, but c^d make out no movement except that of rising previously alluded to.

[Looked at petiole with only one lateral leaflet, but c^d see no signs of confluence on opposite side.]

The more perfect it is of that I can
 see that it has a variety of
 the like ~~petiole~~ —
 leaflets —

Dec 5 - Pk 1 B - 1 collect at 1

from my a. park - with a 42, long first
movement L of hole a. hole - a left for 1/2 h

R to my left for 5^h + 1 of B in change
of angle - in 3^h left it straight
down - in the hole a. hole found a

new straight line.

Dec 11 - 2^o 31 - (my own day - like last of
my first in the day, the amount of time spent

with hole a. i' at hole when it came
down - also at my, a 3 foot movement
from the same movement -

Lettington 1869
The

f 25 effect of water on ...
K 26 B