

This book is the first-ever full edition of the notebooks used by Charles Darwin during his epic voyage in the Beagle. Darwin's Beagle notebooks are the most direct sources we have for his experiences on this journey, and they now survive as some of the most precious documents in the history of science and exploration, written by the man who later used these notes to develop one of the greatest scientific theories of all time.

The book contains complete transcriptions of the 15 notebooks which Darwin used over the 5 years of the voyage to record his 'on the spot' geological and general observations. Unlike the many other documents that he also created, the field notebooks are not confined to any one subject or genre. Instead, they record the full range of his interests and activities during the voyage, with notes and observations on geology, zoology, botany, ecology, weather notes, barometer and thermometer readings, depth soundings, ethnography, anthropology, archaeology and linguistics, along with maps, drawings, financial records, shopping lists, reading notes, memoranda, theoretical essays and personal diary entries.

Some of Darwin's critical discoveries and experiences, made famous through his own publications, are recorded in their most immediate form in the notebooks, and published here for the very first time. The notebook texts are accompanied by full editorial apparatus and introductions which explain in detail Darwin's actions at each stage of the voyage, and focus on discoveries which were pivotal to convincing him that life on Earth had evolved.

'Not until now has it been possible to read in book form the immediate notes that Darwin himself had written in the little field notebooks that he carried with him ... which takes us all the way to what a young man born 200 years ago once saw when he was for some years very far from home.'

RICHARD DARWIN KEYNES, editor of *Charles Darwin's Beagle Diary*
(Cambridge University Press) and great-grandson of Darwin

COVER ILLUSTRATION: HMS Beagle in the Galapagos,
17 October 1835. Painting by John Chancellor.

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GORDON CHANCELLOR AND JOHN VAN WYHE

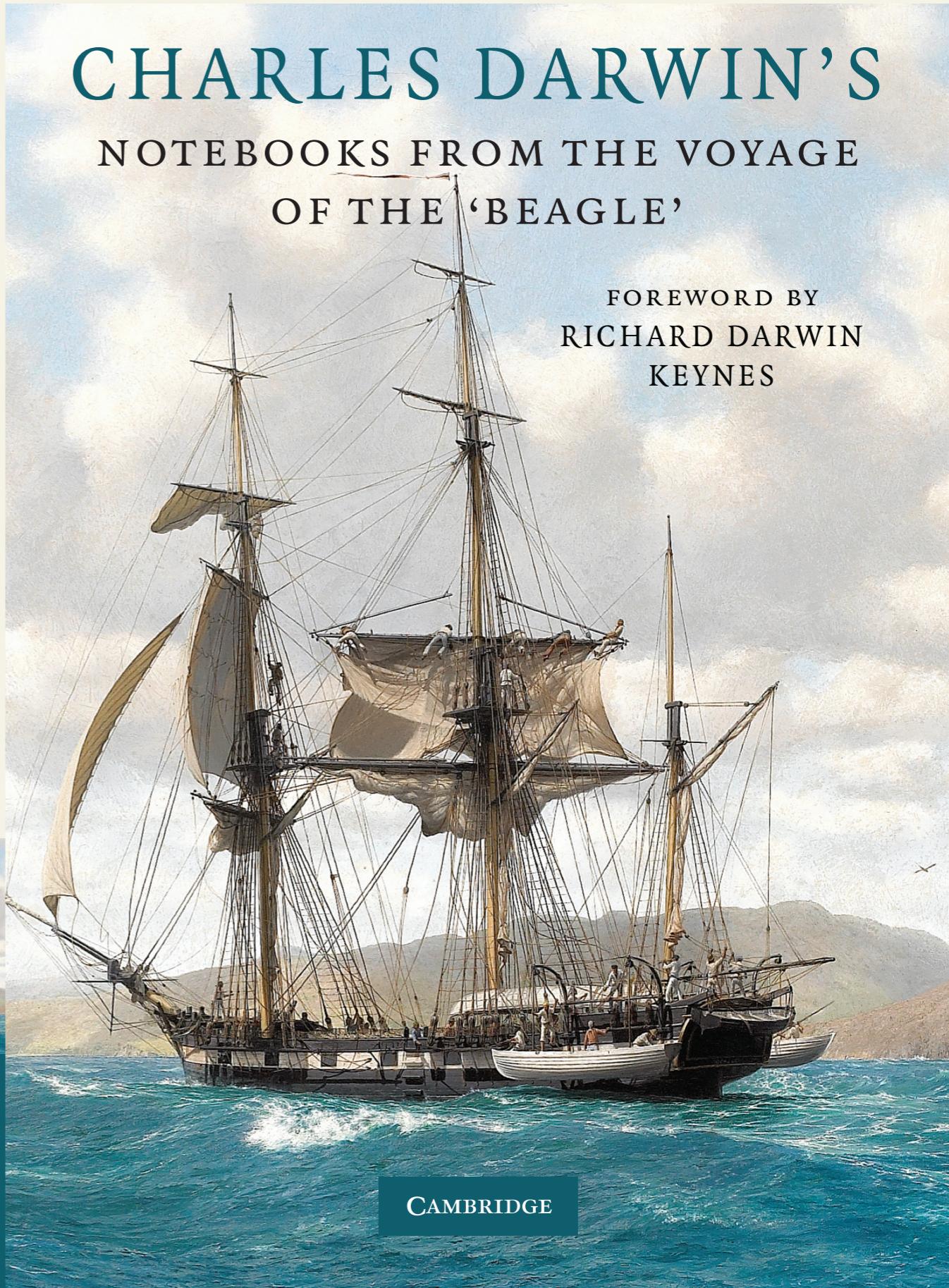
CHARLES DARWIN'S NOTEBOOKS FROM THE VOYAGE OF THE 'BEAGLE'

FOREWORD BY
RICHARD DARWIN
KEYNES

CHANCELLOR
VAN WYHE

CHARLES DARWIN'S
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Transcribed, edited and introduced by

GORDON CHANCELLOR AND JOHN VAN WYHE

Darwin's *Beagle* notebooks are the most direct sources we have for his experiences on his epic voyage, and they now survive as some of the most precious documents in the history of science and exploration, written by the man who later used these notes to develop one of the greatest scientific theories of all time.

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Some of Darwin's critical discoveries and experiences, made famous through his own publications, are recorded in their most immediate form in the notebooks, and published here for the very first time. The notebook texts are fully edited and accompanied by introductions which explain in detail Darwin's adventures at each stage of the voyage, and focus on discoveries which were pivotal to convincing him that life on Earth had evolved.

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The *Beagle* notebooks arranged in order of first use.

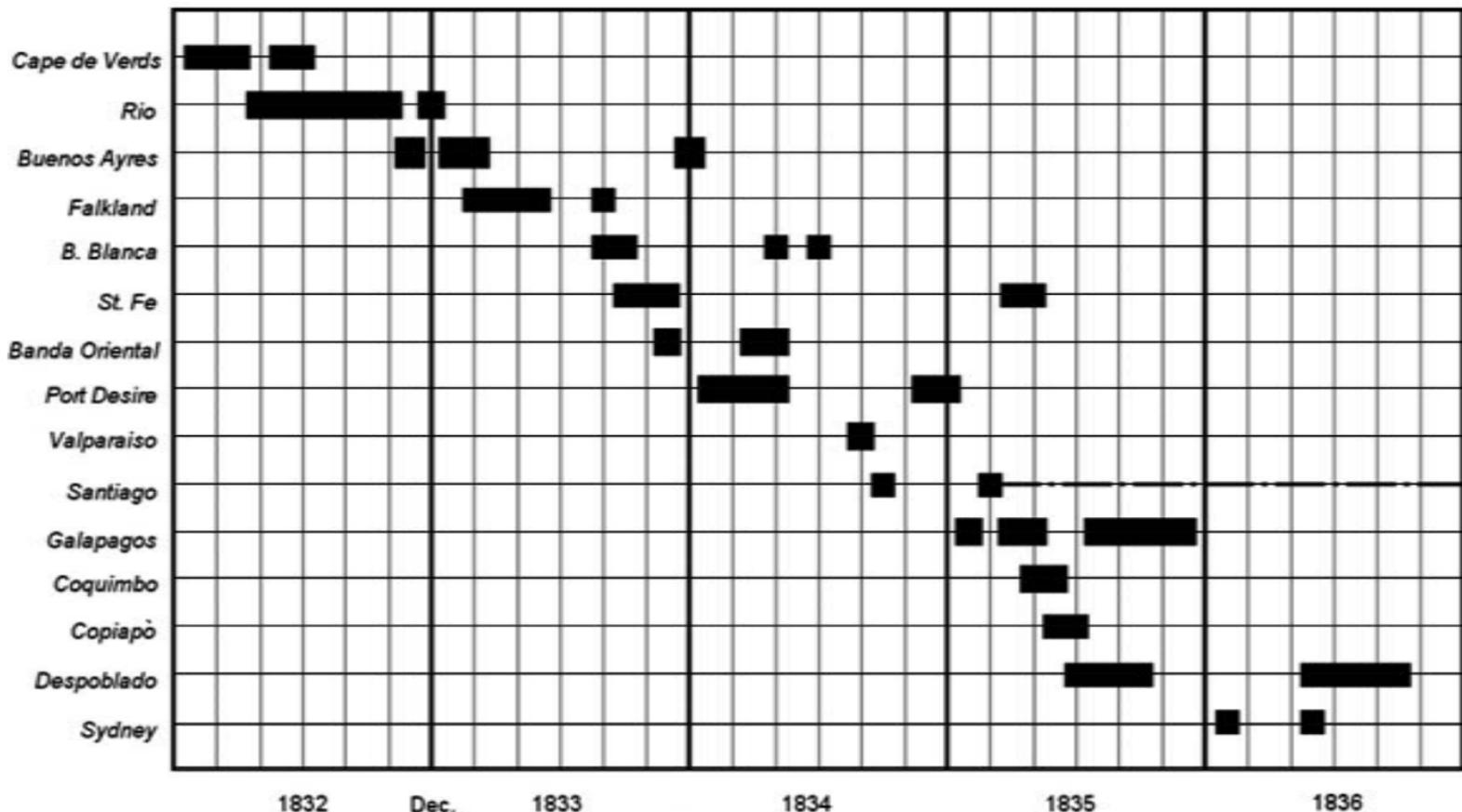


Diagram showing when the *Beagle* notebooks were in use.



Map of southern portion of South America, showing Darwin's principal inland expeditions, from Barlow 1933.



Map of Rio de Janeiro area, extract from the chart 'Southern portion of South America' from *Journal of researches*.

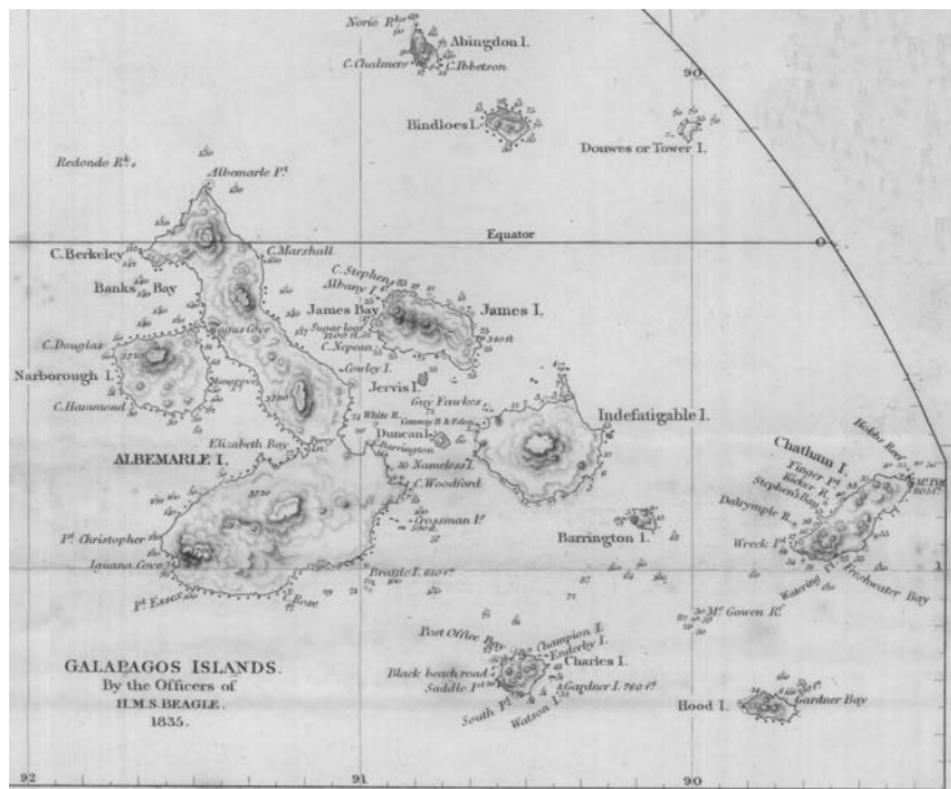


Chart of the 'Galapagos Islands by the Officers of H. M. S. Beagle 1835' from the 'Map of South America' in *Narrative 1*.



Map of Rio de la Plata, Buenos Ayres area, extract from the chart 'Southern portion of South America' from *Journal of researches*.



Map of Patagonia, extract from the chart 'Southern portion of South America' from *Journal of researches*.



Map of Chile, extract from the chart 'Southern portion of South America' from *Journal of researchers*.

Charles Darwin's Notebooks from the Voyage of the *Beagle*



Transcribed, edited and introduced by

GORDON CHANCELLOR and JOHN VAN WYHE

With the assistance of Kees Rookmaaker

Foreword by Richard Darwin Keynes



Nothing of him that doth fade
But doth suffer a sea-change
Into something rich and strange

William Shakespeare, *The Tempest*

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FOREWORD



Much has been written about the 1831–6 voyage around the world of H. M. S. *Beagle*, earning it a reputation as one of the most momentous of all voyages of scientific discovery. It was during its five years that the enthusiastic young Charles Darwin (1809–82) emerged as one of Britain’s most promising scientists. He amassed large collections of rocks and fossils, plants, corals, fish, birds and mammals, and his far seeing observations on the geology and biology of many parts of South America visited by the little ship would by themselves have secured him an honoured place in the history of exploration.

It is not, however, for this reason that Darwin is often regarded today as one of the greatest of all naturalists, who has undoubtedly changed much of our understanding of our place in the universe.

The voyage of the *Beagle* was in Darwin’s own estimation the most important thing that ever happened to him, and we now know that within a few years of his return to England in 1836 he had become convinced that all life had evolved by some natural process. His prime contribution was that he discovered how such a process might actually work, and then set about collecting the evidence to convince his fellow scientists – many of whom initially held deeply sceptical views – that he was right. In 1859, he at last published his great theory in *On the Origin of Species*, and although it must be admitted that there are still unbelievers, I am fully convinced that any true scientist will agree that Darwin’s description of life on Earth as a great tree is correct in all its essentials.

I myself have fortunately been able in my several trips to South America and the Galapagos to visit quite a few of the places seen by Darwin. I was also very happy to find in the Cambridge University Library the surprisingly well preserved manuscript, on the blue note paper that he always used on board ship, of his *Zoology notes and specimen lists* from the *Beagle*, still unpublished in 1994 and now available in my transcription (*Zoology notes*). Not until now, however, has it been possible to read in book form the immediate notes that Darwin himself had written in the little field notebooks that he carried with him, today kept at his old home at Down House. Darwin’s grand-daughter Nora Barlow – my mother’s first cousin and my own godmother, the finest of Darwin scholars – was the first to transcribe and publish

Darwin's original journal of the voyage (1933). She followed this with some of his letters home, and extracts from the notebooks (omitting the purely geological material) in her *Charles Darwin and the Voyage of the Beagle* (1945), and then by her invaluable edition of his *Beagle* ornithology notes in 1963.

So Gordon Chancellor's dream, to which I was first introduced about twenty-five years ago, of producing a complete edition of the field notebooks, has, with John van Wyhe's collaboration, come to fruition. We thus have another link which takes us all the way to what a young man born two hundred years ago once saw when he was for some years very far from home.

Richard Darwin Keynes
Cambridge
June 2008

INTRODUCTION



In their pages his impressions pour forth with an almost devotional enthusiasm; that they are hastily scribbled and intended for no eye but his own is obvious. But the lapse of more than a hundred years, with all that was to ensue from these fragmentary records, has given them a value like that of the first and imperfect impression of a precious etching.

Nora Barlow, *Charles Darwin and the voyage of the Beagle*. 1945, p. 2.

Charles Darwin created a vast amount of notes and records during the 1831–6 voyage of the *Beagle*. Probably the best known of these is the *Beagle diary*, which formed the basis of his classic work *Journal of researches* (1839). It is still in print. Yet Darwin spent only thirty-three per cent of the voyage at sea in the *Beagle*. Most of his time was spent on inland expeditions. While on shore Darwin usually carried one of fifteen small pocket field notebooks in which he entered his immediate impressions. The notebooks are thus the most direct source for Darwin's *Beagle* experiences. The revolutionary importance and fame of Darwin's work on the voyage of the *Beagle* makes these notebooks some of the most precious documents in the history of science. They are printed in their entirety here for the first time. They offer a rich new vein of material for further study.

As the editors of the *Correspondence* noted, Darwin's *Beagle* records formed five broad kinds: field notebooks, personal diary, geological and zoological diaries and specimen catalogues. The latter category comprised three specimen notebooks for dried plants and animals, three notebooks for specimens in spirits of wine and four geological specimen notebooks for rocks and fossils. Unlike the many other documents Darwin created during the voyage, the field notebooks are not confined to any one subject or genre. Instead they record the full range of his interests and activities during the voyage. They contain notes and observations on geology, zoology, botany, ecology, weather notes, barometer and thermometer readings, depth soundings, ethnography, anthropology, archaeology and linguistics as well as maps, drawings, financial records, shopping lists, reading notes, memoranda, theoretical essays and personal diary entries. They contain a wealth of new and untapped material. For example, dentists are mentioned eight times in the notebooks throughout the voyage and there is a note of a 'denture mended' suggesting previously unknown insights

into the state of Darwin's teeth. The notebooks also contain Darwin's first known mention of the Galapagos islands and of their now famous finches. The notebooks also provide evidence of literature consulted or cited by Darwin that is not known to have been in the *Beagle* library. (See the reconstructed list of the *Beagle* library in CCD1 Appendix IV.)¹

It is often remarked that Darwin had a poor grasp of foreign languages. Yet the notebooks attest the fact that Darwin experienced much of the voyage in Spanish. On St Jago in the Cape de Verds in 1832, at the start of the voyage, Darwin recorded using a 'Spanish interpreter' (*Beagle diary*, p. 30); in Bahia, Brazil, in March 1832 Darwin 'procured an Irish boy as an interpreter' (*Beagle diary*, p. 45) but there are no other references to interpreters until his visit to Tahiti in November 1835. Unlike the *Beagle diary* and correspondence, which were written retrospectively and for others to read, the notebooks were usually written concurrently with or on the same day as the events they record, and for himself alone. They thus preserve traces of Darwin's social experience amongst local peoples. In addition to using local names and expressions, Darwin sometimes began to write in Spanish such as the entry: 'Dom[ingo] [Sunday 21] [June 1835]' (*Copiapò*, p. 81). Darwin began to write the day's name in Spanish, corrected himself, and proceeded in English. Another entry: 'Domingo 15th [September 1833]' (*B. Blanca*, p. 55a) was even written over a second time by Darwin in ink, and not altered.

In a very few cases Darwin quoted directly from the notebooks in his publications as in *Journal of researches*, p. 24, 'I see by my note-book, "wonderful and beautiful, flowering parasites," invariably struck me as the most novel object in these grand scenes' (*Rio notebook*, p. 9b). During the Darwin centenary celebrations in 1909 three of the *Beagle* notebooks were displayed at Christ's College, Cambridge, and two at the Natural History Museum (as it is now known).² The notebooks were first described by Nora Barlow (1885–1989) in the preface to her edition of the *Beagle diary* in 1933. She later published fairly detailed descriptions of the notebooks, together with extensive extracts from the non-geological parts in her *Charles Darwin and the voyage of the Beagle* (1945), the only book length study of the field notebooks. However, Barlow omitted 'as much as nine tenths' of the complex geological content. Historians now appreciate that Darwin saw himself during, and long after, the voyage as a geologist (see Herbert 2005). Today the notebooks are preserved

1 The works clearly consulted by Darwin in the notebooks, but not known to be in the *Beagle* library, are: Anon. 1833, Boué 1830, Cleaveland 1816, Dillon 1829, Febres 1765, Mariner 1817, Péron 1807, Seale 1834, Thunberg 1795–6 and Waterton 1833. There was also a map, apparently by d'Albe from 1819, which has not been identified. Other works referred to, though not necessarily consulted, include Azara 1802–5, Azara 1809, Davy 1830, Fitzinger 1826, Funes 1816–7, Hacq 1826, Helms 1807, Luccock 1820, MacCulloch 1820, Pennant 1771, Scoresby 1820, Stevenson 1825, Vargas y Ponce 1788, Wafer 1699 and probably a report of Murray 1826.

2 [Shipley and Simpson] 1909, p. 37; Harmer and Ridewood 1910, p. 11.

by English Heritage at Down House.³ The history of the notebooks, and how they came to be preserved at Down House in 1942, is told in Barrett *et al.* 1987, p. 2.

The present edition began in the 1980s when Chancellor prepared working transcriptions of the notebooks in longhand with the intention of publishing them as a book. Owing to unforeseen circumstances the work was never completed. In 2004 van Wyhe invited Chancellor to contribute his transcriptions to *The Complete Work of Charles Darwin Online* (<http://darwin-online.org.uk/> [hereafter *Darwin Online*]). Chancellor's transcriptions were keyed into a computer and checked against digitized microfilm images of the notebooks by Kees Rookmaaker in 2006–7. These were then checked by Chancellor, Rookmaaker and van Wyhe against the microfilm and later against the notebooks themselves at Down House. Working transcriptions of the field notebooks were published for the first time on *Darwin Online*. For the present edition Chancellor provided definitions of the geological and palaeontological terms and van Wyhe revised the transcriptions and added editorial and textual notes.

The *Beagle* field notebooks are usually referred to by their former Down House catalogue numbers. Sometimes some of the text on their labels is used. However as the numbers are arbitrary, were not given by Darwin and convey no useful meaning and Darwin's labels are often rather long, we have assigned unique short names to each notebook. These are taken verbatim from the notebook labels written by Darwin. The following table collates these short names with the former Down House catalogue numbers and their English Heritage numbers.

Short name	Down House	English Heritage
<i>Cape de Verds</i>	1.4	88202324
<i>Rio</i>	1.10	88202330
<i>Buenos Ayres</i>	1.12	88202332
<i>Falkland</i>	1.14	88202334
<i>B. Blanca</i>	1.11	88202331
<i>St. Fe</i>	1.13	88202333
<i>Banda Oriental</i>	1.9	88202329
<i>Port Desire</i>	1.8	88202328
<i>Valparaiso</i>	1.15	88202335
<i>Sanriago</i>	1.18	88202338

3 The notebook labelled 'Galapagos. Otaheite Lima' (*Galapagos notebook*), although fortunately microfilmed with the others in 1969, had disappeared from Down House by the early 1980s. Its current whereabouts are unknown. There are three other notebooks at Down House which were not used in the field during the *Beagle* voyage and therefore are not included in this edition. These are *R. N.* or the *Red notebook* (published by Sandra Herbert 1980 and in Barrett *et al.* 1987), the *St. Helena Model notebook* (Chancellor 1990), which is entirely post-voyage, and a very fragmentary notebook labelled 1.1, which, to judge from the London address of CD's brother on the cover and inside back cover, and apparent 1870s dates on some of the many excised page stubs, is also entirely post-voyage.

<i>Galapagos</i>	1.17	88202337
<i>Coquimbo</i>	1.16	88202336
<i>Copiapò</i>	1.7	88202327
<i>Despoblado</i>	1.6	88202326
<i>Sydney</i>	1.3	88202323

The notebooks are here arranged in the chronological order of their first entries. This is approximately the order in which they were originally presented by Barlow and corresponds to the small circled numbers written on the inside covers by Barlow.⁴ The present order differs slightly from Barlow's in the position of the *Galapagos notebook* which she placed between the *Despoblado* and *Sydney notebooks*. Our order agrees with the list adopted by the editors of the *Correspondence* who consulted Chancellor when preparing the list in CCD1.⁵

Some periods in the voyage are not covered in any of the field notebooks. Barlow believed that there were probably other, now lost, notebooks. We agree with Armstrong 1985 that this is unlikely, given the care with which Darwin preserved his *Beagle* notes and the existence of loose notes which cover some of the gaps in the notebooks. Loose sheets were used as field notes for Chiloe (January 1835), Hobart Town (February 1836), King George's Sound (March 1836), Keeling (April 1836), Ascension (July 1836) and Bahia (August 1836).

The field notebooks' role in the recording of Darwin's experiences during the voyage has been described by a number of authors from Barlow onwards (e.g. Armstrong 1985). Darwin used them to record in pencil his observations, often, but not exclusively, while he was on long inland expeditions hundreds of kilometres from the *Beagle*, perhaps with no other paper available. A notable exception to this generalization is the latter part of the *Santiago notebook*, which is effectively the first of Darwin's theoretical notebooks. In a letter to his Cambridge mentor John Stevens Henslow (1796–1861), Darwin remarked that he was keeping his diary and scientific notes separate. The field notebooks are documents prior to this distinction because they fed into both types of later manuscripts as well as correspondence.

Darwin later wrote about making notes in the field in *Journal of researches*, p. 598: 'Let the collector's motto be, "Trust nothing to the memory;" for the memory becomes a fickle guardian when one interesting object is succeeded by another still more interesting.' In 1849 he wrote in his chapter on geology for the *Admiralty manual*, p. 163:

⁴ Chancellor 1990, p. 206.

⁵ The list of notebook names given in CCD1: 545–6 is not always verbatim from CD's labels, e.g. 'Santiago' and 'Tahiti' are not on the *Galapagos notebook* and 'Bathurst' is not on the *Sydney notebook*.

[A naturalist] ought to acquire the habit of writing very copious notes, not all for publication, but as a guide for himself. He ought to remember Bacon's aphorism, that 'Reading maketh a full man, conference a ready man, and *writing an exact man*; and no follower of science has greater need of taking precautions to attain accuracy; for the imagination is apt to run riot when dealing with masses of vast dimensions and with time during almost infinity.

The notebooks were also part of Darwin's expedition equipment. In one of his tips for travellers in the *Admiralty manual*, p. 161, Darwin noted that 'by placing a note-book on [a flat piece of rock], the measurement can be made very accurately.' A re-constructed list of the equipment Darwin carried on his expeditions is provided on p. 583.

The diagram of the *Beagle* notebooks at the front of the volume attempts to show when the notebooks were in use. Most of the notebooks were used on separate occasions, and sometimes more than one notebook was in use at any one time. Therefore the relationships between them are often complex. It should be stressed that this diagram indicates only that a notebook was used in any particular month. The text of the notebooks or the Chronological Register at the end of the volume should be consulted to see whether this was many pages of continuous use, or a few jottings. The Chronological Register, in addition to being the most complete itinerary of the voyage of the *Beagle* yet published, allows the dates and places Darwin recorded in the notebooks to be easily found, despite the fact that he often changed notebooks and therefore they themselves are often not chronological.

Four of the maps at the front of the volume are extracts from the map of the southern portion of South America included with the first edition of Darwin's *Journal of researches* (and in *South America*). For clarity, extraneous place names have been removed and others have been added.

Probably the main reason Darwin did not use one notebook until it was full before taking up another was to protect information not yet transferred to other notes. Once he was back on board the *Beagle* after an excursion he would use the information from the notebook just used as the basis for his lengthy geological, zoological and personal diaries written in ink. Since this process might take weeks, and therefore was often not completed before his next excursion, Darwin took a notebook with him ashore which could be spared, rather than risk losing field notes which had not yet been processed. In this way he had a conveyor belt of field notebooks in various states of use. One can only guess why he sometimes ended up with very incompletely used notebooks such as *Banda Oriental*. Perhaps he preferred using some notebook types rather than others.

There are six manufactured types of notebook which were used almost chronologically, perhaps reflecting successive purchases. This can be seen by the frontispiece which depicts the field notebooks arranged in order of first use.

Type 1: *Cape de Verds, Rio, Buenos Ayres and B. Blanca*

All four notebooks have red leather covers with blind embossed edges and are of a long rectangular shape (*c.* 130 × 80 mm) with integral leather pencil holding sleeve and brass clasps. All of the original pencils, if they were included with the notebooks when purchased, are missing. This is true for all of the *Beagle* notebooks; no pencils used are known to survive. The notebooks are between 104 and 112 pages long. Some pages bear the watermark 'J. Whatman 1830'.

Type 2: *Falkland and Red notebook*

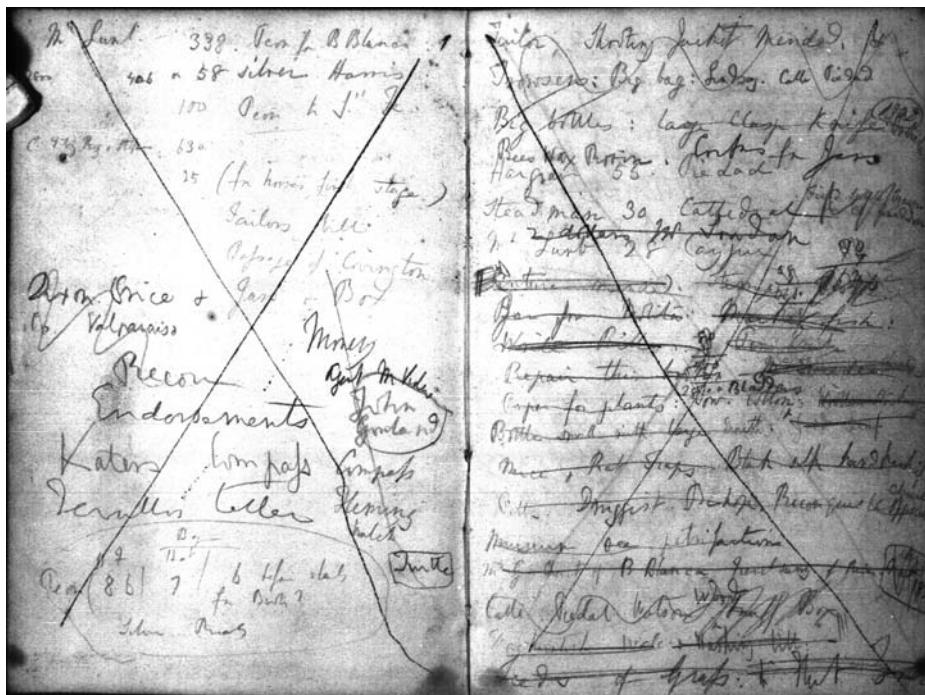
These two notebooks are long and rectangular (164 × 100 mm) and have brown leather covers with embossed floral borders and brass clasps. The notebooks contained 184 pages, some bearing the watermark 'T. Warren 1830'. Although used at the most widely varying times for any of Darwin's notebooks, they are twins. Similarly, transmutation and expression *Notebooks D* and *M* and *Notebooks N* and *E* are manufactured pairs. The *Red notebook*, which is labelled on both sides 'R. N.', was first published by Sandra Herbert in 1980. Herbert referred to the notebook in 1980 'as the name suggests, red in colour, although the original brilliance has faded'.⁶ Both notebooks are now brown though there are very slight traces of red on the front cover of *Falkland* which appear to be part of now faded colouring. Darwin at least twice referred to the former as the 'Red Note Book'.⁷ On other occasions he referred to it as 'R N' (e.g. DAR 36: 466a, DAR 118: 103v). It is a curious name given that, so far as is known, Darwin did not name any other notebooks by their colour or appearance. Given that eight of the *Beagle* notebooks are still bright red, it seems unthinkable that the *Red notebook* would be named after its colour in their presence. It was probably named after the voyage when the *Beagle* notebooks were no longer in use. Perhaps *Santiago*, which is black, was the only other notebook in use at the time the *Red notebook* was labelled.

Type 3: *St. Fe and Banda Oriental*

These two notebooks (155 × 100 mm) are bound in brown leather with brass clasps. Unlike the preceding types they open along the long side like a book, rather than lengthways like a pocket book. Only *Santiago* opens in the same manner. The notebooks were 244 pages long. The end papers and page edges are marbled. Some pages bear the watermark 'W. Brookman 1828'.

⁶ *Red notebook*, p. 5. In Barrett *et al.* 1987, p. 17, the notebook is described as 'bound in red leather'.

⁷ See for example DAR 29.3.9, DAR 36.436–7 and the *Red notebook*.



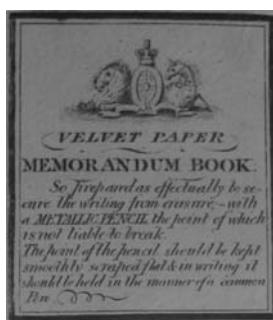
Pages 4a–5a of the St. Fe notebook.

Type 4: Port Desire

This long and rectangular (170 × 130 mm) notebook is bound in brown leather with floral embossed borders and brass clasp. Its original back cover was missing (probably the one referred to by Barlow 1945, p. 154) but has since been carefully restored with a new one. The last page of the notebook, p. 137, is heavily soiled where it was thus exposed. There were originally 146 pages, some of which bear incomplete watermarks which seem to read 'John Morbey 1830'.

Type 5: Valparaiso, Galapagos, Coquimbo, Copiapò, Despoblado and Sydney

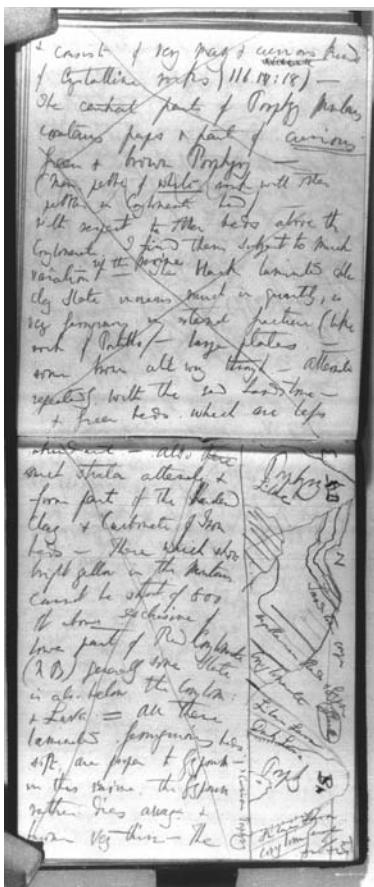
These six 'Velvet paper memorandum' notebooks are bound in red or black leather (the first and last are black) with the borders blind embossed and with brass clasps. Integral pencil holding sleeves, extensions of the cover leather as in Type 1, are placed on the left inside of the front cover. The paper is yellow edged except for Sydney (Galapagos is unknown). The notebooks are of an almost square shape varying from 90 × 75 to 120 × 100 mm and were between 100 and 140 pages



Label from a 'Velvet paper memorandum book'.

long. This makes Type 5 the most variable of the *Beagle* notebooks. The inside front covers bear printed labels surmounted by an engraved lion and unicorn.⁸

The pages of these notebooks were treated or coated to react with the metallic pencils, now lost. The paper remains bright white and has a silky or velvety feel. Although the writing in these books looks at first like graphite pencil it is in fact a reaction between the metal of the pencil tip and the chemicals with which the paper was treated. This rendered the writing indelible.⁹ Occasionally some notebooks of other types (with untreated paper) have very faint writing which are almost uncoloured scratches which may be from the metallic pencils.



Pages 36–7 of the *Copiapó* notebook.

⁸ The printed labels are all identical. The label depicted throughout this volume is from the *Coquimbo* notebook.

⁹ We are grateful to Louise Foster (personal communication) for useful insights on metallic pencils and for supplying us with various types of treated paper and metallic pencils.

Type 6: *Santiago*

This 100 × 165 mm notebook is bound in black paper with black leather spine and was originally 138 pages long. Four pencil holder loops, dovetailed along the opposite cover edges, held the notebook closed when a pencil was inserted. This is not seen on any other *Beagle* notebook. The inside covers are green paper. Inside the front cover there is a collapsing pocket. The manufacturer's label shows that the notebook was made in France, unlike all of the other *Beagle* field notebooks. As will be argued below, *Santiago* was used after the voyage and is labelled identically on both sides as is the *Red notebook* and the transmutation and expression notebooks, a post-voyage notebook labelling practice.

We are not aware of any other Darwin notebooks which match any of these field notebook types. Notebooks 1.1, *St. Helena Model*, the specimen notebooks and all other post voyage notebooks are different types. Some of the *Beagle* notebooks, such as *St. Fe* and *Valparaiso*, have long fine, almost parallel, knife cuts on their covers. These may be where Darwin sharpened his pen or otherwise cut something on the notebooks. Possibly he used them in excising pages from other notebooks. The cuts were made before the notebooks were labelled. It is unknown when Darwin labelled the *Beagle* notebooks, but it was clearly after they were completed, and not all at once as he used different versions of place names, such as 'Isle of France' on the label of the *Despoblado notebook* but 'Mauritius' on the label of the *Sydney notebook*.

The appearance of the notebooks today is less battered and frayed than they were when Nora Barlow first described them in 1933. The 1969 microfilm images reveal flaps of torn leather on their covers and in one case (*Port Desire*) a back cover torn off. The edges of some of the leather covers were worn away. The notebooks have since been carefully conserved so that they appear in rather better condition than when they returned from the *Beagle* voyage. The *Falkland*, *St. Fe*, *Banda Oriental* and *Port Desire* notebooks, for example, have had missing pieces of their leather bindings restored.

Editorial policy

The *Beagle* field notebooks are arguably the most complex and difficult of all of Darwin's manuscripts. They are for the most part written in pencil which is often faint or smeared. They were generally not written while sitting at a desk but held in one hand, on mule or horseback or on the deck of the *Beagle*. Furthermore the lines are very short and much is not written in complete sentences. Added to this they are full of Darwin's chaotic spelling of foreign names and cover an enormous range of subjects. Therefore the handwriting is sometimes particularly difficult to decipher. Alternative readings are often possible. Some illegible words are transcribed as well as possible, even when they are obviously not the correct word, when this seems more informative than just listing the word as illegible.

In the transcriptions we have strictly followed Darwin's spelling and punctuation in so far as these could be determined. The transcribed text follows as closely as possible the layout of the notebooks, although no attempt is made to produce a type-facsimile of the manuscript; word-spacing and line-division in the running text are not reproduced. Editorial interpolations in the text are enclosed in square brackets. The page numbers assigned to the notebooks are in square brackets in the margin at the start of the page to which they refer. Italic square brackets enclose conjectured readings and descriptions of illegible passages. Darwin's use of the f or long s (appearing as the first 's' of a double 's'), has been silently modernized. Darwin used an unusual backwards question mark (?) which might be based on the Spanish convention of preceding a question with an inverted question mark (:) .¹⁰

Textual notes are given at the end of each notebook. The notebooks are almost entirely written in pencil. Where ink was used instead this is indicated in the textual notes. Brown ink was used except where otherwise indicated. Pencil text that was later overwritten with ink is represented in bold font.

The length, complexity and need to refer to the textual notes has been minimized by representing some of the features of the original manuscripts typographically.¹¹ Words underlined by Darwin are printed underlined rather than given in italics. Text that is underlined more than three times is double underlined and bold. (There are no instances of such entries also overwritten in ink.) Text that was circled or boxed by Darwin is printed as boxed. Also text that appears to have been struck through at the time of writing is printed as struck through text. Darwin's insertions and interlineations have been silently inserted where he indicated or where we have judged appropriate.

Paragraphs are problematic; often Darwin ran all of his entries together across the page to save space. We have made a new paragraph when there was sufficient space at the end of the preceding line to have continued there. We have silently added a paragraph break wherever Darwin made a line across the page, apparently at the time of writing, or short double scores between lines separating blocks of text. When long strings of notes are separated with stops or colons and dashes we have left these as written by Darwin.

We have ignored all later scoring through of lines, paragraphs and pages in the interest of readability. Virtually every page and paragraph is scored through, often several times, indicating that Darwin had made use of the material.¹² It has been our aim to make Darwin's notebooks widely accessible and readable, as well as a scholarly edition.

¹⁰ These marks seem to be present in his c. 1827 notes (DAR 91.115v) on reading John Bird Sumner's, *The evidence of Christianity*, see van Wyhe 2008b.

¹¹ Sandra Herbert adopted a similar approach in the *Red notebook*.

¹² As photographs of the manuscripts are due to be made available online by English Heritage, this should provide all the information on scoring that any scholar might need.

Finally, and perhaps most importantly, the field notebooks are quite different from all of Darwin's other notebooks, except the Glen Roy field notebook of 1838 (DAR 118), in that they all contain diagrams or sketches. With the exception of a small number of apparently meaningless cross-hatches and doodles, we include photographs of all of these drawings in the transcriptions.¹³ To assist the reader the writing contained in these drawings is also transcribed and the sketches turned to the horizontal when necessary. We have provided captions to those that have been identified and which are not already captioned by Darwin or which do not appear to be self explanatory.

Some of the notebooks, notably *St. Fe*, are abundantly illustrated with geological sections which Darwin was able later to 'stitch together', via various intermediate copies, now preserved in the Darwin Archive at Cambridge University Library, into the versions he published in the three works which comprised his *Geology of the Beagle*.¹⁴ Of at least equal interest are the far fewer but equally informative sketches of animals, apparently in some cases having been dissected, and the occasional crude diagram of human interest, such as the floor plan of a house, a tiny drawing of the *Beagle*, and a self-portrait of Darwin as a 'stick man' on the cliffs of St Helena.

With one partial exception, Darwin did not number the pages of the notebooks, and often wrote in them at different times from opposite ends. This edition therefore uses an 'a, b' page numbering system. When a notebook was used starting from opposite ends the pages written from the front cover are labelled 'a', and pages written from the back cover are labelled 'b'. In order to make the transcriptions readable the second sequence, starting with the back cover, is placed immediately after the end of the first sequence. With the original manuscript it is necessary to turn the notebook around and begin reading from the other end. Most of the notebooks have brass clasps and we use the convention of referring to the cover with the hinge attached as the back cover.

Many persons, places and publications are recorded in the notebooks which appear in no other Darwin manuscripts. To make the notebooks more accessible explanatory footnotes are provided. The notes identify persons referred to in the text and references to publications as well as technical terms or particular specimens when these could be readily identified in Darwin's other *Beagle* records. Technical terms are usually defined at their first occurrence or where necessary to clarify Darwin's meaning. The definitions are mostly intended for the general reader. Darwin used some rather outdated geological terms (for example as used by Alexander von Humboldt (1769–1859)) but for definitions he probably started to use those in Lyell's *Principles of geology*, vol. 3 (1833), which Darwin had with him on the voyage

13 Only some of the photographs could be supplied by English Heritage in time, therefore other images are taken, with permission, from reference photographs and microfilm.

14 This aspect of CD's 'visual language of geology' has been analysed by Stoddart 1995 and Herbert 2005.

after mid 1834. For more detailed discussion of Darwin's petrological (i.e. rock) terms see Pearson 1996. For zoological names and terms see *Zoology notes*, for ornithology Steinheimer 2004, for insects *Darwin's insects* and for botany *Beagle plants*. As these works have shown, Darwin used the European Latin names for animals and plants he encountered which reminded him of European species. He also used local names. Publications are given as 'author date', but given in full in the bibliography. Short titles are used for references to Darwin's books and articles and some of the standard works on Darwin, as cited in the *Correspondence*. Persons are identified fully at first occurrence and only subsequently if clarity is required. More detailed information about most of these individuals can be found in the Biographical Register in the *Correspondence*, now helpfully made available as an online database.

Content

Summarizing the content of the notebooks in a few paragraphs is not only impossible, but also rather pointless since Barlow 1945 provided an unsurpassably engaging précis. Even Barlow at times had to admit defeat in trying to convey an impression of the hundreds of pages of geological descriptions, diagrams and speculations which fill great swathes of the notebooks, especially those used during 1834 and 1835. A series of quotations, in more or less chronological order, suggests the potential of the notebooks:

- 'Solitude on board enervating heat comfort: hard to look forward pleasures in prospect: do not wish for cold night delicious sea calm sky not blue' *Cape de Verds notebook*, p. 46b.
- 'Lofty trees white holes the pleasure of eating my lunch on one of the rotten trees — — so gloomy that only shean of higher enters the profound.' *Cape de Verds notebook*, p. 85b.
- 'twiners entwining twiners. tresses like hair beautiful lepidoptera. silence hosannah' *Rio notebook*, p. 27b.
- 'View at first leaving Rio sublime, picturesque intense colours blue prevailing tint — large plantations of sugar & rustling coffee: Mimosa natural veil' *Rio notebook*, p. 2a
- 'always think of home' *Buenos Ayres notebook*, p. 4b.
- 'The gauchos ... look as if they would cut your throat & make a bow at same time' *Falkland notebook*, p. 34a.
- 'nobody knows pleasure of reading till a few days of such indolence' *B. Blanca notebook*, p. 12a.
- 'Most magnificently splendid the view of the mountains' *Valparaiso notebook*, p. 78a.
- 'Rode down to Port — miserable rocky desert' *Copiapò notebook*, p. 14a.
- 'But every thing exceeded by ladies, like mermaids, could not keep eyes away from them' *Galapagos notebook*, p. 18a.

The notebooks are of variable length. There are a small number of entries (mainly notes and drawings) which, although contemporary, are not in Darwin's

handwriting.¹⁵ The fine sketch of the Baobab tree in *Cape de Verds*, p. 5a, is almost certainly by Robert FitzRoy (1805–65), the *Beagle*'s Commander. A small number of faint coastline sketches may also be by others. The last line of the inside back cover and p. 1b of the *B. Blanca notebook* are in FitzRoy's handwriting. A few faint numbers and letters on the labels could be later additions, but it seems impossible to determine when they were written.

	Pages	Words	/per page	Sketches	Blank	Excised
<i>Cape de Verds</i>	112	3,660	33	20	0	2
<i>Rio</i>	106	4,340	41	13	0	16
<i>Buenos Ayres</i>	106	5,600	53	12	3	2
<i>Falkland</i>	180	11,150	62	10	25	2
<i>B. Blanca</i>	104	6,250	60	12	10	1
<i>St. Fe</i>	234	22,130	95	47	2	11
<i>Banda Oriental</i>	242	9,250	38	8	130	2
<i>Port Desire</i>	180	7,670	43	44	49	2
<i>Valparaiso</i>	104	5,250	51	5	0	2
<i>Santiago</i>	140	8,370	60	6	2	12
<i>Galapagos</i>	100	3,610	36	4	0	2
<i>Coquimbo</i>	136	11,330	83	20	0	0
<i>Copiapò</i>	102	8,040	79	12	39	4
<i>Despoblado</i>	136	6,300	46	20	19	14
<i>Sydney</i>	88	3,130	36	10	10	2
Mean						
Totals:	2,070	116,080	53	241	289	74

Darwin's use of the notebooks gradually changed throughout the voyage. There is a symmetry to the density of entries as they gradually became lengthier during the first year of the voyage, reached a plateau in the middle years, then tailed off in the last year. The first three notebooks gradually get longer, then there is a large increase in the *Falkland notebook* which is not only almost twice as long as its predecessors but for the first time is routinely used for lengthy descriptions. Darwin maintained this *Falkland* style of use through the three South American years of the voyage, but it 'spiked' quite extraordinarily in the *St. Fe notebook* of which the majority dates from early 1835. *St. Fe* is seven times longer than the two shortest notebooks, which are those used at the beginning and end of the voyage. The daily rate of notebook entries dropped after Darwin left South America.

The *Santiago notebook* was used at the same time as *St. Fe* and seems to mark a new development in Darwin's note-taking. In *Santiago* for the first time Darwin started to separate his theoretical notes from his more observational notes and kept *Santiago* for theory, also using the exclusively theoretical *Red notebook* from May 1836.

15 Modern additions such as institutional accession numbers are given in the textual notes.

Previous scholars have assumed not only that the use of *Santiago* ceased when the *Red notebook* began, but that the transition from field notes to theory notes is to be seen in the *Red notebook* whereas we believe it is in *Santiago*.

Each notebook is provided with an individual introduction which is intended to assist the general reader to understand what Darwin was doing during the parts of the voyage when the notebook was in use. To facilitate comparing the notebooks with other Darwin manuscripts, such as the *Beagle diary* or *Correspondence*, place names used by Darwin are followed. When this differs from the present-day name, the latter is provided in square brackets on first mention.

The *Beagle diary*, *Correspondence* and other *Beagle* manuscripts, such as the *Zoology notes*, overlap with the notebooks. Citing them on every date in the notebooks would be cumbersome. It is essential to consult these works frequently when reading the *Beagle* notebooks.

Although there can be no substitute for reading the notebooks themselves, the introductions provide an overview of Darwin's scientific development during the voyage. The earlier introductions set the scene and introduce key scientific issues in Darwin's scientific context. As the voyage progresses the introductions become more detailed as Darwin climbed metaphorically and physically into higher and higher realms of geology.

While the notebooks are overwhelmingly geological they also record Darwin's field work in botany and zoology. Particular attention is given in the introductions to Darwin's gradual accumulation of evidence that something was wrong with current views concerning the 'death' and 'birth' of species, even when this evidence is only faintly recorded in the notebooks. Our discussion culminates with Darwin's realization, recorded in the *Galapagos notebook*, that the land birds in the Galapagos were American types, implying an historical origin on the mainland rather than a special local creation to suit volcanic island conditions.

Darwin published his *Journal of researches* from the voyage in 1839, and until 1846, ten years after his return home, continued to publish his results from the *Beagle* voyage. Much of his later scientific career was an extension of the work he carried out during the voyage. Nora Barlow published *Charles Darwin's diary of the voyage of H. M. S. Beagle* in 1933 and many of his voyage letters with extracts from his field notebooks in 1945. It is our hope that, by now presenting his field notebooks in their entirety, it will be possible for the reader to see, for the first time, the full range of Darwin's activities during the voyage of the *Beagle*. The notebooks, read alongside Darwin's other published records from the voyage, provide an unparalleled opportunity to study the intellectual development of arguably the most influential naturalist who ever lived.

A very important contribution to the literature on Darwin's work in Argentina, a special edition of *Revista de la Asociacion Geologica Argentina* 64, No. 1 (February 2009), appeared after this volume was going to press. Therefore it was unfortunately not possible to utilise this new research (helpfully published in English) in this book.

NOTE ON THE TEXT



Transcription conventions

[some text] ‘some text’ is an editorial insertion

{some text} ‘some text’ is the conjectured reading of an ambiguous word or passage

/some text/ ‘some text’ is a description of a word or passage that cannot be transcribed, e.g. /3 words illeg/

< > word(s) destroyed

<some text> ‘some text’ is a description of a destroyed word or passage,
e.g. <3 lines excised>

Editors’ abbreviations

BC: back cover

CD: Charles Darwin

CUL: Cambridge University Library

DAR: Darwin Archive, Cambridge University Library

EH: English Heritage (Down House Collection)

FC: front cover

IBC: inside back cover

IFC: inside front cover

illeg: one word illegible

Symbols used by Darwin

∴ therefore

∠ angle

∠^r angular

Abbreviations used by Darwin

do ditto

P.B. Porphyritic Breccia

V vide

mem memorandum

CHRONOLOGICAL REGISTER



By Kees Rookmaaker

H. M. S. *Beagle* left England on 27 December 1831 and returned 2 October 1836, on 1741 days later.¹⁰⁵⁰ This chronology supersedes all previous itineraries of the voyage. The nights Darwin spent on board or on land have been calculated using the *Beagle diary*, and for the nights on land, which territories he visited. Darwin stayed ashore for some days when the *Beagle* was travelling elsewhere. According to these calculations, Darwin had the following itinerary.

At sea	581 days or 33.3 %
At anchor	566 days or 32.6 %
On land	594 days or 34.1 %

Darwin's nights on board the *Beagle*:¹⁰⁵¹ 1145 nights or 65.8 %.

Darwin's nights on land: 596 nights or 34.2 % (955 nights, or 55%, were spent in South America).

Darwin spent his nights in the following territories, either on land or on the *Beagle* at anchor. Nights on board the *Beagle* while traversing coastal waters are not included.

Cape de Verds	27 days	New Zealand	9 days
Brazil	126 days	Australia	38 days
Banda Oriental	156 days	Keeling	11 days
Argentina	222 days	Mauritius	10 days
Falklands	64 days	Cape of Good Hope	18 days
Chile	375 days	Ascension	4 days
Peru	51 days	St Helena	6 days
Galapagos	25 days	Azores	6 days
Tahiti	10 days		

1050 Monday 16 November 1835 did not exist due to crossing the international dateline. Barlow 1967, appendix VI (pp. 241–3) gave a list of sections of the journey, stating the number of days at sea and on land. When the days are added up (with a month taken as 31 days), the totals are: 533 days at sea, 1147 on land, total 1680 days. Hence the total is 61 days less than the correct total. Barlow calculated the period 28 April to 23 July 1833 as 56 days, which should be 87 days. And the period 29 January to 7 March 1834 as 9 days, which should be 32 days. In both cases a month was missed.

1051 When CD spent a day on land but was on board at night, the date is calculated as being on board, with the *Beagle* probably in harbour.

The *Beagle* field notebooks contain references to c. 474 days or 26 % of the journey. These are listed chronologically below.

Date	Notebook/page	Locality
18 January 1832	<i>Cape de Verds notebook</i> : 15b	Praia, St Jago
20 January 1832	<i>Cape de Verds notebook</i> : 24b	Praia, St Jago
23 January 1832	<i>Cape de Verds notebook</i> : 31b	Signal Post Hill, St Jago
26 January 1832	<i>Cape de Verds notebook</i> : 34b	Ribera Grande, St Jago
02 February 1832	<i>Cape de Verds notebook</i> : 36b	St Domingo, St Jago
03 February 1832	<i>Cape de Verds notebook</i> : 38b	Praia, St Jago
20 February 1832	<i>Cape de Verds notebook</i> : 44b	Fernando Noronha
25 February 1832	<i>Cape de Verds notebook</i> : 46b	Quail Island, St Jago
29 February 1832	<i>Cape de Verds notebook</i> : 56b	Bahia, Brazil
03 March 1832	<i>Cape de Verds notebook</i> : 62b	Bahia, Brazil
05 March 1832	<i>Cape de Verds notebook</i> : 63b	Bahia, Brazil
13 March 1832	<i>Cape de Verds notebook</i> : 68b	Bahia, Brazil
14 March 1832	<i>Cape de Verds notebook</i> : 70b	Bahia, Brazil
15 March 1832	<i>Cape de Verds notebook</i> : 72b	Bahia, Brazil
21 March 1832	<i>Cape de Verds notebook</i> : 73b	Bahia–Rio de Janeiro
23 March 1832	<i>Cape de Verds notebook</i> : 73b	Bahia–Rio de Janeiro
27 March 1832	<i>Cape de Verds notebook</i> : 13a, 14a, 15a	Abrolhos Islets
28 March 1832	<i>Cape de Verds notebook</i> : 16a	Abrolhos Islets
29 March 1832	<i>Cape de Verds notebook</i> : 74b	Abrolhos Islets
08 April 1832	<i>Rio notebook</i> : 1b	Excursion to Rio Macae
09 April 1832	<i>Rio notebook</i> : 4b	Mandetiba Ingetado
10 April 1832	<i>Rio notebook</i> : 9b	Campos Novos
11 April 1832	<i>Rio notebook</i> : 12b	Venda da Matto
12 April 1832	<i>Rio notebook</i> : 14b	Socego
13 April 1832	<i>Rio notebook</i> : 20b	Socego
14 April 1832	<i>Rio notebook</i> : 21b	Lennon's estate
15 April 1832	<i>Rio notebook</i> : 21b	Lennon's estate
16 April 1832	<i>Rio notebook</i> : 26b	Socego
17 April 1832	<i>Rio notebook</i> : 27b	Socego
18 April 1832	<i>Rio notebook</i> : 30b	Socego
19 April 1832	<i>Rio notebook</i> : 31b	Venda de Matto
20 April 1832	<i>Rio notebook</i> : 32b	Campos Novos
21 April 1832	<i>Rio notebook</i> : 32b	Rio Combota
22 April 1832	<i>Rio notebook</i> : 34b	Fregueria de Tabarai
23 April 1832	<i>Rio notebook</i> : 38b	Praia Grande
24 April 1832	<i>Rio notebook</i> : 38b	Rio de Janeiro
26 April 1832	<i>Rio notebook</i> : 39b	Rio de Janeiro
27 April 1832	<i>Rio notebook</i> : 39b	Rio de Janeiro
28 April 1832	<i>Rio notebook</i> : 40b	Rio de Janeiro
29 April 1832	<i>Rio notebook</i> : 40b	Rio de Janeiro

Date	Notebook/page	Locality
30 April 1832	<i>Rio notebook</i> : 41b	Rio de Janeiro
01 May 1832	<i>Rio notebook</i> : 41b	Rio de Janeiro
09 May 1832	<i>Cape de Verds notebook</i> : 77b	Rio de Janeiro
15 May 1832	<i>Cape de Verds notebook</i> : 78b	Rio de Janeiro
19 May 1832	<i>Cape de Verds notebook</i> : 78b	Rio de Janeiro
27 May 1832	<i>Cape de Verds notebook</i> : 18a	Rio de Janeiro
30 May 1832	<i>Cape de Verds notebook</i> : 19a	Rio de Janeiro (Corcovado)
02 June 1832	<i>Cape de Verds notebook</i> : 81b	Rio de Janeiro
05 June 1832	<i>Cape de Verds notebook</i> : 24a	Rio de Janeiro
07 June 1832	<i>Cape de Verds notebook</i> : 26a	Rio de Janeiro
10 June 1832	<i>Cape de Verds notebook</i> : 84b	Rio de Janeiro
16 June 1832	<i>Rio notebook</i> : 41b	Rio de Janeiro
05 July 1832	<i>Rio notebook</i> : 47a	Rio de Janeiro–Monte Video
06 July 1832	<i>Rio notebook</i> : 47a	Rio de Janeiro–Monte Video
07 July 1832	<i>Rio notebook</i> : 47a	Rio de Janeiro–Monte Video
08 July 1832	<i>Rio notebook</i> : 47a	Rio de Janeiro–Monte Video
09 July 1832	<i>Rio notebook</i> : 47a	Rio de Janeiro–Monte Video
14 July 1832	<i>Rio notebook</i> : 48a	Rio de Janeiro–Monte Video
15 July 1832	<i>Rio notebook</i> : 49a	Rio de Janeiro–Monte Video
16 July 1832	<i>Rio notebook</i> : 49a	Rio de Janeiro–Monte Video
18 July 1832	<i>Rio notebook</i> : 50b	Rio de Janeiro–Monte Video
15 August 1832	<i>Rio notebook</i> : 59a	Monte Video
22 September 1832	<i>Rio notebook</i> : 62a	Bahia Blanca
02 October 1832	<i>Rio notebook</i> : 67a	Bahia Blanca
06 October 1832	<i>Rio notebook</i> : 70a	Bahia Blanca
01 November 1832	<i>Buenos Ayres notebook</i> : 4b	Monte Video–Buenos Ayres
02 November 1832	<i>Buenos Ayres notebook</i> : 4b	Buenos Ayres, Argentina
03 November 1832	<i>Buenos Ayres notebook</i> : 5b	Buenos Ayres
04 November 1832	<i>Buenos Ayres notebook</i> : 6a	Buenos Ayres
05 November 1832	<i>Buenos Ayres notebook</i> : 6a	Buenos Ayres
06 November 1832	<i>Buenos Ayres notebook</i> : 7a	Buenos Ayres
07 November 1832	<i>Buenos Ayres notebook</i> : 7a	Buenos Ayres
19 December 1832	<i>Rio notebook</i> : 20a	Good Success Bay, Tierra del Fuego
20 December 1832	<i>Rio notebook</i> : 19a	Good Success Bay
19 January 1833	<i>Buenos Ayres notebook</i> : 14a	Navarin Island
20 January 1833	<i>Buenos Ayres notebook</i> : 18a	Navarin Island
21 January 1833	<i>Buenos Ayres notebook</i> : 21a	Navarin Island
22 January 1833	<i>Buenos Ayres notebook</i> : 25a	Ponsonby Sound
23 January 1833	<i>Buenos Ayres notebook</i> : 27a	Ponsonby Sound
24 January 1833	<i>Buenos Ayres notebook</i> : 32a	Ponsonby Sound
25 January 1833	<i>Buenos Ayres notebook</i> : 34a	Ponsonby Sound
26 January 1833	<i>Buenos Ayres notebook</i> : 38a	Ponsonby Sound
27 January 1833	<i>Buenos Ayres notebook</i> : 40a	Ponsonby Sound

Date	Notebook/page	Locality
28 January 1833	<i>Buenos Ayres notebook</i> : 46a	Ponsonby Sound
29 January 1833	<i>Buenos Ayres notebook</i> : 51a	Tierra del Fuego
30 January 1833	<i>Buenos Ayres notebook</i> : 55a	Darwin Sound
31 January 1833	<i>Buenos Ayres notebook</i> : 59a	Tierra del Fuego
01 February 1833	<i>Buenos Ayres notebook</i> : 62a	Tierra del Fuego
02 February 1833	<i>Buenos Ayres notebook</i> : 64a	Whaleboat Sound
03 February 1833	<i>Buenos Ayres notebook</i> : 66a	Tierra del Fuego
04 February 1833	<i>Buenos Ayres notebook</i> : 68a	Tierra del Fuego
05 February 1833	<i>Buenos Ayres notebook</i> : 72a	Tierra del Fuego
06 February 1833	<i>Buenos Ayres notebook</i> : 73a	Ponsonby Sound
07 February 1833	<i>Buenos Ayres notebook</i> : 78a	Goree Sound (Navarin Island)
16 February 1833	<i>Falkland notebook</i> : 5a	Hardy Peninsula
02 March 1833	<i>Falkland notebook</i> : 8a	Port Louis, East Falkland
06 March 1833	<i>Falkland notebook</i> : 9a	Port Louis, East Falkland
09 March 1833	<i>Falkland notebook</i> : 10a	Port Louis, East Falkland
12 March 1833	<i>Falkland notebook</i> : 12a	Port Louis, East Falkland
19 March 1833	<i>Falkland notebook</i> : 13a	Port Louis, East Falkland
20 March 1833	<i>Falkland notebook</i> : 16a	Port Louis, East Falkland
21 March 1833	<i>Falkland notebook</i> : 20a	Port Louis, East Falkland
22 March 1833	<i>Falkland notebook</i> : 22a	Port Louis, East Falkland
25 March 1833	<i>Falkland notebook</i> : 25a	Port Louis, East Falkland
28 March 1833	<i>Falkland notebook</i> : 26a	Port Louis, East Falkland
06 April 1833	<i>Falkland notebook</i> : 27a	Patagonian coast, Argentina
09 April 1833	<i>Falkland notebook</i> : 27a	Patagonian coast
17 April 1833	<i>Falkland notebook</i> : 28a	St Josephs Bay
10 May 1833	<i>Falkland notebook</i> : 35a	To Las Minas
11 May 1833	<i>Falkland notebook</i> : 38a	House of Don Juan Fuentes
12 May 1833	<i>Falkland notebook</i> : 43a	Las Tapas on Rio Marmaraga
13 May 1833	<i>Falkland notebook</i> : 45a	North of the Rio Polanco
14 May 1833	<i>Falkland notebook</i> : 48a, 3b	Las Tapas on Rio Marmaraga
15 May 1833	<i>Falkland notebook</i> : 54a, IBC	Las Tapas on Rio Marmaraga
16 May 1833	<i>Falkland notebook</i> : 56a	Las Minas
17 May 1833	<i>Falkland notebook</i> : 59a	Near Las Minas
18 May 1833	<i>Falkland notebook</i> : 64a	House of Sebastian de Pimiento
19 May 1833	<i>Falkland notebook</i> : 68a	House of Sebastian de Pimiento
20 May 1833	<i>Falkland notebook</i> : 73a	Maldonado
31 May 1833	<i>Falkland notebook</i> : 76a	Maldonado
02 August 1833	<i>Falkland notebook</i> : 88a	Maldonado to Rio Negro
03 August 1833	<i>Falkland notebook</i> : 88a	Rio Negro
04 August 1833	<i>Falkland notebook</i> : 87a, 89a	Rio Negro
05 August 1833	<i>Falkland notebook</i> : 87a	Carmen de Patagones
06 August 1833	<i>Falkland notebook</i> : 94a	Rio Negro
07 August 1833	<i>Falkland notebook</i> : 94a	Rio Negro
08 August 1833	<i>Falkland notebook</i> : 96a	Rio Negro

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09 August 1833	<i>Falkland notebook</i> : 105a	Rio Negro
10 August 1833	<i>Falkland notebook</i> : 106a	Rio Negro
11 August 1833	<i>Falkland notebook</i> : 109a	Rio Negro–Bahia Blanca
12 August 1833	<i>Falkland notebook</i> : 111a	Rio Negro–Bahia Blanca
13 August 1833	<i>Falkland notebook</i> : 112a	Rio Colorado
14 August 1833	<i>Falkland notebook</i> : 114a	Rio Colorado
15 August 1833	<i>Falkland notebook</i> : 115a	Rio Colorado
16 August 1833	<i>Falkland notebook</i> : 116a	Rio Colorado
17 August 1833	<i>Falkland notebook</i> : 120a	Bahia Blanca
18 August 1833	<i>Falkland notebook</i> : 124a	Bahia Blanca
19 August 1833	<i>Falkland notebook</i> : 125a	Bahia Blanca
20 August 1833	<i>Falkland notebook</i> : 125a	Bahia Blanca
21 August 1833	<i>Falkland notebook</i> : 126a	Bahia Blanca
22 August 1833	<i>Falkland notebook</i> : 129a	Bahia Blanca
23 August 1833	<i>Falkland notebook</i> : 130a	Bahia Blanca
24 August 1833	<i>Falkland notebook</i> : 139a	Bahia Blanca
25 August 1833	<i>Falkland notebook</i> : 139a	Bahia Blanca
26 August 1833	<i>Falkland notebook</i> : 141a	Bahia Blanca
27 August 1833	<i>Falkland notebook</i> : 142a	Bahia Blanca
28 August 1833	<i>Falkland notebook</i> : 143a	Bahia Blanca
29 August 1833	<i>B. Blanca notebook</i> : 1a, 3a	Bahia Blanca (Punta Alta)
30 August 1833	<i>B. Blanca notebook</i> : 4a	Bahia Blanca
31 August 1833	<i>B. Blanca notebook</i> : 4a	Bahia Blanca (Punta Alta)
01 September 1833	<i>B. Blanca notebook</i> : 7a	Bahia Blanca
02 September 1833	<i>B. Blanca notebook</i> : 11a	Bahia Blanca
03 September 1833	<i>B. Blanca notebook</i> : 12a	Bahia Blanca
04 September 1833	<i>B. Blanca notebook</i> : 12a	Bahia Blanca
05 September 1833	<i>B. Blanca notebook</i> : 15a	Bahia Blanca
06 September 1833	<i>B. Blanca notebook</i> : 26a	Bahia Blanca
07 September 1833	<i>B. Blanca notebook</i> : 27a	Bahia Blanca
08 September 1833	<i>B. Blanca notebook</i> : 29a	Foot of Sierra
09 September 1833	<i>B. Blanca notebook</i> : 38a	Foot of Sierra
10 September 1833	<i>B. Blanca notebook</i> : 44a	Sauce Posta
11 September 1833	<i>B. Blanca notebook</i> : 45a	Third Posta
12 September 1833	<i>B. Blanca notebook</i> : 48a	Third Posta
13 September 1833	<i>B. Blanca notebook</i> : 53a	Third Posta
14 September 1833	<i>B. Blanca notebook</i> : 54a	Between 3rd and 4th Posta
15 September 1833	<i>B. Blanca notebook</i> : 55a	5th Posta
16 September 1833	<i>B. Blanca notebook</i> : 57a	8th Posta
17 September 1833	<i>B. Blanca notebook</i> : 60a	10th Posta
18 September 1833	<i>B. Blanca notebook</i> : 63a	12th Posta, south of Rio Salada
19 September 1833	<i>B. Blanca notebook</i> : 65a	Guardia del Monte
20 September 1833	<i>B. Blanca notebook</i> : 67a	Buenos Ayres (Mr Lumb)
21 September 1833	<i>B. Blanca notebook</i> : 68a	Buenos Ayres (Mr Lumb)

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27 September 1833	<i>St. Fe notebook</i> : 9a	Near Luxan
28 September 1833	<i>St. Fe notebook</i> : 9a	Arrecife River
29 September 1833	<i>St. Fe notebook</i> : 11a	St Nicholas
30 September 1833	<i>St. Fe notebook</i> : 12a	Colegio de St Carlos
01 October 1833	<i>St. Fe notebook</i> : 16a	Near Monge River
02 October 1833	<i>St. Fe notebook</i> : 19a	Santa Fe
03 October 1833	<i>St. Fe notebook</i> : 22a	Santa Fe
04 October 1833	<i>St. Fe notebook</i> : 23a	Santa Fe
05 October 1833	<i>St. Fe notebook</i> : 23a	Rio Parana
06 October 1833	<i>St. Fe notebook</i> : 25a	Rio Parana
07 October 1833	<i>St. Fe notebook</i> : 28a	Rio Parana
08 October 1833	<i>St. Fe notebook</i> : 31a	Rio Parana
09 October 1833	<i>St. Fe notebook</i> : 32a	Rio Parana
10 October 1833	<i>St. Fe notebook</i> : 32a	Rio Parana
11 October 1833	<i>St. Fe notebook</i> : 36a	Rio Parana
12 October 1833	<i>St. Fe notebook</i> : 37a	On boat to Buenos Ayres
13 October 1833	<i>St. Fe notebook</i> : 38a	On boat to Buenos Ayres
14 October 1833	<i>St. Fe notebook</i> : 39a	On boat to Buenos Ayres
15 October 1833	<i>St. Fe notebook</i> : 40a	On boat to Buenos Ayres
16 October 1833	<i>St. Fe notebook</i> : 42a	On boat to Buenos Ayres
17 October 1833	<i>St. Fe notebook</i> : 44a	On boat to Buenos Ayres
18 October 1833	<i>St. Fe notebook</i> : 45a	On boat to Buenos Ayres
19 October 1833	<i>St. Fe notebook</i> : 47a	On boat to Buenos Ayres
20 October 1833	<i>St. Fe notebook</i> : 49a	Near Punta de St Fernando
21 October 1833	<i>St. Fe notebook</i> : 50a	Buenos Ayres
02 November 1833	<i>St. Fe notebook</i> : 55a	Boat (Packet) to Monte Video
03 November 1833	<i>St. Fe notebook</i> : 55a	Boat (Packet) to Monte Video
04 November 1833	<i>St. Fe notebook</i> : 55a	Monte Video
05 November 1833	<i>St. Fe notebook</i> : 55a	Monte Video
06 November 1833	<i>St. Fe notebook</i> : 56a	Monte Video
14 November 1833	<i>Banda Oriental notebook</i> : 5	Canelones
15 November 1833	<i>Banda Oriental notebook</i> : 5	Post house of Cufrè
16 November 1833	<i>Banda Oriental notebook</i> : 6	Post house of Cufrè
17 November 1833	<i>Banda Oriental notebook</i> : 6	Colonia del Sacramento
18 November 1833	<i>Banda Oriental notebook</i> : 9	Arroyo de St Juan
19 November 1833	<i>Banda Oriental notebook</i> : 15	Arroyo de las Vivoras
20 November 1833	<i>Banda Oriental notebook</i> : 17	At a Rancho
21 November 1833	<i>Banda Oriental notebook</i> : 23	At a Rancho
22 November 1833	<i>Banda Oriental notebook</i> : 26	Estancia of the Berquelo
23 November 1833	<i>Banda Oriental notebook</i> : 27	Mercedes, Capella Nueva
24 November 1833	<i>Banda Oriental notebook</i> : 30	Mercedes, Capella Nueva
25 November 1833	<i>Banda Oriental notebook</i> : 32	Mercedes, Capella Nueva
26 November 1833	<i>Banda Oriental notebook</i> : 33	Return to Monte Video
27 November 1833	<i>Banda Oriental notebook</i> : 35	San Jose de Mayo

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28 November 1833	<i>Banda Oriental notebook</i> : 35	Monte Video
27 December 1833	<i>Buenos Ayres notebook</i> : 87a	Port Desire
29 December 1833	<i>Buenos Ayres notebook</i> : 88a	Creek near Port Desire
02 January 1834	<i>Port Desire notebook</i> : 3	Port Desire
03 January 1834	<i>Port Desire notebook</i> : 4	Port Desire
09 January 1834	<i>Port Desire notebook</i> : 13	Port St Julian
10 January 1834	<i>Port Desire notebook</i> : 13	Port St Julian
16 January 1834	<i>Port Desire notebook</i> : 13	Port St Julian
17 January 1834	<i>Port Desire notebook</i> : 14	Port St Julian
20 January 1834	<i>Port Desire notebook</i> : 14	Port Desire
21 January 1834	<i>Port Desire notebook</i> : 18	Port Desire
03 February 1834	<i>Port Desire notebook</i> : 19	Port Famine
06 February 1834	<i>Port Desire notebook</i> : 22	Port Famine Mount Tarn
25 February 1834	<i>Port Desire notebook</i> : 26	Wollaston Island, Tierra del Fuego
27 February 1834	<i>Port Desire notebook</i> : 29	Navarin Island
16 March 1834	<i>Port Desire notebook</i> : 33	Berkeley Sound, East Falkland
17 March 1834	<i>Port Desire notebook</i> : 35	Valley at Rincon del Toro
18 March 1834	<i>Port Desire notebook</i> : 37	Valley at Rincon del Toro
19 March 1834	<i>Port Desire notebook</i> : 38	Berkeley Sound
23 March 1834	<i>Port Desire notebook</i> : 39	Berkeley Sound
31 March 1834	<i>Port Desire notebook</i> : 41	Berkeley Sound
14 April 1834	<i>B. Blanca notebook</i> : 69a	Mouth of Rio Santa Cruz
18 April 1834	<i>Banda Oriental notebook</i> : 38	Along Rio Santa Cruz
19 April 1834	<i>Banda Oriental notebook</i> : 38	Along Rio Santa Cruz
20 April 1834	<i>Banda Oriental notebook</i> : 39	Along Rio Santa Cruz
21 April 1834	<i>Banda Oriental notebook</i> : 41	Along Rio Santa Cruz
22 April 1834	<i>Banda Oriental notebook</i> : 42	Along Rio Santa Cruz
23 April 1834	<i>Banda Oriental notebook</i> : 45	Along Rio Santa Cruz
24 April 1834	<i>Banda Oriental notebook</i> : 47	Along Rio Santa Cruz
25 April 1834	<i>Banda Oriental notebook</i> : 49	Along Rio Santa Cruz
27 April 1834	<i>Banda Oriental notebook</i> : 63	Along Rio Santa Cruz
28 April 1834	<i>Banda Oriental notebook</i> : 67	Along Rio Santa Cruz
29 April 1834	<i>Banda Oriental notebook</i> : 75	Along Rio Santa Cruz
30 April 1834	<i>Banda Oriental notebook</i> : 79	Along Rio Santa Cruz
01 May 1834	<i>Banda Oriental notebook</i> : 81, 87, 90	Along Rio Santa Cruz
02 May 1834	<i>Banda Oriental notebook</i> : 94	Along Rio Santa Cruz
03 May 1834	<i>Banda Oriental notebook</i> : 98	Along Rio Santa Cruz
04 May 1834	<i>Banda Oriental notebook</i> : 100	Along Rio Santa Cruz
05 May 1834	<i>Banda Oriental notebook</i> : 101	Along Rio Santa Cruz
06 May 1834	<i>Banda Oriental notebook</i> : 102	Along Rio Santa Cruz
07 May 1834	<i>Banda Oriental notebook</i> : 103	Along Rio Santa Cruz
08 May 1834	<i>Banda Oriental notebook</i> : 104	Mouth of Rio Santa Cruz

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09 May 1834	<i>Banda Oriental notebook:</i> 107	Mouth of Rio Santa Cruz
12 May 1834	<i>Banda Oriental notebook:</i> 106, 107	Santa Cruz–Port Famine
25 May 1834	<i>Banda Oriental notebook:</i> 107	Santa Cruz–Port Famine
02 June 1834	<i>B. Blanca notebook:</i> 76a, 80a	Port Famine
09 June 1834	<i>B. Blanca notebook:</i> 81a	Magdalen Channel
14 August 1834	<i>Valparaiso notebook:</i> 1a	Valparaiso, Chile
15 August 1834	<i>Valparaiso notebook:</i> 2a	Hacienda de San Isidro
16 August 1834	<i>Valparaiso notebook:</i> 9a	Campana or Bell Mountain
17 August 1834	<i>Valparaiso notebook:</i> 17a	Campana or Bell Mountain
18 August 1834	<i>Valparaiso notebook:</i> 30a	Hacienda de San Isidro
19 August 1834	<i>Valparaiso notebook:</i> 41a	Quillota
20 August 1834	<i>Valparaiso notebook:</i> 43a	Mines of Jajuel
21 August 1834	<i>Valparaiso notebook:</i> 46a	Mines of Jajuel
22 August 1834	<i>Valparaiso notebook:</i> 53a	Mines of Jajuel
23 August 1834	<i>Valparaiso notebook:</i> 64a	Mines of Jajuel
24 August 1834	<i>Valparaiso notebook:</i> 74a	Mines of Jajuel
25 August 1834	<i>Valparaiso notebook:</i> 75a	Mines of Jajuel
26 August 1834	<i>Valparaiso notebook:</i> 78a	Cerro del Talguen
27 August 1834	<i>Valparaiso notebook:</i> 81a	Santiago
28 August 1834	<i>Valparaiso notebook:</i> 86a	Santiago
29 August 1834	<i>Valparaiso notebook:</i> 86a	Santiago
30 August 1834	<i>Valparaiso notebook:</i> 96a	Santiago
02 September 1834	<i>Santiago notebook:</i> 2	Santiago
05 September 1834	<i>Santiago notebook:</i> 3	Hacienda outside Santiago
06 September 1834	<i>Santiago notebook:</i> 4	Rancagua
07 September 1834	<i>Santiago notebook:</i> 7	Cauquenes
08 September 1834	<i>Santiago notebook:</i> 14	Cauquenes
09 September 1834	<i>Santiago notebook:</i> 19	Cauquenes
10 September 1834	<i>Santiago notebook:</i> 26	Cauquenes
11 September 1834	<i>Santiago notebook:</i> 30	Cauquenes
12 September 1834	<i>Santiago notebook:</i> 30	Cauquenes
13 September 1834	<i>Santiago notebook:</i> 33	River Claro
14 September 1834	<i>Santiago notebook:</i> 33	San Fernando
18 September 1834	<i>Santiago notebook:</i> 37	Yaquil near Rancagua
19 September 1834	<i>Santiago notebook:</i> 53	River Tinderidica
20 September 1834	<i>Santiago notebook:</i> 54	West of Rancagua
21 September 1834	<i>Santiago notebook:</i> 59	West of Rancagua
22 September 1834	<i>Santiago notebook:</i> 59	Navedad
23 September 1834	<i>Santiago notebook:</i> 60	Navedad
24 September 1834	<i>Santiago notebook:</i> 67	Towards Valparaiso
25 September 1834	<i>Santiago notebook:</i> 67	Casa Blanca
26 September 1834	<i>Santiago notebook:</i> 67	Casa Blanca
27 September 1834	<i>Santiago notebook:</i> 67	Valparaiso

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24 November 1834	<i>Port Desire notebook:</i> 56	Chacao, Chiloe
25 November 1834	<i>Port Desire notebook:</i> 59	Huapilenou, Chiloe
26 November 1834	<i>Port Desire notebook:</i> 60	Caucahue Island, Chiloe
27 November 1834	<i>Port Desire notebook:</i> 63	Quinchao Island, Chiloe
28 November 1834	<i>Port Desire notebook:</i> 65	Quinchao Island, Chiloe
29 November 1834	<i>Port Desire notebook:</i> 67	Castro, Chiloe
30 November 1834	<i>Port Desire notebook:</i> 71	Castro, Chiloe
01 December 1834	<i>Port Desire notebook:</i> 79	Lemuy Island, Chiloe
02 December 1834	<i>Port Desire notebook:</i> 84	Lemuy Island, Chiloe
03 December 1834	<i>Port Desire notebook:</i> 91	Lemuy Island, Chiloe
04 December 1834	<i>Port Desire notebook:</i> 94	P. Chagua, Chiloe
05 December 1834	<i>Port Desire notebook:</i> 96	P. Chagua, Chiloe
06 December 1834	<i>Port Desire notebook:</i> 99	Caylen, Chiloe
07 December 1834	<i>Port Desire notebook:</i> 103	San Pedro Island, Chiloe
19 January 1835	<i>Galapagos notebook:</i> 3a	Chiloe
10 February 1835	<i>Santiago notebook:</i> 73	Valdivia
11 February 1835	<i>Santiago notebook:</i> 79	Excursion from Valdivia
22 February 1835	<i>Santiago notebook:</i> 87	Valdivia to Concepcion
24 February 1835	<i>Santiago notebook:</i> 87	Mocha Island
12 March 1835	<i>St. Fe notebook:</i> 227a	Valparaiso
14 March 1835	<i>Galapagos notebook:</i> 4a	Valparaiso to Santiago
15 March 1835	<i>Galapagos notebook:</i> 7a	Santiago
18 March 1835	<i>St. Fe notebook:</i> 66a	To Portillo Pass
19 March 1835	<i>St. Fe notebook:</i> 69a	To Portillo Pass
20 March 1835	<i>St. Fe notebook:</i> 75a, 79a	Portillo Pass
21 March 1835	<i>St. Fe notebook:</i> 93a, 127a	Far side of Portillo Pass
22 March 1835	<i>St. Fe notebook:</i> 131a	Far side of Portillo Pass
23 March 1835	<i>St. Fe notebook:</i> 132a	Los Arenales
24 March 1835	<i>St. Fe notebook:</i> 133a	Estancia of Chaquiao
25 March 1835	<i>St. Fe notebook:</i> 145a	Estacado
26 March 1835	<i>St. Fe notebook:</i> 148a	Luxan
27 March 1835	<i>St. Fe notebook:</i> 152a	Mendoza
28 March 1835	<i>St. Fe notebook:</i> 153a	Mendoza
29 March 1835	<i>St. Fe notebook:</i> 154a	Villa Vicencio
30 March 1835	<i>St. Fe notebook:</i> 157a	Hornillos
31 March 1835	<i>St. Fe notebook:</i> 164a	Hornillos
01 April 1835	<i>St. Fe notebook:</i> 177a	Uspallata
02 April 1835	<i>St. Fe notebook:</i> 183a	Pulvadera
03 April 1835	<i>St. Fe notebook:</i> 189a	Rio de las Vacas
04 April 1835	<i>St. Fe notebook:</i> 196a	Puente del Inca
05 April 1835	<i>St. Fe notebook:</i> 201a	Ojos del Agua
06 April 1835	<i>St. Fe notebook:</i> 211a	Ojos del Agua, Guard House
07 April 1835	<i>St. Fe notebook:</i> 214a	Ojos del Agua, Guard House
08 April 1835	<i>St. Fe notebook:</i> 214a	Villa de St Rosa

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09 April 1835	<i>St. Fe notebook</i> : 218a	Cuesta of Chacabuco Colina
10 April 1835	<i>St. Fe notebook</i> : 218a	Santiago
15 April 1835	<i>St. Fe notebook</i> : 218a	Santiago to Valparaiso
20 April 1835	<i>St. Fe notebook</i> : 224a	Valparaiso
23 April 1835	<i>Galapagos notebook</i> : 12a	Valparaiso
27 April 1835	<i>Coquimbo notebook</i> : 1	Vino del March
28 April 1835	<i>Coquimbo notebook</i> : 1	Quillota
29 April 1835	<i>Coquimbo notebook</i> : 3	Quillota
30 April 1835	<i>Coquimbo notebook</i> : 4	Catapilco
01 May 1835	<i>Coquimbo notebook</i> : 6	Longotomo
02 May 1835	<i>Coquimbo notebook</i> : 8	Quilimar
03 May 1835	<i>Coquimbo notebook</i> : 12	Conchalee
04 May 1835	<i>Coquimbo notebook</i> : 16	Illapel
05 May 1835	<i>Coquimbo notebook</i> : 19	Illapel
06 May 1835	<i>Coquimbo notebook</i> : 20	Los Hornos
07 May 1835	<i>Coquimbo notebook</i> : 25	Los Hornos
08 May 1835	<i>Coquimbo notebook</i> : 48	Combarbala
09 May 1835	<i>Coquimbo notebook</i> : 57	Mineral of Punitague
10 May 1835	<i>Coquimbo notebook</i> : 59	Ovalle
11 May 1835	<i>Coquimbo notebook</i> : 64	Panuncillo
12 May 1835	<i>Coquimbo notebook</i> : 75	Panuncillo
13 May 1835	<i>Coquimbo notebook</i> : 75	The Punta
14 May 1835	<i>Coquimbo notebook</i> : 78	Coquimbo
16 May 1835	<i>Coquimbo notebook</i> : 88	Coquimbo
18 May 1835	<i>Coquimbo notebook</i> : 88	Coquimbo
20 May 1835	<i>Coquimbo notebook</i> : 95, BC	Coquimbo
21 May 1835	<i>Coquimbo notebook</i> : 100	Mine of Edwards
22 May 1835	<i>Coquimbo notebook</i> : 102	Mine of Edwards
23 May 1835	<i>Coquimbo notebook</i> : 109	Hacienda of Don Jose
24 May 1835	<i>Coquimbo notebook</i> : 120	Hacienda of Don Jose
25 May 1835	<i>Coquimbo notebook</i> : 121	Rio Claro
26 May 1835	<i>Coquimbo notebook</i> : 128	Hacienda of Don Jose
31 May 1835	<i>Coquimbo notebook</i> : FC	Coquimbo
01 June 1835	<i>Copiapò notebook</i> : 1	Coquimbo
02 June 1835	<i>Copiapò notebook</i> : 2	Yerba Buena
03 June 1835	<i>Copiapò notebook</i> : 4	Carizal
04 June 1835	<i>Copiapò notebook</i> : 7	Sauce
05 June 1835	<i>Copiapò notebook</i> : 12	Guasco
06 June 1835	<i>Copiapò notebook</i> : 14	Guasco
07 June 1835	<i>Copiapò notebook</i> : 17	Guasco
08 June 1835	<i>Copiapò notebook</i> : 19	Ballenar
09 June 1835	<i>Copiapò notebook</i> : 20	Ballenar
10 June 1835	<i>Copiapò notebook</i> : 22	Valley above Ballenar
11 June 1835	<i>Copiapò notebook</i> : 25	Valley above Ballenar

Date	Notebook/page	Locality
12 June 1835	<i>Copiapò notebook</i> : 26	Hacienda of Potrero Seco
13 June 1835	<i>Copiapò notebook</i> : 26	Hacienda of Potrero Seco
14 June 1835	<i>Copiapò notebook</i> : 32	Hacienda of Potrero Seco
15 June 1835	<i>Copiapò notebook</i> : 43	Hacienda of las Amolanas
16 June 1835	<i>Copiapò notebook</i> : 50	Hacienda of las Amolanas
17 June 1835	<i>Copiapò notebook</i> : 58	Jolquera valley
18 June 1835	<i>Copiapò notebook</i> : 65	Jolquera valley
19 June 1835	<i>Copiapò notebook</i> : 70	Hacienda of las Amolanas
20 June 1835	<i>Copiapò notebook</i> : 73	Hacienda of las Amolanas
21 June 1835	<i>Copiapò notebook</i> : 81	Hacienda of Potrero Seco
22 June 1835	<i>Copiapò notebook</i> : 82	Copiapò (Mr Bingley)
23 June 1835	<i>Copiapò notebook</i> : 91	Copiapò
24 June 1835	<i>Copiapò notebook</i> : 92	Copiapò
25 June 1835	<i>Copiapò notebook</i> : 92	Copiapò
26 June 1835	<i>Despoblado notebook</i> : 1b	Copiapò
27 June 1835	<i>Despoblado notebook</i> : 2b	Ravine of Paypote
28 June 1835	<i>Despoblado notebook</i> : 12b	Cordilleras Maricongo
29 June 1835	<i>Despoblado notebook</i> : 20b	Ravine of Paypote
30 June 1835	<i>Despoblado notebook</i> : 22b	Copiapò
01 July 1835	<i>Despoblado notebook</i> : 28b	Copiapò
02 July 1835	<i>Despoblado notebook</i> : 35b	Copiapò
03 July 1835	<i>Despoblado notebook</i> : 35b	Copiapò
04 July 1835	<i>Despoblado notebook</i> : 36b	Copiapò port
05 July 1835	<i>Despoblado notebook</i> : 39b	Copiapò port
06 July 1835	<i>Despoblado notebook</i> : 40b	Copiapò–Iquique, Peru
12 July 1835	<i>Despoblado notebook</i> : 42b	Iquique
15 July 1835	<i>Despoblado notebook</i> : 42b	Iquique-Lima
19 July 1835	<i>Despoblado notebook</i> : 45b	Lima
20 July 1835	<i>Despoblado notebook</i> : 45b	Lima
21 July 1835	<i>Despoblado notebook</i> : 45b	Lima
22 July 1835	<i>Galapagos notebook</i> : 8a	Lima
29 July 1835	<i>Galapagos notebook</i> : 17a, 25a	Lima
03 August 1835	<i>Galapagos notebook</i> : 25a	Lima
31 August 1835	<i>Despoblado notebook</i> : 24a	Lima
07 September 1835	<i>Despoblado notebook</i> : 43b	Lima–Galapagos
19 September 1835	<i>Galapagos notebook</i> : 18b	Chatham Island, Galapagos
20 September 1835	<i>Galapagos notebook</i> : 18b	Chatham Island, Galapagos
30 September 1835	<i>Galapagos notebook</i> : 29a, BC	Albemarle Island, Galapagos
12 October 1835	<i>Galapagos notebook</i> : 36b	James Island, Galapagos
13 October 1835	<i>Galapagos notebook</i> : 40b	James Island, Galapagos
14 October 1835	<i>Galapagos notebook</i> : 42b	James Island, Galapagos
16 October 1835	<i>Galapagos notebook</i> : 45b	James Island, Galapagos
17 October 1835	<i>Galapagos notebook</i> : 50b	James Island, Galapagos

Date	Notebook/page	Locality
18 October 1835	<i>Galapagos notebook</i> : 50b	Albemarle Island, Galapagos
18 November 1835	<i>Galapagos notebook</i> : 52b	Tahiti
19 November 1835	<i>Galapagos notebook</i> : 61b	Tahiti
20 November 1835	<i>Galapagos notebook</i> : 64b	Matavai, Tahiti
21 November 1835	<i>Galapagos notebook</i> : 65b	Matavai, Tahiti
22 November 1835	<i>Galapagos notebook</i> : 65b	Matavai, Tahiti
23 November 1835	<i>Galapagos notebook</i> : 66b	Matavai, Tahiti
25 November 1835	<i>Galapagos notebook</i> : 66b	Papiete, Tahiti
26 November 1835	<i>Galapagos notebook</i> : 66b	Tahiti-New Zealand
16 January 1836	<i>Sydney notebook</i> : 1a	Emu ferry (Penrith), Australia
17 January 1836	<i>Sydney notebook</i> : 7a	Blackheath Inn
18 January 1836	<i>Sydney notebook</i> : 16a	Walarawang
19 January 1836	<i>Sydney notebook</i> : 25a	Walarawang
20 January 1836	<i>Sydney notebook</i> : 36a	Bathurst
21 January 1836	<i>Sydney notebook</i> : 46a	Bathurst
22 January 1836	<i>Sydney notebook</i> : 46a	Tarana
23 January 1836	<i>Sydney notebook</i> : 48a	Weatherboard Inn
24 January 1836	<i>Sydney notebook</i> : 50a	Weatherboard Inn
25 January 1836	<i>Sydney notebook</i> : 50a	Weatherboard Inn
26 January 1836	<i>Sydney notebook</i> : 51a	Dunheved
27 January 1836	<i>Sydney notebook</i> : 54a	Sydney
05 May 1836	<i>Sydney notebook</i> : 65a	Port Louis, Mauritius
31 May 1836	<i>Despoblado notebook</i> : 52b	Simon's Town, Cape of Good Hope
01 June 1836	<i>Despoblado notebook</i> : 52b	Cape Town
02 June 1836	<i>Despoblado notebook</i> : 53b	Cape Town
04 June 1836	<i>Despoblado notebook</i> : 55b	Paarl
05 June 1836	<i>Despoblado notebook</i> : 58b	Franschhoek
06 June 1836	<i>Despoblado notebook</i> : 62b	Franschhoek
07 June 1836	<i>Despoblado notebook</i> : 64b	Cape Town
08 June 1836	<i>Despoblado notebook</i> : 72b	Cape Town
09 June 1836	<i>Despoblado notebook</i> : 72b	Cape Town
10 June 1836	<i>Despoblado notebook</i> : 72b	Cape Town
12 June 1836	<i>Despoblado notebook</i> : 73b	Cape Town
13 June 1836	<i>Despoblado notebook</i> : 73b	Cape Town
15 June 1836	<i>Despoblado notebook</i> : 73b	Cape Town
16 June 1836	<i>Despoblado notebook</i> : 73b	Simon's Town
17 June 1836	<i>Despoblado notebook</i> : 73b	Simon's Town
18 June 1836	<i>Despoblado notebook</i> : 73b	Cape of Good Hope-St Helena
29 June 1836	<i>Despoblado notebook</i> : 74b	St Helena
08 July 1836	<i>Despoblado notebook</i> : 74b	St Helena
09 July 1836	<i>Despoblado notebook</i> : 75b	St Helena
10 July 1836	<i>Despoblado notebook</i> : 76b	St Helena

Date	Notebook/page	Locality
11 July 1836	<i>Despoblado notebook</i> : 78b	St Helena
13 July 1836	<i>Despoblado notebook</i> : 79b	St Helena
14 July 1836	<i>Despoblado notebook</i> : 85b	St Helena–Ascension
12 August 1836	<i>Despoblado notebook</i> : 87b	Pernambuco
31 August 1836	<i>Despoblado notebook</i> : 34b	Cape de Verds

EXPEDITION EQUIPMENT



This list is an attempt to collect all known references to the clothing and equipment Darwin carried on his inland expeditions, when the notebooks were used. Only items for which there is documentary evidence are listed. The main sources are the *Beagle* notebooks and *Beagle diary*. Of course it must be borne in mind that listing an item in a notebook does not necessarily mean that Darwin had the item with him. This is only unambiguously the case if he actually referred to using the item in his notes, for example pushing a bird off a tree with his gun on the Galapagos. He sometimes carried a rifle but there are few references for this, other than 12 September 1832 (*Beagle diary*, p. 104). In the *Autobiography* Darwin explained that in the early years of the voyage he did his own shooting, but gradually handed this over to his servant Syms Covington. The instruction ‘compare with blowpipe’ (*Santiago notebook*, p. 13) indicates that Darwin had left this item of mineralogical equipment on the *Beagle*.¹⁰⁵² Cathy Power kindly provided the English Heritage accession numbers (EH) for items believed to be in the Down House Collection.

Clothing

‘Belt’ (also used for measuring) *Port Desire*: 128, CCD1: 248.

‘Boots’ *Galapagos*: 5b, ‘thick boots’ *Beagle diary*: 363, ‘Strong Boots’ *St. Fe*: 232a.

‘cape of the Indian-rubber cloth’ *Beagle diary*: 184.

‘Gloves’ *Falkland*: 4b.

‘Handkerchief’ (used for measuring length) *Buenos Ayres*: 80a, (used to wrap specimens) *Falkland* 52a, ‘Blank silk handkerchief’ *St. Fe*: 5a, ‘silk pocket-handkerchief’ *Mammalia*: 31.

Hat: ‘/Big Hat/’ *St. Fe*: 4a. (Panama hat EH 88202307)

‘Mackintosh’ *St. Fe*: 5a.

‘Nightcap’ *Falkland*: 4b, ‘Night caps’ *Galapagos*: 11b.

‘Poncho’ *Falkland*: 3a.

‘shirt’ *Buenos Ayres*: 18b, *Galapagos*: 5b.

¹⁰⁵² See Herbert 2005 for photographs.

Shoes: 'shoes' *St. Fe*: 6b, *Galapagos*: 30a, 'Shoes blacking' *Coquimbo*: 132, '4 pair of very strong walking shoes' CCD1: 314–5.

'Shooting Jacket' *St. Fe*: 5a, 237a.

Stockings: 'Woollen Stockings' *St. Fe*: 5a, *Galapagos*: 11b, *Falkland*: 4b 'Worsted stockings' *St. Fe*: 189a.

'Trousers' *St. Fe*: 5a, 237a, 'Drawers' *Buenos Ayres*: 18b.

Waistcoat: 'Flannel waistcoat' *Beagle diary*: 311.

Food, drink and medicine

'Bread' *Galapagos*: 5b, *St. Fe*: 5a, 2b, *B. Blanca*: 2a.

Canteens: 'Two Metal Canteens' Shipley and Simpson 1909: 8.

'Cheese' [traps baited with] *Birds*: 53 *et al.*

'Chocolate' *Galapagos*: 5b.

'flask with water' *Falkland*: 82a.

'flask of spirits' *Beagle diary*: 373 (in the original manuscript: 'bottle flask of spirits').

'Laudanum Lozenges' *Sydney*: 5b.

'Mattee' *Galapagos*: 2b, 3b.

'Meat' *Galapagos*: 5b.

'Medicin' *Galapagos*: 8b, 11b.

'Peppermint' *Sydney*: 5b.

'Carb of Soda & Magnesia' *Sydney*: 5b.

'Pills' *St. Fe*: 5a, *Copiapò*: IBC.

'Tea' *Galapagos*: 5b.

'Yerba' *B. Blanca*: 2b.

'Sugar' *Galapagos*: 7b, *St. Fe*: 5a, 2b, *B. Blanca*: 2a.

Personal

Books: 'a single small volume' of Milton's *Paradise Lost, Autobiography*: 85, 'Milton' *Despoblado*: 132. Apart from Milton, no evidence has been found that Darwin carried any books with him and there is some evidence that he did not, e.g. 'no books' *Falkland*: 124a. The only exception is Desquiron de Saint-Agnan ed. 1821, Darwin recorded reading in *B. Blanca*: p. 12a, but presumably this was present in the house where he was staying. He may have taken Lyell's *Principles of geology* and other books which were his personal property, but the *Beagle* library rules expressly prohibited taking the library books off the ship (see CCD1: 554). Darwin does, however, list numerous books that he wanted to read or re-read, e.g. Humboldt 'of course' *Falkland*: 74a and it is certainly possible that he used Werner's *nomenclature of colours* by Patrick Syme (1821) to capture the colours of specimens before they started to fade, e.g. condor iris 'scarlet red' *Banda Oriental*: 66 and hawk iris 'honey yellow' *Port Desire*: 53.

'bracers' *Galapagos*: 7b.

'Candles' *Galapagos*: 5b.

'Cigaritos' *Galapagos*: 3b.
 'Cigars' *Buenos Ayres*: 1a, *St. Fe*: 5a–2b, *Galapagos*: 5b, *B. Blanca*: 2a.
 'Comb' *Falkland*: 4b.
 'knapsack' *Falkland*: 52a.
 'Lavander water' *Sydney*: 5b.
 'Letter paper' *Galapagos*: 7b.
 Matches: 'Prometheans' *Falkland*: 4b, 'Promethians' *Beagle diary*: 155.
 'Money' *St. Fe*: 4a, *Galapagos*: 9b.
 'Mule-shoe' *Galapagos*: 6b.
 Oil: 'Sweet smelling oil' *Galapagos*: 11b.
 'Passport' *Falkland*: 4b, *Galapagos*: 5b, *St. Fe*: 6a.
 'Razors' *Galapagos*: 11b.
 'Saddle for mule' *Galapagos*: 3b.
 'Snuff' *St. Fe*: 5a, *Galapagos*: 6b, 'Wood Snuff Box' *St. Fe*: 5a.
 'Soap' *Sydney*: 6b.
 'Stirrups' *Buenos Ayres*: 12b, *Galapagos*: 7b.
 'Tobacco' *Sydney*: 8b.
 'Tooth-Brushes' *Sydney*: 7b, *Galapagos*: 7b.
 Watch: *Buenos Ayres*: 12b, 'Watch key & glass' *Buenos Ayres*: 3.

Tools and instruments

Barometer: 'Mountain barometer' *Beagle diary*: 68, 'Barometer' *Falkland*, 6a, CCD1:399, *South America*, many references but also 'not having a barometer with me' p. 45. (EH 88202303)
 bed & a Kettle, & a pot, a plate & basin' CCD1: 449.
 'Bees wax' *St. Fe*: 5a.
 'Big bag' *St. Fe*: 5a.
 'Bladders' *St. Fe*: 53a.
 Bottles: 'Big Bottles' *B. Blanca*: 3a, *St. Fe*: 5a, 'Bottle small with large mouth' *St. Fe*: 5a, 'Spider Bottle', *Zoology notes*: 38, 'collecting bottles covered with leather' *Journal of researches*: 601.
 Boxes: 'Pill Boxes' *Galapagos*: 11b, *Buenos Ayres*: 16b, 'pill-boxes', 'chip pill-boxes', 'tin boxes' *Journal*: 601.
 'Chissel' *Galapagos*: 6b, 'chisels ... for fossils' Darwin 1849: 160.
 'clinometer' Herschel: 160. (EH 88202343)
 Compass: 'Kater compass' *B. Blanca*: 47a, 'Katers Compass' *St. Fe*: 4a, 2b, *Beagle diary*: 186.
 'Corks for Jars' *St. Fe*: 5a.
 'Fish hooks' *St. Fe*: 2b.
 Firearms: Pistols: 'small pistol' *Beagle diary*: 46, 'Pistol, balls, powder' *Falkland*: 4b, *St. Fe*: 5a, *Galapagos*: 4b. (Pocket pistol EH 88202355), Rifle: 'our rifles' *Beagle*

- diary*: 104, ‘my gun’ 353, *B. Blanca*: 7a, ‘Gunpowder & shot’ *St. Fe*: 6a, *Falkland*: 4b, *St. Fe*: 5a, *Galapagos*: 4b. ‘wadding’ *Falkland*: 75a.
- ‘fly-nippers’ *Beagle diary*: 22.
- ‘forceps’ *Journal of researches*: 38.
- ‘Gold Leaf’ *St. Fe*: 5a.
- Hammers: ‘25 pound hammer’ *Coquimbo*: 65, Herschel: 229, ‘small hammer’ *Falkland*: 4b, ‘Hammer & [tools]’, ‘hammer’ *Buenos Ayres*: 15b, ‘a heavy hammer, with its two ends wedge-formed and truncated, a light hammer for trimming specimens’ Darwin 1849: 160. (EH 88202681)
- ‘Hygrometer’ *Beagle diary*: 31, 70. (EH 88202304)
- Knives: ‘I wear a large clasp-knife, in the manner of sailors fastened by a string round my neck’ *Beagle diary*: 158, *St. Fe*: 5a, ‘Big knife’ *Falkland*: 4b, ‘Pen knife’ *St. Fe*: 5a, ‘Second Penknife’ *Sydney*: 4b.
- Lenses: ‘a pocket-lens with three glasses’ Darwin 1849: 160. A lens with two is implied on *St. Fe*: 126a. (EH 88202694/ 2693)
- Nets: ‘a plain strong sweeping-net’, *Journal*: 601, ‘Fly net’ *Beagle diary*: 46, ‘insect net, with scissor handles’ Harmer and Ridewood 1910: 24, ‘casting net’ [for fish] *Narrative* 2: 343.
- ‘Note book’ *Buenos Ayres*: 1a, 12b, *Falkland*: 4b, *B. Blanca*: 3b, *St. Fe*: 6a, *Valparaiso*: 98a
- ‘Paper for Plants’ *St. Fe*: 5a, 7a, 2b.
- Pencils: ‘silver pencil case’ *Beagle diary*: 26, ‘[Sharp] Pencil’ *Galapagos*: 7b, *Sydney*: 4b
‘Spare pencil’ *Falkland*: 4b.
- Pens: ‘Bramah pens’, *Buenos Ayres*: 1a, *Falkland*: 4b, *Sydney*: 4b, 7b, ‘Common [pens]’, *Sydney*: 4b.
‘[pincer] for insects & bottle’ *Rio*: 50b
- ‘Pix axe’ *Rio*: 50b, *St. Fe*: 2b, ‘pickaxe for fossils’ Herschel: 160.
- ‘Protractor’ *St Fe*: 5a
- ‘Rosin’ *St. Fe*: 5a.
- ‘Salt petre’ *Falkland*: 4b.
- ‘Scissors’ *Buenos Ayres*: 1a.
- ‘ Sextant & artificial horizon’ *Beagle diary*: 336.
- ‘small Vasculums’ *Falkland*: 75a.
- ‘Spirit bottle’ *Falkland*: 4, ‘Jar with spirits’ *St. Fe*: 2b, ‘Keg of Spirits’ *Galapagos*: IBC.
‘tape measure’, CCD1: 314. (EH 88202759)
- ‘telescope’ *Beagle diary*: 184. (EH 88202348/ pocket telescope 88202342)
- ‘Thermometer’ *Galapagos*: 8a, ‘therm: in pocket’ *Rio*: 5b
- ‘Tow’ *St. Fe*: 5a, *Falkland*: 83a.
- Traps: ‘Mice & Rat traps’ *St. Fe*: 5a, ‘Mice traps’ *Falkland*: 75a, ‘mouse traps’ *Beagle diary*: 160, (‘baited either with cheese or meat’ *Mammalia*: 53, ‘baited with a piece of bird’: 49) ‘Many contrivances for catching animals’ *Beagle diary*: 74.

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