

**An Annotated Calendar of the Letters
of Charles Darwin in the Library of
the American Philosophical Society
1799-1882
Mss.B.D25**

American Philosophical Society
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Summary Information

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Abstract	<p>One of the most important natural historians in nineteenth century Britain, Charles Darwin provided the first compelling mechanism to account for organismal evolutionary change. Although lacking a coherent model of heredity, Darwin's natural selection has exerted an enormous influence over the biological sciences and since the introduction of Mendelian genetics, had remained the key unifying principle in the discipline. The APS Darwin Papers are a large a valuable assemblage of Darwin's correspondence with scientific colleagues, including Charles Lyell and George J. Romanes. They are included in the print version of the <i>Correspondence of Charles Darwin</i> (Cambridge Univ. Press).</p>

Preferred Citation

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Background note

The profound influence of the thought of Charles Darwin on contemporary scientific culture stems largely from his theory of natural selection, the first widely accepted mechanism to account for organismal evolutionary change. A product of Victorian preconceptions of the order of nature and the nature of change, both Darwin and his theories have proven remarkably resilient and remain a vital heuristic in the biological sciences.

The son of the physician Robert Darwin, Charles Darwin was blessed with a pair of illustrious grandfathers from the progressive elite of British Whiggery, the *savant* and proto-evolutionist, Erasmus Darwin, and the manufacturer of ceramics, Josiah Wedgwood. Born in Shrewsbury on February 12, 1809, Charles entered the University of Edinburgh at age sixteen, intending to follow in his father's footsteps into medicine, but he proved as unmotivated a student as he was unenthusiastic. Repulsed by the experience of attending surgeries undertaken in the absence of anaesthetics, Darwin abandoned his already half-hearted commitment to medicine and in 1827, he left Edinburgh for Christ's College, Cambridge, to study for the ministry.

The change of venue did little to rouse Darwin's enthusiasm for coursework, however at Cambridge, he met three men whose enthusiasm for nature sparked his imagination. With the great geologist, Charles Lyell, Darwin undertook field excursions to south Wales and was introduced to the concept of uniformitarianism; with F.W. Hope, he spent the summer of 1829 collecting bugs and beetles; while the botanist John Stevens Henslow encouraged his interest in the natural sciences, but equally importantly introduced him to Captain Robert Fitz-Roy. After receiving his degree in 1831, Darwin signed on as naturalist aboard Fitz-Roy's H.M.S. *Beagle* on its cruise around the world. Summarizing Darwin's subsequent career would be an exercise in courting claims to insufficiency while guaranteeing inadequacy, yet

Returning home from the *Beagle* in 1836, Darwin began in earnest to write and publish in natural history. His first paper, speculating on the origin of coral atolls, was begun in December 1835, and he began his first notebook on theories relating to the transmutation of species in July 1837, only two months after presenting his coral atoll paper at the Geological Society. Financial pressures were not a concern for the well-heeled Darwin, particularly after marrying his wealthy first cousin, Emma Wedgwood, in January 1839, and from the late 1830s onward, Darwin was able to lead an gentleman's life devoted to the pursuit of science, interrupted on occasion by illness and family concerns.

Darwin's first major monograph, his *Journal of Researches* (London: H. Colburn, 1839), was an important record of the geological and natural historical observations made during his voyage aboard the *Beagle*, and was a huge popular success. Since his visit to the Galapagos aboard the *Beagle*, however, Darwin had been percolating with ideas on the transmutation of species, an idea that had concerned his grandfather Erasmus before him. According to Darwin's retelling of the events, his ideas began to gel after reading Thomas Malthus's *Essay on the Principle of Population*, which confirmed his predilection for viewing nature as a struggle for existence in which "favourable variations would tend to be preserved and unfavourable ones to be destroyed." Malthusian logic, he believed, would lead one to conclude that the end result would be the differential reproduction of animal populations based upon the characteristics

each possessed, leading ultimately to speciation. By the early 1840s, Darwinian natural selection was beginning to germinate.

Yet still he sat. Darwin's research during the 1840s and early 1850s included brushes with the evolutionist thought of the botanist J.D. Hooker, the cosmic Robert Chambers and others, and in 1842, he sketched out the rudiments of his theory, thinking enough of it to have it copied two years later. His ardor for publishing on the topic may have been cooled by the hostility he saw meted out to Chambers' *Vestiges of the Natural Creation* (1844), but his attention was also divided -- barnacles and migraines were as much part of Darwin's decades as natural selection. Even the appearance in 1855 of Alfred Russel Wallace's "On the Law Which has Regulated the Introduction of New Species" in the *Annals and Magazine of Natural History* did little to prod Darwin onward, nor did the intervention of his old mentor, Charles Lyell, speed the pen. It was not until 1858 that Darwin moved forward, having receiving a letter from Wallace informing him that Malthus's *Essay* had illuminated *his* thinking on the origin of species, and enclosing a manuscript for comment that outlined a theory with a strong, coincidental resemblance to Darwin's own. Fearful of losing any claim to priority, Darwin had his 1844 essay and Wallace's published jointly in the *Journal of the Proceedings of the Linnean Society* in August 1858, and he proceeded feverishly (often literally so) to work on a longer "abstract" of his ideas, the work that became his magnum opus, *On the Origin of Species* (London: J. Murray, 1859).

In the spectacular sequence of books that followed, Darwin elucidated various aspects of the theory of natural selection, progressing with increasing confidence through *The Variation of Animals and Plants Under Domestication* (London: J. Murray, 1868), *The Descent of Man and Selection in Relation to Sex* (London: J. Murray, 1871); and *The Expression of the Emotions in Man and the Animals* (London: J. Murray, 1872). Lacking, as he admitted, in any coherent theory of heredity, Darwin's natural selection nevertheless provided a persuasive explanation of the mechanics of organismal change. While the response to natural selection was not uniformly warm, perhaps even providing impetus to Lamarckian theories of inheritance, it was chiefly responsible for establishing evolutionary change as an integral part of biological explanation. The broader implications of Darwin's thought, including the role of contingency, relativism, and stochasticity in organismal change continue to define biological interests. More subtly, his ideas catalyzed a slow shift away from typological thinking (imaging the organism with respect to a perfect "type") toward viewing organisms in the context of a population, an attitudinal adjustment with profound implications for the practice of science in the twentieth century.

Darwin continued with research and writing until the time of his death on April 19, 1882. His last work was the quirky, fascinating, and perhaps prophetic book, *The Formation of Vegetable Mould Through the Action of Worms* (London: J. Murray 1882).

Scope & content

Much of the text for this finding aid has been taken from the printed volume, *Calendar of Darwin Letters in the American Philosophical Society* by P. Thomas Carroll.

The Darwin Papers at the American Philosophical Society represent approximately 15% of the surviving correspondence of the British evolutionary theorist, Charles Darwin. Consisting chiefly of correspondence between Darwin and other scientists writing on subjects from natural selection and the theory of evolution to the controversy caused by *On the Origin of Species*, the Darwin Papers.

The earliest accession of Darwin Papers at the APS consisted of an extensive and important series of letters between Darwin and his colleague and mentor, Charles Lyell, that frame the development of their thought from the late 1830s into the 1870s. There is a wealth of other important correspondence in the collection with John Thomas Gulick, George John Romanes, and Philip Lutley Sclater, among others.

This collection includes photostats of letters from Walsh to Darwin, in the Chicago Museum of Natural History, and photostats of Darwin manuscripts in possession of Dr. Robert M. Stecher, Cleveland, Ohio.

Relevance of the Darwin Calendar

Thousands of pages have been written about Charles Robert Darwin (1809-1882), whose *Origin of Species* laid the foundation for modern evolutionary theory. Even so, our picture of Darwin and our assessment of his place in history are undergoing constant revision. Relatively speaking, we are, after all, only recently accustomed to the notion that we share a common ancestry with apes, and few outside the biological professions yet appreciate the sweeping implications of population thinking (as opposed to typological thinking) or the concept of ecology. The social and political significance of Darwin's work will probably be debated for some time to come. Many historians of science are interested in the processes by which Darwin's ideas were formulated, disseminated, and ultimately accepted by scientists and by laymen. Scientists continue to be enlightened by reading Darwin¹ and publication of transcriptions of Darwin's various manuscripts occurs regularly.²

Given these developments, as well as the added stimulus provided by the 1959 centennial of the publication of the *Origin*, it seems certain that research and writing upon Darwin will continue, with scholars demanding access to ever more records of Darwin's life and work. This calendar was prepared with this demand in mind, so that readers may better interpret the significance of this great naturalist's achievements and those of his colleagues.

The five remaining sections of this introduction explain in a general way the design and the intended utility of the calendar. They discuss the following topics: 1) the primary importance of letters in the assessment of Darwin's life and work; 2) the justification for publishing these letters; 3) the nature of the Darwin letters collection at the Library of the American Philosophical Society; 4) the reasons for publishing the letters in the more-or-less unfashionable calendar format; and 5) the unique problems encountered in dating the letters. A rather extensive and detailed statement of the editorial method employed in this calendar follows the introduction.

Darwin's Letters

Modern man, armed with the telephone and often inundated with bureaucratic paperwork, might find it hard to comprehend how important letters were to life among the literate elite of the nineteenth century, and how valuable these nineteenth-century letters now are to scholars. But Darwin's contemporaries knew well the value of letters; Thomas Jefferson put the point succinctly in 1823 when he argued that "the letters of a person, especially of one whose business has been chiefly transacted by letters, form the only full and genuine journal of his life."³ This was especially true of scientists and other scholars of the day, for whom communication of the written word was such an integral part of intellectual activity.

Letters are particularly significant in Darwin's case. Physically isolated at Down House for most of his life and often immobilized by chronic illness, Darwin depended more heavily than others upon letters as his principal mode of communication. Moreover, because correspondence was Darwin's usual medium of contact with his closest friends, his letters often exhibit a degree of candor about his life and work not revealed clearly in any of his other papers and publications -- not even in the intimate *Autobiography* which, though written for his own satisfaction and the entertainment of his children, lacked the presence of daily communication and was tempered somewhat by the restraints of Darwin's time and class.⁴

Finally, the unusually heterogeneous quality of the Darwin letters reveal better than any other of the records of his life the diversity of his daily routine and the catholicity of his interests and preoccupations.

Scholars who examine the record of Darwin's life contained in his letters can expect to find many types of information. For the historian of science with a bent toward the history of ideas, there is abundant material on Darwin's scientific views. Sometimes a passage in a letter clarifies or corrects a claim in one of Darwin's published works; for example, in a letter to Charles Lyell in 1860, Darwin is tempering a rather extreme contention, which he had written into the *Origin*, when he writes that "Ammonites have become wholly extinct in a remarkably sudden manner *relatively* to most other families [and not absolutely, as implied in the *Origin*]; I meant only this [in the *Origin*], but I see I have not been nearly guarded enough."⁵ At other times Darwin retracts assertions made in previous letters; in some cases only the earlier, unamended claim has been published, so that the unsuspecting scholar may be misled if he does not peruse carefully the unpublished materials.⁶

Occasionally, a Darwin letter will contain opinions and theories not yet expressed in print, or at least not yet expressed as well as in the particular unpublished letter at hand; writing to Lyell in 1860, for example, Darwin argued that "how far to lump & split species is indeed a hopeless problem. It must in the end, I think, be determined by mere convenience."⁷ It would be hard to locate a more succinct or more modern expression of Darwin's well-known disbelief in the existence of identifiable species.

Scholars interested in the social history of science, the growth of scientific ideas, the sociology of science, and the dynamics of scientific communities also will find much of interest in the letters, for they contain many of Darwin's views on these subjects, especially in reference to Darwin's assessment of the prospects for ultimate acceptance of his own theories. This is best exemplified in Darwin's confidences to friends in 1859 and 1860 regarding the fate of the *Origin*,⁸ but there are other examples concerning Darwin's views about priority and his estimation of the role his cirripede work would play in the growth of science.⁹

Still another revealing type of information expressed only in the letters is that relating to Darwin's assessments of his colleagues -- enlightening glimpses of Darwin's critical insight at work which rarely surfaced in the polite society of contemporary England but are now absolutely necessary for a full understanding of his professional identity and behavior. Where else can one find Darwin saying of Robert FitzRoy: "I never cease wondering at his character,... full of good... traits but spoiled by such an unlucky temper. Some part of... his brain wants mending....?"¹⁰ It is no wonder that this passage, as well as one which describes Richard Owen as "wonderfully clever in his malevolence,"¹¹ usually were deleted silently from the earlier published versions of Darwin's letters -- this is all the more reason for including them here.

To complement such insights and revelations, there is much autobiographical matter in the letters. It might be used to construct a reasonably good record both of Darwin's face-to-face encounters with his colleagues and of the content of such meetings.¹² Often the letters record Darwin's whereabouts, which information is especially useful in determining the dates of Darwin's frequent one-day trips into London -- something not systematically recorded elsewhere.¹³ Moreover, the letters constantly remind us that Darwin was as much a family man and a medical patient as he was a naturalist and a scientist, and they show how these different aspects of Darwin's life tended to interact. For example, in 1860, Darwin's daughter contracted remittent fever, and the family was forced by their concern for the young girl's life to remove to a healthier climate than that found at Down. While thus away, Darwin found himself unable to continue the research he had been conducting at home, so he filled his idle time by examining the sundew, an insectivorous plant common to the area being visited. This work eventually led to the publication of an entire book on insectivorous plants, and one could therefore argue the extreme externalist position that illness had been the cause for its appearance.¹⁴

Still another type of correspondence consists of purely business letters, which range from orders and acknowledgments of books and reprints -- data valuable to scholars -- to routine details such as the addition of a wing to Down House in 1876-1877 or the purchase of medical supplies.¹⁵ Such routine letters show, if nothing else, Darwin's meticulousness, and they are sometimes useful for dating other Darwin letters of greater import.

Need to Publish Letters

To a certain extent, scholars have been reaping benefits from Darwin's letters for long time, since the bulk of Darwin's most important letters have been in print for well over fifty years, and additional letters have been published from time to time ever since.¹⁶ One might well ask, then, why a calendar of 700 more letters is necessary, especially since portions, at least, of roughly half of the letters in the American Philosophical Society's collection have already been printed. Several different responses can be given to this question.

Most importantly, there is the problem of selection criteria in the major published collections of Darwin's correspondence. The three works which contain published versions of many of the items calendared below (as well as a great many other Darwin letters) provide only a selection of Darwin's correspondence, and those letters which are included are usually not transcribed in full. In all three of these works, the choice of both which letters are to be included and which portions of the chosen letters are to be printed has been colored by the motives of the editors. As these motives are not those of historians today, there

are limitations -- some of them severe -- to the usefulness of these works as definitive references for modern scholars. To illustrate the point: "In choosing letters for publication," says Darwin's son Francis in the opening line of the preface of his edition of his father's *Life and Letters*, "I have been largely guided by the wish to illustrate my father's personal character." In some cases, such guidance led him to give a relatively low priority to the illustration of Darwin's scientific work, and in most cases, it meant deleting family matters as well as derogatory remarks and other embarrassing details.¹⁷ *More Letters*, edited by Francis Darwin and A. C. Seward, somewhat redresses the balance; its editors say that they prepared the volumes "to give as full an idea as possible of the course of Mr. Darwin's work," and they state further that their compendium contains "practically all the matter that it now seems desirable to publish. But," they continue, "at some future time others may find interesting data in what remains unprinted; this is certainly true of a short series of letters dealing with the Cirripedes, which are omitted solely for want of space."¹⁸ Similarly, in the preface to her two-volume biography of her mother, which contains 66 of her father's letters, Darwin's daughter, H. E. Litchfield, confesses that she began to prepare a record of her mother's life because she thought it would be "of value to her [Emma Darwin's] grandchildren," and then she altered and enlarged the scope of the book as she became interested in "the personalities of the writers" of the letters printed therein.¹⁹ While such criteria of inclusion and exclusion were perfectly respectable and common in their day, and scholars have profited greatly from all these works despite their limitations, there is still a need to treat Darwin's letters more systematically, particularly with the needs of historians of science and other scholars in mind.

A still more serious indictment of the principal sources of Darwin's correspondence is that those letters which do appear in them were not edited according to rigorous modern standards. "In printing the letters," Francis Darwin confesses about the *Life and Letters*, "I have followed (except in a few cases) the usual plan of indicating the existence of omissions or insertions." One wonders what the "few cases" were, and exactly how few they were. "I have not followed the originals," he continues, "as regards the spelling of names, the use of capital letters, or in the manner of punctuation."²⁰ Similarly, in *More Letters*, "dots indicate omissions, but many omissions are made without being so indicated."²¹ In *Emma Darwin*, "many omissions are made without putting any sign that this has been done. Neither the punctuation nor the spelling has been rigidly followed. But the sense has never *wittingly* been altered, although occasionally a word *evidently* omitted has been added without putting any sign that this has been done."²²

In addition to the problems relating to the imprecise editorial standards of these works and to standards of letter selection which stress Darwin's character to the neglect of his career and other aspects of his life, some scholars may have difficulty in using these works because: the letters are not placed in chronological order; in far too many cases are incorrectly dated or are not dated at all²³; and the indexes are inadequate.

To a certain extent, these final criticisms can also be levelled at some of the small selections of Darwin letters published as journal articles with increasing frequency since the centennial of the publication of the *Origin* in 1859.²⁴ Moreover, the quality of the transcriptions in some of these articles is not very good.²⁵ While this calendar will not rectify all of these problems (most notably because it contains a rather small and arbitrary selection of those letters published in these articles), it should clarify all such problems

for the letters with which it deals. Moreover, use of this calendar should at least streamline the kind of research which can be conducted only while one is visiting the Society's archives. This should save much research time.²⁶

Nature of the Society's Darwin Collections

To a first approximation, Darwin's correspondents can be grouped according to their relationship to Darwin and their function as contributors to his work. A look at a few of these various types of correspondent may help readers to obtain an overview of the Darwin collections calendared here.

Among the correspondents, there are at least six types. 1. Members of the Darwin family. Letters to and from these persons are sometimes the most intimate of all of Darwin's letters, but they are not so numerous as letters to and from some correspondents in the other groups discussed below. This is probably because of Darwin's proximity to his family -- except, of course, during his early life, particularly during the voyage of the *Beagle*, when letters home to his sister are some of the most revealing letters Darwin ever wrote. 2. Confidants, friends, and close colleagues. These persons were the figures most closely associated with Darwin's everyday work, and the letters to them are the most useful for historians. In some cases, because of Darwin's removal from London and need to keep in close touch with his most trusted colleagues, the collected letters to these figures form an almost daily record of Darwin's life and work. 3. Other colleagues. These were scientists, naturalists, and the like with whom Darwin had only professional relations. Although somewhat less cordial than letters to confidants, correspondence with other colleagues is similar in substance to that with confidants. 4. Informants. These were rather special colleagues who supplied the sedentary Darwin with the observations and other data needed to test various aspects of his scientific theories. Darwin was careful in his selection of informants; he always checked to be certain that each one was an expert in the subject about which he was inquiring. Darwin had such informants in all corners of the world, but he also called upon nearby friends, relatives, former schoolmates, and acquaintances for information on topics about which such persons had some knowledge. 5. Business associates. This category includes booksellers, publishers, chemical suppliers, solicitors, architects, and the like. Correspondence with them is sometimes useful as a record of Darwin's activities, especially as an indicator of Darwin's reading, and it usually shows Darwin's attention to detail. 6. Unsolicited correspondents. From such persons Darwin received many letters, notes, and specimens. These ranged from crank mail to information on scientific curiosities about which Darwin showed great interest.

All six of these groups are represented to a greater or lesser degree in the American Philosophical Society's collections, and since some of the finest examples are not easily identified by perusal of the calendar, given its chronological format, they are discussed below. Unfortunately, they give a necessarily one-sided view of the relationship between Darwin and his correspondents, because there are only eleven letters *to* Darwin in the Society's collections.²⁷

At the core of the Library's holdings are the letters to Charles Lyell, the father of uniformitarian geology and Darwin's "Lord Chancellor" for science.²⁸ Until his death in 1875, Lyell was one of Darwin's closest confidants. Many of Darwin's letters to him have been published, although most of the passages concerning geology, as well as a few other crucial sentences here and there, have been excised from the printed versions. Some of the unpublished letters are also of importance.

The calendar lists an unusually rich correspondence with two other confidants: George John Romanes, the physiologist, and John Maurice Herbert, one of Darwin's schoolmates at Cambridge. Begun in 1874, the Darwin-Romanes correspondence warmed over time, as Darwin came to trust and admire this young colleague. In a sense, Romanes filled a gap for Darwin which was created with the death of Lyell in 1875, although in the Darwin-Romanes relationship the roles of elder and follower were reversed for Darwin from what they had been with Lyell. The letters to Romanes are replete with details about Darwin's pangenesis hypothesis and the experiments designed by the two men to test it, as well as much material on animal intelligence, spiritualism, and other topics. The letters to Herbert begin as early as 1828 and provide important insight into Darwin's early life, including his voyage on the *Beagle*. While some of these letters have been published, a few significant portions of them have not, and readers with a particular interest in the views of the young Darwin will probably want to study the Herbert entries in the calendar with extra care.²⁹

Informants are almost as well represented in the calendar as are confidants. The Library has a particularly good collection of letters to George Henry Kendrick Thwaites, the Ceylonese naturalist, concerning the flora and fauna of Ceylon and India as well as the expression of the emotions of savages in these regions. The collection illustrates well both the questions Darwin asked and the answers he expected to receive. The correspondence with Thomas Campbell Eyton, another of Darwin's schoolmates at Cambridge, is of similar interest, especially on topics relating to osteology and other morphological similarities, dispersal mechanisms, and domestic varieties. Both the Thwaites and the Eyton letters are indicative of the methods of gathering data used extensively by Darwin during and after the *Origin* period (ca. 1854-1875); the earlier part of these years, of course, represent Darwin's most important fact-gathering episode since his return from the *Beagle* voyage.

The collections of letters to the correspondents named above by no means comprise all of the Library's Darwin holdings, of course. There are a great many other letters, sometimes in groups to a single correspondent (e.g. to Philip Lutley Sclater or to John Phillips) and sometimes scattered through miscellaneous correspondence. Only careful reading of all the letters in a given period will give scholars a genuine feel for the totality of Darwin's life and work.

Choosing the Calendar Format

In choosing the calendar format for this guide, the primary objective has been to bring scholar and documents as close together as possible, given the restraints of economy, of time, and of the unique character of the originals. Almost thirty years ago, the usefulness of a calendar for achieving this objective in situations such as exist with the Darwin letters at the Society was summed up well by archivist and local historian Morris L. Radoff of the Maryland Hall of Records:

This calendar is somewhat more extensive than most. A description of this more extensive type of reference work and a justification for its employment in this instance are summed up well in the *Harvard Guide to American History*:

Resolving the Dating Problem

Anyone who has worked with Darwin's letters knows how difficult it often is to assign a correct and exact date to each of his letters. Francis Darwin and A. C. Seward stated the problem well when they wrote that

"Mr. Darwin, who was careful in other things, generally omitted the date in familiar correspondence, and it is often only by treating a letter as a detective studies a crime that we can make sure of its date." ³² For a compiler of a calendar of Darwin's letters, of course, the inconsistent dating creates the same problems and puzzles that Francis Darwin faced, and, like him, one has to employ a variety of methods of dating that would do honor to Sherlock Holmes. The usual techniques involving watermarks, postmarks, content analysis, and handwriting analysis were sufficient in most cases, but even after such methods had been employed the dates on a number of letters remained ambiguous.

Fortunately, study of the variant addresses appearing in the headings of almost all Darwin letters written since 1842 has allowed the dating of most of the letters in the calendar, at least to within a few years.

³³ The research on this subject, conducted in collaboration with Thaddeus J. Trenn, University of Regensburg, indicates that Darwin used at least nine variant letterhead addresses for his home in Down as tabulated in the table below and illustrated in Figure 2.

Address variants

Type	Address Variant	Dates Used
Type 1:	Down near Bromley Kent (written)	1842 to 1845
Type 2:	Down Bromley Kent (written)	1843 to 1846 and 1855 to 1861
Type 3:	Down Farnborough Kent (written)	1846 to 1855
Type 4:	Down. Bromley. Kent. S.E. (printed)	1861 to 1869
Type 5:	Down. Beckenham Kent. S.E. (printed, with Bromley crossed out and Beckenham added in writing)	1869 to 1871
Type 6:	Down, Beckenham, Kent. (printed)	1871 to 1875
Type 7:	Down Beckenham Kent (written)	1874 (briefly)

Type	DOWN, BECK <i>ENHAM</i> , KENT RAILWAY STATION	1874 to 1881
8:	ORPINGTON. S.E.R. (printed)	
Type	DOWN, BECK <i>ENHAM</i> , KENT (RAILWAY STATION	1878 to 1882
9:	ORPINGTON. S.E.R.) (printed, with parentheses added in writing)	

(The end points for these dates were determined by recording the addresses and the dates for all unambiguously-dated Darwin letters which could be found, both here and at Cambridge University Library -- probably about 1,000 letters in all. A plausible explanation apparently can be advanced for every change of address, and in most cases, the switch from one address type to another is sudden. For the purposes of dating the letters in this calendar, however, the greatest possible latitude in the beginning and final dates of use of each variant has been assumed; this has produced the overlaps in the time periods given above. The research on the variant addresses continues, and the final results will probably be published elsewhere.)

One final note about dates is necessary. Often the date assigned to a particular letter in this calendar will differ by a few days from the date given in a published version of the same letter, especially those published versions appearing in *Life and Letters* or *More Letters*. This is because the editors of these works often used the date of receipt of a letter, taken from the endorsement, rather than the actual date on which the letter was written.³⁴ In cases in which Darwin gave some reference to the day of the week on which the letter was written, it has been possible to determine the date of writing by reference to a perpetual calendar. In such cases, the correction of the date has been made silently.

Purists might not find this calendar to their liking. It deviates from traditional practices³⁵ in a number of details, from the distinctive overall format of each of its entries to an unusually liberal use of brackets and inverted commas. These innovations have been dictated by the uncommonly uniform nature of the items analyzed (almost all of them letters written by Darwin), by the peculiar characteristics of Darwin's letters, and by the unique needs of Darwin scholars. In the case of each uncommon procedure, a conscious determination was made that the benefits to be derived by departure from standard practice outweigh the perils and bother incumbent upon readers who must first school themselves in so many unorthodoxies.

Rules followed and usages observed are explained below, in five sections: format of entries -- an extended guide to most of the practices followed; editorial conventions (i.e. treatment of orthography, punctuation, obsolete grammar, and the like in quoted passages); textual devices; descriptive abbreviations of items (e.g. ALS); and printing conventions. The first section, on format, explains what material is discussed in the four sections that follow it. Illustrations of sample manuscript letters are provided (Figs. 3 and 4), so that users may see for themselves how various situations were treated editorially.

The calendar consists of a series of entries numbered consecutively in the left-hand margin. Except where noted, each entry represents one letter or other manuscript item, plus all accompanying enclosures, sketches, and the like. Unless indicated otherwise, all enclosures are in Darwin's hand, unsigned, and on approximately the same size and type of paper as the letters with which they are enclosed. Each entry

consists of four parts: date; description of item(s); abstract, including publication information, if any; and annotations, if any. Each section is separated from the others by a blank line; otherwise, the entries are single space.

Arrangement of the parts of the entry in this way was decided upon to facilitate special treatment of certain unique aspects of the Darwin materials. Although the date of an entry is usually placed in the margin in other calendars, it has been given its own line in this calendar so that endorsements, postmarks, and watermarks could be included in full; scholars long accustomed to undated or ambiguously-dated Darwin letters will find this feature useful for checking the dates assigned to undated or incompletely dated letters. The part consisting of the date always contains the year, month, day, and (if provided by Darwin) the day of the week, in that order, on which the letter was written, followed by endorsements, postmarks, watermarks, and other information pertaining to date; such additional dating aids are always given as nearly exactly as possible to how they were on the original, and they are preceded by abbreviations identifying each (e.g. "wmk." precedes the watermark). Editorial conventions and textual devices used with the date are discussed below in two special sections on such matters.

The description, comprising the second part of each entry, is in two sections. The first section gives, as a first element, the full name of the other principal for the item besides Darwin, and it indicates whether this person is the author or the recipient of the item. This first element would thus read "To Charles LYELL" for a letter from Darwin to Lyell. Note that the last name of the principal is given entirely in upper case letters to facilitate scanning of the entries. (This is only done for individuals.) The second element of the first section of the description provides Darwin's address at the time of writing, as indicated by Darwin himself at the head of each letter. If the address is one of the variants of Darwin's Down address, it will be given as "Down", followed by an indication of the number of the variant type that appears (see p. xxiii, above). Thus, if Darwin wrote "Down Bromley Kent" on a given letter, for example, this will be indicated by "Down (type 2)". If Darwin's whereabouts are not indicated, this will be signified by "no location". If the stationery used has a black mourning border, or if an ink of a distinctive color was used by the author in the writing of the letter, this will be noted in parentheses following the indication of Darwin's location. The two elements of the first section are separated from each other by a semicolon.

The second section of the description begins a new line below the first section. It consists of three parts: the descriptive abbreviation for the item (e.g. ALS); the dimensions of the item, in inches, with vertical dimension given first³⁶; and the number of pages of text, rounded up to the nearest whole number of pages. Descriptive abbreviations used are discussed in a separate section below. If there is an envelope, enclosure, or sketch, or if there is an address for, or an endorsement by, the recipient, this will be indicated following the number of pages. If the text of the letter indicates that there should be an enclosure, but there is none, this will be indicated by the phrase "(enclosure wanting)" following the number of pages. If the address for or the endorsement by the recipient *occupies a separate page* from the pages of text, indication of such address or endorsement will be separated from indication of the number of pages by "and". If such address and/or endorsement is written *on the same page* as a page of text, indication of such address or endorsement will be separated from indication of the number of pages by a comma. Thus, if a four-page letter, for example, has an endorsement on the top of the first page, above the text, it will be indicated "4p., end."; if the endorsement is on a separate, fifth page, it will be indicated "4p. and end." In other words, readers should always assume that the use of a comma in this instance means that the additional portion of the item is substantively, but not physically, distinct from

what precedes the comma; use of the word "and" instead of a comma means that the additional portion is both substantively *and* physically distinct.

When there is either an address for Darwin's correspondent or an endorsement, it is reproduced fully in brackets following the indication of its existence. As there is such a large number of misspellings in these addresses and endorsements, "*sic*" was not employed to indicate them. Readers may assume a misspelling to have been made by Darwin or his correspondent. No attempt was made to identify with certainty the handwriting of endorsements, although those endorsements provided in the calendar are usually in the hands of Darwin's correspondents. As in the case of the date for each item, editorial conventions and textual devices used in the descriptive part of each entry are discussed below in the special sections on such matters.

The third part of each entry contains the abstract -- the real meat of the item. Radoff claims that "the question of how full the abstract should be has long been the *bC*te noire* of calendarers,"³⁷ and no statement about calendaring could be truer. After much consideration, reasonably full abstracts were deemed desirable, but a price -- namely the deletion of all textual matter which is published faithfully elsewhere and the rendering of the remaining textual matter in a complex way which is not exceptionally easy to read -- had to be paid for this comprehensiveness, so that the length of the calendar would not be prohibitive. Accordingly, if it is known that the item or any part of it has been published, a simple reference to the location of the printed text will be made in lieu of an abstract of this portion of text. As the completeness and the accuracy of such printed texts varies considerably, however, a series of standardized phrases are employed in the references to the locations of the printed texts, and substantive corrections are supplied. These standardized phrases -- arbitrarily designated as "printing conventions" -- are designed to convey a rough idea of the accuracy and the completeness of the printed texts; they are discussed below in a special section. The substantive corrections -- including abstracts of substantive deleted portions -- follow reference to the location of the printed text. Corrections are keyed into the printed text by reference to the page and line of printed text being corrected. If necessary to avoid ambiguity, the exact location within the given line also is provided. When there is other material on the same printed page as a letter which is being corrected, and a correction is indicated for, say, line 15, the reader should begin counting lines only where the text of the incorrect letter begins: in other words, in this case "line 15" means "line 15 of the letter being corrected," not "line 15 from the top of the page."

If no published version of any part of the item is known, an abstract of the entire text is provided. The abstracts treat every topic in the original texts; topics are usually (but not always) presented in the order in which Darwin presented them. Each abstract consists of a series of statements (not necessarily whole sentences) connected by semicolons. When a clause begins with a singular indicative verb (e.g. "asks") and no subject of the verb is given, Darwin is implied as the subject. When the verb is not singular and indicative (e.g. "ask"), it should be read as a command to the recipient. Substantial quotation is employed. Superscript arabic numerals in this and the preceding parts of each entry indicate substantial editorial additions and refer to the correspondingly numbered notes in the fourth part of the entry. Other editorial conventions and textual devices employed in this part of each entry are discussed below in special sections.

The fourth and final part of each entry consists of annotations to the preceding three parts. An effort was made to identify every reference to persons, places, things, publications, and events; if any of these is not identified clearly in an entry, the reader can assume that research upon it proved unsuccessful.

Annotations contain the minimum of explanation or interpretation, for this is not the responsibility of an editor; primary objectives of the calendar annotations were identification and description.

Biographical information is not provided in the annotations to each entry, as this would have necessitated a great many biographical notes for each person, one for each entry in which he or she is mentioned. Instead, biographical information is provided in the biographical notes following the calendar.

Numbering of the annotations begins afresh for each entry. Sometimes one note (usually the first one) relates to more than one location in the entry, usually because a single annotation can explain how both the date and the recipient of the item were determined in the absence of explicit information in the original. To save space, and to avoid an excessive number of annotations, certain information such as Christian names and titles of books are provided in the abstract rather than in the notes wherever this information can be worked into the abstract reasonably smoothly. Use of the word "perhaps" in a note indicates that the material in the note is conjectural.

To some degree, the letters annotate each other, since there is often a run of letters on the same subject. Cross-references between two or more letters in which the same subject is discussed are kept to a minimum. Generally, those letters which are obviously part of a series of exchanges between Darwin and a given correspondent on some *particular* and *very definite* topic are referred only to the *next earlier letter* on the same topic. This allows readers to trace an exchange on a given topic backwards through time, once the last letter of the series is found.

Should readers wish at this time to see an example of the layout of the four parts of each entry, a good letter for study is that to Lyell dated August 25, [1845]; its entry is on page 18 below, and the first page of the manuscript letter is reproduced as Figure 3. This letter not only provides an example of the four parts of each entry but also allows readers to compare a typical calendar abstract against the original manuscript, thereby getting some notion of the thoroughness and reliability of the abstracts.

Additional discussions of minutiae of editorial policy appear at the head of the list of acronyms, abbreviations, and short titles given below, as well as at the head of the biographical notes following the calendar. Finally, in those few locations where editorial additions might easily be interpreted as part of the original item, the initials of the editor ("PTC") have been added to identify the material as editorially added.

A calendar, unlike a letterpress edition, provides comprehensive faithfulness to the original manuscript only in certain portions of each entry. This imposes upon the calendarer the additional preliminary editorial chore of indicating precisely which parts of each entry are direct quotations from the original and which are not. In this calendar, an attempt has been made to preserve in each entry as much as possible of the original manuscript.

Subject to the editorial conventions to be outlined below, the following portions of each entry are to be considered as exact transcriptions from the original Darwin letter: the date (i.e. the first part of the entry), including watermarks, postmarks, and endorsements; the name of Darwin's correspondent (i.e. the first element of the first section of the description); Darwin's address (i.e. the second element of the first section of the description), except where the address was a variant Down address, in which case the shorthand form described earlier is used; the endorsement and the address of Darwin's correspondent, if these are provided in the original; those portions of the abstract which are enclosed in inverted commas (hereafter referred to as "quoted portions"); and the factual data (dates, names, titles of books, etc.) in

those portions of the abstract *not* enclosed in inverted commas (i.e. "unquoted portions"). Only the earliest decipherable postmark is provided, and only that portion of a watermark indicating the date is given.

In each of these exactly-transcribed locations -- with the exception of addresses, endorsements, postmarks, and watermarks, which are discussed below -- the following rules apply: if the word, phrase, or clause is doubtful, the passage in doubt is enclosed in brackets and *followed* by a question mark ("?"). When more than one reading is plausible, the several readings are all enclosed in a single set of brackets, and each reading is followed by its own question mark (e.g. "[these? those?]"). Editorial additions are enclosed in brackets *without* a question mark. If the editorial addition is conjectural, it will be enclosed in brackets and preceded by a question mark. Deletions from the text are denoted by ellipsis points ("..."). Passages in parentheses are parenthetical matter from the original. See the section of textual devices below for a graphic representation of these rules.

Exception to these rules must be made in the case of addresses, endorsements, postmarks, and watermarks because, although they are faithful transcriptions of the original manuscript, these elements are always enclosed within brackets, as a matter of course, in order to set them off from contiguous matter of a different nature. To be specific, watermarks and postmarks are given with the date provided by Darwin; they are enclosed in brackets to prevent their being confused with the date which Darwin himself wrote. Similarly, addresses and endorsements are inserted as part of the description of the item; they are bracketed to set them off from this descriptive matter, the latter having been added editorially. In these special cases, matter in *parentheses* consists of either portions which are added by the calendarer, are dubious readings, or are found in parentheses in the original; which of these alternatives applies in each case is either clear from the context or is explained by a note.³⁸ Also, in these places where the bracket rules are exceptional, deletions are still denoted by ellipsis points and question marks preceding and following passages have the same meaning as in other locations. In the address for and the endorsement by Darwin's correspondent, as well as in the postmark, transition from one line of manuscript to the next is indicated by the slash ("/"); these transitions are not noted in any other portion of each entry.

In *all* locations, titles of office, such as "Mr.", "Mrs.", "Capt.", or "Sir", are omitted except in cases in which Darwin gave such titles in the original and the title is or may be important in identifying the person to whom it refers. Also, occasionally a title of office (esp. titles of rank or royalty such as "Captain", "Colonel", or "Lady") will be retained to set endpoints for an otherwise undated letter by reference to the years during which the person had the title. (This only works, of course, if the person in question was elevated to a higher rank at a later time; otherwise, one might keep the same title for life.)

Names of persons are given fully enough in each location in which they appear so that a positive identification can be made. Those parts of the full name not provided by Darwin are, of course, enclosed in brackets. Sometimes, when necessary to distinguish between two persons with the same name (e.g. father and son), a title of honor or other distinguishing appellation will be annexed in brackets to the name, even if the title had not been conferred at the time the letter was written. An example of such an anachronistic usage is the addition of "Baron Avebury" to the name of John William Lubbock the younger (1834-1913) whenever it appears in letters written before he became a baron. Another anachronistic practice is the inclusion of a woman's married name before the date of her marriage (e.g. "Henrietta Emma Darwin Litchfield" before her marriage to Litchfield). In the case of multiple appearances of the same person's name in a single letter, the full name will be given only at the first encounter; succeeding references will be to surname only.

In the quoted portions of the abstract, Darwin's marginal notes, postscripts, stray marks, and marginal additions are inserted into the text of the letter without comment if the proper and precise location for them in the text has been indicated by Darwin and is readily identifiable. Otherwise, editorial comments describe roughly where such passages appear in the manuscript. In contrast, extraneous marks made by unknown third parties or by autograph dealers, or numbers and names written by Francis Darwin as part of his compilation scheme for *Life and Letters* (e.g. the "Denny 5" at the top of Fig. 2a) are not recorded.

³⁹ In some cases, deciding whether a stray mark was an endorsement or an extraneous mark of some later handler was very difficult, and a subjective decision had to be made; at all times, an effort was made to be as systematic as possible.

Darwin's cancellations (i.e. strike-outs) generally are omitted silently from the quoted portions, since they are usually trivial. In those few cases where a cancellation is retained, it is enclosed in brackets with an editorial comment indicating that it is a cancellation. Passages inserted between lines by Darwin are inserted silently into the text whenever Darwin indicated that they should be inserted.

The original punctuation, grammar, capitalization, and orthography are retained in all passages which are transcribed exactly from the original, with the following exceptions. Superfluous dashes at the close of sentences are usually deleted silently, although a few are kept to retain the Victorian flavor. Colons at the ends of abbreviations are changed to periods. Raised or superscript letters, such as were often found at the ends of abbreviations in nineteenth century correspondence, are silently lowered. Ligatures are silently expanded to two letters, and the elongated "s" is modernized silently. The ampersand ("&") and forms based upon it, such as "&c." for "et cetera", are retained. Other abbreviations in the original are usually expanded, with the added portions enclosed in brackets; in such cases of expansion, the period at the end of the abbreviation is silently deleted.

These few rules help keep the quoted portions as close to the original as is reasonably possible. The reason for such excessive faithfulness to the manuscript is that, since Darwin's penmanship is so poor, a great amount of deviation from the original might make it difficult for scholars unfamiliar with Darwin's hand to trace back from the choppy text of the abstract to either the original manuscript or a facsimile of it. ⁴⁰ Such difficulty would be compounded, of course, if the scholar could see only a photocopy or microfilm, since -- unavoidably -- such facsimiles are often somewhat less readable than the already difficult manuscript. In some cases, however, such meticulous faithfulness to the original forces deviations from standard practices (e.g. titles of books not underlined). These are allowed to stand without comment where their meaning is not ambiguous; if there is any question as to Darwin's meaning (e.g. if the word "Origin" may or may not refer to the *Origin of Species*), any information which could be found to resolve the ambiguity is added in brackets or in a note.

Regarding unquoted portions of the abstract, the original phraseology of the item is often employed without comment, in an effort to minimize the distortion that inevitably results from summarization. In such unquoted portions, spelling, punctuation, and capitalization are modernized and converted to American forms.

Examples of the application of many of these editorial conventions can be observed by comparison of the following three versions of the letter from Darwin to Lyell, Friday, [June 25, 1858]: 1) the calendar entry, page 56; 2) the first five pages of manuscript for this letter, reproduced as Figure 4; and 3) the printed text on pages 117-18 of volume 2 of *Life and Letters*. This will show the relative thoroughness with which a

printed text has been corrected in the abstract, the relative faithfulness with which the quoted portions of the abstract follow the original text, and the relative amount of condensation which occurs when passages of the original are reduced to unquoted portions of the abstract.

Textual Devices

...	Portion of original text is deleted.
/	End of a manuscript line; used only for postmarks, and for addresses of and endorsements by Darwin's correspondents.
[]	Editorial addition.
[?]	Conjectural reading.
[?]	Conjectural editorial addition
()	Parenthetical marks found in original text, <i>except</i> when used in conjunction with addresses, endorsements, postmarks, and watermarks. (See text for explanation of these exceptions.)
[CD brackets]	Bracketed entry which immediately precedes this textual device is a bracketed parenthetical remark in the original text.

Since many of the letters in the calendar have been published in whole or in part, and since both the completeness and the accuracy of these printed versions vary considerably, the following conventional phrases have been employed to indicate roughly how well the printed versions resemble the original letters. The conventions were devised so that -- in the absence of contrary indications -- the reader may assume that only a part of the item being calendared has been printed. The reader may further assume that no alterations of the original text have been made in the printed version; if, on the other hand, alterations *are* indicated, the reader may assume that these changes are of a serious nature, unless a contrary indication is provided. The conventions are listed in descending order of resemblance to the original (assuming changes to be more odious than omissions):

Printed in facsimile	The manuscript letter is photographically reproduced.
Printed in full	The item is fully and faithfully transcribed in the printed version.
Printed in full, with minor changes	The item is fully transcribed in the printed version, but changes in such details as punctuation, spelling, capitalization, inclusion or deletion of articles of speech, or ungrammatical usages have been made without comment; in some cases, minor words may be incorrectly transcribed, but no alteration of Darwin's intended meaning has resulted.
Printed, with minor changes and minor omissions	The item is almost fully transcribed in the printed version; those portions which are missing are not significant and do not concern a subject not mentioned in the printed version; those portions which are printed contain changes in the text as described in "Printed in full, with minor changes" above.
Printed	The item is not fully transcribed in the printed version; those portions which are missing are significant and/or concern a subject not mentioned in the printed version; those portions which are printed are fully and faithfully transcribed.
Printed, with minor changes	The item is not fully transcribed: missing portions are significant and/or concern a subject not mentioned in the printed portion; those portions which are printed contain changes in the transcript as described in "Printed in full, with minor changes" above.

Printed in full, with changes

The item is fully transcribed, but serious changes have been made which may affect the meaning of all or part of the text.

Printed, with changes and minor omissions

The item is almost fully transcribed; missing portions are not significant and do not concern a subject not mentioned in the printed portion; those portions which are printed contain changes in the transcript as described in "Printed in full, with changes" above.

Printed, with changes

The item is not fully transcribed; missing portions are significant and/or concern a subject not mentioned in the printed portion; those portions which are printed contain changes in the transcript as described in "Printed in full, with changes" above.

Corrections provided in the abstracts are designed to rectify the changes and major omissions. When a major omission has been rectified in the abstract, the printed version is described as having only minor omissions.

Administrative Information

Publication Information

American Philosophical Society 3/2002

Provenance

Acquisition Information

Acquired, 1950s to present.

Processing Information

The *Annotated Calendar of the Letters of Charles Darwin in the Library of the American Philosophical Society* was edited and annotated by P. Thomas Carroll, with a foreword by Frederick Burkhart.

The print edition was published by SR Scholarly Resources Inc. in 1976.

Address:

Scholarly Resources, Inc.
1508 Pennsylvania Avenue
Wilmington, Delaware 19806

The Library of the American Philosophical Society took its first step toward assembling a collection of manuscripts and books relating to Charles Darwin and evolution in 1950. In that year, at the suggestion of William E. Lingelbach and with the support of Edwin G. Conklin, librarian and president respectively, the Society purchased at auction in London 177 letters from Darwin to Sir Charles Lyell and some 277 more to Lyell from other British and European scientists. Copies of the letters were deposited in the British Museum, and the originals became the nucleus of the Society's Darwin collection. (See Edwin G. Conklin, "Letters of Charles Darwin and Other Scientists and Philosophers to Sir Charles Lyell, Bart.," *Proc. Am. Phil. Soc.*, 95 (1951): 220-22.)

To extend the collection Dr. Lingelbach asked the assistance of Dr. Loren C. Eiseley, who was then writing *Darwin's Century*. For some years Dr. Eiseley systematically scanned catalogues, made lists of desiderata, and, on visits to booksellers here and in England, purchased books by and about Darwin. Meanwhile the Library continued to acquire letters of Charles Darwin and other 19th century naturalists until it now has almost 700 by Darwin alone.

In 1973, the preparation of a calendar was begun by the Library in the belief that scholars could use a guide that was something more than a list but short of fully edited transcriptions of the Darwin letters. The

work has been supported by a grant from the Andrew W. Mellon Foundation and it is now published with the approval of Mr. George P. Darwin.

The calendar was prepared by P. Thomas Carroll. Besides providing concise descriptions of the contents of unpublished letters, Mr. Carroll has indicated when changes were made in published versions, corrected erroneous transcriptions and added notes. A particularly important contribution of this calendar is the method Mr. Carroll and a colleague, Professor Thaddeus Trenn, have devised for dating the letters more accurately. All Darwin scholars are familiar with this difficult problem and all of them will appreciate help with it.

The present volume contains a substantial portion (about 15%) of all the Darwin letters that have so far been located. A search is now in progress to find as many more as possible for a "Collected Letters of Charles Darwin" of which I am a Co-Editor with Dr. Sydney Smith of St. Catharine's College, Cambridge. On the basis of my experience, I can attest to the skill and thoroughness with which Mr. Carroll has dealt with the many difficulties that confront an editor of Darwin's correspondence.

Scholarly interest in Darwin has been growing steadily in recent years and the Library of the American Philosophical Society has become a center of Darwin research on this side of the Atlantic. The present volume is thus a welcome introduction to a collection that has become an indispensable resource for research on the life and work of Charles Darwin and the history of the theory of evolution.

Related Materials

Related Material

Although Darwin's correspondence is very widely dispersed, the largest collection of Darwin Papers is housed at the Cambridge University Library (<http://www.lib.cam.ac.uk/MSS/Darwin.html>). Cambridge hosts an on-line calendar of Darwin correspondence at <http://www.lib.cam.ac.uk/Departments/Darwin/calintro.html>.

The Getz Collection (B D25.m) contains additional Darwin Papers, and the Library houses the complete files of the Darwin Papers Editorial Project (Ms. Coll. 28) (including photocopies of all extant Darwin letters) and microfilm of Darwin materials held at Down House (films 496,13; 496,14), along with material relating to Erasmus Darwin and other members of the Darwin family.

In addition to manuscript letters to and from Charles Darwin, several other items in the Library of the American Philosophical Society may be of interest to the Darwin scholar. These are discussed below in more-or-less general way which, although not a comprehensive list, should give readers some idea of the nature of these collections. The items are discussed in groups, by type of document.

Manuscript items

Included under this rubric are three types of documents:

- 1 the correspondence and other papers of those people who corresponded with Darwin--all of it relating directly to manuscript letters calendared above;
- 2 autograph documents from Darwin's own papers or from others, but relating directly to Darwin and not connected to any of the manuscript letters calendared above; and

3 manuscript correspondence to and from other members of the Darwin family besides Charles Darwin.

There are seven items of the first type. All of these pertain to the case of the inheritance of an injury in a goose, as related to Darwin by Reuben A. Blair in the correspondence with him calendared above. The documents are: 1) a photograph of the deformed goose; 2) a letter from Blair concerning the goose and printed in the *Sedalia Democrat*; 3) a letter from William Henry Flower to Blair; 4) the report by Flower and his assistant, Dr. Larson, on the wings of the affected geese; 5) a letter from Blair to an unnamed correspondent; and 6) letters exchanged between Blair and Spencer Fullerton Baird of the Smithsonian Institution.

There are twenty items of the second type. These documents are: 1) five leaves from the manuscript of the *Origin of Species*; 2) a signed page from the manuscript of the *Descent of Man*; 3) a signed page from some other Darwin manuscript (discusses *Catasetum*); 4) a printed petition for the endowment of research, issued by J. Norman Lockyer and C. E. Appleton, and signed by Darwin; 5) the final page of the petition for a pension for Alfred Russel Wallace, signed by twelve persons, including Darwin; 6) sketches of Darwin, his wife, grandson, and dog, by Albert Goodwin; 7) documents pertaining to Darwin's funeral in Westminster Abbey (eleven items); 8) inscription from the Carroll # 372 statue of Darwin at Oxford University; 9) a discussion of Darwin's B: D25.176 religion by H. Buxton Forman; and 10) a pass to the Zoological Gardens, issued to James Gough by Darwin.

There are 44 items of the third type, which is too many to list individually here. Members of the Darwin family involved in this correspondence are: Emma Wedgwood Darwin (two letters, correspondence with Mrs. Georgiana Rosetta Smyth Flower and with John Maurice Herbert); Francis Darwin (39 letters, correspondence with Leo Abram Errera, George John Romanes, Thomas Roscoe Rede Stebbing, and Otto Zacharias); and George Howard Darwin (three letters, correspondence with F. W. Surman and Otto Zacharias).

Photocopies of manuscript items

The Library has 26 documents pertaining to Darwin, the originals of which are located elsewhere; only photographically-reproduced paper copies of the documents are at the APS. These fall into two categories: photocopies of manuscript correspondence with Darwin; and photocopies of Darwin-related documents from the papers of Darwin correspondents. In the first category, there are copies of correspondence with the College of Physicians of Philadelphia (one letter), Ignatius Donnelly (two letters), Hugo de Vries (one letter), Benjamin Dann Walsh (eighteen letters), and Jeffries Wyman (two letters). In the second category, there is a photocopy of a letter from Frank J. Mead, editor of the *Minneapolis Evening Times*, to Ignatius Donnelly, concerning Darwinism and Christianity, and a photocopy of a portion of Donnelly's diary which mentions Darwin.

Microfilms of manuscript items

The Library has nine sets of microfilms of Darwin materials which are on deposit at various institutions all over the world. These films contain the following: 1) correspondence in possession of Down House, Kent (one reel); 2) correspondence in the Robert Stecher Collection at the Cleveland Medical Library Association (one reel); 3) correspondence in the New York Botanical Garden (one reel); letters to Auguste H. Forel, from originals in the Medicinhistorisches Institut, University of Switzerland, and in University of Basel Library (sixteen frames); 4) letters to Bernhard Studer and to A. von Morlot (seven

items); 5) letters to J. Moulinie, A. Dohrn, Karl Christoph Vogt, Pictet, and de la Rive, from originals in the Bibliotheque Publique et Universitaire de Geneve (25 letters); 6) notebooks written during the voyage of the *Beagle*, from Down House, Kent (eighteen notebooks, one reel); 7) diary and correspondence written during the voyage of the *Beagle*, from Down House, Kent (one reel); and 9) chronology and bibliography of Darwin's life, compiled by Sir Gavin de Beer, containing an incomplete list of all of Darwin's correspondence (two reels).

Photographs and prints

The Library has approximately twelve different photographs and prints of Darwin and of Down House. Some of the best of these are used as illustrations in this calendar.

Books

There are about 150 copies of various editions of Darwin's works in the Library, plus a fair collection of some of the rarer and/or more significant editions of the works of his correspondents, colleagues, and contemporary naturalists and biologists. Space does not permit a full listing of the 150 works by Darwin in the Library, but it is possible to give some indication of the collection by referring to the number assigned to each edition held by the Library in the standard bibliography of Darwin's works (R. B. Freeman, *The Works of Charles Darwin: An Annotated Bibliographical Handlist* [London: Dawsons of Pall Mall, 1965]). The "Freeman numbers" of the Library's holdings are given below, without comment.

1, 2, 3, 4, 5, 7, 8, 10, 16, 83, 84, 85, 86, 87, 88, 89, 90, 91, 95, 99, 103, 105, 106, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 142, 205, 207, 208, 210, 219, 220, 231, 231n, 232, 234, 246, 247, 250, 255, 269, 281, 283, 292, 297, 298, 303, 305, 308, 309, 311, 314, 315, 319, 332, 333, 334, 343, 344, 345, 346, 349, 359, 361, 362, 364, 365, 366, 367, 369, 370, 371, 173, 374, 375, 376, 377, 378, 380, 381, 383, 396, 405, 406, 407, 409, 411, 416, 425, 426, 432, 445, 447, 452, 454, 458, 461, 464, 468, 471, 473, 476, 477, 492, 503, 507, 508, 512, 513, 517, 530, 541.

In addition to these editions, the Library has at least 26 editions of Darwin's works not listed in Freeman.

Subject card catalogs

For a great many years, the Library has maintained subject card catalogs on Darwinism. These catalogs list any published work among the Library's holdings which mentions or discusses Darwin and/or Darwinism. They provide an unparalleled source for study of the influence of Darwin upon society and upon Western thought. There is one card catalog for books, containing approximately 2,800 entries, and another for journal articles, containing approximately 1,000 entries.

An effort has been made to make this appendix as complete as possible, but as the Library is constantly adding to its Darwin holdings, the careful scholar is warned that this compendium will be out of date in a short time.

Other Darwin Letters in the Greater Philadelphia Area

It is expected that this calendar will render unnecessary many visits to Philadelphia by Darwin scholars which would have been mandatory otherwise. While this is a beneficial result of the publication of this book, it is not without its harmful side effects. The worst of these would have been that the many miscellaneous Darwin materials in other institutions in the Philadelphia area might be neglected; this

appendix is designed to prevent this by listing the results of a search by mail for other manuscript Darwin letters in select institutions in the greater Philadelphia area.

To conduct the search, a form letter was sent to the 31 institutions in the area judged by the editor to be the most likely to possess Darwin letters. Thirty institutions replied; they are listed below, and the name of the person responding is given for each institution.

- Academy of Natural Sciences of Philadelphia (Martha T. Pilling, Library Assistant)
- Bryn Mawr College Library (James Tanis, Head Librarian)
- Bucknell University (George M. Jenks, Librarian, Ellen Clarke Bertrand Library)
- College of Physicians of Philadelphia (Ellen G. Gartrell, Assistant Curator, Historical)
- Dickenson College (Danna Spitzform, Assistant to the Curator, Special Collections, Boyd Lee Spahr Library)
- Drexel University (Michael Halperin, Archives and Special Collection)
- Eleutherian Mills Historical Library (Betty-Bright P. Low, Research and Reference Librarian)
- Franklin and Marshall College (Frances L. Hopkins, Reference Librarian, Fackenthal Library)
- The Franklin Institute (Stephanie A. Morris, Associate Archivist)
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The editor is grateful for the cooperation of these institutions and individuals.

Twenty-four letters of Charles Darwin were produced by the search. They are listed below, in chronological order.

- 1 1838 January 23 Sunday, to John Stevens Henslow; Al, S by init.; 4p.; courtesy of the Historical Society of Pennsylvania.
- 2 1843 July 19th, to Ernest Dieffenbach; ALS; 2p.; courtesy of the Historical Society of Pennsylvania.
- 3 1853 Jan. 10th, to Albany Hancock; ALS; 4p.; courtesy of the Historical Society of Pennsylvania.
- 4 ?1854 Nov. 20th, to John Stevens Henslow; ALS; 2p.; courtesy of the Princeton University Library.
- 5 1860 March. 4th, to Joseph Leidy; ALS; 4p.; courtesy of the Academy of Natural Sciences of Philadelphia (see their Collection 1). See calendar entry for this letter (number 202), page 69, above.
- 6 1860 May 8., to the Secretary of the Academy of Natural Sciences of Philadelphia; ALS; 1p.; courtesy of the Academy of Natural Sciences of Philadelphia (see their Collection 330).
- 7 1862 April 25th, to Heinrich Georg Bronn; ALS; 6p.; courtesy of Lehigh University.
- 8 1871 July 1, to?; ALS; 1p.; courtesy of the Historical Society of Pennsylvania.
- 9 1872 Oct. 10th, to Alpheus Hyatt; ALS; 4p.; courtesy of the Princeton University Library (see the Hyatt and Mayer Correspondence).
- 10 1873 Feb 19, to William M. Canby; LS; 3p.; William M. Canby Correspondence, Society of Natural History of Delaware Archives, on deposit at the Historical Society of Delaware.
- 11 1873 May 7, to William M. Canby; LS; 2p.; William M. Canby Correspondence, Society of Natural History of Delaware Archives, on deposit at the Historical Society of Delaware.
- 12 1874 May 11, to Thomas Lauder Brunton; LS; 4p.; courtesy of the Princeton University Library.
- 13 1874 June 30., to?; LS; 2p.; courtesy of the College of Physicians of Philadelphia.
- 14 1875 Oct. 30th, to Messrs. Smith & Elder; ALS; 1p.; courtesy of Lehigh University.
- 15 1876 Aug. 21st, to Messrs. Smith & Elder; ALS; 1p.; courtesy of Lehigh University.
- 16 1876 Nov. 20th, to?; LS; 2p.; original in private possession of Dr. Seymour Adelman, c/o James Tanis, Head Librarian, Bryn Mawr College Library.
- 17 1877 March 7., to Messrs. Smith & Elder; LS; 4p.; courtesy of Lehigh University.
- 18 1877 June 6th, to?; ALS; 1p.; courtesy of Haverford College Library (Charles Roberts Autograph Letters Collection).
- 19 1880 Nov. 5, to?; ALS; 1p.; courtesy of the Historical Society of Pennsylvania.
- 20 1882 Feb 22, to?; LS; 4p.; courtesy of Princeton University Library (privately owned; from the private library of William H. Scheide, Princeton, New Jersey; no connection with Princeton University Library).
- 21 n.y. April 6th., to?; ALS; 3p.; courtesy of Lehigh University.
- 22 n.y. May 7, to?; ALS; 1p.; courtesy of Philip Schwartz, M.D., Medical Research Director, Warren State Hospital, Warren, Pennsylvania (privately owned by Dr. Schwartz).
- 23 n.y. Oct 2d., to?; ALS; 1p.; courtesy of Lehigh University.
- 24 n.y. Oct 14th, to "Madam"; ALS; 2p.; courtesy of Lehigh University.

All letters are listed with the permission of their owners, for which permission the editor is grateful.

Indexing Terms

Personal Name(s)

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- Buckland, William, 1784-1856
- Busk, George, 1807-1886
- Eyton, Thomas Campbell, 1809-1880
- Flower , William Henry, 1831-1899
- Forbes, David, 1828-1876
- Foster, M., Sir, (Michael), 1836-1907
- Gray, Asa, 1810-1888
- Gray, John Edward, 1800-1875
- Gulick, John Thomas, 1832-1923
- Gu#nther, Albert C. L. G. , (Albert Carl Ludwig Gotthilf), 1830-1914
- Hancock, Albany, 1806-1873
- Henslow, J. S. (John Stevens), 1796-1861
- Herbert, John Maurice, 1808-1882
- Hooker, Joseph Dalton, Sir, 1817-1911
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- Lankester, E. Ray, Sir, (Edwin Ray), 1847-1929
- Leidy, Joseph, 1823-1891
- Lubbock, J. W., (John William), 1803-1865
- Lyell, Charles, Sir, 1797-1875
- Milne-Edwards, H., (Henri), 1800-1885
- Murchison, Roderick Impey, Sir, 1792-1871
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- Owen, Richard, 1804-1892
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- Romanes, George John, 1848-1894
- Sclater, Philip Lutley, 1829-1913
- Thwaites, George Henry Kendrick, 1811-1882
- Wallace, Alfred Russel, 1823-1913
- Walsh, Benjamin Dann, 1808-1869
- Wyman, Jeffries, 1864-

Subject(s)

- Adaptation (Biology)
- Beyond Early America
- Biology, genetics, eugenics
- Coral reefs and islands

- Evolution (Biology)
- Evolution--Religious aspects
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- Geology--Great Britain--19th century
- Heredity
- Natural history--Great Britain--19th century
- Natural selection
- Naturalists--England
- Race, race relations, racism
- Religion and science--1860-1899
- Transmutation of animals
- Variation (Biology)

Other Finding Aids

Many of these letters are described briefly in P. Thomas Carroll, *An Annotated Calendar of the Letters of Charles Darwin in the Library of the American Philosophical Society* (Wilmington, Del.: Scholarly Resources, 1976). **Call no.:** 012 D25c.

A comprehensive calendar of Darwin manuscripts is provided in Frederick Burkhardt and Sydney Smith, *A Calendar of the Correspondence of Charles Darwin, 1821-1882* (N.Y.: Garland, 1985). **Call no.:** 016.091 D25b

Other Descriptive Information

Descriptive abbreviations always indicate three things: the type of document being calendared; whether or not the document is in the hand of the author of the document; and the presence or absence of the author's signature. Sometimes they also give additional information, such as indication that the signature is in the form of initials only. These abbreviations are more-or-less standardized among archivists, and they are discussed elsewhere in considerable detail, so only a brief explanation of them is provided below. Those unfamiliar with such abbreviations may consult the more extended discussion published elsewhere for details.

As used in this calendar, descriptive abbreviations consist of a combination of one or more *basic abbreviations* (usually each basic abbreviation is a single letter) into a *composite abbreviation* which fully describes the document being calendared. The basic abbreviations used are the following:

A

Autograph; the document is written in the hand of the author.

add.

Address; the address of the recipient has been provided.

by init.

By initials; the signature consists only of the author's initials.

D

Document; the defitem is a writing of some sort, but is not a letter or a note, and it is in reasonably final form.

end.

Endorsement; a brief note written on the defitem by the recipient.

L

Letter; the defitem is a written communication of some length.

N

Note; the defitem is a very short written communication.

p.c.

Postal card; the defitem has been written upon a standard postal card.

S

Signed; the defitem has been signed by its author.

sketch

Sketch; part of the defitem is a drawing in the hand of the author.

T

Typed; the defitem has been typed rather than written.

These basic forms can be combined to form composite abbreviations which describe the item being calendared. It would be foolish to list all the possible permutations of the basic forms here, especially since the many possible composite abbreviations can be suggested well by a few examples, such as the following: "ALS" indicates a holograph letter signed by the author; "LS" indicates a letter signed by the author but written in the hand of an amanuensis; "AN on p.c., S by init." indicates a holograph note written on a postal card and initialed, but not signed in full, by the author. The other possible combinations should follow logically from these examples, especially if readers keep in mind the following rule of thumb: assume that the author or composer of the item had nothing to do with the actual writing of the item unless indicated otherwise.

Other Descriptive Information

Abbreviations of periodical titles not listed below may be found in the *World List of Scientific Periodicals*, 1900-1960, fourth edition. Abbreviations of titles not found in the *World List* were derived by the editor by using the system of abbreviation described in the *World List*; the resultant abbreviated titles are listed below. This rather unorthodox approach to abbreviating periodicals in an American publication (i.e. using an English source for abbreviations rather than, say, the *Union List of Serials*) was employed because the *World List*, unlike other sources, includes many of the more obscure titles cited by Darwin, and also because the *World List* abbreviations seem to the author to be the most systematic, consistent, and understandable of any yet devised.

With exceptions noted below, Darwin titles are shortened to the forms used as headings in Part 2 of R.B. Freeman, *The Works of Charles Darwin: An Annotated Bibliographical Handlist*, [first edition] (London: Dawsons of Pall Mall, 1965). For each Darwin work cited, the short title and the year of publication only are given, except in cases in which more than one issue of that title appear in the given year; in such cases, the number of the issue used, as found in the Freeman *Handlist*, is also provided. In places

where only the short title and the year appear, and Freeman indicates that more than one issue of that title appeared in that year, the reader may assume that what is said applies to all of these issues or variants.

Common abbreviations, such as "univ." for "university", are omitted, of course.

AAAS

American Association for the Advancement of Science.

Abstr. Pap. Communicated R. Soc. Lond.

Abstracts of Papers Communicated to the Royal Society of London (usually considered to be volumes five and six of the Proceedings, 1843 to 1854).

APS

American Philosophical Society, Held at Philadelphia, for Promoting Useful Knowledge.

B.A.A.S.

British Association for the Advancement of Science.

Barlow, ed., Autobiography

Charles Darwin, The Autobiography of Charles Darwin, 1809-1882, with Original Omissions Restored, edited with appendix and notes by... Nora Barlow [Freeman 371] (London: Collins, 1958).

Brit. for. med.-chir. Rev.

British and Foreign Medico-Chirurgical Review.

CD

Charles Robert Darwin, 1809-1882.

Can. Naturalist

Canadian Naturalist and Quarterly Journal of Science, with Proceedings of the Natural History Society of Montreal.

corr.

correspondent.

DAB

Dictionary of American Biography.

Darwin, Coral Reefs

The Structure and Distribution of Coral Reefs, Being the First Part of the Geology of the Voyage of the Beagle... (London: Smith, Elder and Co., 1842).

Darwin, Fossil Balanidae

Charles Darwin, A Monograph on the Fossil Balanidae and Verrucidae of Great Britain [Freeman 105, v. 2] (London: Palaeontographical Society, 1854).

Darwin, Fossil Lepadidae

Charles Darwin, A Monograph on the Fossil Lepadidae, or, Pedunculated Cirripedes of Great Britain [Freeman 105, v. 1] (London: Palaeontographical Society, 1851).

Darwin, Origin (year)

Charles Darwin, On the Origin of Species by Means of Natural Selection, or the Preservation of Favoured Races in the Struggle for Life, edition and issue determined by year of publication and, if necessary, by Freeman number.

Darwin, Recent Balanidae

Charles Darwin, A Monograph on the Sub-class Cirripedia, with Figures of All the Species: The Balanidae, (or Sessile Cirripedes); The Verrucidae, etc., etc., etc. [Freeman 103, v. 2] (London: The Ray Society, 1854).

Darwin, Recent Lepadidae

Charles Darwin, *A Monograph on the Sub-class Cirripedia, with Figures of All the Species: The Lepadidae; or, Pedunculated Cirripedes* [Freeman 103, v. 1] (London: The Ray Society, 1851).

Darwin, South America

Charles Darwin, *Geological Observations on South America, Being the Third Part of the Geology of the Voyage of the Beagle...* (London: Smith, Elder and Co., 1846).

Darwin, Volcanic Islands

Charles Darwin, *Geological Observations on the Volcanic Islands, Visited during the Voyage of H.M.S. Beagle, Together with Some Brief Notices on the Geology of Australia and the Cape of Good Hope, Being the Second Part of the Geology of the Voyage of the Beagle...* (London: Smith, Elder and Co., 1844).

Darwin and Henslow

Nora Barlow, ed., *Darwin and Henslow: The Growth of an Idea. Letters, 1831-1860* (London: Bentham-Moxon Trust, John Murray, 1967).

DNB

Dictionary of National Biography.

DSB

Dictionary of Scientific Biography.

Edinb. J. nat. geogr Sci.

Edinburgh Journal of Natural and Geographical Science.

Edinb. new phil. J.

Edinburgh New Philosophical Journal.

Edinb. Rev.

Edinburgh Review.

Emma Darwin

H. E. Litchfield, ed., *Emma Darwin, Wife of Charles Darwin: A Century of Family Letters, 2v.*, privately printed [Freeman 359] (Cambridge: Cambridge University Press, 1904).

FGS

Fellow of the Geological Society of London.

FLS

Fellow of the Linnean Society, London.

Fortn. Rev.

Fortnightly Review.

FRCP

Fellow of the Royal College of Physicians, London.

Freeman

R. B. Freeman, *The Works of Charles Darwin: An Annotated Bibliographical Handlist* (London: Dawsons of Pall Mall, 1965).

FRS

Fellow of the Royal Society of London.

FRSE

Fellow of the Royal Society of Edinburgh.

FZS

Fellow of the Zoological Society of London.

Handlist of Darwin Papers

Handlist of Darwin Papers at the University Library Cambridge (Cambridge: Cambridge University Press, 1960).

iss.

issue.

J. R. geogr Soc. Lond.

Journal of the Royal Geographical Society, London.

Larousse

Pierre Larousse, Grand Dictionnaire Universel du XIXe SiC(cle....

Life and Letters

Francis Darwin, ed., The Life and Letters of Charles Darwin, Including an Autobiographical Chapter, 3v. [Either Freeman 346 (first edition, 1887) or Freeman 349 (seventh thousand revised, 1888)] (London: John Murray, 1887 or 1888). A simple Life and Letters citation, therefore, indicates that the citation is correct for either of the two editions listed above; compare this with the next entry below.

Life and Letters (seventh thousand revised, 1888)

Francis Darwin, ed., The Life and Letters of Charles Darwin, Including an Autobiographical Chapter, seventh thousand revised, 3v. [Freeman 349] (London: John Murray, 1888). A short-title citation of this type indicates a discrepancy in the pagination for the cited material between the first and the revised editions of the Life and Letters; the pages cited apply to the revised edition, while the same material can usually be found in the first edition a few pages later.

Life of Lyell

[K. M. H.] Lyell, ed., Life, Letters, and Journals of Sir Charles Lyell, Bart., 2v. (London: John Murray, 1881).

Life of Romanes

[Ethel Duncan] Romanes, ed., The Life and Letters of George John Romanes (London, New York, and Bombay: Longmans, Green, and Co., 1896).

Lyell: The Years to 1841

Leonard G. Wilson, Charles Lyell, The Years to 1841: The Revolution in Geology (New Haven and London: Yale University Press, 1972).

Mag. nat. Hist.

Magazine of Natural History (ultimately merged with Annals of Natural History to become Annals and Magazine of Natural History).

MEB

Frederic Boase, Modern English Biography.

More Letters

Francis Darwin, and A. C. Seward, eds., More Letters of Charles Darwin: A Record of His Work in a Series of Hitherto Unpublished Letters, 2v. [Freeman 359] (London: John Murray, 1903).

MRCS

Member of the Royal College of Surgeons of England.

Nat. Hist. Rev.

Natural History Review: A Quarterly Journal of Biological Science.

N. Br. Rev.

North British Review.

Peckham, Variorum Origin

Morse Peckham, ed., *The Origin of Species by Charles Darwin: A Variorum Text* (Philadelphia: University of Pennsylvania Press, 1959).

pmk.

postmark.

Poggendorff

J. C. Poggendorff, ed., *Biographisch -- Literarisches Handwörterbuch zur Geschichte der Exakten Wissenschaften*.

Proc. geol. Soc. Lond.

Proceedings of the Geological Society of London (preceded the Quarterly Journal).

Proc. nat. Hist. Soc. Dubl.

Proceedings of the Natural History Society of Dublin.

PTC

Material added by the compiler, P. Thomas Carroll.

Q. Rev.

Quarterly Review.

Sat. Rev.

Saturday Review of Politics, Literature, Science and Art.

Silliman's J.

American Journal of Science (known popularly as Silliman's Journal of Science).

Stauffer, ed., CD's Nat. Selection

Robert C. Stauffer, ed., *Charles Darwin's Natural Selection, Being the Second Part of His Big Species Book Written from 1856 to 1858* (Cambridge: Cambridge Univ. Press, 1975).

Trans. geol. Soc. Lond.

Transactions of the Geological Society of London.

Vorzimmer, Reprint Catalogue

Peter J. Vorzimmer, comp., *A Catalogue of the Darwin Reprint Collection at the Botany School Library, Cambridge* (Cambridge: unpublished mimeograph, 1963).

wmk.

watermark.

Other Descriptive Information

Footnotes

¹ This is no place for a systematic review of the literature, but here are some examples: on the origins of Darwin's ideas, see recent articles by Barbara G. Beddall, Sandra Herbert, and Joel S. Schwartz in the *Journal of the History of Biology*, and Camille Limoges, *La sélection naturelle: C tude sur la première constitution d'un concept (1837-1859)* (Paris: Presses Universitaires de France, 1970); on Darwin's method, see Michael T. Ghiselin, *The Triumph of the Darwinian Method* (Berkeley: Univ. of California Press, 1969), and Stephen Jay Gould, "Darwin's `Big Book'," *Science, N.Y.*, 188 (1975): 824-26; on the dissemination and early reception of Darwin's ideas, see Thomas F. Glick, ed., *The Comparative Reception of Darwinism* (Austin, Texas: Univ. of Texas Press, 1974), and David L. Hull, *Darwin and His Critics: The Reception of Darwin's Theory of Evolution by the Scientific Community* (Cambridge, Mass.: Harvard Univ. Press, 1973); on the ultimate acceptance of Darwinism, see William

B. Provine, *The Origins of Theoretical Population Genetics* (Chicago: Univ. of Chicago Press, 1971); on the enlightenment of modern scientists, besides the numerous examples in population genetics, see Paul Ekman, ed., *Darwin and Facial Expression: A Century of Research in Review* (New York: Academic Press, 1973).

² Some recent published transcriptions of Darwin's manuscripts include, in chronological order of publication: Barlow, ed., *Autobiography; Darwin and Henslow*; Howard E. Gruber, *Darwin on Man: A Psychological Study of Scientific Creativity, Together with Darwin's Early and Unpublished Notebooks*, transcribed and annotated by Paul H. Barrett (New York: E. P. Dutton & Co., Inc., 1974); and Stauffer, ed., *CD's Nat. Selection*. This list is hardly exhaustive. See note 16 for recent printings of Darwin's letters.

³ Thomas Jefferson to Robert Walsh, April 5, 1823, as quoted in *The Papers of Thomas Jefferson*, ed. Julian P. Boyd, *et. al.* (Princeton, N.J.: Princeton Univ. Press, 1950-), I, xi.

⁴ Nora Barlow, ed., *Autobiography*.

⁵ Darwin to Lyell, Sept. 12, [1860], APS; see below, p. 85. (This and other examples of Darwin's letters used in the introduction are selected from *unpublished* portions of letters now in the American Philosophical Society; they illustrate the wealth of material edited out of previously published versions of Darwin's letters.) The passage on Ammonites which is being corrected is in Darwin, *Origin* (1859 or 1860), 321-22; according to Peckham, *Variorum Origin*, 531-32, lines 78-83, Darwin never brought his published claim regarding Ammonites into agreement with the admissions made to Lyell in this letter.

⁶ For example, in a letter to Lyell dated November 18, 1849, and printed in *More Letters*, II, 130-31, letter 486, Darwin wrote that "without most distinct evidence I will never admit that a *dike* joins on rectangularly to a stream of lava." Sixteen days later, in a letter dated December 4, he retreated somewhat from this position: "I remember in my last letter talking very big about dikes never being connected directly (i.e. rectangularly) with lava-streams; but it is clear that such occur frequently at the Sandwich Is[lan]ds without any cones." Although he continues by claiming that the situation at the Sandwich Islands [i.e. Hawaii] is "a rare exceptional case", Darwin clearly is amending his earlier claim. The December 4 letter has not been published before. See below, pp. 32-34.

⁷ Darwin to Lyell, December 4, [1860], APS, see below, pp. 89-90.

⁸ Just after the *Origin* was published, during the period when reviews of the book began to appear, Darwin told Asa Gray, "I have made up my mind to be well abused; but I think it of importance that my notions sh[oul]d be read by intelligent men, accustomed to scientific argument though *not* naturalists. It may seem absurd, but I think such men will drag after them those naturalists, who have too firmly fixed in their heads that a species is an entity." (Darwin to Asa Gray, December 21, [1859], Gray Herbarium, Harvard University; printed in *Life and Letters* II, 244-45; text above from manuscript letter.) In this passage, Darwin implied that his evolutionary "notions" were revolutionary in nature, at least among naturalists, and that he expected his supporters to come from *outside* the community of naturalists. How important a role he foresaw for these supporters is revealed four months later in his remark to Lyell that "the non-comittal [*sic*] men do not always most help a science." (Darwin to Lyell, April 27/28, [1860],

APS, see below, p. 76.) Darwin reiterates this view and identifies some of his supporters in May when he writes to Lyell: "I can very plainly see, as I lately told [Joseph Dalton] Hooker, that my Book would have been & [would] be a mere flash in the pan, were it not for you, Hooker & a few others." (Darwin to Lyell, May 18, [1860], APS, see below, p. 78.) A month later-ironically on the eve of the historic Oxford meeting of the B.A.A.S. at which the *Origin* was debated so hotly-Darwin despaired of the rapid conversion of naturalists through the intercession of supporters, arguing instead that "time alone will bring naturalists round, when they find that they can explain many facts on such views as mine, & cannot on view of creation." (Darwin to Lyell, [June] 25, [1860], APS, see below, p. 82.) It is almost as if Darwin's practice of population thinking, so well-used on plant and animal species, was being applied to scientific communities; social historians and sociologists of science may find this of some interest, as might some philosophers of science. The foregoing is not meant, of course, to delineate the recent historiography of the social side of Darwin studies; for a stimulating marxist treatment of some aspects of this, see Robert Young, "The Historiographic and Ideological Contexts of the Nineteenth-Century Debate on Man's Place in Nature," in MikulC[scaron] Teich and Robert Young, eds., *Changing Perspectives in the History of Science: Essays in Honour of Joseph Needham* (London: Heinemann, 1973), 344-438, esp. 361-88.

⁹ In a confidence to Lyell in 1860, Darwin revealed his views on the role of priority in science, exposing in the process why he apparently never felt completely comfortable publishing simultaneously with Alfred Russel Wallace in 1858. Regarding a reference to Darwin by Asa Gray in one of the later's works, Darwin wrote: "he put my name before [that of Edward] Forbes on Glacial distribution: & I told him in answer that I had written out the notion 3 or 4 years before Forbes, but that I had no sort of claim to notice on this head, as he published first, & that in the *Origin* I shd. of course take no notice of this." (Darwin to Lyell, [February] 12, [1860], APS, see below, p. 71.) This gives some indication of Darwin's scrupulous professional ethics. On cirripedes, Darwin's expectations regarding the support he would receive for his radical discoveries were far more limited than were his expectations for his work on the origin of species. When Albany Hancock informed Darwin that he believed in Darwin's discovery of complemental males, Darwin replied that he had "greatly feared tha no one would believe in them; and now I know that [Richard] Owen, [James Dwight] Dana, and yourself are believers, I am most heartily content." (Darwin to Hancock, January 10, [1853], as printed in John Hancock, [ed.], "Letters from C. Darwin, Esq., to A. Hancock, Esq.," *Nat. Hist. Trans. Northumb.*, 8, pt. 2 [1886]: 250-78, at 269; original at Historical Society of Pennsylvania, Philadelphia.)

¹⁰ Darwin to Lyell, August 9, [1838], APS, see below, p. 4. Although Darwin probably was not anticipating it here, FitzRoy committed suicide in 1865.

¹¹ Darwin to Lyell, July 30, [1860], APS, see below, p. 83.)

¹² In 1860, for example, he wrote Lyell: "I have nothing to say, as I have seen no one (except indeed [Joseph Dalton] Hooker for an hour or two at Kew) for an age." (Darwin to Lyell, July 30, [1860], APS, see below, p. 83.) This letter implies that the content of Darwin's meetings with colleagues forms much of the meat of his letters. Still, Darwin exaggerates in his claim that, when he has seen no one, he has nothing to say.

¹³ For example, we can tell from the letters that Darwin met Lyell in London on February 6, 1845. (Darwin to Lyell, Saturday, [February 8, 1845], APS, see below, pp. 16-17.) Unfortunately, this type of

information is sometimes incorrect, either because Darwin would announce a date for a trip to London and then be too ill to travel on the appointed day, which occurred regularly, or because Darwin got his dates mixed up, which occurred very occasionally.

¹⁴ On his daughter's illness, see letters to Lyell during summer of 1860 (Darwin to Lyell, May 18, [1860], *et seq.*, APS; see below, p. 78 ff). See especially: Darwin to Lyell, July 30, [1860], APS, see below, p. 83; and *ibid.*, August 11, [1860], APS, see below, pp. 83-84. The first chapter of Darwin's book on insectivorous plants begins: "During the summer of 1860, I was surprised by finding how large a number of insects were caught by the leaves of the common sun-dew (*Drosera rotundifolia*) on a heath in Sussex. I had heard that insects were thus caught, but knew nothing further on the subject." (Darwin, *Insectivorous Plants* [1875], 1.)

¹⁵ On the addition to Down House, see: Darwin to [William] Marshall, September 19, 1876, APS, see below, p. 173, *ibid.*, September 29, [1876], APS, see below, pp. 173-74; and *ibid.*, November 22, [1876], APS, see below, p. 174. On the purchase of an enema, see Darwin to?, November 8, [1871-1875], APS, see below, p. 149.

¹⁶ A great many Darwin letters appear in the three volumes of *Life and Letters* the two volumes of *More Letters*, and the two volumes of *Emma Darwin*. A few of the many locations in which Darwin correspondence has appeared recently are, in chronological order: Gavin de Beer, "Further Unpublished Letters of Charles Darwin," *Ann. Sci.*, 14 (1958): 83-115; *idem*, ed., "Some Unpublished Letters of Charles Darwin," *Notes Rec. R. Soc. Lond.*, 14 (1959): 12-66; Robert M. Stecher, "The Darwin-Innes Letters: The Correspondence of an Evolutionist with His Vicar, 1848-1884," *Ann. Sci.*, 17 (1961): 201-58; *Darwin and Henslow*; Gavin de Beer, ed., "The Darwin Letters at Shrewsbury School," *Notes Rec. R. Soc. Lond.*, 23 (1968): 68-85; Robert M. Stecher, "The Darwin-Bates Letters: Correspondence between Two Nineteenth-Century Travellers and Naturalists," *Ann. Sci.*, 25 (1969): 1-47, 95-125; Paul H. Barrett and Alain F. Corcos, "A Letter from Alexander Humboldt to Charles Darwin," *J. Hist. Med.*, 27 (1972): 159-72; Barbara G. Beddall, "Notes for Mr. Darwin: Letters to Charles Darwin from Edward Blyth at Calcutta: A Study in the Process of Discovery," *Journal of the History of Biology*, 6 (1973): 69-95; Thaddeus J. Trenn, "Charles Darwin, Fossil Cirripedes, and Robert Fitch: Presenting Sixteen Hitherto Unpublished Darwin Letters of 1849 to 1851," *Proc. Am. phil. Soc.*, 118 (1974): 471-91; and Lewis S. Feuer, "Is the 'Darwin-Marx Correspondence' Authentic?" *Ann. Sci.*, 32 (1975): 1-12. For a reasonably complete, but by no means exhaustive, bibliography of Darwin letters published somewhat earlier, see Gavin de Beer, ed., "Some Unpublished Letters of Charles Darwin," *op. cit.*, this note, 60-62 and 66.

¹⁷ *Life and Letters* I, iii.

¹⁸ *More Letters*, I, viii.

¹⁹ *Emma Darwin*, I, vii. The count of 66 letters is from the privately printed edition, published in 1904; other editions are probably slightly different.

²⁰ *Life and Letters* I, iv.

²¹ *More Letters*, I, ix.

²² *Emma Darwin*, I, ix. Italics added.

²³ See, for example, the statement of the method of dating used by Francis Darwin and Seward (*More Letters*, I, x). For an example of an improperly dated letter, see Darwin to Asa Gray, April 4, [1858]; this letter is dated "1859" in the first edition of *Life and Letters* ([1887], II, 154-55), but it is deleted from later editions, probably because Francis Darwin realized that it was improperly dated.

²⁴ See note 16, above.

²⁵ The usual reason for a poor transcription is the inability of the transcriber to read Darwin's handwriting, but still another reason is that thorough editorial standards are usually not employed for the transcription of the small number of letters usually included in these articles. A simple but important example is the use of parentheses instead of brackets around the editorially-added word "*Cryptophialus*" in the printed text of a letter to Albany Hancock, December 25, [1849], as printed in John Hancock, [ed.], "Letters from C. Darwin, Esq., to A. Hancock, Esq.," *Nat. Hist. Trans. Northumb.*, 8 (1886): 250-78, at p. 258; original at APS, see below, p. 34. The unsuspecting scholar without access to the original letter might conclude from the printed text that by 1849 Darwin had identified his *Arthrobalanus* specimen as a *Cryptophialus*; this Darwin had not done-and in fact probably did not do until 1853-and realization of this is central to an understanding of Darwin's cirripede work (Thaddeus J. Trenn, "Charles Darwin, Fossil Cirripedes, and Robert Fitch: Presenting Sixteen Hitherto Unpublished Darwin Letters of 1849 to 1851," *op. cit.*, note 16, *passim*, esp. 472-73 and 472n.

²⁶ In some cases, a trip to Philadelphia might be avoided entirely by the acquisition of photocopies of letters of interest by mail-a practice which the Society wishes to encourage.

²⁷ This unfortunate circumstance results from Darwin's habit of destroying letters received; this practice was not discontinued until 1862, and even after that date Darwin did not save all of his letters. Apparently he did not think of letters in the way Jefferson did when he wrote the passage quoted earlier. (*Life and Letters* I, v.)

²⁸ Darwin meant that he respected Lyell's scientific and professional judgment above that of all others. See *Life and Letters* II, 119.

²⁹ See particularly Darwin to Herbert, June 2, 1833, APS, see below, p. 2. The passage in this letter which discusses carnations and peaches shows Darwin's exposure to such subjects at an early age, and indicates that Darwin probably also discussed such topics while at Cambridge.

³⁰ "A Guide to Practical Calendaring," *American Archivist*, 11 (1948): 123-40, at 127.

³¹ Frank Freidel, ed., *Harvard Guide to American History*, rev. ed., 2v. (Cambridge, Mass.: Belknap Press of Harvard Univ. Press, 1974), I, 23.

³² *More Letters*, I, x.

³³ To the best of the editor's knowledge, this regularity in the Darwin addresses was first discussed and employed for dating purposes by Gavin de Beer; see de Beer, "Some Unpublished Letters of Charles Darwin," *op. cit.*, note 16, 13-14. As de Beer points out, many of the printed versions of the letters give the simple address of "Down", thereby obscuring the variant headings.

³⁴ The editors state this explicitly in *More Letters*, I, x.

³⁵ The For the sake of argument, traditional forms are enumerated in: Morris L. Radoff, "A Guide to Practical Calendaring," *op. cit.*, note 30; and *idem*, "A Practical Guide to Calendaring," *American Archivist*, 11 (1948): 203-22.

Some might also object to the method of production (i.e. photo offset of a carefully-proofed typescript, rather than typeset), but this was necessary to keep the cost per copy down to a level reasonable enough so that scholars could afford personal copies of the calendar.

³⁶ Although it is somewhat out of fashion to give the dimensions -- the argument against inclusion being that, given the disparities of different types of handwriting, size is a poor indicator of length of text -- measurements are given in this calendar because of two special factors: 1) most of the letters in the calendar are in Darwin's hand, so there is an uncommonly good relationship between dimensions and length of text; and 2) the dimensions of Darwin's stationery in some cases can be used to corroborate a determination of a date for an undated letter. For example, a claim that an undated letter on stationery measuring eight by five inches was written in, say, 1860, will be corroborated if other Darwin letters known to have been written around this same date also are written on stationery of the same size. This is by no means a hard and fast rule, however; Darwin apparently reverted to leftover scraps and remainders of old stationery on occasion.

³⁷ Radoff, "A Guide to Practical Calendaring," *op. cit.*, note 30, 134.

³⁸ An example of an *editorial addition* is the "(forwarded to)" in the address for Herbert in Darwin to Herbert, June, 1832, pp. 1-2 below. An example of a *dubious reading* is the "(S?)" in the address for Herbert in Darwin to Herbert, [September 13, 1828], p. 1 below. An example of *material appearing in parentheses in the original* is Lyell's "(105)" in his endorsement of Darwin to Lyell, [December (?19), 1837], p. 4 below.

³⁹ Such marks by Francis Darwin are usually readily distinguishable because they often are written in a distinctive purple ink. Francis Darwin refers to these marks himself in a letter to Léo Abram Errera when he says: "Please excuse the numbers of reference with which I have marked the letters [from Charles Darwin to Errera, which Errera lent to Francis for use in the *Life and Letters*]." (F. Darwin to Errera, [October 25, 1882]. APS; see appendix below.)

⁴⁰ In addition, despite the many errors and other indications of hurriedness in Darwin's letters, the many corrections in the letters indicate that the meticulous Darwin paid reasonably close attention to details of spelling, grammar, punctuation, and the like. A good illustration of this trait appears in a letter to Lyell in which Darwin tells the geologist that he had misspelled "Van Diemen's Land [i.e. Tasmania]" in a

manuscript (Darwin to Lyell, [August 2, 1845], APS, calendar listing below, pp. 17-18; this part of the letter is not brought out in the calendar entry.)

Other Descriptive Information

Despite indications to the contrary on the title page, this calendar was by no means the work of one or even two persons; a great many acknowledgements -- too many, in fact, for all of them to be explicit here, and too deeply felt by the editor for adequate expression in words -- are in order.

Above all else, of course, this calendar would not have been possible had it not been for the prodigious efforts of Charles Darwin himself, and so this book is his. By poring over his letters, I believe, I have come to know him fairly intimately, and I can assure my readers that, in this case at least, the old adage about familiarity breeding contempt is inapplicable. I know that this admission bodes ill for my retention of a critical historical perspective, but it would be a worse sin for me to feign objectivity. Besides, if my readers study these letters as I have, I think they will agree in all fairness that we should all be grateful that such a wonderful man as Darwin was once among us, however briefly and reclusively.

I am equally grateful to Darwin's great-grandson, Mr. George P. Darwin, for permission to produce this calendar and to quote extensively from the letters, regardless of the intimacy of their contents; this graciousness demonstrates that devotion to rigorous scholarship is as much the Darwin hallmark today as it was a century ago.

Financial support for the preparation of this calendar was provided by a generous gift to the American Philosophical Society by the Andrew W. Mellon Foundation.

The commodious facilities of the Library of the American Philosophical Society are a scholar's delight; I am grateful to the Society for the privilege of using them. Each of my colleagues on the Library staff has given generously of his or her time and expertise to the production of this work. Those who have contributed directly to the final manuscript were Helen Black, who conscientiously typed both my handwritten transcriptions of the letters and the manuscript of the front matter, and B. Dodelin, who prepared the photographic prints for the illustrations. Everyone else, each in his or her own way, not only added to this work but also made my stay at the Library pleasurable. I regret that there is not enough space to name them individually.

Many other individuals aided this project. I am grateful to Dr. Frederick Burkhardt, President Emeritus of the American Council of Learned Societies, for writing the foreword. Special thanks go to Dr. Sydney Smith, Lecturer in Zoology, St. Catharine's College, Cambridge University, and to Mr. Peter Gautrey, Cambridge University Library; with astonishing skill and resourcefulness they helped to date and otherwise identify the most intransigent letters in the collection. Similarly, Dr. Thaddeus J. Trenn, Department of the History of Science, University of Regensburg, helped considerably in the identification of letters from Darwin's cirripede period; in addition, as I discuss in the Introduction, Dr. Trenn has been my collaborator in the attempt to make sense of the many variant Down House addresses in the headings of Darwin's letters. Frederick Burkhardt has helped with the identification and arrangement of some of the letters. Professor Malcolm J. Kottler, Department of Ecology and Behavioral Biology, University of Minnesota, shared with me all of his determinations of the dates and the instances of publication of the Darwin-Romanes letters. Dr. Whitfield J. Bell, Jr., Librarian of the American Philosophical Society,

not only supervised the project but also arranged for the publication of the work. In addition to the aid provided to me as part of their regular duties, Mr. Carl F. Miller, Assistant Manuscripts Librarian, and Mr. Murphy D. Smith, Associate Librarian, American Philosophical Society Library, were especially helpful in deciphering the more exotic examples of Darwin's difficult handwriting. The latter also offered many useful suggestions concerning format of entries. Whitfield J. Bell, Jr., Jeffrey L. Sturchio, and Frederick Burkhardt provided criticisms of early drafts of the front matter; Frederick Burkhardt also helped to proofread the calendar entries. Mr. Michael Glazier, President of Scholarly Resources, Inc., has been a generous and patient publisher. Robert F. Bud, Department of the History and Sociology of Science, University of Pennsylvania, helped to investigate British copyrights of the illustrations. Professor Leonard G. Wilson, Department of the History of Medicine, University of Minnesota, helped to publicize the calendar among Darwin scholars.

The following individuals aided in transcribing, dating, locating, and/or annotating one or more letters: Marianne Abel, Academy of Natural Sciences of Philadelphia; John Angell, Free Library of Philadelphia; Sir Hedley Atkins, M.D., Down House; Suzanne W. Brown, Chicago Academy of Sciences; Colin Burton, Baird & Tatlock (London) Ltd.; Dr. Ralph Colp, Jr.; Professor Joseph Ewan, Department of Biology, Tulane University; Ellen G. Gartrell, Assistant Curator, Historical Collections, College of Physicians of Philadelphia; Sheila K. Hart, Harvard College Library; F. A. Milligan, Hereford and Worcester County [England] Libraries; Professor James A. Rogers, Department of History, Claremont Men's College; Jeffrey L. Sturchio, Department of the History and Sociology of Science, University of Pennsylvania; Margaret Teransky, Free Library of Philadelphia; Philip Titheradge, Down House; and Professor David B. Wilson, Department of History, University of Oklahoma. My colleague and friend Roy Goodman here in the Library is unparalleled as a reference librarian.

In the course of my research, I have enjoyed the facilities of and/or received the competent assistance of the staffs of the Academy of Natural Sciences of Philadelphia, the Burndy Library, the Chicago Academy of Sciences, the Harvey S. Firestone Library of Princeton University, the Free Library of Philadelphia, the Harvard College Library, the Hereford and Worcester County [England] Libraries, the Historical Society of Pennsylvania, and the Charles Patterson Van Pelt Library of the University of Pennsylvania. I am also grateful to all those persons and institutions mentioned in the second appendix for making its compilation possible. A copy of the Darwin letter to Gray which I quote in the introduction was provided by the Gray Herbarium, Harvard University, which has the original. Those who have graciously given permission for reproduction of one or another of the illustrations are acknowledged where the figures appear.

Preparation of this calendar has consumed much of my time and attention over the last two years. Accordingly, I should like to thank the faculty, the staff, and my fellow graduate students in the Department of the History and Sociology of Science at the University of Pennsylvania for tolerating my reduced visibility around the Department. Similarly, my wife Nan, my late father, and my mother have suffered me cheerfully whenever the excesses of my enthusiasm for Darwin and the history of science have overflowed into my family life.

Many others, too numerous to mention, have aided the compilation of this volume in some way. Despite all this help, endless factual and interpretive errors, of which I am painfully aware and for which I am solely responsible, undoubtedly remain. I hope that scholars will both forgive me for these and report them to the Library for the benefit of future students of Darwin.

P. T. C.

Other Descriptive Information

The Darwin Papers contain at least one item which may be of interest to naval historians:

Darwin, Charles. Letter to Lieutenant Charles Wilkes. 1836 October - 1836 November. Wishes to converse concerning Wilkes' "long...voyage." 1 page. (B D25.192).

Other Descriptive Information

One of the most important natural historians in nineteenth-century Britain, Charles Darwin provided the first compelling mechanism to account for organismal evolutionary change. In at least two letters in the Darwin collection, the naturalist reflects upon the nature of race. In a letter dated 8 October [1845], Darwin questions whether there is a connection between race and susceptibility to different types of lice. In a letter dated 25 October [1859], Darwin dispels other scientists' claims that there are several species of man.

Other Descriptive Information

This manuscript collection falls outside the geographic scope of the Early American guide (British North America and the United States before 1840). It may be of interest to scholars interested in global history, international relations, imperialism, or the U.S. in the world.

Bibliography

Burkhardt, Frederick, *The Correspondence of Charles Darwin* (Cambridge: Cambridge Univ., 1985-). Currently 12 vols. See The Darwin Correspondence Project (<http://www.lib.cam.ac.uk/Departments/Darwin/pubns.html>).

Collection Inventory

Calendar of Letters

1 To [John Maurice] HERBERT; [Osmaston, near Derby]	[1828 Sept. 13] Saturday Evening [pmk. Se 14/ 1828]	ALS; 9x7.5 B D25.H 4p., add. [(S?) Herbert Esqr/ Post Office/ Barmouth/ N. Wales]
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Printed, with minor changes: *Life and Letters*, 172-73. p. 173, line 23, change "Yates" to "Yate".
At end of letter is: "How is Buz & Bossy [sic]. am afraid you yourself must be grown terribly
bumptious: Direct to Shrewsbury: if there is any thing you want I can send it for you to Barmouth.
Such as gloves &c &c &c".

Other Descriptive Information

1. Printed letter has erroneous date of Sept. 14, which was a Sunday.

2 To G [i.e. John Maurice] HERBERT; [pmk. Shrewsbury]	[1828 October 3] Friday [pmk. Oc 4/ 1828; wmk. 1824]	ALS; 9 x7.25 B D25.H 4p., add. [G. Herbert Esqr./ Court Calmore/ Welch Pool]
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Obliged for "labours in *the science* [of entomology]"; saw [?Thomas] Butler who told of Herbert in Wales; Herbert's courage cooled since CD left Barmouth; chiding letter from [Charles Thomas] Whitley, answered humbly by CD, received mere "acknowledgement of my *extreme candour*" and another charge of idleness; supposes Herbert enjoys Montgomeryshire and delights "all the little dear female hearts"; CD enjoys successful Music Meeting in Derbyshire, also good shooting, "Entomological pursuits", and the "Miss Foxes ¹ are very pleasant girls"; Herbert can give CD beetles & butterflies, which Butler says Herbert has, when Herbert is in Shrewsbury; CD "shall go up [?to Cambridge] early," but not by 10th; Butler goes next Tues.; P.S.: Find more beetles; get lady

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with "strong imagination" to procure beetle with "face so very dreadful"; forgets Herbert's Christian name, christens him "G" [see above].

Other Descriptive Information

1. The Misses Fox were the sisters of William Darwin Fox, CD's second cousin; the Music Meeting was held at the Fox residence. See "Darwin's Journal," 6.

3 To Cha[rl]e[s] WHITLEY; 17 Spring Gardens, London	[1831 September 9] Friday Evening [pmk. 10 SE 1831; wmk. 1830]	ALS; 9 x7.5 4p., add. [Chas. Whitley Esqr./ Post Office/ Barmouth/ N. Wales], end.	B D25.210
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Printed in facsimile: *A Letter of Charles Darwin about Preparations for the Voyage of the Beagle, 1831* (Philadelphia: Friends of the Library, American Philosophical Society, 1971).

4 To J[ohn] M[aurice] HERBERT; Botofogo Bay, Rio de Janero [sic]	1832 June [pmk. (SE?) 30/ 1832; wmk. 1830]	ALS; 11 x8 3/4; 4p., add. [J. M. Herbert Esqr./ Fellow of St. Johns Coll:/ Cambridge; (forwarded to) (W?) Maddy Esqr/ Moreton/ Near Hereford]	B D25.H
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Printed, with minor changes: *Life and Letters* I, 238-40. p. 239, line 32, after "contained", insert: "Tell [Charles Thomas] Whitley that I find my life on blue water...very pleasant,...an excellent time for reading; so quiet & comfortable, that you are not tempted to be idle." p. 240, line 2, after "reason...", insert: A short or stupid letter would end correspondence between some, "but old gentleman, you might as well try to cut your tailor as me"; letter from Herbert brings to CD "a thousand pleasant thoughts"; CD can picture Herbert "in the two extreme cases, of the *dead March*

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to Dolgelley & the bogtrotting Match with [?William] Selwyn." At end of letter is: P.S. "I have directed to you in a curious manner for fear of mistakes."

5 To J[ohn] M[aurice] HERBERT; Maldonado, Rio Plata	1833 June 2d. [pmk. Oc 2/ 1833; wmk. 1828]	ALS; 9 3/4 B D25.H x7 3/4; 4p., add. [J. M. Herbert Esqr/ Fellow of St John's Coll:/ Cambridge; (forwarded to) Lower Garthmyl/ Welshpool]
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Printed, with minor changes: *Life and Letters* I, 246-48. At end of letter is: please write again and remember CD to friends, including [Charles Thomas] Whitley; "Read [Francis Bond] Head's gallop¹ if you want an accurate account of this country." On first page of letter, written sideways, is: Has Herbert heard from F[rederick] Watkins, [Jonathan Henry Lovett] Cameron or Matthews[?]; CD wrote to former many months ago, but no answer; address in future to be Valparaiso. On second and third pages of letter, written sideways, and perhaps not in CD's hand, is: "I have just met with the following quotation in the `Sacred History of the World' taken from the *Hereford!!* Journal, *November 1824.*² `Carnations have been engrafted on Fennel & for the first two or three years the flowers will be green: Likewise Peaches on a Mulberry, in which case the fruit will have a purple dye to the stone.' Were you the original & ingenious experimentalist? I think I have heard you argue that White Lies do no harm.-- Here are green Carnations & purple Peaches brought forward [sic] to show the beneficence of Providence.-- When such evidence is proved false who will not become a Sceptic.-- Reflect--, if the author, what awful consequences may have been produced.--"

Other Descriptive Information

1. Sir Francis Bond Head, *Rough Notes Taken during Some Rapid Journeys across the Pampas and among the Andes* (London: n.p., 1826).
2. See: Sharon Turner, *The Sacred History of the World, as Displayed in the Creation and Subsequent Events to the Deluge...*, 3v. (London: Longman, Rees, Orme, Brown, Green, and Longman, 1832-1837), I, 111 and 111n; letter from "Ethelbert" in *Hereford Journal...*, November

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24, 1824; and Richard Bradley, *A General Treatise of Husbandry and Gardening...*, 2v. (London: T. Woodward and J. Peale, 1726), II, 301. F. A. Milligan, Sydney Smith, and David Wilson have assisted me with this information.

6 To Lieut[enant Charles] WILKES; 43 Grt. Marlborough St	[1836 October-November]	ALS; 7.5 x4.5 1p. and add. [Lieut: Wilkes/ Long's/ Bond Street.--]	B D25.192
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Is going into country for few weeks on Thursday; wishes to converse concerning Wilkes's "long...voyage"; unless Wilkes writes to contrary, CD "will call at Long's on Wednesday" between noon and 1 p.m.

Other Descriptive Information

1. CD did not return from the voyage of the *Beagle* until October 2, 1836 ("Darwin's Journal," 7). Wilkes was only in England from August to November, 1836 (Doris Esch Borthwick, "Outfitting the United States Exploring Expedition: Lieutenant Charles Wilkes' European Assignment, August-November, 1836," *Proc. Am. phil. Soc.*, 109 [1965]: 159-72). The Great Marlborough Street address given by CD is that of his brother's flat, at which CD visited and roomed occasionally until leaving Cambridge and taking his own rooms at number 36 down the street on March 13, 1837 (*Life and Letters* I, 277; *Darwin and Henslow*, 118 and 118n).

7 To the Master & Fellows [of] Caius College; no location	[ca. 1836-1837]	AL in third person; 4.5 x3 3/4; 1p. and add. [The Master & Fellows/ Caius College]	B P212
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"Mr Darwin presents his compliments to the Master & Fellows of Caius Coll. and is extremely sorry he is prevented by a previous engagement the honor [sic] of dining with them on Thursday.--"

Other Descriptive Information

1. Date determined by Sydney Smith, St. Catharine's College, Cambridge. The handwriting of this note appears to be in the hand of the young Darwin, and since this note shows no sign of being

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mailed--indeed seems to have been hand-delivered--it seems reasonable to conclude that CD was in Cambridge at the time it was written. This occurred in late 1836 and early 1837, right after CD returned to England from the *Beagle* voyage.

8 To Mr. [?Frederick or William] SHOBERL; [36 Great Marlborough St.]	[1837 late September]	ALS; 7 x4.5 B D25.80 3p., add. [Mr Shoberl/ Marlborough Sqr] (partially mutilated)
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Obliged for document which CD "had full right to demand", even if unnecessary; sorry for inconvenience; will send completed MS. with woodcuts before night; will write to printer about "where to send the slips"; [Henry] Colburn will see revise corrected; shall go to Shrewsbury on Monday; gives printing details; thanks Shoberl and Colburn for aid on "this my first publication." ¹

Other Descriptive Information

1. CD's "first publication" was his *Journal of Researches* [*Freeman* 4] (1839), the only Darwin work published by Colburn. Date for this letter derives from date CD finished the MS. of this work and when he left for Shrewsbury, shortly thereafter; see "Darwin's Journal," 7-8.

9 To Cha[rl]e[s] LYELL; no location	[1837 December (?19); end. Decr. 1837; pmk. DE 20/ 1837]	ALS; 9 x7.5 B D25.L 4p., add. [Chas. Lyell Esqr/ 16 Hart St.], end. [(105) Mr. Darwin on Coral islands thinly scattered over what area-- Decr. 1837]
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Does not know latitude limits of true coral islands in Pacific, but Bermuda an exception to general rule; discusses and describes coral islands and archipelagoes; "People's ideas of the Pacific are

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most false."; describes and sketches the "Corallian Sea" proposed by [Matthew] Flinders; thanks for books, but cannot read them for nearly a week, since still reading [Jean Baptiste Armand Louis Leonce] E[lie] de B[eaumont]; P.S. Tuesday night, longitudinal boundaries of Pacific coral cannot be given satisfactorily, since Dangerous or Low Archipelago and Corallian Sea are separated by "great volcanic band".

Darwin, Charles, 1809-1882	[1837 December (?19); end.	1 map, 23.5 x
Area of ocean showing the limits of coral islands	Decr. 1837; pmk. DE 20/ 1837]	18.4 cm (size of the letter)

Small sketch with no detail on the above letter.

Other Finding Aids

Realms of Gold, 11 (1).

10 To [Charles] LYELL; 36 Grt. Marlbro' St.	[1838] Aug. 9th. [end. 9 August 1838]	ALS; 9 x7.5 B D25.L 11p. and end. [(1) Mr Darwin on Elements & Glen Roy/ 9 August 1838]
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Printed, with minor changes and omissions: *Life and Letters* I, 291-95. p. 292, line 14, change "...." to "[John] Phillips will not surely go on saying that the metamorphic schists are disintegrated granite re-deposited."; p. 292, line 16, change "-----" to "Phillips"; p. 292, line 28, insert: CD visited Wednesday night, two days after Lyell left, thinking Lyell would come to London after Crag expedition; almost wrote from Shrewsbury; p. 294, line 19, change "-----'s" to "[Rev. Frederick William] Hope's"; p. 295, line 5, change "-----" to "Jones"; p. 295, line 13, insert: CD wants daytime barometer readings made at Leith on July 5, published by Brewster; also wants altitude of Lochs Tay, Dochart, Tyndrum, and Tulla; ¹ p. 295, insert: "P.S. I have seen [Robert] Fitzroy, who has bought your book. ² He looked rather black at the preface...but then came smooth again. I never cease wondering at his character,...full of good...traits but spoiled by such an unlucky temper.-- Some part of... his brain wants mending...."

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1. Lyell apparently complied; see Darwin, "Observations on the Parallel Roads of Glen Roy,..." *Phil. Trans. R. Soc.*, 129 (1839), 54.
2. Lyell, *Elements of Geology* (London: John Murray, 1838). The preface declares that the publication of Darwin's *Journal of Researches* [*Freeman* 4] (1839) has been delayed, "to the great regret of the scientific world," by the failure of Fitz Roy to complete the companion volumes to it.

11 To Charles LYELL; no location	[1838] September 13th Friday Night [end. 1838; pmk. SP15/ 1833]	ALS; 12 3/4 B D25.L x8; 4p., add. [Charles Lyell Esqr Junr./ Kinnordy/ Kerrimuir/ North Britain], end. [Darwin 1838 on tortuosity of parallel bands of Elevation & subsidence--/ (2)]
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Printed, with minor changes: *Life and Letters* I, 295-98. p. 296, line 2, insert: discussion concerning "unfortunate letter" of Governor [Henry] Prescott, a lost letter of CD, an "official document", an apparently abused frank from Lord [Spencer Joshua Alwyne Compton] Northampton, and a proposal to the Council of the Royal Society of London; p. 296, line 4, after "begin about.", insert: thanks for holiday invitation, but CD pledged to visit uncle and home for fortnight at end of October, ¹ and "till then I must not give myself even a days holidays."; p. 297, line 22, change "block" to "Polar"; p. 297, line 24, insert: "Sir D[avid?] B[rewster?]...communicated some information so useful, that I have written to him again."; gives details on "Winters *Bark*", parrots, geographical distribution in South America and in Falkland Islands, Port Famine; sent Lyell's letter to "Dr. Richardson at Portsmouth"; unhappy that Lyell says he will be away until end of November, hopes "something will bring you back before then."; p. 298, line 4, insert derogatory remarks about Babbage and his calculator; p. 298, line 6, insert: regarding marsupials, CD saw only abstract of [Henry Marie Ducrotay de] Blainville's paper; ² [Richard] Owen a better authority than Blainville, who is superficial;

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Owen says internal process in Stonesfield Jaws is confined to marsupial mammals³ and "talks of [*Ornithorhynchus*, the duckbill] leading off into the reptiles...[therefore] some reptiles formerly might have approached nearer to the Mammalian type, than...existing ones now do."; *Elements of Geology*, Lyell's new book] must be selling well, requires "hard reading" and thus does not shirk its subject, as do two of [John Frederick William] Herschel's treatises; [Edward] Charlesworth is annoyed because Lyell did not quote him more; Charlesworth is to be pitied for many reasons; Zoological Society is giving up Associate Secretary's place; [John] Gould's case of Water-wagtails does not hold.

Other Descriptive Information

1. CD became engaged during this "pledged" holiday; see "Darwin's Journal," 8.
2. Probably either "Doutes sur le Prétendu Didelphe Fossile de Stonesfield," *C. r. hebd. Séanc. Acad. Sci., Paris*, 7 (1838), 402-18, or "Nouveaux Doutes sur le Prétendu Didelphis de Stonesfield," *ibid.*, 727-36 and 749-51.
3. See Richard Owen, "Observations on the Fossils Representing the Thylacotherium Prevostii, Valenciennes,..." *Trans. geol. Soc. Lond.*, 6 (1842), 47-65; for fuller account, see *idem*, *A History of British Fossil Mammals and Birds* (London: John Van Voorst, 1846), 29-57.

12 To Cha[rle]s LYELL; Shrewsbury	[1838 November] 13th [i.e. 12th] Monday [end. Novr. 1838; pmk. NO 13/ 1838; wmk. 1834]	ALS; 9 x7.25 3p. and add. [Chas. Lyell Esqr/ 16 Hart St./ Bloomsbury], end. [Mr Darwin/ Novr. 1838]	B D25.L1
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Printed in full, with minor changes: *Emma Darwin*, I, 413-14.

13 To The Secretary of the American Philosophical Society, [Franklin BACHE]; Geological Society of London/ Somerset House	1838 Decr. 20th [end. March 1, 1839, wmk. 1836]	Printed L, filled in in ms. (not CD's hand), S by CD; 15 x9; 1p. and add. [The	A.P.S. ARCHIVES
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Secretary of
the American
Philosophical
Society], end.
[A.P.S.] Stated
Meeting/
March 1,
1839, Read]

Routine thanks for *Proceedings of the American Philosophical Society*, volume 1, numbers 1 through 3; signed by CD as Secretary of the Geological Society of London.

14 To [Richard] OWEN; no location	[1838]	ALS; 7.25 x4.5 2p.	B D25.201
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"I leave you the remaining proofs of yr. descript[ion] of *Toxodon* and a revise of first part ²...read quickly over my part. I hope there are no errata left....inform me whether you will want a second revise of your first part....I have made...remarks hap-hazard.... Have you looked at [Alcide Dessalines] D'Orbigny's travels? ³ If not,...you misunderstood...what I mentioned...[so] I have written it [correctly] below...."; P.S. sends duplicate proof for Owen to keep.

Other Descriptive Information

1. The *Toxodon* portion of the first part of the *Zoology of the Voyage of the Beagle* was published in early 1838. See: "Darwin's Journal," 8; and *Freeman*, p. 12.
2. See "Toxodon Platensis" in Darwin, *Zoology of the Voyage of the Beagle*, Pt. I: *Fossil Mammalia*, by Richard Owen ([1838]-1843), 16-35.
3. Orbigny, *Voyage dans l'Amérique Méridionale...*, 9v. (Paris: Strasbourg, 1835-47).

15 To Cha[rle]s LYELL; no location	[1839 January; end. Jan. 1839]	ALS; 7.5 x4.5 7p. and add.	B D25
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[Chas. Lyell Esqr/ 16 Hart St.], end. [1a./ Darwin Jan. 1839/ Glen Roy]

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Sends Glen Roy paper, ¹ which is legible but "ugly from my corrections"; hopes it will not be shortened, as "there is scarcely a sentence, that I have not considered whether I could strike it out, without injuring the...argument"; Lyell may keep paper to read if desired; returns books; last letter of Mr Blackadder [of Glamis] not worth mentioning; made note of information about decaying shells; regrets not having seen "Mr [Charles] Maclaren's capital chapters on alluvium" before writing the appendix, as he upsets CD's "argument of...fixed position of the boulders when drifted, but...confirms...origin of the scratches & grooves."; Maclaren's remarks on boulder positions erroneous, based on "misapprehension, that icebergs *drop* their cargoes out at sea", which CD's appendix claims is the exception to the rule; ought to have map and will soon have drawing to publish with Glen Roy paper; wishes to discuss "small amount of Alluvial action in Lochaber: occurring since "the sea retired.-- No one point interested me more...."

Other Descriptive Information

1. Darwin, "Observations on the Parallel Roads of Glen Roy,..." *Phil. Trans. R. Soc.*, 129 (1839), 39-81. Published version has map and drawing; note on decaying shells is on pp. 63-64.

16 To The Secretary of the American Philos[ophical] Soc[iety], [Franklin BACHE]; Geological Society of London, Somerset House	1839 May 23rd	Printed L, filled in in ms. (not in CD's hand), S by CD; 11.5 x9.25 1p.	A.P.S. ARCHIVES
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Routine thanks for *Proceedings of the American Philosophical Society*, volume 1, number 6; signed by CD as Secretary of the Geological Society of London

17 To Tho[mas] [Campbell] EYTON; 12 Upper Gower St	[1839 November 30] Saturday Evening [pmk. NO 30/ 1839]	ALS; 9.25 x7.5 4p., add. [Thos. Eyton Esqr/ Donnerville House/ Wellington/ Shropshire]	B EY83
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Thanks for agreeing to examine birds mentioned; ¹ birds will go to railroad this evening; they are as follows; 388 [and] 707, *Tinchorus* -----?, habits described in *Journal of Researches*, p. 110; 630, *Synallaxis maluroides*, "is it in structure a *Certhia*?"; 650, *Serpophaga albocoronata* Gould, a genus allied to *Tyrannula*; 721, *Furnarius cunicularius*, habits described as those of Casarita in *Journal of Researches*, p. 112; 722, *Opetiorhynchus vulgaris*; 728, *Uppucerthia*, interesting to dissect this and two previous, as they are altogether unlike European forms; 1037, *Pteroptochos albicollis*; 1043, *Phytotoma rara*, "a most curious finch"; 1050, *Trochilus gigas*, habits in *Journal of Researches*, p. 331, [Edward] Blyth has notion about humming birds having unique internal structure ²; 1157, *Pteroptochos Tarnii* Gray, habits of this and *P. albicollis*, above, in *Journal of Researches*, pp. 329 and 352, worthy of close examination; 1309, common North American rice bird [*Dolichonyx oryzivorus*, the bobolink]; and two birds without tickets, believed to be *Opetiorhynchi*; read on habits before examining; send account of these specimens in month or five weeks; publication date of next number of "Bird Part" of *Zoology of the Voyage of the Beagle* is uncertain; thanks for offer of Gallinaceous birds for dissection.

Other Descriptive Information

1. See Eyton, "Appendix," in Darwin, *Zoology of the Voyage of the Beagle*, Pt. III: *Birds*, by John Gould ([1838]-1843), 147-56. For CD's description of the habits of these birds, see Darwin, *Journal of Researches* [*Freeman* 4] (1839), pages as indicated above.
2. Blyth, "Outlines of a New Arrangement of Insessorial Birds," *Mag. nat. Hist.*, 2 (1838), 256-68 and 314-19, esp. 258 and 262.

18 To [the publishing firm, Henry Colburn]; 12 Upper Gower St	[1839] Thursday [?end. 1839]	ALS; 7.25 B D25.64 x4.5 3p., end.? [1839] ¹
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Capt. [Robert] FitzRoy thinks it desirable and does not object "to my appending an advertisement of the works, connected with the Beagle's Voyage," to the *Journal of Researches*; ask [Henry] Colburn for approval; thanks for yesterday's note, but CD plans to "append a fly page [giving]...notice of my works, to be bound up at end or beginning of the volume.-- I believe there are sufficient [notices] now printed...at Mr Smith, Elder..."; how late can CD send these "so as *not to delay* the binding...."

Other Descriptive Information

1. A date of "1839" is written at the head of the first page of the letter in ink similar to that used by CD, but it does not appear to be in CD's hand. Even if added later and not an endorsement by the

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recipient, this year appears correct, as the letter discusses Darwin's *Journal of Researches* [Freeman 4] (1839), the only Darwin work published by Colburn.

19 To [John Maurice] HERBERT; Maer Hall/ Newcastle Stafford	[1839-1842]	ALS; 7 3/4 B D25.H x5; 3p.
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Please send note, giving "date &c &c of *the event*"; Herbert could tell CD nothing when they last met; "We shall remain in the country (at Shrewsbury & here) for some weeks longer."; CD recovering slowly, but not yet well enough for work; "...good wishes & renewed congratulations...."

Other Descriptive Information

1. Darwin visited first Maer, then Shrewsbury, for "some weeks" during 1839, 1840, 1841, 1842, and 1844. Given the watermark of this letter, and CD's unwellness during the visit, I am inclined toward the earlier of these years, and have thus eliminated 1844. To fix the exact year, one would have to identify and date Herbert's " *event*", probably either his marriage or his ordination. "Darwin's Journal," 9-11.

20 To [Thomas Campbell] EYTON; 12 Upper Gower St	[1840 January 6]	AL, S by B EY83 init.; 7 x4.5 4p.
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Ill, headache daily for week; delighted at Eyton's progress, ² finds results curious; thanks for undertaking task; "I cannot say when the next (& last) number of Birds will appear", perhaps March 1 or two or three months later; appreciates Eyton's offer to produce engravings of specimens, but "I am anxious to spend the government grant in the best way for science, &...I have already given...too much...to the birds & Mammalia"; Eyton must decide with this in mind; Eyton may keep specimens or give them to College of Surgeons; CD has "become a Father... [as of] last Friday week: it is a little Prince"

Other Descriptive Information

1. CD's first child was William Erasmus Darwin, born December 27, 1839, a Friday; see "Darwin's Journal," 9.

2. See letter to Eyton dated November 30, 1839, calendared above. The last number of the birds part of Darwin's *Zoology of the Voyage of the Beagle* ([1838]-1843) was published in March 1841; it included Eyton's appendix, sans engravings. See: Freeman, p. 13; and Eyton, "Appendix," in Darwin, *Zoology of the Voyage of the Beagle*, Pt. III: *Birds*, by John Gould ([1838]-1843), 147-56.

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21 To Cha[rle]s LYELL; no location [1840 February (19?)] AL, S by B D25.L
 Wednesday morn. [end. Feb. init.; 7 3/4 x5;
 1840; pmk. FE (19?)/ 1840; 6p. and env.,
 wmk. 1839] add. [Chas.
 Lyell Esqr/
 16 Hart St/
 Bloomsbury],
 end. [Mr
 Darwin Feb.
 1840/ Coral
 reefs in open
 area/ no
 deeper than 20
 fathoms (106)]

Printed, with minor changes. *Life and Letters* I, 301. line, 14, change "toughish" to "longish". At end of letter is: the following new points will appear in Darwin, *Coral Reefs*; CD's belief that coral reefs at greater depths than 20 fathoms in open oceans do not exist (see *Journal of Researches* [*Freeman* 4], p. 558) contradicts [Christian Gottfried] Ehrenberg's claim of Red Sea coral beds at 25 fathoms; still, CD's argument that there must have been subsidence in *large* areas scattered with reefs, originally based on point about coral only at shallow depths, stands anyhow, since areas in which every island is low and formed of coral are *immense*; CD will use modified system of classifying reefs, namely, lagoon islands or atolls, " `encircling reefs' ", fringing reefs, and irregular reefs; modification of conclusion (see *Journal of Researches* [*Freeman* 4], p. 567) "will chiefly consist in speaking rather less positively & using the words `alternate areas' more frequently than `parallel bands' "; will not discuss distribution of organic forms in Pacific (see *Journal of Researches* [*Freeman* 4], p. 568); will come on Saturday, if well.

22 To [John] PHILLIPS; no location [ca. 1840] [end. Nov. 40; ALS; 9 3/4 B D25.123 no.
 wmk. 1838] x8; 1p. and 7
 add. [Prof.
 Phillips/ St.
 Mary's Lodge/
 York], end.

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[Darwin/ Nov.
40]

Encloses copy of paper on earthquakes; ¹ has grown older and wiser since he wrote it, so sets "less value on theoretical reasoning in geology"; still thinks there is weight in argument respecting "the necessary slow elevation of mountain chains, which have protuberant axis of Plutonic rock"; welcomes Phillips's comments.

Other Descriptive Information

1. Perhaps the manuscript of Darwin, "Observations of Proofs of Recent Elevation on the Coast of Chili [sic],..." *Proc. geol. Soc.*, 2 (1848): 446-49.

23 To [Charles] LYELL; no location	[1841 March 9;?end. 9th March 1841; wmk. 1839]	ALS; 7 3/4 x5; 7p.,?end. [9th March 1841]	B D25.L
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Printed, with minor changes and minor omissions: *More Letters*, II, 173-74 (letter 517). p. 173, line 2, add: "Your objection to objection against upheaval, in favour of glaciers (as explaining Glen Roy) about elevation (you will understand what I mean) is quite new to me and seems very sound."

24 To Charles LYELL; Shrewsbury	[1841 July] 6th Tuesday [end. june 1841; pmk. JY 6/ 1841]	ALS; 9 x7.5 7p. and add. [Charles Lyell Esqr/ 16 Hart St./ Bloomsbury Sqre/ London], end. [Mr Darwin on Coral Islands/ Belizes & Honduras; (107) <i>Darwin</i> June	B D25.L
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1841/ Coral
reefs at Belize/
& Africa
covered by
mud]

Printed, with minor changes: *More Letters*, II, 193-94 (letter 532). p. 194, line 20, add: discusses neutral tint for uncertain reefs [on CD's plate 3 in *Coral Reefs*]; concerning Red Sea, if [Christian Gottfried] Ehrenberg is correct, then Captain [Sir Fairfax] Moresby's accounts and charts indicate that "the true reefs...are more fringes to singularly formed land"; ¹ Ehrenberg, Moresby, and others will all agree if one assumes "that ancient barrier & encircling reefs, formed by subsidence, have... been *uplifted* &...worn down...& are now...fringed by...reefs"; this view too hypothetical for publication by CD; West Indies reefs are also obscure; "the symmetry of reefs seems greatly disturbed every where except in open ocean, or near open ordinary coast-lines". At end of letter is: Bermuda is similar to Bahamas--formed by elevation of ordinary land, with windward edges solidified by growth of *some* coral; health better, but will ail for years, and since " `race is for the strong' ", CD "must be content to admire the strides others make in Science.... I shall just crawl on with my S[outh] American work & be as easy as I can."; probably will return on 15 or 16, wants to see Lyell before he departs [to America].

Other Descriptive Information

1. See also letter from Darwin to Lyell, February (19?), 1840, above. Ehrenberg's account is probably his *Ueber die Natur und Bildung der Coralleninseln und Corralenbänke in Rothen Meere* (Berlin: n.p., 1834).

25 To [Charles] LYELL; no location	[1841] Friday	ALS; 8 x6.5 B D25.L 8p.
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Printed, with minor changes and minor omissions: *More Letters*, II, 148-50 (letter 499). p. 150, line 2, add: "I wish you had in your mind's eye the quantity of solid rock removed on this beach."

26 To C[harles] LYELL; no location	[1841; wmk. 1839]	ALS; 7 3/4 B D25.L x5; 7p. and add. [C. Lyell Esqr], end. [Vide p. 268
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Agassiz/ on
perched rocks
of the Alps/ in
contradistinctic
to those of
Jura??]

Gives dimensions and elevation of Chiloe Island and relationship to Cordillera; gives composition and geology of Chiloe; "In mentioning blocks on Chiloe put granite first, because I know more certainly that syenite came from Cordillera...."; blocks are strewn on shores of islets and in narrow creeks on coast, where there must have been channels, which after elevation correspond with those of [Jean Louis Rodolphe] Agassiz in valleys of Jura; see forthcoming paper; ¹ no fossils *with* boulder formations, but *on* them; doubts "perched rocks" on Jura; perched rocks, if on *pinnacles*, would be "fearful argument for Agassiz's sheet of ice."; Agassiz seems to consider angularity of Jura fragments a difficulty on *ordinary* moraine or glacier action; make no changes in published explanations, even though "your view is very probable"; "my talk with R[obert] Brown *after* that with you has knocked me up...."; [crossed out] "I have brought my mind to neglect *all* negative evidence, especially absence of shells-- Who would have anticipated [Sir Roderick Impey] Murchison's few shells in center of England."

Other Descriptive Information

1. Darwin, "On the Distribution of the Erratic Boulders and on the Contemporaneous Unstratified Deposits of South America," *Proc. geol. Soc. Lond.*, 3 (1838-1842), 425-30; and *Trans. geol. Soc. Lond.*, 6 (1842), 415-32.

27 To [Charles] LYELL; no location

[1841]

ALS; 7 3/4 B D25.L
x5; 6p.

Cannot help regarding subsidence; did Jura have present form when terrestrial animals were embedded?; if not, subsidence may have been small; all areas (forests, mountainsides, and sea-channels) need not have been cold when ice floated; "I don't look at bridge of ice, (or the subsidence, or the absence of shells, for I think I out-Lyell Lyell)" as difficulty; glacier expert [Jean Louis Rodolphe Agassiz] is best evidence, says that Jura erratics "are totally distinct" from those in Alpine valleys; idea of *sea of ice* carrying rocks in all directions from a small central point is "monstrous"; hopes there are no perched rocks on Jura; did Agassiz find caldron under existing Alpine glaciers?; caldrons are "most inexplicable part of case under every hypothesis"; agrees regarding the arguing of

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both sides of issue; can give no reasons for supposing Pentlands to be dry shortly before "elevation during ice time."

28 To C[harles] LYELL; [Bromley (from pmk.)]	[1842 October 5-7; end. Octr. 7. 1842; pmk. OC 7/ 1842]	ALS; 8 x5; B D25.L 10p. (first leaf missing) and fragment of env., add. [C. Lyell Esqr./ Kinnordy/ Kerriemuir/ N. Britain], end. [(illegible number-- PTC)/ Mr Darwin on/ Corals./ Octr. 7. 1842.]
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Printed, with minor changes: *More Letters*, II, 150-51 (letter 500). Before printed portion, add: Suspects some West Indian and Indian corals are same species; "But corals alter their habit so greatly according to where they grow, that the subject, will, I fear, for a long time be involved in great obscurity."; mentions genus *Millepora*; Crescent Island in Low Archipelago; difficulty of dead reefs not great; such exist, especially in Chagos group, according to Capt. [Sir Fairfax] Moresby; would admit difficulty if reefs as plentiful in tropical seas as vegetation on tropical land; perhaps an increase of small crustaceae in sea or actinia on shore robs a reef of food, thereby killing it; "...as we see that the presence of reefs is not universal, we ought to expect to find that those same causes, which determine their absence ab origine in some place[s], should have destroyed them in others--"; reefs perish first to leeward side of island; goes to [Geological Society of London] Council meeting tomorrow; Friday morning [October 7] has returned from 2.5-hour meeting; discussed candidates for position of curator and librarian; [?William Charles Linnaeus] Martin of Zoological Society judged best; discussed [Edward] Charlesworth's accusations of unfairness against his candidature, considered but rejected a plan to deny his accusations publicly; Charlesworth challenged [Rev. William] Buckland, Lyell, and [Sir Richard] Owen to argue the "whole old question [of the Crag controversy] before the meeting!"; "...it is not the wise who rule the unwise in this world, but the

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active rule the inactive and verily Charlesworth is...active...."; ¹ second part of sixth volume of *Trans. geol. Soc. Lond.* was approved; last Friday, had long talk with [William] Lonsdale, who was cheerful for first time in his life because of [Wollaston Fund] gift, which he will use on coral work--"a noble return" on the gift. p. 151, line 9, change "the sheep" to "two sheep". At end of letter is: excuse length of letter; CD's wife, baby [Mary Eleanor Darwin] "going on fairly well" following birth, son William stronger [?after illness].

Other Descriptive Information

1. For more on the topics discussed at this Council meeting, see Horace B. Woodward, *The History of the Geological Society of London* (London: Geological Society, 1907), 148. On Charlesworth's challenge concerning the Crag question, see *Lyell: The Years to 1841*, chapter 14, *passim*.

29 To [William Hallows] MILLER; Down (type 1)	[ca. 1842] Sunday [wmk. 1840]	ALS; 8 x5; 4p.	B D25.156
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After two-three year interval, is preparing geological notes; ¹ some blanks in MS where description of mineral specimens, sent to Miller, should be; has searched specimens returned by Miller and cannot find these; first missing specimen, according to notebook, is " `378 (yellow) a prism of 79.5, not yet ascertained'...in which the cells are half filled up horizontally"; since not yet ascertained, CD presumes Miller has it; other missing specimens, "240 & 246 (white)", were deposited with Miller, are "what [Adam] Sedgwick would...call `beastly rocks' ", and "form an entire island, though...a small one"; reply soon; has been ill; "I have left London & bought this place [Down House] & I find the change very agreeable."; those interested in welfare of Geological Society of London should attend special general meeting on December 3.

Other Descriptive Information

1. This appears to refer to the manuscript of Darwin, *Volcanic Islands* (1844); according to "Darwin's Journal", 10, CD began to revise Syms Covington's manuscript for this book on October 14, 1842, which is the reason for the date for this letter as given above.

30 To [Charles LYELL]; no location	[1842]	AL, S by init.; 8 x6.5 5p.	B D25L
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Printed in full, with minor changes: *More Letters*, II, 195-197 (letter 533). p. 196, line 31, questionable word is definitely "thickness", and italicize and underline "may".

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31 To [?William Jackson] HOOKER; 1843 June 25 L or copy of B D25.29
Down House/ Orpington Kent L; 8 3/4 x6
3/4; 1p.

Thanks for information; has sent notes on Volcanic Islands,¹ which please return after reading so CD can rewrite and correct them; has been very busy "since I came here [Down House]"; suits him at new place; is determined "to show the people the gift of mankind in regards penmanship of an unusual kind...."

Other Descriptive Information

1. Undoubtedly the MS of Darwin, *Volcanic Islands* (1844).

32 To [Charles] LYELL; Down (type 2) [1843 September] Friday ALS; 7 x4.5 B D25.L
[end. Sept. 1843; wmk. 1841](black border);
8p., end.
[(6) Darwin
on Kemp/
Sept. 1843/
germinatn of
fossil seeds]

Printed, with minor changes: *More Letters*, II, 244 (letter 577). At beginning of letter is: does not know if Lyell is still in Kinnordy; has not been to London for awhile because of wife's advanced pregnancy; at British Association meeting [in Cork the preceding August], geological department was poor, but zoological better than usual; has had "sanguine letters from [George Robert] Waterhouse", who was grateful for Lyell's aid; if Waterhouse is hired, he will "enjoy his seven shillings a day from the British Museum, as much as most men would ten times the sum..."; "forlorn" letter from [William] Lonsdale, concerning " *very fine series* of Touraine corals"; [Edward] Forbes lent Lonsdale his recent Mediterranean species; Lonsdale's only identification as yet with recent species is with "a curious, undescribed Escharina from Dartmouth harbour!" line 15, change "a vivification" to "the revivification". line 22, add: began working a MS in October, has "cut away & shortened at a good rate"; two years ago, thought MS was fit for publication; Lonsdale will describe "corallines from a (mountain limestone?) series from Van Dieman's Land". At end of letter is: greetings to Lyell family.

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33 To B.D. Walsh	[1843 December 16] Saturday [end. Decr. 1843; pmk. DE 16/ 1843; wmk. 1842]	ALS; 10 x8; B D25.L 3p. and add. [C. Lyell Esqr/ 16 Hart St/ Bloomsbury Square/ London], end. [Darwin 99a/ Tosca or Pampean mud/ not diluvium. Sections/ of it--/ Decr. 1843.], sketches
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Has consulted notes, finds "that the proposition that the Tosca was a diluvial mud is monstrous", since it "is distinctly stratified in some parts"; Tosca " *not* the last deposit"; gives illustrations, with sketches of sections, from Uruguay River and Banda Oriental; "there appears to be an older & newer tosca"; upper tosca, with exceptions, is similar "over wide spaces"; implies a disagreement over this point with [Alcide Dessalines] D'Orbigny, gives example of Rio Negro to illustrate D'Orbigny's error; finds "that the conglomerate of pumice in sandstone in the Patagonian Tertiary is apocryphal."

34 To?; Down (type 2)	[ca. 1843-1846 or 1855-1861]	ALS; 8 x5; B D25.115 1p.
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Returns Greenland Catalogue with thanks; is ashamed to have forgotten to return it sooner.

Other Descriptive Information

1. Years determined by Down address variant used.

35 To [Henry DENNY] ² ; Down (type 2)	[ca. 1843-1846 or 1855-1861]	ALS; 7.25 B D25.73 x4.5 4p.
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Thanks for note; corr. is "at perfect liberty to mention Mr. Martial's story"; ³ Martial was a ship's surgeon, but worthless and slightly educated; "perhaps, however, in some respects his story is less likely from this cause to have been invented.-- I myself do not think our supposed knowledge of

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having come from one stock ought to enter into any scientific reasoning"; Eastern and Western Europeans have different species of intestinal worms; cannot now search for specimens, but will do so later if requested; Pediculi perish on wild animals during passage to England, and a slight fever or *broken wrist with no fever* can cause evacuation of intestinal worms, which shows that slight changes in constitution affect parasites.

Other Descriptive Information

1. Years determined by Down address variant used.
2. Written on original letter by CD's son was Denny's name.
3. See Darwin, *Descent of Man* (1871), I, 219.

36 To?; Down (type 2)	[ca. 1843-1846 or 1855-1861]	ANS; 8 x5; 1p.	B D25.22
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Sends short and interesting addition to be tacked on to end of [?Thomas Henry] Farrer's paper, if corr. prints it.

Other Descriptive Information

1. Years determined by Down address variant used.

37 To [Henry DENNY]; Down (type 1)	[?1844]	ALS; 7.25 x4.5 3p.	B D25.72
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Would like to help Denny; collected some lice, but part of collection was lost and CD has been prevented from going over his zoological collection by ill health and desire to finish geological works; will go over collection soon and will then save lice for Denny; [George Robert] Waterhouse can help identify CD's ticketed specimens for Denny.

Other Descriptive Information

1. CD sorted his collections in mid-1844, after finishing his *Volcanic Islands* (1844); see "Darwin's Journal," 10-11.

38 To [Leonard] HORNER; Down (type 1)	1844 Aug 29th [end. 29 Aug 44; wmk. 1842]	ALS; 7.25 x4.5 7p. and end. [C. Darwin/ 29 Aug 44]	B D25.L1
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Printed, with minor changes and minor omissions: *More Letters*, II, 115-17 (letter 480). p. 116, line 15, questionable word is definitely "relieved". p. 116, line 25, change "unfilled" to "upfilled". At end of letter is: Emma [Wedgwood Darwin] will give instructions for travel to Down.

39 To C[harles] LYELL; Down (type 1)	[1844 September] Sunday [end. Sept. 1844; wmk. 1842]	ALS; 7.25 x4.5 7p. and fragment of env., add. [C. Lyell Esqr/ 16 Hart St/ Bloomsbury Square/ London], end. [Sept. 1844/ Darwin/ Patagonia/ rising gragually--/ Mastodon/ D'Orbigny/ sudden upthrust of/ Patagonia controverted], sketch	B D25.L
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Printed, with minor changes and minor omissions: *More Letters*, II, 117-20 (letter 481). p. 119, line 22, change "Pampas [debacle?]" to "Pampaean debacle [i.e. Pompeian earthquake]". p. 120, line 17, add: regards to Lyell's wife and had hoped to have seen Horners at Down.

40 To?; Down (type 1)	[?1845] Jan 26th [wmk. 1844]	ALS; 7.25 x4.5 6p.	B D25.126
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III; extract, sent by corr., is fullest account CD has seen, refers to island called Pouynipete or Seniavane [i.e. Seniavine or Senyavin]; this is same island as is mentioned in Darwin, *Coral Reefs* (1842), pp. 127 and 168; describes how he can claim this; description sent by corr. apparently refers

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to a high island, a significant fact for CD, but "Every one knows how greedily a theorist pounces on a fact, highly favourable to his views," thus CD wished to believe in this fact; nevertheless, CD skeptical of it; writer spoke of granite blocks, but CD thinks island is volcanic; moreover, CD "heard (perhaps...unjustly) very indifferent accounts of Dr. Lloghtsky's moral character; agrees that the case is neither fully established in fact nor fully fabricated; "I have very little doubt that hereafter, the existence of former wide tracts of land, since buried in the ocean by subsidence, will turn out the chief means of the migrations & passage of animals, plants & man, from one part of the world to another", gives examples to demonstrate this; apologies for length of letter, thanks for prompt answer, compliments to "Miss Smith".

41 To E[dward] W[illiam] BRAYLEY; Down, Kent	1845 Feb. 7th [wmk. 1844]	ALS; 7.25 x4.5 2p. and add. [E. W. Brayley Esqr]	B D25.253
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Letter of recommendation. Brayley apparently applying for a lectureship in geology; praises Brayley's "remarkable powers in acquiring scientific knowledge of varied kinds, &...your extensive reading."

42 To C[harles] LYELL; Down (type 2)	[1845 February 8] Saturday [end. 1845; pmk. FE 8/ 1845; 3p. and wmk. 1842]	ALS; 10 x8; [C. Lyell Esqr/ 16 Hart St./ Bloomsbury Sqr/ London], end. [Darwin (9) 1845/ Dorbigny on S. Amer/ ican shells common] to Europe, Silur-/ian & Cretaceous/	B D25.L
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1st. & 2d. p.
of letter]

[Alcide Dessalines] d'Orbigny describes ten Silurian fossils from eastern Bolivian Cordillera as similar to European species, does same for seven Devonian fossils and 23 Carboniferous fossils, although two of the latter, viz. *Natica antisinensis* [i.e. *antisimensis*] & *Spirifer Roissyi*, are not new species; five of the cretaceous fossils, says D'Orbigny, are common to Paris Basin; ¹ forgot, when with Lyell on Thursday, to ask Lyell to speak again to [John] Murray about CD's *Journal of Researches* [*Freeman* 7 or 8] (1845); since their meeting, saw [Hugh] Cuming about South American fossils and "their range with respect to my Tertiary species"; only series Cuming has not examined and wishes to examine are about 90 shells from Patagonia and Tierra del Fuego; wishes to have this done for several reasons; discusses arrangements to do so; "I fear you will think this so much trouble, that you will wish I had never given you my collection."

Other Descriptive Information

1. Letter explicitly refers to Orbigny, *Voyage dans l'Amérique Méridionale...*, v.3, pt. 3: Geologie (Paris: Strasbourg, 1842), 226, 230 [sic; should be 233], and 239.

43 To [Charles] LYELL; Down (type 2) [1845 July] Saturday [wmk. ALS; 10 x8; B D25.L
1845] 4p.

Printed, with minor changes and minor omissions: *Life and Letters* I, 337-39. p. 338, line 16, change "the first" to "this first". p. 338, last line, add: remembrances to Lyell's wife; CD's wife remains "wearismme". At end of letter is: remembrances to Lyell family at Kinnordy.

44 To [Charles] LYELL; Down (type 2) [1845 August 2] (Saturday) ALS; 10 x8; B D25.L
[end. 1845 and in another 9p. and end.
place Aug. 1. 1845; wmk. [(4) 1845/
1842] C. Darwin/
Criticisms
on/ Lyells
Travels in/
U.S &c/ (4)]
and [Darwin/
Aug. 1. 1845]

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Printed: *Life and Letters* I, 339-41. At end of letter is: remarks on eight particular passages in Lyell's new book,¹ as follows: v. 1, p. 81, on resemblance of corals, shells, & insects and on analogy of Arctic and Antarctic fauna; v. 1, p. 138, on extinct species of *Fulgur* and *Gnathodon*; v. 1, p. 150, on breathing as source of carbonic acid; v. 1, p. 181, on means of water-erosion on seam of carbon; v. 2, p. 37, on Fuegians using a hollowed tree; v. 2, p. 54, on wood or fruits floating on sea; v. 2, p. 65, on buffaloes killed while rushing to drink; v. 2, p. 189, on parallels between present Arctic and Lyell's Carboniferous floras, in terms of extent of distribution; "Might you not...bring more prominently forward the absurdity of arguing from one quarter of the globe, without knowing what was going on in other parts..."; CD's wife and baby [George Howard Darwin] are well; further family details; "P.S. *Have you any of my volumes of Lamarck???*"

Other Descriptive Information

1. Lyell, *Travels in North America...*, 2v. (London: John Murray, 1845).

45 To [Charles] LYELL; Down (type 2)	[1845] Aug. 25th.-- [wmk. 1842]	AL (incomplete); 10 x8; 4p.	B D25.L
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Printed, with minor changes: *Life and Letters* I, 341-42. p. 341, line 3, add: "*Please read this before you go*" to America on September 4; concerning radiation of snow, CD opposes "the colour-doctrine.-- I find from [?John] Leslie (in [Andrew] Ure¹), the radiating...power of Lamp-black being called 100, and gold, silver, copper being 12; Writing paper is 98, plumbago 75 and ice is 85. From [William Charles] Wells,² it appears, that when swan-down...exposed to open sky falls 16°; grass falls 15°; & snow falls between 12° & 13°: gravel & flag-stone...are inferior to grass, but how much is not said."; Dr. [Patrick] Wilson gives similar data; concludes that snow-covered land "radiates its heat, but little less than the most favourable land." p. 342, line 12, add: multiple and single creations probably discussed in latest *Kosmos*, since H. [?Friedrich Heinrich Alexander von Humboldt] discussed this with [Joseph Dalton] Hooker "& Humbolt [sic] is a multiple man."; hopes Lyell's next excursion will be to Sicily, to study evidence for and to refute craters of elevation theory. p. 342, line 21, add: will miss visiting Lyells while they are away. p. 342, line 22, add: will send third part of Darwin, *Journal of Researches* [*Freeman* 7, pt. 3] (1845) on Monday.

Other Descriptive Information

1. This work might be Ure, *A Dictionary of Arts, Manufactures, and Mines* (London: Longman, Orme, Brown, Green, & Longmans, 1839), although I could not pinpoint the precise passage to which CD refers. 2. CD refers to Wells, *An Essay on Dew...* (London: Taylor and Hessey, 1814),

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esp. 43-50. See also Richard Harrison Shryock, "The Strange Case of Wells' Theory of Natural Selection (1813)...," in M. F. Ashley Montagu, ed., *Studies and Essays in the History of Science and Learning... in Homage to George Sarton...* (New York: Henry Schuman, [1946]), 195-209.

46 To Charles LYELL; Shrewsbury	[1845] October 8th.-- [pmk. OC 8/ 1845; wmk. 1842]	ALS; 9 x7.5 B D25.L 4p., add. [Charles Lyell Esqr/ Post Office/ Boston/ United States], end. [Mr Darwin/ Queries about negroes]
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Printed, with minor changes: *Life and Letters* I, 343-45. At beginning of letter is: has not written because has "seen hardly anyone & done little"; "...it has been asserted that on the negroes born in N[orth]. America, the lice are larger & of a blacker colour, than the dommon species; & that the European lice will not live on negroes."; has heard analogous story about men of Sandwich Islands; asks Lyell to check this and to send specimens of lice from blacks to [Henry] Denny; [Edward] Long's *History of Jamaica* [London: T. Lowndes, 1774] states that mulattos cross sterile; asks Lyell for comparative information on crosses of "Indians & Europeans & Negroes & Europeans". p. 344, line 14, change "our scientific" to "non-scientific". p. 344, line 17, missing name is [William John] Broderip.

47 To [?Isaac ANDERSON-HENRY]; Shrewsbury	[1845-1848]	ALS; 7.25 B D25.188 x4.5 3p.
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Is visiting his father; thanks for offer to experiment on hybrids; please record "all faots, such as the number of plants you experimentise on, their names &c &c.--"; "Negative facts (Ie failures) are as important to know as successes.--"; will acknowledge source of all results published; sends copy of Darwin, *Journal of Researches [Freeman 8]* (1845), which "is I hope somewhat improved, from the 1st [edition] that was published."

Other Descriptive Information

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1. The second edition of the *Journal of Researches* was published--or printed, at least--in 1845; CD's father died in 1848. These set the endpoints for the date. Anderson-Henry was chosen as correspondent merely because this letter was purchased in a lot with another letter to Anderson-Henry and apparently was glued in a scrapbook along with the other letter at one time.

48 To [Richard] OWEN; Down (type 2) [1846 May 12] Tuesday ALS; 7.25 B D25.181
x4.5 2p.

Wishes to see Owen on Thursday morning concerning Mammifers of the Plata; if Owen cannot see CD then, send note to "7 Park St Grosvenor Sqr"; has begun reading Owen on British fossils [i.e. *A History of British Fossil Mammals and Birds* (London: John Van Voorst, 1846)].

Other Descriptive Information

1. Date determined by Sydney Smith, St. Catharine's College, Cambridge University.

49 To Charles LYELL; Shrewsbury [1846 August 8] Saturday ALS; 10 B D25.L
[end. Augt. 10--1846--; pmk. x8; 4p., add.
AU 8/ 1846; wmk. 1842] [Charles Lyell
Esqr. Junr.--/
Kinnordy/
Kirriemuir/
Scotland],
end. [(11)/ C.
Darwin/ Augt.
10--1846--/ on
his work on/
volcanos/ on
hybrids]

First portion printed, with minor changes: *More Letters*, II, 222-24 (letter 557). At end of this portion is: pleased that Lyell will read Darwin, *Volcanic Islands* (1844); cost 18 months work, but few have read it; "now [that Lyell is reading it] I shall feel whatever little (& little it is) there is confirmatory...will work its effect...."; wishes he could say same for Darwin, *South America* (1846), but cannot; wanted to discuss with Lyell the foliation of metamorphic schists, the absence of recent conchiferous deposits, and the deposit of tertiary formations during subsidence; has corrected two-thirds of *South America* and hopes to publish during August; returns to Down on Tuesday; family ill; sends regards; must do proofreading.

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Next portion printed, with minor changes: *Life and Letters* I, 327, lines 3-7. At end of this portion is: regards to wife.

50 To C[harles] LYELL; no location	[1846 October 3; end. 1846; ALS; 10 x8; B D25.L pmk. OC 3/ 1846; wmk. 1842]	3p. and add. [C. Lyell Esqr/ 11. Harley St/ Cavendish Sqr/ London], end. [(10) Darwin on Ramsays/ paper on Denuda/tion/ 1846--]
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Printed in full, with minor changes: *More Letters*, II, 120-22 (letter 482). p. 121, line 23, change "foundations" to "formation"/.

51 To [Smith, Elder, and Company]; 7. Park St./ Grosvenor Sqr	[1846 October 19] Monday night [end. Oct 20, 1846]	ALS; 7 x4.5 B D25.128 3p. and end. [C. Darwin by/ Park St./ Oct 20, 1846]
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Has received his copy of Darwin, *South America* (1846); "coloured Plate [i.e. Plate I]" has "its back to all the letter press; it is almost impossible to refer to it" this way; "a *stupid* trick"; orders corr. to cut out all plates that are bound and make them front the letterpress; likes looks of volume; has not seen any advertisements yet.

52 To [Andrew Crombie RAMSAY]; Down (type 3)	[?1846]	ALS; 7.25 B D25.174 x4.5 11p.
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Ill for week; thanks for letter; glad Ramsay values parts of book [Darwin, *South America* (1846)]; concerning "traces of Terraces", a "hobby-horse" of CD, did not see signs of such terraces on recent visit to Snowdonia in North Wales; even recent paper² on Scandinavian drift by [Roderick

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Impey] Murchison errs by "speaking of...successive terraces as the direct effects of so many elevations [rather than as] the indirect effect of an elevation, & the direct effect of the sea's destroying power...."; does not know whether old Tertiary beds of South America were submerged until recent layers set down, but certain they were slowly uplifted, with low parts long submerged; "I think this absence of any considerable recent fossiliferous deposits on both E. & W. coasts, the most remarkable thing I observed" in South America; see page 135 of Darwin, *South America* (1846); this subject "helps to explain the breaks in Geological chronology & has disabused my mind of a prejudice that *durable* fossiliferous formations are in most places now accumulating."; thinks "ejected volcanic crystals of glassy feldspar are always broken.--"; found Murchison's thin Silurian lavastreams near Stiper Stones to be *injected*; for measurements of thin streams, see Darwin, *Volcanic Islands* (1844), 103 and 109; Ramsay working at interesting site, [?Edward] Forbes gave information on it; where lavas are vesicular and decomposed, has seen "most marvellous transitions into sedimentary beds", partly caused by compression and movement of once-solid lava; impossible to say "where lava ended & tuff began, though neither [were] in the least metamorphosed."; suspects some metamorphosis; doubts alleged high erosive power of gravel on underlying rocks beneath a sea of any depth; apologies for long letter; directs letter to Charing Cross, since Ramsay probably back from Bala [Wales].

Other Descriptive Information

1. Year based on publication date of Darwin, *South America* (1846).
2. Murchison, "On the Superficial Detritus of Sweden,..." *Q. Jl. geol. Soc. Lond.*, 2 (1846), pt. 1: 349-81.

53 To [Leonard] HORNER; Down (type 3) [1846] Monday	ALS; 7 x4.5 B D25.257 4p. (enclosure wanting)
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Printed in full, with minor changes: *More Letters*, II, 174-75 (letter 518). Also printed in Katherine M[urray Horner] Lyell, ed. *Memoir of Leonard Horner...Consisting of Letters to His Family and from Some of His Friends*, ed. by his daughter..., 2v. (London: Women's Printing Soc., Ltd., 1890), II, 103.

54 To [(?William) HUTTON] ¹ ; Down (type 2) (black border)	[?1846]	ALS; 7 x4.5 B D25.14 1p.
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Thanks for loan of Horticultural Journal; has read Dr. [William] Herbert's paper² "with interest"; will return journal to Athenaeum Club; joins wife in regards to "Mrs. Hutton" and family.

Other Descriptive Information

1. CD refers to *Jl R. hort. Soc.* (see Stauffer, ed., *CD's Nat. Selection*, index entries under William Herbert); first volume published in 1846, thereby setting lower endpoint for date. Articles by Herbert appeared in volumes 1 (1846) and 2 (1847), but in no later volumes. Corr. seems to be William Hutton, because John Lindley was a close friend and colleague of this Hutton and was also a leading figure in the Horticultural Society of London at this time; moreover, William Hutton was a geologist with an interest in botany and fossils, which suggests both that CD knew him and that he would be interested in horticultural matters. William Hutton died in 1860, thereby setting upper endpoint for date. He was on the island of Malta from 1846 to 1857 (see *DNB*, 28, 363), leaving only 1846 and 1857-1860 as possible dates for letter. Black border indicates death in Darwin family; only deaths during these years were CD's mother-in-law in 1846 (see *Emma Darwin*, II, 89) and CD's son and his eldest sister in 1858 (see "Darwin's Journal," 14 and 14n). Earlier year chosen because style of handwriting and ink used (a lighter brown than usual) match style and ink of 1846 letters better than style and ink of 1858 letters.

2. Probably "Local Habitation and Wants of Plants," *Jl R. hort. Soc.*, 1 (1846): 44-49.

55 To W[illiam] B[enjamin] CARPENTER; Down (type 3)	[ca. 1846-1855]	ALS; 7.25 x4.5 4p.	B D25.157
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Sorry to have broken engagement, but was unwell; is "most anxious" to have Carpenter's advice; would make special trip [to London] to see him and to order microscope; Carpenter's note convinced CD to get [a microscope] and "I groan to think over the 3 or 4 months [until delivery of the microscope]"; discusses details of possible meeting times.

Other Descriptive Information

1. Years determined by Down address variant used.

56 To?; Down (type 3)	[ca. 1846-1855]	ALS; 7 x4.5 3p.	B D25.21
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Enclosed probably longer than corr. wished, but "a page in Annals swallows up much M.S."; has marked a page for extraction, "without which [page] my remark w[oul]d be unintelligible"; note "expresses my *most honest* conviction after *careful* perusal...", despite its laudatory tone; gives permission to alter but not to shorten; offers to proofread galley, "as my style is often very faulty."

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Other Descriptive Information

1. Years determined by Down address variant used.

57 To C[harles] LYELL; no location	[1847 January 20; end. Jany/47; pmk. JA 20/ 1847; wmk. 1846]	ALS; 7.25 x4.5 3p. and add. [C. Lyell Esqr/ 11. Harley St/ <i>London</i>],end. [(112)/ Darwin -- Jany/47/ Structure of Gneiss]	B D25.L
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To show that CD not "overrash in generalising my conclusion", copies passage from Darwin, *South America* (1846), page 167, which begins on line 6 and ends on line 14 of that page, concerning cleavage and foliation.

58 To [Charles] LYELL; Down	[1847 January 24] Sunday	ALS; 7.25 x4.5 5p.	B D25.L1
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Concerning reefs of Tahiti. Supposes "reef under water" to be dead semi-submerged rock separating living reef from "the islets, which Dr Gould calls the Barrier."; Tahiti less perfectly encircled by reefs than other islands of its group, but considers it encircled because of [James] Cook's chart,¹ which has been verified by the French; see page 152 of Darwin, *Coral Reefs* (1842); reef is much broken where ships enter; Americans unaware of submerged and probably dead part of reef described in *Nautical Magazine* for 1836;² this is the least perfect part, according to Cook; did not color it in plate without consideration; [Joseph Dalton] Hooker visiting Down, working at paper on coal plants³ and conversing with CD; Hooker admires [Charles James Fox] Bunbury's papers.

Other Descriptive Information

1. Perhaps the chart reproduced as Chart V in R. A. Skelton, ed., *The Journals of Captain James Cook on His Voyages of Discovery: Charts & Views Drawn by Cook...*, printed for the Hakluyt Society (Cambridge: Cambridge Univ. Press, 1955).

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2. W. Forbes, "Description of the Reefs on the North-east Coast of Tahiti,..." *Nautical Magazine*, 5 (1836): 264.

3. Hooker, "On the Vegetation of the Carboniferous Period,..." *Mem. geol. Surv. U. K.*, 2 (1848): 387-430.

59 To C[harles] LYELL; Down (type 3)	[1847 March 7] Sunday [end. March 7. 1847; pmk. MR 8/ 1847]	ALS; 9 3/4 B D25.L x8; 3p. and add. [C. Lyell Esqr/ 11 Harley St/ London],end. [(12) Darwin/ March 7. 1847/ R. Chambers on Paralell/ Roads of Glen Roy]
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Thanks for copy of seventh ed. of *Principles of Geology...* (London: John Murray, 1847) with "much new...to refer to"; wants list of new parts. as promised, since CD too busy to read *in toto*; [?Charles] Stokes has lent CD volumes 1-30 of *Annls. Sci. nat.*; has been ill; sorry to have missed Lyell while in London; Robert Chambers gave CD a sketch of [David] Milne[-Home]'s views on Glen Roy, ¹ and CD has reread his own paper ² and is "now, that I have heard what is to be said, not even staggered." ³; Chambers did not read CD's paper with care and did not look at CD's colored map, ⁴ so "the new shelf...had not been searched for,..."; was "quite chicken-hearted" at Geological Society of London until Lyell reassured him; Darwin, *South America* (1846) has had " enormous sale" of 100 copies; CD's father better, but "much changed bodily" in last six months.

Other Descriptive Information

1. Milne, "On the Parallel Roads of Lochaber,..." *Trans. R. Soc. Edinb.*, 16 (1849): 395-418. See also: *Proc. R. Soc. Edinb.*, 2 (1844-1850); 124-25 and 132-33; and *Edinb. new phil. J.*, 43 (1847): 339-64.

2. Darwin, "Observations on the Parallel Roads of Glen Roy,..." *Phil. Trans. R. Soc.*, 129 (1839): 39-81.

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3. See Paul H. Barrett, "Darwin's `Gigantic Blunder'," *Journal of Geological Education*, January 1973; 19-28.

4. Darwin, *op. cit.* (note 2), Plate I.

60 To C[harles] LYELL; Down	[1847 June] Wednesday [end. June 1847]	ALS; 9 3/4 B D25.L x8; 3p. and add. [C. Lyell Esqr], end. [C. Darwin/ June 1847/ On Dr.Morton's/ paper on/ Hybridity/ (13)]
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Returns [William] Whewell correspondence, likes Lyell's bold reply; ¹ returns [volume 3 of] *Silliman's J.* containing [Samuel George] Morton's article; ² glad to have seen latter, but thinks it "a merely tabulated compilation from [Edward] Griffith's Cuvier"; ³ Morton's worst fault is failure to consult primary sources; gives examples of this concerning dubious hybrids, refers to [Coenraad Jacob] Temminck; "What a capital Journal Silliman's is; there is always something of interest in it."

Other Descriptive Information

1. See I. Todhunter, *William Whewell...*, 2v. (London: Macmillan and Co., 1876), I, 161.
2. Morton, "Hybridity in Animals, Considered in Reference to the Question of the Unity of the Human Species," 39-50 and 203-12.
3. Georges L. C. F. D. de Cuvier, *The Animal Kingdom...*, with additional descriptions...by Edward Griffith..., 16 v. (London: Geo. B. Whittaker, 1827-1835).

61 To [Mrs. M. A. T. WHITBY]; Down (type 3)	[1847]	ALS; 9 3/4 B D25.102 x8; 3p.
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Information on silkworm provided by Whitby "last year at Southampton"; in moths raised from silkworms kept in captivity, are the wings crippled and is flight impossible; is this especially true in France and Italy; if so, are males and females equally flightless; presumes case similar to domestic ducks; has Whitby tried "two experiments on hereditariness" which CD suggested, viz., first, whether black-eyebrowed caterpillar produces black or dark-eyed caterpillar young; and second, if

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fat caterpillars called Frales produce moths and, if so, whether moth offspring are "likewise fat & silkless."; needs results, "for in a work which I intend some few years hence to publish on variation, there will be hardly any facts in the insect world."; are there differences in habits in different caterpillar breeds.²

Other Descriptive Information

1. CD and Whitby met at the September, 1846, meeting of the British Association, held at Southampton; see Whitby, "On the Cultivation of Silk in England," *Rep. Br. Ass. Advmt Sci.*, 16 (1846), pt. 2: 87-88.

2. See Darwin, *Variation under Domestication* [*Freeman* 233] (1868), I, 302-03.

62 To?; Down (type 3)	[?1847] Sept 7th [wmk. 1847]	ALS; 7.25 x4.5 4p.	B D25.265
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Some years ago, took his collection of *Mollusca* in spirits to [?George Brettingham] Sowerby [? the elder]; more interesting forms, including many cirripedes, were then sent to [Richard] Owen; describes physical features of specimen bottles, asks corr. to look for them; "it is most mortifying...to have lost my own Cirripedia, now that I am at work on them."; will be in London in October, will call on corr. "at the [?Royal] College [?of Surgeons] and look over corr.'s cirripede collections; offers corr. a first-stage *Scalpellum* larva without striation.

63 To C[harles] LYELL [<i>sic</i>]; ¹ no location	[1847 October 4] Monday Morning [end. Oct. 1847; pmk. OC 4/ 1847]	ALS; 9 3/4 x8; 3p. and add. [C. Lyell Esqr--/ 11. Harley St/ London], end. [Darwin (110)/ Oct. 1847/ Glen Roy/ Glacier Theory]	B D25.L
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Printed, with minor changes: *More Letters*, II, 187088 (letter 523). At beginning of letter is: Obligated for barnacles; the one marked "Bergen" is the right one, but its locality is unknown; it is not a Conia; will keep shells, including new one, until review of them is finished; thank husband for note; "what

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an awful joke...if we had all subscribed for a horrid calf's head?"; will be "grievous" if Coal Saurian proves to be a fish; "I will hope still that [Jean Louis Rodolphe] Agassiz's positive assertions may be disproved by bones, as well as footsteps.--"

Other Descriptive Information

1. While letter is addressed to Charles Lyell, the salutation greets his wife, Mary Elizabeth Horner Lyell.

64 To [Charles] LYELL; no location [1847 October 11] Monday ALS; 7.25 B D25.L
x4.5 4p. and
1p. enc.

Encloses measurements representing results of comparison of Lochaber and Galashiels Terraces, the latter measured by [William] Kemp; results "wonderful", show similar elevations for terraces in two locations; believes measurements of [Alan] Stevenson and [Robert] Chambers are correct, those of [John] Macculloch are wrong; told Chambers that Lyell and CD both thought ice-lake theory worth considering, Chambers replied that this was dream; [Charles] Maclaren did not insert abstract of [David] Milne[-Home]'s paper¹ into *Scotsman* and thus will not insert CD's letter;² [Robert] Jameson will insert it in *Philosophical Journal*, but CD has written Jameson "to beg him to destroy it."; will return [Casterordes?] paper with [Hugh] Miller's [book];³ Down House full of relatives.

Other Descriptive Information

1. "On the Parallel Roads of Lochaber,..." *Trans. R. Soc. Edinb.*, 16 (1849); 395-418; *Proc. R. Soc. Edinb.*, 2 (1844-1850); 124-25 and 132-33; *Edinb. new phil. J.*, 43 (1847): 339-64.
2. Printed at the end of Paul H. Barrett, "Darwin's 'Gigantic Blunder'," *Journal of Geological Education*, January 1973: 19-28.
3. *First Impressions of England and Its People* (London: J. Johnstone?, 1847); see *More Letters*, II, 188.

65 To [Charles] LYELL; no location [1847 (?ca. October)] ALS; 7.25 B D25.L
x4.5 4p.

Printed, with minor changes: *Life and Letters* I, 328n. At end of letter is: delighted by letter² from [Bernhard] Studer to [James David] Forbes showing that layers in gneiss have nothing to do with stratification in Alps; this agrees with Darwin, *South America* (1846); tell [Leonard] Horner of this, as Horner wished to know what things were in the book; enjoyed Lyell's visit to Down; regards to wife.

Calendar of Letters

Other Descriptive Information

1. Lyell visited Down in October, 1847; see *Life and Letters* I, 360.
2. "Remarks on the Geological Relations of the Gneiss of the Alps," *Edinb. new phil. J.*, 42 (1846-1847): 186-87.

66 To [Henri] MILNE-EDWARDS; Down (type 3)	1847 Nov. 18th [pmk. 20NO20/ 1847; wmk. 1846]	ALS; 9 3/4 x8; 3p and add. [A Monsieur/ M. Milne Edwards/ Membre de l'Institut/ et Professeur a l'ecole Centrale des Arts/ Paris]	B D25.20
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Has, he believes, the male, the female, and the larvae (in different states) of a "singular Lernaea like animal, which is parasitic on Balanus"; these are identified erroneously as the male of the Balanus and as a new genus of isopodous Crustacean parasitic on this male Balanus by [Harry (*not* Henry, as is printed with article) D. S.] Goodsir in ["On the Sexes, Organs of Reproduction, and Mode of Development, of the Cirripeds,..."] *Edinb. new phil. J.*, 35 (1843): 88; offers specimens of these to Milne-Edwards, "to whose publications, I have long owed much pleasure & instruction"; could send them through Baillieu the Bookseller.

67 To [?Robert] HUTTON; Down (type 3)	[1847-1848]	ALS; 7.25 x4.5 2p.	B D25.245
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Thanks to Hutton and friend for help in obtaining introduction to Lady E[mily Georgiana Bagot] Finch[-Hatton, Countess of Winchilsea and Nottingham], but right after seeing Hutton at Geological Society of London, CD heard from his father that an old friend could provide introduction; regards to Hutton family.

Other Descriptive Information

1. Watermark is lower endpoint; death of CD's father in 1848 is upper.
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Calendar of Letters

68 To [Charles] LYELL; Down (type 3) [ca. 1847-1849] Wednesday Copy of L; B D25.L
8th 10 x8; 6p. and
end. [Darwin/
Letter on Glen
Roy/ Milne's
paper]

Printed in full, with minor changes: *More Letters*, II, 181-87 (letter 522). p. 184, line 14, pluralize "lake". Original of this letter is in Cambridge University Library; see *Handlist of Darwin Papers*, 13.

69 To [George Robert] WATERHOUSE; [1847-1855] Sunday [wmk. ALS; 7.25 B D25.211
Down (type 3) 1847] x4.5 3p.
and end. [C.
Darwin Esqr]

Heard Wednesday at Museum that Waterhouse expected back soon; invites Waterhouse for dinner at Down on Saturday the twelfth, return to London Monday morning; [Charles and Mary] Lyell, [Edward] Forbes, [Andrew Crombie] Ramsay, and R[obert Hermann] Schomburgk are also invited; wants to hear "some news of your foreign trip."

Other Descriptive Information

1. Upper endpoint set by type of Down address used.

70 To Lady [?Harriet Hotham] LUBBOCK; [1847-1865] Wednesday ALS; 7 x4.5 B D25.15
no location Even/ Thursday mg. [wmk. 1p.
1847]

Do not worry about missing volume, covered with brown paper, with no title outside; it will turn up some day and will not be needed soon; has received husband's check and will send receipt with microscope, when complete.

Other Descriptive Information

1. Lady Harriet Hotham Lubbock's husband died in 1865; it is unlikely that this letter, with its 1847 watermark, refers to the wife of John Lubbock, first Baron Avebury.

71 To [John Edward] GRAY; no location [ca. 1848 January] ALS; 7.25 B D25.91
x4.5 3p.

Calendar of Letters

(enclosure
wanting)

Regarding loan of the cirripede collection of the British Museum to CD. Enclosed request for collection in groups (pedunculated and sessile separate) is sent to Gray for approval; will correct if Gray disapproves; getting specimens in these two lots is best arrangement for CD; could divide sessile into two sub-groups if necessary; has not mentioned duration of loan for fear of being hampered.

Other Descriptive Information

1. See next letter, below, for date.

72 3)	To [John Edward] GRAY; Down (type 3)	[1848 February 6] Sunday [end. 8 Feb 1848; wmk. 1847]	ALS; 7.25 x4.5 6p., end. [8 Feb 1848] (enclosure wanting)	B D25.92
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Received yesterday Gray's note with "good tidings of the great liberality of the Trustees. Now if I do not make a tolerably good monograph, it will be purely my own fault."; encloses thank-you note for Trustees; is not ready for specimens yet, will not be ready for species part for six weeks; will begin with pedunculated division; will consult Gray on size of first loan; would appreciate names of as many specimens as possible, although this is troublesome; "Without your assistance I shd break down with the synonymy [*sic*; synonymy]."; has all of Mr. Stutchbury [of Bristol]'s collection, which is partly named after British Museum; thanks for "conduct...most generous & handsome".

73	To C[harles] LYELL; Down (type 3)	[1848 June 16] Friday [end. 1848; pmk. JU 17/ 1848; wmk. 1847]	ALS; 7.25 x4.5 8p. and env., add. [C. Lyell Esqr/ 11. Harley St/ London],end. [(104) Darwin/ Chambers/	B D25.L
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Calendar of Letters

paralell/ roads/
1848]

Printed, with minor changes: *Life and Letters* I, 362-63. At beginning of letter is: tells [Mary Elizabeth Horner] Lyell of relief felt by CD and wife over "wonderful escape" of Miss [?Ann] S[? usan] Horner, which CD heard about since seeing Lyell on Wednesday at Council [of Geological Society of London]; "[Leonard] Horner...had a horror of the sea & now it is...justified." p. 362, line 3, missing name is [William] "Buckland". At end of letter is: "If he [Robert Chambers] be, as I believe, the Author of the Vestiges [of the Natural History of Creation] this book [*Ancient Sea Margins...*] for poverty of intellect is a literary curiosity.-- I have written all this, as I believe it may save you reading the Book; it is to the best of my Belief, an honest account."; shall be in London before Lyell leaves [for Kinnordy]; wishes to visit Lyell then.

74 To [John Edward] GRAY; Down (type 3)	[1848 June] 28th [end. June 1848; wmk. 1847]	ALS; 7.25 x4.5 4p., end. [June 1848]	B D25.93
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Will send [some work by Camillo] Ranzani on "Thursday (tomorrow)"; Ranzani work not much use; wants the Conchotrya and Brisnaeus (Brisneus?) [CD's query]; is working at Lithotrya; also wants [Octomeris?] to do when studying [Catophragmus?], especially if there is a specimen "adhering to its support, so that I could get out the dry animal."; apologies for this trouble; "In truth never will a mountain in labour have brought forth such a mouse as my book on the Cirripedia: it is ridiculous the time each species takes me."

75 To [Charles] LYELL; Down (type 3)	[1848 June] Wednesday [wmk. 1847]	ALS; 7.25 x4.5 3p.	B D25.L
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Printed in full, with minor changes: *Life and Letters* I, 363-64.

76 To [Henri] MILNE-EDWARDS; Down (type 3)	[1848] Sept. 1st [pmk. 2 SP 2/ 1848; wmk. 1847]	ALS; 9 3/4 x8; 3p. and add. [A Monsieur/ M. Milne Edwards/ Academie Royl. des	B D25.58
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Sciences/
Paris]

Milne-Edwards's kindness at Oxford [?B.A.A.S. meeting, June 1847] induces CD to ask favor; describes work on cirripedes, gives history of project, identifies collections at his disposal (Cuming, British Museum, etc.), describes methods used; will describe animals within shells as well as shells themselves; asks for help in obtaining loan of specimens, esp. "a single specimen of some of the species figured in the Voyage of the Astrolabe"; ¹ especially wants genus *Alepas*; wants the following: *Alepas fasciculatus* of [Rene Primevere] Lesson; *A. parasita* of [Jean Rene Constant] Quoy and [Joseph Paul] Gaimard; *A. tubulosa* do.; *Anatifa elongata* do. (especially); *A. pelagica* [*Anatife pelagien*] do.; *A. sessilis* do.; *A. tricolor* do.; *A. spinosa* do. (especially) (Pollicipes); *A. truncata* (especially) (Lithotrya); *A. sulcata*; has found "a good deal new in the Anatomy"; values Milne-Edwards's work on the Crustacea; ² presumes Milne-Edwards does not care about parasite on *Balanus*, about which CD wrote [on November 18, 1847; see above].

Other Descriptive Information

1. Jules Sébastien César Dumont D'Urville, *Voyage de la Corvette l'Astrolabe*, 15v. *Zoologie*, by Jean René Constant Quoy and Joseph Paul Gaimard, 4v. (Paris: J. Testu, 1830-1832).
2. Alcide Dessalines D'Orbigny, *Voyage dans l'Amérique Méridionale...*, 9v. Vol. 6, pt. 1: *Crustaces*, by Henri Milne-Edwards and Hippolyte Lucas (Paris: Strasbourg, 1843).

77 To J[ohn] W[illiam] LUBBOCK; no [?late 1848] ALS; 7.25 B D25.216
location (black border) ² x4.5 4p.

Thanks for permission to use schoolroom; Mr. Nash will come next Wednesday; has not received drawing; tell son that CD wants to hear about microscope, will see him for half hour [see letter to Lady Lubbock, (1847-1865) Wednesday evening/ Thursday morning, above]; ill; thanks for invitation to meet Mr. Adams and for paper on meteors. ³

Other Descriptive Information

1. See notes 2 and 3, below, for evidences for this date.
 2. CD's father died on November 13, 1848.
 3. Lubbock, "On Shooting Stars," *Lond. Edinb. Dubl. Phil. Mag.*, 32 (1848): 81-88 and 170-72, and 35 (1849), 356-57; reprinted in *Edinb. new phil. J.*, 44 (1848), 330-31.
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78 To [Charles] LYELL; The Lodge [1849 June] Friday [wmk. ALS; 8 3/4 B D25.L
Malvern (black border) 1847] x7.5 4p.

Printed, with minor changes: *Life and Letters* I, 376-77. At end of letter is: delighted that Lyell to write new editions; ¹ glad to see Lyell's remarks on extermination and "the striking instance of the tree of [John] Bartram"; ² returns home on 30th; ill, must remain idle to be fully cured by Dr. [James Manby Gully]; has bought horse for riding; will attend [B.A.A.S. meeting] at Birmingham [in September] if well; grieved to hear of Lyell family illnesses; sent copy of Darwin, *Manual of Scientific Inquiry* [Freeman 97] (1849), to Geological Society of London for Lyell; will return two of Lyell's pamphlets on same subject "sometime"; wanted to hear [Roderick Impey] Murchison on Jura-blocks; ³ regards to [Leonard and Anne Lloyd] Horner; expects large sale for Lyell, *A Second Visit to the United States...*, 2v. (London: John Murray, 1849).

Other Descriptive Information

1. *Principles of Geology*, 8th ed. (London: John Murray, 1850); and *Elements of Geology*, 3rd ed. (London: John Murray, 1851).
2. See Lyell, *A Second Visit to the United States...*, 2v. (London: John Murray, 1849), I, 351.
3. "On the Distribution of the Superficial Detritus of the Alps, as Compared with that of Northern Europe," *Q. Jl. geol. Soc. Lond.*, 6 (1850), 65-69.

79 To [Charles] LYELL; Down (type 3) [1849] July 3d. [wmk. 1848] ALS; 7.25 B D25.L
(black border) x4.5 4p.

Printed: *More Letters*, II, 225 (letter 559). At beginning of letter is: corrections to Lyell, *A Second Visit to the United States...*, 2v. (London: John Murray, 1849), as follows: v. 1, p. 349, megatherium only found as far south as 39 degrees by CD and not found at all by [Bartholomew James] Sullivan in southern Patagonia; misplaced or omitted words in second volume concerning diameter of a great equatorial telescope and in first volume concerning oxygen and anthracite; left copy of book by Lyell at Malvern with the Wedgwoods.

80 To [Charles] LYELL; Down (type 3) [1849 September 2] Sunday ALS; 8 3/4 B D25.L
(black border) [wmk. 1847] x7.25 8p.

First portion printed, with minor changes: *More Letters*, II, 122-25 (letter 483). p. 124, line 5, pluralize "volume" and change "like" to "have liked".

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Next portion printed, with minor changes and minor omissions: *Life and Letters I*, 377-78. At beginning of this portion is: regards to Lyell's wife from CD's wife; CD's wife will attend [B.A.A.S. meeting in] Birmingham; two Darwin children ill. p. 377, line 13, add: "But yet I somehow liked him better than Ld Mahon [i.e. Philip Henry Stanhope]." p. 378, line 15, change "evolving" to "evoking". At end of letter is: regards to [Charles James Fox and Frances Joanna] Bunbury; sorry to hear that Lyell's father is weak.

81 To G. RANSOME; Down (type 3) (black border) ¹	[?1849]	ALS; 7 x4.25 B D25.207 1p.
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Is happy to promote Ransome's project; put down CD on subscription list for one pound sterling for the portrait of the bishop.

Other Descriptive Information

1. Down variant address used determines endpoints of 1846 and 1855. During this period, two deaths necessitated use of black border, viz. death of CD's father on November 13, 1848, and death of CD's daughter Anne on April 23, 1851. Dimensions and width of black border on this letter match those letters from October, 1849, but not of October, 1851.

82 To [Hugh CUMING] ² ; Down (type 3) (black border)	[?1849 ca. October]	ALS; 7 x4.5 B EY83 4p.
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Has described and named all Cuming's specimens of Pedunculata; will return them at first meeting of Geological Society of London in early November [November 7]; has from Paris a *Lithotrya* from the Friendly Islands, suspects it is identical to Cuming's single specimen from the Philippines; ³ will Cuming please lend the latter again for comparison, as well as any new pedunculate cirripedes freshly acquired; must review the genera again and write out generic descriptions of the Pedunculata; will then start sessile cirripedes; "I quite dread the genus *Balanus*."

Other Descriptive Information

1. There are three reasons for choosing this date: 1) CD finished the pedunculated cirripedes and commenced the sessile in April, 1850 (see "Darwin's Journal," 12); 2) the November 7, 1849, meeting of the Geological Society of London; and 3) the black-bordered stationery, in mourning for the death of CD's father in November, 1848.
 2. This letter is bound in a letter-book amid other letters to Cuming. See also the next note.
 3. CD refers to *Lithotrya truncata*; see Darwin, *Recent Lepadidae*, 366-67ff.
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Calendar of Letters

83 To [Charles] LYELL; no location (black [1849 November?1] Thursday ALS; 8 3/4 B D25.L border) x7.5 6p., sketch

Printed, with minor changes and minor omissions: *More Letters*, II, 126-28 (letter 485). p. 126, line 9, sketch is missing. At end of letter is: will visit London on Wednesday [November 7; see previous letter, above], wants to see Lyell about Royal Medals [for the awarding of which CD voted on November 16 (*More Letters*, II, 131)].

84 To Charles LYELL; Down (black [1849 November 18] Sunday ALS; 8 3/4 B D25.L border) [end. Nov. 1849; pmk. NO x7.5 6p. and 20/ 1849] add. [Sir Charles Lyell/ Kinnordy/ Kerriemuir/ N. Britain], end. [C. Darwin Etna dikes./ Nov. 1849], sketches, and drawing

Printed, with minor changes and minor omissions: *More Letters*, II, 128-31 (letter 486). p. 131, line 21, add: hopes Mrs. H[enry (i.e. Katherine Murray Horner)] Lyell is well.

85 To [Charles] LYELL; Down. (black [1849] Dec 4th ALS; 8 3/4 B D25.L border) x7.25 4p.

Printed: *Life and Letters I*, 374-75. p. 375, line 12, after "to me.", add: "though really I think it some little reflection on him,, that he did find other & new points to observe." At end of letter is: is now reading volcanic part [of James Dwight Dana's book ¹] which is excellent and original; in last letter [above], claimed that dikes and lava streams never intersect, but now sees that they do so in Sandwich Islands [Hawaii], without cones; thinks this rare, but believes similar cases exist in Galapagos Islands, examples of which CD saw from a distance; Mt. Etna not like this; Dana believes that great Australian valleys are valleys of denudation, have been formed by "running fresh water", but CD unconvinced on latter point; Dana does not discuss craters of elevation; discusses lack of

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scoriae in Galapagos, abundance at Etna; will be in London on 19th [of December for meeting of Geological Society of London]; "My boasting has done me a deal of good."

Other Descriptive Information

1. United States Exploring Expedition, 1838-1842, *United States Exploring Expedition [Wilkes Expedition]. During the Years 1838, 1839, 1840, 1841, 1842, under the Command of Charles Wilkes, U.S.N., 19v. Vol. X: Geology*, by James Dwight Dana (Philadelphia: C. Sherman, 1849).

86 To [Isaac ANDERSON-HENRY]; Down (type 3)	[1849] Dec. 10th [end. 1849/ Decr. 10th]	ALS; 7 x4.5 3p. and end. [1849/ Decr 10th/ C. Darwin]	B D25.187
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Was just thinking of Anderson-Henry; thanks for letter; surprised that Anderson-Henry could make so many experiments on Phloxes and mimuli, given that he was also busy with his "removal"; would be grateful for results on this "most curious & interesting subject"; improved health.

87 To Albany HANCOCK; Down (type 3)	[1849] Dec. 25th [end. 25th Decr. 1849/ pmk. DE27/ 1849; wmk. 1846]	ALS; 9 3/4 x8; 6p. and add. [Albany Hancock Esqr/ St. Mary's Terrace/ Newcastle/ upon Tyne], end. [25th Decr. 1849/ C. Darwin]	B D25.30
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Printed in full, with minor changes: "Letters from C. Darwin, Esq., to A. Hancock, Esq.," *Nat. Hist. Trans. Northumb.*, 8 (1886); 256-58. p. 258, line 3, change "Astrobalanus (=Cryptophialus)" to "Arthrobalanus".

88 To [Charles] LYELL; Down (type 3)	[1849 December] Friday Even [wmk. 1846]	ALS; 9 3/4 x8; 4p.	B D25.L
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Printed, with minor changes: *More Letters*, II, 225-26 (letter 560). At beginning of letter is: overflowing dikes on both sides of volcano is an exceptional case, cause of it "appears connected with liquidity or abundance of much gaseous emissions"; Lyell should read [James Dwight Dana's] whole chapter¹ on Hawaii and the summary on vulcanism in Pacific; other volcanic chapters "have little in them"; discusses Dana's evidence for many currents proceeding from fissures; would contradict [Jean Baptiste Armand Louis Leonce] E[lie] de B[eaumont] because Mt. Etna is scoriae-producing, and there must be cones when there is much scoriae; Dana gives woodcut of denudation crater; discusses Dana's estimates of inclinations of lava-streams; Dana's book would have been more valuable if he had not "compared his results with those of others"; differences in liquidity of lava are immense; other details on Dana's volcanic writings. p. 226, line 7, missing phrase is " *far penetrating* [the] country".

Other Descriptive Information

1. In United States Exploring Expedition, 1838-1842, *United States Exploring Expedition...*, 19v. Vol. X: *Geology*, by James Dwight Dana (Philadelphia: C. Sherman, 1849).

89 To [Richard] OWEN; Down (type 3) [?late 1849-early 1850] ALS; 7.25 B D25.97
x4.5 2p.

Wishes particularly to see a valve of a cirripede in [Frederick] Dixon's collection which is shown in figure 9 of Plate XXVIII [*sic*: XXVII]; also wishes specimens in figures 3 and 4 of Plate XIV.²

Other Descriptive Information

1. CD's original request to Owen on this subject is in a letter dated September 10, [1849] (Sir Gavin de Beer, "Further Unpublished Letters of Charles Darwin," *Ann. Sci.*, 14 (1958), 102-03). CD finished working on the pedunculated cirripedes and commenced the sessile cirripedes in April, 1850 ("Darwin's Journal," 12). Owen never provided the specimens; see Darwin, *Fossil Lepadidae*, 22 and 37-38.
2. See Dixon, *The Geology and Fossils...of Sussex* (London: Longman, Brown, Green and Longmans, 1850), Plates XIV and XXVII.

90 To [Charles] LYELL; Down (type 3) [1850 January 3] Thursday ALS; 9 3/4 B D25.L
Evening [pmk.?JY 4/ 1850; x8; 4p., add.
wmk. 1846] [Sir C. Lyell/
11. Harley St/
London],end.

[Darwin/
Denudation
Draters]

Suggestions and comments on Lyell's paper on craters of denudation, read at meeting of Geological Society of London [on December 19, 1849]; ¹ paper "will be a thorn in the side of [Jean Baptiste Armand Louis Leonce] E[lie] de B[eaumon]t"; Lyell overlooks CD's case of tuff-strata at Galapagos, viz. beds form narrow streams, hollow from setting of crust, so idea of uplifted horizontal strata absurd; Lyell should state subject at issue more clearly; considers St. Jago, Mauritius, and St. Helena, but not Palma, to be craters of denudation; [James David] Forbes's paper on Italian volcanoes ² has been referred to CD.

Other Descriptive Information

1. "On Craters of Denudation,..." *Q. Jl. geol. Soc. Lond.*, 6 (1850): 207-34.
2. "On the Volcanic Formations of the Alban Hills, near Rome," *Proc. R. Soc. Edinb.*, 2 (1844-1850); 259-61.

91 To [James Scott BOWERBANK] ² ; Down (type 3)	[?1850 January 24]	ALS; 7.25 x4.5 1p. and end. [Darwin C.]	B D25.132
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Thanks for Balani, which will be of use when doing fossil sessile cirripedes; "I got youn[g] Lubbock [i.e. John William, Baron Avebury] to join your [?Palaeontographical] Society".

Other Descriptive Information

1. Lubbock joined the Palaeontographical Society in 1850. Month and day derived by Thaddeus J. Trenn from a letter at the New York Botanical Gardens. See also note 2, below.
2. Of all the persons who lent Balani to Darwin, only Bowerbank was closely connected enough to a society for CD to call it "your Society".

92 To [Charles] LYELL; Down (type 3)	[1850 March 8] Friday [wmk. 1847]	ALS; 7.25 x4.5 7p.	B D25.L
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Printed, with minor changes: *More Letters*, II, 228-29 (letter 562). At end of letter is: regards to Lyell's wife; [Christian Leopold] Von Buch implies that there are no lower Cretaceous beds in the North, but some of [Johannes Japetus Smith] Steenstrup's cirripedes are marked "Grunsand [i.e.

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Greensand]" from "[Saliberg?] [?in Scania, the southernmost district of Sweden] Quedlingburg [? in Westphalia]" and CD believes they *may be* from Greensand, "or at least lower chalk"; are there lower Cretaceous beds in Scania or Denmark?

93 To [Albany HANCOCK]; Down (type 3) [?1850] May 12th [wmk. 1846] ALS; 7.25 x4.5 4p. B D25.34

Printed in full, with minor changes: "Letters from C. Darwin, Esq., to A. Hancock, Esq.," *Nat. Hist. Trans. Northumb.*, 8 (1886): 259-60.

94 To [Charles] LYELL; Down (type 3) [1850 June 8] Saturday ALS ¹; 8 x5; B D25.L 3p.

Concerning ripples in the sea-bottom, has only seen them to depth of six to ten feet, but see Darwin, *Volcanic Islands* (1844), page 134, where deeper observations are attributed to M. Sian; ² width of ripples related to depth; thanks for Theodore Parker, [? *A Letter to the People of the United States Touching the Matter of Slavery* (Boston: J. Monroe and Ce., 1848)]; glad Lyell approved of paper; ³ "[Jean Louis Rodolphe] Agassiz has sent me his Lake Superior Book [*Lake Superior*,... (Boston: Gould, Kendall and Lincoln, 1850)],--is not that an immense Honour!"

Other Descriptive Information

1. On the back of this letter is a one-page ANS from Emma Wedgwood Darwin to Mary Elizabeth Horner Lyell concerning tickets to see the new hippopotamus in the Zoological Gardens; also mentions that Darwins leave for Malvern on Tuesday [June 11, 1850] for a week's stay; mentions Mary Lyell's sister's health.
2. M. Sian, "On the Action of Waves at Great Depths," *Edinb. new phil. J.*, 31 (1841): 245-46.
3. Probably "On British Fossil Lepadidae," *Q. Jl. geol. Soc. Lond.*, 6 (1850): 439-40. Read June 5, 1850.

95 To Lady [Maria] HOOKER; Down (type 3) [?1850] ALS; 7 3/4 x5; 3p. B D25.43

Sorry that Sir William [Jackson Hooker] is ill; thanks for note and extract; had not heard of [Brian Houghton] Hodgson's "Physicogeographical memoir" [?"On the Physical Geography of the Himalayas," *J. Asiat. Soc. Beng.*, 18 (1849): 761-88]; will send comments directly to Hodgson; delighted that "your son [Joseph Dalton Hooker] is enjoying the grand Sylhet Mountains."

Other Descriptive Information

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1. On the date of Sir William's illness, see Mea Allan, *The Hookers of Kew, 1785-1911* (London: Michael Joseph, 1967), 188. On J. D. Hooker's visit to the Sylhet Mountains in late summer, 1850, see Leonard Huxley, *Life and Letters of Sir Joseph Dalton Hooker, 2v.* (London: John Murray, 1918), I, 332.

96 To J[ames] S[cott] BOWERBANK; Down (type 3)	[?1850] Sept. 10th [pmk. SP 10/ 185	ALS; 7 3/4 x4B D25.40 3/4; 2p. and env., add. [J. S. Bowerbank Esqr/ 3. Highbury Grove/ London], [? end.] [Darwin (illegible word PTC)]
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Requests permission [of Palaeontographical Society] to have "four or five woodcuts" [see Darwin, *Fossil Lepadidae*, 9] drawn and engraved by [James de Carle] Sowerby; wants approval of plan to give species descriptions in both Latin and English, following S[earles Valentine] Wood; "how inconvenient to those who never (as I for one never do) bind their books [that the Palaeontographical Society binds its annual parts into a single volume for each year]."

97 To [John William] LUBBOCK, [Baron Avebury]; Down (type 2)	[? 1850 November or December] 10th	ALS; 7 3/4 B D25.26 x5; 1p.
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Please send reference for paper on the metamorphosis of the Pycnogons, which CD believes Lubbock mentioned earlier, as CD wants to tell C[harles] S[pence] Bate about it; is "much knocked up with Mr. [James de Carle] Sowerby."

98 To [the Ray Society]; Down (type 3)	[1850] Dec. 5th [wmk. 1850]	ALS; 8 x5; B D25.13 4p.
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Thanks for note; will confine himself [in *Recent Lepadidae*] to eight plates, with two of them colored; [George Brettingham] Sowerby [the younger] has only *drawings*, not engravings; please return "skeleton Plates, & the Drawings"; wishes to know when in 1851 will [*Recent Lepadidae*] appear, so he can schedule work on the eight plates after finishing proofs of [Darwin, *Fossil*

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Lepadidae] for Palaeontographical Society; is not "dilatatory, though my health allows me to work but for a very short time daily."

99 To [?James Scott BOWERBANK]; [1851] July 7th ALS; 7.25 B D25.175
Down (type 3) (black border)¹ x4.5 4p.

Please ask Council of Palaeontographical Society if, to save expense, the Ray Society may use the woodcut figure 1 in Darwin, *Fossil Lepadidae*, page [9], for use in Darwin, *Recent Lepadidae*, [facing page 3]; send woodcut to G. Snow [CD's agent in London].

Other Descriptive Information

1. CD's daughter, Anne Elizabeth Darwin, died on April 23, 1851.

100 To?; Down (type 3) [1851] Dec. 19th ALS; 5 x8; B D25.117
1p.

Thanks for note of 16th; Ray Society has already given CD 22 copies of Darwin, [*Recent Lepadidae*]; cannot complain; if corr. sees a copy for sale, tell CD its price.

Other Descriptive Information

1. Pasted to the back of this letter were four compliment cards, apparently unrelated to CD.

101 To G[eorge Crawford] HYNDMAN; [?1852] ALS; 7 x4.5 B D25.155
Down (type 3) (black border)¹ 1p.

Thanks for sending larvae of *Balanus*; has seen them before; thinks them fine and useful specimens.

Other Descriptive Information

1. Type of Down address variant used sets endpoints of 1846 and 1855. Black border was employed only twice on April 16 during this period, in 1849 and probably in 1852. Black border on this particular letter is too narrow for 1849, as others of the same period have a much more prominent border. In addition, CD published on *Balanidae* in 1851, which explains why he should have received an unsolicited gift of *Balanus* specimens in 1852.

102 To [?Josephus Augustinus Hubertus de [?1852-1853] June 7th ALS; 10 x8; B D25.70
BOSQUET]; Down (type 3) [wmk. 1850] 2p.

What name does Bosquet give for *Verruca* [*prisca*], a drawing of the valves of which was included with Bosquet's letter of 7 April; does outline of the plate to which adductor muscle is attached in *fixed* scutum have the "almost angular outline" depicted, or is it broken; is basal point of the free or

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movable tergum as round as Bosquet depicts, or is it worn by attrition; presumes Bosquet's volume will soon be published. ¹

Other Descriptive Information

1. See Darwin, *Fossil Balanidae*, 43-44.

103 To C[harles] LYELL; Down (type 3)	[1853] Feby. 15th [distinctive blue ink used]	ALS; 7.25 x4.25 3p. and add. [Sir C. Lyell], end. [(98) Darwin/ Dodecendrie Monogynie]	B D25.L1
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Thanks for [Jean Louis Rodolphe] Agassiz, [?*Lake Superior: Its Physical Character, Vegetation, and Animals...* (Boston: Gould, Kendall and Lincoln, 1850)], but returns it, as Agassiz already sent CD a copy; ¹ thanks for [unspecified] pamphlets of [?Andrew Leith] Adams, who "appears as heterodox [*sic*] as myself"; "I have just finished dissecting a curious cirripede [?*Alcippe lampas*], which is female & has successive cups of males attached to her: I found one with 12 males so fixed to her! These males I suspect are the most negative creatures in the world; they have no mouth, no stomach, no thorax, no limbs, no abdomen, they consist wholly of the male reproductive organs in an envelope." ²

Other Descriptive Information

1. See Elizabeth Cary Agassiz, ed., *Louis Agassiz: His Life and Correspondence*, 2v. (Boston: Houghton, Mifflin and Company, 1886), II, 469-70.

2. See Darwin, *Recent Balanidae*, 556 and 562.

104 To [the Ray Society]; Down (type 3)	[1853] March 19th. [distinctive blue ink used]	ALS; 7 3/4 x5; 7p.	B D25.209
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MS of [Darwin, *Recent Balanidae*] will not be ready when expected; thought printing could occur at any time during 1853, not by a specific deadline; "vast delay" between printing and publication of [Darwin, *Recent Lepadidas*] led CD to think that there were no real deadlines; expected to have been finished early in 1853, but work has taken "far longer" than expected, and CD has been ill; has not been idle for a single day; 20 plates and corresponding MS are ready, but CD must obtain at least six more plates at his own expense and must dissect for six more weeks; must rest a few weeks

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before going to press; will not send MS until beginning of August; asks approval for one colored and two half-colored plates to be struck by [George Brettingham] Sowerby [the younger], at only a few shillings above cost of two colored plates; asks permission for a few woodcuts.

105 To Charles LYELL; Down (type 3)	[1853] March 24th. [distinctive blue ink used; end. March 25,, 1853; pmk. MR25/ 53]	ALS; 10 x8; B D25.L 5p. (one an insert) and env., add. [Sir Charles Lyell/ 11. Harley St./ London], end. [C. Darwin/ March 25, 1853/ Dana as to volcanos/ being safety valves.]
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Printed, with minor changes and minor omissions: *More Letters*, II, 133-135 (letter 488). At end of letter is: has not received letter mentioned by Lyell; will be in London for next meeting of Geological Society of London [on April 6].

106 To [Andrew Crombie] RAMSAY; Down (type 3)	[1853] Ap. 9th. [distinctive blue ink used]	ALS; 8 x5; B D25.173 5p.
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Interested in foliation and cleavage, pleased by Ramsay's remarks on [George Douglas Campbell, eighth] Duke of Argyll's paper; ¹ before he publishes his own paper, ² which was to have been read with Campbell's paper but which CD did not stay to hear, Ramsay should read Darwin, *South America* (1846), 162-68, esp. 167, on CD's theory that foliation can be determined in some cases by planes of deposition, just as foliation sometimes might supervene on cleavage and sometimes might not; Ramsay seems to have found instances of foliation determined by planes of deposition; has "fought many battles viva voce, with Sir C[harles] Lyell...on the subject...."

Other Descriptive Information

1. "On the Granitic District of Inverary, Argyllshire," *Q. Jl. geol. Soc. Lond.*, 9 (1853), 360-66.

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2. "On the Physical Structure and Succession of Some of the Lower Palaeozoic Rocks of North Wales and Part of Shropshire. With Notes on the Fossils by J. W. Salter," *Q. Jl. geol. Soc. Lond.*, 9 (1853), 161-179. The paper was read on April 20, not April 6. Ramsay did as CD requested; see note on page 172.

107 To Charles LYELL; Down (type 3)	[1853] June 7th [end. June 1853; pmk. JU 9]	ALS; 10 x8; 3p. and add. [Sir Charles Lyell/ Commissioner to the/ Great Exhibition/ New York/ U.S.], end. [15/ C. Darwin/ June 1853/ Weald Denudation]	B D25.L
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Thanks for two pamphlets, one of them "*most useful*"; attended June 1 meeting of Geological Society of London, describes proceedings; mentions [Peter C.] Sutherland's paper on ice-action, ¹ [Joshua] Trimmer's paper; ² [Roderick Impey] Murchison forwarded catastrophic cause of flints, so CD advanced Lyell's theory of sub-glacial action; Sutherland "*most strongly*" confirmed Lyell's belief that stones on the beaches in [France and England? the arctic countries?] were angular; [William] Hopkins accepted CD's theory of straight course cut through irregular terrain by highly plastic icebergs; [Robert] Chamber's "interesting" paper on glaciation ³ reproduces [Jean Louis Rodolphe] Agassiz's idea of hemispheric ice-sheet and "treats all Icebergians with the most supercilious contempt."; missed "battle royal" at [annual election meeting] of Royal Society of London, but Murchison and [Francis] Beaufort "gained the day", and [Edward Augustus] Inglefield was elected, exceeding by one the allowed number of admissions; wife is visiting a sister; leaves on July 1 for a month at Isle of Wight, ⁴ after which CD will "go to press with my weariful cirripedes [Darwin, *Recent Balanidae*]."

Other Descriptive Information

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1. "On the Geological and Glacial Phaenomena of the Coasts of Davis' Strait and Baffin's Bay," *Q. Jl. geol. Soc. Lond.*, 9 (1853), 296-312. The portion of the letter that comments on Sutherland is printed faithfully in *Life and Letters I*, 329, next to last paragraph.
2. "On the Southern Termination of the Erratic Tertiaries,..." *Q. Jl. geol. Soc. Lond.*, 9 (1853), 282-86; and "On the Origin of the Soils which Cover the Chalk of Kent, Part 3," *ibid.*, 286-96.
3. "On the Glacial Phenomena in Scotland and Some Parts of England," *Edinb. new phil. J.*, 54 (1853), 229-82.
4. The Darwins left instead for Eastbourne, Brighton, and Hastings on July 14; see "Darwin's Journal," 13.

108 To Charles LYELL; Down (type 3)	[1854] Feb 18th. [pmk. FE19/ 1854]	ALS; 10 x8; 4p., add. [Sir Charles Lyell/ care of H. Murray Esqr/ British Consul/ Santa Cruz/ Teneriffe/ Canary Islands], end. [C. Darwin/ sent to Madeira/ steeper dip of lateral volcc. geoly. than of/ central beds]	B D25.L
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Printed in full, with minor changes: *Life and Letters I*, 390-92. p. 391, line 1, change "Searle[?]" to "Seale".¹

Other Descriptive Information

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1. See Robert F. Seale, *The Geognosy of the Island of St. Helena...* (London: Ackermann & Co., 1834). Lyell mentions this book in his *Elements of Geology*, 2nd ed., 2v. (London: John Murray, 1841), II, 227.

109 To [John Stevens] HENSLOW; Down (type 3)	[1854] Nov. 17th. [wmk. 1853]	ALS; 8 x5; B D25.127 4p.
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Printed in full, with minor changes: Nora Barlow, ed., *Darwin and Henslow: The Growth of an Idea* (London: John Murray, 1967), 172 (letter 78).

110 To Charles LYELL; Down (type 3)	[1855] Jany 10th [end. Jany 11, 1855; pmk. JA 10/ 55; wmk. 1849]	ALS; 10 x8; B D25.L 3p. and add. [Sir Charles Lyell/ 53 Harley St/ London],end. [(19) Ch. Darwin/ foliation of gneiss/ Jany 11,/ 1855.]
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Printed, with minor changes and minor omissions: *More Letters*, II, 204-05 (letter 540). At end of letter is: has found [Daniel] Sharpe's paper ["On the Structure of Mont Blanc and Its Environs," *Q. Jl. geol. Soc. Lond.*, 11 (1855); 11-26]; children are recovering; will take a house in London for four weeks.

111 To [Charles] LYELL; Down (type 3)	[1855] Jan 14th [wmk. 1949]	ALS; 10 x8; B D25.L 4p. and sketch
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Printed in full, with minor changes: *More Letters*, II, 205-07 (letter 541). Sketch printed at end of printed letter.

112 To [Charles] LYELL; 27 York Place, Baker St ¹	[1855 January 21 or 28, or February 4 or 11] Sunday [wmk. 1853]	ALS; 8 x5; B D25.L 8p., sketch
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Printed in full, with minor changes: *More Letters*, II, 207-09 (letter 542). Sketch printed in middle of page 208. p. 209, line 10, add: "(Do read this P.S.)".

Other Descriptive Information

1. The Darwins were at this address from January 18 to February 15; see "Darwin's Journal," 14.

113 To [Charles] LYELL; Down.	[1855] May 8th	ALS; 8 x5; B D25.L 4p.
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Printed in full, with minor changes: *More Letters*, II, 153-54 (letter 502).

114 To [Thomas Campbell] EYTON; Down (type 3)	[1855] Oct. 25th	ALS; 7 3/4 x4B EY83 3/4; 3p.
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Crayford is too far away for CD to know anything about "Mrs. Shaw"; glad Eyton is thinking of dogs, an "excellent continuation of your capital Pig-Skeleton researches"; ¹ impressed by Eyton museum [see *DNB*, XVIII, 107]; family details; recalls hobby of beetle collecting as a youth.

Other Descriptive Information

1. Eyton, "Some Osteological Peculiarities in Different Skeletons of the Genus *Sus*," *Proc. zool. Soc. Lond.*, 5 (1837): 23.

115 To [Charles] LYELL; Down (type 2)	[1855] Nov 4th	ALS; 8 x5; B D25.L 4p.
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Returns two pamphlets ¹ by [John] Bachman; surprised at their poor quality and at Bachman's unsubstantiated assertions, but, as [William Henry] Fitton said of [William] Whewell, "one must make allowance for him [sic] having sworn to what he believes in"; "It is most useful to see what is said on all sides" and to read "out-of-the-way pamphlets of this nature"; has living pairs of seven or eight kinds of pigeon which shall be observed and then skeletonized; has begun "to cultivate varieties of plants & make hybrids, so that I have entered on my subject in earnest"; invites Lyells to Down to see pigeons; J[ohn William] Lubbock [first Baron Avebury] sent [Joseph Dalton] Hooker's *New Zealand Flora* ² with [Thomas Vernon] Wollaston; please care for these volumes and return them sometime.

Other Descriptive Information

1. Most likely these were: *Continuation of the Review of Nott and Gliddon's Types of Mankind* (Charleston: James, Williams & Gitsinger, 1855); and *An Examination of the Characteristics of Genera and Species as Applicable to the Doctrine of the Unity of the Human Race* (Charleston:

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James, Williams & Gitsinger, 1855). See *Br. Mus. Cat.*, IX, 704; see also *Cat. scient. Pap.*, I, 145-46, and VI, 573.

2. *The Botany of the Antarctic Voyage of H.M. Discovery-Ships Erebus and Terror in the Years 1839-1843...*, Pt. II: *Flora Novae-Zelandiae*, 2v. (London: Lovell Reeve, 1853-1855).

116 To [Thomas Campbell] EYTON; [1855] Dec. 3d. ALS; 8 x5; B EY83
Down (type 2) 4p.

Thanks for useful information; is "well in[to] my subject"; has several pigeons in water, plus many alive, and means to get *domestic* pigeons from all parts of world; delighted that Eyton is at dogs, which will help both CD and "Science"; offers to Eyton the head of a Chinese dog and, if it should die, the carcass of a young, very pure bred German Spitz dog.

117 To [Thomas Campbell] EYTON; [1855] Dec 9th ALS; 8 x5; B EY83
Down (type 2) 4p.

Cannot find dog's head [see preceding letter, above]; thought Eyton had stopped skeletonizing, until Eyton told CD otherwise at [B.A.A.S.] meeting at Glasgow [in September, 1855]; "I took to the nice work [skeletonizing of pigeons], first owing to my wish to see how much the young of Pigeons & Poultry differed from the old, & I have a collection in Brine of nestling Pigeons & chickens."; will not do more than give differences in skeletons of pigeons, poultry, covey birds, and rabbits; thanks for offer to lend pigeon skeletons (including "Almond Tumbler"); will not publish "for some years"; [William] Yarrell has done much bone work, has recently showed CD "a lot of breastbones"; CD's practice of buying curious pigeon carcasses from dealers could be used by Eyton for dogs; "A Mr [William Bernhard] Tegetmeier" will publish on skulls of Fowls, ¹ recently showed CD a collection and "gave me a small series."

Other Descriptive Information

1. "On the Remarkable Peculiarities in the Skulls of the Feather-crested Variety of the Domestic Fowl, Known as the Polish," *Proc. zool. Soc. Lond.*, 24 (1856), 366-68. Read on November 25, 1856; specimens from Eyton's collection were exhibited at that meeting.

118 To [George Henry Kendrick THWAITES]; Down (type 2) 1855 Dec. 10 ALS; 8 x5; B D25.TH
6p.

Hopes Thwaites remembers CD from B.A.A.S. meeting at Oxford [1847]; for years, has collected for, and is now preparing, a work on variation of species; wants observations on "any changes in any

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introduced or feral plants or animals", esp. domesticated pigeons, poultry, ducks, and rabbits; wants all kinds alive, skeletons when dead; is trying especially to get live pigeons from all over world; wants names of pigeon fanciers in Ceylon; wants native names and any remarkable habits of pigeon breeds long kept in Ceylon or imported from anywhere except England; pay a bird skinner ten or fifteen shillings to skin (leaving bones of legs and wings) any old birds of any fancier which happen to die naturally; wants skins of poultry (except silk or black-skinned) or of domestic Ceylonese ducks, if there be any; wants any well-known fancy breed of pigeon (esp. "semi-wild Dove-House Pigeon") if it has been kept in Ceylon for many generations; there are many such in India; apologies for imposition; solicitations over health; "our mutual friend J[oseph Dalton] Hooker" is well.

119 Autographs of Members of "Philosophical Club of Royal Society"	1855 Decr. 20th [wmk. 1855]	DS; approx. B P212 13 x8; 2p.
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Signatures on one side, minutes of the meeting for this date in pencil on the other side, plus title of the document; CD has signed "Mr. Darwin"; all else is in the hands of others.

120 To [?Henry DENNY]; Down (type 2)	[ca. 1855-1861]	ALS; 7 x4.5 B D25.71 4p.
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Thanks for answer to letter of 28 January; sorry corr. could not observe lice from domestic animals from distant lands; interested in aperea, had concluded that aperea was *not* progenitor of guinea pigs; does not know what corr. means by "stock-dove"; orders would probably be issued if corr. wrote to Council of Zoological Society, but corr. would have to visit the Gardens frequently to see that orders were carried out; still, corr. would get specimens this way; [Philip Lutley] Sclater would be interested in the birds.

Other Descriptive Information

1. Type of Down address variant used was employed from 1843 to 1846 and from 1855 to 1861. CD did not know enough about pigeons in the earlier period to have written the highly technical treatment of the stock dove that is in this letter.

121 To [John Maurice] HERBERT; Down (type 2)	[?1856] Jan. 2d. [wmk. 1855]	ALS; 7 3/4 B D25.H x5; 4p.
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Thanks for book of poetry; "I shall keep to my dying day an unfading remembrance of the many pleasant hours (especially at Barmouth) ¹ which we have spent together"; is permanently ill, so cannot visit; other family details.

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Other Descriptive Information

1. See: *Life and Letters* I, 165-66; and "Darwin's Journal," 6.

122 To [John] PHILLIPS; Down (type 2)	[?1856] Jan. 18th	ALS; 8 x5;	B D25.123 no.
		8p.	3

Recommends reading of the discussion on cleavage and foliation in chapter VI of Darwin, *South America* (1846); skim page 140, but concluding remarks are on page 162; see also pages 144, 147, 157, 159, and 163, concerning confused cleavages and irregular strikes of foliation at crosses of geological series; cleavage distinct from stratification; "rocks which have been liquified by heat, sometimes have their crystallized materials so arranged, as almost to deserve to be called foliated..."; see also example in CD's description of the Falkland Islands, ¹ pages 270-71; existence of grauwacke with clay-slates is perplexing, since clay-slate is apparently formed in deep and tranquil seas; could pressure which causes cleavage and movement along cleavage planes also break up rock, mingle varieties [of rocks] together "like fragments of ice in a glacier," and subsequently re-cement these fragments together; offers copies of the three volumes of Darwin, *Geology of the Voyage of the Beagle*.²

Other Descriptive Information

1. "On the Geology of the Falkland Islands," *Q. Jl. geol. Soc. Lond.*, 2 (1846): 267-74.
2. See also John Phillips, "Report on Cleavage and Foliation in Rocks, and on the Theoretical Explanations of these Phaenomena--Part I," *Rep. Br. Ass. Advmt Sci.*, 26 (1856): pt. 1, 369-96.

123 To [Walter] ELLIOT; Down (type 2)	1856 Jan. 23.	ALS; 8 x5;	B D25.161
		4p.	

Reminds Elliot of their acquaintance at [the B.A.A.S. meeting of 1855 in] Glasgow; wants some items which they discussed then, viz. measurements of differences in proportions of tigers, and remarks on domestic Pigeons "(& Poultry?)" which are extracted from "some work in an Eastern language"; will consult Ayin Akbaree ¹ at the India House; is collecting domestic pigeons and poultry, wants Elliot to obtain a bird skinner to provide Indian skins of old, representative specimens of pigeons and poultry long bred in India, esp. tumblers and carriers; gives instructions for preparation of skins; apologies for imposition.

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1. Abu al-Fadhl ibn Mubarak, *al-Hindi, Ayeen Akbery; or, The Institutes of the Emperor Akber*, 2v., trans. from the original Persian by Francis Gladwin (London: J. Sewell, etc., 1800), esp. I, 270. See also Darwin, *Variation under Domestication* (1868), I, 205 and 205n.

124 To Mrs. [Katherine Murray Horner] LYELL; Down (type 2)	[1856] Jan 26th [pmk. JA27/ 1856; wmk. 1855]	ALS; 7 3/4 x5; 7p. and env., add. [Mrs Lyell/ 14 Queens Road/ Gloucester Gate/ Regents Park/ London.]	B D25.L1
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Printed, with minor changes and minor omissions: *More Letters*, I, 84-85 (letter 42). p. 85, line 11, illegible word is "rumour". At end of letter is: remembrances to husband, Colonel [Henry] Lyell.

125 To [George Henry Kendrick THWAITES]; Down (type 2)	1856 March 8th	ALS; 8 x5; 4p.	B D25.TH
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Hopes Thwaites will publish his "facts on variation," esp. "particulars in regard to the species from different elevations, which show different degrees of capacity for cultivation at a new level"; [Joseph Dalton] Hooker has published a similar case with Himalaya rhododendrons; ¹ regarding distribution of alpine plants, is there anything new concerning comparison between vegetation at the greater heights in Ceylon and alpine vegetation in the Himalaya, Neilgherries [i.e. Nilgiris, in southern India], or other mountains; do introduced and *recently naturalized* plants vary much in Ceylon; "The course of my work makes me more & more sceptical on the eternal immutability of species; yet the difficulties on the other theory of common descent seems to me frightfully great. In my work, which I shall not publish for 2 or 3 or perhaps more years; it is my intention to give, as far as I can & that will be very imperfectly, all the arguments & facts on *both* sides of the case, stating which side seems to me to preponderate."; wants pigeon skins from Ceylon; prefers to work carefully at varieties of a few animals than to compile brief notices on all domestic breeds; "I have now all English breeds of Pigeons alive, & am carefully observing them, making skeletons & crossing them."; wants ducks, rabbits, and poultry; Dr. [Edward Frederick] Kelaert [i.e. Kelaert] will help with poultry; apologies for imposition, "when a beggar once begins to beg he never knows when to stop!"

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Other Descriptive Information

1. "On the Climate and Vegetation of the Temperate and Cold Regions of East Nepal and the Sikkim Himalaya Mountains," *Jl R. hort. Soc.*, 7 (1852): 69-131. See also Darwin, *Origin* (1859), 140.

126 To [Charles] LYELL; Down (type 2) [1856] April 21st ALS; 6p. @ B D25.L
8 x5, 2p. @ 3
1/4 x8; 8p., 3
sketches

Lyell's case of lava beds passing into vertical columns is most perplexing, but is a "very important & extraordinary fact," and, as Lyell states, is a strong argument against "upheavement" as a cause of an angle of, say, twelve degrees, since lava columns could not have been formed at an inclination and then shifted to the vertical; lava must still have been moving downward when shrinkage produced columns; ask [William] Hopkins on this; thinks Hopkins or [Edward] Forbes has published a sketch of this phenomenon; has seen lava columns; suspects a similar process in glaciers; Lyell's Madeira expedition [in late 1853] was interesting.

127 To [Charles] LYELL; Down (type 2) [1856] May 3d. ALS; 8 x5; B D25.L
6p.

Printed, with minor changes: *Life and Letters* II, 67-68. At beginning of letter is: thanks for letter; wishes Lyell had discussed further the lava columns [see previous letter, above]; has kept list of land shells, has made corrections, and is surprised by Lyell's knowledge; will borrow [Oswald] Heer, [*?Ueber die Haus-Ameise Madeira's* (Zürich: n.p., 1852)] while Lyell is abroad; Lyell's cases of transportal "beat all that I have ever heard...& if any body had put such cases hypothetically I shd have laughed at them"; Colymbetes [water beetle] flew on board *Beagle* 45 miles from land, which surprised [Thomas Vernon] Wollaston; Wollaston and others were at Down; "Wollaston strikes me as quite a first-rate man & very nice & pleasant into the bargain. It is really striking (but almost laughable to me) to notice the change in [Joseph Dalton] Hooker's & [Thomas Henry] Huxley's opinions on species during the last few years."

128 To Dr. [Henry Ambrose] OLDFIELD; [1856] May 10th [end. Ansd. ALS; 8 x5; B D25.235
Down (type 2) May 15.56; pmk. MY11/ 4p. and env.,
1856] add. [Dr.
Oldfield/ 8
Gloucester

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Gardens/
 Gloucester
 Terrace/
 Hyde Park/
 London.--],
 end. [Ansd.
 May 15.56.]

[William Sandys Wright] Waux referred CD to Oldfield because Oldfield once remarked that dogs represented in Assyrian drawings were like the Thibetan [i.e. Tibetan] dogs familiar to Oldfield in Nepaul [i.e. Nepal]; as CD is interested in ancient history of domesticated animals, does Oldfield think this resemblance close; describes resemblances and differences suspected; wants data on other breeds of dogs, poultry, fancy pigeons, and rabbits in Nepal; is collecting pigeons from all over world.

129 To [Samuel Pickworth WOODWARD]; Down (type 2)	[1856]	ALS; 8 x5; B D25.140 2p.
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Has just finished [Woodward's] book,² has derived "much solid instruction & interest" from it; has written down some questions which he will ask in person when in London in about a fortnight.

Other Descriptive Information

1. See *Life and Letters* II, 73.
2. *A Manual of the Mollusca; or, Rudimentary Treatise of Recent and Fossil Shells* (London: J. Weale, 1851-1856). Published in three parts, in 1851, 1853, and 1856; issued thereafter as a single volume.

130 To [William Darwin] FOX; Down (type 2)	[?1856] June 4th	ALS; 8 x5; B D25.149 2p. ¹
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Thanks for "a Forking Cock, more like an ostrich than a simple fowl".

Other Descriptive Information

1. On same sheet is a two-page letter from Mrs. Fox to her husband.

131 To [Charles] LYELL; Down	[1856 June] 16th	ALS; 8 x5; B D25.L 4p.
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Printed, with minor changes and minor omissions: *Life and Letters II*, 72. At end of letter is: "When you go abroad you are to lend me [?Philip Barker] Webb. & [Oswald] Heer, & can you add [Matthew Fontaine] Maury [the elder] ocean chart; [Samuel Pickworth] Woodward had it some time ago.

132 To [Charles] LYELL; Down (type 2)	[1856] Jun 25th. [end. 25 June. 1856]	Partially ALS B D25.L and partially LS; 13 x8.25 5p. and env., end. [(119)/ C. Darwin/ 25 June. 1856/ On reasons for doubting the/ Atlantis/ & continental extension theory/ in the Recent Period.]
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Printed in full, with minor changes: *Life and Letters II*, 74-78. p. 76, line 4, questionable word is "Silla". p. 76, line 23, add "are" after "such". p. 77, line 4, change "Lowe" to "Low". p. 77, line 12, pluralize "formation".

133 To [Charles] LYELL; Down (type 2)	[1856] July 5th [end. July 5, 1856]	Partially ALS and partially LS; 13 x8.25 3p. and fragment of env., end. [C. Darwin/ July 5, 1856/ Continental Extension./ Volcanos	B D25.L
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whether
in/ areas of
elevation
or/ of
subsidence.]

First portion printed, with minor changes and minor omissions: *More Letters*, II, 135-37 (letter 489). p. 135, line 12, questionable word is "extensions". p. 136, line 31, add: local volcanic subsidence caused by shrinking of great volcanic piles is supported by frequent coincidence of volcanic tertiary streams and lakes or fresh water beds. At end of this portion is: CD's vague ideas on this subject are worthless; CD's ideas are not dogmatic.

Next portion printed, with minor changes: *Life and Letters* II, 71. At end of this portion is: shall not attempt to write a history of the subject, but did mention Lyell's *Principles* [*of Geology*..., 3v. (London: John Murray, 1830-1833)]; will want Lyell to look over what CD will write about the *Principles*.

134 To Charles LYELL; Down (type 2)	[1856] July 8th [end. July 8, 1856.]	ALS; 8 x5; B D25.L 8p. and env., add. [Sir Charles Lyell/ 53. Harley St/ London.], end. [C. Darwin/ continental extensions/ July 8. 1856.]
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Printed in full, with minor changes: *More Letters*, I, 427-28 (letter 327). Small portion also printed in *Life and Letters* II, 78.

135 To [Thomas Campbell] EYTON; Down (type 3)	[?1856] Augt 21st	ALS; 8 x5; B EY83 4p.
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Has been reading Eyton on pigs ["Some Osteological Peculiarities in Different Skeletons of the Genus *Sus*"], *Proc. zool. Soc. Lond.*, [5 (1837): 23]; are offspring of cross between African and common pigs fertile; if Eyton does not know answer, ask Lord [Rowland] Hill; were Hill's African

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2. Eyton, "Remarks on the Skeletons of the Common Tame Goose, the Chinese Goose, and the Hybrid between the Two," *Mag. nat. Hist.*, 4 (1840): 90-92.

3. See Darwin, *Origin* (1859), 358-63ff; and Peckham, *Variorum Origin*, 575-79.

138 To [Josephus Augustinus Hubertus de BOSQUET, of Maestricht]; Down (type 3)	[1856]	Portion of AL; 7 3/4 x5; 4p., and portion of ALS; 7 3/4 x5; 2p.	B D25.28
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Portion of AL is: thanks for letter; CD "astonished & delighted at your discovery of a Cretaceous chthamalus", a curious, publishable discovery; usually does not believe in *negative* evidence, but deviated with sessile cirripedes (see Darwin, *Fossil Lepadidae*, 5), and now Bosquet's discovery proves CD wrong to deviate; cautions Bosquet against "ever presuming to say when a new group first...appeared"; on structure of recent chthamalus, see Darwin, *Recent Balanidae*, 39; see also page 172 on non-existence of extinct Chthamalinae; drawings sent by Bosquet are beautiful; has been "so hard at work for two years at other subjects that cirripedes are gone rather out of my head, which could never boast of a good memory"; compliments Bosquet's ability; Lithotrya specimen must exhibit serrations, important for burrowing, on upper scales of peduncle (see Darwin, *Recent Balanidae* [sic; *Recent Lepadidae*] plate VIII, figure 3d); thus tergal margin of scutum in Bosquet's figure 1 seems too simple for Lithotrya; thinks Bosquet's figure 2 is a carina. Portion of ALS is: skins could be sent through a bookseller; wants "one of your good Carriers (old Cock bird) skinned"; wants estimate of speed at which carriers fly long distances (e.g. 200-400 miles); hopes specimens arrive safely.

Other Descriptive Information

1. See *More Letters*, I, 97 (letter 51); also, CD stopped working on cirripedes in 1854, so he would be two years into another subject, as he claimed in this letter, in 1856.

139 To [Thomas Campbell] EYTON; Down (type 2)	[1856]	ALS; 8 x5; 4p.	B EY83
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Does Eyton want a skin, with skull and limbs, of the standard type of country dog in West Africa, sent by Dr. [William Freeman] Daniell, who lives in Sierra Leone; if so, tell CD if skull has any peculiarities; after writing the "long troublesome letter" [see letter of August 31, 1856, above], CD decided to experiment on hawk pellets in Zoological Gardens; others are observing partridge feet;

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recently found eleven grains of earth on one bird; awaits word both on [Johann Batthaus] Bechstein's claim about incisors of pigs and on origin of Lord [Rowland] Hill's crossed African pig [see letters of August 21 and 31, 1856, above]; supposes Eyton discontinued cross of geese [see letter of August 31, 1856, above]; is using Eyton's papers.

Other Descriptive Information

1. CD's experiments on hawks in the Zoological Gardens were conducted in October, 1856; see *Life and Letters II*, 86.

140 To [Charles] LYELL; Down (type 2) [1856] Nov. 10th ALS; 4p. @ B D25.L
(black border) ¹ 7.25 x4.5, 1p.
@ 8 x5; 5p.

First portion printed, with minor changes: *Life and Letters II*, 85. At beginning of this portion is: is answering Lady [Mary Elizabeth Horner] Lyell's note to Emma [Wedgwood Darwin, CD's wife], since writing is an exertion for the latter; ² sorry that Mrs. [Leonard] Horner [nee Lloyd] is ill; had planned on visiting Lyell in London, but shall not do so until January, owing to wife's condition; last week [November 6], CD's aunt, [Sarah Elizabeth] Wedgwood, died at Down; supposes Lyell's Madeira paper is ready.

Second portion printed; with minor changes: *More Letters*, I, 97 (letter 51).

Other Descriptive Information

1. See *Emma Darwin*, II, 176-77, for death of Sarah Wedgwood.
2. See *ibid.*, 178, for CD's wife's confinement.

141 To Lady [Harriet Hotham] LUBBOCK; [?]1856 December 8] ALS; 8 x5; B D25.103
Down. Monday 3p.

Thanks for offer of help, but CD's wife is "going on perfectly well", and as Etty [i.e. CD's daughter Henrietta] is ill and Miss Thorley [governess] is gone, CD's sons should stay at home; "We have now half-a-dozen Boys". ¹

Other Descriptive Information

1. This is obviously a roundabout way of announcing the birth of the sixth son to CD's neighbor; December 8, 1856, was the first Monday after the sixth son's birth. See *Emma Darwin*, II, 178.

142 To [Thomas William St. Clair [1856] ALS; 8 x5; B D25.237
DAVIDSON]; Down (type 2) 4p.

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Wants facts showing that "a variable species is or is not equally variable at all times & places"; thinks [Davidson's] "profound knowledge of Brachiopoda" should provide examples of such facts; has discussed this subject with the late E[dward] Forbes and with [Samuel Pickworth] Woodward.

Other Descriptive Information

1. Date for this letter determined by Sydney Smith, St. Catharine's College, Cambridge University.

143 To [Edgar Leopold LAYARD]; Down [ca. 1856-1860] (type 2) ALS; 28 x5; B D25.129
6p.

Thanks for letter; Layard's Madagascar expedition should yield odd domestic animals; are hybrid cats fertile; ³ wants confirmation of [Martin Heinrich Carl] Lichtenstein's [sic; Lichtenstein's] assertion ⁴ that the domestic dog, similar to C[anis] mesomelas, which is kept by the natives is sometimes crossed profitably with wild species; do promiscuously-crossed mongrel dogs tend toward an ideal type; did Mr. Fry's feral pigeons from Ascension have black bars on wing and white rumps, or were they checkered like common dovecot pigeon; did Fry ever see a North African greyhound with short, curly tail, as pictured by ancients, but which CD doubts; ⁵ wants specimens of pigeons, ducks, and poultry with "very slight differences"; such differences interest CD "greatly"; doubts that a general synopsis of seafoal exists, but shall check in London.

Other Descriptive Information

1. Layard left for South Africa in 1855; CD started using the Bromley address in late 1855, and 1856 was the first June in which he did so. CD published *Variation under Domestication*, containing material received most certainly in reply to this letter, in 1868; CD stopped using the written Bromley address in about April, 1861, meaning that June, 1860, was the last June in which this address was used.
2. Accompanying this letter are two scraps, one with "Charles Darwin/ Down, Kent/ March 19th, 1873.--" in CD's hand, the other with two or three illegible words, not in CD's hand.
3. See Darwin, *Variation under Domestication* (1868), I, 44.
4. Lichtenstein, *Travels in Southern Africa...*, trans. from German by Anne Plumptre, 2v. (London: 1812-1815), II, 272. See also Darwin, *op. cit.*, I, 25.
5. See Darwin, *op. cit.*, I, 17-18, 44, 185f, and 238n.

144 To?; Down (type 2) [?ca. 1857] ALS; 8 x5; B D25.45
2p.

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Thanks for note; information corr. will obtain from [Marie Jean Pierre] Flourens will be valuable; ² has sent Darwin, *Journal of Researches* [?(1852)] through Williams and Norgate [booksellers]; work on variation will not be published for some years; "I have much to observe, & am keeping for this purpose all the varieties of Pigeons, Poultry, Ducks &c."

Other Descriptive Information

1. Date determined by Sydney Smith, St. Catharine's College, Cambridge University.
2. See, perhaps, Stauffer, ed., *CD's Nat. Selection*, 456 and 456n.

145 To [Charles] LYELL; Down (type 2)	[1857] Feb. 11 [end. Feb. 13, 1857]	[ALS; 8 x5; 7p. and fragment of env., end. [C. Darwin/ On instruction for Explo-/ring ship Novara./ Feb. 13. 1857]	B D25.L
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Printed, with minor changes: *Life and Letters* II, 93-94. p. 94, lines 3/4, change "Cocos so near" to "[Cocos Is(land) mass?]" p. 94, line 11, change "one" to "n[orth]." p. 94, line 22, pluralize "Island" and change "has" to "have". At end of letter is: "I have just had *Helix Pomatia* quite alive & hearty after 20 days under sea-water; & this same individual about six-weeks ago had a [salt-water] bath of 7 days. ¹ P.S. I have really nothing to suggest to Mr. [David] Forbes. ² I am delighted to hear about the Coal Plant & *Purbeck Fossils*.³"

Other Descriptive Information

1. See Darwin, *Origin* (1859), 397.
2. Forbes invested in a South American mining company and toured South America from 1857 to 1860 in the company's behalf looking for nickel; Lyell probably asked CD for any advice he might have had for Forbes.
3. See Lyell, *Principles of Geology*..., 2v., 11th ed. (New York: D. Appleton and Company, 1873), I, 159n.

146 To [Thomas Campbell] EYTON; Down (type 2)	[?1857] June 9th	ALS; 8 x5; 3p.	B EY83
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Read the enclosed, ¹ pages 38 to 91; "[Karl Theodor Ernst] Von Siebold is about the most careful & profound naturalist in Europe."; found in the book facts such as those requested from Innes regarding bees.

Other Descriptive Information

1. Siebold, "True Parthogenesis in the Honey-Bee," in *On a True Parthenogenesis in Moths and Bees; A Contribution to the History of Reproduction in Animals*, tr. by William S. Dallas (London: J. Van Voorst, 1857), 38-91.

150 To [George Henry Kendrick THWAITES]; Down (type 2)	[1858] Feby. 7th	ALS; 8 x5; B D25.TH 4p.
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Thanks for letter of December 28, with information on resistance of plants to Ceylonese climate and on acclimatization of plants to differing elevations; will quote Thwaites about several species having both alpine and lowland forms and about some having and some not having intermediate varieties; ¹ is it the lowland forms that have *much smaller* and more numerous flowers with longer, narrower, and less coriaceous leaves; disbelieves, as does [Joseph Dalton] Hooker, the idea that alpine forms have the character of "hariness [?i.e. hairiness]", so is glad that Thwaites does not mention this trait; "I was lately struck by a remark in U[nited] States Naturalist, namely that introduced or naturalised plants *at first* overrun the whole country, & then in some degree diminish in numbers.... I can see some likely causes of error in the...remark, & yet the fact in itself seems probable."; ² suggests the cultivation of alpine forms in the low country so as to observe "changes in successive generations."

Other Descriptive Information

1. See Darwin, *Origin* (1959), 140.
2. *Ibid.*, 64-65.

151 To [Charles] LYELL; Moor Park, Farnham/ Surrey	[1858] Ap. 26th [end. April 25th/ 1858]	ALS; 8 x5; B D25.L 4p., end. [April 25th/ 1858]
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Printed in full, with minor changes: *Life and Letters* II, 112-13.

152 To [Charles] LYELL; Down (type 2)	[1858 June] 18th	ALS; 8 x5; B D25.L 4p.
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Printed in full, with minor changes: *Life and Letters* II, 116-17.

153 To [Charles] LYELL; Down (type 2)	[1858 June 25] Friday [end. received/ 29 June 1858/ 59: wmk. 1855]	ALS; 8 x5; B D25.L 8p., end. [received/ 29 June 1858/ 59]
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Printed, with minor changes: *Life and Letters* II, 117-18. p. 117, line 5, add: "I shd. not have sent off your letter without further reflexion, for I am at present quite upset, but write now to get subject for time out of mind. But I confess it never did occur to me, as it ought, that [Alfred Russel] Wallace could have made any use of your letter." p. 117, line 12, underline "extremely" once and "now" twice. p. 117, line 21, add: "I do not in least believe that that [sic] he originated his views from anything which I wrote to him." p. 118, line 14, add: CD's baby has scarlet fever; Etty [i.e. Henrietta Emma Darwin Litchfield] is weak but recovering.

154 To [Charles] LYELL; Down.	[1858 June] 26th [wmk. 1855]	ALS; 8 x5; B D25.L 3p.
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Printed, with minor changes: *Life and Letters* II, 118-19. At end of letter is: Emma [Wedgwood Darwin] and CD thank Lady [Mary Elizabeth Horner] L[yell] for note; Etty [see previous letter, above] is weak; baby is feverish; three children in Down have died of scarlet fever.

155 To Charles LYELL; King's Head Hotel/ Sandown/ Isle of Wight (black border) ¹	[1858] July 18th [end. July 18 1858; pmk. JY 18/ 58]	ALS; 7.25 B D25.L x4.5 4p. and env., add. [Sir Charles Lyell/ 53 Harley St/ London/ W.], end. [C. Darwin/ July 18 1858/ My Etna paper & theory/ of craters of Elevatn./ C.D.'s work
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on Species at/
Linn. Socy.]

First portion printed in full, with minor changes: *More Letters*, II, 137 (letter 490).

Next portion printed in full, with minor changes: *Life and Letters* II, 129-30.

Other Descriptive Information

1. CD's son, Charles Waring Darwin, died on June 28, 1858; see "Darwin's Journal," 14.

156 To [Thomas Campbell] EYTON; [1858] Aug. 4th ALS; 7 x4.5 B EY83
Norfolk House/ Shanklin/ I. of Wight (black border) 4p.

Thanks for note and for reference; glad to hear of Eyton's two publications; thinks that on bird skeletons will be "laborious"; ¹ just before leaving Down, CD arranged skeletons of pigeons preparatory to comparison; may consult Eyton on this; is "drawing up a long abstract [later to become Darwin, *Origin* (1859)] on my notions about Species & Varieties, to be read in parts before Linnean Soc[iet]y"; abstract will be published "late in the autumn"; "My bigger Book [i.e. Darwin, *Natural Selection*] will not be out for some two or three years."

Other Descriptive Information

1. See Eyton, *A Catalogue of the Skeletons of Birds in His Possession* (London: n.p., 1858).

157 To [John] PHILLIPS; Down (type 2) [1858] Sept. 1 [wmk. 1858] ALS; 7 x4.5 B D25.123
(black border) 3p.

Has just heard that he (CD) is advertised for presidency of Zoological Section of the B.A.A.S.; must decline position for reasons of health; also, cannot attend [B.A.A.S. meeting] at Leeds [on September 22]; lost no time in informing Phillips of "this mistake".

158 To [Thomas Campbell] EYTON; [1858] Oct. 4th [wmk. 1858] ALS; 7 x4.5 B EY83
Down (type 2) (black border) 7p.

Thanks for note; sorry to miss [B.A.A.S. meeting at] Leeds [on September 22]; Eyton's skeleton collection is "splendid"; sees that Eyton is publishing on oysters; ¹ will keep Eyton's letter with list of skeletons for future reference; is done with domestic pigeon skeletons and with a monograph on their history, variation, etc., totaling four or five pages, which CD would like to send to Eyton for criticism, along with the few bones which show any diversity; must learn names of some bones from

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[Hugh] Falconer; on advice of [Charles] Lyell and [Joseph Dalton] Hooker, is preparing abstract of conclusions [Darwin, *Origin* (1859)] "to be published as small book or read before Linn[ean] Society, & this will for some months stop my regular work. The work is too great for me, but if I live I will finish it: indeed three-fourths is done."; what colors of sire and dam will throw a dun colored horse; what is color, at birth, of colt which will turn into dun; did Eyton ever see an ass with double shoulder stripes on both shoulders; Col[onel] Ham[ilton Charles] Smith has heard of such.²

Other Descriptive Information

1. Eyton, *A History of the Oyster and the Oyster Fisheries* (London: J. Van Voorst, 1858).
2. See: Darwin, *Origin* (1859), 163-67; and *idem*, *Variation under Domestication* (1868), I, 55-64.

159 To [Thomas Campbell] EYTON;	[?1858]	ALS; 7.25	B EY83
Down (type 2) (black border)		x4.5	3p.

In muddy weather, does any dirt cling to the feet of the partridge pheasant or any other birds, especially waders; has some cases of such, but supposes it is rare; case concerns distribution of plants with small seeds; cut off any dirt-clogged feet and send them to CD.

Other Descriptive Information

1. Watermark provides lower endpoint for date. Upper endpoint of 1858 assumed because this topic is discussed in Darwin, *Origin* (1859), pages 362-63ff. which CD had finished proofing before October 11, 1859 (see "Darwin's Journal," 15). Year of 1858 chosen over 1857 because of black border on stationery.

160 To James EGAN; Down (type 2)	[1858] Nov. 8th. [pmk. NO	ALS; 8 x5;	B D25.212
	9/ 58]	4p. and env.,	
		add. [M.	
		James Egan/	
		Hotel Queen	
		of England/	
		Pesth/ Austria/	
		via Belgium.]	

Has seen Egan's article in *Gardeners' Chronicle* (edited by [John] Lindley, a friend of CD), and knows that Egan is a member of an agricultural society; do Hungarian horses frequently have a dark stripe down the spine, sometimes also a stripe (sometimes double) on the shoulders (as on the ass), and sometimes cross stripes on the legs; do such stripes occur frequently on the shoulders, on the

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front or on the hind legs, or on both; what color are horses with such stripes; are stripes plainer in the foal or in full-grown horse; in England, stripes are on duns, but CD unsure of the color of the parents of these duns.

161 To J[ames] EGAN; Down (type 2)	[1858] Nov. 25th [pmk. NO25/ 58]	ALS; 8 x5; B D25.213 3p. and env., add. [Mr. J. Egan/ Hotel Queen Victoria/ Pesth/ Austria]
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Thanks for prompt inquiries and reply concerning striped horses [see previous letter, above]; would appreciate any other information, esp. regarding the foal; [John] Lindley [editor of the *Gardeners' Chronicle*] would like to hear occasionally from Egan on Hungarian horticulture and on "the climate which produces the Tokay wine & fine Hungarian tobacco."

162 To [Walter ELLIOT]; Down (type 2)	[1858] Decr. 12th	ALS; 8 x5; B D25.162 4p., end. [Charles Darwin/ Abt Kabutar namah ¹ / & marks on Horses.]
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Thanks for note of October 28, for poultry paper, and for treatise on pigeons: treatise shows some specimens sent to CD by Elliot to be nearly a century old; treatise shows difference between an Oriental and a European mind; belated thanks for the [Kasoon?] ² fowls; all CD's fowls are in hands of "a very skilful man," [William Bernhard] Tegetmeier, for description, and shall be deposited in British Museum; glad Elliot is joining Linnean Society [elected January 20, 1859]; is willing to sign Elliot's membership certificate; has Elliot seen stripes on backs, shoulders, and legs of horses and on legs of donkeys; asks for specific details about horses with stripes.

Other Descriptive Information

1. "Kabutar namah" is Hindustani for "pigeon reverence" or "pigeon salutation".

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2. "Kaseen" may be CD's spelling of the Hindustani "kashin", which means "large" or "copious". See Duncan Forbes, *A Dictionary, Hindustani and English...*, new edition (London: Wm. H. Allen & Co., 1859).

163 To [Charles] LYELL; Down (type 2)	[1859] March 28th [wmk. 1857]	ALS; 4p. and B D25.L enc. @ 8 x5, 2p. @ 6.25 x3 3/4; 6p. and 1p. enc.
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Printed in full, with minor changes; *Life and Letters II*, 151-52. Enclosure printed on page 152.
To [Charles] LYELL; Down (type 2), [1859] March 28th [wmk. 1857]

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:721\]](http://diglib.amphilsoc.org/fedora/repository/graphics:721)

164 To Ch[arles] LYELL; Down (type 2)	[1859] March 30th [end. March 30/ 1859; pmk. MR31/ 59]	ALS; 8 x5; B D25.L 4p. and env., add. [Sir Ch. Lyell/ 53 Harley St/ London/ W.], end. [C. Darwin/ March 30/ Origin/ Of Species/ 1859]
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Printed, with minor changes and minor omissions; *Life and Letters II*, 152-53. At end of letter is; Emma [Wedgwood Darwin] goes to London for two or three days on Friday [April 1] and will visit Lyells on Saturday morning.

165 To [Charles] LYELL; Down (type 2)	[1859] June 21st	ALS; 8 x5; B D25.L 4p.
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Printed in full, with minor changes; *Life and Letters* (seventh thousand revised, 1888), II, 159.

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166 To [Charles] LYELL; Down (type 2) [1859 June] ALS; 8 x5; B D25.L1
2p.

Printed in full, with minor changes: *More Letters*, I, 125 (letter 77).

Other Descriptive Information

1. This month and year were provided without explanation or justification with the printed version. The month might be a bit early in the year.

167 To [Charles] LYELL; Down (type 2) [1859] Sept. 2d. ALS; 10 x8; B D25.L
4p. (enclosure
wanting)

Printed, with minor changes: *Life and Letters* (seventh thousand revised, ¹ 1888), II, 163-65. p. 163, line 3, missing name is "Emma [Wedgwood Darwin]". At end of letter is: whole family is ill; when proofs are finished (14 or 20 days), will leave for two months of hydropathy and rest; regards to wife; "I have read some of [Joseph Dalton] Hooker's Introduction to Australian Flora, ² & he gives up species in grand style."; "I enclose P.S. of letter from [Alfred Russel] Wallace lately received."

Other Descriptive Information

1. The first portion of the letter is also omitted in the first edition.
2. *The Botany of the Antarctic Voyage of N.M. Discovery-Ships Erebus and Terror in the Years 1839-1843...*, Pt. III: *Flora Tasmaniae*, 2v. (London: Lovell Reeve, 1860), I, i-cxxviii. This "Introductory Essay" is dated "November, 4, 1859" on page cxxviii; it was reprinted separately in 1859, and portions of it appeared in some contemporary journals. In it, Hooker announced his acceptance of CD's theory of evolution by natural selection.

168 To Miss BUTLER; Down (type 2) [1859] ALS; 7 3/4 B D25.50
x5; 4p.

Hears that Butler is wandering about Scotland, so presumes she cannot go to Ilkley, but invites her anyway, since CD may not be able to take family; "It would be...terrible to go into that great place & not know a soul. But if you were there I should feel safe & home-like."; CD's book [*Origin* (1859)] is so nearly finished that he "shall be a free man at the end of this month"; thinks he will be in Ilkley for three or four weeks, followed by a week or so in Down and then a few weeks at Moor Park.

Other Descriptive Information

1. CD's only visit to Ilkley occurred in 1859; see "Darwin's Journal," 15.

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169 To [Charles] LYELL; Down (type 2) [1859] Sept 20th ALS; 7 3/4 B D25.L
x5; 8p.

Printed, with minor changes: *Life and Letters* II, 166-67. At end of letter is: ill; leaves for Ilkley on October 3 [sic; October 2], by which time CD will have finished the "last revises [of the proofs of *Origin* (1859)], index & all"; fears it is too late for the whale correction, but has written to inquire about it; ¹ "In Lecture to R[oyal] I[nstitution] [Richard] Owen showed that he believed in whale."

Other Descriptive Information

1. See Darwin, *Origin* (1859), 303-04; cf. *ibid.* (1860), 304. Apparently Lyell's claim about a whale fossil in the greensand was incorrect, so CD had it removed.

170 To [Charles] LYELL; Down (type 2) [1859] Sept. 25th ALS; 7 3/4 B D25.L
x5; 6p.

Printed, with minor changes and minor omissions: *Life and Letters* II, 168-69. p. 168, line 1, add: "The sheet with the whale-case has been printed off." p. 169, line 15, change "Chapter VIII" to "Ch. XIII". At end of letter is: leaves for Ilkley on September 29, arriving October 1; remembrances to Lyell's wife.

171 To Charles LYELL; Down (type 2) [1859] Sept. 30th [end. Sept. 1859; pmk. SE23/ 59] ALS; 7 3/4 B D25.L
x5; 7p. and
fragment of
env., add. [Sir
Charles Lyell/
Shielhill/
Kirriemuir/
Scotland],
end. [C.
Darwin/
finding out
what the
problems/
were to be
solved more/
difficult than

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solution/ Sept.
1859]

Printed in full, with minor changes: *Life and Letters II*, 169-71.

172 To [Charles] LYELL; Ilkley Wells House/ Otley, Yorkshire	[1859] Oct. 11th	ALS; 8.25 x6.5 22p.	B D25.L
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Printed, with minor changes: *Life and Letters II*, 208-15. p. 213, line 11, add: on primrose and cowslip, has whole case written out in eight to ten pages; evidence bears out CD's conclusions; had experimented on this, but illness stopped the work; suggests that [Charles James Fox] Bunbury perform experiments, gives instructions for same; "I am assured if you sow lots of Polyanthus seed (but then these ought to have been secured from cross, & if starved plants the better) & sown in poor soil, you will get sometimes primroses & [other times] cowslips." p. 214, line 30, underline twice the "per-" in "perverted".

173 To Charles LYELL; Wells Terrace/ Ilkley Otley/ Yorkshire	[1859] Oct. 20th [end. Oct. 20th 1859; pmk. OC20/ 59]	ALS; 7 3/4 x4 3/4; 8p. and env., add. [Sir Charles Lyell/ at C.J.F. Bunbury's Esqr/ Mildenhall[suf end. [C. Darwin, Oct. 20th 1859/ "Creation." & archetypal creature/ Selection sufficient./ Droughts do not annihilate/ species.]	B D25.L
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Printed in full, with minor changes: *Life and Letters II*, 173-75.

174 To [Charles] LYELL; Wells Terrace/ Ilkley, Otley/ Yorkshire	[1859] Oct. 25th	ALS; 8.25 x6.5 8p.	B D25.L
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Printed, with minor changes: *Life and Letters II*, 176-77. At beginning of letter is: gives "very hypothetical" doctrine of [Peter Simon] Pallas as it applies to domestic dogs, viz. that present races of domestic dogs were produced by domestication of wolf in one country, of fox in another, etc., and by subsequent crossing; American dogs have descended from three or four "aboriginally distinct" species, and Europeans from several others; "We believe that all canine species have descended from one parent"; unclear whether all or only some differences in present breeds originated since domestication; importance of period of gestation has been exaggerated; races of man a great difficulty; does not believe Pallas's or [Jean Louis Rodolphe] Agassiz's claim that there are several species of man; [Sepoy] mutiny in India "stopped some important enquiries" about man; "I do not attribute much effect to climate &c."; some plants migrated through tropical *lowlands* during the glacial period; is lame; hopes H[enry] Holland will not review [*Origin* (1859)] in *Q. Rev.* because Holland "is so presumptuous & knows so little."

175 To [Charles] LYELL; Wells Terrace, Ilkley Otley Y[orkshire]	[1859 October] 31st Monday	ALS; 8.25 x6.5 4p.	B D25.L
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Printed in full, with minor changes: *More Letters*, I, 127-28 (letter 80).

176 To [Charles] LYELL; Ilkley Wells./ Otley Yorkshire	[1859] Nov. 23d	ALS; 8.25 x6.5 4p.	B D25.L
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Printed in full, with minor changes: *Life and Letters* (seventh thousand revised, 1888), II, 228-30.

177 To [Thomas Campbell] EYTON; Ilkley Wells House/ Otley, Yorkshire	[1859?November] 24th	ALS; 7.25 x4.5 2p.	B EY83
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Thanks for note; CD's book [*Origin* (1859)] will "horrify & disgust" Eyton; "several high authorities" approved of CD's theories "far more... than I expected"; would like book to which Eyton refers; admires Eyton's zeal in going to Hythe to drill.

178 To [Charles] LYELL; Ilkley Wells House/ Otley Yorkshire	[1859 November] 24th [wmk. 59?]	ALS; 7.25 x4.5 4p. and 1p. enc.	B D25.L
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Printed in full, with minor changes: *Life and Letters* (seventh thousand revised, 1888), II, 233-34. The enclosure reads: "Erasmus [Darwin] says about my Book [*Origin* (1859)] `In fact the a priori reasoning is so entirely satisfactory to me, that if the facts wont fit in, why so much the worse for the facts is my feeling.!' It is printed on page 233.

179 To [Charles] LYELL; Ilkley Wells House/ Otley, Yorkshire	[1859 November] 25th	ALS; 7.25 x4.5 4p.	B D25.L
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Printed, with minor changes: *Life and Letters* (seventh thousand revised, 1888), II, 235-36. p. 235, line 3, add: has added a sentence on pheasants crossing; ¹ has discussed this fully in [Darwin, *Natural Selection*]; pheasant species mentioned by CD undoubtedly blend by crossing, but CD is unsure whether the crosses are " quite fertile" *inter se*; cannot say more on this or on mistaken instincts because MS is at Down; would tell of blunder regarding instinct of wood ant, but the story is too long.

Other Descriptive Information

1. Compare Darwin, *Origin* (1859), 253, to *ibid.* (1860), 253. Or see Peckham, *Variorum Origin*, 433; the added sentence is numbered "69.1:b".

180 To [Charles] LYELL; no location	[1859 November] 29th	AL, S by init.'B D25.L1 3.5 x8.25 2p. (enclosure wanting)	
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Printed, with minor changes: *More Letters*, I, 136-37 (letter 91). At end of letter is: "About rattle-snake I meant to have added, suppose the bead at end of tail of *Trigonocephalus* not to be moulted at each exuviation & to grow bigger with each new skin."

181 To [Charles] LYELL; Ilkley Wells H[ouse] Otley Yorkshire	[1859] Dec. 2d.	ALS; 8.25 x6.5 4p.	B D25.L
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Printed: *Life and Letters* (seventh thousand revised, 1888), II, 236-37. p. 237, line 4, add: "I see he [John Crawford] does not even give me credit for knowing anything about the wild Columbidae allied to the Rock-pigeon!" p. 237, lines 9/10, change "several notes from ----" to "second note from [John] Phillips". p. 237, line 12, add: "Can he [Phillips] be staggered & have the fear of Oxford before his eyes." p. 237, line 12, change "X. says he" to "[Thomas Henry] Huxley says Phillips". At

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end of letter is: "I wish there was any chance of [Joseph] Prestwich being shaken; but I fear he is too much of a catastrophist."

182 To [Charles] LYELL; no location [1859 December 3] Saturday ALS; 8.25 B D25.L
x6.5 2p.

First portion printed, with minor changes: *More Letters*, I, 129 (letter 81). line 3, add: "for he [Robert FitzRoy] wrote to me the other day on population of world not having increased, & in his Voyages there is the pebble theory. ¹" At end of this portion is: "What a mixture of conceit & folly, & the greatest newspaper in the world, inserts it!" Next portion printed, with minor changes: *Life and Letters* (seventh thousand revised, 1888), II, 239.

Other Descriptive Information

1. *Narrative of the Surveying Voyages of His Majesty's Ships Adventure and Beagle...*, 3v. Vol. II: *Proceedings of the Second Expedition, 1831-1836* (London: Henry Colburn, 1839).

183 To [?Jean Louis Armand de QUATREFAGES de Bréau] ¹; Down (type 2) ² [1859] Dec. 5th ALS; 7.25 B D25.42
x4.5 4p.

Thanks for letter of November 19; is "delighted that we agree" in part regarding "mutability of species"; will read [Quatrefages's] correspondence if published; C[harles] Lyell, [Joseph Dalton] Hooker, [William Benjamin] Carpenter, [Thomas Henry] Huxley, and others agree with CD's views; whole first edition [of Darwin, *Origin* (1859)], 1250 copies, was sold first day; publisher is now printing 3,000 more copies; [Anne-Louise Swanton] Belloc planned to translate *Origin* into French but found it too technical; knows [Quatrefages] is too busy to translate the book, but could he find a publisher, translator, or eminent naturalist to act as editor; will send copy of "2nd & corrected Edition" to any translator.

Other Descriptive Information

1. Correspondent is clearly French; Quatrefages is the most likely candidate, since he is known to have written an early congratulation to CD for the publication of the *Origin*. See *Life and Letters* (seventh thousand revised, 1888), II, 234.
2. CD was actually in Ilkley; see "Darwin's Journal," 15.

184 To [Charles] LYELL; Down (type 2) [1859 December 10] Saturday ALS; 8.25 B D25.L
x6.5 6p.

Printed: *Life and Letters* (seventh thousand revised, 1888), II, 239-40. At beginning of letter is: thanks for suggestions [for *Origin* (1860)]; could not include references on imperfection of geological record [chapter IX]; estimate of 100,000 years for Mississippi deposition is taken from an extract of [Laurent-Guillaume] De Kerninck [sic; de Koninck] or [Étienne-Jules-Adolphe Desmier de Saint-Simon, Vicomte] d'Archaic; will now be more assertive about estimate, since Lyell's estimate agrees; ¹ on richness of Purbeck beds, will add "for thickness of beds";² "On Friday I had interview with Sir H[enry] Holland, & found him going immense way with us (ie all Birds from one)--good, as showing how wind blows."; thinks the bigger of Lyell's interesting celts might have been used by those Eskimos who did not have iron to cut holes in ice and to kill glacial elephant and rhinoceros. p. 239, line 1, change "interviews" to "interview", and missing name is "[Richard] Owen". p. 239, line 2, add: "but please repeat nothing. Under garb of great civility, he was inclined to be most bitter & sneering against me. Yet". p. 239, line 4, add: "He was quite savage & crimson at my having put his name with defenders of immutability. When I said that was my impression & that of others, for several had remarked to me, that he would be dead against me: he then spoke of his own position in science & that of all the naturalists in London, `with your [Thomas Henry] Huxleys', with a degree of arrogance I never saw approached." p. 240, line 9, add: "in most sneering tone". p. 240, line 23, add: "Lastly I thanked him him [sic] for Bear & Whale criticism, & said I had struck it out.-- `Oh have you, well I was more struck with this than any other passage; you little know of the remarkable & essential relationship between bears & whales.'...by Jove I believe he thinks a sort of Bear was the grandpapa of Whales!...." ³ We parted with high terms of consideration; which on reflexion I am almost sorry for. He is the most astounding creature I ever encountered."

Other Descriptive Information

1. For Lyell's estimate, see Lyell, *A Second Visit to the United States of North America* (London: John Murray, 1849), II, 248ff, esp. 250 and 250n. For Archaic's estimate, see Archaic, "Sur les formations dites pélagiques, et sur la profondeur à laquelle ont dû se déposer les couches de sédiment," *Bull. Soc. géol. Fr.*, 14 (1842-1843); 517-25. For CD's passage, of. *Origin* (1859), 284, and *ibid.* (1860), 284; or see Peckham, *Variorum Origin*, 481-82, sentences 49 and 50.
2. Cf. Darwin, *Origin* (1859), 303, and *ibid.* (1860), 304; or see Peckham, *Variorum Origin*, 508, sentence 193.
3. Cf. Darwin, *Origin* (1859), 184, with *ibid.* (1860), 184; or see Peckham, *Variorum Origin*, 333, sentence 98.

185 To [William Henry SYKES]; Down (type 2)	[1859] Dec. 20th. [end. Ansd. 11/1./59]	ALS; 7 3/4 x5; 3p. and	B D25.124
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end. [C.
Darwin, the
Distinguished/
Naturalist,
Ansd.
11/1./59]

Recommends [Edward] Blyth for position as naturalist on the China Expedition.

Other Descriptive Information

1. Sykes apparently erred in his endorsement date; see letter to Lyell, December 29, 1859, below.

186 To [Charles] LYELL; Down (type 2) [1859 December] 22d ALS; 7 3/4 x4B D25.L
3/4; 4p.

Printed, with minor changes and minor omissions: *Life and Letters II*, 245-46. p. 246, line 8, add:
"What a marvellous geological Noah's ark that fossil tree in N. America was!"

187 To C[harles] LYELL; Down (type 2) [1859 December] 27th [end. AL B D25.L
Dec 27.1859; pmk. DE 27/ (incomplete);
59] 8.25 x6.5 4p.
and env., add.
[Sir C. Lyell/
53. Harley
St./ London/
(W.)], end.
[C Darwin/
references to
Clift &/ Lyell
& Darwins
journl. on/
*connexion*of
extinct &
existing/
types in S.

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America./ Dec
27.1859]

Printed, with minor changes and minor omissions: *More Letters*, I, 133-34. (letter 87). At end of letter is: "I doubt whether [Joseph Dalton] Hooker will succeed (anyhow I tried & failed) in keeping parts of Tropics hot, whilst other parts...[incomplete portion ends here]"

188 To [Charles] L[YELL]; Down.	[1859 December] 29th [wmk. 1859]	AL, S by init.; 8 x5; 4p.	B D25.L
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Encloses note about [Edward] Blyth, as requested; Lyell should write such a note; also wrote to Col. [William Henry] Sykes; ¹ suspects that [Thomas Henry] Huxley is author of article in the *Times*; ² has not read notice in *Daily News*; has received "civil note" from [Robert] Chambers, containing news of an abstract in *Chambers's Journal*; ³ surprised (and said so to [Richard] Owen) at passage in Lyell's book; has not alluded to supposed British [Trias?] Mammal; believes not that mundane glacial period destroyed "all Tropical production," but that tropical and temperate forms mingled together on the plains during that period, as do [Joseph Dalton] Hooker's Himalayan forms; could give a Mexican example; "Anything on earth I can do in giving references &c &c will be a real pleasure...."; received letter from [James Dwight] Dana, who is "quite disable in his head" from overwork and is resting in Florence. ⁴

Other Descriptive Information

1. See letter to Sykes, December 20, 1859, above.
2. Huxley's review of Darwin's *Origin* appeared in the London *Times* on December 26, 1859; see also *Life and Letters* II, 252-55.
3. [Chambers], "Charles Darwin on the Origin of Species," *Chambers's Journal*, 12 (July-December, 1859): 388-91.
4. See Daniel C. Gilman, *The Life of James Dwight Dana* (New York: Harper & Brothers, 1899), 177.

189 To [William Hallowses] MILLER; Down (type 2)	[?1859]	ALS; 8 x5; 4p.	B D25.178
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Very kind of Miller to do work completely; at present, will only publish the general result; measurements at upper thick end of comb are "most trustworthy", since bees "economise every particle of wax" and thus skimp on border cells; is glad that CD not as wrong as feared, even if

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accuracy was a result of "mere chance"; CD's original rough measurements were made in middle of comb, but recent discouraging measurements were made on border.

Other Descriptive Information

1. This letter appears to follow letters 73 to 75 in *More Letters*, I, 121-124.

190 To [Charles] L[YELL]; Down.	[1860 January] 4th	AL, S by init.; 8 x5; 2p.	B D25.L
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Printed, with minor changes and minor omissions: *Life and Letters* II, 260-61. p. 260, line 7, add: argument in review [of Darwin, *Origin* (1859)] in *Saturday Review* is confined to geology, but reviewer gives CD "some perfectly just & severe raps on Knuckles." ¹ p. 261, line 2, add: [John Gwyn] Jeffreys sent letter with "nonsense" about non-migration of sea-shells. At end of letter is: will send long letter from H[ewett] C[ottrell] Watson which CD has not read.

Other Descriptive Information

1. See "Darwin's Origin of Species," *Sat. Rev.*, 8 (1859): 775-76.

191 To C[harles] LYELL; Down (type 2)	[1860] Jan.10th [pmk. JA11/ 60]	ALS; 8.25 x6.5 5p. and env., add. [Sir C. Lyell/ 53. Harley St./ London/ (W.)], end. [C. Darwin/ Mortality of/ children./ Man originally an/ hermaphrodite. Blind <i>genus</i> of/ insect with wide range/ Man & Spencer's/ Psychology.]	B D25.L
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Printed, with minor changes and minor omissions: *Life and Letters II*, 264-66. At beginning of letter is: is answering Lyell point by point; "Parthenogenesis (p. 96) is nothing & I know not why I inserted it in list." ¹ p. 265, lines 6/7, remove parentheses around "only vaguely". p. 265, line 23, add: "I am very sorry that [John] Lindley did not write in Gardener's Chronicle."; and, after "Andrew Murray", add: "(the entomologist & dabbler in Botany)".

Other Descriptive Information

1. Cf. Darwin, *Origin* (1859), 96; and *ibid.* (1860), 96. Or see Peckham, *Variorum Origin*, 185, lines 128 and 128:b.

192 To C[harles] LYELL; Down (type 2)	[1860] Jan 14th [pmk. JA 15/ 60]	ALS; 8.25 x6.5 6p. and env., add. [Sir C. Lyell/ 53. Harley St./ London/ (W.)], end. [C. Darwin/ Domestic vars of dog &c not/ as Huxley says far eno/ to be sterile/ Cave insects common to N./ America & Europe./ Hooker on New Zealand/ not united in post- plio-/ cene times with Australia.]	B D25.L
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Printed, with minor changes: *Life and Letters* II, 266. At beginning of letter is: now that CD knows that [Joseph Dalton] Hooker is its author, has reread review in *Gardeners' Chronicle*;¹ letter from [John Gwyn] Jeffreys is not worth sending, it says nothing about migration but refers to two papers, one on Testacea;² spoke too strongly about Jeffreys's non-migration views; thinks Jeffreys "far too narrow & decided" in his opposition to [Edward] Forbes; is convinced from littoral shells at Galapagos that such shells have great power of migration; one of grandest points in Hooker's Essay³ is demonstration that New Zealand has not been even nearly continuously united with Australia in recent times. p. 266, line 14, add: "I agree with [Thomas Henry] Huxley that it is a difficulty about no ascertained varieties known to have been raised by man, being sterile together: varieties of same kind, I believe, not rarely prefer pairing together; I have fact on this head. But I think Huxley had not considered my discussion (p. 268 New Edit. [i.e. Darwin, *Origin* (1860), 268]"; sterility of varieties of *Verbascum* and of tobaccos are wonderful cases; subject of sterility is "profoundly mysterious"; has been reading Isidore [Geoffroy Saint-Hilaire's] *Life*⁴ of [his father, Étienne] Geoffroy St. Hilaire, plus the latter's *Principes*;⁵ thinks latter man was "a rather doubtful maintainer of change of species"; former man has written to CD that he [i.e. Isidore] is "a firm maintainer of such views" and has sent a publication to show this; on Cave insects, difficulty applies chiefly in case of America and Europe, over which the same *seeing* genera range; if Lyell knows of any miocene or pliocene fossil insect in North America, such fact would make Lyell's hint very valuable. p. 266, line 17, "E." is "Emma [Wedgwood Darwin]". At end of letter is: can Lyell suggest a German translator; Madame [Anne Louise Swanton] Belloc finds [Darwin, *Origin* (1859)] too difficult to translate into French, but CD has just received letter from Frenchman eager to translate.

Other Descriptive Information

1. See *Gdnrs' Chron.*, December 31, 1859. For a recent reprint of part of the review, see David L. Hull, *Darwin and His Critics: The Reception of Darwin's Theory of Evolution by the Scientific Community* (Cambridge, Mass.: Harvard Univ. Press, 1973), 81-86.
2. Jeffreys, "On the Marine Testacea of the Piedmontese Coast," *Ann. Mag. nat. Hist.*, 17 (1856): 155-88.
3. "Introductory Essay," in *The Botany of the Antarctic Voyage of H. M. Discovery-Ships Erebus and Terror in the Years 1839-1843...*, Pt. III: *Flora Tasmaniae*, 2v. (London: Lovell Reeve, 1860), I, i-cxxviii.
4. *Vie, travaux et doctrine scientifique d'E. Geoffroy Saint Hilaire* (Paris: Strasbourg, 1847).
5. *Principes de philosophie zoologique...* (Paris: Acad. des Sciences, 1830).

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193 To [Jean Louis Armand de QUATREFAGES de Bréau]; Down (type 2) 1859] [?1860] Jan. 21st [wmk. ALS; 8 x5; B D25.2 4p.

Sorry [Quatrefages] has been ill; thanks for "great Kindness"; man wishing to translate Darwin, [*Origin* (1859)] is M. [Pierre Theodore Alfred] Talandier, Professor of French at Royal Military College at Sandhurst, who writes well and is clever; if Talandier cannot find a publisher or changes his mind, CD will write to [Quatrefages]; heard that morning from N[orth] America that Darwin, [*Origin* (1859)] is "exciting considerable attention there amongst the naturalists", but [Jean Louis Rodolphe] Agassiz is "very savage at it"; has [Henri] Milne-Edwards read his copy [of Darwin, *Origin* (1859)] and what is his reaction; ¹ are [Quatrefage's] lectures on anthropology ² published?

Other Descriptive Information

1. The small portion of this letter dealing with Milne-Edwards has been printed, with minor changes, in two locations: *Life and Letters* (seventh thousand revised, 1888), II, 235; and *More Letters*, I, 136 (letter 90).
2. "Museum d'Histoire Naturelle. Anthropologie. Cours de M. de Quatrefages," *Rev. scient., Paris*, 5 (1867-1868): 366-69, 431-38, 450-55, 495-503, 510-18, 528-36, 544-50, 559-64, 579-84, 592-600, 621-31, 655-64, 685-96, 707-12, 720-28, 730-44, and 751-60.

194 To?; Down (type 2) [1860 January] 29th [end. ALS; 8 x5; B D25.114 1860/ Jan 30; wmk. 1859] 2p., end. [1860/ C. Darwin Esqre/ Jan 30]

Thanks for assistance; encloses bank draft; wants "Agassiz Index Generum--it is a one volume Book & distinct from the Nomenclator"; ¹ [Jean Louis Armand de] Quatrefage[s de Bréau] is sending a book to CD via corr.; please send volumes to 57 Queen Anne Street, Cavendish Square.

Other Descriptive Information

1. Apparently a reference to Agassiz, *Nomenclatoris Zoologici Index Universalis...* (Soloduri: Jent et Gassman, 1848). This was a one-volume supplementary fascicle to Agassiz's *Nomenclator Zoologicus...*

195 To [Philip Lutley SCLATER]; Down (type 2) [1860] Feb. 4th [end. Feb. ALS; 8 x5; B D25.S 1860; wmk. 1859] 3p. and end. [5214/ C.

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Darwin/
Feb. 1860/
Abt Birds]
(enclosure
wanting)

Thanks for list of Galapagos birds; if not too late, will include it in Darwin, *Journal of Researches*,¹ and will correct Darwin, *Origin*;² the wren is *Sylvicola aureola*, figured in [Darwin], *Zoology of the Voyage of the Beagle*;³ have assumed it is confined to the archipelago; is surprised that *Zenaida* [*galapagoensis*] probably occurs on mainland; reiterates need for examples of variation of "abnormal parts" of birds, encloses list of examples of same.

Other Descriptive Information

1. See Darwin, *Journal of Researches* (1860), vii and 378-81.
2. Cf. Darwin, *Origin* (1860), 391, and *ibid.* (1861), 422. Or see Peckham, *Variorum Origin*, 620, lines 61 through 61:c.
3. Darwin, *Zoology of the Voyage of the Beagle* ([1838]-1843), Pt. III: *Birds*, by John Gould (1838-1841), 86 and Plate XXVIII.

196 To [Charles] LYELL; Down (type 2) [1860 February] 12th [wmk. ALS; 8 x5; B D25.L
1859] 4p.

Printed, with minor changes: *Life and Letters* II, 280. At beginning of letter is: sends letters from [Heinrich Georg] Bronn, from Asa Gray, and from [Charles James Fox] Bunbury; ¹ has told Bunbury that undulatory theory of light is not a "vera causa"; on glacial distribution, Gray, in his letter, put CD's name before that of [Edward] Forbes, but Forbes deserves priority because he published first, even if CD had written out the notion earlier; will send first part of Gray's "excellent Review"² and notice by Bronn; ³ has just heard that, and is pleased that, Bronn will superintend the German translation of Darwin, *Origin* (1859); leave letters at home of Erasmus [Alvey Darwin]; will be in London "in fortnight". p. 280, line 2, add: "he hardly gave idea of my notions".

Other Descriptive Information

1. See *Life and Letters* II, 268-73 and 276-80.
2. "Review of Darwin's Theory on the Origin of Species by Means of Natural Selection," *Am. J. Sci. (Silliman's J.)*, 29 (1860): 153-84.

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3. *Neues Jb. Niner. Geol. Palaont.*, 1860; 112-16; for a recent English translation, see David L. Hull, *Darwin and His Critics: The Reception of Darwin's Theory of Evolution by the Scientific Community* (Cambridge, Mass.: Harvard Univ. Press, 1973), 118-25.

197 To [Philip Lutley SCLATER]; Down (type 2)	[1860] Feb. 14th [end. Feb. 1860; wmk. 1859]	ALS; 8 x4 3/4; 2p. and end. [5208/ C. Darwin/ Feb. 1860/ About Birds]	B D25.S
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Thanks for valuable information [see letter to Sclater dated February 4, 1860, above]; asked G[eorge] R[obert] Gray about *Otus [galapagoensis]* and *Zenaida [galapagoensis]*;¹ do *Strix punctatissima* or *Pyrocephalus nanus* [on the Galapagos] differ in any degree whatever in size and duskiness from same species on mainland?²

Other Descriptive Information

1. Darwin, *Zoology of the Voyage of the Beagle* ([1838]-1843), Pt. III: *Birds*, by John Gould (1838-1841), 32-33, 115-16, and Plates III and XLVI.
2. *Ibid.*, 34-35, 45-46, and Plates IV and VII.

198 To [Charles] LYELL; Down (type 2)	[1860 February] 15th [and] 16th	AL (incomplete); 8.25 x6.5 (enclosures smaller); 4p. and 2p. enc. and 1p. enc.	B D25.L
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Printed, with minor changes: *Life and Letters* II, 284-86. At beginning of letter is: thanks for news; [?Auguste] Bravard's discoveries are magnificent, especially fact of "Palaeotherium Paranense" taken with "Nebraska Palaeotherium"; Bravard has sent two Spanish pamphlets with "strange geological doctrine, of whole enormous Pampean deposit being a *subaerial* deposit"; Bravard disputes unconvincingly the coembedment of Bahia Blanca fossils and recent shells; whole skeletons, including kneecap, cannot wash from one formation to another. p. 285, line 11, add: "The expression 'coincidence' in time & space between new & old species is unfortunate, as he believes, as we do,

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that new species are very *slowly* formed." p. 285, line 14, add: believes aberrant Anoa, or so-called antelope, is really small buffalo; work out interesting fact of Loess Man belonging to peculiar group of men; remember that fossil monkey was very manlike in middle Tertiary; will send Asa Gray's review when received from [Joseph Dalton] Hooker. ¹ p. 285, line 23, incomplete letter in possession of APS ends at "I wish". First enc. reads as follows: "Many thanks for [Charles James Fox] Bunbury letter received this morning & for your note. I doubt whether I use term Natural Selection more as a Person, than writers use Attraction of Gravity as governing the movement of Planets &c but I suppose I could have avoided the ambiguity. 16th". Second enc. is: hopes Lyell discovers for what the *great* celts were used, since this bears on civilisation of old natives; [John Stevens] Henslow will visit celt beds in France during spring.

Other Descriptive Information

1. See letter to Lyell dated February 12, 1860, above.

199 To C[harles] LYELL; Down (type 2)	[1860 February] 18th [and 19th; end. Feby 20./ 1860; pmk. FE20/60; wmk. 1859]	ALS; 8 x5; 10p. and fragment of env., add. [Sir C. Lyell/ 53. Harley St./ London/ (W.)], end. [C. Darwin/ Asa Gray's/ review of-/ Harveys Monstrosity/ in Bigonia/ Bronn/ Feby 20./ 1860]	B D25.L
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Printed in full, with minor changes: *More Letters*, I, 140-43 (letter 95). p. 142, line 19, change "polypus" to "polyps". p. 142, line 28, change "a future" to "any future". p. 143, line 13, change "at most" to "almost".

Small portion also printed in *Life and Letters* II, 275.

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200 To [Charles] LYELL; Down (type 2) [1860] Feb. 23d ALS; 8.5 x6.5 B D25.L
6p.

Printed, with minor changes: *Life and Letters* II, 289-91. p. 289, line 10, add: [Joseph Dalton] Hooker will answer [William Henry] Harvey's notice [in *Gardeners' Chronicle*] if [John] Lindley [the editor] will permit; ¹ Lyell can see this answer when at Down [March 9-13]; on issue of abrupt changes, case of *Aspicarpa*, like that of the differences between outer and inner florets of compositous and umbelliferous plants, is important case of modification of very important characters by correlation of growth, but it is not a case of abrupt origin of new forms; has tried to find cases of the latter but found only one "apparent case" in the *Campanulaceae*; concerning animals, besides case of monstrous goldfish, ² has case of monstrous eels examined by [Jean Louis Rodolphe] Agassiz, but is unsure of this case; "On the whole I still feel excessively doubtful whether such abrupt changes have more than very rarely taken place." p. 290, line 12, add: does not understand [Heinrich Georg] Bronn's quote about Lyell; has read of infusorial experiments in Paris rejected as inaccurate by [Jean Louis Armand de] Quatrefage[s de Bréau]; similar old experiments were performed more carefully in Germany, with negative results.

Other Descriptive Information

1. See: *Life and Letters* II, 274-76; and *Gdnrs' Chron.*, February 18, 1860.
2. See *More Letters*, I, 141 (letter 95).

201 To [Charles] LYELL; Down (type 2) [1860] Feb. 25th [wmk. ALS; 8 x5; B D25.L
1859] 4p.

Printed, with minor changes: *Life and Letters* II, 291. At beginning of letter is: glad to hear about [Richard] Owen; expects "many & bitter sneers" from Owen; glad Lyell used the same safe and true argument as [Herbert] Spencer's to the Bishop [?Samuel Wilberforce]. At end of letter is: sends portion of letter from [Heinrich Georg] Bronn which shows that Bronn is thinking more about [Darwin, *Origin* (1859)]; Bronn will translate it himself; has had letter from Sir W[illiam] Jardine, who opposes CD, but attack on CD's ornithological accuracy by Jardine is worthless; Jardine says Andrew Murray has read paper against CD; ¹ does not know if degraded *Aspicarpa* flowers make fruit, but some other degraded flowers are abnormally fertile; agrees with criticisms of H. Spencer; has read Spencer's essay on population in which Spencer "publishes such dreadful hypothetical rubbish on the nature of reproduction." ²

Other Descriptive Information

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1. "On Mr. Darwin's Theory of the Origin of Species," *Proc. R. Soc. Edinb.*, 4 (1857-1862): 274-91.
2. "A Theory of Population, Deduced from the General Law of Animal Fertility," *Westminster Review*, 57 (January-April, 1852): 468-501.

202 To [Joseph LEIDY]; Down (type 2) [1860] March 4th. Typed copy B D25.1
of ALS; ¹11
x8.5 2p.

Thanks for note of December 10 and valuable bundle of Leidy's publications; Leidy's palaeontology is highly regarded; Leidy's support is especially valuable because most palaeontologists "despise my work"; all older geologists except [Charles] Lyell are even more vehemently opposed; several younger geologists, however, support CD, especially on imperfection of geological record; is delighted that Leidy has evidence to support CD because, although CD himself will continue to work on the subject of evolution, "the sole way of getting my views partially accepted will be by sound workers showing that they partially accept them. I say partially, for I have never for a moment doubted, that though I cannot see my errors, that much in my Book [*Origin* (1859)] will be proved erroneous."

Other Descriptive Information

1. Original of this letter is at the Academy of Natural Sciences of Philadelphia, Philadelphia, Pennsylvania.

203 To [Charles] LYELL; Down. [1860 March] 12th [wmk. ALS; 8 x5; B D25.L
1859] 4p.

Printed in full, with minor changes: *Life and Letters* II, 295.

Other Descriptive Information

1. This letter might be dated incorrectly by CD, since Lyell's species notebooks show him visiting CD until March 13, and this latter date seems like a more natural one for this letter. See Leonard G. Wilson, ed., *Sir Charles Lyell's Scientific Journals on the Species Question* (New Haven: Yale Univ. Press, 1970), 363 and 398. For further discussion of Greeks, see *ibid.*, 364-65.

204 To [Charles] L[YELL]; no location [1860 late March-early AL, S by B D25.L
April] init.; 4.5 x7;
2p. (enclosure
wanting)

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Lyell is kind; hopes enc. will do; did not mention personal qualifications, of which CD is ignorant; could not allude to "precedent under [Robert John Eden,] L[or]d Aukland" because CD knows nothing about such precedent, not even whether there was a naturalist [?on the expedition]; will write to [Edward] Blyth in afternoon.

Next portion printed in full, with minor changes: *Life and Letters II*, 297-98.

Other Descriptive Information

1. This letter must have been written after the publication of Sedgwick's review of Darwin, *Origin* (1859), which appeared in the *Spectator* on March 24, 1860, and it must have been written before the letter to Asa Gray dated April 3, [1860], printed in *Life and Letters II*, 296-97, because this letter claims that CD and Lyell agree that Sedgwick is the *Spectator's* reviewer.

205 To [Albert] WAY; Down (type 2) [?1860] ALS; 8 x5; B D25.125
4p.

Wants to know history of strongly marked domestic breeds of animals; thinks archaeologists may know when dray horses were first recorded; does Way know any archaeologists who can help on this point; should CD ask for help in Notes and Queries, "though that is a periodical I have no means of seeing"; "Eheu Eheu, the old Crux Major days are long past." ²

Other Descriptive Information

1. The combination of type of Down address variant used on this letter with a watermark of 1859 occurred, apparently, only between late 1859 and mid-1860.
2. See Barlow, ed., *Autobiography*, 62-63. *Panagaeus crux-major*, a species of beetle, was collected by CD and Way while they were classmates at Cambridge.

206 To [Charles] LYELL; Down (type 2) [1860] Apr. 10th [wmk. ALS; 8 x5; B D25.L
1859] 8p.

Printed, with minor changes: *Life and Letters II*, 300-01. p. 300, line 5, add: "I have got [the first number of the short-lived journal called] `The Future' [published April, 1860], but cannot clearly make head or tail of it." p. 300, line 28, missing name is [Richard] Owen. p. 301, line 8, add: "makes me say that the dorsal vertebrae of pigeons vary & refers to page where the word dorsal does not appear. Sneers at my saying a certain organ is the branchiae of Balanidae; whilst in his own `Invertebrata' ¹ published before I published on cirripedes, he calls them organs without doubt branchiae." p. 301, line 10, missing name is Owen. At end of letter is: "How hard it is to please everyone. I told [Joseph Beete] Jukes that I sh[oul]d leave out in any next Edition [of Darwin,

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Origin] about the Weald,² & he demurred greatly & said 'he almost fancied he had written [it] himself,' as he bravely told [Roderick Impey] Murchison."

Other Descriptive Information

1. Richard Owen, *Lectures on the Comparative Anatomy and Physiology of the Invertebrate Animals...* (London: Longmans, Brown, Green, and Longmans, 1843), 158.
2. Cf. Darwin, *Origin* (1860), 285ff, and *ibid.* (1861), 308; or see Peckham, *Variorum Origin*, 483-85, lines 57-71.

207 To [Heinrich Georg BRONN]; Down [1860] ALS; 7 3/4 x4B D25.75
(type 2) 3/4; 1p.

Thanks for [Bronn's] "Untersuchungen uber [*sic*] die Entwicklung" and two copies of "Morphologische Studien," just received; will send extra copy of latter to "some good man"; thanks also for portrait.

Other Descriptive Information

1. Date and correspondent are obvious from the contents, as the following indicates: Bronn's books are *Untersuchungen über die Entwicklungs-Gesetze der organischen Welt...* (Stuttgart: E. Schweizerbart'sche Verlagshandlung und Druckerei, 1858) and *Morphologische Studien über die Gestaltungs-Gesetze der Naturkörper überhaupt...* (Leipzig and Heidelberg: C. F. Winter'sche Verlagshandlung, 1858). CD offered the extra copy of the latter book to Thomas Henry Huxley; see *More Letters*, II, 232 (letter 566).

208 To [Charles] LYELL; Down (type 2) [1860] Ap. 15th [wmk. ALS; 8 x5; B D25.L
1859] 6p.

Printed in full, with minor changes: *Life and Letters* II, 303-04. p. 303, line 4, after "noticing", add: "[Richard] Owen's".

209 To [Charles] LYELL; Down (type 2) [1860] Ap. 27th/ 28th [wmk. ALS; 8 x5; B D25.L
1859] 8p.

Printed, with minor changes: *More Letters*, II, 30 (letter 403). At beginning of letter is: thanks for [John Strong] Newberry;¹ "the non-comittal [*sic*] men do not always most help a science"; sent "clever review" by [Antoine Auguste] Laugel² & address of President of Tyneside Naturalists;³ regarding dogs, although the case is doubtful, CD favors multiple origins, but prefers not to

nommit himself until he can weigh all evidence; given the volume of discussion since [Peter Simon] Pallas, "I do not at all believe that [Richard] Owen did not know *perfectly* well some of the wild Canidae to which I alluded"; dogs of the world mingle the bloods of the European wolf, two distinct North American wolves, probably the Guyana dog or wolf, and probably (according to Pallas and Isidore Geoffroy St. Hilaire) several wild races of jackal; will compile facts in present volume,⁴ but not in *Origin*; [John William] Dawson's remark on variability of Canidae will be hard to prove;⁵ has received Lyell's budgets; thanks for drawings, sent on to Paris; supposes that [William Benjamin] Carpenter calls Vertebrata a class and birds an order, but this is unusual, and estimating the value of groups is "hopelessly difficult"; case of spitz dog is from [Johann Matthäus] Bechstein, [*Gemeinützige Naturgeschichte Deutschlands nach allen drei Reichen*, 2nd ed., 4v. (Leipzig: Bey S. L. Crusius, 1801-1809), I, 638]; case of sheep and goat in Chile is "nearest case [ever] of reversion to one pure parent by repeated crosses"; such reversion is easy, and the number of generations needed to do it with various plants has been set by [Karl Friedrich von] Gärtner and perhaps [Joseph Gottlieb] Kölreuter; such reversion has been effected with *Phasianus colchicus* and *P. versicolor*; but Lyell refers to reversion only when hybrids are bred *inter se*, so Lyell's case seems "very wonderful & improbable"; is interested in Lyell's closing remarks.

Other Descriptive Information

1. Probably "Notes on the Ancient Vegetation of North America," *Am. J. Sci.* (*Silliman's J.*), 29 (1860): 208-18.
2. See *Revue des Deux Mondes*, April 1, 1860.
3. Probably in *Transactions of the Tyneside Naturalists' Field Club*, 4 (1858-1860).
4. Darwin, *Variation under Domestication*, 2v. (1868), esp. chap. 1.
5. Dawson, *Archaia* (Montreal: B. Dawson & Son, 1860). Lyell was reading this book at the time; see *Life of Lyell*, II, 332.

210 To [Charles] LYELL; Down (type 2) [1860] May 4th [wmk. 1859] ALS; 8 x5; B D25.L

6p.

Printed, with minor changes: *Life and Letters* II, 261-62. At beginning of letter is: has been promised, and will send, an arrowhead found in peat by Col. Erskine in Aberdeenshire, which was found with many others in one place "where there were stones pitted for the manufacture"; similarly, John [William] Lubbock [Baron Avebury] says flints in France are found in such vast numbers in peat that M. [Jacques] Boucher [de Crèvecoeur] de Perthes said Lubbock might take as many as he liked; these facts remove great difficulty in case of gravel-bed celts, viz. their large numbers; hopes Lyell

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will return to France; it took sketch by Lubbock to make positions of celts clear to CD; case deserves months of work; will keep [John Strong] Newberry's interesting paper [see preceding letter, above]; pleased at how strongly Newberry asserted existence of American continent since Palaeozoic times; suspects CD's "crude notion" of cause for our ignorance of pre-Palaeozoic deposits will be shown to be true. p. 261, line 8, add: look at *Spirifers* arranged by [John William] Salter.²

Other Descriptive Information

1. Printed version is incorrectly dated January 4, 1860.
2. See *Life and Letters* II, 366-67.

211 To [Charles] LYELL; Down (type 2) [1860 May] 8th [wmk. 1859] ALS; 8 x5; B D25.L
6p.

Printed, with minor changes: *Life and Letters* II, 306-07. At beginning of letter is: Lyell's letter contained "much news"; did not know that, despite efforts of [Roderick Impey] Murchison, the Cambrian, or [Joachim] Barrande's primordial, has been separated from the Lower Silurian; sorry that CD shall not be in London [?to attend meeting of Geological Society of London] on 16th because CD wanted to hear papers; ¹ has written to [John William] Lubbock, [Baron Avebury], about meeting; will stay at home because daughter Etty [Henrietta Emma Darwin Litchfield] has remittent fever [malaria]. p. 306, line 6, add: concerning aster, remembers paper by Asa Gray and another that gives cases of two forms specifically distinct but "perfectly united by intermediate varieties or links." p. 307, line 5, add: "I do not suppose that this is much of honour; but".

Other Descriptive Information

1. G. P. Wall, "On the Geology of a Part of Venezuela and of Trinidad," *Q. Jl geol. Soc. Lond.*, 16 (1860): 460-70; and E. Lartet, "On the Coexistence of Man with Certain Extinct Quadrupeds....," *ibid.*, 471-79.

212 To [Charles] LYELL; Down (type 2) [1860] May 18th [wmk. ALS; 7 3/4 B D25.L
1860] x5; 8p.

Printed: *Life and Letters* II, 308-09. p. 308, line 7, add: Thanks for letter of 15th; new facts about man are interesting; [Thomas Taylor] Lewis takes account of rabbit and hare from Isidore Geoffrey Saint-Hilaire, but CD did not see original account; would like to ascertain origin of original hybrids because there is an old variety called "Hare-rabbit"; gives similar case of "pheasant-fowl" hybrids that were really varieties; wants to see [Hermann] Schaafhausen's pamphlet on natural selection;¹

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has ordered "Canadian Mag." ² p. 309, line 5, add: ill health and interruptions slow CD's progress; "I can very plainly see, as I lately told [Joseph Dalton] Hooker, that my Book [*Origin* (1859)] would have been & [would] be a mere flash in the pan, were it not for you, Hooker & a few others." At end of letter is: daughter Etty [Henrietta Emma Darwin Litchfield] is slightly better, has been ill three weeks; has read [?review of Darwin, *Origin* (1859)] by [Dominique Alexandre] Godron and found it commonplace, in contrast to "capital paper on Means of Distribution"; ³ has received eight-page poem, in unknown hand, "quizzing & lauding" CD and his [*Origin*]; in case CD had not mentioned before, some time ago a Manchester newspaper published a "very good & long quiz...showing that I had proved that 'might was right' was the universal law of nature." ⁴

Other Descriptive Information

1. "Über Beständigkeit und Umwandlung der Arten," *Verh. naturh. Ver. preuss. Rheinl.*, 10 (1853): 420-51.
2. This refers, perhaps, to John William Dawson, "Review of 'Darwin on the Origin of Species by Means of Natural Selection,'" *Can. Naturalist*, 5 (1860): 100-20.
3. "Considérations sur les migrations des végétaux et spécialement de ceux qui, étrangers au sol de la France, y ont été introduits accidentellement," *Mém. Acad. Stanislas*, 1853; 329-67.
4. See *Life and Letters* II, 262.

213 To [Charles] LYELL; Down (type 2)	[1860] May 22d [wmk. 1860]	ALS; 7 3/4 x5; 4p. (enclosure wanting)	B D25.L
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Printed, with minor changes: *More Letters*, I, 151 (letter 102). At beginning of Letter is: encloses letter from A[sa] Gray "received this morning"; Appletons [American publishers of Darwin, *Origin*] are gentlemen [for paying a royalty to CD], but payment for edition of 2,500 copies was not large; ¹ sends Isidore G[oeffroy Saint-]H[ilaire] on hare-rabbit, page 222; ² glad to know author of reportedly "savage" [review in] *North British Review*, not yet read by CD; ³ [CD's son] William at Norgate says medical review referred to by Asa Gray is [William Benjamin] Carpenter's; ⁴ sorry to trouble CD with [Adam] Sedgwick in Cambridge paper. ⁵ At end of letter is: Etty [Henrietta Emma Darwin Litchfield, CD's daughter] is the same, has been ill over three weeks; "What a fact about the Coral Land Shells!!!"

Other Descriptive Information

1. See: Historical Records Survey, Division of Professional and Service Projects, Works Projects Administration, *Calendar of the Letters of Charles Robert Darwin to Asa Gray* (Boston: Historical Records Survey, 1939; reprinted Wilmington, Delaware: Scholarly Resources, Inc., 1973), 25; and "Darwin's Journal," 15.
2. *Histoire Naturelle Générale des Règnes Organiques...*, 3v. (Paris: Victor Masson et Fils, 1854-1862), III, 222. This is probably the correct reference, even though the date of publication of volume 3 is too late (i.e. 1862); perhaps CD had a proof page.
3. [John Duns], " *On the Origin of Species...* By Charles Darwin..." *N. Br. Rev.*, 32 [American ed., 27] (May, 1860): 245-63. For identity of the anonymous author, see *Life and Letters* II, 311.
4. "The Theory of Development in Nature," *Br. for. med.-chir. Rev.*, 25 (1860): 367-404.
5. "Professor Sedgwick on Darwin's Theory," *Cambridge Chronicle and University Journal, Isle of Ely Herald, and Huntingdonshire Gazette*, May 19, 1860, pp. 3-4. See also: *More Letters*, I, 149n; and *Darwin and Henslow*, 203-07 (letters 111-114).

214 To [Charles] LYELL; Down (type 2) [1860 June] 1st Friday night ALS; 7 3/4 B D25.L
[wmk. 1860] x5; 6p.

Printed, with minor changes: *Life and Letters* II, 314-16. At beginning of letter is: has sent for H[enry] Holland to aid local doctor in treatment of Etty [Henrietta Emma Darwin Litchfield, CD's daughter], whose fever is nearly five weeks old; has sent A[ndrew] Murray's reviews, containing "weak" speculations; ¹ has not misrepresented [Jörgen Christian] Schiödte. ² p. 315, line 5, change "...I have" to "I have ordered the Future, ³ & have". At end of letter is: sends Asa Gray's letter, despite its insignificance; never attended to gestation of dogs because domestic gestation periods are so variable, but has now begun inquiries; greyhound stud observed for CD had yielded periods of 60 or 61 to 65 or 66 days; lowness of rodents does not decrease fertility of hybrids, since even algae are subject to same laws as higher animals.

Other Descriptive Information

1. Francis Darwin claims that there were two Murray reviews in the same place (*Life and Letters* II, 261n). I could find only one, as follows: *Proc. R. Soc. Edinb.*, 4 (1857-1862): 274-91.
 2. See Darwin, *Origin* (1859), 138.
 3. See *Future: A Journal of Philosophical Research and Criticism*, 1 (1860).
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215 To [Charles] LYELL; Down (type 2) [1860] June 6 [wmk. 1860] ALS; 7 3/4 B D25.L
x5; 8p.

Printed, with minor changes: *Life and Letters* II, 317-19. At beginning of letter is: Etty [Henrietta Emma Darwin Litchfield, CD's daughter] is still ill; H[enry] Holland saw her on Sunday [June 3] and predicted long recovery; [Samuel] Haughton's review in "Dublin Mag. of Nat. Hist." ¹ is "more coarsely contemptuous" than that of [John] Dunns [sic: Duns] in *N. Br. Rev.* [see CD to Lyell, May 22, 1860, above]; Haughton's "ignoring in his remarks on Bees' cells the almost exactly intermediate comb of *Melipona*" is unfair. p. 317, line 1, missing name is "[Haughton]". p. 317, line 18, add: "or Quinarianism." p. 318, line 18, add: "& likewise (*if you can spare*) [Edward William] Binney on Coal ² & [Herman] Schaafhausen or some such name on Natural Selection [see CD to Lyell, May 18, 1860, above]." p. 318, bottom line, add: in Darwin, *Origin* [(1859), 137], attributed blindness of cave animals *exclusively* to disuse, not selections of chance varieties, but was hasty about insects, overlooking bearing of fact that blind genus *Adelops* lives under moss *out* of caves; possibly also genus *Anophthalmus* (a "Carabidous" beetle) was blind and "extra-cavernal"; "It seems not unlikely that a blind insect would be less inconvenienced in dark cave than other insects, & would become tenant"; several passages in review by [Andrew] Murray [see previous letter, above] were unclear. p. 319, line 4, add: "[Dominique Alexandre] Godron puts well [see CD to Lyell, May 18, 1860, above] the little effect of *climate*, which...becomes stronger...on my mind. I do not say confidently food."

Other Descriptive Information

1. "On the Form of the Cells Made by Various Wasps, and by the Honey Bee; With an Appendix on the Origin of Species," *Proc. nat. Hist. Soc. Dubl.*, 3 (1859-1862); 128-40.
2. "Sketch of the Drift Deposits of Manchester and Its Neighbourhood," *Mem. Manchr. lit. phil. Soc.*, 8 (1848): 195-234. See also: Leonard G. Wilson, ed., *Sir Charles Lyell's Scientific Journals on the Species Question* (New Haven: Yale Univ. Press, 1970), 404 and 480.

216 To [Charles] LYELL; Down (type 2) [1860 June] 14th [wmk. 1860] ALS; 7 3/4 B D25.L
x5; 5p. and
1p. enc. @ 4.5
x7.25 (other
enclosures
wanting)

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Printed, with minor changes: *Life and Letters* II, 319-20. At beginning of letter is: Etty [Henrietta Emma Darwin Litchfield] is in slightly worse health; CD cannot walk; sends extract of letter from [Edward] Blyth, who is grateful to Lyell for help concerning Chinese expedition; ¹ encloses letter from [William] Hopkins; fancies Hopkins is "horrified about man; I have told him that I thought man must be included under same category with animals"; returns four pamphlets; does not see much in Binney [see previous letter, above]. p. 319, line 5, add: "It is no wonder [Jean Louis Rodolphe] Agassiz denies varieties in animals, when he calls even the *same* forms in two distinct countries, two Species." At end of letter is: after much puzzling, does not know what A[ndrew] Murray meant [see CD to Lyell, June 1, 1860, above] by "Agassiz & ab ovo". End. reads: Blyth says there is account of flint tools found in ice in [Elizabeth Juliana Leeves] Sabine's translation of [Ferdinand Petrovich, Baron von] Wrangell's [i.e. Vrangell's] Voyage ² on page 117 of introduction; this find relates to issues like mastodon found in ice, and is worth checking; Blyth thinks Eskimos, when first discovered, had no iron tools, and he refers to essay ³ by J[ohn] Richardson.

Other Descriptive Information

1. See the following letters, all abstracted above: CD to W. H. Sykes, December 20, 1859; CD to Lyell, December 29, 1859; and CD to Lyell, late March-early April, 1860. See also Loren C. Eiseley, "Charles Darwin, Edward Blyth, and the Theory of Natural Selection," *Proc. Am. phil. Soc.*, 103 (1959): 154-55.
2. *Narrative of an Expedition to the Polar Sea...*, tr.... by Mrs. Sabine, ed. by E. Sabine (London: J. Madden and Co., 1840).
3. "Esquimaux: Their Geographical Distribution," *Edinb. new phil. J.*, 52 (1852), 322-23.

217 To [Charles] LYELL; Down (type 2)	[1860] June 17th [wmk. 1860]	ALS; 7 3/4 x5; 4p.	B D25.L
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Printed, with minor changes and minor omissions: *More Letters*, I, 154 (letter 105). line 24, add: Etty [Henrietta Emma Darwin Litchfield] is slightly better in health, has been ill for exactly seven weeks.

218 To [Thomas Campbell] EYTON; Down (type 2)	[1860]	ALS; 7 3/4 x5; 1p.	B EY83
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Please send to CD any authentic cases of duration of gestation in dogs; hounds, otter-hounds, or any breed will be acceptable.

Other Descriptive Information

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1. Portion of a watermark on this letter appears to be 1860. Also, dimensions of stationery and Down address used fit a dating of 1860. Finally, CD was studying gestation of dogs for the first time in June, 1860; see CD to Charles Lyell, June 1, 1860, above.

219 To [Charles] LYELL; Down (type 2)	[1860 June] 20th [wmk. 1860]	ALS; 7 3/4 x5; 4p.	B D25.L
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Printed in full, with minor changes: *More Letters*, I, 155-56 (letter 106). p. 155, line 8, change "surely we" to "surely as we".

220 To [Charles] LYELL; Down (type 2)	[1860 June] 25th [wmk. 1860]	ALS; 7 3/4 x5; 4p. (enclosures wanting)	B D25.L
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Printed, with minor changes: *More Letters*, I, 155n. At beginning of letter is: encloses authentic arrowheads, with note describing location of discovery, which were sent to CD by Mrs. Moir, mother-in-law of Col. Erskine. ¹ line 4, questionable word is definitely "record". At end of letter is: because of bad stomach, will give up, reluctantly, his plans to attend [B.A.A.S. meeting at] Oxford [June 27-July 4]; will leave Thursday [June 28] for one week of water cure at Dr. [Richard James] Lane's, Sudbrook Park, Richmond, Surrey; will not stay longer because Etty [Henrietta Emma Darwin Litchfield, CD's daughter], while better, is still ill; thanks for letter just received; returns unimpressive letter from [John William] Dawson; ² wishes to borrow Dawson's review [of Darwin, *Origin* (1859)]; on Dawson's letter, it "would be insanity to compare evidence of organic change with geological change, at present, as far as strength of evidence goes. But what inches of elevation on coast of Sweden are to great mountains so are the numerous varieties & endless doubts what to call species & what varieties, to undoubted species. I entirely deny that there is no evidence of change. But time alone will bring naturalists round, when they find that they can explain many facts on such views as mine, & cannot on view of creation."

Other Descriptive Information

1. See CD to Lyell, May 4, 1860, above.
 2. For Lyell's comments on Dawson's letter, see Leonard G. Wilson, ed., *Sir Charles Lyell's Scientific Journals on the Species Question* (New Haven: Yale Univ. Press, 1970), 457-58.
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221 To [Charles] LYELL; Sudbrook Park/ [1860 July] 5th. Thursday ALS; 7 3/4 B D25.L
 Richmond [wmk. 1860] x5; 4p., plus
 1p. fragment
 of AD by
 Lyell @ 6
 x5 Fragment
 removed +
 Carroll no.
 172

Thanks for note; glad Lyell is going to Amiens; while there, please explain high and low dispersion of flint gravel; also glad Lyell to investigate post-glacial period; Etty [Henrietta Emma Darwin Litchfield, CD's daughter] moved to Hartfield on Tuesday; leaves on Saturday; glad CD did not attempt [B.A.A.S. meeting at] Oxford; "[Thomas Henry] Huxley, [Joseph Dalton] Hooker & J[ohn] Lubbock (as I am pleased to hear) seem to have stuck up for modification of Species like Trojans"; Asa Gray also goes on fighting for CD's theory; ¹ thinks "we shall in long run conquer"; likes [article by William] Hopkins in *Fraser's Magazine*,² but regrets "soul-discussion"; difficulties *alone* "make a very damaging review"; Lyell's facts convinced CD for first time that hare-rabbits are hybrids; could not confirm this before. ³ Enc. is entitled "C. Darwin/ *On Species & Creation*" and is merely a list of such headings as "Bermuda & Madeira Birds why like Continental--" and "Primrose & cowslip".

Other Descriptive Information

1. ?See Historical Records Survey, Division of Professional and Service Projects, Works Projects Administration, *Calendar of the Letters of Charles Robert Darwin to Asa Gray* (Boston: Historical Records Survey, 1939; reprinted Wilmington, Delaware: Scholarly Resources, Inc., 1973), 27-28.
2. "Physical Theories of the Phenomena of Life," *61* (1860): 739-52; and *62* (1860): 74-90.
3. See: CD to Lyell, May 18, 1860, above; CD to Lyell, May 22, 1860, above; and Darwin, *Variation under Domestication* (1868), I, 105 and 105n.

222 To [Charles] LYELL; Hartfield [1860] July 30th ALS; 10.5 B D25.L
 x8.25 2p.

Printed, with minor changes: *Life and Letters* II, 327-28. At beginning of letter is: have been at Hartfield three weeks because Etty [Henrietta Emma Darwin Litchfield, CD's daughter] is still

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ill; return home in few days [August 2]; H[enry] Holland saw Etty few days ago, predicted long recovery; has seen no one except [Joseph Dalton] Hooker for hour or two at Kew. p. 327, line 9, add: "considering [Richard] Owen's aid [by the way it seems generally admitted that Huxley smashed Owen at Oxford] ¹ [CD brackets]; it quizzes me really in capital style". p. 328, line 3, missing name is "Owen". p. 328, line 5, add: "Owen is really wonderfully clever in his malevolence."

Other Descriptive Information

1. Reference is to Thomas Henry Huxley at the B.A.A.S. meeting at Oxford from June 27 to July 4, 1860.

223 To [Charles] LYELL; Down (type 2) [1860] August 11th ALS; 10.5 B D25.L
x8.25 4p.

Printed, with minor changes: *Life and Letters* II, 331-32. At beginning of letter is: thanks for letter; have been home about a week; Etty [Henrietta Emma Darwin Litchfield, CD's daughter] improving, but anxiety over her has interrupted CD's work. p. 331, line 11, missing name is [Richard] Owen. p. 331, line 14, add: A[sa] Gray "argued capitally" for CD at second discussion [of natural selection] before American Academy [of Arts and Sciences]; Owen sent copy of "one of his Reports, so he does not wish to come to quarrel with me." p. 331, line 20, add: Rudolf Wagner has published in Germany an abstract of [Jean Louis Rodolphe] Agassiz, [*An*] *Essay on Classification* [London: Longman & Co., 1859] in relation to `Darwin *ansichten*' and concludes that truth lies between CD and Agassiz, which "will make Agassiz savage"; [Thomas Henry] Huxley says [Karl Ernst Ritter] Von [*sic*; von] Baer [Edler von Huthorn] "goes a long way with us,...has spoken publicly &...will perhaps publish on subject." p. 331, line 24, add: there is a very good, geological, favorable third article [on natural selection] in *London [Quarterly and Holborn] Review*, author unknown. p. 332, line 7, add: Mrs. [Frances Harriet Henslow] H[ooker] and baby [Brian Harvey Hodgson Hooker] are at Worthing; latter is ill.

224 To [Charles] LYELL; Down (type 2) [1860] Aug 28th ALS; 10.5 B D25.L
x8.25 2p.

While in London lately, heard that Sir G[eorge] Grey found his wife [Harriet Spencer Grey] in bed with "Capt. Keppell"; saw [Hugh] Falconer, who spoke of "tiny new species of Elephant from Malta"; Asa Gray's review [i.e. part two of "Darwin on the Origin of Species"] in August *Atlantic Monthly* [6 (1860): 229-39] is excellent, argumentative; ¹ Gray is "a first rate arguer" who "most completely understands the subject"; CD has been abused in Catholic journal; glad that "Rajah Sir

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J[ames] Brook" is well again; work going well, today finished dogs; ² still believes dogs descended from "several wild stocks"; sent *Athenaeum* and *Quarterly Review*.

Other Descriptive Information

1. For a recent reprint and a full publication history of this review, see Asa Gray, *Darwiniana...*, ed. A. Hunter Dupree (Cambridge, Mass.: Belknap Press, 1963), 72n and 85-105.
2. Darwin, *Variation under Domestication* (1868), I, 15-43.

225 To [Charles] LYELL; Down (type 2) [1860] Sept. 1. ALS; 10.5 B D25.L
x8.25 4p.

Printed, with minor changes and minor omissions: *Life and Letters* II, 334-37. p. 336, line 22, after "applies", add "perhaps". p. 336, line 29, change "clear" to "close".

226 To [Charles] LYELL; Down (type 2) [1860] Sept. 12th ALS; 10.5 B D25.L
x8.25 4p.

Printed, with minor changes: *Life and Letters* II, 339-41. p. 339, line 5, add: "Even if his mind had not been full of [thoughts about his trip to] Syria he could never have conjectured your precise line of thought." p. 340, line 13, add: cannot estimate number of species " `extinguished in a given time' "; passages on pages 168 and 313 [of Darwin, *Origin* (1859) or (1860)] are not contradictory, because "Mere variability & variability taken advantage of & selected are widely different considerations"; gives example of rudimentary organs; has not been guarded enough in claim that Ammonites became extinct *relatively* suddenly compared to other families [see *Origin*, 321-22]; has alluded to much extinction and modification in great intervals between formations; thinks it striking that in southern Chile near Concepcion, there are apparently Tertiary beds with Ammonites and Baculites. p. 341, line 7, add: Darwins go to sea [Eastbourne] in about a week [Sept. 22]. ¹

Other Descriptive Information

1. For Lyell's letters to CD during this period, see Leonard G. Wilson, ed., *Sir Charles Lyell's Scientific Journals on the Species Question* (New Haven: Yale Univ. Press, 1970), 467-69, 472-77.

227 To [Charles] LYELL; 15 Marine Parade/ Eastbourne [1860 September] 23d Sunday ALS; 8.25 B D25.L
x6.5 10p. and
2 sketches

Printed, with minor changes: *Life and Letters* II, 341-44. p. 341, line 6, add: has sent review by A[sa] Gray; ¹ as *Ann. Mag. nat. Hist.* has printed [Jean Louis Rodolphe] Agassiz's article, ² will

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ask its editor [William Jardine] in fairness to reprint Gray at CD's expense and with Gray's name attached; Gray's review good because it gives so much of [Francois Jules] Pictet [de la Rive]; "The Annals, I fear, have very small circulation"; misunderstood Lyell on types; mentions health of Etty [Henrietta Emma Darwin Litchfield, CD's daughter] and death of the [Thomas Henry] Huxleys's son [Noel Huxley]. p. 342, lines 12 to 14, add in left margin: "[Richard] Owen if he chose to attend to such view could work this out." p. 342, line 20, add: was silent because unsure that there was fossil rodent in Australia, but thought not; as to Australia's especial suitability for marsupials, "I have always thought it a gigantic hallucination of Owen.--not to mention Rodents"; dingo was wild long before South Australian volcanic outburst, and there are many marsupial species in Brazil; also, New Guinea, although humid, is tenanted by marsupials as exclusively as Australia; despite antiquity of dingo (referred to in dog MS³), thinks dingo introduced by man, and if so, this bears on antiquity of man; if dingo existed outside Australia then it is not aboriginal in Australia; [René Primevère] Lesson says same about dog of New Ireland, but Lesson not to be trusted; likes case of tree stump living by natural grafting of roots, wants reference on it; thinks case confined to Coniferae.⁴ p. 342, line 27, add: [Jean Louis Rodolphe] Agassiz's remark in [Josiah Clark] Nott and [George Robins] Gliddon⁵ on coincidence of color alone being a fleeting character "does not go for much in his comparison of man & anthropoid apes."

Other Descriptive Information

1. See CD to Lyell, August 28, 1860, above.
2. "Prof. Agassiz on the Origin of Species," *Ann. Mag. nat. Hist.*, 6 (1860): 219-32.
3. Darwin, *Variation under Domestication* (1868), I, 15-43, in manuscript.
4. See also Leonard G. Wilson, ed., *Sir Charles Lyell's Scientific Journals on the Species Question* (New Haven; Yale Univ. Press, 1970), 476.
5. Louis Agassiz, "Sketch of the Natural Provinces of the Animal World and Their Relation to the Different Types of Man," in J. C. Nott and G. R. Gliddon, *Types of Mankind; Or Ethnological Researches...* (Philadelphia: Lippincott, Grambo & Co., 1854), lxxv.

228 To [Charles] LYELL; 15 Marine Parade/ Eastbourne	[1860 September] 26th [wmk. 1860]	ALS; 7 3/4 x5; 8p.	B D25.L
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Printed in full, with minor changes: *More Letters*, I, 167-69 (letter 112).

229 To [Charles] LYELL; 15. Marine Parade/ Eastbourne	[1860 September] 28 Friday Evening [wmk. 1860]	ALS; 7 3/4 x5; 8p.	B D25.L
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(slightly
mutilated)

Printed, with minor changes: *Life and Letters* II, 345-46. At beginning of letter is: mentions Lyell's letter; extinction of Ammonites is "a most singular fact" despite what Lyell says about great breaks in upper chalk; Lyell may obtain *Atlantic Monthly* at Trubners. p. 345, line 6, add: "but in very difficult points, &". p. 346, line 2, add: has asked A[sa] Gray where [Karl Ernst Ritter] Von [sic; von] Baer [Edler von Huthorn] makes statement about guinea pig, which is worthless unless there is new evidence about wild parent; denies that aperea of La Plata and southern Brazil is the wild parent stock; guinea pig was domesticated when America was discovered; von Baer has read [Darwin, *Origin* (1859)] approvingly; would keep [?i.e. breed] hybrid hare-rabbit himself, but still would not have evidence of hybridity of any specimens obtained from France; [Abraham Dee] Bartlett is correct to try to cross wild hare and rabbit, but he should try several races of rabbit.

230 To [Charles] LYELL; 15 Marine [1860] Oct. 3d [wmk. 1860] ALS; 7 3/4 B D25.L
Parade/ Eastbourne x5; 11p.

Printed, with minor changes: *More Letters*, I, 169-72 (letter 113). p. 169, line 1, add: "The Dog MS is safe at Down." p. 171, line 37, add: Lyell's remarks on Ammonites, cuttlefish, and Hippurites are interesting; ¹ will think about keeping the rabbits; Isidore G[oeffroy] S[ain]t Hilaire, of whom CD has very good opinion, only knows the case second hand; [Richard] Owen "sneers at [Geoffroy Saint Hillaire]; & I daresay he [?] is not [to] be trusted on Homologies"; ² do not trust Schlagintweit [i.e. Hermann Rudolf Alfred von Schlagintweit-Sakünlünski and Robert von Schlagintweit] about yaks; ³ "there are many reputed species (laying on one side question of fertility) not so distinct as negro & white man."

Other Descriptive Information

1. See Leonard G. Wilson, ed., *Sir Charles Lyell's Scientific Journals on the Species Question* (New Haven: Yale Univ. Press, 1970), 497.
2. For Geoffroy Saint Hilaire on homologies, see Stauffer, ed., *CD's Nat. Selection*, 298 and 298n.
3. Hermann and Robert Schlagintweit, "Notes on Some of the Animals of Tibet and India," *Rep. Br. Ass. Advmt Sci.*, 27 (1857), pt. 2: 106-08. See also Stauffer, ed., *CD's Nat. Selection*, 438 and 438n.

231 To [Charles] LYELL; 15 Marine [1860 October] 5th Friday ALS; 7 3/4 B D25.L
Parade/ Eastbourne [wmk. 1860] x5; 6p.

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Printed, with minor changes: *More Letters*, I, 172 (letter 114). line 8, change "creative" to "creation". At end of letter is: bats are "washed out of my head"; species in Madeira, collected by Mr. Mason [?], are European; does not remember about Palma specimens, given to [Robert Fisher] Tomes of Welford; did not get Azores species; "I had heard nothing of the sales of `Origin' [i.e. Darwin, *Origin*] for months, & am much pleased to hear that the sale continues; this surprises me"; has not received second *Atlantic* article, ¹ meant for [Francois Jules] Pictet [de la Rive]; has not received theological dialogue; ² [Hugh] Falconer, who is only man who has facts correct, is critical of Isidore Geoffroy [Saint Hilaire]; will check on St. Helena concerning [? Geoffroy St. Hilaire's] conjecture about number of plants exterminated; St. Helena was woody in late periods; see Darwin, *Journal of Researches*; is "wasting time shamefully" on Drosera experiments which are "perverse & crooked"; Etty [i.e. Henrietta Emma Darwin Litchfield, CD's daughter] is gaining strength; [Heinrich Georg] Bronn has appended chapter of objections at end of translation; ³ Miss Ludwig has translated it for CD.

Other Descriptive Information

1. Asa Gray, "Darwin on the Origin of Species [Part II]," *Atlantic Monthly*, 6 (1860): 229-39. See CD to Lyell, Aug. 28, 1860, above.
2. "Discussion between Two Readers of Darwin's Treatise on the Origin of Species, upon Its Natural Theology," *Am. J. Sci. (Silliman's J.)*, 30 (1860): 226-39.
3. Darwin, *Über die Entstehung der Arten...* [German *Origin*], tr. into German by H. G. Bronn (Stuttgart; Schweizerbart'sche Verlag, 1860).

232 To [Charles] LYELL; 15 Marine Parade/ Eastbourne	[1860] Oct 8. [wmk. 1860]	ALS; 7 3/4 x5; 6p. and 1p. enc. [broadside advertisement for C. R. Bree, <i>Species Not Transmutable</i> , Groombridge and Sons, 1860)], @ 7.5 x5	B D25.L
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Printed, with minor changes: *Life and Letters* II, 346-47. p. 347, line 19, add: has written to Down about missing reviews [see preceding letter, above]; believes southeast and southwest corners of Australia were islands, with latter older and more typical; [Joseph Dalton] Hooker has speculated on this in Introduction; ¹ so have [Joseph Beete] Jukes and CD himself in review ² of [George Robert] Waterhouse's *[A Natural History of the] Mammalia* [2v. (London: H. Ballière, 1846-1848)]; in Saturday's *Athenaeum*, Jukes answered capitally Sir [Henry] James's "wild speculations" on change of earth's axis. ³ p. 347, line 24, add: Miss L[udwig] says [Heinrich Georg] Bronn is very difficult German [see preceding letter, above]; has not heard of Bovey Coal Plants; ⁴ hopes [Charles James Fox] Bunbury will undertake them and that Bunbury's new position will not interfere with his science; does not know [Charles Robert] Bree, perhaps the son of Rev[eren]d [William Thomas] Bree, "a good miscellaneous observer of habits of all creatures...& Botanist."

Other Descriptive Information

1. See CD to Lyell, Sept. 2, 1859, above, esp. my note 2.
2. *Ann. Mag. nat. Hist.*, 19 (1847): 53-56, esp. top of 56.
3. See *More Letters*, II, 140n.
4. See *Life of Lyell*, II, 346-47 and 349-50.

233 To [Charles] LYELL; Down (type 2) [1860] Nov. 20 ALS; 8.25 B D25.L
x6.5 4p. and
4p. enc.

First portion printed, with minor changes and minor omissions; *More Letters*, I, 461 (letter 351). At end of this portion is: Lyell's chapters must be difficult but are worth much labor; fears that Lyell's volume on geological history of man [i.e. *The Geological Evidences of the Antiquity of Man* (London: John Murray, 1863)] "will slip through your fingers"; does not think [Joseph Dalton] Hooker has criticized [Edward] Forbes; H[ewett] C[ottrell] Watson has abused Forbes in *Cybele* [*Britannica; Or, British Plants and Their Geographical Relations*, 4v. (London: Longman & Co., 1847-1852), I, 465-72], but it is not well done. Next portion and enclosure printed, with minor changes and minor omissions: *Life and Letters* II, 349-51. p. 350, after signature, add: Etty [i.e. Henrietta Emma Darwin Litchfield, CD's daughter] goes on well, but is weak. p. 350, right column of enclosure, line 3, change "alludes to" to "attacks".

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234 To [Charles] LYELL; Down (type 2) [1860] Nov. 24th [wmk. 1859] ALS; 4p. @ B D25.L
8 x5, 2p. @ 8
3/4 x5.5 6p.

First portion printed, with minor changes and minor omissions: *Life and Letters* II, 352, lines 1 to 10.
Next portion printed, with minor changes and minor omissions: *Life and Letters* III, 319-20. At end of this portion is: Etty [i.e. Henrietta Emma Darwin Litchfield, CD's daughter] goes on well, but doctors say rapid progress is impossible; Drosera and dreadful illness for last six months has made progress on CD's larger book "almost nothing".

Next portion printed, with minor changes: *Life and Letters* II, 352-53, beginning where first portion ended. p. 352, line 4 of this portion, missing name is "[Richard] Owen".

235 To [Charles] LYELL; Down (type 2) [1860] Nov. 25th ALS; 8.25 B D25.L
x6.5 6p.

Printed in full, with minor changes: *More Letters*, II, 137-40 (letter 491). p. 139, line 29, change "the great" to "that great [an]".

236 To [Charles] LYELL; Down (type 2) [1860] Dec. 4th ALS; 8 x6.5 B D25.L
5p.

First portion printed, with minor changes and minor omissions: *More Letters*, II, 140-41 (letter 492). p. 141, line 10, add: "How far to lump & split species is indeed a hopeless problem. It must in the end, I think, be determined by mere convenience." At end of this portion is: glad to hear that Lyell continues to "stir them up" at Zoolog[ical] Soc[iety of London].

Next portion printed, with minor changes and minor omissions: *Life and Letters* II, 352n. At end of this portion is: there is an article ¹ on Darwin, *Origin*, in *Macmillan's Magazine*; has not yet read [John] Phillips, [*Life on the Earth, Its Origin and Succession* (Cambridge: Macmillan and Co., 1860)].

Other Descriptive Information

1. Henry Fawcett, "A Popular Exposition of Mr. Darwin on the Origin of Species," 3 (December, 1860): 81-92. For a recent reprinting, see David L. Hull, *Darwin and His Critics: The Reception of Darwin's Theory of Evolution by the Scientific Community* (Cambridge, Mass.: Harvard Univ. Press, 1973), 277-90. See also *Life and Letters* II, 299.

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237 To?: Down (type 2) To: Edward Walford [Jan-Apr. 1865] ALS; 7.5 x5; B D25.69
2p.

Would be proud to be one of their series [?of photographs of famous persons], but cannot spare time for special trip to London and is not likely to be there on business soon; will call on Mr. Edwards during the summer, when next in London.

Other Descriptive Information

1. Watermark sets lower endpoint for date. Type of Down address employed was last used in 1861, which sets upper endpoint.

238 To Ch[arles] LYELL; no location [1861] Feb. 2d [end. Febr 3d. 1861; pmk. FE 3/ 61] ALS; 8 x6.5 B D25.L
2p. and env.,
add. [Sir
Ch. Lyell/
53. Harley
St/ London
(W.)], end. [C.
Darwin/ Febr
3d. 1861; C.
Darwin/ Feb.
1861/ Agassiz
&/ Bowen/
(unintelligible
word--PTC)]

Printed in full, with minor changes: *Life and Letters* II, 359-60. p. 359, line 6, change "the lengths" to "the very absurd lengths". p. 359, line 13, change "[Jean Louis Rodolphe] Agassiz admits" to "Agassiz (foolish man) admits". At end of letter is: "I sent Calcutta Review a couple of days ago." ¹

Other Descriptive Information

1. [Edward Blyth], "[Review of] *On the Origin of Species*," *Calcutta Review*, 35 (1860): 64-88. See also Vorzimmer, *Reprint Catalogue*, item R.61.

239 To [Philip Lutley] SCLATER; Down (type 2) [1861] March 4th [end. March 1861; wmk. 1860] ALS; 7 3/4 x4 B D25.S
3/4; 2p., end.

[C. Darwin/
March 1861]

Is working on skeletons of rabbits; wants from [Zoological] Gardens [of Zoological Society of London] one of the two Russian rabbit bucks donated by CD; will skeletonize it, and does not want skull damaged; has signed Sclater's certificate [for membership] at Royal Soc[iety of London]; would like to see a recent paper on skeleton of hybrid hare-rabbit, if Sclater has spare proof of same. ¹

Other Descriptive Information

1. Probably Edwards Crisp, "On Some Points Relating to the Habits and Anatomy of the Oceanic and of the Freshwater Ducks, and also of the Hare (*Lepus timidus*) and of the Rabbit (*L. cuniculus*), in Relation to the Question of Hybridism," *Proc. zool. Soc. Lond.*, 1861: 82-87. Read on February 26, 1861. See also Darwin, *Variation under Domestication* (1868), I, 126n.

240 To [Philip Lutley] SCLATER; Down (type 2)	[1861 March] 12th [end. March 1861; wmk. 1860]	ALS; 7 3/4 B D25.S x5; 2p., end. [C. Darwin/ March 1861]
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Thanks for rabbit [see previous letter, above]; glad Sclater likes Asa Gray, ¹ which CD incorrectly thought he himself had sent to Sclater; will soon receive corrected Darwin, *Origin* [(1861)], which [John] Murray will soon distribute; glad Sclater has "become `heretical' on species"; was not surprised that Sclater was initially opposed to CD; "I cannot...respect anyone who has knowledge & can change his opinion suddenly on such a point"; please publish "a word on our side", as "those opposed write vehemently & those on our side are silent"; day before yesterday, had letter from "a Professor, ² who *dares* not speak out."

Other Descriptive Information

1. Probably Gray, *Natural Selection not Inconsistent with Natural Theology: A Free Examination of Darwin's Treatise on the Origin of Species, and of Its American Reviewers...* (London: Trübner, 1861). See *Life and Letters*. II, 370-71. For a recent reprint of this three-part review, see Gray, *Darwiniana...*, ed. A. Hunter Dupree (Cambridge, Mass.: Belknap Press of Harvard Univ. Press, 1963), 72-145.

2. Perhaps George Bentham; see *Life and Letters*. II, 292 and 292n.

241 To [Philip Lutley] SCLATER; Down (type 2)	[1861] March 23d [end. March. 1861; wmk. 1860]	ALS; 7 3/4 B D25.S x5; 4p., end.
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[C. Darwin/
March. 1861/
about Birds]

Thanks for note; had not heard of Sclater's paper at Oxford; ¹ could one conclude from known distribution of Gallinaceae that probability that a species of genus *Gallus* is endemic to South America is as low as that of endemic hummingbird from Old World; is it true that no species of *Gallus* is known in Africa and that probably no *Gallus* species wandered far from the metropolis of the genus in India and northern Malay Islands; where in *Proc. zool. Soc. Lond.* is described the *Gallus Temminckii* of G[eorge] R[obert] Gray? ²

Other Descriptive Information

1. "Remarks on the Geographical Distribution of Recent Terrestrial Vertebrata," *Rep. Br. Ass. Advmt Sci.*, 30 (1860), pt. 2: 121-22. The B.A.A.S. met at Oxford in 1860.
2. "Notice of Two Examples of the Genus *Gallus*," *I7* (1849): 62-63.

242 To?: Down (type 2)

[?1861]

ALS; 7 3/4 B D25.63
x5; 1p.

Thanks for corr.'s volume on old bones and for compliments.

Other Descriptive Information

1. Apparently the combination of Down address variant used in this letter and a watermark of 1860 is unique to the period mid-1860 to mid-1861.

243 To?: Down (type 2)

[?1861]

ALS; 7 3/4 B D25.206
x5; 2p., end.
[Chas. Darwin
F.R.S./ Author
of 'Origin of
Species']

Always thought corr. had many primroses; sorry for trouble; sends flowers; thanks for information about *Oxalis*; will repay corr. for *Cypripedium* and *Dionaeas* at one time.

Other Descriptive Information

1. Combination of Down address variant used with watermark provided year.
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244 To Charles LYELL; Down (type 2) [1861] Ap. 12th [end. Apr. 13/ 1861; pmk. AP 13/ 61; wmk. 1859] ALS; 8 x5; B D25.L
6p. and env.,
add. [Sir
Charles Lyell/
53. Harley
St/ London
(W.)], end.
[C. Darwin/
Apr. 13/ 1861/
Somme valley
beds/ whether
preglacial/
Ants in Texas
planting]

Printed in full, with minor changes: *Life and Letters II*, 364-65.

245 To [Philip Lutley] SCLATER; Down (type 2) [1861 April] 21. [end. April 1861; wmk. 1859] ALS; 7 3/4 x5; 3p. and end. [5642/
C. Darwin/
April 1861/
on Birds of/ S.
America]

Enjoyed talk with Sclater; as Sclater is working at birds of S[outh] America, check CD's reference to three species of *Opetiorhynchus* in Darwin, *Zoolog [y of the Voyage] of the Beagle* [(1838-1843), pt. 3], *Birds* [by John Gould], p. 67, to confirm comments on observed differences in habits of species; do similarly for *Scytalopus*, p. 74; has made "horrid mistake" on *O[rpheus] parvulus* [pp. 63-64 and 67], a temporary name for a form of *O[petiorhynchus] Patagonicus* [p. 67]; Capt[ain C. C.] Abbot confounded *O[petiorhynchus] vulgaris* and *antarcticus*, which CD simultaneously observed and recorded to be closely similar except in habits; ¹ *Opetiorhynchus* [*Patagonicus*, pp. 67-68] from Chiloe seems to be a case of intermediate variety.

Other Descriptive Information

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1. Abbot, "Notes on the Birds of the Falkland Islands," *Ibis*, 3 (1861): 149-67; and Darwin, *Zoology of the Voyage of the Beagle* (1838-1843), Pt. 3: *Birds*, by John Gould, 66-68 and 149-50. The Abbot article is incorrectly attributed to the American, Charles Conrad Abbot, in *Cat. scient. Pap.*, 1, 3.

246 To [Philip Lutley] SCLATER; Down (type 4)	[1861] May 4th [end. May 1861]	ALS; 8 x5; 5p., end. [C. Darwin/ May 1861]	B D25.S
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Thanks for note with offer to insert in *Ibis* a notice by CD on habitats of Falkland birds; cannot write such notice, since CD's catalogs and notes prepared on the spot refer only to specimen number, not genus and species; wrote to [George Robert] Gray and [John] Gould, but could not find original specimen, as specimens [from *Beagle* voyage] were given to Zoological Society [of London] and distributed; "A false habitat is a positive mischief, worse than a species not appearing in a list", so after "careful work" by Capt[ain C. C.] Abbott [sic; Abbot], better to consider the two names errors than to give them without evidence; received letter from [Robert] Swinhoe announcing delivery to Sclater of a new rock pigeon and a *wild Anser cygnoides*, but CD must check these claims when next in London; perhaps pigeon is Himalayan rock pigeon. ¹

Other Descriptive Information

1. For more on this letter, see the preceding letter above, and Darwin, *Variation under Domestication* (1868), I, 237.

247 To [Thomas Campbell] EYTON; Down (type 4)	[?1861]	ALS; 8 x5; 2p.	B EY83
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Has received skeletons; needs name for untagged domestic cock in longest of four boxes received; is the "'Gungla' cock" a specimen of *G[allus] bankiva* or *G[allus] Sonneratii*;² other boxes contain the Hamburg and the call duck; is ill. ³

Other Descriptive Information

1. CD studied the osteology of fowls and ducks in May, 1861; see "Darwin's Journal," 15.
2. "Gungla" may be a derivative of the Indian (hindu) "gunga", or "market".
3. See Darwin, *Variation under Domestication* (1868), I, 260-70.

248 To [Thomas Campbell] EYTON; Down (type 4)	[?1861]	ALS; 8 x5; 5p.	B EY83
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Thanks for prompt reply; without doubt, the [untagged] skeleton was duckwing game and the wild *Gallus* [i.e. the Gungla cock] was *G[allus] bankiva*, since every bone agrees; has two skeletons of Dorking, so send neither one of these nor *G[allus] varius*; do not send mounted skeletons; has examined 25 skeletons and about 55 skulls; skulls show only "differences characteristic of the breeds", but other bones show "much *fluctuating variability*"; thinks skeletons of various species of the same restricted genus or sub-genus differ only slightly; wants to quote Eyton's view that, in allied species, while there are plain differences in some parts of skeleton besides head, bones in wings and legs of all breeds are similar in configuration but not in length and thickness; will keep duck specimen [i.e. call duok; see previous letter] until CD gets to ducks in "a few weeks"; do birds with *large topknot*, such as curassows, have [skull] protuberances to support the topknot? ²

Other Descriptive Information

1. CD worked upon fowls and ducks in May, 1861, finishing ducks on May 31; see "Darwin's Journal," 15.
2. For more on this matter, see: preceding letter; and Darwin, *Variation under Domestication* (1868), I, 260-70, and II, 332-33.

249 To [Thomas Campbell] EYTON; Down (type 4)	[?1861]	ALS; 8 x5; B EY83 3p.
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Thanks for invitation to London and to [town of] Eyton; wanted to visit London for two reasons, but is too ill; if ever visiting Shrewsbury again, will visit Eyton; answer briefly whether skeletons, except skulls, of birds of same restricted genus "do not generally very closely resemble each other", whether wing and leg bones are "generally very constant in form", and "whether in largely crested Gallinaceae the skull is protuberant to support the crest."

Other Descriptive Information

1. This letter clearly follows shortly after the preceding letter, above.

250 To James HUNT; Down (type 4)	[1861] May 28th [pmk. MY28/ 61]	ALS; 8 x5, B D25.33 2p. and env., add. [James Hunt Esqr/ Hon. Sec. Ethnological Socy/ 4 St. Martins Place
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[London
(W.C.)], end.
[Darwin's/
Envelope]

Thanks to president and council of Ethnological Society for electing CD an honorary fellow; thanks for gift of first volume of Society's *Transactions*; thanks personally to Hunt for kind words in letter.

251 To?; Down (type 4)	1861 June 1st	ALS; 8 x5; B D25.19 6p.
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Will value information, but do not hurry with it; unclear whether corr. is thinking of "a general course of *scientific* experiments in crossing or only in relation to Hollyhocks"; there is open field for "research in regard to crossing *varieties* which have been greatly neglected *under a scientific point of view*, though largely & loosely practised by gardeners. Species on the other [hand] have been largely experimented on. As you have lived so much abroad, German is probably quite familiar to you (I wish it were to me) & I would most strongly advise you to get [Karl Friedrich von] Gärtner [*'s admirable 'Versuche ueber die Bastardzeugung, 1849'* ¹ & study it"; suggests in minute detail some crossing experiments with differently-colored hollyhocks which breed true; experiment outlined by CD would be "very interesting on account of a wonderful statement on this head by Gärtner with respect to crossing white & yellow *Verbascum*"; would suggest further experiments with *Pelargonium*, but must not run on.

Other Descriptive Information

1. *Versuche und Beobachtungen über die Bastarderzeugung im Pflanzenreich* (Stuttgart: K.F. Hering, 1849).

252 To [Philip Lutley] SCLATER; Down (type 4)	[1861] June 2d [end. June 1861]	ALS; 8 x5; B D25.S 3p. and end. [5376/ C. <i>Darwin/June</i> 1861/ <i>abt</i> <i>Rabbits</i>]
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Has sent two rabbits from P[orto] Santo to the [Zoological] Gardens [of the Zoological Society of London] for temporary safekeeping; if they are like one brought by [Thomas Vernon] Wollaston in spirits, then they are curiosities, having been feral for 450 years and springing from one doe brought

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[to island] by [João Gonçalvez] Zarco; specimen CD examined differed from common rabbit in skull, shape of dorsal vertebrae, in size *greatly*, in coloring, in color of upper part of tail, and in ears not being edged in black; thinks this may be "a *new species!!*"; must get rid of rabbits because whole household leaves for a two month stay at Torquay, probably beginning the 10th, because of illness of daughter [Henrietta Emma Darwin Litchfield]; care for rabbits, interbreed them or cross them with other rabbits, and find out what [Abraham Dee] Bartlett [superintendent of Gardens] thinks of them; if one or both die while CD is away, send fresh carcasses to CD in Torquay. ¹

Other Descriptive Information

1. For more on the rabbits, see Darwin, *Variation under Domestication* (1868), I, 112-15. The visit to Torquay lasted from July 1 to August 27; see "Darwin's Journal," 15.

253 From Rich[ar]d OWEN; British Museum	1861 June 12	ALS; 7.25 x4.5 2p. (enclosure wanting)	B OW2.14
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Enclosed proof of note which CD will insert in his forthcoming " `Reply' " is "a correct statement of the relations of the passage I have printed on the use & meaning of the term `Creation', as used by Naturalists in some of their discussions, to the partial quotation from it in Prof. Baden Powell's Essay."

254 To [Rev. B. S. MALDEN of Canterbury] ² ; Down (type 4)	[1861]	ALS; 8 x5; 4p.	B D25.81
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Thanks for orchids; felt "boyish delight" at *H[abenaria] viridis*, but it is not a *Habenaria*; has now seen "every British Orchid...except the Lizard [*Orchis hircina*]", which CD hopes to get from corr. or from [G. Chichester] Oxenden; will begin soon to write paper [i.e. Darwin, *Fertilisation of Orchids* (1862)]; glad to see *Aceras* specimens, but they did not have the monstrous flowers; five of six specimens from Oxenden had such flowers; old specimen of *O[rchis] fusca*, like Oxenden's specimens, showed infertility caused by infrequency of insect visits; [in left margin--PTC] look for monstrous flowers on *Aceras*; [in right margin--PTC] monstrous flowers illustrate structure of *Habenaria*; knows "little of Botany", but thinks unspotted purple orchids with hollow stems are *O[rchis] latifolia* (which CD once saw) and white ones are *O[rchis] maculata*; glad to see state of pollen masses on corr.'s Canterbury Fly Ophrys [i.e. *Ophry muscifera*]; look at pollen masses on Bee O[phrys, i.e. *Ophrys apifera*] and especially on its variety, [*Ophrys*] *arachnites*, to see if

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the masses are either removed or simply fallen on own stigmas in *oldish* flowers; return slip from *G[ardeners'] Chronicle*; "June 16th P.S.", thanks for note; part about Lizard shall be kept private; thought *O[rchis] militaris* was same as *O[rchis] fusca*.

Other Descriptive Information

1. This year is written in an ink similar to that used by CD, but is apparently not in CD's hand.
2. See Darwin, *Fertilisation of Orchids* (1862), 43 and 78. Malden is the only person acknowledged by Darwin to have provided specimens of the Frog Orchis (i.e. *Peristylus viridis* or *Habenaria viridis*).

255 To [?F. SMITH, of the British Museum] ² ; Down (type 4)	[1861]	ALS; 8 x5; B D25.231 3p.
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Pollen masses attached to [specimen of] *Bombus hortorum* [i.e. common bumblebee] are not from British orchid, but are from an exotic orchid of the group Epidendreae; suspects bee was caught near a hothouse; fears that corr. does not have "one of the sand-wasps with pollen-masses attached [? which you] alluded to [*sic*]", otherwise CD would have liked to have seen it; could easily ascertain whether the [leaf?] on the S[outh] American wasp was pollen; supposes insects in corr.'s own collection do not have pollen masses attached; ask Mr. Walker [?about pollen on his insects].

Other Descriptive Information

1. Year determined from variant of Down address used, day of "Wednesday" for June 19, and information in Darwin, *Fertilisation of Orchids* (1862), 164.
2. Correspondent is probably either Smith or Sir W. C. Trevelyan; see Darwin, *Fertilisation of Orchids* (1862), 164 and in index under "Smith, Mr. F". Smith was selected because CD's mention of corr.'s *own* collection implies that bumblebee specimen (which was Trevelyan's) did not belong to corr.

256 To Dr. BULLEN; Down (type 4)	[?1861]	AL in third B D25.38 person; 8 x5; 1p.
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Thanks for sending "the orchid flowers with Diptera"; CD and a son of CD have just "made out" that "Orchis maculata is fertilised by the aid of Diptera."

Other Descriptive Information

1. June, 1861, was the beginning of CD's work on orchids; see "Darwin's Journal," 15.
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257 To?: 2. Hesketh Crescent/ Torquay [1861] ALS; 7 3/4 B D25.121
x5; 4p.

Cannot answer corr.'s questions; began to examine living corals nearly 30 years ago, but other pursuits have interfered and CD had forgotten what he knew; had studied "the effects of tranquil & disturbed water on their growth", but forgets his conclusions on this issue; thinks nearly all species were distinct; remembers having thought that classification of stony corals would be difficult; places "much trust" in [James Dwight] Dana, whose health has failed, regrettably.

Other Descriptive Information

1. Year determined by Torquay address; see "Darwin's Journal," 15 and 15n.

258 To [Charles] LYELL; 2. Hesketh [1861] ALS; 7 3/4 B D25.L
Crescent/ Torquay x5; 4p.

Printed, with minor changes: *Life and Letters* II, 376. line 4, add: was "pleased, considering how many have attacked me on 'Induction' &c. to hear...from...H[enry] Fawcett, that...J[ohn] Mill `...considers that your [i.e. CD's] reasoning throughout [Darwin, *Origin* (1859)] is in the most exact accordance with the strict principles of logic. He also says the method of investigation followed is the only one proper to such a subject.' Considering how high an authority he is, this pleases me much, & I think you will be pleased"; ² Etty [i.e. Henrietta Emma Darwin Litchfield] has improved a little. At end of letter is: is writing long paper [i.e. Darwin, *Fertilisation of Orchids* (1862)] on fertilisation of orchids; "I almost wish I could have been completely idle here"; heaven knows when Darwin, *Variation under Domestication* (1868) will be done; regards to wife [Mary Elizabeth Horner Lyell].

Other Descriptive Information

1. Year determined by Torquay address; see "Darwin's Journal," 15.

2. See *More Letters*, I, 189-90 (letter 129). Cf. David L. Hull, *Darwin and His Critics: The Reception of Darwin's Theory of Evolution by the Scientific Community* (Cambridge, Mass.: Harvard Univ. Press, 1973), 27-28.

259 To [Charles] LYELL; 2. Hesketh [1861 (?August 1)] ALS; 8 x6.25 B D25.L
Crescent. Torquay 6p.

Printed, with minor changes: *More Letters*, I, 190-92 (letter 130). At beginning of letter is: Emma [Wedgwood Darwin] and Etty [i.e. Henrietta Emma Darwin Litchfield] are touring, has forwarded [Mary Elizabeth Horner] Lyell's letter "with the sad account of [the death of Frances Elizabeth

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Appleton] Longfellow; ² is surprised at Dutch translation [of Darwin, *Origin*],³ which should be left at Q[ueen] Anne St. p. 190, line 11, change "at in my orchids is" to "at, viz. Orchids, is". p. 192, line 18, add: William [Erasmus Darwin] will join Mr. [?Edmund Gibson] Atherley's Bank, needs a good introduction to Southampton from Lyell. At end of letter is: regards to Lyell's [traveling] party.
4

Other Descriptive Information

1. Year determined by Torquay address; see "Darwin's Journal," 15. Month and day presumed from date of "2 Augt 1861" written in pencil in contemporary hand (not CD's) on manuscript.
2. See *DAB*, XI, 383.
3. This translation is not listed in *Freeman*, but see *Life and Letters II*, 357.
4. See *Life of Lyell*, II, 347.

260 To [Charles] LYELL; 2. Hesketh Crescent/ Torquay	[1861 August]	ALS; 8 x5; B D25.L 3p.
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Printed in full, with minor changes: *More Letters*, I, 192-93 (letter 131).

Other Descriptive Information

1. Reasoning for date same as for preceding letter; date written in pencil is "August/ 1861."

261 To [Charles] LYELL; 2. Hesketh Crescent/ Torquay	[1861] Aug 21 [end. 1861; pmk. AU21/ 61]	ALS; 8 x6.5 8p. and fragment of env., end. [C. Darwin/ returning M.S. on/ Sicily newer than species/ inhabiting it./ & on deification of Natural/ Selection./ 1861]
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Printed, with minor changes: *More Letters*, I, 193-94 (letter 132). At beginning of letter is: returns home [to Down] Monday 26th; ¹ knows page well, has quoted it; approved of note appended by Lyell; sentence only needs "trifling modification"; "adaptation of species [which allows them] to travel widely over existing continents, will necessarily adapt them for occasional still wider transportation to new lands. I have used in Origin this argument to account for very wide range of F[resh] Water productions." ² At end of letter is: sentence at p. 3 reads roughly.

Other Descriptive Information

1. Actual return occurred on August 27; see "Darwin's Journal," 15.
2. See Darwin, *Origin* (1859), 383-88.

262 To [Charles] LYELL; Down (type 2)	[1861]	ALS; 8 x5; B D25.166 1p. (enclosure wanting)
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Printed in full, with minor changes: *More Letters*, II, 188 (letter 524).

Other Descriptive Information

1. Year written on manuscript in pencil in unknown hand, but appears correct from context of letter.

263 To [Charles] LYELL; Down (type 4)	[1861]	ALS; 8 x5; B D25.L 4p.
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Thanks for interesting long letter; has no suggestions on subjects "gone out of my head"; dislikes [argument concerning] absence of organic remains"; there were [no organic remains] in Patagonia or T[ierra] del Fuego where shells were present, but from what CD has read of Greenland, suspects what Lyell now admits and [Robert] Chambers urges; is abundance of swimming animals any guide to shells, etc., living at bottom; [such] animals cannot live "where icebergs are habitually grounded"; see Darwin, ["On the Distribution of the Erratic Boulders and on the Contemporaneous Unstratified Deposits of South America,"] *Trans. geol. Soc. Lond.*, 6 [(1842): 180-88, at] 186; sorry Lyell must "alter & modify [his published treatment of]...this great subject"; admires Lyell's industry.

Other Descriptive Information

1. Year written on manuscript in pencil in unknown hand, appears contemporary.

264 To [Charles] LYELL; Down (type 4)	[1861 Sept. 15]	ALS; 8 x5; B D25.L 5p., end.? [Sept. 15]
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Thanks for interesting correspondence; [Thomas Francis] Jamieson is "a capital man"; has been performing experiments on *Dionaea*; Lyell is discussing a "grand subject", but CD cannot help with it; lake theory can account for absence of deltas on Lochaber shelves; submergence of 1,200 feet in Perthshire since glaciation is striking evidence concerning Glen Roy; has been looking at his [CD's] Glen Roy paper, ² gives final arguments in favor of elevation and subsidence theory to explain Glen Roy; "But I suppose ice-lakes must be true cause"; disagrees with Lyell's claim in former letter that great glaciers in Scotland caused by great loftiness; glacial phenomena great in extent and prevalence [during ice age]; seems safest to assume great glacial period to be simultaneous until shown otherwise.

Other Descriptive Information

1. Month and day appear to be an endorsement by Lyell. Year is written in pencil on manuscript in an unknown hand and appears correct from context of letter.
2. "Observations on the Parallel Roads of Glen Roy,..." *Phil. Trans. R. Soc.*, 129 (1839): 39-81.

265 To [Charles] LYELL; Down (type 2)	[1861] Sept. 22d [end. Sepr 1861]	ALS; 8 x6.5 5p. and end. [Darwin 81a/ Glen Roy/ Sepr 1861]	B D25.L
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Printed, with minor changes and minor omissions: *More Letters*, II, 188-89 (letter 525). p. 189, line 6, change "found" to "formed". p. 189, line 14, change "alluded" to "attended".

266 To [Charles] LYELL; Down (type 4)	[1861] Oct 1st [end. 1st. Oct 1861]	ALS; 8 x5; 4p. and fragment of env., end. [C. Darwin/ answer to/ Jamieson on/ Glen Roy/ 1st. Oct 1861]	B D25.L
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Printed in full, with minor changes: *More Letters*, II, 190-91 (letter 527).

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267 To [Charles] LYELL; Down (type 4) [1861] Oct 14th [end. 1861] ALS; 8 x5; B D25.L
5p. and end.
[(88)/ Darwin
1861/ on
Jamieson
revisit/ to Glen
Roy]

Printed in full, with minor changes: *More Letters*, II, 191-92 (letter 528). p. 191, line 15, change "Friesland" to "Finland".

268 To [Charles] LYELL; Down (type 4) [1861] Oct. 20th [end. Oct. 24. 1861.] ALS; 8 x5; 4p. and B D25.L
fragment of
env., end. [C.
Darwin/ Oct.
24. 1861./
Glen Roy
glaciers/ &
ice-dams/
"land straits"]

Printed, with minor changes: *More Letters*, II, 192 (letter 529). At end of letter is: has been working hard at orchids; "The subject is, I fear, too complex for the Public & I fear I have made a great mistake in not keeping to my first intention of sending it to Linnean Soc[iet]y; but it is now too late, & I must make the best of a bad job." ¹

Other Descriptive Information

1. See Darwin, *Fertilisation of Orchids* (1862). CD originally planned to write only a long essay on orchids, not a book.

269 To [Charles] LYELL; Down (type 4) ² [1861 October] ALS; 8 x5; B D25.L
3p.

Has been dissecting; returns note; supposes that all believe Lyell's view that "water flowed out at head of valley where the lakes existed"; Glen Roy's " `intermediate shelf " seemed like a plain shelf to CD, although [Thomas Francis] J[amieson] disagrees; intermediate shelf has been seen

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by everyone who visited Glen Roy; there is no outlet at this shelf, but [David] Milne[-Home] says there may be; valley should be searched for such outlets; "A man might spend his life there"; hopes J[amieson] will return to Glen Roy; "it is an opprobrium to British Geologists, that it shd. not be settled beyond dispute"; is disturbed by sloping, stratified, deposited detritus at all levels "by opening on a lake or arm of sea"; terminal moraine at mouth of Spean seems better than ice; "But if it were the sea, I cannot help a sneaking hope that the sea might have formed the horizontal shelves.--" ³

Other Descriptive Information

1. Year and month written on manuscript in pencil in unknown hand, appears contemporary and correct, according to context.
2. Although written on stationery bearing the Down (type 4) letterhead, the page of the paper with this letterhead printed upon it is at the end of the letter; first page of manuscript text is headed simply "Down", in CD's hand.
3. See also: Darwin, "Observations on the Parallel Roads of Glen Roy,..." *Phil. Trans. R. Soc.*, 129 (1839): 39-81; *More Letters*, II, 171-93; *Life and Letters* I, 361-64; and Jamieson, "On the Parallel Roads of Glen Roy, and Their Place in the History of the Glacial Period," *Q. Jl geol. Soc. Lond.*, 19 (1863): 235-59.

270 To Madam [?Lady Dorothy Fanny	[?1861]	ALS; 8 x5; B D25.132
Walpole NEVILL] ² ; Down (type 4)		4p.

Dr. [John] Lindley has suggested corr. to CD as source of orchids; is preparing "small work" on orchids [i.e. *Fertilisation of Orchids* (1862)]; send two or three flowers of "any member of the great Tribe of Arethuseae," including "Limodoridae, Vanillidae &c.", especially "Mormodes & Cycnoches"; expects difficulty in shipping of delicate pollen masses; also wants Bonatea, Masdevillia, and "any Bolbophyllum with its lower lip or Labellum irritable"; wants "any genus with any remarkable peculiarity"; send large parcels to "C. Darwin care of the Down Postman Bromley Kent' "; gives packing instructions.

Other Descriptive Information

1. This was the only November during which CD was preparing a "small work" on orchids; see "Darwin's Journal," 15.
 2. Nevill was the only woman (note the "madam") acknowledged by CD in the orchid book; see Darwin, *Fertilisation of Orchids* (1862), 158n. The letter refers to the corr. as "your Ladyship"; Nevill was the daughter of an Earl and the wife of another relative of a peer.
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271 To?; Down (type 4) [ca. 1861-1869] ALS; 8 x5; B D25.98
1p.

Thanks for proofs; cannot form any judgment, but corr.'s view is ingenious; if accepted, it will be great step in knowledge of glacier movement.

Other Descriptive Information

1. Years determined by Down address variant used.

272 To [Peter Martin DUNCAN]; Down (type 4) [ca. 1861-1869] LS; 8 x5; 3p. B D25.77

C[harles] Lyell says corr. pleased to receive coral specimens from Keeling Islands; will send some via Geolog[ical] Soc[iety of London]; once had more; habitat and station for each specimen is given; collected all but one specimen himself; has a few notes about soft parts of corals.

Other Descriptive Information

1. Years determined by Down address variant used.

273 To?; Down (type 4) [ca. 1861-1869] ALS; 8 x5; B D25.150
3p.

Thanks for note and specimens; subject is worthy of a paper; hopes corr. has kept CD's queries; glad to hear about number of moults, but *color* is chief interest; tell briefly of differences of plumage of male, female, and young in two or three breeds, so CD can judge how far to pursue subject; Pile Game [a fighting fowl] would be good case; wants from breeders information of proportions of sexes of ducks and fowls; when at Manchester, find age of peacock when topknot appears; sorry corr. is ill.

Other Descriptive Information

1. Years determined by Down address variant used.

274 From Cha[rles] LYELL; no location [1862 March] ALS; 7 x4.5 B D25.L
4p.

Has the shingles; thanks for letter; envies CD's being almost done [with Darwin, *Fertilisation of Orchids* (1862)]; is working with printer himself; has been thinking about Glen Roy, needs CD's explanation; height of cols determines levels of [Glen Roy] shelves, not the variable heights of ice blockages; sees how ice dam caused lowest shelves in Glen Roy and Glen Spean, then another ice dam in Glen Roy raised waters even higher, but does not know how two ice blockages in one glen can cause two shelves, since lower would be destroyed when new ice blockage arrived, and since

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disappearance of old blockage before new blockage arrived would leave lower, formerly blocked col open for drainage; marine theory avoids this because top shelf is made first; return this note with answer, so Lyell can send it to [Thomas Francis] Jamieson; CD's brother [Erasmus Alvey Darwin] told of illness of CD's child [Henrietta Emma Darwin Litchfield].

Other Descriptive Information

1. This is clearly the letter which prompted the reply which follows below.

275 To [Charles] LYELL; Down	[1862] April 1st	ALS; 8 x6.5 B D25.L 3p.
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Printed in full, with minor changes: *More Letters*, II, 192-93 (letter 530).

276 To [Philip Lutley] SCLATER; Down (type 4)	[1862] May 12th [end. May 1862]	ALS; 8 x5; B D25.S 3p. and end. [6105/ C. Darwin/ May 1862/ Abt. Peacock]
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[Abraham Dee] Bartlett says that "Japanned Peacock" (Sclater's name for which [*Pavo nigripennis*--PTC] CD has forgotten) has appeared among ornithologist [Hudson] Gurney's birds; write to Gurney for particulars, or give Gurney's address to CD; wants to know "whether his birds appeared pure & whether any Japanned Peacocks lived anywhere near, so that there could have been a recent cross." ¹

Other Descriptive Information

1. See Darwin, *Variation under Domestication* (1868), I, 290-92.

277 To [Philip Lutley] SCLATER; Down (type 4)	[1862] May 14th [end. May 1862]	ALS; 8 x5; B D25.S 3p. and end. [C. Darwin/ May 1862/ Abt Birds]
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Thanks for two notes; ask [Hudson] Gurney if he had any white or pied birds when *P[avo] nigripennis* appeared; in two of three cases mentioned by Sir R[obert] Heron [in "Notes," *Proc. zool. Soc. Lond.*, 3 (1835): 54-55], there were whites and piers in lot; has four cases, thinks *P.*

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nigripennis a variety, no more surprising in origin than Himalayan rabbit; ¹ if [Zoological] Gardens [of Zoological Society of London] have a white and a common peacock, cross them to see if *P. nigripennis* appears; "the effects of crossing are sometimes marvellous in bringing out old & lost characters or in producing new characters".

Other Descriptive Information

1. See Darwin, *Variation under Domestication* (1868), I, 108-11.

278 To [George Henry Kendrick] THWAITES; Down (type 4)	[1862] June 15th [end. 1862]	ALS; 8 x5; B D25.TH 4p., end. [1862]
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Read Darwin, "On the Two Forms, or Dimorphic Condition, in the Species of *Primula*,..." *J. Linn. Soc.* [(Botany), 6 (1862): 77-96]; Dr. [Hugh Algernon] Weddell says cinchona presents same case of some trees with long pistils and some with short; there must be reciprocal fertilization between two forms; please check this claim on Ceylon cinchona, using artificial fertilization if necessary to cross the two forms and produce strong plants; no need to castrate; suggests this because "the growth of Cinchona is so important for mankind [as source of quinine]"; is still working at this subject; such dimorphism seems common with Rubiaceae [family of cinchona and madder]; would like analogous cases.

279 To W[illiam] B[ernhard] TEGETMEIER; Down (type 4)	1862 June 20th	ALS; 8 x5; B D25.23 3p.
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Testimonial, letter of recommendation for position of curator for Hartley Institution. Excerpts printed: *Life and Letters* II, 53.

280 To [George Henry Kendrick] THWAITES; Down (type 4)	[1862] June 20th [end. 1862]	ALS; 8 x5; B D25.TH 4p., end. [1862]
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Wrote to Thwaites on *Primula* [see CD to Thwaites, June 15, 1862, above] two days before receiving Thwaites's letter of May 15; is glad to hear of *Sethia*; *Menyanthes* is dimorphic, so is not surprised at *Limnanthemum*; compare by weight the output of two forms of *Limnanthemum*; on Malpighiaceae, mark the imperfect flowers, see if they set seed, see if they are closed, and see "whether the pollen-tubes are emitted from the pollen-grain within the anther & then penetrate the stigma", as is the case with imperfect flowers of *Viola* and *Oxalis*; thanks for "your Governor's

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letter"; "I suspect the dimorphism of *Primula*, is often, (though not at all necessarily) the high-road to dioeciousness." ¹

Other Descriptive Information

1. See Darwin, *Different Forms of Flowers* (1877), 116 and 122.

281 To C[harles] LYELL; 1. Carlton Terrace/ Southampton	[1862] Aug. 22d. [end. Augt.24.1862; pmk. AU23/62]	ALS; 8 x5; 9p. and fragment of env., add. [Sir C. Lyell/ Albion Hotel/ Freshwater Gate/ Isle of Wight.], end. [C. Darwin./ Augt.24.1862/ Longevity of species/ in mammalia & in plants]	B D25.L
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Printed, with minor changes: *Life and Letters* II, 387-89. At beginning of letter is: is answering [Mary Elizabeth Horner] Lyell's letter of sympathy [for scarlet fever in family] to William [Erasmus Darwin]; Emma [Wedgwood Darwin], Lenny [i.e. Leonard Darwin], and Horace [Darwin] are still ill; will go to Bournemouth soon to be near other children; the [John William] Lubbocks have home in Chiselhurst; is glad Glen Roy is settled; moraines opposite L[och] Treig are important, as is slope inland, if proved. ¹ p. 387, line 2, add: "I fancy [Thomas Henry] Huxley [i.e. *Evidence as to Man's Place in Nature* (London: Williams and Norgate, 1863)] will be out sooner"; [Joseph Dalton] Hooker says book will be interesting. p. 388, line 5, add: "What an unblushing man he must be to lecture thus after abusing me so & never to have openly retreated, or alluded to my Book [Darwin, *Origin* (1859)]." p. 388, last line, add: cannot remember reason for not adopting fully and quoting Lyell's axiom of 1832. At end of letter is: Lyell's axiom may be true; remembers "considerable perplexity on subject"; thinks mammals and molluscs are "too remote from each other for fair comparison"; is tired; regards to wife and to work.

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Also printed, with minor changes: *More Letters*, I, 203 (letter 140). The *Life and Letters* version is more complete and more accurate.

Other Descriptive Information

1. See *Life of Lyell*, II, 358.

282 To Ch[arles] LYELL; Down (type 2)	[1862] Oct. 1. [end. Sept 1. 1862]	ALS; 8 x5; 4p. and fragment of env., add. [Sir Ch. Lyell/ 53 Harley St/ London W.], end. [C. Darwin/ Sept 1. 1862/ Dr Falconer on Elephants/ & origin of species by/ variation/ Elephants failing/ group.]	B D25.L
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Printed, with minor changes: *Life and Letters* II, 389. At beginning of letter is: discussion of the " `Re`gne Humain' " is in Isid. G. [i.e. Isidore Geoffroy Saint-Hilaire], *Hist. Nat. Générale* [i.e. *Histoire Naturelle Générale des Règnes Organiques, Principalement Étudiée chez l'Homme et les Animaux*, 3v. (Paris: V. Masson, 1854-1862)], II, chap. 7, 167; is Lyell done with [Friedrich] Rolle, [?C. Darwin's *Lehre von der Entstehung der Arten in Pflanzen- und Theirreich in Ihrer Anwendung auf die Schöpfungsgeschichte Dargestellt und Erläutert...* (Frankfurt am Main: J. C. Hermann, 1863)]?

¹ At end of letter is: enjoyed chat with Lyell.

Other Descriptive Information

1. Apparently CD received an advance copy of Rolle's book, for he cited it with a publication date of 1862, not 1863; see Darwin, *Variation under Domestication* (1868), II, 308n.

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283 To?: Down (type 4) [1862] ALS; 8 x5; B D25.200
3p.

Asks three questions about cases for plants, including stove plants; each question is answered in another hand than that of CD in spaces provided in letter for answers; concerning sizes, capacities, and prices of cases.

Other Descriptive Information

1. This year written in pencil in what appears to be a contemporary hand at top of first page of manuscript letter.

284 To [Henry Walter] BATES; Down [ca. 1862-1863] June 11th ALS; 5.5 x3.5 B D25.247
(type 2) [wmk. 1859] 2p. (enclosure
wanting)

Answer question contained in the enclosed, written by CD's brother-in-law [Hensleigh Wedgwood] who studies and writes on language; hopes Bates's book progresses; ¹ is ill.

Other Descriptive Information

1. *The Naturalist on the River Amazons...*, 2v. (London: John Murray, 1863). Years for this letter's date were determined from date of publication of this book, as well as of Hensleigh Wedgwood, *On the Origin of Language* (London: [Bungay], 1866).

285 To [Thomas Campbell] EYTON; [1862-1866] ALS; 8 x5; B EY83
Down (type 4) 2p.

Thanks for facts about breeding; wants to be told of any other striking cases; thanks also for promise to measure webs of feet of otterhounds; compare them with measures of foxhounds or harriers; has no opportunity to see dogs. ²

Other Descriptive Information

1. Down address variant used to set lower endpoint, since this type of letterhead was introduced in mid-1861. Upper endpoint determined by date at which CD wrote last chapter of book that discusses webbed feet in dogs; see "Darwin's Journal," 17.
2. Eyton's measurements are discussed in Darwin, *Variation under Domestication* (1868), I, 39-40.

286 To [?John Joseph BRIGGS] ²; Down [?1863] ALS; 8 x5; B D25.141
(type 4) 3p.

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F[rançis Trevelyan] Buckland says corr. might help CD; remembers article in *Field*, most likely by corr., on regrowth of fins of fish; wants citation and details of the case; wishes to quote case.³

Other Descriptive Information

1. Chapter of CD's book which refers to regeneration of dorsal fins in fish was written between Jan. 23 and April 1, 1863. See "Darwin's Journal," 16.
2. See Darwin, *Variation under Domestication* (1868), II, 15-16.
3. There is a two-page scrap which is catalogued with this letter; it reads: "communicated by Mr. A. [Fonblanque?] of the British Consulate at Alexandria to Mr. Darwin." There is more text not worth abstracting.

287 To [Charles] LYELL; Down [1863 February] ALS; 7.5 x5; B D25.L
3p.

Has just received "the great book [i.e. Lyell, *The Geological Evidences of the Antiquity of Man...* (London: John Murray, 1863)]"; may go to London in evening if not ill; ¹ will visit Lyell some morning; has skimmed pages on species; is glad Lyell discusses many of the "most important" points "not generally touched on by others. I have read last chapt[er] with very great interest. ² By Jove how black [Richard] Owen will look"; Lyell is too civil to Owen; "I am getting more savage against him, even than [Thomas Henry] Huxley or [Hugh] Falconer. He ought to be ostracised by every Naturalist in England"; book will "give the whole subject of change of species an enormous advance."

Other Descriptive Information

1. Top of first page carries in pencil, perhaps as an endorsement by Lyell, the date "4 Feby 1863". CD was in London from February 4 to February 14, 1863; see "Darwin's Journal," 16. Date of publication of Lyell's book also agrees with a date of February, 1863.
2. On contents of last chapter of the book and Lyell's feeling about it, see *Life of Lyell*, II, 353.

288 To [Charles] LYELL; Down (type 2) [1863 February] 17th [wmk. Als; 7.5 x5; B D25.L
1860] 3p. (enclosure
wanting)

Printed in full, with minor changes: *More Letters*, I, 236 (letter 162).

289 To C[harles] LYELL; Down [1863] March 6th [end. Partly ALS, B D25.L
March 6./ 1863; pmk. MR 6/ partly LS; 8
63] x6.5 12p. and

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fragment of
 env., add. [Sir
 C.../ 53.../
 Lon...], end.
 [C. Darwin/
 March
 6./ 1863/
 Meridional
 belts of
 warm &
 cold/ will not
 explain all the
 phenomena/ of
 distributions
 of species./
 8. Selection
 explaining
 adapta-/tions
 not enlarged
 enough/ More
 examples of
 rudiments./ 9.
 The fewness
 of individuals/
 in islands
 prevents/
 transmutation]

Printed, with minor changes: *Life and Letters* III, 11-12. At beginning of letter is: is disappointed to have put off [a visit to] Lyell, because CD would have talked over "many points & [Richard] Owen's false letter"; Emma [Wedgwood Darwin] wants CD to stop work and visit Malvern [water cure establishment] for two months; thanks for note; keep [James Dwight] Dana, ["On the Higher Subdivisions in the Classification of Mammals," *Am. J. Sci. (Silliman's J.)*, 35 (1863): 65-71]. p. 12, line 14, add over seven pages of comments upon passages from [Lyell, *The Geological Evidences*

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of the Antiquity of Man... (London: John Murray, 1863], including, *inter alia*, the following: thinks glacier chapters are "almost the best in the book"; closing pages of chapter 19 are "magnificent"; "I think this discussion has interested me almost more than the antiquity of man. The gloss of novelty was worn off the latter, yet I have been *deeply* struck by the effect of the agglomerated evidence"; "It is of little consequence, but [Joseph Dalton] Hooker published his Essay [i.e. "Introductory Essay," *The Botany of the Antarctic Voyage of H. M. Discovery-Ships Erebus and Terror in the Years 1839-1843...*, Pt. III: *Flora Tasmaniae*, 2v. (London: Lovell Reeve, 1860), I, i-cxxviii] a month after the Origin [i.e. Darwin, *Origin* (1859)]... I asked him"; "Who is [Nils Gabriel Sefström?]" ¹ p. 12, line 16, add: wants [Richard] Owen's paper on the Aye Aye [i.e. "On the Aye-Aye,..." *Trans. geol. Soc. Lond.*, 5 (1866): 33-101]; "I am sorely tempted to expose in Athenaeum what rubbish Owen has written on the subject."

Other Descriptive Information

1. Some of the other comments are paraphrased in the endorsement. CD's comments discuss the following additional persons: [John] Evans; [Bartholomew James] Sullivan; [James] Smith of Jordanhill; [John Francis Julius von] Haast; [Andrew Crombie] Ramsay; [John William] Lubbock, [Baron Avebury]; and [Christian Friedrich Hermann] von Meyer.

290 To [Charles] LYELL; Down (type 2)	[1863] March 12th-March 13th [end. March 14 1863]	ALS; 8 x6.5 8p. and fragment of env., add. [Sir...], end. [C. Darwin/ His doctrine not so/ Lamarckian as I make it./ March 14 1863]	B D25.L
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Printed, with minor changes: *Life and Letters* III, 13-14. p. 14, line 21, add: last night Henrietta [Emma Darwin Litchfield], a "first rate critic", said: " `Is it fair that...Lyll...calls your theory a modification of [Jean Baptiste Pierre Antoine de Monet de] Lamarck's? Why is it more a modification of him, than of any one's else [sic]' "; her criticism is appropriate, but confidential; "I

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have more trust in your judgment than in my own, so I hope you may be right, as far as mere policy is concerned, in your very gentle statement of your belief"; thanks about Aye-Aye paper; ¹ has written to "Sir Henry". p. 14, line 23, add: is interested in "Athenaeum controversy"; ² [William Henry] Flower puts well how [Richard] Owen "has falsely dragged in size of brain"; Lyell's answer good, except too civil in saying that Owen "must have forgotten what he said in Annals; ³ it was a brazen lie, & ought not, I think, to have been treated so delicately." At end of letter is: has reread Lyell's letter; is ill; starts for [hydropathy at] Malvern after Easter holidays." ⁴

Other Descriptive Information

1. See preceding letter, above.
2. See *Life and Letters* III, 8, 8n, and 9-10.
3. "On the Cerebral Characters of Man and the Ape," *Ann. Mag. nat. Hist.*, 7 (1861): 456-58.
4. CD visited Malvern from September 2 to October 14, 1863; see "Darwin's Journal," 16.

291 To C[harles] LYELL; Down (type 2)	[1863] March 17th [end. March.17.1863; pmk. 63]	ALS; 8 x6.5 8p. and fragment of env., add. [Sir C. Lyell/ 53. Harley St/ London W.], end. [C. Darwin/ on Lamarck-- on other au-/ thors claims for notice in/ 'Antiquity of Man'/ March.17.1863	B D25.L
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Printed, with minor changes: *Life and Letters* III, 15-17. p. 16, line 2, add: is astounded and grieved at part of Lyell's letter to [Joseph Dalton] Hooker about conduct of [Hugh] Falconer in "the monkey-case"; early part [of Lyell, *The Geological Evidences of the Antiquity of Man*,... (London: John

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Murray, 1863)] had too many references to [Lyell,] *Principles [of Geology...*, 3v. (London: John Murray, 1830-1833)]; is weak. p. 17, line 1, change "forgotten)," to "forgotten, Count Laperda or Saperde or some such name [i.e. Louis Charles Joseph Gaston, Marquis de Saporta)],". p. 17, line 8, add: [John William] Lubbock [Baron Avebury] is not satisfied with [Lyell's] notice of his Somme paper ["On the Evidence of the Antiquity of Man, Afforded by the Physical Structure of the Somme Valley," *Nat. Hist. Rev.*, 2 (1862): 244-69].¹ p. 17, line 10, add: Hooker forgets "that he told me himself [the] date of publication of his Essay."² p. 17, line 12, add: [Hooker] has more plants from Cameroon Mountains and will discuss mundane cold period. p. 17, line 13, missing element is "[Richard] Owen's [paper on the] Aye-Aye".³ p. 17, line 17, add: "& I had written *so good a letter* (!) all ready, with a blank for his [i.e. Owen's] sentence claiming more than he had any right to; but I could pick out no such sentence. Hooker says he so despises him that he cannot hate him: I do not know whether this [is] a right frame of mind, but by Jove it is not my frame of mind." At end of letter is: agrees about [Thomas Henry] Huxley and "the Review [i.e. *Natural History Review: A Quarterly Journal of Biological Science*]", which is excellent nevertheless;⁴ as CD has spoken against entomologists, see notice by CD on [Henry Walter] Bates's paper ["Contributions to an Insect Fauna of the Amazon Valley," *Trans. Linn. Soc. Lond.*, 23 (1862): 495-566] on mimetic resemblances.⁵

Other Descriptive Information

1. The notice is probably Lyell, *The Geological Evidences of the Antiquity of Man...* (London: John Murray, 1863), 19n.
2. See CD to Lyell, March 6, [1863], above.
3. See: *ibid.*; and preceding letter, above.
4. See *Life of Lyell*, II, 366.
5. See *Nat. Hist. Rev.*, 3 (1863): 219-24.

292 To [William Darwin] FOX; Down (type 4)	[1863]	AL (mutilated); 8 x5; 3p.	B D25.48
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Glad to hear authentic particulars and Fox's own case; mistakenly read 23 for 13 lambs and supposed that breeding was over two seasons; shows preponderance of one color over other; has exzema on face, so may postpone trip to Malvern.

Other Descriptive Information

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1. Letter to Fox dated March 9, 1863, and preserved at Christ's College, Cambridge, mentions the birth of 23 lambs and trip to Malvern. Another letter to Fox dated May 23, 1863, preserved in same place, mentions that eczema is better. Particulars in this letter are in Darwin, *Variation under Domestication* (1868), II, 30-31; this was written in early 1863, according to "Darwin's Journal," 16.

293 To [George Henry Kendrick] THWAITES; Down (type 4)	[1863]	ALS; 8 x5; B D25.TH 4p.
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Thanks for specimens; *Sethia* is a "beautiful case" of reciprocal dimorphism; could not compare pollen because long-styled anthers were knocked off; long stamens dust the bodies of insects visiting these flowers, while short stamens dust proboscis; unequal lengths of alternate stamens insures that pollen on the proboscis is from more than a pair of anthers, as seen by CD in *Lythrum*; Ceylonese Lythraceae, if any, will show three forms, with two kinds of pollen in each flower; wants more facts and specimens; thanks for *Limnanthemum*, a "very pretty case";² has hothouse for growing it, but needs seeds; [in margin--PTC] flower with different color in each half anther, if not due to abortion, indicates dimorphism or trimorphism; wants to experiment on all orders; presumes that *Sethia* is a tree; will send soon a "little paper" on dimorphism of *Linum* ["On the Existence of Two Forms, and on Their Reciprocal Sexual Relation, in Several Species of the Genus *Linum*," *J. Linn. Soc. (Botany)*, 7 (1864): 69-83]; thanks for fact concerning *Discospermum*;³ thanks for specimens of galls, which interest CD, who is ignorant of them; almost experimented once upon galls; "It is truly wonderful what a change a little poison or irritation has effected, & effected in so diversified a manner";⁴ thinks [?galls on] specimens of *Gomphia* and *Lesemia* result from insect puncture or disease, not from sports or bud variation.⁵

Other Descriptive Information

1. Year written on top of first page of original in what appears to be a contemporary hand--perhaps an endorsement.
 2. See Darwin, *Different Forms of Flowers* (1877), 116, 122, and 249. See also CD to Thwaites, June 20, [1862], above.
 3. See Darwin, *op. cit.*, 286.
 4. See Darwin, *Variation under Domestication* (1868), II, 282.
 5. CD here refers to *Lesemia coccinea*, now known as *Salvia microphylla* (Kunth). These generic names were identified by Professor Joseph Ewan, Tulane University.
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294 To [Charles] LYELL; Down (type 2) [1863] ALS; 4p. @ 7 B D25.L
3/4 x5, 2p. @
8 x5; 6p.

Printed, with minor changes: *Life and Letters* III, 20-21. At end of letter is: invites Lyells to Down; has had eczema; book by [Henry Walter] Bates [i.e. *The Naturalist on the River Amazons...*, 2v. (London: John Murray, 1863)] is "capital".

Other Descriptive Information

1. Year written, perhaps in endorsement, at top of first page of original. Year of publication of book by Bates supports this year.

295 To [George Henry Kendrick] [1863] ALS; 8 x5; B D25.TH
THWAITES; Down (type 4) 4p.

Thanks for *Limnanthemum* seeds; ¹ knows about conjugation of algae from pamphlet sent years ago by Thwaites which records a double embryo in *Fuchsia* to which CD has recently referred; ² thanks for specimen of and information on *Cassia*, which has curious flower; have [Rev. S. O.] Glenie see how insects visit it and if pistil moves during inflorescence; can not send *carte de visite*, since none has ever been made of CD; sends instead a "poor small photograph" taken by CD's son [?Leonard Darwin].

Other Descriptive Information

1. Year written on top of first page of original in what appears to be a contemporary hand--perhaps an endorsement. For CD's request for the seeds, see CD to Thwaites, March 30, [1863], above.
2. See: Thwaites, "On Conjugation in the *Diatomaceae*," *Ann. Mag. nat. Hist.*, 20 (1847): 9-11, 343-44; and *idem*, "Further Observations on the *Diatomaceae*; with Descriptions of New Genera and Species," *ibid.*, 1 (1848): 161-72. CD possessed and quoted from the latter article; see: Vorzimmer, *Reprint Catalogue*, item 25; and Darwin, *Variation under Domestication* (1868), I, 391 and 391n.

296 To [Charles] LYELL; Down (type 4) [1863] ALS; 8 x5; B D25.L
4p.

Printed, with minor changes: *More Letters*, I, 243 (letter 171). At beginning of letter is: thanks for letter; congratulations on finding Arctic shells; ¹ [Edward Bissell] Hunt sent copy of his paper ["On the Origin, Growth, Substructure and Chronology of the Florida Reef," *Am. J. Sci. (Silliman's J.)*,

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35 (1863): 197-210];² was struck by it, but [James Dwight] Dana has reservations; "poor Dana" must restrict his mental exertions; glad that Antiquity [i.e. Lyell, *The Geological Evidences of the Antiquity of Man...* (London: John Murray, 1863)] sells well, "but if it gets another edition of 'Origin' [i.e. Darwin, *Origin*] I shall not be grateful; for I dread the very thought of that job." line 9, add: CD's sister [Emily] Catherine [Darwin Langton] will marry [Charles] Langton [on October 8, 1863], who had been married to [Charlotte Wedgwood Langton], sister of Emma [Wedgwood Darwin]; a good match.³ At end of letter is: regards to wife; "I answered the Manchester Pigeon man for you."

Other Descriptive Information

1. Year written in pencil on top of first page of original in what appears to be a contemporary hand--perhaps an endorsement. On arctic shells, found in 1863, see *Life of Lyell*, II, 379-80.
2. See Vorzimmer, *Reprint Catalogue*, item 290.
3. Cf. *Emma Darwin*, II, 202-03.

297 To [George Henry Kendrick]	[1863]	Copy of L; B D25.TH
THWAITES; Down Bromley Kent, S.E. ²		7.25 x4.5 4p.

Wants cases of bud variations, called sports by gardeners, such as "moss-rose in Provence", in which leaf bud assumes new character; asks this because Sir R[obert Hermann] Schomburgk says flowers introduced to St. Domingo [i.e. Santo Domingo, Dominican Republic] from warm temperate regions often had such bud variations;³ wrote "some time ago" about dimorphic cinchonas,⁴ and is now more certain of this, with some plants " *absolutely* sterile" with their own form of pollen; compare size of pollen of two Ceylonese genera mentioned by Thwaites, or send dried specimens; is "hard at work" on Darwin, *Variation under Domestication* [1868].

Other Descriptive Information

1. Year written on top of first page of original in an apparently contemporary hand. See also note 4, below.
2. This appears to be a handwritten facsimile of Down (type 4).
3. See Darwin, *Variation under Domestication* (1868), I, 373-87 and 401-11, esp. 408.
4. See CD to Thwaites, June 15, [1862], above.

298 To?: Down (type 4)	[?1864]	LS; 7 x4.5 4p. B D25.44
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Corr. will see tubes if he places pollen on stigma, places pistil under strong microscope twelve to eighteen hours later, and tears up stigma; once one knows appearance of tubes with plant like geranium, one never mistakes them; has been in bed for six months, so cannot exchange orchids; Catasetums hard to exchange; Messrs [James] Veitch [& Sons] said they were not valuable enough to be marketable; some bi-generic crosses have been made, but seeds do not germinate.

Other Descriptive Information

1. Down address variant used limits endpoints to 1861 and 1869. According to "Darwin's Journal," 15-18, esp. 16, CD's only six-month illness during this period was from October 14, 1863, to April 13, 1864.

299 To [David J. BROWN] ¹; Down (type 1864 Ap 18. LS; 7 x4.5 4p. B B813
4)

Thanks for letter and MS; is ill and must be brief; corr.'s paper is "striking & original", but "all the Journals have so often discussed the `Origin of Species' that I do not believe any of them wd insert any other paper on the subject"; honors men like corr. who spend "much time in labour" and yet find time to "acquire extended knowledge & follow out original trains of thought"; returns MS.

Other Descriptive Information

1. This letter is part of the David J. Brown Papers, which were acquired in a single lot.

300 To Fanny [i.e. Frances Mackintosh [1864] ALS; 8 x5; B D25.158
WEDGWOOD]; Down 3p.

Sends condolences [on death of her son, James Mackintosh Wedgwood]; remembers corr.'s kindnesses at Malvern with [death of] "poor Annie" [i.e. Anne Elizabeth Darwin]; regards to [husband] Hensleigh; write back when [daughter] Hope [Elizabeth Wedgwood] writes to [CD's daughter] Etty [i.e. Henrietta Emma Darwin Litchfield].

Other Descriptive Information

1. James Mackintosh Wedgwood died in 1864; see *Emma Darwin*, I, xxvii.

301 To [William] BOWMAN; Down (type [?1864] LS; 8 x5; 2p. B D25.191
4)

Thanks for note; will attend to information when CD publishes book [? *Expression of the Emotions* (1872)]; thanks for kindness to son; illness delayed writing.

Other Descriptive Information

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1. Down address variant used determines endpoints of 1861 and 1869. Of CD's two long illnesses during this period, only that from October 14, 1863, to April 13, 1864, would provide CD with excuse for not writing until July.

302 To Asa GRAY; no location	[1864 September 6] [end. Sept.6.1864.--/ Sept. 28th. 64.]	Address leaf B D25.208 only; 8 x6.5 2p., add. [Prof Asa Gray/ Cambridge/ Massachusetts/ U. States], end. [Handwriting of/ Charles Darwin, Scit./ Sept.6.1864.--/ Sept. 28th. 64.]
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303 To [?Charles Victor NAUDIN] ¹ ; Down (type 4)	[?1864]	LS; 8 x5; 3p. B D25.239 (enclosure wanting)
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Thanks for letter, photograph, and congratulations; encloses the only photograph of CD available, one taken by son [?Leonard Darwin]; thanks for reference to "the Comptes Rendus" on subject of special interest about which CD has few authentic facts; glad corr. is still working on Cucurbitaceae; recently, has quoted extensively from corr.'s papers on this "order [sic; family]" in work being prepared on variation; ¹ will send soon a paper on *Lythrum* [Darwin, "On the Sexual Relations of the Three Forms of *Lythrum salicaria*," *J. Linn. Soc. (Botany)*, 8 (1865): 169-96].

Other Descriptive Information

1. See Darwin, *Variation under Domestication* (1868), I, 357-60, for extensive quotation of Naudin on Cucurbitaceae. This chapter was written in late 1864; see "Darwin's Journal," 16-17.

304 To [Charles] LYELL; Down (type 4)	[1865] Jan 22	LS; 8 x5; 8p. B D25.L
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Printed in full, with minor changes: *Life and Letters* III, 32-34. p. 34, line 2 after signature, change "address." to "Address & tell him about Sexual Selection."

305 To [John Edward] GRAY; Down (type 4) [1865] Feb 21 LS; 8 x5; 1p. B G784

Thanks for congratulations; ¹ sorry that corr. is ill; corr. looked "far from well" when CD last saw him.

Other Descriptive Information

1. The congratulations were probably for CD's Copley Medal of the Royal Society of London, awarded November 30, 1864; see "Darwin's Journal," 16n. Perhaps the illness of Gray was the cause of Gray's belatedness in congratulating CD.

306 To [Charles] LYELL; Down (type 4) [1865] Feb 21 LS; 8 x5; 4p. B D25.L

Printed in full, with minor changes: *Life and Letters* III, 35-36. At end of letter is: regards to [Mary Elizabeth Horner] Lyell from [CD's wife and amanuensis for this letter, Emma Wedgwood Darwin].
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Other Descriptive Information

1. This final remark is in Emma Darwin's hand and is signed with her initials.

307 To [Charles] LYELL; Down (type 4) [1865] March 25th [wmk. 1860] ALS; 4p. @ B D25.L
8 x5, 1p. @
7 3/4 x5; 5p.
(enclosure
wanting)

Thanks for enclosed correspondence; ought CD to identify Miss Buckley as source about roosting in trees--the only new point--or would "received through Sir C. Lyell" be adequate; pigeons in upper Egypt settle in flocks on low trees, but not on palms; "the duke [i.e. George Douglas Campbell, Duke of Argyll] making such a point as this rests on the Lamarckian belief that everything in structure & habits *must* change; ¹ I have put the case that such a change, if not selected or induced by compulsion, would be a downright difficulty on my notions"; more curious case is that of domestic pigeons which resemble a flock of gulls when they settle upon and float down the Nile to drink where the banks are perpendicular; "I have read most of H[erbert] Spencer's *Biology* [i.e. *The Principles of Biology*, 2v. (London: Williams & Norgate, 1864-1867)] & agree with you. Some of his remarks

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are very clever & suggestive, but somehow I seldom feel any wiser after reading him, but often feel mistified [sic]"; Spencer dictates, so he has "detestable" style; [Joseph Dalton] Hooker thinks Spencer's last number is best ever written; has finished Elements [i.e. Lyell, *Elements of Geology*, 6th ed. (London: John Murray, 1865)], was struck by Lyell's "summing up on the Laurentian stages"; health still poor, but works two hours per day on "my `Domesticated Animals & Cultivated Plants [i.e. *Variation under Domestication* (1868)]'."

Other Descriptive Information

1. See Campbell, "Opening Address," *Proc. R. Soc. Edinb.*, 5 (1866): 264-92, esp. 281. See also *Life and Letters* III, 31-34.

308 To J[ames] P[hilip] Mansel WEALE; Down (type 4)	[1865] May 6 [end. 1865; pmk. MY 6/ 65]	LS; 8 x5; 4p. B D25.250 and env., add. [J. P. Mansel Weale Esq/ (crossed out-- PTC) Port Elizabeth/ (crossed out-- PTC) Algoa Bay/ Cape of Good Hope/ (added in margin--PTC) 4/ (added in margin--PTC) Adelaide], end. [First letter from C.D./ 1865 in answer to one/ from (P.L.?) 1864]
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Thanks for tracings and letter of February 19; is ill; case of mule is interesting, but CD has heard of similar; the only aids in naming Cape orchids are "extremely expensive illustrated works"; cannot

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suggest any good zoological works either; "Few foreign countries are so well off botanically as the Cape will be with [William Henry] Harvey's work [viz. Harvey and Otto Wilhelm Sonder, *Flora Capensis: Being a Systematic Description of the Plants of the Cape Colony, Caffraria, & Port Natal*, 3v. (Dublin: Hodges, Smith, and Co., 1859-1865)"]; do not study fertilization of orchids, since enough has been written on it, but see Rob[er]t Brown, ["On the Organs and Mode of Fecundation in Orchideae and Asclepiadeae"], *Trans. Linn. Soc. Lond.*, [16 (1833): 685-745], as there is a good deal to be learned on fertilization of this genus; has seen an American hymenopter with pollen masses of *Asclepias* [milkweed] covering its tarsi, but does not know how pollen is placed upon stigma; research on caverns of S[outh] Africa will be interesting; must bring or send specimens to Europe in order to name them.

309 To?; Down (type 4)	[1865]	LS; 6 3/4 x4.5B D25.228 2p.
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Thanks for note; is "much better", but is "far from strong" and is "living in my bedroom"; was stupid about the books; 1843 volume is right; have ready by Thursday morning the volume for 1844 containing on p. 295 a paper by [René Joachim Henri] Dutrochet [i.e. "Recherches sur la Volubilité des Tiges de Certains Végétaux et sur la Cause de ce Phénomène," *C. r. hebd. Séanc. Acad. Sci., Paris*, 19 (1844): 295-303]; will then return the wrong volume.

Other Descriptive Information

1. Date determined by Sydney Smith, St. Catharine's College, Cambridge, based upon state of CD's health; see "Darwin's Journal," 16-17.

310 To?; Down (type 4) NOT FILMED	[1865]	ALS; 8 x5; B D25.101 3p.
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Thanks for copy of corr.'s "new work on the `Races of the Old World' "; thinks view on correlation of color and constitution, expressed in remarks on p. 388, is probable; a year ago, through director general of medical department of British Army, CD circulated printed questions which asked about correlation of tropical diseases with color of hair and skin of victims to all regimental surgeons in the tropics; doubts that responses will be reliable.

Other Descriptive Information

1. CD sent out the questionnaire mentioned here in May, 1864; see *Life and Letters* III, 90.

311 To [Philip Lutley] SCLATER; Down (type 4)	[1866] Jan 6 [end. Jan. 1866]	LS; 8 x5; B D25.S 3p. and end.
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[8361/ C.
Darwin/ about
China Ducks/
Jan. 1866] ¹

[Robert] Swinhoe writes to CD of domestic Chinese duck perhaps descended from *Anas poeciloryncha* [spot-billed duck from India]; is this a species distinct from *A. boschas* [common wild duck, or mallard]; what are differences; does it have curled tail feathers and wing marks, and is it a native of China; "After nine months inaction from illness, I have just begun to do a little work".

Other Descriptive Information

1. Alongside endorsement, there are some penciled notes by Sclater, mostly illegible, but with "not at all like *A. boschas*" very clear.

312 To [Charles] LYELL; Down (black border) ¹ [1866] Feb 7. [wmk. 1860] LS (postscript B D25.L in CD's hand);
7 x4.5 10p.

Printed in full, with minor changes: *More Letters*, I, 476-78 (letter 363). p. 477, line 26, add: CD and Emma [Wedgwood Darwin] send love to Lady [Mary Elizabeth Horner] Lyell. p. 478, line 2, change "S. on Himalaya" to "S. & on Himalaya".

Other Descriptive Information

1. CD's sister, Emily Catherine Darwin Langton, died on February 2, 1866; see "Darwin's Journal," 17.

313 To [Charles] LYELL; Down (black border) ¹ [1866] Feb. 15th--Thursday LS; 7 x4.5 6p. B D25.L

Printed in full, with minor changes: *More Letters*, I, 478-79 (letter 364).

Other Descriptive Information

1. See preceding letter, above.

314 To [Charles] LYELL; Down. [1866] ALS; 7 x4.5 B D25.L
3p.

Glad [Charles James Fox] Bunbury has pointed out CD's errors; probably has notes about *Drimys*, *Fuchsia*, etc. in "my Portfolio on this subject"; seems to remember that "some of fossil mammals

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of Caves of Brazil are Andean, as Vicunas, Bears & Goat-like animal &c."; is especially glad to have seen these letters because CD heard this morning that [John] Murray wants a new [fourth or 1866] edition of *Origin* & CD "must alter a few words about Organ Mountains"; might add that [Jean Louis Rodolphe] Agassiz has detected glacial markings on these mountains; ¹ is sad that "my present work [i.e. writing of *Variation under Domestication* (1868)]" will be stopped for one to three months. ²

Other Descriptive Information

1. Year determined by year of publication of edition of Darwin, *Origin* containing change about Organ Mountains. See Darwin, *Origin* (1866), 444-45. Cf. *ibid.* (1861), 405. Or see Peckham, *Variernm Origin*, 595.
2. For dates of interruption of "my present work", see "Darwin's Journal," 17.

315 To [Charles] LYELL; Down (black border) ² [1866 March 3] ALS; 7 x4.5 B D25.L 4p.

Has returned memorial, hopes it is successful; on mundane cool period, could have given additional facts if CD had known of Lyell's interest; worked in new facts in last German edition of *Origin* [? i.e. *Freeman* 428] which will appear in new [fourth] English edition [i.e. *Freeman* 115], but will be too late for Lyell [to include in the first volume of the tenth edition of Lyell, *Principles of Geology*, published November 1866]; one important consideration is that "it can be proved that individuals of the same plant, growing N. & S, or growing on mountains & plains, certainly become acclimatised & transmit different constitutional powers of withstanding cold to their seedlings; & this would come into play with the slowly advancing glacial period"; ³ CD's MS. of 47 folios, written ten years ago, is available if Lyell wants it; has read "a paper on the representative closely allied Petrels of N. & S. Oceans.--"

Other Descriptive Information

1. A date of "5 March 1866" is written on the first page in pencil. Context of letter obviously follows the preceding letter above and precedes the subsequent letter below. March 5, 1866, was a Monday.
2. CD's sister, Emily Catherine Darwin Langton, died on February 2; see "Darwin's Journal," 17.
3. See Darwin, *Origin* (1866), 448.

316 To [Charles] LYELL; Down/ Bromley Kent (handwritten) (black border) [1866] Mar 8 LS; 7.25 x4.5 B D25.L 4p.

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Printed, with minor changes: *More Letters*, II, 157-58 (letter 506). At end of letter is: sends MS., thinks most useful pages are those tied in green ribbon; these passages appeared in second German and French editions [of Darwin, *Origin* (1862-63 and 1866, respectively)] and will appear in the next [i.e. fourth] English edition, due this summer; return these special pages in a week; rest of MS. may be kept for longer period; it is the old MS. abstracted for [Darwin,] *Origin*; sends also "some pencil notes & a letter from [Joseph Dalton] Hooker after he had read this 10 yr old M.S." ¹

Other Descriptive Information

1. The old MS. was a part of Stauffer, ed., *CD's Nat. Selection*. The pencil notes may be the passage reproduced in *More Letters*, I, 438. Hooker's letter is printed in *More Letters*, I, 437-38 (letter 333). For Lyell's reply, see *Life of Lyell*, II, 408-09. For the passage under discussion, see Darwin, *Origin* (1866), 442ff; or see Peckham, *Variorum Origin*, 591-610.

317 To?; Down (type 4)	[1866 late spring]	ALS; 8 x5; B D25.16 3p.
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Thanks for letter with facts on birds admiring themselves; new [fourth] edition of Darwin, *Origin* contains remarks on beauty, but does not go into details; will send corr. a copy of it when published in the summer.

Other Descriptive Information

1. The extended discussion on beauty was added to the fourth edition, which CD finished on May 10, 1866. See "Darwin's Journal," 17.

318 To?; Down (type 4)	[?1866]	ALS; 8 x5; B D25.215 3p.
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Thanks for "remembering what interests me"; has not seen "Bäer's [sic; Baer's] paper," but has read "long extracts in one of [Rudolph] Wagner's papers after publishing my historical sketch [in 1860-1861]"; ² knew about case of hairy and toothless family (so like the Turkish dog) through [John] Crawfurd's [*Journal of an*] Embassy [*from the Governor-General of India to the Court of Ava*, with an appendix...by Professor Buckland and Mr. Clift, 2nd ed., 2v. (London: Henry Colburn, 1834)] and through "[Jules?] Travels"; did not know case was brought before B.A.A.S.; is working on "the very obscure subject of the causes of variability in domestic production" and hopes to go to press in winter or spring. ³

Other Descriptive Information

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1. Year determined by date of printing of Darwin, *Variation under Domestication* (1868). See "Darwin's Journal," 17.
2. Wagner's paper is actually a book, *Zoologisch-Anthropologische Untersuchungen* (Gottingen: n.p., 1861). See Darwin, *Origin* (1866), xx-xxi; or see Peckham, *Variorum Origin*, 69, line 68.1:d.
3. CD here refers to *Variation under Domestication* (1868); see note 1.

319 To [Charles] LYELL; Down (type 4) [1866] Sep 8 [and] Sunday LS B D25.L
 Morning [Sept. 9] (postscripts in
 CD's hand);
 4p. @ 8 x5,
 5p. @ 7 x4.5
 9p.

Printed, with minor changes: *More Letters*, II, 159-60 (letter 507). At beginning of letter is: postponement of Lyell's visit has been great disappointment; CD's sister [Susan Elizabeth Darwin] suffers greatly and there is no hope of recovery; ¹ is glad that Lyell may come [to Down] in October.

Other Descriptive Information

1. She died on October 3; see "Darwin's Journal," 17.

320 To [Charles] LYELL; Down. (black [1866] Oct 9th ALS; 7.25 B D25.L
 border) ¹ x4.5 4p.

Printed in full, with minor changes: *More Letters*, I, 271-72 (letter 192).

Other Descriptive Information

1. See note to preceding letter, above.

321 To [Charles] LYELL; Down (black [1866] Oct 12 LS B D25.L
 border) ¹ (postscripts in
 CD's hand);
 4p. @ 7.25
 x4.5, 1p. @ 7
 3/4 x5; 5p.

Has read sheets [of the MS. of the amended chapters of Lyell, *Principles of Geology*, 10th ed., 2v. (London: John Murray, 1866-1868)] with "enthusiastic admiration"; returns them; thinks this the best thing published by Lyell; has no serious criticisms, but gives three remarks on survival of cold period

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by mammoth (p. 188), on permanence of continents (slip, p. 14), and on absence of secondary and plutonic rock on islands of great oceans (slip 15); gives congratulations for near-completion of Lyell's work; passage about evaporation of snow, which is conjectural but correctly reported, is in Darwin, *Journal of Researches* [(1839), 277-78n, or (1845),] 245n; [Charles] Pritchard, in his Nottingham sermon, ² says that, according to [George Biddell] Airy, [John Couch] Adams, and others, the day is slowly increasing in length, so that a trillion years ago its length was 1/200 second, and it will be 80 years long a trillion years hence.

Other Descriptive Information

1. See note to second letter preceding, above.
2. *The Continuity of the Schemes of Nature and of Revelation: A Sermon* [on Eccl. iii. 14, 15] (London: 1866). This sermon was preached at the meeting of the B.A.A.S. in Nottingham in 1866; see *DNB*, 46, 404.

322 To [Charles] LYELL; Down. (black border)	[1866] Dec. 1	ALS; 7.25 x4.5 3p.	B D25.L
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Emma [Wedgwood Darwin] has brought Lyell's "grand book"; ¹ thanks for it and for inscription on first page; Lyell's additions are prodigious; wants to read them, especially climate chapter, but must read five or six books and long papers first; "for p. 136, read 146"; congratulations.

Other Descriptive Information

1. *Principles of Geology*, 10th ed., 2v. (London: John Murray, 1866-1868), I.

323 To Mrs. [Anne] MARSH-CALDWELL; Down Bromley Kent (black border)	[1866]	ALS; 7.25 x4.5 4p. (enclosure wanting)	B D25.217
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Thanks for note; returned yesterday from stay in London with Erasmus [Alvey Darwin], who is not very well; does not know Christian name or address of Mr. Corbet, so please forward enclosed note to him; has given Corbet "all the information I could", but "mere chance experiments in diet" are useless; Emma [Wedgwood Darwin] is ill.

Other Descriptive Information

1. Date determined by Sydney Smith, St. Catharine's College, Cambridge University, who also states that Corbet was a blind friend of Mrs. Marsh-Caldwell, whose daughter Rosamund stayed with Corbet.
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324 To [Philip Lutley] SCLATER; Down Bromley/ Kent. (handwritten)	[1866] Dec 24 [end. Dec 1866]	LS; 7 3/4 x5; 1p. and end. [9402/ C Darwin/ Enclosure/ Dec 1866] and 2p. enclosure	B D25.S
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Sends enclosed so Sclater can "communicate directly with the man" if desired. Enclosure is a portion of an undated ALS from Benjamin Dann Walsh, presumably addressed to CD, which is entirely crossed out except for the following: "If you happen to know any Ornithologist who wishes to exchange European Birds for North American birds, I have a particular friend here, 'Dr. Velie, Rock Island, Illinois,' who has a very fine collection & is an excellent manipulator of birds'-skins. He is also an honorable man to exchange with, which is more than can be said of certain naturalists. But don't put yourself to any trouble on account of this matter."¹

Other Descriptive Information

1. Jacob W. Velie was Curator of the Chicago Academy of Sciences from 1879 to 1893; see A. T. Andreas, *History of Chicago from the Earliest Period to the Present Time*, 3v. (Chicago: A. T. Andreas Co., 1884-86), III, 430-31. Suzanne W. Brown, Secretary to the Director, Chicago Academy of Sciences, provided this information.

325 To [George Henry Kendrick] THWAITES; Down Bromley Kent (handwritten)	[?1867] Jan 31.	LS; 8.25 x5.5 2p. (enclosures wanting)	B D25.TH
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J[ames] Emerson Tennant [sic; Tennent] says captured elephants weep when moaning and screaming; observe this, and see if the "orbicularis palpebrarum" acts to wrinkle the surrounding skin and partially or wholly close the eyes; encloses "some printed copies of my queries on expression, with two of the more important ones a little amended"; would appreciate "a few observations on any race".¹

Other Descriptive Information

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1. On the subjects discussed in this letter, see: Darwin, *Expression of the Emotions* (1872), 21, 167-68, and 167n; and R. B. Freeman and P. J. Gautrey, "Charles Darwin's *Queries about Expression*," *Bull. Br. Mus. nat. Hist.* (hist. Ser.), 4 (1972): 205-19.

326 To J[ames] P[hilip] Mansel WEALE; Down (type 4)	[1867] Feb 22. [pmk. FE 22/ 67]	LS; 8 x5; 4p. and env., add. [J. P. Mansel Weale Esq/ Bedford/ Algoa Bay/ Cape Colony], end. [Feb: 1867 in answer to a/ letter from Bedford]	B D25.249
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Thanks for letter and paper on *Bonatea*,¹ which CD read and forwarded to Linnean Society; several points in it are new to CD; as it has published on orchids before and is in arrears, the Society may not publish the paper, but it is a valuable paper nonetheless; Weale's observations on *Asclepias* are new and curious; Robert Brown said years ago that he did not understand how pollen masses were retained by stigmas which do not emit viscid matter; has not heard of Brown's conduct as botanist in Weale's colony; thanks for praise of CD's work; "It is a most serious drawback to me that I am very seldom able to go to London or to see any of my fellow-workers in Natural History owing to my constant state of ill-health".

Other Descriptive Information

1. Weale, "Notes on the Structure and Fertilization of the Genus *Bonates*, with a Special Description of a Species Found at Bedford, South Africa," *J. Linn. Soc. (Bot.)*, 10 (1869): 470-76.

327 To [John Maurice] HERBERT; Down (type 4)	[1867]	LS; 8 x5; 3p. B D25.H
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Thanks for letter; knew [Richard] Dawes as an undergraduate, but had seen him only once since; will send two guineas for his memorial; remembers that [Marmaduke] Ramsay of Jesus [College, Cambridge] told Dawes he would do nothing but laugh through life, and all agreed, which shows

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"how little a man some times knows himself"; is "much better" in health after "two or three bad years", but [John] Tyndall gives "too flourishing an account", as CD is "never well for the whole day"; declines invitation; invites the Herberts to Down House.

Other Descriptive Information

1. Dawes died on March 10, 1867.

328 To [Charles] LYELL; Down (type 4) [1867] June 1st ALS; 8 x5; B D25.L
4p. (enclosure
wanting)

Printed, with minor changes: *Life and Letters* III, 65-66. At beginning of letter is: does not think H[enry] Parker ever reviewed the *Origin*; perhaps Lyell refers to an article ¹ on [George Douglas Campbell,] D[uke] of Argyll, which CD praised and a copy of which CD encloses; please return it.

Other Descriptive Information

1. Probably "The Reign of Law," *Saturday Review*, 23 (1867): 82-84. But see also: *Saturday Review* for November 15, 1862; and *Life and Letters* III, 274.

329 To [Charles] LYELL; Down (type 4) [1867] June 9th ALS; 8 x5; B D25.L
3p.

The "variability & passage of Primrose into Cowslip must be given up", since CD has just proved that common oxlip is "a natural Hybrid between the two", but "Bardfield oxlip, which occurs almost only in Essex (the P. Elatior of *Jacquin*) is a perfectly distinct & good & third species"; is glad Lyell likes H[enry] Parker's article; ¹ wants to discuss *N[orth] British Review* and to see the Lyells; should go to London on fifteenth and, "stomacho volente", will breakfast with Lyell on Monday the seventeenth; ² Lyell's note about *Primula* lacked enclosure.

Other Descriptive Information

1. See preceding letter, above.
2. CD was in London June 17-24, 1867; see "Darwin's Journal," 17.

330 To [Charles] KINGSLEY; Down (type 4) [1867] LS; 8 x5; 9p. B D25.165
4) (incomplete)
(enclosures
wanting)

Thanks for deeply interesting letter; lends paper by Cap[tain Frederick Wollaston] Hutton, "a very acute observer", from a collection of reviews of Darwin, *Origin* (1859+); ² has just finished [George Douglas Campbell,] Duke [of Argyll]'s book [*The Reign of Law* (London: Alexander Strahan, 1867)] and [Fleeming Jenkins, "The Origin of Species,"] *N. Br. Rev.*, [46 (1867); 149-71 (issued June, 1867)]; Duke's book "very well written, very interesting, honest & clever & very arrogant. How coolly [*sic*] he says that even J[ohn] S[tuart] Mill does not know what he means"; parts of book are weak, such as about rudimentary organs and structure of humming birds; criticizes Duke's argument regarding diversity of structure; see CD's comments on this in Darwin, *Origin* (1866), 226, and on beauty, p. 238; sends copy of *Origin* to Kingsley; see also enclosed letter by [Alfred Russel] Wallace; Duke speaks absurdly of beauty "existing independently of any sentient being to appreciate it"; thinks deity should not come into scientific discussion; glad Kingsley admits sexual selection, which CD has studied recently; on lack of beauty in female birds, Wallace finds relation between nature of nest and female's beauty; ³ female peacock merely selects beauty, not every detail of color, so circular spot could become circular zone; "correlation of growth" is bad term, now prefers "correlation of variation"; Duke's attack on this is unfair; Duke wrong about natural selection; "I presume he wd not deny that [Robert] Bakewell, Collins, &c had in one sense made our improved breeds of cattle, yet of course the initial variations have naturally arisen; but until selected, they remained unimportant, & in this same sense natural selection seems to me all-important"; *N. Br. Rev.* is telling and hostile, but lacking in knowledge; reviewer wrong that domestic races formed rapidly; regarding antiquity of world, "I cannot implicitly believe the mathematicians, seeing what widely different results [Samuel] Haughton [, William] Hopkins & [William] Thompson [*sic*; Thomson, Lord Kelvin] have arrived at"; ⁴ note from [Charles] Lyell, just received, dismisses *N. Br. Rev.*; study of geological work done during glacial period impresses one with necessary lapse of time; who wrote *N. Br. Rev.*?

Other Descriptive Information

1. CD read the Duke's book during this year; see *Life and Letters* III, 65.
2. CD probably refers to Hutton's review of the *Origin* in the *Geologist* (1861): 132-36 and 183-88. See *Life and Letters* II, 362; *More Letters*, II, 183-84; and Vorzimmer, *Reprint Catalogue*, item R.79.
3. See *More Letters*, I, 283 (letter 203); *ibid.*, II, 59-61 (letter 429); and *ibid.*, II, 72-74 (letter 440).
4. See Joe D. Burchfield, "Darwin and the Dilemma of Geological Time," *Isis*, 65 (1974): 301-21; and *idem*, *Lord Kelvin and the Age of the Earth* (New York: Science History Publications, 1975).

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331 To [Charles] LYELL; Down (type 4) [1867] July 18 LS; 8 x5; 6p. B D25.L
and sketch

First portion printed, with minor changes: *Life and Letters* III, 71-72. At end of this portion is: thanks about six-fingered men, but that chapter [i.e. chapter 12 of Darwin, *Variation under Domestication* (1868)] is finished.

Next portion printed, with minor changes: *More Letters*, II, 141-43 (letter 493). At end of letter is: [Ludwig] Rüttimeyer sent his book [*Über die Herkunft Unserer Thierwelt: Eine Zoogeographische Skizza...* (Basel: H. Georg, 1867)], but has not read it or cut pages; wishes Lyell good progress in book [*The Principles of Geology*, 10th ed., 2v. (London: John Murray, 1866-1868), volume 2].

332 To [Charles] LYELL; Down (type 4) [1867] Aug 22 LS (postscript B D25.L
in CD's hand);
8 x5; 4p.

Printed, with minor changes and minor omissions: *Life and Letters* III, 72-73. p. 73, line 2, missing phrase is "with all its bad judgment & taste". At end of letter is: regards to wife [Mary Elizabeth Horner Lyell]. At beginning of postscript is: leave French edition [of Darwin, *Origin* (*Freeman* 420) (1866)] at 6 Queen Anne St. [home of CD's brother, Erasmus Alvey Darwin]. p. 73, line 2 of postscript, change "Russian has" to "Russian, Kowelowsky [i.e. Valdimir Onufrievich Kovalevsky], has".

333 To [?Cassell, Petter, & Galpin, [1867] Aug 24 [end. 24th. LS; 8 x5; 3p. B D25.196
publishers] ¹; Down (type 4) August 1867] and end. [923/
C. Darwin/
24th. August
1867]

Has had much correspondence with [Vladimir Onufrievich] Kovalevsky, who has visited Down House; he is brother of "distinguished naturalist" [Aleksandr Onufrievich Kovalevsky]; he is preparing a translation of Darwin, [*Variation under Domestication* (1868)], ² and has translated some expensive German works; he has made liberal offers to CD for translation; trusts Kovalevsky, but cannot answer for his "pecuniary circumstances", which are probably good.

Other Descriptive Information

1. This correspondent was suggested in a private correspondence to the author from Professor James A. Rogers, Department of History, Claremont Men's College.

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2. For citation of this translation in Russian, which is impossible to reproduce here, see *B. Mus. Catalogue*, 48, 964, second entry from top.

334 To [Charles] LYELL; Down (type 4) [1867] Oct 4 ALS (portion B D25.L
not in CD's
hand); 8 x5;
4p.

Printed in full, with minor changes: *More Letters*, I, 299-300 (letter 217).

335 To [George Henry Kendrick] [1867] Oct 26 LS; 5.5 x4.5 B D25.TH
THWAITES; Down (type 2) 1p. and enc. ¹

Since corr. has helped CD with queries, encloses a few slightly corrected copies; stir up any likely and *accurate* man.

Other Descriptive Information

1. Enclosure is one-page broadside, *Queries about Expression*, identical to that identified as version number 2 in Richard Broke Freeman and Peter Jack Gautrey, "Charles Darwin's *Queries about Expression*," *Bull. Br. Mus. nat. Hist.* (hist. Ser.), 4 (1972): 207ff.

336 To [Charles] LYELL; Down (type 4) [1867] Oct 31st LS (postscript B D25.L
in CD's hand);
8 x5; 4p.

Printed, with minor changes and minor omissions: *More Letters*, II, 4-5 (letter 381). At beginning of letter is: Emma [Wedgwood Darwin] has headache. p. 4, line 10, change "distances" to "differences [*sic*]". At end of letter is: brother [Erasmus Alvey Darwin] is home now.

337 To [Charles] LYELL; Down (type 4) [1867] Dec 7 LS; 8 x5; 3p. B D25.L

Printed in full: *More Letters*, I, 284-85 (letter 205).

338 To [Philip Lutley] SCLATER; Down [1867] Decr. 9th [end. Dec ALS; 8 x5; B D25.S
(type 4) 1867] 2p. and end.
[10392/ C.
Darwin/ abt.

Index &c/ Dec
1867]

Wants both indices, since has no index of *Proc. zool. Soc. Lond.*; send to same address as "Journal &c"; wants more recent list of fellows than 1858 version which CD has at present; December number of *Intellectual Observer* does not contain article by Sclater; supposes article on barbets is in November number; ¹ enjoys talk with Sclater.

Other Descriptive Information

1. Supposition is correct. See Sclater, "Barbets, and Their Distribution," *Intellectual Observer*, 12 (1867-1868): 241-46. Talk with Sclater probably occurred while CD was in London in late November and early December; see "Darwin's Journal," 17.

339 To [Albert Charles Lewis Gotthilf GÜNTHER]; Down (type 4)	[?1867]	ALS; 8 x5; B D25.96 1p., end. [to A Günther 1870]
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Thanks for note; information is just what CD wanted; has looked at plates and text; cases are "capital & quite new to me"; should have known that corr.'s work would have this in it. ²

Other Descriptive Information

1. Apparently, this letter is a reply to a letter from Günther dated 19 December 1867. This letter is bound in volume 82 of the Darwin Papers at University Library, Cambridge. See *Handlist of Darwin Papers*, 21.

2. CD probably refers to Günther, *Catalogue of the Fishes in the Collection of the British Museum*, 8v. (London: 1859-1870).

340 To [?Julius Victor CARUS] ¹ ; no location	[?1867]	ALS B D25.74 (incomplete); 10.5 x8; 1p.
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Gives definitions of the following terms: shoulder-pad; cross and intercross; structure; constitution. Shows differences in the terms "constitution", "habit", and "instinct". Is astonished and pleased that translation ¹ will be ready by May.

Other Descriptive Information

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1. The translation is probably the first German edition of Darwin, *Variation under Domestication* [Freeman 459] (1868). This information, the year for this letter, and the recipient were suggested by Sydney Smith, St. Catharine's College, Cambridge University.

341 To [George Henry Kendrick] THWAITES; Down (type 4)	[?1867-1868]	ALS; 8 x5; B D25.TH 3p.
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Printed, with minor changes and minor omissions: *More Letters*, II, 90-91 (letter 455).

Other Descriptive Information

1. See: Darwin to Thwaites, Jan. 31, [?1867], above; "Darwin's Journal," 17-18; and Darwin, *Descent of Man* (1871), II, 284ff and 319.

342 To [George Henry Kendrick] THWAITES; Down (type 4)	[?1867-1868]	ALS; 8 x5; B D25.TH 4p.
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Thanks for note of April 1; case of monkeys is hopeless; take no more trouble about human expression; learned after writing that orbicularis palpebrarum contracts on trumpeting elephants in Zoological Gardens, and distress brings tears; would appreciate further details; [Edgar Leopold] Layard says a breed of fowls in Ceylon has hen alone colored like sooty white plumage; are young of breed sooty like hen or pure white like cock?

Other Descriptive Information

1. For further discussion of points in this letter, see the following letters above: Darwin to Thwaites, Jan. 31, [?1867]; *ibid.*, Oct. 26, [1867]; and *ibid.*, Feb. 13, [?1867-1868]. See also Darwin, *Variation under Domestication* (1868), I, 256 and 256n.

343 To [George Henry Kendrick] THWAITES; Down (type 4)	[?1867-1868]	ALS; 8 x5; B D25.TH 2p.
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Thanks to Thwaites and to [Edgar Leopold] Layard for trouble; is surprised at result, since Layard is trustworthy and [Edward] Blyth says same about fowls in Bengal; do not send fowls, since Zoological Society foolishly objects to domestic varieties.

Other Descriptive Information

1. See preceding letter, above.

344 To [John Maurice HERBERT]; Down (type 4)	[1868]	LS; 8 x5; 3p. B D25.H
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Thanks for congratulations [because son George Howard Darwin was second wrangler at Cambridge]; son has pleased CD; reminds CD of celebration of [Charles Thomas] Whitley's wrangler honors and honors of corr.; old microscope, received anonymously [from Herbert], reminds CD of their old friendship; regards to wife.

Other Descriptive Information

1. See *Emma Darwin*, II, 216-17. This letter is part of the Herbert collection.

345 To [Philip Lutley] SCLATER; Down (type 4)	[1868] Feb. 28 [end. March 1868]	ALS; 8 x5; B D25.S 1p. and end. [200/ C. Darwin/ to Secretary/ March 1868]
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Thinks Capt. [Philip Parker] King's birds [?collected on 1826-1830 voyage of H.M.S. *Adventure*] were given first to Zoological Society and then to British Museum, but habitats for many specimens are incorrectly marked.

346 To [Charles] LYELL; 6 Queen Anne St.	[1868 (?March 3-10)]	ALS; 8 x5; B D25.L 4p.
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Thanks for long letter, somewhat consoling, "but I take [the argument for a short age of the earth based on a calculation of the combustion rate of] the Sun much to heart"; is consoled by argument based on ignorance of universe and of process causing incandescence in heavenly bodies; formed opinion that continents have had long endurance on basis of facts of geographical distribution; see Darwin, *Origin* [(1959), chap. 11, esp. 357-58] and Darwin, *Coral Reefs*; agrees about denudation, had concluded that matter brought to lower level was much ground up; this would not affect "Scotch streams"; is tired from morning in British Museum.

Other Descriptive Information

1. Year is penciled on letter by CD's son. During 1868, CD was at 6 Queen Anne Street only during March 3-10 and November 7-16; see "Darwin's Journal," 17-18. March period is preferred because of date on which William Thomson, Lord Kelvin, read his famous paper on the age of the earth; see Thomson, "On Geological Time," [read February 27, 1868], *Trans. geol. Soc. Glasg.*, 3 (1871): 1-28.

347 To [? Thomas RIVERS]; Down (type 4)	[?1868] Mar 4	LS; 8 x5; 3p. B D25.67
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Thanks for note with details on Le Compte family and on moss roses [*Rosa centifolia*]; regrets having missed recent papers by corr. on inheritance, "but from living in the country & not seeing periodicals I have no doubt missed much of importance"; hopes CD has acknowledged corr. adequately.

348 To J[ohn] Jenner WEIR; 6 Queen Street/ Cavendish Sqe/ W.	[1868 ca. March 6] [end. March/ 1868; pmk. MR6/ 68; 7p. and env., wmk. 1860]	ALS; 8 x5; B D25.3 add. [J. Jenner Weir/ 6. Haddo Villas/ Black-heath/ S.E.],end. [Darwin/ March/ 1868]
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Printed in full, with minor changes: *More Letters*, II, 66-68 (letter 435).

349 To [Charles] LYELL; 4 Chester Place/ N.W	[1868 March 19]	ALS; 8 x5; B D25.L 3p.
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Thanks for "the grand Book [i.e. Lyell, *Principles of Geology*, 10th ed., 2v. (London: John Murray, 1866-1868), volume 2]"; has read only the newspaper since coming to London [on March 3], and vowed not to look at Lyell's book, but curiosity forced him to read some of the organic part; Lyell has given a "fair history of the progress of opinion on Species; but you will perhaps think it would be strange if I did not say so, seeing what high credit you give to me"; is delighted that Lyell alludes to pangenesis; "an untried hypothesis is always dangerous ground"; "My fear has always been that Pangenesis would be a still-born infant, over whom no one would rejoice or cry"; is eager to read chapters on domestication and on man.

Other Descriptive Information

1. Full date written on first page in pencil.

350 To D. PENNETHORNE; Down (type 4)	[1868] May 22nd. [pmk. MY LS; 8 x5; 23/ 68]	ALS; 8 x5; B D25.164 2p. and env., add. [D. Pennethorne Esq/ 1 New
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Square/
 Lincolns Inn/
 London]

Thanks for note and paper on man; ¹ has studied the question for years and is writing essay on it, so found nothing new in corr.'s paper; agrees with corr. on "almost all points".

Other Descriptive Information

1. See Vorzimmer, *Reprint Catalogue*, item Q. 131. CD's essay is probably his book, *Descent of Man* (1871).

351 To "Gentlemen" [?Bibliographisches 1868 June 8 LS; 8 x5; 4p. B D25.144
 Institute in Hildburghausen, Germany];
 Down (type 4)

Has suggested to [John] Murray the publication of an English edition of [Alfred Edmund] Brehm's *[Illustrirtes] Thierleben* [6v. (Hildburghausen: Bibliographisches Institute, 1864-1869)], but Murray thinks England saturated with [T.W.] Wood, [? *Curiosities of Ornithology*]; thinks Brehm's book is " quite excellent, & the illustrations are admirable"; wants to borrow stereotypes of some of Brehm's illustrations for Darwin, [*Descent of Man* (1871)]; thinks this will further advertise Brehm's work; will pay for stereotypes; wants from volume 1, the three monkeys pp. 54, 57, and 119; from volume 3, bower bird p. 317, Paradisea p. 324, Cosmetornis p. 669, Rupicola p. 745, and Cephalopterus p. 752; from volume 4, hummingbird pp. 109 and 111, [Crepidonia?] p. 326, Polyplectron p. 471, Machetes p. 625, Palamedea p. 739, and Rhynchaea p. 743. ¹

Other Descriptive Information

1. For stereotypes used by CD, see Darwin, *Descent of Man* (1871), II, 42, 47, 59, 70, 75, 88, 90, 202, 283, 309, and 311. Publisher of Brehm's work was assumed to be recipient of this letter.

352 To [Charles] LYELL; Down (type 4) 1868 July 14 LS; 8 x5; 4p. B D25.L

Printed, with minor changes: *More Letters*, II, 160-61 (letter 508). At beginning of letter is: thanks for [Constantin Wilhelm Lambert] Glöger [sic; Gloger], [? *Das Abändern der Vogel...* (Breslau: 1833) ¹], but already has it, so has sent it to Zoological Society; thanks also about hairy men, which CD possesses; [George Henry] Lewes has published three or four articles altogether, but not consecutively and more are yet to appear; ² differs from Lewes on many points, but finds independent thinking on subject refreshing.

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Belgium/ No
2.]

Thanks for letter of October 20 and offer of aid; thanks for copy of the instructions; thanks for "translating & inserting the questions on expression"; ¹ good wishes for voyage [to East Asia]. ²

Other Descriptive Information

1. See Darwin, *Expression of the Emotions* (1872), 15-16.
2. See *Poggendorff*, III, 1184.

357 To [William Darwin] FOX; Down [1868] Dec. 12th ALS; 8 x5; B D25.246
(type 4) 1p.

Thanks for letter just received; will find Fox's return on the sheep and cattle very useful; ¹ must prepare a new [fifth] edition of "that everlasting Origin"; ² "I am sick of correcting."

Other Descriptive Information

1. See Darwin, *Descent of Man* (1871), I, 304-05.
2. This edition was prepared between December 26, 1868, and February 10, 1869; see "Darwin's Journal," 18. This is basis for determination of year for this letter.

358 To [George Henry Kendrick] 1868 Dec 29. LS; 8 x5; 4p. B D25.TH
THWAITES; Down (type 4)

Thanks to Thwaites and friends for taking trouble about fowls; results doubtful if not the pure breed; is "unwilling to believe that [Edward] Blyth & [Edgar Leopold] Layard were both mistaken"; do males of black chickens mentioned by Layard undergo change when they become adult; is glad to see [S. O.] Glenie's letter; thank Glenie and Layard; is astonished that Glenie saw no contraction of orbicular muscle in elephants, since CD and others have seen this plainly on elephants in Zoological Gardens; perhaps too great a contraction is expected; thanks for specimen showing surprising difference in form of leaves. ¹

Other Descriptive Information

1. See letter to Thwaites, September 2, 1868, above.

359 To [Thomas Campbell] EYTON; 1869 Jan 24 LS; 8 x5; 3p. B EY83
Down (type 4)

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Cannot provide needed information; glad Eyton continues to work on osteology of birds; has not seen Alph[onse] M[ilne] Edwards's book [probably *Recherches Anatomiques et Paléontologiques pour Servir à l'Histoire des Oiseaux Fossiles de la France*, 4v. (Paris: V. Masson et Fils, 1867-1871), II, published in 1868 or 1869], but hears it is excellent; how many months after birth do horns appear in males of fallow deer? ¹

Other Descriptive Information

1. See Darwin, *Descent of Man* (1871), I, 288n.

360 To [John] PHILLIPS; Down (type 4) 1869 Jan 27 LS; 8 x5; 2p. B D25.123 no.
1

Thanks for book on Vesuvius [*Vesuvius: A History of the Mountain and of Its Successive Eruptions* (Oxford: 1869)], which has not yet arrived.

361 To [James CROLL]; Down (type 4) 1869 Jany 31 LS; 8 x5; 6p. B D25.17

Printed in full, with minor changes: *More Letters*, II, 162-64 (letter 510).

362 To [Thomas Roscoe Rede 1869 March. 3rd. LS; 8 x5; 2p. B D25.132
STEBBING]; Down (type 4), but with
"S.E." crossed out in hand of CD's
amanuensis

Printed in full, with minor changes: *Life and Letters* III, 110-111.

363 To?; Down (type 5) [1869] March 4th ALS; 8 x5; B D25.147
3p.

Heard while recently in London that corr. had "already started" [on a journey of some sort]; gave spare copy of corr.'s book to [Philip Lutley] Sclater to forward to Dr. Hartlant, the poor ornithologist; do camels, when uttering a loud and prolonged sound, contract their eyelids and skin around eyes; cannot observe this at Zoological Gardens, because camels there make no noises.

364 To [Charles] LYELL; Down (type 4) [1869] March 5th ALS; 8 x5; B D25.L
4p.

Lyell's point is good; when reading [James] Croll, ¹ thought of preservation of glaciation in Scotland and Wales and of turf-covered shelves of Glen Roy and elsewhere; supposed Croll would say wear

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was confined to hard rocks in valley; but according to Lyell's figures, water channels could not supply enough detritus; someone should visit Glen Roy to measure area of naked rock and detritus; thinks shelves unchanged since they bordered the water; thinks Croll's and [Archibald] Geikie's estimate of surface degradation ² is too high, even if estimate of present rate is correct; "Somehow I cannot persuade myself that the Glacial period was much more recent than hitherto supposed"; would like to hear Croll's reply to this; sorry about "Amazonian shells".

Other Descriptive Information

1. "On Geological Time, and the Probable Date of the Glacial and the Upper Miocene Period," *Lond. Edinb. Dubl. Phil. Mag.*, 35 (1868): 363-84; and 36 (1868): 141-54, 362-86.
2. *Ibid.*; and Geikie, "On Modern Denudation," *Geol. Mag.*, 5 (1868): 249-54, reprinted in *Trans. geol. Soc. Glasg.*, 3 (1871): 153-90.

365 From Thomas R[oscoe] R[ede] STEBBING; Tor Crest Hall/ Torquay.	1869 March 5th.	Copy of L, B D254.2 retained by author; 7 x4.5 1p.
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Was prejudiced against CD's theories when he began to read CD's works, but CD's writings convinced him of truth of CD's theories; thanks for "kind letter" approving Stebbing's paper on Darwinism. ¹

Other Descriptive Information

1. See letter to Stebbing, March 3, 1869, above.

366 To [Thomas Campbell] EYTON; Down (type 4)	[?1869]	ALS; 8 x5; B EY83 1p.
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Received fawn's head safely, but previous information sufficed; pleased to hear that CD's son at Trinity [?Francis Darwin, George Howard Darwin, or Horace Darwin] is a friend of Eyton's son [? William Campbell Eyton, Thomas Slaney Eyton, or Robert Henry Eyton]; "It is a resurrection of old times [when CD and Eyton were at Cambridge together]."

Other Descriptive Information

1. This letter appears to follow letter to Eyton dated January 24, 1869, above.

367 To [Charles] LYELL; Down (type 4)	[1869] March 20th	ALS; 8 x5; B D25.L 4p.
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Thanks for [Alfred Russel] Wallace's letter; ¹ had not formed opinion on [Henry] Moseley's or [James] Croll's papers, ² but latter *seemed* ingenious; since Moseley studied mechanics, he must have thought of Wallace's considerations; thought parallel veins in glacial ice and curve formed in straight row of sticks [arranged transversely in ice across top of glacier] show that glaciers do not descend by succession of abrupt fractures; subject is "beyond me"; Wallace's book [*The Malay Archipelago...*, 2v. (London: Macmillan, 1869)] is capital, especially discussions on geographical distribution, and it will be a success; is working hard.

Other Descriptive Information

1. See letters from Wallace to Lyell dated March 13 and March 17, 1869, Lyell Papers, APS Library.
2. Moseley, "On the Mechanical Possibility of the Descent of Glaciers by Their Weight Only," *Proc. R. Soc.*, 17 (1869): 202-08; and Croll, "On the Physical Cause of the Motion of Glaciers," *Phil. Mag.*, 37 (1869): 201-06.

368 From [Jean Louis] A[rmand] de QUATREFAGES [de Bréau]; Paris	1869 March 29	?ALS; 8.5 B D25.X3 x6.5 4p. (in French) ¹
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Wanted to meet--and tried to meet--CD's son, but without success; hopes to meet CD some day; thanks for compliments on studies of Darwinism; although he opposes CD, Quatrefages acknowledges CD as only man to propose an evolutionary theory which is scientific and embraces all problems posed by organic nature; thinks scientific reason is still on Quatrefages's side, but appreciates grandeur of CD's work and says so in final installment, to appear April 7; will send a copy of this paper to CD; through printer's error, incorrectly stated in third article of series that CD erred in discussion of single origin for titmouse and nutcracker; hopes their differences of opinion never alter their good relations.

Other Descriptive Information

1. Translation into English provided by editor's wife, Nancy E. Carroll.

369 To [Charles] LYELL; Down (type 5)	[1869] May 4th	ALS; 8 x5; B D25.L 4p.
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Printed, with minor changes: *Life and Letters* III, 116-17. p. 117, line 15, missing phrase is "& weak". At end of letter is: has recovered from crushing by horse in three weeks instead of in three months as [James] Paget expected. ¹

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Other Descriptive Information

1. See *Emma Darwin*, II, 226.

370 To [Charles] LYELL; Down (type 5), 1869 May 20 LS; 8 x5; 4p. B D25.L
but "Beckenham" has not been written in

Printed in full, with minor changes: *More Letters*, II, 144-45 (letter 495).

371 To [William Winwood READE]; [?1869] ALS; 4p. @ B D25.193
Down (type 4) 8 x5, 2p. @
7 x4.5 6p.
(enclosure
wanting)

Thanks for letter; has long been interested in expression; enclosed queries sent to various parts of world; has received only a few answers, chiefly from Australia; none discussed "true negroes"; thus, would be grateful for answers; corr. will find observation difficult; gives suggestions on how to facilitate observation; has had no answers on query five, "an expression well known to the old Grecian statuaries"; ² was just wishing for observer on Guinea coast; ¹ do horns and ruffs of throat hair appear first on breeds of sheep in which rams alone acquire such traits or on breeds in which both sexes acquire them; give age when these traits first appear; on gorilla and chimpanzee, has contradictory evidence on whether upper or lower body of gorilla is hairiest; presumes voice of male the more powerful; do "the wild natives" consider "their own characteristic features" to be beautiful; do barbarian women influence particular men to woo them or to purchase them? ³

Other Descriptive Information

1. Reade went to the Guinea coast in 1869; see *DNB*.

2. See: Darwin, *Expression of the Emotions* (1872), 21-22, 279, and 289; and Richard Broke Freeman and Peter Jack Gautrey, "Charles Darwin's *Queries about Expression*," *Bull. Br. Mus. nat. Hist.* (hist. Ser.), 4 (1972): 205-19.

3. See Darwin, *Descent of Man* (1871), I, 289n, and II, 247, 285, 344, 346, 350, 357, and 374.

372 To [Edgar Albert SMITH] ¹; [1869] June 30th ALS; 8 x5; B D25.94
Caerdeon/ Barmouth/ N. Wales 4p.

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Belated thanks for proofs of excellent woodcuts; make female in figure 2a less dark; give name of male; return proofs, MS. list of specimens or instructions for woodcuts, and revise of corrected proof previously submitted by CD; may need more cuts; is ill.

Other Descriptive Information

1. Written in pencil on last page is: "To E. A. Smith/ Zool. Dept./ British Museum".

373 To Miss LLOYD; Down (type 5)	[ca. 1869] Aug. 4th	ALS; 8 x5; 1p. and env., add. [Miss Lloyd/ Caerdeon] (enclosure wanting)	B D25.234
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Thought corr. would like to see enclosed letter from [William] B[oyd] Dawkins, who was pleased by visit, although it was not as geologically interesting as expected; "There is something wonderfully curious in coming across remains of our old savage progenitors, with their ground-down teeth."

374 To?; Down (type 5)	[ca. 1869-1871]	ALS; 8 x5; 4p.	B D25.62
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Would like to come to London to be photographed, but cannot spare time; has already refused about six such requests, "but none with a quarter of the regret that this causes me"; invites corr. to come to Down via "Orpington station (on the S.E.R. Charing Cross)" to take photo; corr. could easily reach sixteen good men without troubling about CD.

Other Descriptive Information

1. Years determined by Down address variant used.

375 To [St. George Jackson MIVART]; Down (type 5)	[ca. 1869-1871]	ALS; 8 x5; 2p.	B D25.5
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Thanks for "promptly answering my note"; had taken inaccurate notes on corr.'s opinions; hopes corr. will continue labors on primates; "Whenever I publish my book [?*Descent of Man* (1871)] I can see that I shall meet with universal disapprobation, if not execution.-- The truth is hard to gain, however much one may try."

Other Descriptive Information

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1. Years determined by Down address variant used.

376 To?; Down (type 5)	[ca. 1869-1871]	ALS; 8 x5; B D25.151 3p.
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Thanks for copies of three publications; will send duplicates to Linnean Society; cannot read Italian, unfortunately, but wife will translate parts of corr.'s works; is glad corr. discussed pangensis, even if corr. is critical of it; will have this discussion translated carefully, will read it, and will submit it for publication; P.S. has just received highly complimentary letter from corr. dated August 22.

Other Descriptive Information

1. Years determined by Down address variant used. Corr. *could* be F. Delpino, but this is nothing more than a guess.

377 To [Jean Louis Armand de QUATREFAGES de Bréau]; Down (type 7) (pink paper)	[ca. 1869-1881]	ALS; 8.25 B D25.11 x5.5 2p.
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A German friend has asked for complete list of CD's publications, so sends copy of list to corr., though fuller than required; thanks for "the interest...taken about my election [to the French Académie des Sciences]"; number of votes for CD, published in newspapers and owed to efforts of corr., was "far higher than I had expected."

Other Descriptive Information

1. CD began to use Beckenham in his address in 1869 and he died in April, 1882. He was elected a correspondent of the botanical section of the French Academy on August 5, 1878, after years of balloting.

378 To the Secretary [of the American Philosophical Society, Charles B. TREGO]; Down (type 5)	1870 Feb. 5th	ALS; 8 x5; 506.73 Am 4 1p., end. le VOL.I #340 [Read March 4, 1870/ accepts]
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Thanks for letter of October 15, informing CD of election to membership in APS; accepts with thanks.

[?1870]	LS; 8.25 B D25.4 x5.25 5p.
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379 To [Jean Louis Armand de
QUATREFAGES de Bréau]; Down (type 7)
(pink paper)

Thanks for volume containing "wonderfully clear & able discussion" and fair treatment of CD; ¹ repeated mention of CD is gratifying; first two parts are "overly supportive" of CD; in subsequent parts, strictures are severe but fair; agrees about some criticisms; does not think *Parus* and nuthatch (or *Sitta*) are directly related, as French translation [?of Darwin, *Variation under Domestication* (1868)] implies; *Canis Magellanicus* is too foxlike in appearance and voice to be a feral domestic dog; "It is curious how nationality influences opinion: a week hardly passes without my hearing of some naturalist in Germany who supports my views, & often puts an exaggerated value on my works; whilst in France I have not heard of a single zoologist except M. [A.] Gaudry (and he only partially) who supports my views"; hopes to influence French "embryo naturalists"; thanks for lectures; ² thanks for kindness to son George [i.e. George Howard Darwin] in Paris.

Other Descriptive Information

1. Quatrefages, *Charles Darwin et ses Précurseurs Français...* (Paris: Baillière, 1870). Year for letter determined by this publication date.
2. See Vorzimmer, *Reprint Catalogue*, item Q.134.

380 To J[ames] P[hilip] Mansel WEALE; Down (type 5)	1870 July 30 [pmk. JY 30/ 70]	LS; 8 x5; 4p. B D25.251 and env., add. [J. P. Mansel Weale Esq/ Brooklyn/ near King William's Town/ Kaffraria], end. [Letter on Disperis &c collected/ on Kagaberg Bedford/ 1868/70]
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Thanks for letter of May 25 and for MS., drawings, and specimens; sent latter three to Linnean Society, but there will be no meeting until November; was most struck by what Weale says about parallelism of *Disa* and *Ophrys*, about structure and three nectaries of *Disperis*, about contraction of caudicles, about mares and asses, about acrid secretion from the Soldier-termes, and about case of bee's nest; Linnean is backlogged and impoverished, so they may not publish papers; papers could be condensed; few are interested in fertilization of flowers; sorry to hear bad account of Weale's colony.

1

Other Descriptive Information

1. See: Weale, "Notes on a Species of *Disperis* Found on the Kagaberg, South Africa," *J. Linn. Soc. (Bot.)*, 13 (1870-1872): 42-45; *idem*, "Some Observations on the Fertilization of *Disa macrantha*," *ibid.*, 45-47; *idem*, "Notes on Some Species of *Habenaria* Found in South Africa [abstract]," *ibid.*, 47-48; and *idem*, "Observations on the Mode in Which Certain Species of Asclepiadeae are Fertilized [abstract]," *ibid.*, 48-58. All papers communicated by CD and read on November 3, 1870. See also: [Weale], "Natural History Notes from South Africa," *Nature, Lond.*, 10 (1874): 486-87; and Darwin, *Descent of Man* (1871), I, 416-17.

381 To [David] FORBES; Down (type 5) [1870] ALS; 8 x5; B D25.12
3p.

Thanks for proof sheets (to page 272) of Forbes's paper on the Aymara; ¹ has had to alter little; will refer readers to Forbes rather than giving details; ² on page 221, ten lines from bottom, for "longer" read "shorter".

Other Descriptive Information

1. Forbes, "On the Aymara Indians of Bolivia and Peru," *J. Ethnol. Soc. Lond.*, 2 (1870): 193-305. Year for letter determined by this publication date.
2. See Darwin, *Expression of the Emotions* (1872), 232, 318, and 336.

382 To [Jean Louis Armand de QUATREFAGES de Breau]; Down (type 7) 187[0] LS; 8.25 x5.25 3p. B D25.145
(yellow paper)

Hesitates to write because "private interests are as nothing"; ¹ thanks for interest shown in CD's election to "your Academy [i.e. Academie des Sciences]"; ² thank [Henry] Milne-Edwards for honor conferred upon CD; sees in last number of Revue that Milne-Edwards believes that "existing

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species are the modified descendants of extinct species. Such an admission seems to me very much more important than whether natural selection has been a more or less efficient means of change; though for my own part I shd never have been able to admit the evolution of species, unless I cd have partly explained to myself how the innumerable & beautiful adaptations, which we see all around us, had originated";³ while [Jean Baptiste Armand Louis Leonce] Élie de Beaumont calls CD's science "frothy", his own bubbles first of craters of elevation and second of direction of mountain chains according to age have "burst & vanished into thin air" everywhere but France; next book [i.e. *Descent of Man* (1871)], due in two or three months, will displease corr., but will send copy of it anyway, because corr. knows CD publishes "only what I believe to be the truth, after mature consideration."

Other Descriptive Information

1. CD is lamenting the publication of Quatrefage's confidential remarks; see "Darwin before the French Academy," *Nature*, 2 (1870): 298. Year for letter determined by this publication date, plus those others of 1870 below.
2. See Robert E. Stebbins, "France," in Thomas F. Glick, ed., *The Comparative Reception of Darwinism* (Austin: Univ. of Texas Press, 1974), *passim*, esp. 146-48.
3. Milne-Edwards, "Sur les travaux de Ch. Darwin," *Revue scient., Paris*, 7 (1870): 591.

383 To [Philip Lutley] SCLATER; Down (type 5)	[1870] August 30th	ALS; 6 3/4 B D25.82 x5; 1p. and end. [136/ sending an/ article on/ a woodpecker] (enclosure wanting)
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Submits enclosed note concerning the woodpecker of the plains to the Society for publication versus [William Henry] Hudson.

384 To [John Frederick William HERSCHEL] ¹ ; Beckenham/ Kent S.C. [<i>sic</i>]	1870. Octr 6.	Copy of L; 7 B D25.123 #2 x4.5 2p.
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Cannot correct the little Manual; is unwell and is leaving for rest; upon return, must correct proofs of work on hand; ask Professor [John] Phillips to revise the essay and append his own name; Phillips's geological knowledge is more up-to-date than CD's. ¹

Other Descriptive Information

1. See Darwin, "Geology," in Herschel, ed., *A Manual of Scientific Enquiry...* (1849), 156-95. In the 1871 edition of this article, the essay was revised by Phillips. When this letter appeared, CD was working on proofs of *Descent of Man* (1871); see *Life and Letters* III, 120.

385 To [William Darwin] FOX; Down (type 5) (distinctive gray ink used)	[1870]	ALS; 8 x5; B D25.130 4p.
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Supposes Fox now at Isle of Wight; winter has come with a vengeance; wife [Emma Wedgwood Darwin] wrote about governesses after receiving letter of October 28; supposes Fox was unable to come to Down; is ill from correcting proofs of two volumes [of *Descent of Man* (1871)]; owes many facts in book on sexual differences of birds to Fox; will send copy when published, even though Fox will probably disapprove about origin of man; "It is very delightful to me to hear that you, my very old friend, like my other books, & you were one of my earliest masters in Nat[ural] History"; is weak, feels "each job as finished must be my last."

Other Descriptive Information

1. Proofs of *Descent of Man* were corrected in late 1870; see "Darwin's Journal," 18.

386 To [Charles] LYELL; Down (type 5)	[1870] Dec. 25th [pmk. DE 26/ 70]	ALS; 8 x5; B D25.L1 1p. and env., add. [Sir C. Lyell Bart./ 73 Harley St/ London/ W.], end. [C. Darwin]
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Thanks for new book [i.e. Lyell, *The Student's Elements of Geology* (London: John Murray, 1871), advance copy]; will look at it when finished correcting proofs [of Darwin, *Descent of Man* (1871)]; has only one short chapter of proofs to go.

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387 To [George] BUSK; Down (type 5) [1871] March 12th ALS; 8 x5; B D25.41
4p.

Thanks for explaining blunder; [George] Rolleston had already written to correct the confounding of the two foramina, so latter 2,000 copies [of Darwin, *Descent of Man* (1871)] have been corrected, but this is not even noticed in errata of first and larger lot; regarding mistaken notion that supra-condyloid foramen was present in anthropomorphous apes, was led to error because [St. George Jackson] Mivart says it is present in Anthropeidea, and CD incorrectly assumed that Anthropeidea were apes nearest allied to man; will strike out or qualify strongly the passage on supra-condyloid; thinks remarks on what [Thomas Henry] Huxley calls the inter-condyloid are applicable; new reprint or new edition [of Darwin, *Descent of Man* (1871)] will be out at end of upcoming week; will send a copy to Busk.

388 To [Thomas Roscoe Rede STEBBING] [1871] ALS; 8 x5; B D25.132
1; Down (type 5) 3p.

Thanks for essays; glad they were published in book; ¹ thinks they will do good; esteemed those read some time ago when sent separately; corr. is bold to publish them; corr.'s preface is gratifying; offers corr. a copy of Darwin, *Descent of Man* [(1871)].

Other Descriptive Information

1. See Stebbing, *Essays on Darwinism* (London: Longmans, Green, and Co., 1871). Year for this letter determined by this publication date. See also letter to Stebbing, March 3, 1869, above. This letter was purchased as a part of a collection with many other letters to Stebbing.

389 From Anne [Henslow] BARNARD; 1871 March 30th.. ALS; 7 x4.5 B D25.184
Bartlow Leekhampton Cheltenham 5p., sketch

Has not seen CD since she was child; Darwin, *Descent of Man* [(1871)], reminds her of event of interest to CD; on October 20, 1852, visited Colchester idiot asylum with father, Professor [John Stevens] Henslow; saw there a girl with pointed ears, as in accompanying sketch; ears not quite like those of donkey, but similar; girl may still be in asylum.

390 To [Anne Henslow] BARNARD; [1871] ALS; 8 x5; B D25.183
Down (type 5) 1p.

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Thanks for letter; has written to doctor of large asylum about pointed ears, but has not yet received reply; "To the last day of my life I shall think of your Father [John Stevens Henslow] with the deepest respect, and affection, & gratitude for his invariable kindness towards me."

Other Descriptive Information

1. See preceding letter, above.

391 To P. B. MASON; Down (type 5)	[1871] March 31st [pmk. MR 31/ 71]	ALS; 8 x5; B D25.134 4p. and env., add. [P. B. Mason Esqr/ Burton-on- Trent.]
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Thanks for prompt information; in next edition of book [?*Descent of Man* (1871)], will quote statement, new to CD, about hair on back; wants quantitative data on this; Mason's suggestion about size of male infants is good; should be able to find data in Dr. [?James Matthews] Duncan's paper in *Trans. R. Soc. Edinb.*; Mason's solution cannot apply to "the whole case", because male infants have higher mortality rate than female.

392 To [Frederick HARRISON]; Down (type 5)	[1871]	ALS; 8 x5; B D25.118 3p.
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Thanks for note and for writing at some length; will consider information when preparing corrected edition [of Darwin, *Descent of Man* (1871)]; cannot make major revisions now because printers are printing off too quickly; will reiterate caution that "beauty" as used by CD does not mean "the highly complex & lofty notions implied by *cultivated* [*sic*; ?cultured] men"; capacity of enjoying beauty is acquired; thinks corr.'s remarks on "quasi-selection of opinions & judgments for admiration by society" are just; "I have made too much of natural selection, though less than some who agree with me generally on such points"; would like to read anything corr. publishes on these subjects.

Other Descriptive Information

1. Year determined by date of publication of *Descent of Man*. Corr. identified by autograph dealer who sold letter.

393 To [?Jurgen Edward] PFEIFFER; no location	[1871 April 27] [pmk. AP27/ 71] [Filed with # 302]	Env. only; B D25.208 address reads "Mr. Pfeiffer/
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Mayfield/
West Hill/
Putney/
London S.W."

394 To [William O.] OGLE; Down (type 5) [1871] April 29th [pmk.
AP30/ 71]

ALS; 8 x5; B D25.59
3p. and env.,
add. [Dr.
Ogle/ 34
Clarges St./
Piccadilly/
London/ W.]

Printed in full, with minor changes: *Life and Letters* III, 143.

395 To?; Down (type 6)

[?1871]

ALS; 8 x5; B D25.236
1p.

Thanks for curious anecdote about dog; will not amplify the part of Darwin, [?*Descent of Man* (1871)] in question.

Other Descriptive Information

1. Year determined by Down address variant used. Of the five years during this variant was used, only in 1871 was the address printed to the right side of the first page of the letterhead, as was done with this letter. In other years, it was printed in the center.

396 To?; Down (type 6)

[?1871]

ALS; 8 B D25.143
x5; 2p.
(enclosures
wanting)

Thanks for extracts, new to CD because he rarely sees a foreign paper; was amused by some extracts; three stanzas about the Ascidians are charming; wants more such extracts if they should appear; encloses two photographs of himself.

Other Descriptive Information

1. Year determined by Down address variant used. Address is printed to right, which only happened in 1871.

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397 To [Edward SUESS]; Down (type 6) [1871] ALS; 8 x5; B D25.99
3p.

Acknowledges election as foreign honorary member of "the Imperial Academy" [of Austria]; finds this gratifying after the contempt shown by the Paris Institute [i.e. Academie des Sciences]; sorry corr. is ill from last expedition; thanks for word about "your late celebrated Admiral [Wilhelm von] Tegetthoff." ¹

Other Descriptive Information

1. Down address variant used is printed to right side--a combination unique to 1871. Tegetthoff died in 1871. CD was elected a foreign corresponding member of the Imperial Academy of Sciences of Vienna in 1871; see *Life and Letters* III, 374. He was not elected an honorary foreign member until 1875.

398 To?; Down [?1871] ALS; 8 x5; B D25.218
4p.

Women in labor close the orbicular muscles around their eyelids; does this contraction cause tears to flow towards the end of parturition; does similar contraction during violent retching cause tears; do " `Pulver [Maclers?] Volta-Electric Chain bands' " help in cases of "dyspeptic & nervous weakness"; man who sells this aid quotes Sir C[harles] Locock, H[enry] Holland, [Robert] Ferguson, and others; is it quackery and lies, or is it "worth trying as an experiment?" ¹

Other Descriptive Information

1. On the production of tears, see Darwin, *Expression of the Emotions* (1872), 159ff., esp. 165. This passage was written in 1871, which is reason for year for this letter.

399 To J. Traherne MOGGRIDGE; Down [1871] June 22nd [end. June LS; 8 x5; 6p. B D25.31
(type 6) 24 1871; pmk. JU23/ 71] and env., add.
[J. Traherne
Moggridge
Esq/ 8
Park Hill/
Queen's Road/
Richmond/
Surrey],
end. [Ch.

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Darwin/ recd.
at Richmond/
June 24 1871]

Thanks for letter containing new facts; hopes Moggridge continues to observe ants; read [Jean] P[ierre] Huber, *Recherches sur les Moeurs des Fourmis [Indigenes]* (Paris: 1810); published extract of letter from Texan on ants storing and planting seeds in *J. Linn. Soc.*; [Richard] Kippist [Linnean's librarian] could find it; glad Moggridge will compile notes on variability of certain plants; thinks fly ophrys is inconspicuous, inodorous, and unattractive to insects because, in most cases, not all its flowers are fertilized; compare seeds of fly ophrys specimens fertilized in natural way by insects to those of plants fertilized thoroughly and artificially to see if latter are larger and more robust; is ill, like Moggridge.

400 To M[ichael] FOSTER; 6 Queen Anne [1871] June. 26 [pmk. JU26/ ALS; 8 x5; B D25.244
St. W. 71] 4p. and env.,
add. [Dr. M.
Foster/ 5.
Vanburgh
Park Road/
Blackheath.]

Invites corr. to visit CD; returns to Down Friday or Saturday [June 30 or July 1]; will take a month's vacation a fortnight after that; ¹ wants some curare, if soluble in water or vegetable acids; ² wants to know how much to dilute curare; [Thomas Henry] Huxley could not help about curare, so he suggested Foster.

Other Descriptive Information

1. CD vacationed at Haredene, Albury Heath; see: *Life and Letters* III, 150; *Emma Darwin*, II, 245; and "Darwin's Journal," 18.
2. See Darwin, *Insectivorous Plants* (1875), chap. IX *passim*, esp. 204-05 and 223-24.

401 To M[ichael] FOSTER; Down (type 6) [1871 June] 29 [pmk. JU29/ ALS; 8 x5; B D25.104
71] 1p. and env.,
add. [Dr. M.
Foster/ 5.
Vanburgh

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Park Road/
Blackheath]

Thanks for curare; what Foster says about amoebae is "a damper".¹

Other Descriptive Information

1. See preceding letter, above.

402 To [John Dean CATON]; Down (type 6) 1871 July 20th ALS; 8 x5; B D25.254
2p.

Bearers of this note are CD's two sons [George Howard Darwin and Francis Darwin],¹ who are touring [United] States; please extend aid to them and show them corr.'s "famous Deer-park";² sent copy of Darwin, *Descent of Man* (1871).

Other Descriptive Information

1. See *Emma Darwin*, II, 250 and 250n.

2. See Caton, *The Antelope and Deer of America...*, 2nd ed. (New York: Forest and Stream Publishing Company, 1877), esp. ix. Recipient of this letter determined by this reference to deer park.

403 To [John] Royle MARTIN; Down (type 6) 1871 Sep 15. LS; 8 x5; 2p. B D25.132
(enclosures wanting)

Thanks for letter of 12th; takes ten shares in Artizan's Dwelling Company; will send check for L 100.

404 To?; Down (type 6) [1871] Oct. 10th ALS; 8 x5; B D25.132
2p.

Experiment suggested by corr. is not worthwhile; any difference in the duration of human bones would have been detected already in old bones found in caverns and tumuli and in mummies; [Thomas Henry] Huxley has sent an *admirable* review of [St. George Jackson] Mivart's book to the Contemporary for the November number; ¹ is preparing new [sixth] edition of Darwin, *Origin* [(1872)].

Other Descriptive Information

1. See: Mivart, *On the Genesis of Species* (London: Macmillan, 1871); and Huxley, "Mr. Darwin's Critics," *Contemporary Review*, 18 (1871): 443-76, issued November, 1871.

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405 To?: Down (type 6) [ca. 1871-1875] ALS; 8 x5; B D25.79
1p.

Thanks for letter of January 6; declines to join movement mentioned by corr., since CD is ignorant of the arguments on either side of the issue.

Other Descriptive Information

1. Years determined by Down address variant used. This method first suggested for this letter by Sydney Smith, St. Catharine's College, Cambridge University.

406 To?: Down (type 6) [ca. 1871-1875] ALS; 8 x5; B D25.219
1p.

Lists gold and silver pheasant in table of authentic crosses among the Phasianidae, drawn up several years ago, but has by accident omitted this case [in recent publication]; would not have introduced it without fairly good evidence; hopes corr. will publish case.

Other Descriptive Information

1. Years determined by Down address variant used.

407 To [Thomas Campbell] EYTON; [ca. 1871-1875] ALS; 8 x5; B EY83 v.2,
Down (type 6) 2p. and end. p.75
[1647 to 73/
Original
Sketch/4th
(Amsl.?)
1676/ another
1686]

Thanks for letter; story must be "a cock & a Bull," since [Robert] Swinhoe, who knows Formosa well, would have heard of it otherwise; would like extract to send to Swinhoe, now in China; discusses health.

Other Descriptive Information

1. Years determined by Down address variant used.

408 To?: Down (type 6) [ca. 1871-1875] ALS; 8 x5; B D25.25
1p.

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Would be happy to read paper, but is a poor critic; believes all he reads until long reflection causes doubts; finds such reflection hard work nowadays; has no mathematical knowledge.

Other Descriptive Information

1. Years determined by Down address variant used.

409 To [Léo Abram ERRERA]; Down (type 6)	[ca. 1871-1875]	ALS; 8 x5; B D25.224 1p.
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Thanks for exertions in CD's behalf; regrets waste of corr.'s time.

Other Descriptive Information

1. Years determined by Down address variant used.

410 To?; Down (type 6)	[ca. 1871-1875]	ALS; 8 x5; B D25.132 1p.
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Orders a "Vulcanized Indian-Rubber Enema of medium size."

Other Descriptive Information

1. Years determined by Down address variant used. The following persons helped to date this letter: Sydney Smith, St. Catharine's College, Cambridge University; Sir Hedley Atkins and Philip Titheradge, Down House; and Dr. Ralph Colp, Jr., New York City.

411 To [John Edward] GRAY; Down (type 6)	[ca. 1872]	ALS; 8 x5; B G784 1p.
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Remembers "reading in Molina about the Huemul"; ¹ asked about it in southern parts of South America, concluded it did not exist; must be rare; glad Gray has made out what it is; ¹ regards to Mrs. [Maria Emma] Gray.

Other Descriptive Information

1. See: Giovanni Ignazio [i.e. Juan Ignatius] Molina, *The Geographical, Natural and Civil History of Chili*, 2v., tr. from the original Italian (London: 1809); and Gray, "On the Guémul (*Huamela leucotis*)," *Ann. Mag. nat. Hist.*, 10 (1872): 445-46; and 11 (1873): 214-20 and 308-10. Discussion is about the guemal, or South American deer. Year for letter determined by date of publication of Gray's paper.

412 To Messrs. Appleton & Co.; Down (type 6)	1872 March 16.	ALS; 7 x4.5 B D25.138 3p.
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Thanks for letter of February 23; is gratified about sale of CD's works; thanks for payment of L 427-13-8, to be sent by Mr. Layton; is glad Darwin, *Journal [of Researches]* sells well.

413 To?; Down (type 6) 1872 Ap 8. LS; 8 x5; 2p. B D25.195

Thanks for paper and kind remarks; had read [Harriet] Martineau's book [*The Positive Philosophy of Auguste Comte*, freely translated and condensed by H. Martineau (1853)] and others on [Isidore Auguste Marie Francois Xavier] Comte, but had forgotten Comte's observations on relations of man to the lower forms of life.

414 To?; Down (type 6) [1872] April 12th [end. ALS; 8 x5; B D25.205
1872./ April 13.] 1p. and end.
[1872./ C.
Darwin/ Kent/
April 13
(and) 1872/
C. Darwin/
Down/ Apr
15] and
attached
enclosure ¹

Orders the following: J[ohn R.] Leifchild, *The Higher Ministry of Nature...* ([London]: Holder & Stoughton [sic; Staughton], [1872]); Erm Müller, *The Application of the Darwinian Theory to Flowers, and the Insects Which Visit Them* (Salem, Mass.: Naturalists' Agency, n.d.); ¹ and James [Bradbridge] Hunter, "A Review of Darwin's Theory" (New York: Appleton and Co., [1871]), previously ordered, and which CD is anxious to get. ²

Other Descriptive Information

1. Enclosure is a broadside advertisement for Müller's book. Müller's publication is reprinted from *Am. Nat.*, 5 (1871): 271-97. See also Vorzimmer, *Reprint Catalogue*, item R.212.
2. The review appeared in the *Journal of Psychological Medicine*; see Vorzimmer, *Reprint Catalogue*, item R.213.

415 To [Charles] LYELL; Down (type 6) [1872] May 10th ALS; 8 x5; B D25.L
4p.

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Printed in full, with minor changes: *More Letters*, I, 336-37 (letter 250). p. 336, line 9, and p. 337, line 1, change "a higher grade" to "higher grades".

416 To [Charles] LYELL; Down (type 6) [1872] ALS; 8 x5; B D25.L
2p.

Thanks for letter; see Darwin, *Origin* [(1872)], new edition, pp. 332 and 348, for remarks "on forms not changing when migrating in a body"; some naturalists think this view true; read Prof. [Friedrich Leopold August] Weismann, *Ueber den Einfluss der Isolirung [auf die Artbildung]* (Leipzig: [Wilhelm Engelmann], 1872); Lyell has had a grand tour. ¹

Other Descriptive Information

1. The Lyells had gone to France; see *Life of Lyell*, II, 438. This, plus date of publication of sixth edition of *Origin*, determine year for this letter.

417 To "Madam"; Down (type 6) 1872 May 23 LS; 8 x5; 4p. B D25.6

Thanks for letter; will help corr. if possible; wrote to judge at Crystal Palace for dates of reports and information about books on cats; does not know of works exclusively on larger felines; read [Alfred Edmund] Brehm's *[Illustriertes] Thierleben* [6v. (Hildburghausen: Bibliographisches Institute, 1864-1869)], which has been translated into French; thanks for information about fertility of crossed Angora and common cats; does not think characters of two fathers can be transmitted to single individual, but new paper by Fritz Müller indicates this is possible; thanks for book, which CD hopes will discuss expression of emotions in cats.

418 To [Charles] LYELL; Down (type 6) 1872 June 1 LS; 8 x5; 2p. B D25.L
(enclosure
wanting)

Thanks for Wood's interesting letter; there is much evidence that varieties of fruit trees transmit characters to a large extent, but Wood's cases exhibit exceptionally close identity; [Joseph] Decaisne has recorded cases of surprising diversity; sterility of Wood's seedlings is most remarkable point; "...if they had been planted separately in good ground, they wd not have been so sterile after early youth"; consider, for example, great fertility of seedling peach trees in Americas and in Australia; returns Wood's letter.

[?1872] LS; 8 x5; 3p. B D25.243

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419 To [?Michael FOSTER]; Down (type 6)

Has read corr.'s little essay; it tells exactly what CD wanted to know, namely, how far our knowledge extended and where we were ignorant; invites corr. to Down; some of CD's sons will be home in week or two; is ill, so can only talk for short periods.

Other Descriptive Information

1. Year determined by Sydney Smith, St. Catharine's College, Cambridge University; address, however, is printed to right side of page, which with this Down address variant usually indicates a year of 1871.

420 To [Charles] LYELL; Down (type 6) [1872] July 12th ALS; 8 x5; B D25.L
4p.

Printed, with minor changes and minor omissions: *More Letters*, II, 164-65 (letter 511).

421 From John T[homas] GULICK; c/o 1872 July 27th Saturday ALS; 7 x4.5 B G96
Mrs Delacour/ Frindsbury Hill/ Rochester/
Kent 4p.

CD's account of Galapagos Islands [in Darwin, *Journal of Researches* (1839)], read long ago, led Gulick to study distribution of species at Sandwich Islands; see Gulick's article in July 18 number of *Nature*; is visiting England; wants to meet CD and show him some land shells from Sandwich Islands, "illustrating the extremely limited distribution of the species, and the continuous gradation of forms from one species into another"; will leave soon for North China and Mongolia.

422 To J[ohn] T[homas] GULICK: Down [1872] July 28th [pmk. ALS; 8 x5; B G96
(type 6) JY29/ 72] 4p. and env.,
add. [J. T.
Gulick Esqr--/
care of Mrs.
Delacour/
Frindsbury
Hill/
Rochester],

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end. [From
Darwin]

Printed in full, with minor changes: Addison Gulick, *Evolutionist and Missionary: John Thomas Gulick...* (Chicago: Univ. of Chicago Press, 1932), 233-34. p. 234, line 1, missing name is "Prof. [Franciscus Cornelius] Donders of Utrecht (whom I could not refuse to see)".

423 To J[ohn] T[homas] GULICK; Down [1872] Aug. 8th [pmk. AU8/ ALS; 8 x5; B G96
(type 6) 72] 3p. and env.,
add. [The
Revd. J.
T. Gulick/
at Mrs.
Delecour/
Frindsbury
Hill/
Rochester.],
end. [From
Darwin]

Printed, with minor changes: Addison Gulick, *Evolutionist and Missionary: John Thomas Gulick* (Chicago: Univ. of Chicago Press, 1932), 234-35. At beginning of letter is: notes crossed on the road; cannot do anything about Gulick's paper; ¹ the secretaries act like judges and demur to any suggestions being made to them; is prejudiced in favor of Gulick's subject. p. 235, line 1, change "Section" to "[Secys.?]".

Other Descriptive Information

1. Refers, perhaps, to Gulick, "Diversity of Evolution under One Set of External Conditions," *Rep. Br. Ass. Advmt Sci.*, 42 (1872), pt. 2: 136. Full paper printed in *J. Linn. Soc. (Zool.)*, 11 (1873): 496-505.

424 To [Joseph Dalton] HOOKER; Down [1872] Aug. 30th [pmk. ANS on p.c.; B D25.113
AU30/ 72] 3 x4 3/4;
1p. and add.
[Dr. Hooker]

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F.R.S./ Kew/
London W.]

Acknowledges check and note; will not send it to bank until after talking with Hooker.

425 To [John Maurice] HERBERT; Down 1872 Nov 21. LS; 8 x5; 4p. B D25.H
(type 6)

Has just published Darwin, *Expression of the Emotions* (1872); has sent Herbert a copy; recalls "jolly old days" at Barmouth and Cambridge; ¹ does Herbert remember anonymously giving CD a microscope; no other event in CD's life "surprised & gratified me more"; is "a confirmed invalid"; wants news of [Charles Thomas] Whitley; has seen S[amuel] Butler, author of *Erewhon...* [(London: 1872)] and son of Tom [i.e. Thomas] Butler; latter has become "a very unpleasant old man."

Other Descriptive Information

1. See *Life and Letters* I, 165-66. Concerning the microscope, see Gavin deBeer, ed., "The Darwin Letters at Shrewsbury School," *Notes Rec. R. Soc. Lond.*, 23 (1968): 73.

426 To?; Down (type 6) 1873 Ap. 7 LS; 8 x5; 2p. B D25.35

Thanks for invitation and for catalogue of corr.'s collection of Cretaceous fossils; would like to see Brighton Aquarium, but poor health forbids it; accepts corr.'s curious instance of inheritance.

427 To [Charles] LYELL; Down (type 6) [1873] ALS; 8 x5; B D25.L
2p.

Thanks for copy of fourth edition of Lyell, [*The Geological Evidences of the*] *Antiquity of Man* [(London: John Murray, 1873)]; will read over the modified or new parts; book seems larger than earlier editions.

Other Descriptive Information

1. Year determined from date of publication of Lyell's book.

428 To G[eorge] CUPPLES; Down (type 6) [1873] June 7th [end. June 10/ 73; pmk. JU7/ 73] ALS; 8 x5; B D25.148
4p. and env.,
add. [G.
Cupples Esqr/
The Cottage/
Guard Bridge/

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Fifeshire/
 N.B.], end.
 [Mr Darwin/
 Recd. June 10/
 73]

Thanks for letter, for former letter, and for report of [Julius] Victor Carus's lecture; is away from home on rest trip; ¹ glad CD's suspicion about [James Hutchinson] Stirling was groundless; was mortified that "so able a man" wrote "with such loathing contempt of me"; has not seen [Ralph Waldo] Emerson; hears that Emerson is charming, but probably does not have much in common with him; "During the last 2 or 3 years we have seen several Yankees, & as a rule they seem a most pleasant set"; was charmed with the Nortons [Charles Eliot Norton and his wife Susan Ridley Sedgwick Norton]; has recommended "Tappy's chickens" to CD's hosts. ²

Other Descriptive Information

1. CD went to Leith Hill Place from June 4 to 12; see "Darwin's Journal," 19.
2. Anne J. Cupples, *Tappy's Chicks and Other Links between Nature and Human Nature...* (London: Strahan & Co., 1872). Anne J. Cupples was the wife of corr.

429 To Dr. [Edward Wickstead] LANE; 1873 June 23. L (postscript B D25.241
 Down (type 6) in CD's hand);
 8 x5; 3p.
 (mutilated)

Thanks for copy of Lane's little book [*Old Medicine and New* (London: 1873)]; will read it soon; owes much to hydropathy, even though it seemed to do harm the last time it was tried; had a pleasant time whenever visiting Moor Park; regards to wife and to "Lady Drysdale [Lane's mother-in-law]". ¹

Other Descriptive Information

1. See *Emma Darwin*, II, 184.

430 To?; Down (type 6) [1873] ALS; 8 x5; B D25.154
 1p.

Is not anatomist enough to say whether corr.'s power is very unusual; moving of the scalp voluntarily is not very important, unless very extreme and inherited.

Other Descriptive Information

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1. Year written in pencil upon original in unknown hand.

431 To [a chemist, but not Hopkin & Williams]; Down (type 6) [1873] ALS; 8.5 x5; B D25.90
2p.

Thinks *chlorides*, instead of *nitrates*, of the various metals would be better for CD's purpose, but only *when such are soluble*; "But it is perhaps too late & nitrates wd. do very well, & are necessary in the case of silver"; send bottle of "Oxley's Essence of Ginger"; send four acids when ready, since CD wants to try them before the metallic salts; send the latter in two lots if it takes long to prepare them.

Other Descriptive Information

1. Date and recipient suggested by Sydney Smith, St. Catharine's College, Cambridge University. This letter follows one dated the previous day, the original of which is now in possession of Baird & Tatlock (London) Ltd., incorporating Hopkin & Williams; copy on file at APS, courtesy of Baird & Tatlock.

432 To [Charles] LYELL; Down (type 6) 1873 Sep. 24. LS; 8 x5; 4p. B D25.L

Thanks for note and for apples, received "only today, as they were directed to Beckenham instead of to Orpington Station"; seedlings from same parent are "wonderfully alike in fruit and leaves; forgets what [Joseph Dalton] Hooker says; reversion to crab-state are exceptional; ¹ wild crabs themselves differ much; see Darwin, *Variation under Domestication* [(1868)], I, 350, and II, 31; inneritance is not as general with apple trees as Wood thinks; ² no one has raised a new Ribstone or Golden Pippin, ³ although seedling by [Thomas] Andrew Knight approaches latter; Wood's most remarkable statement is about sterility of seedlings, since they are several years old; ⁴ it is remarkable that parent trees were not intercrossed, since many flowered simultaneously; if bees carry pollen between trees, then pollen of above-named varieties is prepotent over others, so they have the character of species; would like to fertilize flowers of Hawthornden with pollen from many distinct varieties and to compare resulting seedlings; is ill, under care of [Andrew] Clark; invites Lyell to Down.

Other Descriptive Information

1. Lyell has written in pencil in margin here: "This is my contention".
2. See letter to Lyell dated June 1, 1872, above.
3. Lyell has written here: "but how has the failure occurred. probably from sterility or want of vitality".

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4. Lyell has written here: "(14th year from the first sown)".

433 To [A. MOSCHKAU]; Down (type 6)	1873 Dec 19.	LS; 8 x5; 2p. B D25.180 (enclosure wanting)
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Thanks for letter; returns the enclosed; has alluded to parrots speaking in Darwin, *Descent of Man* [(1871)]; ¹ in new edition, has added good evidence that they understand the words used; will add, on corr.'s authority, the case of the starling; is ill and overwhelmed with letters, so cannot correspond with anyone.

Other Descriptive Information

1. See Darwin, *Descent of Man* (1871), I, 236; and II, 335.

434 To A. [G.] DEW-SMITH; Down (type 6)	[?1873-1875]	ALS; 8 x5; B D25.225 4p. and env., add. [A. Dew Smith Esqr--/ 24. Green St/ Cambridge]
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Son is going to Cambridge tomorrow; takes opportunity to send specimen of *Dionaea* so corr. can observe changes in temperature in plant when it is in action; gives instructions to assure proper measurement; wishes plant were a better specimen, "but I have given away all by best specimens for [John Scott] B[urdon-] Sanderson's electrical experiments, which have proved so wonderful." ²

Other Descriptive Information

1. Down address variant used determines limits of 1871 and 1875. Fact that address is printed in center of page upon paper having a distinctive escutcheon watermark eliminates 1871 and 1872.
2. See Darwin, *Insectivorous Plants* (1875), 318.

435 To [James Philip Mansel WEALE]; Down (type 7)	1874 Jan 8th	LS; 9 x8.25 B D25.252 1p.
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What proportion of leaves of *Pinguicola* [*sic*; *Pinguicula*] have insects adhering to them; send leaves having captured insects, so CD can identify insects caught; observe how secretions from captured insects flow around leaf; do leaves ever capture seeds; if so, send specimens; describe habitat, esp. nearby vegetation, for *Pinguicula vulgaris*.

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436 To Dr. [Andrew] CLARK; 6 Queen [1874] LS; 7 x4.5 2p. B D25.182
Anne St

Has just come to London; please call and see CD.

Other Descriptive Information

1. Date determined by Sydney Smith, St. Catharine's College, Cambridge University.

437 To?O.P.L.; Down (type 7) [1874 ca. February 20] [end. ALS; 9 x7.25 B D25.135
Recd on 20th Febr 1874] 4p., end.
[Recd. on 20th
Febr 1874.
O.P.L.]

Thanks for reference, which CD had lost and is delighted to recover and to quote; will discuss point mooted in corr.'s letter; all organs *necessary* for reproduction are attributed to natural selection; sexual selection occurs only when advantage is gained by struggle between two or more individuals of same sex; males vary more than females; corr. may consider this a result of masculine " `vital force' ", but CD prefers to speak of it as mere variability; this variability does not account for well-marked sexual differences unless variations are accumulated; when sexes are alike, there is no evidence of sexual selection, unless two sexes closely resemble one sex of closely allied form in which sexes differ; if sexes differ much in color, esp. if male is more brilliant, then brightness of male is probably due to sexual selection; evidence of action of sexual selection is only good if one sex displays its colors to the other; individual would not display colors unless this were an advantage, and if it is advantage, this is basis for sexual selection; corr. probably does not think stridulatory organs of insects result from vital force; if such organs result from sexual selection, why not color; [Giovanni] Canestrini says in recent Italian paper that female spiders select a mate from among many males; collected spiders during voyage of *Beagle* and deposited them in British Museum.

438 To [Alfred William BENNETT] ¹; [1874] ALS; 8 x5; B D25.137
Down (type 6) 1p.

Has just heard that corr. has ceased to assist editor of *Nature*; where are wood blocks of climbing plants, which belong to Linnean Society; ² must borrow them before long, and they might get mislaid at Macmillan's.

Other Descriptive Information

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1. For year and recipient of this letter, see: A. J. Meadows, *Science and Controversy: A Biography of Sir Norman Lockyer* (Cambridge, Mass.: The M.I.T. Press, 1972), 31-32; and *DNB*, second supplement, *I*, 143-44.
2. CD refers to the thirteen illustrations for Darwin, *Climbing Plants* (1865).

439 To [John] PHILLIPS; Down (type 7) [1874] LS; 7 x4.5 2p.B D25.123 #4
(black border) ¹

Thanks for invitation, but journey to Oxford would "nearly annihilate" CD; corr.'s sketches indicate only a big theory would equal corr.'s fossils; ¹ will watch for published account; remembers pleasant hours spent with corr. at York. ¹

Other Descriptive Information

1. This letter is, apparently, a reply to a letter to CD dated March 14, 1874, which is located in the Robin Darwin Deposit, University Library, Cambridge; the earlier letter contains sketches. The black border may result from death of CD's wife's sister-in-law, Frances Mosley Wedgwood; see *Emma Darwin*, I, xxvii. The trip to York was in 1845; see *Life and Letters* I, 343-44. Information provided by Sydney Smith, St. Catharine's College, Cambridge University.

440 To?; Down (type 6) [1874] Ap. 13th [end. 1874/ ALS; 8 x5; B D25.83
April 16] 1p. and end.
[1874/ Ch.
Darwin Esq/
Down/ April
16] (enclosure
wanting)

Encloses check; wants the "Flora" (German), for the year 1873, numbers 28 and 29; will accept entire volume if necessary.

441 To Leonard RUDD; Down (type 6) [1874] Ap. 18th [pmk. ALS; 8 B D25.159
AP18/ 74] x5; 1p. and
fragment of
env., add.
[Leonard
Rudd Esq/

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Guy's
Hospital/
London/ *S.E.*]

Thanks for case of additional mammae; abnormality of this sort is not rare; that mammae enlarge every month is quite new, but does not understand its meaning; this does not occur commonly with women.

442 To [Charles] LYELL; Down (type 6) [1874] ALS; 8 x5; B D25.L
1p.

Thanks for note and that of [George Julius Poulett] Scrope; "What you have done ¹ may be the first step in an admirable plan"; thinks bequest shows wisdom and would do same, if CD had fewer sons; enjoyed Lyell's visit to Down; is glad Lyell sent [Anton Felix] Dohrn's paper to Scrope.

Other Descriptive Information

1. Lyell was bequeathing a large sum to science; see *Life of Lyell*, II, 477-78. Year determined from this information.

443 To?; Down (type 6) [1874] July 13th ALS; 8 x5; B D25.144
2p.

Utricularia arrived safely; was unwell, so son [?Francis Darwin] took charge of specimens and worked at bladders; it will be difficult to make out the function of parts; will his great experience on Desmids under the microscope, corr. knows that one's brain must be clear and hand steady to do anything on difficult structures.

444 To [George John ROMANES]; Down (type 6) 1874 July 16 LS; 8 x5; 4p. B D25.N

Printed in full, with changes: *More Letters*, I, 354 (letter 264). line 1, change "your kind and long communication" to "the copy of your long letter". ¹ line 4, change "much" to "at present". lines 7/8, change "some later time, when I may again take up the subject. Your letter" to "a future time. It". line 11, change "through so-called" to "through mere so-called". line 16, illegible word is "severe".

Other Descriptive Information

1. For long letter from Romanes, see *More Letters*, I, 352-54 (letter 263).

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445 To [Bartholomew] PRICE; Abinger [1874 July] ALS; 8 x5; B D25.54
Hall/ Wotton/ Surrey ¹ 2p.

Thanks for specimen of *Utricularia*, which CD presumes is from corr.; obtained microscope at Abinger, concludes that there is essential similarity [between specimen received and some other specimens], but with some important differences; five of the largest bladders contained dead Entomostraca: 24, 20, 15, 10, and 7 victims respectively; "What slaughter!"; leaves on Thursday [July 30] for three weeks at house of son [William Erasmus Darwin] at Bassett, Southampton.

Other Descriptive Information

1. Down address variant, type 6, has been crossed out. Date for letter determined by Abinger address; see "Darwin's Journal," 19-21.

446 To [George John ROMANES]; [1874] ALS; 7 x4.5 B D25.N
Abinger Hall/ Wotton. Surrey (Post Town)/ 1p.
Gomshall (Station) S.E.R. [embossed] ¹

Thanks for letters; "I have so poor a metaphysical head that Mr [Herbert] Spencer's terms of equilibration &c always bother me & make everything less clear".

Other Descriptive Information

1. Year determined by Abinger address; see "Darwin's Journal," 19-21.

447 To?; Bassett/ Southampton. ¹ [1874] ALS; 8 x5; B D25.119
1p. (mutilated)

Is glad hop interests corr.; numerous almost small angular bodies, which CD imagined to be ovules, are worth corr.'s attention; would be proud to appear in an engraving in *Gardeners' Chron.*; is taking a three-week rest.

Other Descriptive Information

1. Year determined by Bassett address. Only year in which CD was there on August 7 was 1874; see "Darwin's Journal," 19. Down address variant, type 6, is crossed out.

448 To [Charles] LYELL; Down (type 6) [1874] Sept. 3d ALS; 8 x5; B D25.L
4p.

Printed in full, with minor changes: *More Letters*, II, 237-38 (letter 571).

1874 Sep 7. LS; 8 x5; 3p. B D25.7

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449 To Lady Dorothy [Fanny Walpole]

NEVILL; Down (type 6)

Thanks for *Drosera* plant; does corr. have specimen of epiphytic *Utricularia*, which produces minute bladders only when making fresh shoots or leaves?

450 To [Charles] LYELL; Down (type 6) 1874 Sep 23.

LS (postscript B D25.L
in CD's hand);
8 x5; 3p.

Printed, with minor changes: *Life and Letters* III, 190. line 14, missing sentence is: "I have just begun Mr [Thomas Francis] Jamieson's paper, ¹ which seems to me very interesting & I shd think true." At end of letter is: [Robert] Mallet will not like to hear of palaeozoic true sub-aerial explosive volcanoes.

Other Descriptive Information

1. "On the Last Stage of the Glacial Period in North Britain," *Q. Jl. geol. Soc. Lond.*, 30 (1874): 317-38.

451 To [?James Crichton BROWNE] ¹;
Down (type 6) 1874 Oct. 8th

ALS; 8 x5; B D25.266
1p.

Thanks for West Riding Asylum Report; notes excellent article and photograph by corr. ¹

Other Descriptive Information

1. Browne was director of the West Riding Pauper Lunatic Asylum in Yorkshire and editor of the *Medical Reports of the West Riding Lunatic Asylum*. CD owned at least volumes 1, 2, and 5; see *Darwin Library: List of Books Received in the University Library, Cambridge, March-May 1961* (Cambridge: University Library, Cambridge, 1961), under "West Riding".

452 To [Daniel] OLIVER; Down (type 6) 1874 Oct 14th

LS; 8 x5; 2p. B D25.88

Thanks for aid and information; plants arrived safe; will set to work in two days and will then return them; thank [Joseph Dalton] Hooker when he returns.

453 To [George John ROMANES]; 2
Bryanston St/ Portman St ¹ [?1874 December 7]

ALS; 8 x5; B D25.N
1p.

Would like to meet corr.; planned to visit Brown Institution; come for lunch on Wednesday.

Other Descriptive Information

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be very difficult to get people to see vast importance of graft-hybrids, as throwing light on sexual generation."

To [George John] ROMANES; Down.

[\[http://cdm.amphilsoc.org/u/?bio,13\]](http://cdm.amphilsoc.org/u/?bio,13)

456 To [George John] ROMANES; Down 1874 Dec 23.

(type 8)

LS; 8 x5; 1p. B D25.N

(enclosure
wanting)

As enclosed shows, [Joseph Dalton] Hooker wishes to help Romanes, so call at Kew soon. ¹

Other Descriptive Information

1. See preceding letter, above. Romanes had visited Hooker by January 14, 1875; see *Life of Romanes*, 19-20.

457 To [George John] ROMANES; Down 1874 Dec 27th

(type 8)

LS; 8 x5; 2p. B D25.N

Is glad the letter from [Joseph Dalton] Hooker pleases Romanes; ¹ Hooker is "the best & kindest man I have ever known"; grafting of ears of rabbits would be almost impossible, since rabbits would not remain quiet afterwards; supposes Romanes will use chloroform; comb of fowl, especially Spanish breed, is strongly inherited and thus well fitted for experiment; supposes birds could be chloroformed.

Other Descriptive Information

1. See preceding letter, above.

458 To [William Bernhard]

TEGETMEIER; no location

[ca. 1874]

Printed form B D25.24
letter, with
autograph
insertions,
S; 8 x5; 3p.,
add. [Mr.
Tegetmeier,
346, Strand,
London,
W.C.]

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Orders Boddaert's *Table des Planches Enluminees*.

Other Descriptive Information

1. Date determined by Sydney Smith, St. Catharine's College, Cambridge University. A letter from CD to Tegetmeier dated April 5, 1874, on deposit at New York Botanical Gardens, begins with "Many thanks for Boddart."

459 To [?William] MARSHALL; Down [ca. 1874-1879] ALS; 8 x5; B D25.65
(type 9) 1p.

Miserable summer caused acorns to drop off cork tree; will consult J[oseph Dalton] Hooker to see whether *Quercus rubra* or *Q. coccinea* is handsomer and will have one sent to corr. "for my own honour & glory."

Other Descriptive Information

1. Down address variant used determines absolute endpoints of 1874 and 1882. CD died in April, 1882. CD's handwriting became decidedly shakier in 1880, and this letter is in a steady hand.

460 To [William O.] OGLE; Bryanston St-- [ca. 1874-1880] ALS; 8 x5; B D25.60
Portman St ¹ 1p.

Called on Ogle in morning, but he was out; invites corr. to lunch on Sunday.

Other Descriptive Information

1. Down address variant, type 8, is crossed out. This letter is written in steady hand; shaky hand began sometime in 1880.

461 To [George John] ROMANES; Down [1875] LS; 8 x5; 1p. B D25.N
(type 8)

Has received German journal from Berlin containing several accounts of graft-hybrids produced not by splicing but by inserting bud of one potato tuber into another kind of tuber; results are clear and are compared with sexual generation; offers journal from Germany to Romanes.

Other Descriptive Information

1. For Romanes's reply, see *Life of Romanes*, 19-20.

462 To [A. G. DEW-SMITH]; Down (type 1875 Jan 19th 8) LS; 8 x5; 2p. B D25.227

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Thanks for letter with account of Zoological Station in Naples; tell [Michael] Foster to publish [Anton] Dohrn's letter and circular as they stand; publish list of donors and amounts subscribed; remembers disappointment in past when he subscribed to something and then did not hear any news of the project's success.

463 To Lady Dorothy [Fanny Walpole] 1875 Feb. 15 LS; 8 x5; 2p. B D25.8
NEVILL; Down (type 8)

Thanks for note; will not be in London until late spring [actually, March 31]; is busy on *Insectivorous Plants* [(1875)]; just acknowledged corr.'s aid in chapter on *Utricularia* [page 431], proofed in morning.

464 To?; Down (type 8) 1875 March 7 LS; 8 x5; 1p. B D25.153

Thinks corr. wrote article on CD in *Gardeners' Chron.*; thanks for the honor.

465 To [George John] ROMANES; 2 [1875] ALS; 8 x5; B D25.N
Bryanston St. ¹ 3p.

[Thomas Henry] Farrer's gardener has cut-leaved vines almost ready; ² will send them to Romanes in Scotland; [Thomas Henry] Huxley and Lawson Tait will be at Down on 18th; invites Romanes to come to meet them on Saturday the 17th; do not discuss experiments on animals before Darwin women, since it would horrify them.

Other Descriptive Information

1. Down variant address, type 8, is crossed out on top, and a little hand is drawn in which points to the lower half of the printed address. The only year in which CD was at Bryanston Street on April 7 was 1875; see "Darwin's Journal," esp. 19. In addition, April 17, 1875, was a Saturday.

2. See letter to Romanes, December 16, 1874, above.

466 To J[ohn] Jenner WEIR; no location [1875 May 2] [pmk. MY2/
75] [Filed with #302] Address leaf B D25.208
only; address
reads: "J.
Jenner Weir/
Blackheath".

467 To [James] PAGET; Down (type 8) 1875 May 3 LS; 8 x5; 1p. B D25.229

Calendar of Letters

Thanks for lectures [Paget, *Clinical Lectures and Essays...*, ed. by H. Marsh (London: 1875)]; vivisection question goes on as well as could be desired.

468 To?; Down (type 8)	1875 May 19th	ALS; 8 x5; B D25.142 1p.
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Has had letter from Prof. [August] Weismann, who is interested in corr.'s experiments on birds not eating gaudy caterpillars; has corr. published more lince papers in *Entomological Transactions*; does corr. know of any others working on this subject, such as [Charles Valentine] Riley of United States; Riley is probably the best.

469 To?; Down (type 8)	1875 May 29	LS; 8 x5; 2p. B D25.172
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Thanks for paper on ostrich feathers; sends ostrich feather just received from President of Transvaal.

470 To Fritz SCHULTZE; Down (type 8)	[1875]	ALS; 8 x5; B D25.89 2p. and add. [An Prof. Dr. Fritz Schultze/ Dresden- (Planen?)/ Reisewitzerstræ St. (sic)]
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Thanks for letter and book [*Kant und Darwin...* (Jena: 1875)]; is honored to be coupled with "the illustrious [Immanuel] Kant"; reads German poorly; give CD's regards to [Ernst Heinrich Philipp August] Haeckel [i.e. Haeckel] and thank him for note.

Other Descriptive Information

1. Year determined from publication date of corr.'s book.

471 To [George John] ROMANES; Down (type 8)	[1875] July 12th	ALS; 8 x5; B D25.N 4p.
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Printed in full, with minor changes: *More Letters*, I, 359-60 (letter 270). p. 359, line 14, change "gave" to "saw".

Also printed in full, with minor changes: *Life of Romanes*, 38-39.

	1875 July 18	LS; 8 x5; 3p. B D25.N
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472 To [George John] ROMANES; Down
(type 8)

Printed in full, with minor changes: *Life of Romanes*, 32.

473 To Mrs. DOWIE; Down (type 8)	[1875] August 15th	ALS; 8 x5; B D25.39 3p.
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Thanks for note, but [James] Paget says *all* amputated digits, not just supernumerary ones, tend to regrow a little in the young; must correct erroneous statement; owes correction to corr. and to Paget.

474 To [George John] ROMANES; Basset Southampton	[1875 September]	ALS; 7 x4.5 B D25.N 1p.
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The Huxleys [Thomas Henry Huxley and his wife, Henrietta Anne Heathorn Huxley] come to Down on 18th for the Sunday; invites Romanes to meet them and the Litchfields [Richard Buckley Litchfield and his wife, Henrietta Emma Darwin Litchfield]; Frank [i.e. Francis Darwin] may or may not have returned by then.

Other Descriptive Information

1. Only twice (on May 11, 1878, and on September 11, 1875) was CD at Basset on the eleventh of the month and then back at Down the following eighteenth, a Saturday. The earlier date is preferred because Romanes had not yet met the Huxleys at time this letter was written. See "Darwin's Journal," 19-21.

475 To Dr. S. NEWINGTON; Down (type 8) (last two lines crossed out)	1875 Sep 17.	LS; 7.5 x4 B D25.36 3/4; 3p.
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Thanks for letter of September 2, explaining about vines; thinks Madresfield vine was a sport of the Hamburgh and reverted to it after being in-arched; has not yet received specimen of berries; had not heard of corr.'s observation of roots secreting carbonic acid, discovered by Dr. N. 25 years since and at first denied by [John] Lindley; Prof. Lacho has proved this by growing plants in polished marble pots; returns J[ohn] Herschel's letter; observations on coincidence of pulse and step are new to CD.

476 To [George John] ROMANES; Down (type 9) (next to last line crossed out)	[1875] Sept. 24th	ALS; 8 x5; B D25.N 4p.
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Printed, with minor changes and minor omissions: *Life of Romanes*, 34. At end of letter is: is glad about corr.'s success with medusae. ¹

Calendar of Letters

Other Descriptive Information

1. See Romanes, "Preliminary Observations on the Locomotor System of Medusae," *Phil. Trans. R. Soc.*, 166 (1876): 269-313.

477 To [George John] ROMANES; Down 1875 Oct 8.

LS; 8 x5; 6p. B D25.N

(type 8) (last two lines crossed out)

Despatched certificate [proposing Romanes for election to Linnean Society]¹ to Kew, but it has not returned; will keep it for [Thomas Henry] Huxley's signature when latter visits Down in eight days; potatoes arrived yesterday; ¹ on basis of accounts by Germans, thinks two lots are hybridized; inspect large numbers of parent tubers for signs of hybrid mottling; give quantitative data on number inspected; Romanes, rather than CD, should plant the hybrids; does not know rate of reversion to pure forms; no account of same has been published; should potatoes be sent to Scotland; ¹ is sorry about onions, "as the nature of seminal hybrids would be so absolutely new"; ¹ thanks for drawing of striped horse, but subject is finished.²

Other Descriptive Information

1. On election, potatoes, Scotland address, and onions, see *Life of Romanes*, 13, 15, 34-38, and 40-41.
2. See Darwin, *Variation under Domestication* (1875), I, 58-63; and II, 343. This edition was sent to printers on October 3, 1875; see "Darwin's Journal," 20.

478 To [George John] ROMANES; 6 Q. [1875 November 4]

ALS; 7 x4.5 B D25.N

Anne St.

4p.

Came to London yesterday to be examined by Vivisection Commission, but returns to Down today; hopes to receive carrots soon; plants will not seed during winter, so wait until spring; mere diffusion of color from side to side [in graft-hybrid carrots] is not important; wants to see if seed yields white and red or mottled carrots; wants seeds of pure forms for control group; saw [James Scott] B[urdon-]Sanderson, who is first to comprehend physiological importance of proving graft-hybrids; latter told CD about medusas; corr.'s papers in *Nature*, esp. the last,² are curious and amusing; part about ferrets was funny and important; it is too late about sternums, but has added a note;³ will notify Romanes upon receipt of carrots.⁴

Other Descriptive Information

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1. The "8" written by CD is incorrect. CD testified before the Vivisection Commission on November 3, 1875; see Great Britain, Parliament, *Sessional Papers*, 1876, v. 41, "Report of the Royal Commission on the Practice of Subjecting Live Animals to Experiments for Scientific Purposes, with Minutes of the Evidence Presented to the Commission," [Cd. 1397], 233-34. Jeffrey L. Sturchio of the University of Pennsylvania provided this reference. For further evidence, this is a reply to letter printed in *Life of Romanes*, 42-45, and a sort of postscript to this letter is abstracted below.
2. "Instinct and Acquisition," *Nature, Lond.*, 12 (1875): 553-54.
3. See: *Life of Romanes*, 44; and Darwin, *Variation under Domestication* (1875), I, 288.
4. See subsequent letter, below.

479 To [George John] ROMANES; Down 1875 Nov 4. LS; 8 x5; 2p. B D25.N
(type 8)

Sends postscript to letter sent in morning; carrots have arrived; has potted them and put them in greenhouse because they are so small.

480 To Secretary Royal Socy [George 1875 Nov. 27th ALS; 8 x5; B D25.230
Gabriel STOKES]; Down (type 8) 1p. (enclosure
wanting)

Submits enclosed paper by [Robert] Lawson Tait.

481 To [George John] ROMANES; 2. [1875 December] ALS; 8 x5; B D25.N
Bryanston St ¹ 2p.

If skins of birds can be transplanted easily, experiment on spots and barbs by transplanting bit of skin of *blue*-feathered pigeon; pigeons are easily kept; has been successful in canvassing for [Edwin] Ray Lankester and has excited indignation about his case; returns to Down on Monday; hopes corr.'s paper went off well last night; ² thinks it a grand discovery.

Other Descriptive Information

1. Only time CD was at Bryanston Street on a 17th and returned to Down on Monday was during December of 1875. Down address variant, type 8, is crossed out.
 2. Romanes, "Preliminary Observations on the Locomotor System of Medusae [the Croonian Lecture, read December 16, 1875]," *Phil. Trans. R. Soc.*, 166 (1876): 269-313.
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482 To [George John] ROMANES; Down 1875 Dec 26. LS (postscript B D25.N
(type 8) in CD's hand);
8 x5; 3p.

Printed in full, with minor changes: *Life of Romanes*, 47-48.

483 To?; Down (type 8) (last two lines 1875 Dec 26 LS; 8 x5; 1p. B D25.116
crossed out) (enclosure
wanting)

Sorry for "so soon troubling you again"; encloses list of errata for Darwin, *Insectivorous Plants* [(1875)] detected by [Julius] Victor Carus in course of translating; forward them to French translator.

484 To [George John] ROMANES; 6 Q. [ca. 1875-1879] ALS; 8 x5; B D25.N
Anne St. ¹ 1p.

Will call on Romanes early on Tuesday morning; goes to Kew tomorrow.

Other Descriptive Information

1. Down address variant, type 8, is crossed out. During the period during which this letterhead was used, there were only six occasions when CD was at Queen Anne Street on both Sunday and Tuesday; the earliest of these is April 4, 1875, and the latest is December 7, 1879. See "Darwin's Journal," 19-21.

485 To [William O. OGLE]; Down (type 8) 1876 Feb. 15 LS; 8 x5; 1p. B D25.61

Thanks for book not yet received; send it to 6 Queen Anne St., Cavendish Square; will read it sometime in future.

486 To H[enr]y EDWARDS, Jr.; Down [1876 March 1?] ALS; 8 B D25.9
(type 8) x5; 2p. and
fragment of
env., add.
[Hy. Edwards
Esqr/ San.
Francisco/
California/ U.
States]

Calendar of Letters

Had received photograph and paper, but was overwhelmed with letters; read corr.'s discussion of Prof. [August Friedrich Leopold] Weissmann's views on dimorphism in butterflies; glad corr. approved of Weissmann's essay, which struck CD much.

Other Descriptive Information

1. This date is written on original in ink, in an unknown hand.

487 To [George John] ROMANES; Down 1876 Ap. 14. LS; 8 x5; 1p. B D25.N
(type 8)

Will probably receive the paper tomorrow; ¹ goes to London on 20th; ² will call upon corr. shortly thereafter.

Other Descriptive Information

1. Probably "An Account of Some New Species, Varieties, and Monstrous Forms of Medusae," *J. Linn. Soc. (Zoology)*, 12 (1876): 524-31.

2. CD was in London April 27 to May 3, 1876; see "Darwin's Journal," 20.

488 To G[eorge] J[ohn] ROMANES; [1876] Apl. 26th [pmk. AN on p.c.; 3 B D25.N
Down, Beckenham. AP26/ 76] x4 3/4; 1p. and
add. [G. H.
(sic)Romanes
Esqr/ 18.
Cornwall
Terrace/
Regents Park/
London.N.W]

Cannot go to London today; has just received corr.'s note; will tell no one; hopes to be well enough to go to London tomorrow; will call upon corr.

489 To G[eorge] J[ohn] ROMANES; 6. [1876] Ap. 27th [pmk. ANS on B D25.N
Queen Anne St. ("Down, Beckenham." is AP27/ 76] p.c.; 3 x4
crossed out) 3/4; 1p. and
add. [G. H.
(sic)Romanes
Esqr/ 18.

Calendar of Letters

Cornwall
Terrace/
Regents
Park.--]

Hopes to call upon corr. tomorrow morning.

490 To [George John] ROMANES; 6. Queen Anne St ¹	[1876] Ap 29th	ALS; 7 x4.5 B D25.N 1p.
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Printed in full, with minor changes: *Life of Romanes*, 45.

Other Descriptive Information

1. Down address variant, type 8, is crossed out.

491 To [August Wilhelm von HOFMANN]; Down (type 8)	1876 May 3	LS; 8 x5; 1p. B D25.66
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Thanks for corr.'s work on [Justus] Liebig; glad corr. has not forgotten CD.

492 To?; Down (type 8) (last two lines are crossed out)	1876 May 10.	LS; 8 x5; 2p. B D25.248
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Thanks for letter; will send sheets of new book [*Cross and Self Fertilisation* (1876)] before index is printed, as requested by corr.; this will not occur until October; is glad about newspaper and about twenty able collaborators.

493 To [George John] ROMANES; H. Wedgwoods Esq/ Hopedene/ Dorking ¹	[1876] May 29th.	ALS; 8 x5; B D25.N 6p.
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First portion printed in full, with minor changes: *More Letters*, I, 363-65 (letter 275).

Next portion printed in full, with minor changes and with some overlap with previous portion: *Life of Romanes*, 49-50.

Small and redundant portion printed: *Life and Letters* III, 204.

Other Descriptive Information

1. Down address variant, type 8, is crossed out.

494 To [George John] ROMANES; Down (type 8)	[1876] June 4th	ALS; 8 x5; B D25.N 4p.
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Printed, with minor changes and minor omissions: *Life of Romanes*, 60-61.

495 To [George John] ROMANES; no location	[1876 ca. June 15]	A postscript, B D25.N S by init.; 9 x7.25 4p., sketch
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Romanes asks about Frank's [i.e. Francis Darwin's] discovery,² "but if I were like you in constant communication with spirits, I shd. not care even for a jelly-fish, & this is the strongest simile I can apply to you";³ do not mention Frank's work until confirmed; Frank finds that leaves of teasle or *Dipsacus* have protoplasmic filaments extending from glands on footstalks; these filaments are stimulated by carbonate of ammonia or putrid meat and contract on exposure to alcohol; filaments appear to ingest matter; much work must still be done, and Frank is busy with another paper,⁴ but "I can hardly doubt that we have here a highly organised plant which emits from its cells masses of protoplasm, identical with an amoeba or other Protozoan, for the sake of capturing particles of dead organic matter; & this seems to me a wonderful discovery"; letter by Dr. [Benjamin Ward] Richardson in *Nature* is capital.⁵

Other Descriptive Information

1. See note 5, below, for date.
2. See Francis Darwin, "On the Protrusion of Protoplasmic Filaments from the Glandular Hairs of the Common Teasel (*Dipsacus sylvestris*)," *Proc. R. Soc.*, 26 (1877): 4-8.
3. CD is joking about Romanes's interest in spiritualism; see *Life of Romanes*, 48-49.
4. "On the Glandular Bodies on *Acacia sphaerocephala* and *Cecropia peltata* Serving as Food for Ants...," *J. Linn. Soc. (Botany)*, 15 (1875-1877): 398-409.
5. See Richardson, "Abstract Report to `Nature' on Experimentation on Animals for the Advance of Practical Medicine," *Nature, Lond.*, 14 (1876): 149-52, 170-72, 197-99, 250-52, 289-91, 339-41, and 369-72. Published in the issue for June 15, 1876, and subsequent issues.

496 To?: Down (type 8)	[?1876] June 30th	ALS; 8 x5; B D25.49 1p.
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Has not heard of essay mentioned by corr.; would like copy if it is small and corr. has a spare one; will not answer it, as this takes time.

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497 To [George Warde or Ebenezer] [1876] Sept. 15th [end. ALS; 8 x5; B D25.194
 NORMAN; Down (type 8) ALFRED M.? 1876/ 15 Sepr.] 2p. and end.
 [1876/ 15
 Sepr./ Chas.
 Darwin/ on
 receipt/ of
 letter of/
 condolence,
 for/ death of
 Daughter/ in
 Law--]

Thanks for note; it has been a terrible blow; [Amy Richenda Ruck Darwin] was sweet and gentle; son [Francis Darwin] has gone to North Wales where she was buried yesterday.

498 To [Peter Martin DUNCAN]; Down 1876 Sep. 19 LS; 8 x5; 2p. B D25.78
 (type 8)

While cleaning out a room, found a fossil coral and a long MS. account of it by [William] Lonsdale; these must have arrived while CD was ill, and they were forgotten; will send them to corr.

499 To [?William] MARSHALL; Down 1876 Sep. 19 LS; 8 x5; 2p. B D25.238
 (type 8)

Wishes to build a billiard room, with bedroom and dressing room above; wants corr. to undertake the project; come to Down; Horace [Darwin] does not know corr.'s London address; must hurry with project because winter is coming.

500 To [?William] MARSHALL; Down [1876] ALS; 8 x5; B D25.226
 (type 8) 1p.

Please write to "Mr. Laslett/ Builder/ Farnborough/ Kent." and arrange to meet him at Down House on Tuesday; leaves home [for Leith Hill Place] on Wednesday [October 4], so cannot invite corr. to sleep at Down. ¹

Other Descriptive Information

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1. See preceding letter, above, for year. For departure to Leith Hill, see "Darwin's Journal," 20. Laslett *may* have been William Emerson Laslett the solicitor.

501 To [?William] MARSHALL; Down [1876] ALS; 8 x5; B D25.255
(type 8) 6p.

Accepts Mr. Deards's estimate for the work, as his is cheaper; repay Laslett and [?Thomas Hayter] Lewis for expenses involved in estimates; make trap door to roof out of glass, and put flooring in attic crawl space, so lumber may be stored there; forget Horace [Darwin]'s idea about partition; wants to enlarge window in present hall; wants sealed airspace inside the outer walls.

Other Descriptive Information

1. See preceding letter, above, for date.

502 To W[illiam Erasmus DARWIN]; no [1876] AL, S by B D25.256
location (blue paper) init.; 8 x5; 2p.
(enclosure
wanting)

Send enclosed to Capt. [?James Felix or?Henry M.] Jones; proofs will reach corr. soon; new chapter seven will have to be much corrected by CD; ¹ does not think much of [Edward Drinker] Cope's essay ["On the Origin of Genera," *Proc. Acad. nat. Sci. Philad.*, 20 (1868): 242-300], read long ago when received; "He writes very obscurely, but is an *excellent* Naturalist. He looks, following [Jean Louis Rodolphe] Agassiz at a genus as something essentially distinct from a species, which I believe to be quite an error."

Other Descriptive Information

1. CD here refers to *Fertilisation of Orchids* (1877), which he was readying for publication in 1876. Thus the year for this letter. On the new chapter seven, see page vi of the book.

503 To [George John] ROMANES; Down [1877] 1876 LS; ²8 x5; 3p. B D25.N
(type 8)

Is pleased to propose corr. for Royal Society; will be at 2 Bryanston Street in London on the 6th; will sign certificate then; suggest others, not on the council [of the Royal Society], who might also sign it; [John Scott] Burdon-Sanderson should sign it; is reading corr.'s medusa paper; ³ will call on corr. early next week.

Other Descriptive Information

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1. CD's amanuensis apparently wrote the wrong year. See subsequent letter, below, and check "Darwin's Journal," 20, to see that CD went to London of January 6, 1877, but not on January 6, 1876.
2. Francis Darwin, CD's amanuensis, penned a short note at end of letter.
3. "Further Observations on the Locomotor System of Medusae," *Phil. Trans. R. Soc.*, 167 (1877): 659-752.

504 To [George John] ROMANES; Down 1877 Jan. 4. LS; 8 x5; 1p. B D25.N
(type 8)

From what corr. says, CD will not send certificate [proposing corr. for Royal Society]; will bring blank certificate to London; invites corr. to lunch at 2 Bryanston Street on Monday [January 8]; bring or send certificate.

505 To Howard MILLER; Down (type 8) 1877 Jan. 10th [pmk. JA 10/
77] ALS; 8 x5; B D25.112
1p. and env.,
add. [Howard
Miller Esqr/
Elderton/
Armstrong
Co./ Pa./ U.
States]

Thanks for offer, which would be of value to anyone engaged in embryological studies, but CD is not so engaged.

506 To R[?ichard] [KE.?]; Down (type 8) ¹ 1877 Feb. 15th-- [end. Feb.
16/ 77] ALS; 8 x5; B D25.199
2p., end.
[Books sent &
advised/ Feb.
16/ 77 Rd Ke.]

Please send *Botanische Zeitung* for 1857; send [Eugene] Michalet, ["Sur la Floraison des *Viola* de la Section *Nomimum*, de l' *Oxalis acetosella* et du *Linaria spuria*,"] *Bull. Soc. bot. Fr.*, 7 [(1860):] 465[-70]; and send [Joseph] Duval-Jouve, ["Note sur Quelques Plantes Critiques du *Flora monspeliensis* de Linné,"] *Bull. Soc. bot. Fr.*, 10 [(1863); 10-20]; send also H[enri Ernest] Baillon,

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"Sur l'Émission des Tubes Polliniques des Helianthemum," [*Adansonia, Recueil Périodique d'Observations Botaniques*, 2 (1861):] 56[-59]; send by rail.

Other Descriptive Information

1. Lower half of this printed address is highlighted with a drawn hand pointing to it.

507 To Miss JACOBSON; Down (type 8)	1877 Feb. 25th	AL in third person S; 6 x5; 1p.	B D25.84
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CD accedes to corr.'s request.

508 To [George Henry Kendrick THWAITES; Down (type 8)]	1877 Mar 26	LS; 8 x5; 4p.	B D25.TH
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Thanks for specimens; sexual differences remind CD of complementary males in cirripedes; hopes [John Obadiah] Westwood will make a paper on subject; ¹ wonders if specimens play role in fertilization of figs, a subject studied by Dr [Hermann] Crüger in West Indies; has seen account of corr. from Miss [Marianne] North; ² has just examined *Oxalis sensitiva* specimen sent long ago, and to CD's surprise its flowers are trimorphic and cleistogamic. ³

Other Descriptive Information

1. "Descriptions of the Insects Infesting the Seeds of Ficus Sycomorus and Carica," *Trans. R. ent. Soc. Lond.*, 30 (1882): 47-60.
2. See entry for North in *DNB*; she was in Ceylon in 1876.
3. See Darwin, *Different Forms of Flowers* (1877), 322-24.

509 To [George John] ROMANES; Down (type 8)	[1877]	ALS; 8 x5; 5p.	B D25.N
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Is astonished that corr. was not on list [of newly-elected Fellows of Royal Society]; [Joseph Dalton Hooker], President [of the Royal Society] and others implied that age and position in scientific society (e.g. being a professor) weighed heavily, as did having been proposed many times; youth is a disqualification; Council [of Royal Society] acts honestly; corr.'s work is valuable; cannot remember names of fifteen [new Fellows]; ² do not withdraw name; offers to re-propose corr. for election.

Other Descriptive Information

1. See letters to Romanes dated January 2 and January 4, 1877, above.

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2. For names, see *Proc. R. Soc.*, 26 (1877): 210.

510 To Otto ZACHARIAS; Down (type 8) 1877 April 26th	ALS; 8 x5; B D25.27 3p. and env., add. [Dr. Otto Zacharias/ Red: der Nordsee- Zeitung/ Geestemünde/ Germany]
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Thanks for anomalous foot of the pig, but CD is not osteologist enough to pass judgment on it; is away from home; will send foot to Prof. [William Henry] Flower at Royal College of Surgeons, who has studied limbs of Ungulata and who is "a most careful & admirable observer"; will send notice if any "remarkable peculiarities" are found.

511 From W[illiam] H[enry] FLOWER; 1877 May 3 Royal College of Surgeons of England./ Lincoln's Inn. Fields,/ (W.C.)	ALS 7.25 B D25.X1 x4.5 4p.
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Thanks for pig's foot; it contains an extra digit, which may be either a reversion or a case of over-development; wants further information about other feet of affected pig and about feet of pig's relatives.¹

Other Descriptive Information

1. See preceding letter, above.

512 From W[illiam] H[enry] FLOWER; 1877 May 17th Royal College of Surgeons of England./ Lincoln's Inn Fields,/ (W.C.)	ALS; 7.25 B D25.X2 x4.5 3p., sketch
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Thanks for information about pig's foot in letter of May 10; sends catalog of their teratological series; mentions another pig foot specimen with similar deformity, specimen number 297A; glad corr. will collect similar cases.¹

Other Descriptive Information

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1. See preceding letter, above. This letter *may* be to Otto Zacharias, and not to CD, but there is no indication of such on original.

513 To [George John] ROMANES; Down 1877 May 23d. ALS; 8 x5; B D25.N
(type 8) 4p.

Thank [Charles] Grant [Blairfindie] Allen for having sent his book [*Physiological Aesthetics* (London: H. S. King, 1877)]; thanks for letter; "good Heavens what a lot of books there is to read"; had not heard of "rub"--presumably over spontaneous generation--at Royal Society; ¹ [Thomas Henry] Huxley said [John] Tyndall's work about old germs withstanding boiling was decisive; ² would like to see question settled; Frank's [i.e. Francis Darwin's] paper on teazle has been rejected, to CD's chagrin; ³ none of sons can attend corr.'s lecture; ⁴ corr.'s negative results concerning spiritualism please CD, who thinks Williams [the spiritualist] is "a very clever rogue".

Other Descriptive Information

1. See Glenn Vandervliet, *Microbiology and the Spontaneous Generation Debate during the 1870's* (Lawrence, Kansas: Coronado Press, 1971).
2. See Tyndall, "Further Researches on the Deportment and Vital Resistance of Putrefactive and Infective Organisms....," *Proc. R. Soc.*, 26 (1877): 228-38; and idem, "Further Researches on the Deportment and Vital Persistence of Putrefactive and Infective Organisms....," *Phil. Trans. R. Soc.*, 167 (1877): 149-206.
3. See Francis Darwin, "On the Protrusion of Protoplasmic Filaments from the Glandular Hairs of the Common Teasel (*Dipsacus sylvestris*)," *Q. Jl microsc. Sci.*, 17 (1877): 169-74 and 245-72.
4. Romanes, "Evolution of Nerves and Nervo-Systems," *Not. Proc. Meet. Memb. R. Instn*, 8 (1875-1878): 427-48.

514 To [George John] ROMANES; Down [1877] ALS; 8 x5; B D25.N
(type 8) 4p.

Thanks for letter; does not know what referees said about Frank's [i.e. Francis Darwin's] paper; ¹ [Edwin] Ray Lankester and [John Hutton] Balfour have seen [teasel] filaments; latter is sure they are protoplasm; "It is terribly discouraging to a young worker to have his work rejected because the facts are quite new"; ¹ will show corr.'s letter to Frank; will read corr.'s lecture when it appears in *Nature*; ² deception during seances is wicked and scandalous; will take a month's rest soon [from

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June 8 to July 4, 1877];³ has read a third of [Charles] Grant [Blairfindie] Allen's book, finding it clever but too "deductive"; Allen neglects effects of habit.¹

Other Descriptive Information

1. See preceding letter, above.
2. "Evolution of Nerves and Nervo-Systems," *Nature, Lond.*, 16 (1877): 231-33, 269-71, and 289-93.
3. See "Darwin's Journal," 20.

515 To [George John] ROMANES; Down 1877 June 5. LS; 8 x5; 2p. B D25.N
(type 8)

Thought corr. would like the following extract, found by chance, and bearing on effects of habit in passage of nervous force.¹

Other Descriptive Information

1. See Jean Lamarck, *Philosophie Zoologique*, 2v. (Paris: Baillièrè, 1830), II, 318, paragraph beginning: "Dans toute action, le fluide...."

516 To [George John] ROMANES; "My [1877] June 11th. ALS; 8 x5; B D25.N
address will be/`Bassett, Southampton.'" ¹ 4p.

Printed in full, with minor changes: *More Letters*, I, 367-68 (letter 279). p. 367, line 7, change "purchases" to "preserves".

Other Descriptive Information

1. Down address variant, type 8, is crossed out. Also crossed out is "Leith Hill Place".

517 To [Rudolf August Birminghamhold [1877 July 16th] LS; 8 x5; 2p. B D25.186
LUDWIG] ¹; Down (type 8)

Received letter and essay dedicated to CD, dated July 4, only today;² it is interesting to discover in ancient forms any characters now present in distinct species or subgroups, and *Crocodilus Darwinii* is excellent illustration of this.

Other Descriptive Information

1. Pencil note on third page reads: "addressed Herrn Rudolphe Ludwig/ Waldstrasse 49/ Darmstadt/ July 16th 1877".

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2. See Rudolf Ludwig, *Fossile Crocodiliden aus der Tertiärformation des Mainzer Beckens...* (Cassell, 1877).

518 To [George John] ROMANES; Down [1877] Augt. 9th ALS; 8 x5; B D25.N
(type 8) 6p.

Printed in full, with minor changes: *Life of Romanes*, 56-57. p. 57, line 4, change "half of the botanists" to "half-a-score of Botanists". Also printed, with changes: *More Letters*, II, 406-07 (letter 731).

519 To [George John] ROMANES; Down [1877] Aug. 10th ALS; 8 x5; B D25.N
(type 8) 3p.

Printed in full, with minor changes: *Life of Romanes*, 62-63. Printed, with minor changes and minor omissions: *More Letters*, II, 407-08 (letter 733). p. 407, line 1, change "went" to "wrote".

520 From Léo ERRERA; Venice. 1877 Sept. 15 Draft of ALS; B D25.224 #1
8 x5.5 3p. (in
French)¹

Has studied heterostylism for some years in the *Primula elatior*; has prepared manuscript on subject with G[ustave] Gevaert, in which there is a correction of a point made in Darwin, *Cross and Self Fertilisation* (1876); wishes to send portion of manuscript that deals with CD's book to CD for review; reply in English.

Other Descriptive Information

1. Translation into English provided by editor's wife, Nancy E. Carroll.

521 To Léo [Abram] ERRERA; Down 1877 Sep 18. [pmk. SP18/
(type 8) 77] LS; 8 x5; 2p. B D25.224 #2
and env., add.
[Mons: Léo
Errera/ 6A.
Rue Royale
6A/ Brussels/
Belgium]

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Would be happy to look at corr.'s MS.; to save CD's time, mark pages which CD should scan; will read paper in entirety when published; ¹ has recently published *Different Forms of Flowers* [(1877)], in which results of some experiments on *P. elatior* are given. ²

Other Descriptive Information

1. See Errera and Gevaert, "Sur la Structure et les Modes de Fecondation des Fleurs et en Particulier sur l'Hétérostylie du *Primula elatior*," *Belg. Soc. Bot. Bull.*, 17 (1878): 38-181 and 182-248.
2. See preceding letter, above.

522 From L[éo Abram] E[RRERA]; Bruxelles/ 6A rue royale. IN TWO PARTS IN VAULT, EACH HAVING SEPARATE FOLDER. PART II NOT FILMED	1877 Sept. 30	Draft of ALS; B D25.224 #3 various sizes; 3p. (in French) 1
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Thanks for prompt letter; has marked the essential passages of the MS. for CD's comment in blue crayon; have borrowed from [A. von Marilaun] Kerner the terms "autogamy", "geitonogamy", "xenogamy", and "allogamy"; discusses the advantages of these; points out the main elements of the argument in the MS.; thanks CD for copy of Darwin, *Different Forms of Flowers* [(1877)]; mentions terminology used by Herman Müller and [F.] Delpino. ¹

Other Descriptive Information

1. Free translation into English provided by editor's wife, Nancy E. Carroll. See preceding letter, above.

523 To Léo [Abram] ERRERA; Down (type 8) (last two lines crossed out)	1877 Oct 4th [pmk. OC4/ 77]	LS; 8 x5; 4p. B D25.224 #4 and env., add. [Monsieur Léo Errera/ 6A Rue Royale/ Brussels]
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Printed in full, with minor changes: *More Letters*, II, 413-14 (letter 741).

524 From L[éo Abram] E[RRERA]; no location	1877. Oct 10	Draft of ALS; B D25.224 #5 8.5 x6.5 2p. (in French) ¹
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Thanks for aid; has already begun work upon inconspicuous flowers; explains why he concluded that CD believed that autogamy generally was more advantageous than geitonogamy.¹

Other Descriptive Information

1. Translation into English provided by editor's wife, Nancy E. Carroll. See also preceding four letters, above.

525 To?; Down (type 8)

1877 Oct 15.

LS; 8 x5; 2p. B D25.76

Thanks for curious photographs; will read account of them with interest; appearance of same abnormality in different races of humans in different environments has always seemed remarkable to CD; did not know corr.'s pupil R[udolf] von Willemoes-Suhm, but had read his papers, esp. on development of cirripedes; had "highest opinion of his abilities. His death has been a very serious loss to natural science."

526 To [George John] ROMANES; Down (type 8) [1877 December 1-2]

ALS; 8 x5; 4p. B D25.N

Printed in full, with minor changes: *Life of Romanes*, 66-67. Printed, with minor changes and minor omissions: *More Letters*, I, 370-71 (letter 281).

Other Descriptive Information

1. Date determined from date of Romanes's reply; see *Life of Romanes*, 68-69.

527 To [George John] ROMANES; Down (type 8) 1877 Dec 5.

LS; 18 x5; 3p. B D25.N

CD's gardener does not know what onion worm is; onions can be planted at Down in part of garden where onions have not grown for 30 years; will take charge of experimental plants for corr.; thanks for letter; Romanes overestimates CD and his works; it would be absurd for CD to suddenly be called "Dr".

Other Descriptive Information

1. Francis Darwin, CD's amanuensis, penned a short note at end of letter, recommending that Romanes try "Thymol" upon his medusas.

528 To?; Down (type 8)

1877 Dec. 11

LS; 8 x5; 2p. B D25.132

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Thanks for letter; would like to see six letters of grandfather [Erasmus Darwin] published, but grandfather's name and that of [Johann Albrecht Heinrich] Reimarus are so unknown that no editor would want to publish the letters; would like to see letters if brought to England.

529 To R[euben A.] BLAIR; Down (type 8) 1877 Dec 27. [pmk. APR/27]	LS; 8 x5; B D25.203 #1 2p. and env., add. [R. Blair Esq/ Sedalia/ Missouri/ U.S.A.]
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Thanks for news of the case of the goose; seems to show inheritance of the effects of injury; such cases are rare and should be examined; send wing to CD, if possible; see if goose had normal offspring before injury.

530 To [George John] ROMANES; Down (type 8) [1877-1878]	ALS; 8 x5; B D25.N 6p.
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Printed in full, with minor changes: *Life of Romanes*, 105-07.

Other Descriptive Information

1. CD mentions "perforation of the corolla by bees" in this letter as being on page 425 of Darwin, *Cross and Self Fertilisation*. This only occurred in the first edition, published November 10, 1876; see *Freeman*, page 31. Therefore, 1877 is lower endpoint. A new, second edition appeared in 1878 without any mention of perforation on page 425; this sets upper endpoint for letter.

531 To [George John] ROMANES; Down (type 8) 1878 March 7.	LS; 8 x5; 2p. B D25.N
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CD's gardener says onions sown before middle of March may be injured by frost, but if CD delays in planting, onions will not be ready by May; should CD take risk and plant now; is glad corr.'s essay will appear in the *Fortnightly*; was thinking about it the other day; books were sent by rail in morning.¹

Other Descriptive Information

1. See Romanes, "The Scientific Evidence of Organic Evolution: A Discourse," *Fortnightly Rev.*, 30 (1881): 739-58.

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532 To?: Down (type 8) 1878 March 28th ALS; 8 x5; B D25.133
1p.

Thanks for letter; temperament or mental disposition depends on structure of the brain, so nature of milk digested probably does not affect character of child; case of diseases is different; facts about starling imitating cries and songs of other birds are curious, but "I have become so absorbed with vegetable physiology that it is not likely I shall ever again attend to the minds of the higher animals."

533 To [George John] ROMANES; Down [1878] April 9th ALS; 8 x5; B D25.N
(type 8) 3p.

Condolences [on loss of sister]; ¹ leaves home on 27th and returns on May 13; invites corr. to Down before or after these dates; onions are not yet up; doubts that corr. could do anything with onions before leaving for Scotland. ²

Other Descriptive Information

1. See *Life of Romanes*, 69-71.
2. On onions, see also letter to Romanes, March 7, 1878, above.

534 From W[illiam] H[enry] FLOWER; 1878 April 12 ALS; 8 x5; B D25.203 #2
Royal College of Surgeons of England/ 4p.
Lincoln's Inn Fields/ (W.C.)

Was delayed in looking at goose's wing; sketches the wing's bones on the back of [Reuben A.] Blair's letter; bones are normal, but appear to have been abnormally flexed; proposes "far-fetched" hypothesis in which such an injury might have led to "some disturbance in the functions of the nerves which control the muscles of the same region" in the offspring; must examine several wings, *especially of very young birds*, to check this; wing of original goose should be examined as well; case is worth following up. ¹

Other Descriptive Information

1. See also letter to Blair, December 27, 1877, above. With this letter is a copy of same, plus an env., add. to "R. A. Blair Esq/ Sedalia/ Missouri/ U.S.A" and pmk. "Beckenham/ DE27/ 77". It should accompany earlier letter, of course.

535 To [Reuben A. BLAIR]; Down (type 8) 1878 Ap. 14. LS; 8 x5; B D25.203 #3
4p. and photo

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of goose
(enclosure
wanting) ¹

Thanks for wing of goose, photograph, and letter; enclosed explains delay of [William Henry] Flower; send wings requested by Flower directly to Flower; CD will pay expenses for this undertaking; return letters to CD; did old gander bleed when it was wounded; did wound suppurate; did wing heal quickly or slowly; these questions relate to inheritance of mutilations.

Include photo of gosling with turned with features

Other Descriptive Information

1. Enclosure is obviously Flower's report, which is abstracted above as a letter to CD.

536 To Rob[er]t THOMSON; no location [Envelope add. to Thomson, but note does not belong with the envelope]	[1878 May 23] [end. 1878; pmk. MY23/ 78]	ALS; 4.5 x7 3/4; 1p. and env., add. [Robt Thomson Esq/ Beaufort/ South Carolina/ U.S.A.], end. [Charly Darwin/ 1878]	B D25.202
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Orders "large pot of *soft* spermaceti ointment".

537 To [George John] ROMANES; Down (type 8)	[1878]	LS; 8 x5; 4p. (enclosures wanting)	B D25.N
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Wrote notes on insects 40 years ago and used them in long chapter on instinct written four or five years before Darwin, *Origin* [(1859)]; sends two pages of this chapter; offers entire chapter of 110 pages for Romanes's use, but presumes it is too late to be of any good; Frank [i.e. Francis Darwin] took the baby [i.e. Bernard Richard Meirion Darwin] to see train and called engine a "puff puff"; baby now calls all vehicles and chimneys and fires (lighted or unlighted) by the name "boo boo";

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more onions from last lot have died, apparently because of wet weather, but total deaths are few; ¹
one pea has sent up an aborted shoot of a half plumule.

Other Descriptive Information

1. See letter to Romanes, April 9, 1878, above.

538 To [George John] ROMANES; Down [1878] June 19th ALS; 8 x5; B D25.N
(type 8) 3p.

Printed in full, with minor changes: *Life of Romanes*, 72.

539 To [a son of Edward TRUELOVE]; 1878 July 1. ALS; 8 B D25.131
Down (type 8) x5; 3p. and
end. [Chas.
Darwin]

Private letter; had not heard of corr.'s father until his trial; cannot sign memorial for this reason; has no reason to doubt corr.'s father's character; "I have not seen the Moral Phys. by R[obert] D[ale] Owen, but I have heard the nature of its contents; & though I am strongly opposed to all such views & plans, yet the Conviction of your Father seemed to me very harsh, as the publication of works of this nature can hardly be considered as obscene in the ordinary sense of the word." ¹

Other Descriptive Information

1. See: Owen, *Moral Physiology; or, a Brief and Plain Treatise on the Population Question...* (New York: 1831); and Edward Truelove, *In the High Court of Justice. Queen's Bench Division, February 1, 1878. The Queen v. E. Truelove, for Publishing the Hon. R. D. Owen's "Moral Physiology"...* (London: 1878). Copy of the latter is at British Museum.

540 To [Reuben A. BLAIR]; Down (type 9) 1878 July 4th ALS; 8 x5; B D25.203 #4
1p.

Thanks for letter and for kindness; has written to [William Henry] Flower with all particulars and has urged Flower to examine wings carefully; there may be delay caused by holiday; corr. will receive word. ¹

Other Descriptive Information

1. See letter to Blair, April 14, 1878, above.

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541 To F. G. STOKES; Down (type 8) [1878] July 16th [pmk. ALS; 8 x5; B D25.105
JY16/ 78] 2p. and env.,
add. [F. G.
Stokes Esq/
The Nook/
Alma Road/
Windsor],
end. [C.
Darwin/2762]

Corr. will find interesting points to observe; if corr. has musical ear, he should study the various intonations which children just before and just after learning to speak; these sounds are "highly expressive".

542 From R[euben] A. BLAIR; Sedalia 1878 July 17. ALS; 10 x8; B D25.203 #6
Mo. 4p.

Thanks for letter of April 14; has sent pair of ten-month-old wings, pair of ten-day-old wings, one three-month-old gander's wing, and the old gander's wing, to [William Henry] Flower; had difficulties obtaining wings; abnormality did not appear in offspring until fifth week; parents of the old goose and gander had no defects; injury did not produce blood or suppuration; speculates about nature of injury. ¹

Other Descriptive Information

1. See letter to Blair, July 4, 1878, above.

543 To [William Henry] FLOWER; Down 1878 Aug. [4? 11?] ALS; 8 x5; B D25.68
(type 8) 4p. (enclosure
wanting) ¹

Has heard from R[euben] A. Blair, who has sent specimens as described in enclosed letter; since [Charles Edouard] Brown-Sequard's observations, all cases of inheritance from injury seem worthy of study; encloses Blair's letters to CD; encloses Flower's note to CD on subject; please tell CD of results, so that Blair can be informed; man in Leeds offered CD a pigeon born without eyes and without sockets in skull; told man to send it to Flower. ¹

Other Descriptive Information

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1. See previous letter, above.

544 To [Léo Abram ERRERA]; Leith Hill Place/ Dorking ¹	[1878] Aug 8th [pmk. DORKING/ AU8/ 78]	ALS; 8 x5; B D25.244 #6 1p. and env., add. [A/ Mon. Léo Errera/ Morley's Hotel/ Trafalgar Sqr/ London. and 152 (clique?) de Mer/ Blankenberghe <i>Belgium</i>],end. [letter of/ Aug 8th/ (1878)]
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Sorry corr. went to Down for nothing; left home before the post arrived yesterday; hopes corr.'s researches on cross-fertilization progress well.

Other Descriptive Information

1. Down address variant, type 8, is crossed out.

545 From [Léo Abram ERRERA]; Bkbghe [i.e. Blankenberghe]	1878 August 12	Retained copy B D25.224 #7 of AN; 5.25 x2 3/4; 2p.
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Thanks for letter; hopes to find CD at home some other time; invites CD to call upon Errera if CD ever comes to the Continent; congratulations on election to French Academy of Sciences. ¹

Other Descriptive Information

1. See preceding letter, above.

546 To [George John] ROMANES; Down (type 8)	1878 Aug. 20th/ 28th	ALS; 8 x5; B D25.N 8p.
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Printed in full, with minor changes: *Life of Romanes*, 74-77. Also printed: *Life and Letters* III, 225; and *More Letters*, II, 48-49 (letter 417).

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547 To [George John] ROMANES; Down [1878] Sept. 2d (type 8) ALS; 8 x5; B D25.N
3p. (enclosure wanting)

Printed, with minor changes: *Life of Romanes*, 78. At end of letter is: guesses that Lady [Mary Farrer] Hobhouse is trustworthy; ¹ sends [Joseph Rémi Léopold] Delboeuf, [?*La Psychologie comme Science Naturelle, Son Présent et Son Avenir* (Brussels: 1876)]; ² enclosed is worth getting; mentioned first edition to corr.; it is smallish book; "He is a Spencerian to the back-bone." ³

Other Descriptive Information

1. See *Life of Romanes*, 76; and *More Letters*, II, 49 (letter 417).
2. See *More Letters*, II, 48 (letter 417); and *Life of Romanes*, 75-76.
3. Probably a reference to Alfred Victor Espinas, *Des Sociétés Animales*, 2nd ed. (Paris: G. Baillière, 1878). See *Life of Romanes*, 79.

548 To [George John] ROMANES; Down [1878] (type 8) ALS; 8 x5; B D25.N
2p.

Order copy of last Thursday's *Spiritualist*; ¹ it contains exposure of Williams [the medium]; ² H[ensleigh] Wedgwood brought it to Down; Wedgwood admits that Williams is a rogue, but believes him to be a medium nonetheless; Wedgwood claims further to have seen John King, notwithstanding the old beard and dirty ghost clothes; this is a psychological curiosity! ³

Other Descriptive Information

1. See "An Exposure of Imposture," *The Spiritualist Newspaper, A Record of the Progress of the Science and Ethics of Spiritualism*, 13, September 20, 1878. Year for this letter determined by this publication date.
2. See also letter to Romanes, May 23, 1877, above.
3. On this whole subject, see Edward Clodd, *The Question: 'If a Man Die, Shall He Live Again?'*, *A Brief History and Examination of Modern Spiritualism* (London: Grant Richards Ltd., 1917), *passim*, esp. 128-29.

549 To?; Down (type 8) 1878 Sept. 28th LS; 7 x4.5 B D25.85
1p. (enclosure wanting)

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Private letter; encloses copy of the *Medium* with an exposure of Williams the spiritualist; hopes corr. will publish an account of the exposure. ¹

Other Descriptive Information

1. See preceding letter, above.

550 To [George John] ROMANES; Down [?]1878]
(type 8)

ALS; 8 x5; B D25.N
1p.

Has just read corr.'s article in *Fortnightly*; ¹ thinks it good; "I honour you for taking so much trouble pro bono publico of the mass of readers"; article in the Edinburgh must be nonsense; editor should not have admitted such an article; "But the poor old Edinburgh seems to have played out its part & is ready for extinction." ²

Other Descriptive Information

1. See, perhaps, Romanes, "The Beginning of Nerves in the Animal Kingdom," *Fortnightly Review*, 30 (1878): 509-26. Year for letter determined by this publication date.
2. See the review of geology texts in *Edinb. Rev.*, 147 (Jan.-April, 1878): 183-200. This reference suggested by editor's wife, Nancy E. Carroll.

551 From W[illiam] H[enry] FLOWER; 1878 Nov 6th
Royal College of Surgeons of England./
Lincoln's Inn Fields,/ (W.C.)

ALS; 7.5 B D25.203 #8
x4.5 7p. and
enclosure ¹

Flower and assistant Dr. Larson have dissected wings sent by [Reuben A.] Blair; sends Larson's report; ¹ will give summary of it here; deformity is same in all young birds and resembles clubfoot in man; wing of old gander, however, is "perfectly normal" and has never been broken or dislocated; concludes that this is merely a case of mutual deformity in siblings; does not know if this is common, but saw a similar specimen during summer; returns letters. ²

Other Descriptive Information

1. Enclosure is Larson's report; see appendix, below.
2. See letter to Flower, Aug. [4? 11?], 1878, above.

552 To G[eorge] J[ohn] ROMANES; at R. [1878 November] 20th
B. Litchfield/ 4, Bryanston Street/ Portman
Square, W. Wednesday [pmk. N020/ 78]

ANS on p.c.; B D25.N
3 x4 3/4; 1p.
and add. [G.

Calendar of Letters

J. Romanes
Esqr/ 18.
Cornwall
Terrace/
Regents Park]

Will call upon corr. tomorrow morning; send card if corr. will not be home then.

553 To [George John] ROMANES; Down (type 9)	[1878] Dec. 5th	ALS; 8 x5; 4p.	B D25.N
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Printed in full, with minor changes: *Life of Romanes*, 85-86.

554 To [Reuben A. BLAIR]; Down (type 9) (last two lines crossed out)	1878 Dec. 9th.	ALS; 8 x5; 3p. and enclosures ¹	B D25.203 #9
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[William Henry] Flower has been ill, so CD's reply has been delayed; encloses Flower's report and letter; ¹ there is no connection between the deformity and the injury; it must be a case of "post hoc" and not "propter hoc"; "I am well accustomed in my experimental work to get definite result only once in three or four times, & thus alone can science prosper."

Other Descriptive Information

1. Enclosures are listed separately elsewhere in calendar; see letter from Flower, November 6, 1878, above.

555 To [George John] ROMANES; Down (type 8)	[1878] Dec. 11th	ALS; 8 x5; 1p.	B D25.N
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Thanks for letter; ¹ has just received "Vegetative Bastarderzeugung durch Impfung" by [Hugo] Lindemuth, an agriculturist and gardener; ² it has three plates, and CD offers it to corr.; CD has not received papers which corr. says he has sent.

Other Descriptive Information

1. See *Life of Romanes*, 86-88.

2. See Lindemuth, "Ueber Vegetative Bastarderzeugung durch Impfung," *Landw. Jbr*, 7 (1878): 887-939.

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556 To G[eorge] J[ohn] ROMANES; [1878] Dec. 27th [pmk. AN on p.c.; B D25.N
Down, Beckenham. DE28/ 78] 3 x4 3/4; 1p.
and add. [G.
J. Romanes
Esqr/ 18.
Cornwall
Terrace/
Regents Park/
London N.W.]

Read Prof. [William] James, "Brute and Human Intellect," *Journal of Speculative Philosophy*, [12] (1878): 236-[76].

557 To [William Rathbone] GREG; Down/ 1878 Dec. 31 LS; 10.25 x8; B D25.10
Beckenham 5p.

Has read chapter on design and thinks it clever; corr.'s son should read book by "Physicus" and published by Trübner; none of corr.'s son's objections are new; see [Darwin], *Variation under Domestication* [(1868)], II, last three pages, on design in variation; [Gaston de] Saporta, Geinitz and Oppell, and [Melchior] Newmayr have found close series of fossil forms; fossil bones sometimes do not reveal fine differences; for CD's views on crossing eliminating new variations, see *Variation under Domestication*, chap. XX; corr.'s son forgets effects of isolation on crossing; corr.'s son "says I rest exclusively on natural selection; whereas no one else as far as I know has made so many observations on the effects of use & disuse. Nor do I deny the direct effect of external conditions, tho' I probably underrated their power in the earlier editions of the Origin. We know far too little about the laws of inheritance to argue about them: what is certain is that some new variations are strongly inherited from the first, whilst some seem never to very rarely to be transmitted; nor until trial is made can we predict what will be the result"; [Richard] Owen says open spaces in teeth of race horses were specially designed for bit; "no doubt the little jockeys were specially designed to ride them"; dismisses final cause for lowering of specific gravity of water upon freezing, giving bismuth as counterexample.

558 To G[eorge] J[ohn] ROMANES; [1879 January 18] [pmk. N on p.c.; 3 B D25.N
Down, Beckenham. JA18/ 79] x4 3/4; 1p.
and add. [G. J.

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Romanes Esq/
18 Cornwall
Terrace/
Regents Park/
London NW]

Sees advertised [Tito] Vignoli, [*Über das*] *Fundamentalgesetz der Intelligenz im Thierreich* [e
(Leipzig: 1879)].

559 To?: Down (type 8) 1879 Jan 31. LS; 8 x5; 2p. B D25.136

Will not sign corr.'s petition because does not consider himself as "coming with the class" who will sign it; thinks establishment of a professorship of pathology at Cambridge would be desirable; one of CD's sons says corr. errs about abolition of medical fellowships at Trinity.

560 To Karl HÖCHBERG; Down (type 9) 1879 Feb. 25th [pmk. FE25/ ALS; 8 B D25.18
(last two lines crossed out) 79] x5; 3p. and

env., add.
[Herrn Karl
Hochberg/
Castagnola/
presso
Lugano/
Switzerland]

Has never attended to vegetarian diet; only valuable evidence would be statistics on countries where inhabitants live on widely different diets; hardest workers CD ever saw, the miners in Chile, lived exclusively on vegetable diet including seeds of Leguminosae; but Gauchos are active and live almost exclusively on meat; in tropical Africa there is an extraordinary craving for meat at intervals, but inhabitants eat largely of seeds of Leguminosae, and *Arachis hypogaea* is widely cultivated.

561 To Léo [Abram] ERRERA; Down 1879 March 5th [pmk. MR ALS; 8 x5; B D25.224 #8
(type 9) 5/ 79] 2p. and env.,

add. [A/ M.
Léo Errera/
aux soins G.
Magolez/

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Libraire
Rue de
l'Impératrice/
Bruxelles.]

Has just returned from a week's absence to find present from corr. and [Gustave] Gevaert; ¹ will read it soon; corr.'s work is more than a vulgarization or popularization.

Other Descriptive Information

1. Errera and Gevaert, "Sur la Structure et les Modes de Fecondation des Fleurs et en Particulier sur l'Hétérostylie du *Primula elatior*," *Belg. Soc. Bot. Bull.*, 17 (1878): 38-181 and 182-248. See also letter to Errera, September 18, 1877, above.

562 To Léo [Abram] ERRERA; Down (type 9) (last two lines crossed out)	1879 March 13th [pmk. MR13/ 79]	ALS; 8 x5; B D25.224 #9 3p. and env., add. [Monr. Léo Errera/ aux soins G. Magolez/ Libraire - Edituer/ Rue de l'Impératrice/ Bruxelles/ Belgium.]
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Has read corr.'s book, containing new, original, and ingenious views; ¹ likes case of the staminoid [*sic*; staminode] of *Pentstemon* and observations on insects rarely visiting some varieties; that corr. and [Gustave] Gevaert will continue labors is "the earnest wish of one who is too old to do much more himself"; engraving of *Primula* is good; would like photograph of corr.

Other Descriptive Information

1. See preceding letter, above.

563 From [Léo Abram ERRERA]; no location	[ca. 1879 March 13]	Retained copy B D25.224 of AL, S by #10
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init.; 8 3/4

x5.5 2p.

Has delayed answering until a photograph of Errera was available; wishes photograph of CD in return; corr. and [Gustave] Gevaert are encouraged by CD's praise.

Other Descriptive Information

1. This is obviously a reply to the preceding letter, above.

564 To?; Down (type 8)	1879 June 4th	ALS; 8 x5; B D25.220 1p.
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Corr.'s note has much on measurement about which CD is incompetent; has asked son-in-law, [Richard Buckley] Litchfield, to look into the case and report to corr.

565 To [Edwin Ray] LANKESTER; Down (type 8)	1879 July 9th	ALS; 8 x5; B D25.55 3p.
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Thank authoress of "Key-notes" for her present; has lost appreciation for poetry, however; is glad corr. is to spend more time on original investigations, because corr. does "splendid work"; leaves for holiday in lakes soon; will read poetry there.

566 To [George John] ROMANES; Down (type 8)	1879 July 23d	ALS; 8 x5; B D25.N 3p. (enclosure wanting)
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Is grieved at what corr. says about [Charles] Grant [Blairfindie] Allen; sends check for L25 for the subscription; will give more if needed; sorry corr. and wife [Ethel Duncan Romanes] could not come to Down; has been ill; leaves for Coniston for a month on August 1; hopes weather stays as good as it is; encloses paper, but [Thomas] Meehan is a very inaccurate observer; good luck with medusas; regards to wife.

567 To [George John] ROMANES; Down (type 8)	[1879]	ALS; 8 x5; B D25.N 4p.
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Printed, with minor changes and minor omissions: *Life of Romanes*, 97-98. At end of letter is: how is poor [Charles] Grant [Blairfindie] Allen?

Other Descriptive Information

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1. Year determined by reference to Coniston in postscript; see "Darwin's Journal," 21. See also preceding letter, above.

568 To?; Down (type 8) 1879 Dec. 4th ALS; 8 x5; B D25.214
1p.

Thanks for note; remembers having seen same appearance in horses, but is unlikely to write ever again about variation of domesticated animals.

569 To [George John] R[OMANES]; Down [?1879-1882] ANS; 6 3/4 B D25.N
x5.25 1p.
(enclosure
wanting)

Enclosed received this morning; they may be worth taking to Linnean Society; agrees about the [Charles] Grant [Blairfindie] Allen affair. ¹

Other Descriptive Information

1. The Grant Allen episode began with letter to Romanes, July 23, 1879, above; CD died in 1882.

570 To [George John] ROMANES; Down 1880 Feb 3. LS; 8 x5; 3p. B D25.N
(type 8)

Printed, with minor changes: *Life of Romanes*, 94. line 6, add: two enclosed letters from [?John Fletcher] Moulton on the subject are worth reading, but they are private; please return them; Moulton does not think much of [Frederick] Guthrie as a physicist. At end of letter is: is glad to read [Charles] Grant [Blairfindie] Allen's letter; "we have all done a good work." ¹

Other Descriptive Information

1. See preceding letter, above; for reply, see *Life of Romanes*, 95-96.

571 To [George John] ROMANES; Down 1880 Feb 5. LS; 8 x5; 4p. B D25.N
(type 8) (enclosure
wanting)

Printed, with minor changes and minor omissions: *More Letters*, II, 51-52 (letter 420). At end of letter is: returns diagram.

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572 To W. TEARLE; Down (type 8) 1880. Apr. 16th [pmk. AP16/ ALS; 8 x5; B D25.46
80] 2p. and env.,
add. [W.
Tearle Esqr/
Cambridge
St/ St Neots/
Hunts.]

Private letter; cannot aid corr.; any remarks CD could make would add to corr.'s doubts on subjects which corr. considers sacred; "...every man ought to weigh for himself impartially & anxiously all the arguments for & against any revelation ever having been made to man.--"

573 To Cousin [Hensleigh WEDGWOOD]; 1880 May 5th ALS; 8 x5; B D25.242
Down (type 9) 3p.

CD and corr. have not met in some time; no good scientific journal would publish corr.'s essay; "Science progresses only by the discovery of new facts & direct deductions from them"; there have been too many attempts to reconcile Genesis and Science; considers death of corr.'s brother [Josiah Wedgwood, of Leith Hill Place] a grievous loss; there never existed "a man with a sweeter disposition."

574 To [George John] ROMANES; Down [1880] Nov. 14th ALS; 8 x5; B D25.N
(type 9) 4p.

Printed in full, with minor changes: *Life of Romanes*, 101-02.

575 To [George John] ROMANES; Down 1880 Nov. 15th ALS; 8 x5; B D25.N
(type 8) 4p.

Printed in full, with minor changes: *Life of Romanes*, 102-03.

576 To [George John] ROMANES; Down 1880 Dec 20th ALS; 8 x5; B D25.N
(type 9) 4p.

Thanks for pleasing note; ¹ Frank [i.e. Francis Darwin] thought that his papers interested no one; ² on corr.'s experiments, suggests canary grass and cabbage seedlings when short; fill pots to top, so rims will not make shade; plants should be kept in complete darkness until time for experiment, making

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them sensitive to light and upright; comparing effects of intermittent light upon plants with effects upon animals will be interesting; corr.'s last sentence amused CD; [Ethel Duncan] Romanes is right to forbid monkey from nursery.

Other Descriptive Information

1. See *Life of Romanes*, 104-05.
2. See Francis Darwin, "The Theory of the Growth of Cuttings...", *J. Linn. Soc. (Botany)*, 18 (1881): 406-19; and *idem*, "On the Power Possessed by Leaves of Placing Themselves at Right Angles to the Direction of Incident Light," *ibid.*, 420-55.

577 To [John Maurice HERBERT]; Down [1880] Dec. 25th ALS; 8 x5; B D25.H
(type 9) 4p.

Printed in full, with minor changes: Sir Gavin de Beer, ed., "The Darwin Letters at Shrewsbury School," *Notes Rec. R. Soc. Lond.*, 23 (1968): 73-74. p. 73, line 4, change "also like" to "also much like" and change "something" to "anything". p. 73, line 12, change "me" to "us".

578 To [George John] ROMANES; 4 [1880-1881] ALS; 8 x5; B D25.N
Bryanston St. ¹ 1p.

Thanks; if able to see [Thomas Henry] Huxley, will not be able to see corr. before noon; will see corr. in afternoon if corr. calls then.

Other Descriptive Information

1. Down address variant, type 8, is crossed out. This letter is in the shaky hand characteristic of CD from late 1880 onwards; CD's last visit to Bryanston Street was in 1881.

579 To?; Down (type 9) 1881 Jan 20th ALS; 8 x5; B D25.32
1p.

Required address is "A. R. Wallace Esq./ Pen-y-Bryn/ St. Peters Road/ Croydon."; letter with unexpected news about date of pension [for Alfred Russel Wallace] makes CD happy, because Wallace can rest immediately from literary work and devote strength to natural science; receipt of letters has been delayed by snow drifts.

580 To [George John] ROMANES; Down 1881 Jan 24 LS; 8 x5; 3p. B D25.N
(type 8) (enclosure
wanting)

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Romanes can buy young pigs, but they must be inspected first and none will pass inspection because infection is about; another obstacle would be the immense snow drifts; keep enclosed letter from [Jean Henri] Fabre. ¹

Other Descriptive Information

1. For CD's reply to Fabre's letter, see *More Letters*, I, 385-86 (letter 298).

581 To [George John] ROMANES; Down 1881 Jan 28th ALS; 8 x5; B D25.N
(type 9) 4p.

Has just read corr.'s review in *Nature*; [Samuel Butler] will "smart under your stricture" unless he is "as callous as a rhinoceros"; corr. has been too severe; corr. is right to attribute [Butler's] conduct to "the disappointment of his inordinate vanity"; it is psychological curiosity that [Butler] should suppose that [Thomas Henry] Huxley lectured and [John] Murray advertised [Ernst Krause, *Erasmus Darwin* (1879)] because of his book [Butler, *Evolution Old and New...* (London: Hardwicke & Bogue, 1879)]; [Butler] will hate corr.; thanks for saving CD from [Butler's] "malignant revenge"; [Ernst Ludwig] Krause's letter is very good and strictly accurate; it is lucky corr. did not come to get pigs, for infection is severe, strictest rules are observed, and as magistrate, CD must give orders daily for animals to cross roads, even if only from one field to another on same farm. ¹

Other Descriptive Information

1. See: Romanes, "Unconscious Memory," *Nature*, 23 (1880-1881): 285-87; and Krause, "Unconscious Memory--Mr. Samuel Butler," *Nature*, 23 (1880-1881): 288.

On pigs, see preceding letter, above.

582 To [George John] ROMANES; Down 1881 Feb. 11th ALS; 8 x5; B D25.N
(type 9) 2p.

Thanks for second letter in *Nature*; is particularly pleased by first part; sympathy expressed privately and publicly toward CD almost makes CD glad that [Samuel] Butler attacked him. ¹

Other Descriptive Information

1. See Romanes, "Mr. Butler's 'Unconscious Memory'," *Nature, Lond.*, 23 (1880-1881): 335-36. On Butler controversy in general, see Barlow, ed., *Autobiography*, 167-219. See also: preceding letter, above; and *Life and Letters* III, 220.

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583 To T[homas] R[oscoe] R[ede] STEBBING; Down (type 9)	1881 Feb. 11th [pmk. FE11/ 81]	ALS; 8 x5; B D25.132 4p. and env., add. [The Revd. T. R. R. Stebbing/ Tunbridge Wells]
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Thanks for letter in *Nature*; case is well put, and corr. interprets CD's conduct accurately; has no idea how he merited such vehemence from [Samuel] Butler; [Ernst Ludwig] Krause's failure to mention the correction and enlargement of his text was accidental; CD failed to mention these extra efforts by Krause because CD was busy with experiments; the historical sketch appeared for the first time in third edition of [Darwin, *Origin* (1861)]; there was no time to put it in second edition [1860].¹

Other Descriptive Information

1. See Stebbing, "Mr. Butler's 'Unconscious Memory'," *Nature, Lond.*, 23 (1880-1881): 336. See also preceding letter, above.

584 To [George John] ROMANES; Down (type9)	[1881] March 7th	ALS; 8 x5; B D25.N 4p.
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Printed in full, with minor changes: *More Letters*, II, 213-14 (letter 548).

585 To [George John] ROMANES; Down (type 8)	[1881]	ALS; 8 x5; B D25.N 3p.
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Thanks for letter; ¹ corr.'s remarks on consciousness and self-consciousness are good; may have worked for weeks to no avail; CD's experiments showed that worms do learn, but CD dare not trust results; will try to eliminate source of doubt.¹

Other Descriptive Information

1. This letter is almost certainly an answer to Romanes's reply to the preceding letter, above. See also *More Letters*, II, 215 (letter 549).

586 To [George John] ROMANES; Down (type 8) (last two lines crossed out)	1881 Mar 26.	LS; 8 x5; 4p. B D25.N
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Printed in full, with minor changes: *Life of Romanes*, 108-09.

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587 To [George John] ROMANES; Down 1881 Ap. 16 ALS; 8 x5; B D25.N
(type 9) 10p.

Printed in full, with minor changes: *Life of Romanes*, 109-12. p. 111, line 11, change "prick" to "pith". p. 111, line 22, change "softer" to "softest". Printed, with minor changes and minor omissions: *Life and Letters III*, 243-45.

588 To [George John] ROMANES; Down 1881 Ap. 18th ALS; 8 x5; B D25.N
(type 9) 8p.

Printed, with minor changes: *Life of Romanes*, 114-16. p. 115, line 1 following signature, add: "I am extremely glad that you seem to have silenced [Samuel] Butler and his reviewers. But Mr Butler will turn up again, if I know the man."

Printed: *More Letters*, II, 431-32 (letter 431). See full text for changes. Printed: *Life and Letters III*, 206. See full text for changes.

589 To [George John] ROMANES; Down 1881 April 25th ALS; 8 x5; B D25.N
(type 9) 4p.

Printed, with minor changes: *Life and Letters III*, 208-09. p. 208, line 15, change "with Miss Cobbe....." to "with the sweet Miss [Frances Power] Cobbe.-- Good Heavens what a liar she is: did you notice how in her second letter she altered what she quoted from her first letter, trusting to no one comparing the two?"¹

Other Descriptive Information

1. See: Cobbe, "Mr. Darwin and Vivisection," *London Times*, April 19, 1881, p. 8; and *idem*, "Mr. Darwin on Vivisection," *London Times*, April 23, 1881, p. 8.

590 To W[illiam Erasmus DARWIN]; [1881] ALS; 8 x5; B D25.139
Down. 2p.

Does not know what to do with L3,000 from United States funded loan; has too much in railways; sees that United States is offered \$ 1 million in bonds at three and a half per cent; does this indicate that U.S. is a good security; please advise CD about what to do with the investment.

Other Descriptive Information

1. This letter is written in the shaky hand characteristic of CD from late 1880 to his death in April, 1882. This leaves May of 1881 as the only May in which "shaky hand" letters were written.

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591 To?: Glenrhydding House/ Patterdale, 1881 Jun 17th. ALS; 8 x5; B D25.95
 Penrith ¹ 1p. (enclosure
 wanting)

Thanks for enclosed paper; case is curious and "an awful look-out for palaeontologists"; thinks there are analogous cases with the Pulmoniferae; is surprised that author says it is not established that one mollusc can be parasitic within shell of another.

Other Descriptive Information

1. Down address variant, type 8, is crossed out.

592 To?: Glenridding House/ Patterdale/ 1881 June 22 LS; 8 x5; 3p. B D25.204
 Penrith ¹

Suggests modification in corr.'s trials in formation of diamonds; use flesh of animal for carbon, as this may be nature's source of carbon for diamonds; has long wanted to see what chemicals resulted from slow cooling, after much heating, of all the elements one might find in living organisms; imagines a protein might be generated; this is example of " `a fool's experiment' ", the likes of which CD tries now and then for fun, with interesting side-results occasionally.

Other Descriptive Information

1. Down address variant, type 8, is crossed out.

593 To R[euben] A. BLAIR; Down (type 9) 1881 June 25th [pmk. ALS; 8 x5; B D25.203
 AMBLESIDE 25 JU/ 81] 1p. and env., #11
 add. [R. A.
 Blair Esqr--/
 Sedalia/ Mo./
 U. States]

Thanks for kind expressions; congratulations about mastodon remains; "I hope that the study of natural history may give your daughter a large share of the satisfaction which the study has given me.--"

594 To [George John] ROMANES; Down [1881] July 4th ALS; 8 x5; B D25.4
 (type 8) 3p.

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Leaves for Penrith in a few hours; will be at Down tomorrow night; has heard from [John] Collier, and wife [Emma Wedgwood Darwin] has arranged everything [for portrait of CD by Collier]; rejoices about corr.'s book; wants to know what corr. thinks about "the German Physiologico-Evolution book ¹ & about the Creed of Science"; has read the latter with much interest; "I rejoice for my own private eating that you have taken to review & write so much in Nature, & if it does not waste too much of your time you thusly do a public service.-- Nature seems to me an excellent Journal, & I look forward weekly with pleasure to reading or skimming the whole."

Other Descriptive Information

1. Perhaps Wilhelm Roux, *Der Kampf der Theile in Organismus...* (Leipzig: 1881).

595 To?; Down (type 9)	1881 August 5th	ALS; 8 x5; B D25.84 1p. (enclosure wanting)
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Never lends money; but since corr. seems in need, encloses check for L30 as a present; this might support corr. while he is [learning? leaving?] the special department; cannot assist further; acknowledge.

596 To [George John] ROMANES; Down (type 9)	[1881] Augt. 7th	ALS; 8 x5; B D25.N 2p.
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Printed in full, with minor changes: *Life of Romanes*, 120. One sentence printed: *Life and Letters III*, 223.

597 To [George John] ROMANES; Down (type 9)	1881 Sept. 2d.	ALS; 8 x5; B D25.N 8p.
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Printed, with minor changes and minor omissions: *Life of Romanes*, 123-25. At end of letter is: thanks for invitation to sons, but none of them will be in Scotland.

Printed, with changes: *Life and Letters III*, 209-10. ¹

Other Descriptive Information

1. For letter to CD for which this letter is reply, see *Life of Romanes*, 121-23.

598 To [George John] ROMANES; Down (type 9) (black border) ¹	[1881] Oct 14th	ALS; 7 x4.5 B D25.N 3p.
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Printed in full, with minor changes: *Life of Romanes*, 126-27.

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Other Descriptive Information

1. CD's brother Erasmus Alvey Darwin died on August 26; see "Darwin's Journal," 21 and 21n.

599 To?; Down (type 9)	1881 November 2d.	ALS; 8 x5; B D25.51 3p.
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Thanks for informing CD of error; perhaps amount per square yard was one pound, fourteen and a half ounces instead of one pound thirteen and a half ounces; calculations were checked; two other errors have been discovered, but they are so flagrant that no one was fooled; will try to find source of error.

600 To?; Down (type 9)	1881 Nov. 6th	ALS; 8 x5; B D25.52 3p.
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Can now explain blunder about amount of earth ejected per acre; in one calculation, assumed that worms worked 45 days, while in another, assumed they worked 40 days; concluded that shorter period was correct, but forgot to go back and correct; a son of CD finds relation between weight for square yard and for acre correct as given. ¹

Other Descriptive Information

1. See preceding letter, above.

601 To [George John] ROMANES; Down (type 9)	1881 Nov. 12th	ALS; 8 x5; B D25.N 4p.
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Printed in full, with minor changes: *More Letters*, I, 395-96 (letter 308).

602 To?; no location	[1881 November] [end. Recd. Nov 1881]	AN, S by B D25.223 init.; 4.5 x7.25 2p., end. [Recd. Nov. 1881]
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What does [Wilhelm Friedrich Philipp] Pfeffer mean in relation to [Julius Ritter von] Wiesner's book [*Das Bewegungs-vermögen der Pflanzen...* (Wien: 1881)]; Wiesner thinks process of light bending plant towards it is a direct effect, but CD thinks light is merely a stimulus that tells plant which way to bend; thought Pfeffer was on Wiesner's side; thinks this might help corr. and Mr [Patroll?] in understanding Pfeffer's difficult style.

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603 To [George John] ROMANES; Down 1881 Dec. 8th ALS; 7 B D25.N
 (type 9) (black border) ¹ x4.5 3p.
 (enclosures
 wanting)

Returns letters and acknowledges check for £12.10; circular is grand and [Charles Grant Blairfindie] Allen is noble; nothing can be done by subscribers; suggests giving microscope to Allen; will be in London next week and will see corr.; is overwhelmed with "stupid letters"; will send [Darwin], *Origin* [(1880)]. ²

Other Descriptive Information

1. CD's brother Erasmus Alvey Darwin died on August 26.
2. See Edward Clodd, *Grant Allen: A Biography* (London: Grant Richards, 1900), 84-85. See also letter to Romanes, February 3, 1880, above.

604 To [George John] ROMANES; Down [1881] Dec. 10th ALS; 8 x5; B D25.N
 (type 9) 2p.

Cannot help [James Cossar] Ewart; has already written testimonial for [Edwin] R[ay] Lankester, and has on this ground declined to give one for [William Carmichael] Mc. Intosh [*sic*; M'Intosh], "of whose work I have a very high opinion; thinks Ewart is fit; remembers interesting interview with Ewart and bacteria at University College laboratory; will be in London after Thursday [December 15]; will see corr. then.

605 To?; Down (type 9) 1881 Dec. 16th ALS; 8 x5; B D25.100
 3p.

Letter from corr. to CD's *late* brother Erasmus [Alvey Darwin] has been forwarded to CD; Erasmus had nothing to do with the Congress; CD was not a member either, although CD went to London to be introduced to some members; was asked to Lady [Sophia Coutts Burdett, styled] Burdett-Coutts' party, but did not attend; it would therefore be inappropriate to include CD's likeness into corr.'s composition; if corr. still wishes to do so, will send "an excellent, unpublished photograph of myself, made by my son Lieut: [Leonard] Darwin"; is too busy and weak to give a sitting.

606 To [George John] ROMANES; 4 [1881 December] ALS; 7 x4.5 B D25.N
 Bryanston St. (black border) ² 3p.

Calendar of Letters

Wants to see corr. before leaving London; will see [Thomas Henry] Huxley tomorrow morning; will see [Andrew] Clark this evening; call upon CD later tomorrow or early Monday; if well, will see [John Scott] Burdon-Sanderson on Monday; "My visit to London has been rather a failure, for I have been able to do hardly anything."

Other Descriptive Information

1. There was only one Saturday the 17th on which CD was at Bryanston Street; see "Darwin's Journal," 19-21.
2. CD's brother Erasmus Alvey Darwin died on August 26.

607 To [F. W.] SURMAN; Down (type 9) [1881] Dec. 19th ALS; 8 x5; B D25.233
1p.

Please write to CD at Down, giving full name, birth date, age, duration of corr.'s having lived with CD's brother [Erasmus Alvey Darwin], and duration of corr.'s having lived at previous place, with name and address of family.

608 To [F. W.] SURMAN; Down (type 9) 1881 Dec. 22d. ALS; 8 x5; B D25.232
2p.

Corr.'s case is hopeless, since [Albert Carl Ludwig Gotthilf] Günther says *that the man must not be beyond 30 years age*; moreover, permission of one of the three *chief* trustees must be obtained before application; has no influence on archbishop, Chancellor, and Speaker; sorry for disappointment; Günther says number of applicants is great.¹

Other Descriptive Information

1. See preceding letter, above.

609 To [George John] ROMANES; Down [1882] 1881 (type 9) ALS; 8 x5; B D25.N
8p.

Printed, with minor changes: *More Letters*, I, 389-90 (letter 302). At end of letter is: received December number of *Nineteenth Century* with corr.'s article, but has not yet read it;² has had note from [Charles] Grant [Blairfindie] Allen, which calls CD's attention to "capital fact about Sexual Selection" in [Nils Adolf Erik Nordenskiöld,] *Voyage of the Vega [Round Asia and Europe...*, tr. Alexander Leslie, 2v. (London: Macmillan and Co., 1881)], II, 97.

Other Descriptive Information

Calendar of Letters

1. Mention of Brazilian Legation in this letter couples it with the two subsequent letters, below. See also date of publication in note 2, below. Apparently CD erred, as one is wont to do on the first day of the new year, by writing down the previous year.

2. Romanes, "Intelligence of Ants II," *Nineteenth Century*, 10 (July-December 1881): 245-58.

610 To [George John] ROMANES; Down Beckenham	[1882]	ALS; 4.5 x7; B D25.N 1p.
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Brazilian Legation says documents were intended for CD; secretary [of the Legation] is sure the Baron [de Villa Franca] would be gratified if statements were published; what does corr. think about whole story; return documents.

Other Descriptive Information

1. See subsequent letter, below.

611 To [George John] ROMANES; Down (type 9)	1882 Jan 6th	ALS; 8 x5; 3p. (enclosures wanting)	B D25.N
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Is glad to shirk extra labor, so accepts corr.'s offer to prepare paper for Linnean Society and abstract for *Nature*; will send copies to the Baron [de Villa Franca] and Dr. Glass [Superintendent of the Botanic Garden, Rio de Janeiro]; suggests an introduction for paper; has scribbled an outline for paper; agrees with corr. about the microscope and [Charles] Grant [Blairfindie] Allen.¹

Other Descriptive Information

1. See preceding two letters. See also Baron de Villa Franca and Dr. Glass, "On New Varieties of the Sugar-cane Produced by Planting in Apposition," *Proc. Linn. Soc. Lond.*, November 1880-June 1882, 30-31. On Allen and the microscope, see letter to Romanes, December 8, 1881, above.

612 To [George John] ROMANES; Down (type 9)	1882. Jan. 20th	ALS; 8 x5; 2p.	B D25.N
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Sees propriety of [George] Croom Robertson's proposal; agrees to all that corr. proposes; cannot personally see the advantage of waiting until another half-payment is made, prefers to see testimonial or present given at once; does not wish to impose CD's judgment on Robertson.¹

Other Descriptive Information

Calendar of Letters

2. Darwin, "The Action of Carbonate of Ammonia on Chlorophyll-bodies," *J. Linn. Soc. (Botany)*, 19 (1882): 262-84.

616 To [Trübner & Co.]; Down (type 7)	[1882] Feb. 9th [end. 11 FEB 1882]	AL in third person; 4 3/4 x7.5 1p., end. by stamp [Trübner & Co./ 11 FEB 1882/ London]	B D25.53
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Orders International Sc[ientific] Dict[ionary] to be sent by post.

617 To?; Down, Kent	1882. March 29th	AN in third person S; 8 x5; 1p.	B D25.122
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CD thinks Mr [Loeb? Loct?] ought to have sent an addressed envelope.

618 To [Philip Lutley] SCLATER; Down (type 9)	1882 April 3d	ALS; 8 x5; 1p. and end. [733] (enclosure wanting) ¹	B D25.S
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Sends enclosed paper to be read at Zoological Society and to be printed in the Journal, if referees recommend; if paper is rejected, would appreciate its return, so it can be submitted to *Nature*; wants its contents recorded. ¹

Other Descriptive Information

1. Paper is probably W. Van Dyck, "On the Modification of a Race of Syrian Street-Dogs by Means of Sexual Selection, with a Preliminary Notice by Charles Darwin," *Proc. zool Soc. Lond.*, 1882, 367-70.

619 To?; Down (type 9)	1882 April. 17th	ALS; 8 x5; 3p.	B D25.240
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Calendar of Letters

Corr. has misunderstood CD, but mistake was a natural one and the criticism was good; ought not to have interpolated the sentence about the burying of food; ¹ case was mentioned to illustrate a long-continued habit, since CD thinks well-fed domestic dogs do not revisit their buried treasures; when burying food, dog makes hole with front legs alone and shovels in the earth with his nose; there is no resemblance to excrement-covering movements; thanks for courteous expressions.

Other Descriptive Information

1. See Darwin, *Variation under Domestication* (1868), I, 182.

1882 April 19--CD died at four in the afternoon.

620 To "My dear Camilla"; Down.	n.y. Feb. 21	ALS; 4.5 x7; B D25.222 1p. (enclosure wanting)
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Look at enclosed letter from an "odd & good-hearted man"; no one at Down can make it out; do not translate whole letter, but only part in which the man recommends some treatment; doubts if CD should try it; does writer of the letter seem to know what is the matter with CD?

621 To [John William] LUBBOCK, [Baron Avebury]; Down.	n.y. 14th	ALS; 7 3/4 x4B D25.87 3/4; 3p.
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Received yesterday enough specimens of *Helix pomatia* [edible snail] "for my Snailery"; thanks for Lepidoptera books, which CD's sons study with interest; give number of acres in [Larch?] wood, and when planted; have collected in it about 115 species of plants; Leonard Horner comes to Down on Monday; if corr. would like to meet Horner, come for supper on Tuesday; the Carters (staying at Colonel [Caters?] house) and [John Brodie] Innes and wife.

622 To G. DENNY; no location	n.d.	Address leaf B D25.221 only, which reads "G. Denny Esqr/ Philosophical Hall/ Leeds"; 2 x7
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Calendar of Letters

623 To [John PHILLIPS]; no location	n.d.	ALS; 6.5 x5; 1p., incomplete	B D25.123 #6
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Has not yet received book, but thanks for note; book will surely interest CD.

624 To G[eorge] J[ohn] ROMANES; Down, Beckenham.	n.d.	AN, S by init., on p.c.; 1p. and add. [G. J. Romanes Esqr/ Dunskaithe/ Nigg/ Rosshire]	B D25.N
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Has not read corr.'s letter; asks permission to show it to George [Howard Darwin], who arrived recently, and to CD's other sons; will tell them to keep it secret if corr. wishes, but a secret cannot forever be well kept owing to forgetfulness.

625 To [George John ROMANES]; no location	n.d.	?AN; 8 x5; 1p.	B D25.N
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"18 Cornwall Terrace [Romanes's address]/ Linn. Soc. & List/ Carrots--Rabbits--gray same side/
Copy of Var. under Dom./ fuller [abstract?] of Potato-grafts/ [Francis] Galton's article on Pangenesis./
Medusa & Royal Soc/ 11. York Place" ¹

Other Descriptive Information

1. See: Darwin, *Variation under Domestication* (1875), I, 420-22; and Galton, "Experiments in Pangenesis, by Breeding from Rabbits of a Pure Variety, into Whose Circulation Blood Taken from Other Varieties Had Previously Been Largely Transfused," *Proc. R. Soc.*, 19 (1871): 393-410.

626 To Paget, James: no location	n.d.	A fragment of L; 1 3/4 x6; 2p.	B P212
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"I am greedy for facts.--"

Calendar of Letters

Other Descriptive Information

See Paget (1901): 407 for reference to this statement

Signed portion of scientific papers. 1877 February 13

Signed portion of scientific papers.

[\[http://diglib.amphilsoc.org/fedora/repository/graphics:4535\]](http://diglib.amphilsoc.org/fedora/repository/graphics:4535)

Descent of Man manuscript pages. n. d.

Desent of Man manuscript pages.

[\[http://cdm.amphilsoc.org/u?/bio,28\]](http://cdm.amphilsoc.org/u?/bio,28)

Origin of Species Manuscript pages. n. d.

Origin of Species manuscript pages.

[\[http://cdm.amphilsoc.org/u?/bio,31\]](http://cdm.amphilsoc.org/u?/bio,31)

Non-Carroll Darwin Materials

Non-Carroll Darwin Materials

Smith, James Edward, Sir, 1759-1828 [1791] 2x8

Letter to [Mrs. Frances Kinderley Smith];

A.L. 1p. Fragment. (see Lyell album, C). Formerly B D25.L1

Banks, Joseph, 1743-1820 May 10, 1791 9x7-1/2

Letter to ----;

Soho Square, A.L.S. 4p., end. (see Lyell album, C) Botany. Formerly B D25.L1.

Darwin, Erasmus, 1731-1802 1799, March 18

Letter to Mrs. Greaves

Sowerby, James, 1757-1822 Jan. 1, 1806 8-1/2x6-1/2

Letter to Charles Lyell, Hampshire;

Lambeth, A.L.S. 3p. and add., end. (see Lyell album, C) Botany. Formerly B D25.L1.

Sowerby, James, 1757-1822 Feb. 9, 1806 8x6-1/2

Letter to Cha[rles] Lyell, Lindhurst;

Lambeth, A.L.S. 3p. and add., end. (see Lyell album, C) Botany. Formerly B D25.L1.

Sowerby, James, 1757-1822 July 20, 1806 8x6

Letter to Cha[rles] Lyell, Lyndhurst;

Lambeth, A.L.S. 4p., add., end. (see Lyell album, C) Geology, natural history, and botany. Formerly B D25.L1.

Banks, Joseph, 1743-1820 Oct. 23, 1808 9x7

Letter to ----;

A.L.S. 1p. (see Lyell album, C) Refuses to recommend him for the Royal Society. Formerly B D25.L1.

Don, George, 1798-1856 Nov. 18, 1808 8x6-1/2

Letter to Charles Lyell;

Non-Carroll Darwin Materials

A.L.S. 1p. and end. Enc. wanting. (see Lyell album, C) Botany. Formerly B D25.L1.

Darwin, Charles, 1809-1882. 1809-1882

Autographs:

address leaves to Asa Gray, J. Jenner Weis, and Mr. Pfeiffer, and a note "With Mr. D'[s] compliments." A.D. 4 items. Various sizes. Presented by Goodspeed's Book Shop; Dec. 1970.

Smith, James Edward, Sir, 1759-1828 Jan. 14, 1809 8-1/2x7-1/2

Letter to C[harles] Lyell, Lyndhurst;

Norwich, A.L.S. 3p. and add.,end. (see Lyell album, C) Botany. Formerly B D25.L1.

Don, George, 1798-1856 June 19, 1812 9x7-1/2

Letter to Charles Lyell, Southampton;

A.L.S. 3p. and add., end. (see Lyell album, C) Botany. Mentions Hooker. Formerly B D25.L1.

Turner, Dawson, 1775-1858 March 17, 1817 10x8

Letter to Charles Lyell, Southampton;

A.L.S. 4p., and., end. (see Lyell album, C) Friendly letter. Mentions Hooker. Formerly B D25.L1.

Turner, Dawson, 1775-1858 April 4, 1817 10x8

Letter to Charles Lyell, Southampton;

Yarmouth, A.L.S. 4p., add., end. (see Lyell album, C) Asks advice about a trip to France. Mentions Hooker. Formerly B D25.L1.

Smith, James Edward, Sir, 1759-1828 May 3, 1818 9x7-1/2

Letter to Lady [Pleasance Reeve] Smith, Suffolk;

Chapel Place, A.L.S. 4p., add., end. (see Lyell album, C) Newsy letter of London and the royal family. Formerly B D25.L1.

Hooker, William Jackson, Sir, 1785-1865 Nov. 2, 1818 9x7-1/2

Letter to Cha[rle]s Lyell, Scotland;

Halesworth, A.L.S. 4p.,add.,end. (see Lyell alblmm, C) Botany. Friendly letter. Formerly B D25.L1.

Non-Carroll Darwin Materials

Fleming, John, 1785-1857	Nov. 11, 1826	8" x 10"
Letter to Charles Lyell;		
Manse of Flisk, A.L.S. 3p. and add., end. Seal. Deposits of marine deluvium in England and Scotland.		
Settlement of £12,000 in favour of Mrs. Fox 1828, April 8		
Murchison, Roderick Impey, Sir, 1792-1871	Oct. 2, 1828	8" x 10"
Letter to C[harles] Lyell;		
Botzen, A.L.S. 6p. diag. Geological trip through		
Murchison, Roderick Impey, Sir, 1792-1871	Oct. 25, 1828	8" x 10"
Letter to C[harles] Lyell;		
Paris, A.L.S. 4p., add., end. il.		
Scrope, George Poulett, 1797-1876	Dec. 23, 1828	9x7-1/4
Letter to [Sir] Cha[rles] Lyell, [bart.];		
A.L.S. 4p.,add.,end. Seal. Concerning the geology of volcanoes. Refers to Buckland and Murchison.		
Murchison, Roderick Impey, Sir, 1792-1871	July 27, 1829	8" x 10"
Letter to Charles Lyell;		
Töplitz, Bohemia, A.L.S. 4p., add., end. il.		
Murchison, Roderick Impey, Sir, 1792-1871	Aug. 31, 1829	8" x 1 10"
Letter to Charles Lyell;		
Gmunden on the Trauen See, A.L.S. 4p.[i.e.6p.], add., end.		
Fleming, John, 1785-1857	Oct. 3, 1829	7 1/2" x 9"
Letter to Charles Lyell;		

Non-Carroll Darwin Materials

Manse of Flisk, A.L.S. 2p. and add., end. Discovery of reed-leaflike and berry-like impressions in culm at Carmylie (?) quarries like those at Parkhill.

Forchhammer, G. (Georg), 1794-1865 Nov. 20, 1829 10x8-1/2

Letter to Charles Lyell, London;

Copenhagen, A.L.S. 3p. and add., end. (see Lyell album, C) Concerning a proposed trip. Formerly B D25.L1.

Scrope, George Poulett, 1797-1876 March 21, 1830 9x7-1/4

Letter to [Sir] C[harles] Lyell, [bart.];

A.L.S. 4p.,and.,end. Concerning geological activity on the ruins of the temple of Seraphis in Italy. Friendly letter.

Scrope, George Poulett, 1797-1876 May 9, 1830 9x7-1/4

Letter to [Sir] Cha[rle]s Lyell, [bart.];

A.L.S. 5p.and add.,end. Seal. Concerning geology and earthquakes as caused by volcanic action. Refers to Sedgwick.

Scrope, George Poulett, 1797-1876 June 11, 1830 9x7-1/4

Letter to [Sir] Cha[rle]s Lyell, [bart.];

A.L.S. 4p.,add.,end. Concerning geology.

Fleming, John, 1785-1857 Sept. 6, 1830 8" x 10"

Letter to Charles Lyell;

Manse of Flisk, A.L.S. 3p. and add., end. Comments on Lyell's principles of Geology. Discord in Wernerian society.

MacKenzie, George Steuart, Sir, 1780-1848 Nov. 29, 1830 9x7-1/2

Letter to [Sir] Charle Lyell, [bart.];

A.L.S. 4p.,and.,end. Seal. Congratulates him on his book on geology. Concerning fossils. Refers to Buckland and Hooker.

Mantell, Gideon Algernon, 1790-1852 1830? 9x7-1/4

Non-Carroll Darwin Materials

Letter to [Sir] Charles Lyell, [bart.];

ca. A.L.S. 2p.and add.,end. Friendly letter. Concerning fossils. Refers to Clift.

Whewell, William, 1794-1866

Jan. 31, 1831

9-1/2x7-3/4

Letter to [Sir] C[harles] Lyell, [bart.];

A.L.S. 4p.,add.,end. Concerning etymology. Printed: Todhunter,Wm.Whewell...;v.1, 109-111.

Lyell, Charles, Sir, 1797-1875

Feb. 19, 1831

9x7-1/4

Letter to [Sir] C[harles] Lyell, [bart.];

A.L.S. 3p.and add., end. Concerning etymology. Printed: Todhunter,Wm.Whewell...;v.1, pp.111-113.

Whewell, William, 1794-1866

Feb. 19, 1831

9x7-1/4

Letter to [Sir] C[harles] Lyell, [bart.];

A.L.S. 3p.and add.,end. Concerning etymology. Printed: Todhunter,Wm.Whewell...;v.1, pp.111-113.

Whewell, William, 1794-1866

Feb. 22, 1831

9-1/2x8

Letter to [Sir] Cha[rle]s Lyell, [bart.],
London;

A.L.S. 3p.and add.,end. Concerning etymology. Printed: Todhunter, Wm.Whewell...;v.1, 113-114.

Conybeare, William Daniel, 1787-1857

March 25, 1831

9x7-1/4

Letter to [Sir] C[harles] Lyell, [bart.],
London;

A.L.S. 3p.and add.,end. Concerning geology and religion.

Scrope, George Poulett, 1797-1876

April 12, 1831

9x7-1/4

Letter to [Sir] C[harles] Lyell, [bart.];

A.L.S. 4p.,add.,end. Friendly letter. Concerning geology. Refers to Murchison and Buckland.

Scrope, George Poulett, 1797-1876

May 8, 1831

9x7-1/4

Letter to [Sir] C[harles] Lyell, [bart.];

A.L.S. 4p.and add.,end. Concerning volcanoes.

Non-Carroll Darwin Materials

Mantell, Gideon Algernon, 1790-1852 May 15, 1831 8-3/4x7-1/4
 Letter to [Sir] Charles Lyell, [bart.],
 London;

A.L.S. 4p.,and add.,end. Friendly letter. Concerning fossils. Refers to Scrope.

Henslow, J. S. (John Stevens), 1796-1861 June 14, 1831 9x7-1/2
 Letter to C[harles] Lyell;

Cambridge, A.L.S. 3p. and add., end. (see Lyell album, C) Botany. Formerly B D25.L1.

Henslow, J. S. (John Stevens), 1796-1861 June 19, 1831 9-1/2x7-1/2
 Letter to C[harles] Lyell;

Cambridge, A.L.S. 3p. and add., end. (see Lyell album, C) Suggests corrections in his book.
 Formerly B D25.L1.

De La Beche, Henry T. (Henry Thomas), 1796-1855 Aug. 20, 1831 9x7-1/4
 Letter to [Sir] Charles Lyell, [bart.];

Lyme Regis, A.L.S. 4p.,add.,end. Seal. Concerning the after/effects of the earthquake at Port Royal.

De La Beche, Henry T. (Henry Thomas), 1796-1855 Aug. 22, 1831 9x7-1/4
 Letter to [Sir] Charles Lyell, [bart.],

London;

A.L.S. 4p.,add.,end. Seal. Concerning the earthquake at Port Royal.

Klotzsch, Fr. (Friedrich), 1805-1860 March 14, 1832 10x8
 Letter to Charles Lyell;

Berlin, A.L.S. 2p. and add. In German. (see Lyell album,C) Formerly B D25.L1.

Scrope, George Poulett, 1797-1876 March 20, 1832 9x7-1/4
 Letter to [Sir] Charles Lyell, [bart.];

Non-Carroll Darwin Materials

A.L.S. 4p.,add.,end. Seal. Concerning volcanoes and earthquakes. Congratulates him on his work in geology.

Babbage, Charles, 1791-1871 May 3, 1832 8-3/4x7-1/4
Letter to [Sir] Cha[rle]s Lyell, [bart.];

A.L.S. 3p.and add.,end. Concerning Lyell's lectures on geology. Refers to Murchison.

Babbage, Charles, 1791-1871 May 19, 1832 8-3/4x7-1/4
Letter to [Sir] Ch[arle]s Lyell, [bart.];

A.L.S. 4p.,add.,end. Concerning sedimentation. Refers to Buckland.

Babbage, Charles, 1791-1871 May 21, 1832 8-3/4x7-1/4
Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 4p.and end. Concerning the geology of volcanoes. Concerning ripple marks.

Babbage, Charles, 1791-1871 May 24, 1832 8-3/4x7-1/4
Letter to [Sir] C[harles] Lyell, [bart.];

A.L.S. 2p.and add.,end. Seal. Concerning ripple marks.

Babbage, Charles, 1791-1871 May 29, 1832 8-3/4x7-1/2
Letter to [Sir] Ch[arle]s Lyell, [bart.];

A.L.S. 2p. and add., end. Seal. Concerning sediments. Refers to Herschel.

Babbage, Charles, 1791-1871 May 30, 1832 8-3/4x7-1/4
Letter to [Sir] Charles Lyell, [bart.];

A.L.S. 2p.and end. Geological movements of the earth as reflected by the temple of Seraphis in Italy.

Mantell, Gideon Algernon, 1790-1852 Sept. 29, 1832 9x7-1/4
Letter to [Sir] Charles Lyell, [bart.];

A.L.S. 3p.and add.,end. Concerning fossils. Refers to Agassiz.

Scrope, George Poulett, 1797-1876 Sept. 29, 1832 9x7-1/4
Letter to [Sir] Charles Lyell,[bart.];

Non-Carroll Darwin Materials

A.L.S. 4p.,add.,end. Seal. Concerning geology. Refers to Murchison.

Scrope, George Poulett, 1797-1876 May 18, 1833 9x7-1/4
 Letter to [Sir] C[harles] Lyell, [bart.],
 London;

A.L.S. 3p.and add.,end. Concerning geology.

Mantell, Gideon Algernon, 1790-1852 1834 9x7-1/4
 Concerning certain fossils;

A.D.S.with initials. 1p.and end.by Lyell.

Agassiz, Louis, 1807-1873 March 5, 1834 10x8
 Letter to Charles Lyell, London;

Neuchatel, A.L.S. 3p. and add. In French. (see Lyell album, C) Natural history. Friendly letter.
 Formerly B D25.L1.

Horsburgh, Joseph, 1782-1836 March 10, 1834 10x8
 Letter to C[harles] Lyell, Bloomsbury;

East India House, A.L.S. 1p. and add., end. (see Lyell album, C) Floods. Formerly B D25.L1.

Forchhammer, G. (Georg), 1794-1865 Aug. 22, 1834 10x8-1/2
 Letter to Sir Charles Lyell, London;

Copenhagen, A.L.S. 3p. and add., end. (see Lyell album, C) Geology. Formerly B D25.L1.

Owen, Richard, 1804-1892 Nov. 3, 1834 8" x 10"
 Letter to Cha[rle]s Lyell;

Symonds Inn, A.L.S. 4p. Comments on Von Buch's monograph particularly the portion devoted to
 the organization of the Terebratule. Mentions Cuvier.

Mantell, Gideon Algernon, 1790-1852 Dec. 12, 1834 9x7-1/4
 Letter to [Sir] Charles Lyell, [bart.],
 Bloomsbury;

A.L.S. 4p.,add.,end. Concerning fossils and geology. Refers to Sedgwick, Silliman, and Buckland.

Non-Carroll Darwin Materials

De La Beche, Henry T. (Henry Thomas), 1796-1855	Jan. 24, 1835	9x7-1/2
Letter to [Sir Charles] Lyell, [bart.], London, Devon, A.L.S. 4p.and add.,end. Concerning geology. Refers to Sedgwick.		
Lyell, Charles, Sir, 1797-1875	March 5, 1835	9-3/4x8
Letter to [Sir] Charles Lyell, [bart.], London; A.L.S. 4p.and add.,end. Concerning tides and the ocean depths. Refers to LaPlace. Printed: Todhunter, Wm.Whewell...; v.1,206-209.		
Fleming, John, 1785-1857	June 2, 1835	7 1/2" x 9"
Letter to Charles Lyell; Aberdeen, A.L.S. 4p.[i.e.7p.], add., end. Seal. Personal matters. Crag fossils; foraminifera and corals mostly identified with German ocean species.		
Whewell, William, 1794-1866	Dec. 2, 1835	9x7-1/4, 10x8
Letter to [Sir] Charles Lyell, [bart.]; A.L.S. 4p.,add. ----Copy. End.by Lyell. Concerning Wrangel and ice in Siberia.		
Herschel, John F. W. (John Frederick William), Sir, 1792-1871	Feb. 20, 1836	8" x 10"
Letter to [Sir Charles Lyell]; Feldhausen, A.L.S. 12p. Diagrams. Very detailed comments on the new ed. of Lyell's Geology which he is reading for the third time. Hopes to finish his astronomical work in about a year. Printed in part: Babbage, Charles. The Ninth Bridgewater Treatise, pp.225-236. W.F.Cannon: "The Impact of Uniformitarianism", Proceedings, vol.105, 301 ff.		
Murchison, Roderick Impey, Sir, 1792-1871	Sept. 22 (?), 1836	7 1/4" x 8 3/4"
Letter to Charles Lyell; Cambridge, A.L.S. 4p.,add., end. Seal.		

Non-Carroll Darwin Materials

Fleming, John, 1785-1857	Oct. 14, 1836	7 1/2" x 9"
Letter to Charles Lyell;		
Aberdeen, A.L.S. 4p., add., end. Numbers of Philosophical Transactions wanted for college library. Comments on Lyell's paper on the changes of level in the Baltic; Herschel's theory of elevation College affairs.		
Lyell, Charles, Sir, 1797-1875	Oct. 23, 1836	9-3/4x4-3/4
Letter to [Sir] Charles Lyell, [bart.] London;		
A.L.S. 2p.and add. Friendly letter. Refers to Sedgwick and Murchison.		
Owen, Richard, 1804-1892.	Jan. 23, 1837	9-6/8x7-7/8
Letter to [Sir] Charles Lyell;		
ALS. 2p.add.end. Concerns the bones of extinct mammalia collected by Darwin in South America (Patagonia).		
De La Beche, Henry T. (Henry Thomas), 1796-1855	Feb. 5, 1837	12-1/2x8
Letter to [Sir] Charles Lyell, [bart.], London;		
Falmouth, A.L.S. 5p.and add.,end. Mutilated. Dispute on geological data and theories Refers to Sedgwick and Murchison.		
De La Beche, Henry T. (Henry Thomas), 1796-1855	Feb. 22, 1837	9x7-1/4
Letter to [Sir] Charles Lyell, [bart.];		
A.L.S. 3p.and add.,end. Concerning geology. Refers to Murchison and Sedgwick.		
Owen, Richard, 1804-1892	March 13, 1837	7-1/2x4-1/2
Letter to Charles Lyell, Bloomsbury;		
A.L.S. 2p. and add. (see Lyell album, C) Congratulations on his work. Formerly B D25.L1.		
Herschel, John F. W. (John Frederick William), Sir, 1792-1871	June 12, 1837	8" x 10"

Non-Carroll Darwin Materials

Letter to Cha[rle]s Lyell;

Feldhausen, A.L.S.5p. and add., end. Seal. Babbage's paper; is not guilty of appropriating his ideas relative to the reaction of surface and interior of the globe. Rediscovery of the sixth satellite of Saturn. Printed (except for opening paragraph); Charles Babbage, The Ninth Bridgewater Treatise, pp. 241-247. (and last paragraph? In part, W.F.Cannon: "The Impact of Uniformitarianism", Proceedings, vol.105, 301ff. 4 Oct.1966, Dr. Cannon says that the letter is complete, based on examination of Herschel's carbon copy in the Royal Society Library.

Darwin, Charles, 1809-1882.

June 15, 1837

Letter to [William] Buckland;

Thursday A.L.S. 3p.,end. and add. Describes marine saurians of Galapagos & tortoises; Galapagos "a paradise for the reptile order." CALENDER # 359/ LOG#815

Darwin, Charles, 1809-1882

[1837], August 2

Letter to Mr. Frederick William Schobert

Mantell, Gideon Algernon, 1790-1852

Jan. 22, 1838

9x7-1/2

Letter to [Sir] Charles Lyell, [bart.];

A.L.S. 2p.and add.,end. Sends sketch of a fossil.

Darwin, Charles, 1809-1882.

Jan. 23, 1838

Letter to [John Stevens] Henslow,
Cambridge;

Xerox of A.L.S. 4p.,add. Sends volcanic rock to Miller. Should make volume 2 of Beagle voyage geology. Geology. From original in Historical Society of Penna.

Owen, Richard, 1804-1892

Jan. 30, 1838

4 1/2" x 7"

Letter to Cha[rle]s Lyell;

R. College of Surgeons, A.L.S. 2p. and add., end. Seal. Comparison of Dr. Buchland's large bone with that of Bottle-nose whale and others and thinks it is not cetaceous. Sends copy of new edition of Hunter's Animal Oeconomy.

Mantell, Gideon Algernon, 1790-1852

March, 1838

8-1/4x6-1/2

Letter to [Sir] Charles Lyell, [bart.];

Non-Carroll Darwin Materials

A.L.S. 2p.and add.,end. Concerning fossils.

Darwin, Charles, 1809-1882 [15 May, 1838], Tuesday
Letter to William Lonsdale morning

Darwin, Charles, 1809-1882 [June, 1838] Monday
Letter to William Lonsdale morning

Lindley, John, 1799-1865 July 10, 1838 10x8
Letter to Charles Lyell, Bloomsbury;

A.L.S. 2p. and add.,end. (see Lyell album.C) Botany. Formerly B D25.L1.

Darwin, Charles,1809-1882. Aug. 9, [1838] 7 1/4" x 9"
Letter to [Sir Charles] Lyell;

36 Gt. Marlbro St., A.L.S. 11p. and end. Printed almost entirely: Life and letters of C. Darwin, v.1,291. Formerly B D25.L no. 10

Darwin, Charles,1809-1882. [Nov.] 13, [1838] 9x7-1/2
Letter to Cha[rle]s Lyell, Bloomsbury;

A.L.S. 3p. and add., end. Tells of his engagement to Emma Wedgwood. B D25.L no. 12

Other Descriptive Information

See: (Lyell album, C)

Fleming, John, 1785-1857 Nov. 16, 1838 7 1/2" x 9"
Letter to Charles Lyell;

Aberdeen, A.L.S. 4p., add., end. Comments on his volume [Elements of Geology ?]. Yellow sandstone. College affairs.

Murchison, Roderick Impey, Sir, 1838 9x7-1/4
1792-1871
Letter to [Sir Charles] Lyell, [bart.];

A.L.S.with initials. 4p.and end. on fragment. Concerning geology. Concerning volcanoes. Refers to Sedgwick.

Darwin, Charles, 1809-1882 [8 March, 1839] Friday

Non-Carroll Darwin Materials

Letter to William Lonsdale

Owen, Richard, 1804-1892

April 29, 1839

4 1/2" x 7"

Letter to Charles Lyell;

Coll. Chir. A.L.S. 3p. and add., end. Identifies teeth as belonging to Mastodon ----. Field mouse. Will review small fossils upon completion of lectures.

Fitton, William Henry, 1780-1861

May 20, 1839

7-1/4x4-1/2

Letter to [Sir] Charles Lyell, [bart.];

Norwood, A.L.S. 4p.and add.,end. Concerning geology.

**Strickland, H. E. (Hugh Edwin),
1811-1853**

June 12, 1839

9x7-1/2

Letter to Charles Lyell, London;

Cracombe House, A.L.S. 3p. and add., end. (see Lyell album, C) Natural history. Formerly B D25.L1.

Darwin, Charles, 1809-1882.

16 Aug., 1839

Letter to _____;

A.L.S. 4p. Adverse opinion on a geology book.

Owen, Richard, 1804-1892

Aug. 29, [1839 ??]

4" x 5"

Letter to Cha[rle]s Lyell;

Coll. Chir. A.L.S. 4p. Comments on specimens from beneath the last Auvergne lava stream. Illness of family.

Darwin, Charles, 1809-1882

[1839] 8 August

Letter to Captain William Henry Smyth

Darwin, Charles, 1809-1882

16 August, 1839

Letter to

**Strickland, H. E. (Hugh Edwin),
1811-1853**

Aug. 31, 1839

9x7-1/2

Letter to Charles Lyell;

Non-Carroll Darwin Materials

Birmingham, A.L.S. 2p. and add., end. (see Lyell album, C) Geology. Formerly B D25.L1.

Owen, Richard, 1804-1892 Oct. 4, 1839 8" x 12 1/2"

Letter to [Sir Charles] Lyell;

R. College of Surgeons, A.L.S. 2p. Information on the mammiferous fossils of the Newbourne locality. Will send notes on the London clay fossils in a day or two.

Curtis, John, 1791-1862 Nov. 8, 1839 8x5

Letter to Charles Lyell;

A.L.S. 2p. and add., end. (see Lyell album, C) Fossil insects. Formerly B D25.L1.

Darwin, Charles, 1809-1882 Friday-22nd [Nov., 1839]

Letter to W.H. Miller

Curtis, John, 1791-1862 Nov. 29, 1839 7-1/2x4-1/2

Letter to Charles Lyell;

A.L.S. 2p. and add., end. (see Lyell album, C) Natural history. Formerly B D25.L1.

Owen, Richard, 1804-1892 Nov. 29, 1839 7-1/2x4-1/2

Letter to Charles Lyell;

A.L.S. 2p. and add., end. (see Lyell album, C) Concerning a letter by Charlesworth. Formerly B D25.L1.

Darwin, Charles, 1809-1882. 7 Jan., [1840]

Letter to [Basil Hall];

Tuesday A.L.S. 4p.,end. Concerning location of sulphur islands in Pacific.

Conybeare, William Daniel, 1787-1857 Jan. 22, 1840 9x7-1/2

Letter to [Sir] C[harles] Lyell, [bart.],
London;

A.L.S. 4p.,add.,end. Concerning geology.

Darwin, Charles, 1809-1882. [Feb. 6, 1840]

Non-Carroll Darwin Materials

Letter to ----; [Smith, Elder & Co.
&Folthorp, Mr.]

A.L.S. 1p. Will send manuscript but does not wish it sent out: "I wish to know the cost per thousand words - I providing paper."

Conybeare, William Daniel, 1787-1857 May 8, 1840 9x7-1/4

Letter to [Sir] Ch[arle]s Lyell, [bart.],
London;

A.L.S.with initials. 2p.and add.,end. Concerning geology. Refers to Buckland With this is 2p.of a publication containing Conybeare's description of a geological event

Fleming, John, 1785-1857 May 23, 1840 8" x 10"

Letter to Charles Lyell;

Aberdeen, A.L.S. 4p. Shells; ice-drift. Sends box of specimens. College affairs. Visit of Lyell's brother.

Whewell, William, 1794-1866 Oct. 5, 1840 9x7-1/2

Letter to [Sir] Charles Lyell, [bart.];

A.L.S. 4p.and add. Seal. Friendly letter. Refers to Murchison.

Conybeare, William Daniel, 1787-1857 Feb. 7, 1841 8-3/4x7-1/4

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 19p.and end. Concerning geology. Refers to Buckland and Agassiz.

Humboldt, Alexander von, 1769-1859 [1841? April 20] Sunday

A[lexander] von Humboldt to [Alexander
Mendellsohn]

Other Descriptive Information

Brief message in German.

Owen, Richard, 1804-1892 May 13, 1841 7 1/2" x 9

Letter to Cha[rle]s Lyell; 1/2"

College of Surgeons, A.L.S. 2p. Identification of Labyrinthodon (?).

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882.	6 July, 1841	7 1/4" x 9"
Letter to Charles Lyell;		
Shrewsbury, Tuesday A.L.S. 7p. and add., end. Seal Coral reefs. Printed almost entirely: More letters of C. Darwin, v.2,193. B D25.L no. 24		
Murchison, Roderick Impey, Sir, 1792-1871	Dec. 1, 1841	9x7-1/4
Letter to [Sir] Charles Lyell, [bart.], Philadelphia [Charleston];		
A.L.S. 4p.add.,end. Seal. Concerning geology. Refers to Owen and Sedgwick.		
Darwin, Charles, 1809-1882.	Jan. 13, [1842?.]	
Letter to [Rev. Leonard] Jenyns;		
[London], Thursday A.L.S. 4p. Praise for Jenyns' intro.to Zoology of the Voyage of the Beagle (Pt.4,Fish). Advice concerning printing of the book. Mentions Hawkins.		
Darwin, Charles, 1809-1882.	19 Jan., [1842-1845]	
Letter to "Dear Sir;" [Charles Hamilton Smith]		
A.L.S. 4p. Concerning ruins on Caroline Islands. Mentions Beagle, subsidence, Admiral Lutke.		
Darwin, Charles, 1809-1882	[5 May, 1842] Thursday	
Letter to Mrs. Herbert		
Darwin, Charles, 1809-1882	[ca. 1842] [18-28 June]	
Letter to Dr. Tritten		
Bell, Lady Marion Shaw	1842	8x6
Inscription on the tombstone of Sir Charles Bell;		
[ca.?]. D. 2p., end. (see Lyell album,C), Formerly B D25.L1.		
Darwin, Charles, 1809-1882.	January 14, [1843]	
Letter to Messrs. Smith & Elder;		

Non-Carroll Darwin Materials

Down, near Bromley, Kent, Saturday, A.L.S. 3p.and add. Wishes account. Mr. Bell's illness delays last number of Reptiles; glad Mr. Hines is joining in publication. Wants sales report for Coral reefs volume.

Darwin, Charles, 1809-1882 [22 January, 1843] Sunday

Letter to Professor John Stevens Henslow morning

Wilson, William, 1799-1871 Feb. 23, 1843 10x8

Letter to [Charles Lyell];

Oxford, A.L.S. 2p. (see Lyell album, C) Friendly letter. Botany Mentions Hooker. Formerly B D25.L1.

Broderip, William John, 1789-1859 March 31, 1843 7-1/2x4-1/2

Letter to [Charles] Lyell;

Gray's Inn, A.L.S. 3p. (see Lyell album, C) Congratulates him on lecture. Formerly B D25.L1.

Darwin, Charles, 1809-1882. July 4, 1843

Letter to H[enry] Colburn;

Down, near Bromley, Kent, A.L.S. 3p. Wants plates from his Journals of Researches for Dr. Dieffenbach and a German edition/translation of this work.

Darwin, Charles, 1809-1882. July 19, [1843]

Letter to Er[nest] Dieffenbach, Berlin;

Down, Xerox of A.L.S. 2p.and add.,end. Colburn will lend copperplate of map and woodcuts. Is busy correcting proofs. From original in Historical Society of Penna.

Darwin, Charles, 1809-1882. 26 July, 1843

Letter to G[eorge] R[obert] Waterhouse,
London;

Down, Bromley, Kent, Xerox of A.L.S. 5p.add.end. [Original at Cambridge Univ. Lib.] Concerns classification of species, Darwin's concept of "natural classification," Waterhouse's arguments on same. Mentions Linnacus,Birds,Mammals.

Darwin, Charles, 1809-1882 1843 July 31

Non-Carroll Darwin Materials

Letter to G[eorge] R[obert] Waterhouse

Darwin says he has no objection to uniting Monotremata and other marsupials, but would object to doing so solely on the ground that Monotremata consists of only two species.

Fleming, John, 1785-1857

Aug. 26, 1843

7x4-1/2

Letter to Charles Lyell, Kerriemuir;

A.L.S. 4p.and add., end. (see Lyell album, C) Geology. Friendly letter. Mentions Agassiz. Formerly B D25.L1.

Herschel, John F. W. (John Frederick William), Sir, 1792-1871

Sept. 17, 1843

7 1/4" x 9"

Letter to [Sir Charles Lyell;

Collingwood, A.L.S. 3p. Desires information about Mr. [G.R.] Waterhouse who is desirous of getting a position at the British museum.

Fleming, John, 1785-1857

Oct. 26, 1843

5" x 7 3/4"

Letter to Charles Lyell;

Aberdeen, A.L.S. 4p. il. Disagrees with Lyell's opinion of sandstone deposits (??) at Stonehaven.

Darwin, Charles, 1809-1882

10 December [1843-46;

Letter to Edward Blyth

1855-61]

Darwin, Charles, 1809-1882.

Jan. 7, [1844]

Letter to "Dear Sir;"

Down, Bromley, Kent, A.L.S. 1p. Asks to borrow Memoires Presentes par Divers Savan a l'Acad. R. des Sciences: Paris.

Darwin, Charles, 1809-1882.

7 July, [1844]

Letter to [Charles Spence Bate];

Down, Bromley, Kent, A.L.S. 4p. To cite Bate's discoveries and use his drawings in an upcoming work.

Darwin, Charles, 1809-1882

[1844] August 9

Non-Carroll Darwin Materials

Letter to A[dolph von] Morlot (Morlot,
C.A.)

Darwin declines to become involved in the work necessary to publish Morlot's journal, to the fragile state of his health, which limits his time and energies. Although he recommends possible publishers in England for the journal, he expresses skepticism about Morlot's glacier theory, emphasizing instead the role of floating ice.

Darwin, Charles, 1809-1882

12 August, [1844]

Letter to H[enry] Denny

Grey-Egerton, Philip de Malpas, Sir, 10th Dec. 16, 1844
bart., 1806-1881

7-1/4x4-1/2

Letter to [Sir] Charles Lyell, [bart.];

A.L.S. 4p.and add.,end. Concerning fossil fishes. Refers to Agassiz.

Grey-Egerton, Philip de Malpas, Sir, 10th Dec. 18, [1844]
bart., 1806-1881

7-1/4x4-1/2

Letter to [Sir] C[harles] Lyell, [bart.];

A.L.S. 4p.and add.,end. Concerning fossil fishes.

Grey-Egerton, Philip de Malpas, Sir, 10th Dec. 28, [1844?]
bart., 1806-1881

7-1/4x4-1/2

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 4p. Concerning fossil fishes. Refers to Agassiz.

Darwin, Charles, 1809-1882

January 19, [1845]

[Letter to Charles Hamilton Smith]

Darwin, Charles, 1809-1882

16 May, [1845]

Letter to [Professor John Stevens] Henslow

Agassiz, Louis, 1807-1873

Sept. 27, 1845

10-1/2x8-1/2

Letter to Charles Lyell, Boston;

Non-Carroll Darwin Materials

Neuchatel, A.L.S. 3p. and add., end. In French. (see Lyell album, C) Natural history. Friendly letter.
Formerly B D25.L1.

Darwin, Charles, 1809-1882 Tuesday [1 December, 1845]
Letter to G[eorge] B[rettingham] Sowerby

Darwin, Charles, 1809-1882. 9 Jan., [1846-1855]
Letter to "My dear Sir;" [G.W. Sowerby?]

A.L.S. 1p.and add. Thanks for note & drawing returned. Has "added some more text."

Darwin, Charles, 1809-1882. 21 Jan., [1846-1855]
Letter to "My dear Sir;"

A.L.S. 4p. Instructions for plates & engravings.

Darwin, Charles, 1809-1882. 28 Jan., [1846-1855]
Letter to "My dear Sir;"

A.L.S. 3p. Concerning cirripedia, their range and study; pleads for specimens; refers to Lyell.

Darwin, Charles, 1809-1882. 10 Feb., [1846-1855]
Letter to "My dear Sir;"

A.L.S. 4p. Further instructions to engraver.

Darwin, Charles, 1809-1882 February 12 [1846-55]
Letter to [W.C. Williamson?]

Darwin, Charles, 1809-1882. 13 Feb., [1846-1855]
Letter to "My dear Sir;"

A.L.S. 2p.,2 post scripta. Instructions concerning engravings, specimens.

Darwin, Charles, 1809-1882 Tuesday, March 31 [1846]
Letter to G[eorge] B[rettingham] Sowerby

Darwin, Charles, 1809-1882. 4 May, [1846-1855]
Letter to "My dear Sir;"

Non-Carroll Darwin Materials

A.L.S. 2p. Instructions for engravings. Mentions Paleontographical Society.

Darwin, Charles, 1809-1882. May 15, 1846

Letter to [Sir Richard] Owen;

Down, Bromley, Kent, Wednesday [ca.] Xerox of A.L.S. 4p. Invitation to visit. Presented by Michael H. McHugh; May 1976.

Darwin, Charles, 1809-1882. 9 June, [1846-1855]

Letter to "My dear Sir;"

Saturday, A.L.S. 4p. Thanks and instructions to engraver.

Darwin, Charles, 1809-1882. 27 Aug, [1846-1855]

Letter to "My dear Sir;"

A.L.S. 2p. Instructions to engraver.

Darwin, Charles, 1809-1882. 10 Sept., [1846-1855]

Letter to "My dear Sir;"

A.L.S. 4p. Further instructions to engraver. Mentions Paleontographical Society, Bowerbank.

Darwin, Charles, 1809-1882. 12 Sept., [1846-1855]

Letter to "My dear Sir;"

A.L.S. 4p. Concerning woodcuts, engravings, proofs of a work; mentions Bowerbank.

Darwin, Charles, 1809-1882. 23 Sept., [1846-1855]

Letter to "My dear Sir;"

A.L.S. 4p. Concerning woodcuts, plates and proofs for a forthcoming work.

Darwin, Charles, 1809-1882. 28 Sept., [1846-1855]

Letter to "My dear Sir;"

A.L.S. 4p., post-script. Concerning advances to Sowerby for printing plates; correcting "200th page of my Volume." Mentions Royal Society.

Darwin, Charles, 1809-1882. Oct. 3, 1846 8" x 10"

Letter to C[harles] Lyell

Non-Carroll Darwin Materials

A.L.S. 3p. and add., end. Printed: More letters of C. Darwin, v.2,120. B D25.L no. 50

Forbes, Edward, 1815-1854

Oct. 18, 1846

9x7

Letter to [Charles] Lyell;

North Wales, A.L.S. 6p. (see Lyell album,C) Friendly letter on geology and botany. Formerly B D25.L1. Printed: Life...of Sir Charles Lyell, v.2, 110.

Forbes, Edward, 1815-1854

Oct. 18, 1846

Letter to Charles Lyell [copy]

Mantell, Gideon Algernon, 1790-1852

Nov. 10, 1846

8-3/4x7-1/4

Letter to [Sir Charles Lyell, bart.];

A.L.S. 3p.and end. Mutilated. Concerning fossils. Refers to the royal society.

Darwin, Charles, 1809-1882.

23 Dec., [1846-1855]

Letter to [Richard] Owen;

A.L.S. 4p. Story near shipwreck from Beagle days. Mentions Fitzroy, S.V. Wood. Also, missing fossil specimens.

Darwin, Charles, 1809-1882.

1846

Letter to "My dear Sir;"

Down, Farnborough, Kent, ca. Thursday. A.L.S. 3p. Asks address of a particular artist, for drawing minute articulata, corallines, & mollusca.

Darwin, Charles, 1809-1882

[1846-1855], Sunday

Letter to "My dear Sir,"

Darwin thanks him for the invitation to breakfast and says that he wishes to come on Wednesday about 9 am.

**Lyell, Sir Charles, 1797-1875. Darwin,
Charles, 1809-1882.**

1847-1849

8"x10"

Letter to [Sir Charles] Lyell;

Non-Carroll Darwin Materials

Down, Farnborough, Kent, [ca. 1847-1849], Wednesday, Copy of L. 8p. and end. Printed: More letters of C. Darwin, v.2,181. Formerly B D25.L no. 68

Darwin, Charles, 1809-1882. [] 8, 1847-1849

Letter to [Sir Charles] Lyell; Dup?

Down, Farnborough, Kent, [ca. 1847-1849], Wednesday, Copy of L. 8p. and end. Printed: More letters of C. Darwin, v.2,181. Formerly B D25.L no. 68

Lubbock, Lady Harriet Hothem, [1847-1865] 4 1/2" x 7"
1806-1873

Letter to Lady Lubbock;

Wednesday eve., Thursday mg. A.L.S. 1p. Relates to a lost volume. Message for Sir John [Lubbock]. Formerly B D25.15 no. 70.

Darwin, Charles,1809-1882. Jan. 20, 1847 4 1/2" x 7 1/4

Letter to C[harles] Lyell

[ca.] A.L.S. 3p. and add., end. Cleavage and foliation. B D25.L no. 57

Darwin, Charles,1809-1882. Jan. 24, 1847 7-1/2x 4-1/2

Letter to [Sir Charles] Lyell;

Down, Sunday, A.L.S. 5p. Coral reefs and islands. Mentions Hooker. Formerly B D25.L no. 58

Forbes, Edward, 1815-1854 March 1, 1847 4 1/2" x 7"

Letter to [Sir Charles] Lyell;

Monday A.L.S. 4p. Fauna and flora of Britain. Various hypotheses on the distribution of plants and animals.

Darwin, Charles,1809-1882. March 7, 1847 8" x 9 3/4"

Letter to C[harles] Lyell;

Down, Farnborough, Kent, Sunday. A.L.S. 3p. and add., end. Glen Roy. Lyell's new edition of Principles. Pleased with sale of his work on South America. B D25.L no. 59

Forbes, Edward, 1815-1854 March 13, 1847 4 1/2" x 7"

Letter to Charles Lyell;

Non-Carroll Darwin Materials

Dublin, A.L.S. 4p. and env., end. Has examined specimens from the Rhone Hill bed, which Oldham says are Permian. Certain facts in Lyell's Faxoe (?) paper support his views of the distribution of cretaceous genera.

Darwin, Charles, 1809-1882

March 21, [1847]

Letter to B. Studer

Darwin says he instructed his publisher to send [Bernhard] Studer a copy of his small book on South America, although he fears that he will find little of use in it, except a brief discussion on cleavage and foliation. He said that he was also glad to hear about Studer's article that appeared in the Bulletin, and promised to consult it. Darwin recommends that Studer read Daniel Sharpe's paper "On slaty cleavage" in the Journal of the Geological Society of London 3(1847): 74-105. Darwin thanks Studer for his offer of his book [Lehrbuch der physikalischen Geographie und Geologie, (1844-47)], but says his German is poor, and that Studer ought to send it only if it is short and inexpensive.

Henfrey, Arthur, 1819-1859

April 20, 1847

7x4-1/2

Letter to T[homas] Henry;

Brixton, A.L.S. 1p. (see Lyell album, C) Charcoal. Formerly B D25.L1.

Humboldt, Alexander von, 1769-1859

April 27, 1847

9x5-1/2

Letter to [Sir Charles Lyell, bart.];

Potsdam, A.L.S. 3p.and add. In French. Seal. Friendly letter. Concerning geology. Refers to Buch and Darwin.

Darwin, Charles, 1809-1882

[1847] August 13

Letter to Prof. B. Studer

Invites Studer to visit. Advises him to call on Daniel Sharpe. Suggests that he see the work of the Ordnance Survey in Wales. Offers to lend him Murchison's Silurian System (1839).

Darwin, Charles, 1809-1882.

October, 1847

4-1/2x7

Letter to [Sir Charles] Lyell;

(ca.) Saturday. A.L.S. 4p. First portion printed: Life and letters of C. Darwin, v.1, 328n. B D25.L no. 65

Darwin, Charles, 1809-1882.

Oct. 11, 1847 ??

4 1/2" x 7"

Non-Carroll Darwin Materials

Letter to [Sir Charles] Lyell;

Monday A.L.S. 4p. and enc. - 1p. Final result of the comparison of the Lochaber and Galashiels terraces; Glen Roy. B D25.L no. 64

Fleming, John, 1785-1857

Oct. 13, 1847

5" x 8"

Letter to Charles Lyell;

Edinburgh, A.L.S. 4p. and end. Stronsa (?) animal. Sends a shell from west coast of America for identification. College affairs. Desires good geological map of England and Scotland.

Owen, Richard, 1804-1892

Nov. 23, 1847

7 1/4" x 9"

Letter to Charles Lyell;

College of Surgeons, A.L.S. 2p. and add., end. Fossil bones from Newberne, N.C., collected by Mr. Nuttal. Wyman's Casteroides.

Darwin, Charles, 1809-1882

January 28 [1848]

Letter to James Smith, Esq.

Nuttall, Thomas, 1786-1859

April 19, 1848

7-1/2x4-1/2

Letter to [Charles] Lyell[1];

Lancashire, A.L.S. 3p. and add. (see Lyell album, C) Forwards package damaged by customs. Formerly B D25.L1.

Henfrey, Arthur, 1819-1859

May 16, 1848

7-1/2x4-1/2

Letter to E[dward] Forbes;

Brixton, A.L.S. 2p. (see Lyell album, C) Concerning wood fragments found in mastadons. Formerly B D25.L1.

Darwin, Charles, 1809-1882.

June, 1848

4 1/2" x 7"

Letter to [Sir Charles] Lyell;

Down...Wednesday A.L.S. 3p. Printed: Life and letters of C. Darwin, v.1,363. B D25.L no. 75

Darwin, Charles, 1809-1882.

June 16, 1848

4 1/2" x 7"

Letter to [Sir] C[harles] Lyell;

Non-Carroll Darwin Materials

Down, Farnborough. Kent, Friday A.L.S. 8p. and env. Comments on Chambers' book in re Glen Roy.
Printed almost entirely: Life and letters of C. Darwin, v.1,p.362. B D25.L no. 73

Henslow, J. S. (John Stevens), 1796-1861 July 12, 1848 9x7-1/2

Letter to C[harles] Lyell, London;

Suffolk, A.L.S. 2p. and.,end. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Henslow, J. S. (John Stevens), 1796-1861 July 18, 1848 7x4

Letter to Cha[rle]s Lyell, London;

Suffolk, A.L.S. 3p. and add., end. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Mantell, Gideon Algernon, 1790-1852 Nov., 1848 7x4-1/4

Letter to [Sir] Charles Lyell, [bart.];

A.L.S. 4p.and add.,end. Concerning fossils.

Fleming, John, 1785-1857 Nov. 17, 1848 5" x 7 1/2"

Letter to Sir Charles Lyell;

Edinburgh, A.L.S. 4p. Congratulations on his being knighted. The Orkney animal. Andrew's work in India.

Goodsir, John, 1814-1867 Nov. 17, 1848 7-1/2x4-1/2

Letter to Dr. [John] Fleming;

A.L.S. 3p. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Hooker, William Jackson, Sir, 1785-1865 Feb. 15, 1849 7x4

Letter to [Mrs. Katherine M.H. Lyell];

Kew, A.L.S. 6p. (see Lyell album,C) Friendly letter. Formerly B D25.L1.

Hooker, William Jackson, Sir, 1785-1865 Feb. 28, 1849 7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

Kew, A.L.S. 3p. (see Lyell album c) Friendly letter. Formerly B D25.L1.

Owen, Richard, 1804-1892 May 5, 1849 7x4-1/2

Letter to Sir Charles [Lyell];

Non-Carroll Darwin Materials

A.L.S. 2p. (see Lyell album, C) Natural history. Formerly B D25.L1.

Owen, Richard, 1804-1892 June 2, 1849 4 1/2" x 7"

Letter to [Charles] Lyell;

R. Coll. of Surgeons, A.L.S. 3p. and end. Identifies the "sea-serpent" now in town as Gymnetrus Hawkenii.

Owen, Richard, 1804-1892 June 6, 1849 7-1/2x4-1/2

Letter to [Charles] Lyell;

A.L.S. 2p. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Owen, Richard, 1804-1892 June 20, 1849 4 1/2" x 7"

Letter to [Charles] Lyell;

Lymington, A.L.S. 7p. Qualifications for office of treasurer of the Royal Society. The "sea serpent."

Mantell, Gideon Algernon, 1790-1852 July 10, 1849 7-1/4x4-1/4

Letter to Sir Charles [Lyell, bart.];

Pimlico, A.L.S. 2p.and end. Friendly letter. Concerning geology.

Mantell, Gideon Algernon, 1790-1852 July 27, 1849 7-1/4x4-1/4

Letter to Sir Charles Lyell, [bart.];

Pimlico, A.L. 6p.and add.,end. Concerning fossils.

Darwin, Charles,1809-1882. Nov. 18, 1849 7 1/4" x 8

Letter to Sir Charles Lyell; 3/4"

Down, Sunday. A.L.S. 6p. and add., end. and drawing. Printed: More letters of C. Darwin, v.2,128. B D25.L no. 84

Darwin, Charles, 1809-1882 Tuesday [1849]

Letter to [Sir Richard] Owen

Tuesday A.L.S. 3p. Concerning comparative anatomy, the horse.

Darwin, Charles, 1809-1882 1850, 1881

Non-Carroll Darwin Materials

Letter to various people;

D. 9 items. Various sizes. (see Darwin papers. Table of contents available. Formerly B D25.132.

Darwin, Charles, 1809-1882

February 12, [1850]

Letter to J. de C. Sowerby

**Waterhouse, G. R. (George Robert),
1810-1888**

March 27, 1850

7x4-1/2

Letter to Sir Charles [Lyell];

British Museum, A.L.S. 2p. (see Lyell album, C) Natural history. Refers to Cuvier. Formerly B D25.L1.

Darwin, Charles, 1809-1882

Saturday [13 April, 1850]

Letter to J. de C. Sowerby

Darwin wants the Lepadidae drawings [for Fossil Cirripedia] to show lines of growth more distinct; he also wants no shading or similarity to lithography, which he thinks has harmed natural history.

Darwin, Charles, 1809-1882

May 4, [1850]

Letter to J. de C. Sowerby

Other Descriptive Information

2 pages.

The Palaeontological Society will give him only one plate for foreign species. Work should stop until he knows how many will fit.

Darwin, Charles, 1809-1882

Sunday [26 May or 2 June,

Letter to J. de C. Sowerby

1850]

Urges dispatch on illustrations [for Fossil Cirripedia]. Darwin's manuscript has been ready for some time and every thing depends on Sowerby.

Darwin, Charles, 1809-1882

9 June [1850]

Letter to J. de C. Sowerby

Darwin is pleased with the drawings of Fossil Cirripedia, but wants a few corrections, which he would like very soon.

Non-Carroll Darwin Materials

Forbes, Edward, 1815-1854	June 27, 1850	4 1/2" x 7"
Letter to Sir Charles [Lyell];		
Thursday A.L.S. 4p. Contains short note by Lyell (?). Citations to certain species of mollusca in his Fauna and flora survey.		
Forbes, Edward, 1815-1854	June 28, 1850	4 1/2" x 7"
Letter to Sir Charles Lyell;		
A.L.S. 3p. and env. Mollusca. Zero of animal life.		
Owen, Richard, 1804-1892	June 30, 1850	4 1/4" x 7"
Letter to [Charles] Lyell;		
R. College of Surgeons, A.L.S. 4p. Plans additional study on the teeth of the mammoth.		
Forbes, Edward, 1815-1854	July 5, [1850]	4 1/2" x 7"
Letter to Sir Charles [Lyell];		
A.L.S. 3p. and end. Echinoderms. Agassiz's statement.		
Owen, Richard, 1804-1892	July 11, 1850	4 1/4" x 7"
Letter to [Charles] Lyell;		
R. College of Surgeons, A.L.S. 4p. Sheppey chelonites and serpents.		
Darwin, Charles, 1809-1882.	25 July, [1850-1851]	
Letter to "My dear Sir;"		
A.L.S. 3p. Concerning English and Latin names in forthcoming work. Mentions Paleontographical Society.		
Murchison, Roderick Impey, Sir, 1792-1871	185[?] July 31	
Letter to [Sir Charles] Lyell		
2 pages. Discusses geological layers in Scotland [?].		
Darwin, Charles, 1809-1882.	6 Aug., [185-]	
Letter to [Prof. Rupert Jones];		

Non-Carroll Darwin Materials

A.L.S. 4p.,end. Concerning fossil names & beds. Darwin reports on the fossil cirripedia sent to him. Several are new, some are elegant.

Humboldt, Alexander von, 1769-1859 Aug. 11, 1850 9x5-1/2
Letter to ----;

A.L.S. 1p. In German. (see Lyell album, C) Concerning Sir Charles Lyell. Formerly B D25.L1.

Darwin, Charles, 1809-1882 August 27 [1850]
Letter J. de C. Sowerby

Darwin is returning one figure to Sowerby and sending two minute new species to be figured [for Fossil Cirripedia (Lepadidae)].

Darwin, Charles, 1809-1882. 1 Sept., [1850]
Letter to ---;

A.L.S. 4p.,end. Engravings of Scandinavian fossils.

Darwin, Charles, 1809-1882 September 10, [1850]
Letter J. de C. Sowerby

Darwin reports that the new specimens have shown him that he has two distinct species under one name [for Fossil Cirripedia (Lepadidae)].

Darwin, Charles, 1809-1882 September 12 [1850]
Letter J. de C. Sowerby

Darwin asks for two spelling corrections on the woodcut for for the Fossil Cirripedia (Lepadidae).

Darwin, Charles, 1809-1882 23 September [1850]
Letter J. de C. Sowerby

Darwin plans to come to London to examine the proofs of J. de C. Sowerby's plates.

Darwin, Charles, 1809-1882 28 September [1850]
Letter to James Scott Bowerbank

Mantell, Gideon Algernon, 1790-1852 Oct. 7, 1850 7x4-1/2
Letter to Sir Charles Lyell, [bart.];

Non-Carroll Darwin Materials

A.L.S. 7p.and add.,end. Concerning fossils. Concerning Owen on reptiles and dinosaurs.

Darwin, Charles, 1809-1882 18-22 October, 1850

Letter to Edwin Lankester

Darwin says that the manuscript [of Living Cirripedia, vol. 1] can be ready in two weeks, but he would like a decision of the Ray Society on the number of plates.

Grey-Egerton, Philip de Malpas, Sir, 10th bart., 1806-1881 Oct. 28, 1850 4-1/4x4-1/2

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 4p.and.add.,end. Concerning the geological age of certain fossil fishes.

Darwin, Charles, 1809-1882 7 November [1850]

Letter to Dr. Edwin Lankester

Darwin has sent G.B. Sowerby, Jr. some skeleton plates [for volume 1 of Living Cirripedia] which the Council [of the Ray Society] may also wish to see, along with G.B. Sowerby's finished drawings.

Darwin, Charles, 1809-1882 11 November [1850]

J. de C. Sowerby

Darwin likes the engravings of the Fossil Cirripedia (Lepadidae), but is distressed by J. de C. Sowerby's slow progress.

Mantell, Gideon Algernon, 1790-1852 [1850?]

Letter to Sir Charles Lyell

A.L. 3 pp. Incomplete. Concerning Owen's publication on fossil birds. Refers to Quekett.

Darwin, Charles, 1809-1882 Monday [1850]

Letter J. de C. Sowerby

Darwin, Charles, 1809-1882 Wednesday [1850]

Letter J. de C. Sowerby

Owen, Richard, 1804-1892 Jan. 2, 1851 4 1/2" x 7"

Letter to [Charles] Lyell;

Non-Carroll Darwin Materials

Royal College of Surgeons, A.L.S. 4p. Cetacean fossils from Kimmeridge and Oxford clays.

Martius, Karl Friedrich Philipp von, Jan. 20, 1851 11x8-1/2
1794-1868

Letter to Dr. Boott, London;

Munich, A.L.S. 2p. and add.,end. (see Lyell album, C) Asks for news of Mr. Wallich and Asa Gray.
 Formerly B D25.L1.

Darwin, Charles, 1809-1882 21 January, [1851]
 J. de C. Sowerby

Darwin says he is pleased with the plates [for Fossil Cirripedia (Lepadidae)]; most corrections need only a touch. He requests the revisions soon and asks how much he owes.

Darwin, Charles, 1809-1882 10 February, [1851]
 J. de C. Sowerby

Darwin likes the plates [for Fossil Cirripedia (Lepadidae)], except plate 1 {Scalpellum}, which calls for several revisions.

Darwin, Charles, 1809-1882 13 February [1851]
 J. de C. Sowerby

Darwin says that he appreciates J. de C. Sowerby's care. He is sending specimens, noting points to be observed. He adds that the figures which have been most troublesome are those of which drawings were made [for Fossil Cirripedia (Lepadidae)].

Darwin, Charles, 1809-1882. March 3, [1851]
 Letter to "My dear Sir;"

Down, Farnborough, Kent. A.L.S. 3p. Darwin has finished monograph on the fossil pedunculated cirripedes and is returning specimens.

Darwin, Charles, 1809-1882 11 March, [1851]
 Dr. Lankester

Darwin asks Lankester to request the Council [of the Ray Society] to permit him to have nine plates for [[for Vol. 1 of Living Cirripedia]] instead of eight, and a tenth plate, if Darwin pays for it himself.

Non-Carroll Darwin Materials

Fitton, William Henry, 1780-1861	April, 1851	7x4-1/2
Letter to Sir Charles [Lyell, bart.];		
A.L.S. 4p. Concerning geology.		
Murchison, Roderick Impey, Sir, 1792-1871	April 12, 1851	7-1/2x4-1/2
Letter to [Sir Charles] Lyell, [bart.];		
A.L.S. 4p. Concerning fossils and geology.		
Conybeare, William Daniel, 1787-1857	May 19, 1851	7-1/4x4-1/2
Letter to S[i]r C[harles] Lyell, [bart.];		
A.L.S. 4p. Concerning the geology of volcanoes.		
Owen, Richard, 1804-1892	June 6, 1851	4 1/2" x 7"
Letter to [Charles] Lyell;		
Royal College of Surgeons, A.L.S. 6p. Zoological nomenclature.		
Darwin, Charles, 1809-1882	19 July, [1851]	
Dr. Lankester		
Darwin discovers that he needs four woodcuts for the introduction [for Vol. 1 of Living Cirripedia], which calls for quick action. Darwins says he will send the whole manuscript buy the end of the month.		
Darwin, Charles, 1809-1882	22 July [1851]	
Dr. Lankester		
Darwin promises to bring the manuscript of [Vol. 1 of Living Cirripedia] on the last day of July, and the proofs of the eight plates already engraved will be sent soon. Darwin says he failed to get the materials for the one colored plate he wanted , so none will be in color. There will be ten altogether.		
Darwin, Charles, 1809-1882	26 July, [1850-51]	
Dr. Lankester		

Non-Carroll Darwin Materials

Darwin asks Lankester whether he should use both Latin and English descriptions of specific characters in [Vol. 1 of Living Cirripedia].

Darwin, Charles, 1809-1882 30 July, [1851]

Dr. Lankester

Darwin says he is sending the completed manuscript [Vol. 1 of Living Cirripedia] with instructions for the printers; reviews the numbers of the plates and woodcuts, and offers to pay for extras and for excess corrections, if they occur. He hopes that the Council of the Ray Society will print his second volume the following year.

Hooker, Joseph Dalton, Sir, 1817-1911 July 30, 1851 8-1/2x5-1/2

Letter to Mrs. [K.M.H.] Lyell;

Kew, A.L.S. 2p. and add. Enc. wanting. (see Lyell album, C) Friendly letter. Sends books and letters to friends in India. Formerly B D25.L1.

Darwin, Charles, 1809-1882 Saturday evening [2-9

Letter to Edwin Lankester August 1851]

Darwin wants his manuscript [of Living Cirripedia] taken to Adlard by a trustworthy person and wants to be told when and how it was done; leaves a note for Adlard that he wants proof on the 17th or 18th.

Conybeare, William Daniel, 1787-1857 Sept. 17, 1851 7x4-1/2

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 3p. and end. Concerning Sir George Grey. Friendly letter.

Darwin, Charles, 1809-1882 16 October [1851]

Letter to Dr. Sharpe

Thanks Dr. Sharpe for writing about his research on foliation and cleavage. Discusses the nature of slate and metamorphic schists.

Murchison, Roderick Impey, Sir, July 31, 185[?]1 7x4-1/2
1792-1871

Letter to [Sir Charles] Lyell, [bart.];

Non-Carroll Darwin Materials

A.L.S. 3p. Concerning geology.

Darwin, Charles, 1809-1882 Thursday [7 August 1851]

Charles Darwin to [Edwin Lankester]

Darwin writes that he returns home on Saturday and would like his servant to take his manuscript [of Living Cirripedia] to Adlard that morning.

Mantell, Gideon Algernon, 1790-1852 Oct. 23, 1851 7-1/4x4-1/2

Letter to Sir Charles Lyell, [bart.], London;

[received] A.L.S. 6p.and add.,end. Refers to Owen on fossil birds. Refers to Quekett.

Mantell, Gideon Algernon, 1790-1852 Nov. 4, 1851 7-1/4x4-1/2

Letter to Sir Charles Lyell, [bart.];

received A.L.S. 3p.and add.,end. Concerning fossils. Friendly letter.

Mantell, Gideon Algernon, 1790-1852 Dec. 25, [1851] 7-1/4x4-1/2

Letter to Sir Charles Lyell, [bart.], London;

A.L.S. 3p.and add.,end. Concerning sandstone and fossils. Refers to Murchison and Agassiz.

**Murchison, Roderick Impey, Sir,
1792-1871** Dec. 26, 1851 7-1/4x4-1/2

Letter to Sir Charles Lyell, [bart.], London;

Brighton, A.L.S. 4p.and add.,end. Concerning geology.

Mantell, Gideon Algernon, 1790-1852 Dec. 27, [1851] 7-1/4x4-1/2

Letter to Sir Charles Lyell, [bart.], London;

A.L.S. 3p.and add.,end. Concerning fossils. Refers to Owen and the geological society.

Mantell, Gideon Algernon, 1790-1852 Dec. 29, 1851 7-1/4x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 3p.and add.,end. Concerning fossils. Refers to Owen and Murchison.

Miller, Hugh, 1802-1856 Dec. 29, 1851 4 1/2" x 7"

Letter to Sir Charles Lyell;

Non-Carroll Darwin Materials

Edinburgh, A.L.S. 6p. and end. and enc. Sandstones at Meray (?), Elzin and elsewhere. Fossil reptiles; Stagonolepis.

Mantell, Gideon Algernon, 1790-1852 1851 7-1/4x4-1/2

Letter to Sir Charles [Lyell, bart.];

Monday [ca.]. A.L.S. 3p. Concerning fossils. Refers to Owen, Agassiz, and Gray.

Miller, Hugh, 1802-1856 Jan. 13, 1852 4 1/2" x 7"

Letter to Sir Charles Lyell;

Edinburgh, A.L.S. 4p. ad env., end. Stagonolepis. Old red sandstone fishes.

Hooker, Joseph Dalton, Sir, 1817-1911 Jan. 26, 1852 7-1/2x4-1/2

Letter to [Charles] Lyell;

Kew, A.L. 4p. (see Lyell album, C) Botany. Formerly B D25.L1.

Buch, Leopold von, Freiherr, 1774-1853 Feb. 16, 1852 8-1/2x5-1/4

Letter to Sir Charles Lyell, [bart.], London;

Berlin, A.L.S. 2p.and add.,end. Seal. Concerning fossils and geology.

Darwin, Charles, 1809-1882. 4 March, [1852-1853]

Letter to [Dr. Lankester];

A.L. 4p.end.incomplete. Concerning plates for a work. Requests of 'Council' [of Ray Society?]

Carlyle, T[homas,] 1795-1881. March 25, 1852

Letter to [Erasmus Alvey?] Darwin;

Chelsea, A.L.S. 1p. To attend a gathering at Mrs. Wedgwood's. "God save the Queen."

Mantell, Gideon Algernon, 1790-1852 April, 1852 7-1/4x4-1/2

Letter to Sir Charles [Lyell, bart.];

A.L.S. 3p.,end. Concerning fossils. Refers to Herschel.

Mantell, Gideon Algernon, 1790-1852 July, 1852 7-1/4x4-1/2

Letter to Sir Charles [Lyell, bart.];

Non-Carroll Darwin Materials

ca. A.L. 2p. Incomplete. Concerning fossils.

Mantell, Gideon Algernon, 1790-1852 July 8, 1852 7-1/4x4-1/2
Letter to Sir Charles Lyell, [bart.];

A.L.S. 3p.and add.,end. Concerning fossils. Refers to Agassiz

Mantell, Gideon Algernon, 1790-1852 July 9, 1852 7-1/4x4-1/2
Letter to Sir Charles Lyell, [bart.], London;

[received] A.L.S. 5p.and add.,end. Concerning frogs and fossils.

Mantell, Gideon Algernon, 1790-1852 July 28, 1852 7-1/4x4-1/2
Letter to Sir Charles Lyell, [bart.];

A.L.S. 3p.and add.,end. Concerning fossils. Refers to Owen and Agassiz.

Forbes, Edward, 1815-1854 Nov. 20, 1852 7x4-1/2
Letter to [Leonard] Horner;

Sandown, A.L.S. 4p., end. (see Lyell album, C) Geology. Friendly letter. Mentions Charles Lyell.
Formerly B D25.L1.

Mantell, Gideon Algernon, 1790-1852 Oct. 11, 1852? 7x4-1/2
Letter to Sir Charles Lyell, [bart.];

A.L.S. 3p.and add.,end. Concerning fossils. Refers to Owen.

Darwin, Charles, 1809-1882. Jan. 10, [1853]
Letter to Albany Hancock, Newcastle-on-Tyne;

Down, Farnborough, Kent, Xerox of A.L.S. 4p.,add.,end. Concerning work on natural history by each. From originals in Historical Society of Penna.

Fleming, John, 1785-1857 Jan. 10, 1853 8x5
Letter to Sir Charles [Lyell, bart.];

Leith, A.L. 4p. Inc. Welcomes his return [from America]. Moved recently to his present location.
Comments on Hugh Miller's paper Silurian fossils read before the Physical Society News of Andrew.

Non-Carroll Darwin Materials

Murchison, Roderick Impey, Sir, 1792-1871	Jan. 31, 1853	7x4-1/2
Letter to [Sir Charles] Lyell,[bart.]; A.L.S. 8p. Concerning geology. Refers to de Beauvois and Sedgwick.		
Darwin, Charles, 1809-1882	3 March, [1853]	
Letter J. de C. Sowerby		
Owen, Richard, 1804-1892	March 7, 1853	4 1/4" x 7"
Letter to Sir Charles Lyell; Coll. Chir., A.L.S. 3p. and env., end. Naming a species of tree-frog (?); suggests Dendrerpteton Lyelli.		
Darwin, Charles Galton, Sir, 1887-1962	1 April [1853?]	
Letter to [Charles Spence Bates?] Thanks for specimens of cirripedes attached to rocks, which show no boring.		
Fleming, John, 1785-1857	April 27, 1853	4 1/2" x 7 1/4"
Letter to Sir Charles Lyell; Leith, A.L. 4p. His explanation of Stickensida (?); disagrees with Sir Charles's. Has been examining the rocks in his neighborhood.		
Thomson, Thomas, 1817-1878	April 28, 1853	7x4-1/2
Letter to Sir Charles Lyell, Harley Street; Kew, A.L.S. 2p. and add., end. (see Lyell album, C) Concerning a buried temple. Formerly B D25.L1.		
Huxley, Thomas Henry, 1825-1895	April 29, 1853	4 1/4" x 7"
Letter to Sir Cha[rle]s Lyell; [London, A.L.S. 2p. and env. and enc. - 1p. Shells. Encloses note from Loven's article on development of a Cardium.		
Darwin, Charles, 1809-1882	[1853] July 7	

Non-Carroll Darwin Materials

Letter to Charles Spence Bate

Darwin says he will quote Charles Spence Bate on the discovery of Alcippe lampas. Hopes he continues to look for Verruca on limestone. Discusses the use of Bate's larva illustrations for Living Cirripedia.

Fleming, John, 1785-1857

Aug. 11, 1853

4 1/2" x 7"

Letter to Sir Charles Lyell;

Leith, A.L.S. 4p. Welcomes him upon his return from America. Flaws in rock. Polished surfaces.

Fleming, John, 1785-1857

Aug. 17, 1853

4 1/2" x 7"

Letter to Sir Charles [Lyell];

Leith, A.L.S. 8p. The question of flaws; sandstone. Asks for copy of Sir Henry De La Beche's (??) paper on theoretical geology.

Fleming, John, 1785-1857

Aug. 24, 1853

4 1/2" x 7"

Letter to Sir Charles [Lyell];

Leith, A.L.S. 4p. Acknowledges volumes on geology. Discussion on "what is coal?"

Forbes, Edward, 1815-1854

Aug. 27, 1853

4 1/2" x 7"

Letter to Sir Charles Lyell;

Kent, A.L.S. 5p. and env., end. His paper at the Geological society. Starts on trip to France that day or next.

Darwin, Charles, 1809-1882.

30 Aug., [1853]

Letter to [Charles Spence Bate];

A.L.S. 4p. Concerning crustac.

Forbes, Edward, 1815-1854

[Sept. 5], 1853

5" x 8"

Letter to Sir Charles [Lyell];

Paris, Sunday A.L.S. 4p. Nothing about the Paris basin tertiaries changes his views given in the Isle of Wight series. Further travels in France.

Scrope, George Poulett, 1797-1876

Oct. 30, 1853

7-1/4x4-1/2

Non-Carroll Darwin Materials

Letter to Sir Cha[rle]s Lyell, [bart.];

London, A.L.S. 15p.and add.,end. Concerning geology and volcanoes. Refers to von Buch.

Scrope, George Poulett, 1797-1876 Nov. 10, 1853 7x4-1/2

Letter to [Sir Charles] Lyell,[bart.];

A.L.S. 10p. Concerning volcano craters. Refers to von Buch.

Scrope, George Poulett, 1797-1876 Nov. 20, 1853 7x4-1/2

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 16p. Concerning volcanoes.

Scrope, George Poulett, 1797-1876 Nov. 23, 1853 7x4-1/2

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 4p. Concerning volcanoes.

Conybeare, William Daniel, 1787-1857 Nov. 30, 1853 7-1/4x4-1/2

Letter to Sir Charles [Lyell, bart.];

A.L.S. 4p. Concerning geology.

Forbes, Edward, 1815-1854 [1853] Sunday 4 1/2" x 7"

Letter to Sir Charles [Lyell];

Sunday A.L.S. 4P. Wide distribution of certain species of mollusca (?).

Huxley, Thomas Henry, 1825-1895 [1853] Saturday 4 1/2" x 7"

Letter to Sir Cha[rle]s Lyell

[ca.] A.L.S. 2p. Promises to send figure of the Gasteropod larvae.

Edgeworth, Michael Pakenham, 1812-1881 [1853] Saturday Evening 7-1/2x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

Saturday. A.L.S. 3p. and add. (see Lyell album, C) Botany. Formerly B D25.L1.

Huxley, Thomas Henry, 1825-1895 [ca. 1853] Saturday 4 1/2" x 4"

Non-Carroll Darwin Materials

Letter to Sir Cha[rle]s Lyell;

Saturday [ca.]. A.L.S. 3p. and enc. - 1p, and il. Larval state of Gasteropod (Doris). Encloses illustration.

Darwin, Charles, 1809-1882.

Feb. 18, [1854]

8" x 10"

Letter to Sir Charles Lyell;

Down...A.L.S. 4p., add. Printed: Life and letters of C. Darwin, c.1, 390. B D25.L no. 108

De La Beche, Henry T. (Henry Thomas), June 20, 1854

7-1/4x4-1/2

1796-1855

Letter to Sir Charles Lyell, [bart.];

A.L.S. 4p.and add.,end. Concerning geology.

Forbes, Edward, 1815-1854

June 26, 1854

4 1/2" x 7"

Letter to Sir Charles Lyell;

Edinburgh, A.L.S. 4p. and env., end. Spalacotherium. Hard work getting faily lectures into shape; lacks assistance. Has capital class of highly intelligent students. New edition of the manual.

Ehrenberg, Christian Gottfried,

July 29, 1854

8-1/2x5-1/2

1795-1876

Letter to ----;

A.L.S. 1p. In German. (see Lyell album, C) Concerning Horner. Formerly B D25.L1.

Forbes, Edward, 1815-1854

Sept. 17, 1854

5" x 8"

Letter to Sir Charles [Lyell];

A.L.S. 6p. and env., end. Has been geologising in the highlands. Ramsay on Permian ice-action. Foliation of metamorphic rocks (?).

Busk, George, 1807-1886

Oct. 31, 1854

7-1/4x4-1/2

Letter to [Sir Charles Lyell, bart.];

Greenwich, A.L.S. 6p.and end. Concerning mollusks.

Non-Carroll Darwin Materials

Murchison, Roderick Impey, Sir, Feb. 13, 1855 7x4-1/2,
1792-1871 3-1/2x4-1/2

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 10p. Concerning geology and sandstone. Refers to Sedgwick.

Darwin, Charles, 1809-1882. 28 Feb., [1855-1861]

Letter to "My dear Sir;"

A.L.S. 3p.bordered. Concerning fossils and Strata. Presses publication to fend off "the most spiteful Reviews."

Darwin, Charles, 1806-1882. March 17, [1855]

Letter to [Arthur Henfrey];

Down, Farnborough, Kent, A.L.S. 2p. Interested in a citation from Henfrey's translation of Braun's work.

Darwin, Charles, 1809-1882. 21 March, [1855-1861]

Letter to "My dear Sir;"

A.L.S. 2p. Forwards niece's article on worms to Gardners' Chronicle. Thanks for good review.

Darwin, Charles, 1806-1882. March 31, [1855]

Letter to [Arthur Henfrey];

Down, Farnborough, Kent, A.L.S. 3p. Thanks for assistance. Braun citation not known to Hooker or Bentham. Mentions Agassiz & Strickland.

Fleming, John, 1785-1857 April 9, 1855 5" x 8"

Letter to Sir Charles Lyell;

Leith, A.L.S. 4p. Comments on Lyell's fifth edition of Manuel of elementary geology.

Bunbury, Charles James Fox, Sir, May 31, 1855 9x6
1809-1885

Letter to [Charles] Lyell;

Non-Carroll Darwin Materials

Berlin, A.L.S. 6p. (see Lyell album, C) Botany. Geology. Mentions Humboldt and Hooker. Formerly B D25.L1.

Fleming, John, 1785-1857 June 6, 1855 5" x 8"
Letter to Sir Charles Lyell;

Leith, A.L.S. 3p. and enc. - 3p. Encloses his remarks on Stigmara; comments.

Humboldt, Alexander von, 1769-1859 June 6, 1855 8-1/2x5-1/2
Letter to Sir Charles Lyell, [bart.], London;

Berlin, A.L.S. 3p.and add. In French. Seal. Friendly letter. Concerning geology.

Darwin, Charles, 1809-1882. 11 July, 1855
Addressed envelope to Dr. R. C. Alexander,
London;

A.D. 1p.,end.

Darwin, Charles, 1809-1882. July 22, [1855]
Letter to [Robert Hunt];

A.L.S. 4p. Thanks for glass specimens. Has read his book on light. Wishes glasses like these and asks what tint is best where he might procure them.

Owen, Richard, 1804-1892 Aug. 11, 1855 4 1/2" x 7"
Letter to [Sir Charles] Lyell;

Royal College of Surgeons, A.L.S. 2p. Identification of certain fossil species.

Darwin, Charles, 1809-1882. Sunday Evening
Letter to Mr. Horner; [1855-1861]

Down, Bromley, Kent, Sunday Evening. A.L.S. 1p.on card;end.on reverse. Thanks for memorandum from [G.R.] Lepsius.

Darwin, Charles, 1809-1882 Thursday [1855]
Letter to [Eliza Meteyard]

Busk, George, 1807-1886 March 5, 1856 7x4-1/2

Non-Carroll Darwin Materials

Letter to Sir Charles Lyell, [bart];

A.L.S. 4p.and add.,end. Concerning fossils.

Owen, Richard, 1804-1892

March 18, 1856

4 1/2" x 7"

Letter to Sir Charles Lyell;

R. College of Surgeons, A.L.S. 3p. and env., end. Identification of specimens. Protest by Waterhouse in re British Museum affairs.

Jukes, J. Beete (Joseph Beete), 1811-1869

April 24, 1856

7-1/2x4-1/2

Letter to Sir Charles [Lyell, bart.];

New Ross, A.L.S. 7p.and end. Concerning geology.

Scrope, George Poulett, 1797-1876

April 28, 1856

7x4-1/2

Letter to Sir Charles Lyell, [bart.], London;

A.L.S. 7p.and add.,end. Concerning geology and volcanic craters.

Darwin, Charles, 1809-1882

[May, 1856]

Letter to Miss Holland

Darwin reports that an entomologist [T.V. Wollaston]staying with him said that the pupa Miss Holland had sent him would turn into a lackey moth.

Agassiz, Louis, 1807-1873

May 5, 1856

7-1/2x5

Letter to Sir Charles Lyell, London;

Cambridge, A.L.S. 3p. (see Lyell album C) Friendly letter. Natural history. Formerly B D25.L1.

Fleming, John, 1785-1857

Aug. 2, 1856

5" x 8"

Letter to Sir Charles Lyell;

Leith, A.L.S. 4p. Marriage of Andrew. Comments on Lyell's paper"On the successive changes on the temple of Serapis." Calls attention to error in 1855 ed. of the Manual.

Humboldt, Alexander von, 1769-1859

Sept., 1856

9x5-1/2

Letter to Leonard Horner;

Non-Carroll Darwin Materials

Berlin, A.L.S. 1p. and end. In French. (see Lyell album, C) Friendly note. Concerning Dr. George Tilgman (?). Formerly B D25.L1.

Darwin, Charles, 1809-1882. Nov. 10, [1856?]

Letter to [Robert Monsey Rolfe], Lord Cranworth;

Down, Bromley, Kent, A.L.S. 3p. Thanks for money for Down charities. Refuses invitation for Saturday due to health.

Owen, Richard, 1804-1892 Dec. 3, 1856 4 1/2" x 7"

Letter to [Sir Charles] Lyell;

British Museum, A.L.S. 4p. Identification of fossil specimens.

Davidson, Tho[mas William St. Clair]; 1817-1885. Dec. 29, 1856

Letter to [Charles Robert Darwin];

Brighton, Xerox of A.L.S. 4p. Brachiopods. Publications, including one of Darwin's for a French correspondent. Presented by Sydney Smith; 1976.

Owen, Richard, 1804-1892 January 7, 1857 4 1/2" x 7"

Letter to Sir Charles [Lyell];

British Museum, A.L.S. 4p. Identification of specimens sent by Mr. W.R. Brodie.

Falconer, Hugh, 1808-1865 Jan. 8, 1857 7x4-1/4

Letter to Sir Cha[rls] Lyell, [bart.];

A.L.S. with initials. 1 p. and add. Friendly letter.

Owen, Richard, 1804-1892 Jan. 27, 1857 4 1/2" x 7"

Letter to [Sir Charles] Lyell;

British Museum, A.L.S. 4p. Identification of fossil specimen.

Owen, Richard, 1804-1892 Feb. 4, 1857 4 1/2" x 7"

Letter to [Sir Charles] Lyell;

Non-Carroll Darwin Materials

British Museum, A.L.S. 8p. Comparative ages of certain tertiary mammals found in England.

Owen, Richard, 1804-1892 Feb. 17, 1857 4 1/2" x 7"
 Letter to [Sir Charles] Lyell;

British Museum, A.L.S. 4p. Dr. Murchison's illness. Regrets that a fee is to be charged for his lectures. His misgivings about Coryphodon have been set at rest.

Babington, Churchill, 1821-1889 March 12, 1857 6x4
 Letter to Mrs. [K.M.H.] Lyell;

Suffolk, A.L.S. 3p. (see Lyell album, C) Praises her book highly. Refers to Hooker. Formerly B D25.L1.

Owen, Richard, 1804-1892 April 23, 1857 4 1/2" x 7"
 Letter to Sir Charles [Lyell];

British Museum, A.L.S. 2p. Mammalian fossils from Purbeck. Publication of his "Lectures on Fossil Mammalia."

Owen, Richard, 1804-1892 April 25, 1857 4 1/2" x 7"
 Letter to Sir Charles [Lyell] British Museum,

A.L.S. 2p. Assures him there will be plenty of space for the Purbeck mammals in his work on fossil mammals.

Owen, Richard, 1804-1892 April 30, 1857 4 1/2" x 7"
 Letter to Sir Charles [Lyell];

British Museum, A.L.S. 4p. Still desires to offer his descriptions of the mammalia of Purbeck to the council of the Paleontographical Society. Is indebted to Sir Charles for his part in their discovery. His work on the History of British Fossil Reptiles.

Bunbury, Charles James Fox, Sir, 1809-1885 Oct. 17, Nov. 15, 1857 8-1/2x5-1/2
 Letter to [Charles] Lyell;

Mildenhall, A.L. 4p. (see Lyell album, C) Friendly letter. Botany. Formerly B D25.L1.

Non-Carroll Darwin Materials

Owen, Richard, 1804-1892	Feb. 4, 1858	4 1/2" x 7"
Letter to [Sir Charles] Lyell;		
British Museum, A.L.S. 3p. Desires a certain reference about the genus <i>Placodus</i> .		
Scrope, George Poulett, 1797-1876	April 3, 1858	7x4-1/2
Letter to Sir Cha[rle]s Lyell,[bart.], London;		
A.L.S. 16p.and add.,end. Concerning volcanoes. Refers to Humboldt.		
Scrope, George Poulett, 1797-1876	May 8, 1858	7x4-1/2
Letter to Sir Cha[rle]s Lyell, [bart.];		
A.L.S. 4p.and add.,end. Concerning volcanoes.		
Boott, Francis, 1792-1863	June 10, 1858	7x4-1/2
Letter to Mrs. [Lloyd] Horner;		
A.L.S. 2p. (see Lyell album,C) Death of Robert Brown. Formerly B D25.L1.		
Scrope, George Poulett, 1797-1876	June 10, 1858	7x4-1/2
Letter to [Sir Charles] Lyell, [bart.];		
A.L.S. 8p. Concerning lava and volcano craters.		
Darwin, Charles, 1809-1882	October 13 [1858]	
Letter to [Col. Poole]		
Down, Bromley, Kent, A.L.S. 4pp. Darwin reports that he has received a communication from Col. R. Curtis in India on the crowns and stripes of native horses, a subject in which he is particularly interested. Sends list of questions [not appended.]		
Scrope, George Poulett, 1797-1876	Feb. 4, 1859	7x4-1/2
Letter to Sir Charles [Lyell, bart.];		
A.L.S. 4p. Concerning Elie de Beaumont on Etna. Refers to Humboldt and von Buch.		
Scrope, George Poulett, 1797-1876	Feb. 7, 1859	7x4-1/4
Letter to Sir Charles Lyell, [bart.];		

Non-Carroll Darwin Materials

A.L.S. 7p.and add.,end. Concerning volcanoes.

Ehrenberg, Christian Gottfried, 1795-1876 Feb. 14, 1859 9x5-1/2

Letter to Dame Pertz;

Berlin, A.L.S. 2p. In German. (see Lyell album, C)

Scrope, George Poulett, 1797-1876 May 12, 1859 7x4-1/4

Letter to Sir Charles Lyell, [bart.], London;

A.L.S. 4p.and add.,end. Concerning volcanoes. Refers to Élie de Beaumont, Humboldt, von Buch, and Murchison.

Huxley, Thomas Henry, 1825-1895 May 13, 1859 5-1/2x9

Sketch of a fossil;

D. 1p., end. (see Lyell album, C), Formerly B D25.L1.

Owen, Richard, 1804-1892 June 4, 1859 4 1/2" x 7"

Letter to Sir Charles[Lyell];

British Museum, A.L.S. 1p. Vertebrae found in the Cambridge green-sand beds.

Hooker, Joseph Dalton, Sir, 1817-1911 June 13, 1859 6x3-1/2

Letter to Mrs. [K.M.H.] Lyell;

Kew, A.L.S. 4p. (see Lyell album, C) Friendly letter. Botany. Formerly B D25.L1.

Newton, Alfred, 1829-1907 July 25, 1859 7x4-1/2

Letter to Sir Charles Lyell;

A.L.S. 8p., add., end. (see Lyell album. C) Geology of Scandinavia, Formerly B D25.L1.

Huxley, Thomas Henry, 1825-1895 June 26, 1859

Letter to Sir Cha[rle]s Lyell;

A.L.S. 1p. and enc. - 12p., and env., end. Progressive development. Thinks transmutation may take place without transition. Listed in Apes,Angels,Victorians as June 25,1853.

Scrope, George Poulett, 1797-1876 Sept. 4, 1859 7x4-1/2

Non-Carroll Darwin Materials

Letter to [Sir Charles] Lyell,[bart.];

A.L.S. 4p.and add.,end. Concerning fossils.

Murchison, Roderick Impey, Sir, Oct. 12, 1859 7-1/4x4-1/2
1792-1871

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 6p. Concerning the question of the geological age of sandstone.

Huxley, Thomas Henry, 1825-1895 Oct. 18, 1859 4 1/2" x 7"

Letter to Sir Cha[rle]s Lyell;

Jermyn St., A.L.S. 4p. and env., end. The Elgin beds.

Murchison, Roderick Impey, Sir, Oct. 19, 1859 7x4-1/2
1792-1871

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 12p. Concerning the geological formation of sandstone. Concerning fossils.

Darwin, Charles,1809-1882. 31 Oct., [1859] 6 1/2" x 8
Letter to [Sir Charles] Lyell; 1/4"

Wells Seneca, Monday (?) A.L.S. 4p. Printed: More letters of C. Darwin, v.127. B D25.L no. 175

Darwin, Charles, 1809-1882 [1859] Nov. 11

Letter to F.J. Pictet de la Rive

Darwin writes that he is sending a copy of the Origin; "it may possibly lead you to reflect further on the side opposed to your view".

Scrope, George Poulett, 1797-1876 Nov. 17, 18[59?] 7x4-1/2

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 7p. Concerning fossil man. Concerning volcanoes. Refers to Babbage.

Scrope, George Poulett, 1797-1876 Dec. 12, 1859 7x4-1/2

Letter to Sir Cha[rle]s Lyell, [bart.],

London;

Non-Carroll Darwin Materials

A.L.S. 6p.and add.,end. Concerning geology and volcanoes. Refers to Humboldt.

Darwin, Charles,1809-1882.	22 Dec., [1859]	4 3/4" x 7
Letter to [Sir Charles] Lyell;		1/2"

Down, Bromley, Kent, A.L.S. 4p. Printed almost entirely: Life and letters of C. Darwin, v.2,245. B D25.L no. 186

Darwin, Charles, 1809-1882	[1859] December 24
Letter to [F.J. Pictet de la Rive]	

Darwin states that, "I rest my conviction solely on the fact, as it seems to me, that the theory explains large classes of facts otherwise inexplicable."

Gray, Asa, 1810-1888	Jan. 16, 1860	8x5
Letter to [Francis] Boott;		

Cambridge, A.L.S. 2p. (see Lyell album,C) Concerning Darwin's book. Agassiz is against it and he wished he could "shut Agassiz' mouth." Formerly B D25.L1.

Darwin, Charles, 1809-1882.	16 Jan., [1860]
Letter to "Dear Sir";	

Down, Bromley, Kent, A.L.S. 1p.and end. Requests works by Tennent on Ceylon, Owen on mammal distribution. Will pay whole account on receipt.

Boott, Francis, 1792-1863	Jan. 26, 1860	7x4-1/2
Letter to Lady [Mary Horner] Lyell;		

A.L.S. 4p. (see Lyell album, C) Concerning John Brown. Mentions Sir Charles. Formerly B D25.L1.

Boott, Francis, 1792-1863	Feb. 6, 1860	7x4-1/2
Letter to Lady [Mary Horner] Lyell;		

A.L.S. 2p. (see Lyell album,C) Concerning John Brown. Formerly B D25.L1.

Darwin, Charles [Robert], 1809-1882.	Feb. 6, [1860]
Letter to "My dear Sir;"	

Non-Carroll Darwin Materials

Down, Bromley, Kent, L.S. 4p. Geological observations. Glad he is to "give a little more age to the world."

Darwin, Charles, 1809-1882 [1860] February 23

Letter to "Dear Sir"

Darwin discusses the reception of his book [Origin]. He mentions the opinions of Asa Gray and Louis Agassiz.

Boott, Francis, 1792-1863 March 12, 1860 7x4-1/2

Letter to Lady [Mary Horner] Lyell;

A.L.S. 3p. (see Lyell album C) Friendly letter. Mentions Darwin and Sir Charles. Formerly B D25.L1.

Henslow, J. S. (John Stevens), 1796-1861 March 16, 1860 7-1/2x4-1/2

Letter to [Charles] Lyell;

Suffolk, A.L.S. 6p. (see Lyell album, C) Friendly letter. Mentions Darwin and Agassiz. Formerly B D25.L1.

Huxley, Thomas Henry, 1825-1895 March 17, [1860?] 4 1/2" x 7"

Letter to Sir Charles Lyell;

Saturday morning. A.L. 4p. and env., end. il. Education of women.

Darwin, Charles, 1809-1882 21 March [1860-61]

Letter to Maxwell Masters

Darwin, Charles, 1809-1882 [April, 1860]

Letter to Miss Holland

Darwin, Charles, 1809-1882 [1860] April 1

Letter to "Dear Sir"

Darwin thanks the correspondent for his review of the Origin.

Darwin, Charles, 1809-1882 [13 May, 1860]

C[harles Robert] Darwin to

Non-Carroll Darwin Materials

A.L.S. 1p.and end. Requests publications.

Darwin, Charles, 1809-1882 Oct. 3, [1860]

Letter to [Jeffries Wyman];

Down, Bromley, Kent, Photostat of A.L.S. 10p. Printed: Isis, v.42,pt.2,1951,105-107. Presented by A.H. Dupree, Feb.1953. from originals in possession of Jeffries Wyman, Jr. Formerly in MISC MS COLLECTION, B D25.106

Henslow, J. S. (John Stevens), 1796-1861 Oct. 7, 1860 7-1/2x4-1/2

Letter to [Charles] Lyell;

Ipswich, A.L.S. 12p. (see Lyell album, C) Geology of northern France. Formerly B D25.L1.

Huxley, Thomas Henry, 1825-1895 Nov. 26, 1860 7x4-1/2

Letter to ----;

A.L.S. 4p. (see Lyell album, C) Concerning craniums. Formerly B D25.L1.

Boott, Francis, 1792-1863 Nov. 27, 1860 7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 4p. (see Lyell album, C) Botany. Friendly letter. Mentions Charles Lyell. Formerly B D25.L1.

Darwin, Charles, 1809-1882 Dec. 3, [1860]

Letter to [Jeffries Wyman];

Down, Bromley, Kent; Photostat of A.L.S. 4p. Printed: Isis, v.42,pt.2,1951,107-108. Presented by A.H. Dupree, Feb. 1953, From originals in possession of Jeffries Wyman, jr. Formerly in MISC MS COLLECTION, B. D25.107

Huxley, Thomas Henry, 1825-1895 Dec. 12, 1860 7x4-1/2

Letter to Mrs.[K.M.H.] Lyell;

A.L.S. 4p. (see Lyell album, C) Friendly letter. Concerning the birth of his son. Formerly B D25.L1.

Boott, Francis, 1792-1863 Dec. 18, 1860 7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 3p. (see Lyell album,C) Friendly letter. Formerly B D25.L1.

Non-Carroll Darwin Materials

Wallace, Alfred Russel, 1823-1913 1860 7x4-1/2

Letter to Sir Charles Lyell;

London, Monday afternoon [ca.?]. A.L.S. 2p. (see Lyell album, C) Will call to discuss Darwin's work. Formerly B D25.L1.

Darwin, Charles, 1809-1882 [1861] 7 January

Letter to Dear Sir [Librarian]

Darwin orders a journal volume [Memoires presentee par divers savans a [Academie des Sciences] from a librarian.

Darwin, Charles, 1809-1882. 8 Jan., [1861-1869]

Letter to "Dear Sir;"

A.L.S. 1p. Acknowledgements. Comments on his health.

Busk, George, 1807-1886 Jan. 21, 1861 7x4-1/2

Letter to Sir Charles Lyell, [bart.] 61

A.L.S. 5P.and add.,end. Concerning the ethnology of the Baltic area.

Darwin, Charles, 1809-1882. 1 Feb., [1861-1869]

Letter to [William?] Buckland;

A.L.S. 4p. "Variation under domestication" restricted in scope. Discusses interbreeding; looks for London meeting; Darwin's health.

Darwin, Charles, 1809-1882 Feb. 3, [1861]

Letter to [Jeffries Wyman;

Down, Bromley Kent, Photostat of A.L.S. 4p. Printed: Isis, v.42, pt.2, 1951, 108-109. Presented by A.H. Dupree, Feb. 1953, from originals in possession of Jeffries Wyman, jr. Formerly B D25.108.

Darwin, Charles, 1809-1882. 12 Feb., [1861-1869]

Letter to "My dear Sir;"

L.S. 4p.end. & autograph p.s. Inquires about sex retios in fish, mammals & birds. Land & Water (Magazine).

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882.

12 Feb., [1861-1869]

Letter to "My dear Sir";

A.L.S. 3p. Note to engraver; asks for bill; London "disagrees with my health." Mentions Geographical Society.

Darwin, Charles, 1809-1882.

14 Feb., [1861]

Letter to [Leonard Horner];

Down, A.L.S. 3p. Variations in nature arise from unknown causes, and are preserved by natural selection if beneficial. Gift of Owen & Miriam Gingerich in memory of Cecilia Payne Gaposchkin.

Darwin, Charles, 1809-1882

29 February [1861-1869]

Ch[arles Robert] Darwin to

Darwin, Charles, 1809-1882.

29 Feb., [1861-1869]

Letter to "My dear Sir;"

A.L.S. 2p. Experiments on plant fertilization. Thanks for presents, one "charlatanry." Mr. Busk, article by Thury.

Busk, George, 1807-1886

April 17, 1861

7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 7p.and add.,end.and sketch of a jawbone. Concerning fossils.

Lyell, Charles, Sir, 1797-1875

April 17, 1861

7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 7p.and add.,end.and sketch of a jawbone. Concerning fossils.

Lyell, Katharine Murray (Horner), Mrs., May, 1861

9x5-1/2

d. 1915

Flowers picked at Humboldt's grave at Tegal;

D. 1p. Formerly B D25.L1.

Darwin, Charles, 1809-1882.

7 May, [1861-1869]

Non-Carroll Darwin Materials

Letter to "My dear Sir;"

A.L.S. partly in Darwin's hand. 6p. with 2p. enclosures. Thanks for letters. Diverse points of ornithology and botany. Encloses queries; mentions Henslow.

Huxley, Thomas Henry, 1825-1895

June 15, 1861

5-1/2x3-1/2

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 4p. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882.

20 June, [1861-1869]

Letter to "Dear Sir;"

A.L.S. 2p., end. Sends copy of paper "written many years ago" and not for publication; mentions Wallace's paper as "excellent."

Darwin, Charles, 1809-1882

20 June [1861-1869]

Ch[arles Robert] Darwin to

Huxley, Thomas Henry, 1825-1895

June 26, 1861

4 1/2" x 7"

Letter to Sir Charles Lyell;

A.L.S. 4p. and env., end. Capacity of brain and convolutions in man and highest apes.

Darwin, Charles, 1809-1882.

July 20, [1861]

Letter to [Sir Charles] Lyell;

2, Hesketh Crescent, Torquay, A.L.S. 4p. Portion printed: Life and letters of C. Darwin, v.2, 376. Formerly B D25.L no.258

Darwin, Charles, 1809-1882.

24 July, [1861-1864]

Letter to "My dear Sir;"

A.L.S. 4p. His son's illness, more on peloria; mentions Prosper Lucas, Botanical Society.

**Murchison, Roderick Impey, Sir,
1792-1871**

July 30, 1861

9x7-1/4

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 2p. Friendly letter. Refers to Geikie.

Non-Carroll Darwin Materials

Murchison, Roderick Impey, Sir, 1792-1871	Aug. 23, 1861	7x4-1/2
Letter to [Sir Charles] Lyell, [bart.];		
A.L.S. 7p. Friendly letter. Concerning geology. Refers to Humboldt.		

Murchison, Roderick Impey, Sir, 1792-1871	Sept. 25, 1861	7x4-1/2
Letter to [Sir Charles] Lyell, [bart.];		
Norfolk, A.L.S. 4p.and add.,end. Friendly letter. Concerning geology. Refers to Scrope.		

Darwin, Charles, 1809-1882.	11 Oct., [1861-1869]	
Letter to "Dear Sir;"		
L.S. 2p.,end. Thanks for book on language; health may prevent its being read.		

Huxley, Thomas Henry, 1825-1895	Oct. 17, 1861	2-3/4x4-3/4
Addressed envelope:		
Mrs. [Lady Mary Horner] Lyell; A.D. 1p. Formerly B D25.L1.		

Huxley, Thomas Henry, 1825-1895	[1861 November 16?]	
Letter to "M. le baron" [Sir Charles Lyell]		

Huxley, Thomas Henry, 1825-1895	Nov. 28, 1861	4 1/2" x 7"
Letter to Sir Charles Lyell;		
Jermyn St., A.L.S. 3p. and env., end. Newark human skull.		

Busk, George, 1807-1886	Dec. 5, 1861	7x4-1/2
Letter to Sir Charles [Lyell];		
Cavendish Square, A.L.S. 4p. (see Lyell album, C) Concerning a fossil skull. Formerly B D25.L1.		

Huxley, Thomas Henry, 1825-1895	Dec. 6, 1861	4 1/2" x 7"
Letter to Sir Charles Lyell;		

Non-Carroll Darwin Materials

Jermyn St., A.L.S. 4p. and env., end. Is writing a review of St. Hilaire's "Trois Regnes." Cariano de Prado (?) elected to membership in ----. Desires to know what Lady Lyell thinks of the San Jacinto business.

Darwin, Charles, 1809-1882. 26 Dec., [1861-1869]

Letter to "Dear Sir;" [J.X.R. Caspary]

A.L.S. 3p.and end. Letter of thanks concerning crossing and fertilizing plants. Mentions Hooker.

Huxley, Thomas Henry, 1825-1895 Jan. 25, 1862 4 1/2" x 7"

Letter to Sir Charles Lyell;

Jermyn St. A.L.S. 4p. and env., end. Neanderthal skull. Pressure of work.

Murray, John (III), 1808-1892. Jan. 30, [1862?]

Letter to Charles [Robert] Darwin;

A.L.S. 3p. Thanks for introduction to H. W. Bates and wishes to see his manuscript for publication.

Huxley, Thomas Henry, 1825-1895 March 10, 1862 4 1/2" x 7"

Letter to Sir Charles Lyell;

London, A.L.S. 4p.and env., end. Ramsay's glacial theory of lakes of Switzerland.

Rolleston, George, 1829-1881 April 21, 1862 7-1/4x4-1/2

Letter to Sir Charles Lyell, [bart.];

Oxford, A.L.in 3rd.P. 3p.and add.,end. Concerning hibernation.

Huxley, Thomas Henry, 1825-1895 May 5, 1862 4 1/2" x 7"

Letter to Sir Charles Lyell;

Jermyn St. A.L.S. 4p. and env., end. Mr. Marsh's discovery about Is working on his "Evidences as to man's place in nature."

Darwin, Charles, 1809-1882 6 May, 1862

Envelope addressed to George Cupples

Parlatore, Filippo, 1816-1877 June 22, 1862 8x5-1/2

Letter to [Mrs. K.M.H. Lyell];

Non-Carroll Darwin Materials

London, A.L.S. 2p. In French. (see Lyell album, C) Letter of thanks. Formerly B D25.L1.

Darwin, Charles, 1809-1882 8 July [1862]
Letter to Maxwell Masters

Darwin, Charles, 1809-1882. 8 July, [1862]
Letter to "My dear Sir;" [Maxwell Masters]

A.L.S. 4p.,end. Requests experiments and data on peloric flowers.

Darwin, Charles, 1809-1882 24 July [1862]
Letter to Maxwell Masters

Edgeworth, Michael Pakenham, July 9, 1862 7-1/2x4-1/2
1812-1881
Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 4p. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Owen, Richard, 1804-1892 Aug. 14, 1862 (?) 4 1/2" x 7"
Letter to [Sir Charles] Lyell;

Maidenhead, A.L.S. 8p. Identification of fossil specimens.

Huxley, Thomas Henry, 1825-1895 Aug. 17, 1862 4" x 6"
Letter to Sir Charles Lyell;

A.L.S. 6p. and env., end. Replies to Sir Charles's critical remarks on his work. Darwin and natural selection; Lamarck.

Darwin, Charles, 1809-1882 1862, August 26
Letter to Miss Ludwig

Family news, but mostly an account of ill health.

Flower, William Henry, 1831-1899 Nov. 29, 1862 7x4-1/2
Letter to Sir Cha[rle]s Lyell, [bart.];

London, A.L.S. 3p. Concerning natural history. Refers to the zoological society.

Darwin, Charles, 1809-1882 12 December [1862]

Non-Carroll Darwin Materials

Letter to W.F. Kirby

Darwin, Charles, 1809-1882 22 December [1862]

Letter to [John B.] Innes

Darwin, Charles, 1809-1882. 6 Jan., [1863]

Letter to Prof. [Daniel] Oliver;

A.L.S. 3p. Concerning Genlisea.

Flower, William Henry, 1831-1899 Jan. 9, 1863 7-1/4x4-1/2

Letter to Sir Charles Lyell, [bart.];

and 4x8

A.L.S. 6p. Concerning brains. Refers to Owen.

Huxley, Thomas Henry, 1825-1895 Jan.10, 1863 4 1/2" x 7"

Letter to Sir Charles Lyell;

Jermyn A.L.S. 4p. and env., end. Anthracosaurus. Marsh's case virtually demolished.

Darwin, Charles,1809-1882. 4th Feb., [1863?] 5" x 8"

Letter to [Sir Charles] Lyell;

Down, A.L.S. 3p. Acknowledges book [Antiquity of man, 1st ed. ?]. Comments on [Sir Richard ?] Owen. Formerly B D25.L no.287

Murchison, Roderick Impey, Sir, Feb. 7, 1863 7x4-1/2
1792-1871

Letter to Sir Charles Lyell, [bart.];

A.L.S. 4p.and add.,end. Concerning geology. Friendly letter.

Darwin, Charles,1809-1882. 17 Feb., [1863] 5" x 7 1/2"

Letter to [Sir Charles] Lyell;

Down, Bromley, Kent, A.L.S. 3p. Printed: More letters of C. Darwin, v.1,236. Formerly B D25.L no.288

Whewell, William, 1794-1866 Feb. 28, 1863 7x4-1/2

Letter to Sir Charles Lyell, [bart.], London;

Non-Carroll Darwin Materials

Cambridge, A.L.S. 4p.and add.,end. Friendly letter. Refers to Cuvier. Printed:
Todhunter,Wm.Whewell...; v.1,429-430.

Darwin, Charles, 1809-1882 [1863] March 10

Letter to Sir William Bowman

Darwin promises to send a portion of the copied manuscript [of Variation 2:8-10] for Bowman to examine. He also asks about inherited abnormalities of the eye.

Hooker, William Jackson, Sir, 1785-1865 March 15, 1863 7x4-1/2

Letter to Mrs. [Henry] Lyell;

A.L.S. 3p., end. (see Lyell album,C) Friendly letter. Formerly B D25.L1.

Huxley, Thomas Henry, 1825-1895 March 23, 1863 4 1/2" x 7"

Letter to Sir Charles Lyell;

Jermyn St., A.L.S. 3p. and env., end. Comments on Flower's discovery about the Siamang's brain.

Herschel, John F. W. (John Frederick William), Sir, 1792-1871 April 13, 15, 1863 4 1/2" x 7"

Letter to Sir Charles Lyell;

Collingwood, A.L.S. 8p. Comments on Lyell's Antiquity of Man.

Darwin, Charles,1809-1882. April 18, [1863] 5" x 8"

Letter to [Sir Charles] Lyell;

Down, Bromley, Kent, A.L.S. 6p. Printed in part: Life and letters of Charles Darwin, v.3, 20.
Formerly B D25.L no.294

Lyell, Charles, Sir, 1797-1875 April 22, 1863 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 3p. Friendly letter. Refers to Darwin.

Wallace, Alfred Russel, 1823-1913 April 22, 1863 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 3p. Friendly letter. Refers to Darwin.

Non-Carroll Darwin Materials

Lyell, Charles, Sir, 1797-1875 May 3, 1863 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

Oxford, A.L.S. 9p. Concerning Owen and Cuvier on the brain. Refers to Agassiz and Flourens.

Darwin, Charles, 1809-1882. 7 May, 1863

Letter to [Sir Charles] Lyell;

Dorking, Surrey, ca. Xerox of A.L.S. 4p. (From original in Cambridge Univ. Lib.) Mentions unjust letter of Falconer. Papers of S. Haughton, a "Clever fellow." Mentions Bates & butterflies, Asa Gray, R.Owen and B. Silliman. Formerly B D25.L no.275

Whewell, William, 1794-1866 May 14, 1863 7-1/4x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 2p. Friendly letter. Printed: Todhunter, Wm. Whewell...; vol. 1, 430.

Parlatore, Filippo, 1816-1877 May 22, 1863 8-1/2x5-1/2

Letter to [Mrs. K.M.H. Lyell];

Florence, A.L.S. 2p. In French. (see Lyell album, C) Botany. Friendly letter. Formerly B D25.L1.

Whewell, William, 1794-1866 June 5, 1863 7x4-1/2

Letter to Sir Charles [Lyell, bart.];

A.L.S. 4p. and add., end. Friendly letter. Printed: Todhunter, Wm. Whewell...; vol. 1, 431-432.

Gray, Asa, 1810-1888 June 8, 1863 8x5-1/2

Letter to Sir Charles Lyell;

Cambridge, A.L.S. 1p. and add., end. (see Lyell album, C) Thanks for his book. Mentions Darwin. Formerly B D25.L1.

Bentham, George, 1800-1884 June 29, 1863 7x4-1/2

Letter to Sir Charles [Lyell];

Wilton Place, S.W., A.L.S. 1p. Enc. wanting. (see Lyell album, C) Concerning his address to the Linnean Society. Formerly B D25.L1.

Darwin, Charles, 1809-1882 9 July [1863]

Non-Carroll Darwin Materials

Letter to [W.F. Kirby?]

Darwin, Charles, 1809-1882.

July 29, [1863]

Letter to [G.H.K.]Thwaites;

Down, Bromley, Kent, A.L.S. 4p. Botanical specimens. Views on algae.

Rolleston, George, 1829-1881

July 30, 1863

7x4-1/2

Letter to Sir Charles Lyell, [bart.];

Oxford, A.L.S. 1p.and enc. of 6p. Concerning a dispute with Cuvier on the Hottentots Concerning von Baer on the origins of the species

Darwin, Charles,1809-1882.

Aug. 14, [1863]

5" x 8"

Letter to [Sir Charles] Lyell;

Down, Bromley, Kent, A.L.S. 4p. Printed in part: More letters of C. Darwin, v.1,243. Formerly B D25.L no.296

Darwin, Charles, 1809-1882

1 September [1863]

Letter to [John B.] Innes

Lyell, Charles, Sir, 1797-1875

Sept. 25, 1863

7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 3p. Concerning the brain of the Hottentots. Refers to Owen and Cuvier.

Rolleston, George, 1829-1881

Sept. 25, 1863

7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 3p. Concerning the brain of the Hottentots. Refers to Owen and Cuvier.

Darwin, Charles, 1809-1882

Oct. 8, [1863?]

Letter to [Jeffries Wyman];

Down, Bromley, Kent, Photostat of A.L.S. 4p. Printed: Isis,v.42,pt.2,1951,109-110. Presented by A.H. Dupree, Feb.1953, from originals in possession of Jeffries Wyman. jr. B D25.109

Rolleston, George, 1829-1881

Oct. 15, [1863?]

7x4-1/2

Letter to Sir Charles Lyell, [bart.];

Non-Carroll Darwin Materials

Oxford, A.L.S. 2p.and enc.(in French) of 3p. Forwards extract of Flourens article on the Hottentots.
Refers to Owen.

Oliver, Daniel, 1830-1916 Nov. 16, 1863 7x4-1/2

Letter to Sir Charles Lyell, Harley Street;

Richmond, A.L.S. 6p. and add., end. (see Lyell album, C) Botany. Mentions Hooker. Formerly B D25.L1.

Darwin, Charles, 1809-1882. Dec. 29, [1863]

Letter to [G.H.K.] Thwaites;

Down, Bromley, Kent, Copy of L. 4. Plant variations.

Wallace, Alfred Russel, 1822-1913 [ca. 1863?] Monday

Letter to Sir Charles Lyell, [bart.]

Wallace proposes a Thursday afternoon visit to Lyell.

Murchison, Roderick Impey, Sir, 1792-1871 Feb. 4, 1864 7x4-1/2

Letter to [Sir Charles] Lyell, [bart.];

A.L.S. 6p. Concerning his geological works. Refers to Darwin.

Wallace, Alfred Russel, 1823-1913 Feb. 9, 1864 7x4-1/2

Letter to Sir Charles Lyell;

Westbourne Grove Terrace, A.L.S. 3p. (see Lyell album, C) Anthropology. Formerly B D25.L1.

Wallace, Alfred Russel, 1823-1913 Feb. 14, 1864 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 7p. Concerning natural history and the natural history of Borneo.

Scrope, George Poulett, 1797-1876 March 19, 1864 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 5p.and add.,end. Concerning volcanoes. Formerly B D25.L1.

Oliver, Daniel, 1830-1916 April 4, 1864 7-1/2x4-1/2

Non-Carroll Darwin Materials

Letter to Sir Charles [Lyell];

A.L.S. 3p. (see Lyell album, C) Botany.

Lyell, Charles, Sir, 1797-1875 May 24, 1864 7x4-1/2

Letter to Sir Cha[rle]s Lyell, [bart.];

A.L.S. 4p. Concerning the antiquity of man. Refers to Huxley.

Wallace, Alfred Russel, 1823-1913 May 24, 1864 7x4-1/2

Letter to Sir Cha[rle]s Lyell, [bart.];

A.L.S. 4p. Concerning the antiquity of man. Refers to Huxley CE. Formerly B D25.L1.

Ball, John, 1818-1889 June 1, 1864 7x4-1/2

Letter to Sir Charles Lyell, Harley Street;

Oxford, A.L.S. 12p. (see Lyell album, C) Glaciers. Geology.

Herschel, John F. W. (John Frederick William), Sir, 1792-1871 June 2, 1864 4 1/2" x 7"

Letter to Sir Charles Lyell;

Collingwood, A.L.S. 4p. and env. Introduces his son and young bride.

Darwin, Charles, 1809-1882. 31 July, 1 Aug, 1864

Addressed envelope to John Scott, Harwick;

A.D. 1p.

Darwin, Charles, 1809-1882 20 September [1864]

Letter to Maxwell [Masters]

Darwin, Charles, 1809-1882 21 October, 1864

Letter to B[enjamin] D[ann] Walsh

Murchison, Roderick Impey, Sir, 1792-1871 Nov. 13, 1864 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

Non-Carroll Darwin Materials

Letter to Sir C[harles] Lyell;

Collingwood, A.L.S. 4p. and env., end. Comments on Croll's paper on astronomical causes of change of climate. Encloses extract of letter to Croll [see Herschel to Croll, Feb. 6, 1865]

Darwin, Charles, 1809-1882 14 February [1865]
Letter to [A.D. Bartlett]

Darwin, Charles, 1809-1882. 14 Feb., [1865]
Letter to "My dear Sir;"

L.S. 1p. and end. Thanks for specimens (feathers, a rabbit.)

Herschel, John F. W. (John Frederick William), Sir, 1792-1871 Feb. 15, 1865 4 1/2" x 7"
Letter to Sir C[harles] Lyell;

Collingwood, A.L.S. 4p. and env. and enc. Excentricity of orbit. Stalden earthpillars.

Herschel, John F. W. (John Frederick William), Sir, 1792-1871 Feb. 19, 1865 4" x 6"
Letter to Sir Charles [Lyell];

Collingwood, A.L.S. 4p. Effect of cold on shells. Sends drawings.

Murchison, Roderick Impey, Sir, 1792-1871 Feb. 24, 1865 7-1/4x4-1/2
Letter to Sir Charles Lyell, [bart.];

A.L.S. 6p. and add., end. Concerning geology.

Herschel, John F. W. (John Frederick William), Sir, 1792-1871 Feb. 26, 1865 4" x 6"
Letter to Sir Charles] Lyell;

Collingwood, A.L.S. 4p. and env. end. Leverrier on phases of excentricity taking 900,000 years.
Legrange on the climate of Mars. Earth -pillars.

Herschel, John F. W. (John Frederick William), Sir, 1792-1871 March 5, 1865 4" x 6"

Non-Carroll Darwin Materials

Letter to Sir Charles Lyell;

Collingwood, A.L.S. 9p. and end. Temperature of space. Rhomboidal slabs.

Murchison, Roderick Impey, Sir, March 12, 1865 7x4-1/4
1792-1871

Letter to Sir Charles Lyell;

A.L.S. 4p. and add., end. Concerning geology.

Wallace, Alfred Russel, 1823-1913 March 19, 1865 7x4-1/4
Letter to Sir Charles Lyell, [bart.];

A.L.S. 6p. Concerning the migration of animal life in the south Pacific. Refers to Darwin.

Darwin, Charles, 1809-1882 27 March, 1865
Letter to B[enjamin] D[ann] Walsh

Herschel, John F. W. (John Frederick April 25, 1865 4 1/2" x 7"
William), Sir, 1792-1871

Letter to Sir Charles Lyell;

Collingwood, A.L.S. 3p. and env. and enc. Sends table computed by Leverrier of the excentricities of the earth's orbit from B.C. 98201 to A.D. 101800.

Anthony, John Gould, 1804-1877 May 3, 7, 1865 8-1/2x5-1/2
Letter to Lady [Mary Horner] Lyell;

Rio de Janiero, A.L.S. 5p. (see Lyell album C Natural history of Brazil. News of their expedition. Concerning Agassiz. Formerly B D25.L1.

Herschel, John F. W. (John Frederick May 6, 1865 4" x 6"
William), Sir, 1792-1871

Letter to Sir Charles Lyell;

Collingwood, A.L.S. 4p. and env., end. Croll's zero of space; absolute maxima of excentricities. Earth pyramids in Good Words.

Jardine, William, Sir, 1800-1874 June 5, 1865 7x4-1/2
Letter to J.D. Hooker;

Non-Carroll Darwin Materials

A.L.S. 2p. (see Lyell album, C) Asks for an appointment. Formerly B D25.L1.

Darwin, Charles, 1809-1882

9 July, 1865

Letter to B[enjamin] Walsh

Beccari, Odoardo, 1843-1920

Aug. 2, 1865

8-1/2x5-1/2

Letter to Charles Lyell, London;

Sarawak., A.L.S. 4p. and add., end. In Italian. (see Lyell album, C) Botany. Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882

Wednesday, 11 October

Letter to F.W. Farrar

[1865]

**Murchison, Roderick Impey, Sir,
1792-1871**

Nov. 18, 1865

7-1/4x4-1/2

Letter to [Sir Charles] Lyell, [bart];

A.L.S. 4p. Concerning limestone.

Huxley, Thomas Henry, 1825-1895

Nov. 27, 1865

4 1/2" x 7"

Letter to Sir Charles Lyell;

Jermyn St., A.L.S. 7p. and env., end. New genera of labyrinthodonts discovered in Ireland. Owen's and Dawson's works.

**Herschel, John F. W. (John Frederick
William), Sir, 1792-1871**

Dec. 7, 1865

4 1/2" x 7"

Letter to Sir Charles Lyell;

Collingwood, A.L.S. 3p and env., end. His daughter's marriage. Earth pillars; gives permission for Lyell to use his drawings of pillars. Lyell's poor eye-sight.

Darwin, Charles, 1809-1882

19 December, 1865

Letter to Benjamin D[ann] Walsh

Anthony, John Gould, 1804-1877

Nov. 30, Jan. 7, 1865-1866 8x5

Letter to Lady [Mary Horner] Lyell;

Non-Carroll Darwin Materials

Cambridge, A.L.S. 4p. (see Lyell album, C) Natural history. Friendly letter. Concerning Agassiz and Sir Charles. Formerly B D25.L1.

Darwin, Charles, 1809-1882 Feb. 2, 1866

Letter to [Jeffries Wyman];

Down, Bromley, Kent, Photostat of L.S. 4p. Printed: Isis, v.42, pt.2, 1951,110. Presented by A.H. Dupree, Feb. 1953, from originals in possession of Jeffries Wyman, jr. Formerly B D25.110.

Darwin, Charles,1809-1882. Feb. 22, [1866] 4 1/2" x 7"

Letter to [Sir Charles] Lyell;

Down, A.L.S. 3p. Glad to have errors pointed out by [Sir Charles J.F.] Bunbury. Murray wants new edition of the Origin. B D25.L no. 314

Darwin, Charles, 1809-1882 28 February [1866]

Letter to [John William Salter?]

Darwin, Charles,1809-1882. March 3, [1866] 4-1/2x 7"

Letter to [Sir Charles] Lyell;

Down, Saturday. A.L.S. 4p. Additional facts about the mundane cold period. Offers to lend Lyell notes on subject. B D25.L no. 315

Darwin, Charles, 1809-1882 [1866] March 28

Letter to A. Muller

Writes on slave-making ants; cannot explain why fewer slaves are caught in England than in Switzerland.

Darwin, Charles, 1809-1882 20 April, 1866

Letter to Benj[amin] D[ann] Walsh

Flower, William Henry, 1831-1899 May 10, 1866 7x4-1/2

Letter to Sir Charles Lyell;

London, A.L.S. 3p. and add., end. (see Lyell album, C) Sends article on natural history. Formerly B D25.L1.

Huxley, Thomas Henry, 1825-1895 May 10, [1866] 8x8

Non-Carroll Darwin Materials

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 1p. and add. (see Lyell album, C) Natural history. Formerly B D25.L1.

Darwin, Charles, 1809-1882.

10 May, [1866]

Letter to "My dear Sir";

Down, Bromley, Kent, A.L.S. 3p. Concerning cases of apparent differences in lengths of arms.

Flower, William Henry, 1831-1899

May 18, 1866

7x4-1/2 and

Letter to Sir Cha[rle]s Lyell, bart.;

8x13

London, A.L.S. 4p. Concerning whales. Refers to Cope.

Anthony, John Gould, 1804-1877

June 13, 1866

7x4-1/2

Letter to Lady [Mary Horner] Lyell;

Cambridge, A.L.S. 4p. (see Lyell album, C) Natural history. Friendly letter. Mentions Agassiz. Formerly B D25.L1.

**Edgeworth, Michael Pakenham,
1812-1881**

June 21, 1866

7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 4p. and add. (see Lyell album, C) Botany. Friendly letter. Current events. Formerly B D25.L1.

**Murchison, Roderick Impey, Sir,
1792-1871**

June 24, 1866

7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 4p. and add., end. Enc. Concerning geology. Refers to mammoths Encloses proof sheets of an article.

Darwin, Charles, 1809-1882

20 August, 1866

Letter to Benjamin D[ann] Walsh

**Herschel, John F. W. (John Frederick
William), Sir, 1792-1871**

Oct. 13, 1866

4 1/2" x 7"

Letter to Sir Charles [Lyell];

Non-Carroll Darwin Materials

Collingwood, A.L.S. 4p. Polar climates.

Herschel, John F. W. (John Frederick William), Sir, 1792-1871 Oct. 20, 1866 4 1/2" x 7"

Letter to Sir Charles [Lyell];

A.L.S. 2p. Sends a note for his consideration; glad he is so near publication.

Carruthers, William, 1830-1922 Dec. 5, 1866 7x4-1/2

Letter to Sir Charles Lyell;

British Museum; A.L.S. 2p. (see Lyell album, C) Thanks for publication. Friendly letter. Formerly B D25.L1.

Herschel, John F. W. (John Frederick William), Sir, 1792-1871 Dec. 5, 1866 4 1/2" x 7"

Letter to Sir Ch[arles] Lyell;

Collingwood, A.L.S. 2p. Congratulates him on the first volume [10th ed. of Principles?]. Is pleased with treatment of the earth pillars. Formerly B D25.L1.

Smith, Pleasance Reeve, Lady, 1773-1877 Dec. 11, 1866 3x5

Note to [Mrs. Katherine Murray Horner Lyell];

A.N. 1p. and end. by K. M. Lyell. (see Lyell album, C) Concerning J.E.Smith's letters. Encloses handwriting of Sir J. Smith. Formerly B D25.L1.

Darwin, Charles, 1809-1882 24 December, 1866

Letter to B[enjamin] D[ann] Walsh

Huxley, Thomas Henry, 1825-1895 Jan. 4, 1867 4 1/2" x 7"

Letter to Sir Charles [Lyell];

Jermyn St., A.L.S. 3p. Identification of certain specimens. Mentions Nordenskiöld. Formerly B D25.L1.

Buckland, Francis T. (Francis Trevelyan), 1826-1880 Jan. 21, 1867 9x7

Non-Carroll Darwin Materials

Letter to [Sir Francis] Galton;

A.L.S. 2p. (see Lyell album, C) Asks permission to print a note. Formerly B D25.L1.

Edgeworth, Michael Pakenham, Jan. 24, 1867(?) 7x4-1/2
1812-1881

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 3p. (see Lyell album,C) Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882 23 March, 1867

Letter to B[enjamin] D[ann] Walsh

Sclater, Philip Lutley, 1829-1913 April 15, 1867 7x4-1/2

Letter to Sir Charles [Lyell];

London, A.L.S. 4p. (see Lyell album, C) Concerning birds. Refers to C.L. Bonaparte. Formerly B D25.L1.

Wallace, Alfred Russel, 1823-1913 April 25, 1867 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 4p. Concerning pigs in Malaya.

Darwin, Charles, 1809-1882. May 7, [1867]

Letter to [John Maurice] Herbert

Down; L.S. 3p. no. 327

Darwin, Charles, 1809-1882. May 19, [?1867-1868]

Letter to [G.H.K. Thwaites];

Down, Bromley, Kent, A.L.S. 4p. Got information about elephants from keepers at the Zoological Gardens. Questions about other animals.

Darwin, Charles, 1809-1882. 6 June, [1867]

Letter to "Dear Sir;"

L.S. 2p. Concerning Cypridium and insect feeding behavior.

Lyell, Charles, Sir, 1797-1875 July 6, 1867 7x4-1/2

Non-Carroll Darwin Materials

Letter to Sir Charles Lyell, [bart.];

A.L.S. 4p. Concerning mammals in Australia.

Wallace, Alfred Russel, 1823-1913 July 6, 1867 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 4p. Concerning mammals in Australia.

Flower, William Henry, 1831-1899 July 9, 1867 7x4-1/2

Letter to Sir Cha[rle]s Lyell, bart.;

London, A.L.S. 6p. Concerning brains.

Flower, William Henry, 1831-1899 July 11, 1867 7-1/4x4-1/2

Letter to Sir Charles Lyell, bart.;

London, A.L.S. 3p. Concerning the size of brains in animals.

Darwin, Charles, 1809-1882 9 August, 1867

Letter to B[enjamin] D[ann] Walsh

Darwin, Charles, 1809-1882. Sept. 28, [?1867-1868]

Letter to [G.H.K.] Thwaites;

Down, Bromley, Kent, A.L.S. 2p. Appreciation for something Thwaites has done.

Darwin, Charles, 1809-1882. Oct. 4, [1867] 5" x 8"

Letter to [Sir Charles] Lyell;

Down, Bromley, Kent, L. and A.L.S. 4p. Printed: More letters of C. Darwin, v.1, 299. Formerly B D25.L no. 334

Sclater, Philip Lutley, 1829-1913 Oct. 25, 1867 7x4-1/2

Letter to Sir Charles [Lyell];

London, A.L.S. 4p. (see Lyell album, C) Concerning birds. Formerly B D25.L1.

Darwin, Charles, 1809-1882. Oct. 31, [1867] 5" x 8"

Letter to [Sir Charles] Lyell;

Non-Carroll Darwin Materials

Down, Bromley, Kent, L.S. 4p. Printed almost entirely; More letters of C. Darwin, v.2, 4. Formerly B D25.L no. 336

Darwin, Charles, 1809-1882. 8 Nov., [1867]

Letter to "My dear Sir;" [William Dallas]

A.L.S. 2p.,end. Concerning the preparation of an index.

Wallace, Alfred Russel, 1823-1913 Nov. 13, 1867 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

Newcastle, A.L.S. 6p. Concerning the distribution of man throughout the world. Refers to Agassiz Sclater, and Darwin.

Darwin, Charles, 1809-1882 [1867] Nov. 22

Letter to J.J. Moulinie

Darwin inquires whether the volumes [of Variation] be published separately? What is name and address of publisher in Paris?

Darwin, Charles, 1809-1882 [1867] November 30

Letter to J.J. Moulinie

Darwin says that he is glad that Reinwald does not intend a separate publication of [Variation] volumes. The book had a large sale at [Murray's] auction.

Darwin, Charles, 1809-1882. Dec.7, [1867] 5" x 8"

Letter to [Sir Charles] Lyell;

Down, Bromley, Kent, L.S. 3p. Printed: More letters of C. Darwin, v.1,284. Formerly B D25.L no. 337

Darwin, Charles, 1809-1882. 20 Jan., [1868]

Letter to [John Brodie] Innis;

L.S. 4p. Newsy letter; son George as wrangler; Miss Wedgwood's purchasing a house; school & club accounts.

Darwin, Charles, 1809-1882 27 January, 1868

Letter to B[enjamin] D[ann] Walsh

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882. Jan. 30, [1868]

Letter to [John Maurice] Herbert

Down; L.S. 3p. no. 344

Darwin, Charles, 1809-1882. Feb. 11, 1868

Letter to [Henry Walter] Bates;

Down, Bromley, Kent, A.L.S. 4p. Wants info. on proportion of males & females in animal kingdom. Esp. interested in excess female insects. Mentions Wallace, Bates as President of Entomological Society.

Darwin, Charles, 1809-1882 12 February [1868]

Letter to Frank Buckland

Darwin, Charles, 1809-1882 14 February, 1868

Letter to B[enjamin] D[ann] Walsh

Darwin, Charles, 1809-1882 17 February [1868]

Letter to B[enjamin] D[ann] Walsh

Wallace, Alfred Russel, 1823-1913 Feb. 20, 1868 7x4-1/2

Letter to Sir Charles Lyell, [bart.];

A.L.S. 4p. Friendly letter. Delighted over Darwin's success. Refers to Spencer.

Darwin, Charles, 1809-1882 {1868?} February 22

Letter to [J.J. Moulinie]

Darwin sends corrections of the French edition of Variation.

Darwin, Charles, 1809-1882. 20 March, [1868]

Letter to "My dear Sir;"

A.L.S. 5p. Concerning sexual calls of coleoptera; peculiarities of caterpillar collection.

Darwin, Charles, 1809-1882. [1868] March 21

Letter to J.J. Moulinie

Darwin corrects the spelling of a name in the Variation.

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882	13 April, 1868	
Letter to B[enjamin] D[ann] Walsh		
Darwin, Charles, 1809-1882	7 May [1868]	
Letter to J.J. Weir		
Letter to J.J. Moulinie	[1868] May 16	
Darwin announces that he dispatched four pages to him that very morning, and that he was glad to say that the book was not as large as anticipated. The printer estimated that volume 1 would contain 412 pages and volume 2 460 pages.		
Huxley, Thomas Henry, 1825-1895	May 22, 1868	4-1/2x3-1/2
Letter to Sir Charles Lyell;		
A.L.S. 4p.and add. (see Lyell album, C) Natural history. Formerly B D25.L1.		
Darwin, Charles, 1809-1882	23 May, 1868	
Envelope addressed to G. Cupples		
Darwin, Charles, 1809-1882.	May 25, 1868	
Letter to [Charles Spence Bate, Plymouth];		
Down, Bromley, Kent, A.L.S. 1p. Thanks for "note about the enlarged left arm of Gelarimus?."		
Darwin, Charles, 1809-1882	1868, June 9	
Letter to B. D. Walsh		
Darwin thanks Walsh for the new facts he uncovered about Anthocaris. He also asks him to observe the stridulation apparatus in male and female lamellicorns.		
Darwin, Charles, 1809-1882	15 June [1868]	
Letter to [John B.] Innes		
Darwin, Charles, 1809-1882	18 June [1868?]	
Letter to [J. Jenner Weir?]		
Herschel, John F. W. (John Frederick William), Sir, 1792-1871	June 30, 1868	4 1/2" x 7"

Non-Carroll Darwin Materials

Letter to Sir Charles Lyell;

Collingwood, A.L.S. 4p. Refers to a passage on Swiss glaciers in his Principles of Geology; calls his attention to an article in the Bulletin of the Société Vaudoise on the subject

Herschel, John F. W. (John Frederick William), Sir, 1792-1871 July 13, 1868 4 1/2" x 7"

Letter to Sir Charles Lyell;

Collingwood, A.L.S. 4p. and env., end. Deep-sea temperatures. Extreme density of salt and fresh water; compressibility of water.

Huxley, Thomas Henry, 1825-1895 July 23, 1868 4 1/2" x 7"

Letter to Sir Charles [Lyell]

Jermyn St., A.L.S. 4p. and env., end. Dana's assertion as to chalk in America. Mentions also Ehrenberg and Leidy.

Bailliere, C. E. 1868, July 28

Letter to B. D. Walsh

Bailliere says that he has received no book for Walsh. [In an earlier letter Darwin said he sent a copy of Variation via Bailliere.]

Bentham, George, 1800-1884 Sept. 1, 1868 7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

Southwold, A.L.S. 3p. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882. 2 Sept., 1868

Addressed envelope to J. Jenner Weir, Blackheath;

D. 1p.end.

Darwin, Charles, 1809-1882 2 September, 1868

Letter to [John B.] Innes

Darwin, Charles, 1809-1882 21 September, 1868

Letter to B[enjamin] D[ann] Walsh

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882	18 October, 1868	
Envelope addressed to J. Jenner Weir		
Darwin, Charles, 1809-1882	31 October, 1868	
Letter to B[enjamin] D[ann] Walsh		
Gray, Asa, 1810-1888	Nov. 15, 1868	6x4
Letter to Lady [Mary Horner] Lyell;		
Kew, A.L.S. 2p. (see Lyell album,C) Friendly letter. Mentions Sir Charles. Formerly B D25.L1.		
Darwin, Charles, 1809-1882.	Dec. 4, 1868	
Letter to "My dear Sir;"		
Down, Bromley, Kent, L.S. 2p. Thanks for book, manuscript and note. His son wishes to read the manuscript.		
Wallace, Alfred Russel, 1823-1913	Dec. 5, 1868	7-1/4x4-1/2
Letter to Sir Charles [Lyell, bart.];		
A.L.S. 4p. Concerning solar heat. Refers to Herschel.		
Darwin, Charles, 1809-1882	16 December, 1868	
Letter to [John B.] Innes		
Wallace, Alfred Russel, 1823-1913	Dec. 23, 1868	7-1/4x4-1/2
Letter to Sir Charles Lyell, bart.;		
A.L.S. 4p. Concerning the controversy over Darwin.		
Darwin, Charles, 1809-1882	[1868-1870]	4 1/2" x 8"
Descent of man.		
A. fragment of Dr. of D.S. 1p. and end. Originally B D25.56.		
Lyell, Charles, Sir, 1797-1875	Jan. 5, 1869 [1870?]	7x4-1/2
Letter to Sir Cha[rle]s Lyell, bart., Suffolk;		
A.L.S. 5p.and add.,end. Concerning an article by Darwin on terraces.		

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882	1 February, 1869	
Receipt for school, signed by J.W. Robinson		
Darwin, Charles, 1809-1882	[1869?] Feb. 6	
Letter to My Dear Sir [James Croll]		
It is consoling to Darwin that James Croll gives "a little more age to the world".		
Darwin, Charles, 1809-1882.	Feb. 7, [1869.]	
Letter to [David?] Forbes;		
Down Bromley Kent, L.S. 3p. Discusses book about to go to press (Origin of Species?). Wants to insert in it Forbes' observations on Aymara Indians.		
Darwin, Charles, 1809-1882	18 February [1869?]	
Letter to [Bartholomew James] Sullivan		
Darwin, Charles, 1809-1882	[1869] Feb. 22	
Letter to J.J. Moulinie		
Darwin thanks Moulinie for translating a long paper [by Carriere]. The paper is interesting especially for showing that variation has been different under different conditions.		
Darwin, Charles, 1809-1882	Feb. 23, [1869]	7-1/4x4-1/2
Letter to J.J. Moulinie		
A.L.S. 4p. Concerning the origin of the solar system.		
Wallace, Alfred Russel, 1822-1913	Feb. 25, [1869?]	
Letter to Sir Charles Lyell		
Darwin, Charles, 1809-1882	9 March, 1869	
Envelope addressed to G. Cupples		
Wallace, Alfred Russel, 1823-1913	March 13, 1869	7-1/4x4-1/2
Letter to Sir Charles Lyell, bart.;		
A.L.S. 7p. Concerning glaciers and Moseley.		
Wallace, Alfred Russel, 1823-1913	March 17, 1869	7-1/4x4-1/2

Non-Carroll Darwin Materials

Letter to Sir Charles Lyell, bart.;

A.L.S. 15p. Concerning lake basins caused by glaciers. Refers to Darwin.

Wallace, Alfred Russel, 1823-1913 March 22, 1869 7-1/4x4-1/2

Letter to Sir C[harles] Lyell, bart.;

A.L.S. 3p. Concerning glaciers. Refers to Darwin.

Darwin, Charles, 1809-1882 [1869-71] March 23

Letter to Dear Sir

Darwin declines an offer.

Darwin, Charles, 1809-1882 4 April [1869]

Letter to J. Jenner Weir

Darwin, Charles, 1809-1882 3 April, 1869

Letter to B[enjamin] D[ann] Walsh

Darwin, Charles, 1809-1882 19 April, 1869

Envelope addressed to G. Cupples

Wallace, Alfred Russel, 1823-1913 April 28, 1869 7-1/4x4-1/2

Letter to Sir Charles [Lyell, bart.];

A.L.S. 4p. Concerning natural selection and Darwin.

Darwin, Charles, 1809-1882 30 April, 1869

Envelope addressed to G. Cupples

Scrope, George Poulett, 1797-1876 May 14, 1869 7x4-1/2

Letter to Sir C[harles] Lyell, bart., London;

A.L.S. 5p.and add.,end. Concerning volcanoes.

Darwin, Charles, 1809-1882. May 20, 1869 5" x 8"

Letter to [Sir Charles] Lyell;

Down, Kent, L.S. 4p. Printed: More letters of C. Darwin, v.2, 144. Formerly B D25.L no. 370

Non-Carroll Darwin Materials

Busk, George, 1807-1886 May 21, 1869 7x4-1/2
Letter to Sir Charles [Lyell];

A.L.S. 1p. (see Lyell album,C) Natural history. Formerly B D25.L1.

Darwin, Charles, 1809-1882 8 June, 1869
Envelope addressed to G. Cupples

Carruthers, William, 1830-1922 June 12, 1869 7x4-1/2
Letter to Sir Charles Lyell, Harley Street;

British Museum, A.L.S. 5p. and add., end. (see Lyell album, C) Botany. Refers to Darwin. Formerly B D25.L1.

Wallace, Alfred Russel, 1823-1913 June 16, 1869 7x4-1/2
Letter to Sir Charles [Lyell, bart.];

Concerning erosion. Refers to Geikie.

Darwin, Charles, 1809-1882. Aug. 24, 25, 1869-1871
Letter to ----;

Down, Beckenham, Kent, [ca.] A.L.S. 3p. Thanks for his publications although he cannot read Italian. Will forward one to the Linnean Society.

Bowman, [Sir] W[illiam,] 1816-1892. [1869] Sept. 3
Letter to Charles Darwin

Bowman asks Darwin whether he may come with F. C. Donders for a visit.

Wallace, Alfred Russel, 1822-1913 Sept. 4, [1869] 7x4-1/2
Letter to Sir Charles Lyell;

St. Mark's Crescent, A.L.S. 4p. (see Lyell album, C) Geology. Formerly B D25.L1

Darwin, Charles, 1809-1882. Sept. 6, 1869
Memorandum;

Down, Beckenham, Kent, Copy. 2p. Concerns the relation between pressure of eye muscles and the production of tears. Mentions work of Sir Charles Bell.

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882	16 September, 1869	
Envelope addressed to G. Cupples		
Darwin, Charles, 1809-1882.	9 Nov., [1869-1871]	
Letter to "My dear Sir;"		
A.L.S. 1p.and postscript. Concerning botanical specimens, woodcuts for book.		
Donders, F[ranciscus] C[ornelis,] 1818-1889.	Nov. 12, 1869	
Letter to [Charles Darwin;]		
Utrecht, Copy of L.S. 4p. In French. Thanks for having asked his advice. Honored to have met Darwin. Concerns eyes.		
Darwin, Charles, 1809-1882	12 November, 1869	
Envelope addressed to G. Cupples		
Darwin, Charles, 1809-1882.	Nov. 17, [1869.]	
Letter to [Franciscus Cornelis Donders];		
Down,Beckenham,Kent, Copy of L.S. 2p. Wants to hear the results of Donders' experiments on expression. Enjoyed Donders' visit.		
Letter to		
Busk, George, 1807-1886	Dec. 18, 1869	7x4-1/2
Letter to Sir Charles Lyell;		
A.L.S. 2p. and add., end. (see Lyell album, C) Concerning a fossil. Formerly B D25.L1.		
Scrope, George Poulett, 1797-1876	Dec. 30, 1869	7x4-1/2
Letter to [Sir Charles] Lyell, [bart.];		
A.L.S. 4p.and add.,end. Concerning geology.		
Darwin, Charles, 1809-1882	[1869-70]	
[Charles Robert Darwin] to		
Huxley, Thomas Henry, 1825-1895	Jan.4, 1870	4 1/2" x 7"

Non-Carroll Darwin Materials

Letter to Sir Charles Lyell;

Jermyn St., A.L.S. 4p. and env., end. Permian reptiles of the north. Suggests [Albert] Gaudry for the Wollaston medal.

Darwin, Charles, 1809-1882

17 March [1870]

Letter to [J.Jenner Weir]

**Donders, [Franciscus Cornelis,]
1818-1889.**

March 17, 1870

Letter to [Charles Darwin];

Utrecht, Copy of L.S. 4p. In French. Informs Darwin of death of Donders' wife. Answers questions on eye circulation. Mentions Engelmann & Charles Bell.

Darwin, Charles, 1809-1882

27 April, 1870

Envelope addressed to G. Cupples

Darwin, Charles, 1809-1882.

May 13, 1870

Letter to [Franciscus Cornelis Donders];

Down, Beckenham, Kent, Copy of L.S. 3p. Darwin arranging his notes on Expression. Why do eye muscles contract during screaming? Causes of tears?

**Donders, [Franciscus Cornelis,]
1818-1889.**

May 17, 1870

Letter to [Charles Darwin];

Utrecht, Copy of L.S. 4p. In French. Informs Darwin of death of Donders' daughter. Answers questions on eye circulation. Mentions Engelmann & Charles Bell.

Darwin, Charles, 1809-1882.

May 19, 1870

Letter to [Franciscus Cornelis Donders];

Down, Beckenham, Kent, Copy of L.S. 2p. Expresses sympathy at death of Donder's wife. Thanks him for translations of papers.

**Donders, F[ranciscus Cornelis,]
1818-1889.**

May 27, 1870

Non-Carroll Darwin Materials

Letter to [Charles Darwin];

Utrecht, Copy of L.S. 5p. In French. Concerns causes and effects of pressure on the eyes. Mentions Dr. Moore.

Darwin, Charles, 1809-1882. June 3, 1870

Letter to [Franciscus Cornelis Donders];

Down, Beckenham, Kent, Copy of L.S. 4p. Concerns experiments on the eyes. Causes of tears. Mentions Charles Bell.

Darwin, Charles, 1809-1882. June 21, 1870

Letter to [Franciscus Cornelis Donders];

Down, Beckenham, Kent, Copy of L.S. 3p. Acknowledges receipt of Donders' translated papers. The volume of this information to delay Darwin's proposed essay on Expression. Concerns eyes.

Darwin, Charles, 1809-1882 1870 August 18

Letter to J.J. Moulinie

Darwin, Charles, 1809-1882. Aug. 24, 1870

Letter to G. F. Kittridge, Buffalo, New York;

Down, Beckenham, Kent, A.L.S. 1p.and add. Thanks for offer, but is more interested in natural sciences and will need no information on paleontology.

Darwin, Charles, 1809-1882 27 November, [1870]

Letter to G. Cupples

Darwin, Charles, 1809-1882. Dec. 14, [1870's]

Letter to C[harles?] Lovegrove;

Down, A.L.S. 1p. Thanks for money to the Down Coal & Clothing Club, of which Darwin is the Treasurer.

Darwin, Charles, 1809-1882. [ca. 1871-1875]

Letter to "Dear Sir;"

A.L.S. 2p. Orders an enema.

Non-Carroll Darwin Materials

Bunbury, Charles James Fox, Sir, Jan. 9, 1871 7x4-1/2
1809-1885

Letter to [Charles] Lyell;

Barton, A.L.S. 7p. (see Lyell album, C) Remarks on Lyell's new publication. Formerly B D25.L1.

Darwin, Charles, 1809-1882 13 January, 1871

Letter to [John B.] Innes

Smyth, Warington W. (Warington Wilkinson), 1817-1870 Jan. 21, 1871 7x4-1/2

Letter to Sir Charles [Lyell, bart.];

A.L.S. 3p. Friendly letter.

Darwin, Charles, 1809-1882. Jan. 23, 1871

Letter to [Sir William] Bowman;

Down, Beckenham, Kent, A.L.S. 4p. with 2p. insert in French. Concerns Donders' study of the causes for tears. Asks Bowman if he knows of analogous cases.

Letter to J.J. Moulinie [1871] February 20

Darwin sends corrections for the French edition of the Descent of Man.

Darwin, Charles, 1809-1882 [1871] March 7

Letter to My Dear Sir

Donders, [Franciscus Cornelis,] 1818-1889. March 14, 1871

Letter to [Charles Darwin];

Utrecht, Copy of L.S. 4p. Thanks for book. Mentions Lamarck. His 1847 essay "Harmony of Animal life a manifestation of laws," contained Donders' ideas on evolution.

Darwin, Charles, 1809-1882. March 18, 1871

Letter to [Franciscus Cornelis] Donders;

Non-Carroll Darwin Materials

Down, Beckenham, Kent, Copy of L.S. 4p. Feels Donders' was near to preceding him on subject of Natural Selection. Refers to Sir Charles Bell. Discussion of eyes and expression

Darwin, Charles, 1809-1882 26 March [1871-1875]
Ch[arles Robert] Darwin

Darwin, Charles, 1809-1882. 26 March, [1871-1875]
Letter to "Dear Sir;"

A.L.S. 1p. Encloses £10 for [Wealden?] Exploration Fund.

Darwin, Charles, 1809-1882 15 April, 1871
Envelope addressed to G. Cupples

Lyell, Charles, Sir, 1797-1875 May 3, 1871 7-1/4x4-1/4
Letter to Sir Charles Lyell, bart.;

A.L.S. 3p. Concerning Mattieu Williams' book on solar heat. Refers to Herschel.

Darwin, Charles, 1809-1882 1871 June 8
Letter to [A.-H. Forel?]

Darwin says he trusts the information of Mr. Tristram, who had visited the borders of the Sahara Desert, if not penetrating into the interior.

Darwin, Charles, 1809-1882. June 19, 1871
Letter to [Franciscus Cornelis] Donders;

Down, Beckenham, Kent, Copy of L.S. 3p. Concerns study on eyes & expression. Working on new edition of Origin.

Darwin, Charles, 1809-1882 [1871] June 25
Letter to [J.J. Moulinie]

Darwin says that he fears there is a pirated edition of the Descent of Man, and hopes Moulinie's translation will appear soon. He also says that he is preparing a new [6th] edition of the Origin, and wonders if the publication of the French editio can be delayed to incorporate the corrections.

Darwin, Charles, 1809-1882. July 1, 1871
Letter to ----;

Non-Carroll Darwin Materials

Down, Beckenham, Kent, Xerox of A.L.S. 1p. Cannot attend meeting of the British Association at Edinburgh. From original in Historical Society of Penna.

Darwin, Charles, 1809-1882 [1871] July 12

Letter to J.J. Moulinie

Darwin thanks Moulinie for his willingness to introduce the new corrections into the French edition of the Origin.

Darwin, Charles, 1809-1882. July 14, July 13, [1871]

Letter to [Chauncey Wright];

Down, Beckenham, Kent, A.L.S. 8p. Praises his article highly. Concerning Mivart. Wishes to reprint Wright's article, and asks for a title with Mivart's name in it. Phyllatoxy.

Darwin, Charles, 1809-1882. July 17, [1871]

Letter to [Chauncey Wright];

Down, Beckenham, Kent, A.L.S. 4p. Will sell and distribute his pamphlet when a title is furnished him.

Darwin, Charles, 1809-1882 29 September [1871-75]

Letter to [Masters?]

Darwin, Charles, 1809-1882 1871 October 28

Letter to Mr. [Chauncy] Wright

Darwin says he is glad that Wright has written on phyllotaxy. He is sure that Wright's pamphlet [Darwinism (1871)] will do the cause good. He is also grateful for the kindness shown to his sons in America.

Hooker, Joseph Dalton, Sir, 1817-1911 Nov. 4, 1871 7-1/2x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 3p. (see Lyell album, C) Botany. Formerly B D25.L1.

Darwin, Charles, 1809-1882 1871 Dec. 5

Letter to J.J. Moulinie

Non-Carroll Darwin Materials

Darwin sends the corrections for the new French edition of the Origin.

Darwin, Charles, 1809-1882 1872, Jan. 4

Letter to J.J. Moulinie

Darwin says that he was unaware that the chapter headings [of the Origin] had been printed off [in the French edition]. He suggests that the new part of chapter 7 be printed as an appendix.

Scrope, George Poulett, 1797-1876 Jan. 9, 1872 7x4-1/2

Letter to Sir Cha[rle]s Lyell, bart., London;

Surrey, A.L.S. 4p.and add.,end. Concerning their early days of geology. Concerning his book on volcanoes. Refers to von Buch and Humboldt.

Darwin, Charles, 1809-1882. Jan. 25, 1872

Letter to [Sir William] Bowman;

Down, Beckenham, Kent, L.S. 7p. Mentions Donders' study on tears. Outlines his ideas on the subject. Asks him to read a Ms. chapter in his book, [The Expression of the Emotions in Man and Animals.]

Scrope, George Poulett, 1797-1876 Feb. 9, 1872 7x4-1/2

Letter to Sir Cha[rle]s Lyell, bart, London;

Surrey, A.L.S. 8p.and add.,end. Concerning volcanoes and geology. Refers to Babbage.

Darwin, Charles, 1809-1882. 12 Feb., [1872]

Letter to "My dear Sir;"

A.L.S. 4p,end. Concerning geological specimens. Mentions Ascension Islands, Ehrenberg.

Flower, William Henry, 1831-1899 Feb. 24, 1872 7x4-1/2

Letter to Sir Charles Lyell;

Lincoln's Inn's Fields, A.L.S. 2p. and add., end. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Wallace, Alfred Russel, 1822-1913 March 6, 1872 7x4-1/2

Letter to Sir Charles [Lyell];

Non-Carroll Darwin Materials

Holly House, A.L.S. 3p. (see Lyell album, C) Disagreement with Darwin over origins of sight.
Formerly B D25.L1.

Darwin, Charles, 1809-1882. March, 10, [1872]

Letter to [Sir William] Bowman;

Down, Bromley, Kent, A.L.S. 3p. Darwin to send pages of his ms. for Bowman to make notations
[The Expression of Emotions in Man and Animals?]. Concerns work on the eye.

Darwin, Charles, 1809-1882. March 29, 1872

Letter to [Franciscus Cornelis] Donders;

Down, Beckenham, Kent, Copy of L.S. 4p. Asks several questions about the eyes. Mentions Sir
Charles Bell. Concerns his work on expression.

Darwin, Charles, 1809-1882 1872, April 6

Letter to Mr. [Chauncy] Wright

Darwin says that he is delighted to have the cloud of darkness removed by Wright's paper on
phyllotaxy. He has heard that Mivart will answer Wright's pamphlet.

Darwin, Charles, 1809-1882. April 8, 1872

Letter to [Franciscus Cornelis] Donders;

Down, Beckenham, Kent, Copy of L.S. 2p. Thanks him for info. on functions of the eye. Concerns
his work on expression in man.

**Donders, [Franciscus Cornelis,]
1818-1889.** April 17, 1872

Letter to [Charles Darwin];

Utrecht, Copy of L.S. 4p. In French. Concerns Darwin's work on expression. Mentions Alexander
von Humboldt. Donders to visit Eng. in July.

Darwin, Charles, 1809-1882. April 20, 1872

Letter to [Franciscus Cornelis] Donders;

Down, Beckenham, Kent, Copy of L.S. 3p. Donders to read proofs from Darwins book.

Non-Carroll Darwin Materials

Donders, [Franciscus Cornelis,] 1818-1889.	April 28, 1872	
Letter to [Charles] Darwin;		
Amsterdam, Copy of L.S. 3p. In French. Informing Darwin of his election as a foreign member of the Dutch Royal Academy of Sciences.		
Darwin, Charles, 1809-1882.	April 29, 1872	
Letter to [Franciscus Cornelis] Donders;		
Down, Beckenham, Kent, Copy of L.S. 2p. [Also an L.S. Copy of March 19, 1870,] Acknowledging Darwin's election as a foreign member of the Dutch "Royal Academy of Sciences.		
Darwin, Charles, 1809-1882	29 April, 1872	
Addressed envelope to Dr. Cappel		
Babington, Churchill, 1821-1889	May 14, 1872	7x4-1/2
Letter to Mrs. [K.M.H.] Lyell;		
Bristol, A.L.S. 1p. (see Lyell album, C) Botany. Friendly letter. Formerly B D25.L1.		
Darwin, Charles, 1809-1882.	May 16, [1873]	5" x 8"
Letter to [Sir Charles] Lyell;		
Down, Beckenham, Kent; A.L.S. 2p. Acknowledges gift of the 4th edition of Lyell's Antiquity of man. Formerly B D25.L no. 427		
Wallace, Alfred Russel, 1822-1913	June 2, 1872	7x4-1/2
Letter to Sir Charles Lyell, London;		
Essex, A.L.S. 2p. (see Lyell album, C) Congratulates him on his book. Formerly B D25.L1.		
Darwin, Charles, 1809-1882.	June 3, [1872]	
Letter to [Chauncey Wright];		
Down, Beckenham, Kent, A.L.S. 4p. Fixity of species. Refers to Mivart, and evolution. Language and will of man needs study.		
Flower, William Henry, 1831-1899	June 14, 1872	7-1/4x4-1/2

Non-Carroll Darwin Materials

Letter to Sir Charles [Lyell, bart.];

London, A.L.S. 3p.and end. Concerning fossils.

Darwin, Charles, 1809-1882. June 17, 1872

Letter to [Franciscus Cornelis] Donders;

Down, Beckenham, Kent, Copy of L.S. 3p. Concerns his book Expression of Emotions. Mentions William Bowman.

Donders, [Franciscus Cornelis,] July 14, 1872

1818-1889.

Letter to [Charles Darwin];

Utrecht, Copy of L.S. 3p. To visit Darwin. Mentions H. Snellen and William Bowman.

Darwin, Charles, 1809-1882 July 16, 1872

Letter to "My dear Fox"

Darwin reports that he is correcting proofs for Expression. He also reports some family news.

Bowman, [Sir] W[illiam,] 1816-1892. July 24, 1872

Letter to [Charles] Darwin;

A.L.S. 3p. Informs Darwin that Donders would like to see him the next week.

Darwin, Charles, 1809-1882 July 30 [1872-1874]

Letter to Dear Sir

Darwin thanks the recipient for the information about the eye color of his shepherd dogs.

Bowman, [Sir] W[illiam,] 1816-1892. July 31, 1872

Letter to [Charles] Darwin;

A.L.S. 3p. Informs Darwin that he and Donders will come by train on Wednesday.

Darwin, Charles, 1809-1882. Aug. 31, [1872]

Letter to [Chauncey Wright];

A.L.S. 3p. An invitation to visit. 2-4 pm "my bad time when my health fails me."

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882.

Sept. 6, [1872]

Letter to [Chauncey] Wright;

Down, Beckenham, Kent, A.L.S. 1p. Presents two volume work by Houzeau which he thinks Wright will find worth while.

**Bunbury, Charles James Fox, Sir,
1809-1885**

Sept. 9, 16, 1872

7x4-1/2

Letter to [Charles] Lyell;

Barton, A.L.S. 10p. (see Lyell album, C) Concerning genius being hereditary. Formerly B D25.L1.

Darwin, Charles, 1809-1882

November 2, [1872]

Letter to [W.W. Baxter]

Darwin asks about possible animal substances in samples of Belladonna and Digitalis.

Baker, John Gilbert, 1834-1920

Nov. 10, 1872

7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

Richmond, A.L.S. 3p. (see Lyell album, C) Concerning new edition of her book. Formerly B D25.L1.

Darwin, Charles, 1809-1882

Nov. 10 [1872-74]

Letter to [W.W. Baxter?]

Darwin say he would greatly prefer an enema with a shorter nozzle but a larger diameter.

Bowman, [Sir] W[illiam,] 1816-1892.

Nov. 16, 1872

Letter to [Charles] Darwin;

A.L.S. 4p. Thanks Darwin for the new book he sent him. Tells him about the celebration in Utrecht of Donders' 25th year as professor.

Baker, John Gilbert, 1834-1920

Nov. 16, 1872

7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

Richmond, A.L.S. 2p. (see Lyell album, C) Concerning a new edition of her book. Formerly B D25.L1.

Wallace, Alfred Russel, 1823-1913

Nov. 21, 1872

7x4-1/2

Non-Carroll Darwin Materials

Letter to Sir C[harles] Lyell, bart;

Essex, A.L.S. 4p. Friendly letter. Refers to Owen.

Gray, Asa, 1810-1888

Dec. 3, 1872

6x4

Letter to [Mrs. K.M.H. Lyell];

Cambridge, A.L.S. 3p., end. (see Lyell album,C) Friendly letter. Formerly B D25.L1.

Carpenter, William Benjamin, 1813-1885

Dec. 12, 1872

7-1/2x4-1/2

Letter to Sir Charles Lyell;

A.L.S. 4p. (see Lyell album, C) Ocean currents. Formerly B D25.L1.

Darwin, Charles, 1809-1882.

Dec. 21, 1872

Letter to [Franciscus Cornelis] Donders;

Down, Beckenham, Kent, Copy of L.S. 4p. Refers to his book on Expression. Concerns the observations on the eyes of blind children sent to him by head of Institution for the Blind.

**Donders, [Franciscus Cornelis,]
1818-1889.**

Dec. 24, 1872

Letter to [Charles] Darwin;

Utrecht, Copy of L.S. 3p. In French. Thanks for the book. Response to Darwin's question on eyes of the blind, Mentions Bowman.

Busk, George, 1807-1886

Jan. 17, 1873

10-1/2x8

Description of a fossil man;

A.D. 6p. Enclosed originally in letter from Busk to Lyell; Jan. 17, 1873.

Busk, George, 1807-1886

Jan. 17, 1873

7x4-1/2

Letter to Sir Charles [Lyell, bart.];

A.L.S. 3p. Enc. Concerning fossils. For enclosure, see: Busk. Description of a fossil man; [Jan. 17, 1873].

Judd, John W. (John Wesley), 1840-1916

Jan. 18, 1873

7x4-1/2

Letter to Sir Charles Lyell;

Non-Carroll Darwin Materials

A.L.S. 3p. Concerning the geology of volcanic regions.

Busk, George, 1807-1886

Feb. 8, 1873

7x4-1/2

Letter to Sir Charles [Lyell];

A.L.S. 7p. (see Lyell album,C Concerning fossil bones. Formerly B D25.L1.

Darwin, Charles, 1809-1882.

Feb. 19, 1873

Letter to "Dear Sir;"

Down, Beckenham, Kent, Xerox copy of L.S. 3p. Concerning Dionea,"the most wonderful plant in the world." From original in Historical Society of Delaware.

Darwin, Charles, 1809-1882.

May 7, 1873

Letter to "Dear Sir;"

Down, Beckenham, Kent, Xerox of A.L.S. 2p. Concerning the leaves of the Dionea. From original in Historical Society of Delaware.

Flower, William Henry, 1831-1899

May 31, 1873

7-1/4x4-1/2

Letter to Sir Charles [Lyell, bart.];

London, A.L.S. 2p. Friendly letter.

Darwin, Charles, 1809-1882

June 2, 1873

Letter to Anton Dohun

Darwin thanks Dohrn for the review of the Expression of emotions in man and animals. He finds his remarks on the necessity of tracing the development of functions novel and valuable.

Wallace, Alfred Russel, 1823-1913

June 15, 1873

7x4-1/2

Letter to Sir Charles [Lyell, bart.];

Essex, A.L.S. 2p. Friendly letter.

Brandis, Dietrich, Sir, 1824-1907

June 21, 1873

6x4

Letter to Mrs. [K.M.H.] Lyell, Regents Park Road;

Non-Carroll Darwin Materials

Kensington, A.L.S. 3p. and add. (see Lyell album, C) Friendly letter. Refers to Sir Charles. Formerly B D25.L1.

Flower, William Henry, 1831-1899 July 8, 1873 7-1/4x4-1/2

Letter to Sir Charles [Lyell, bart.];

A.L.S. 2p. Concerning natural history.

Smyth, Warington W. (Warington Wilkinson), 1817-1870 Aug. 8, 1873 7x4-1/4

Letter to Sir Charles [Lyell, bart.];

Marazion, A.L.S. 4p. Friendly letter. Sympathy for death Lady Lyell.

Darwin, Charles, 1809-1882. Sept. 4, 1873

Letter to ----;

Down, Beckenham, Kent, Xerox of A.L.S. 3p. Needs some salts and wishes him to acquire them for him. Presented by Baird Tatlock (London) Ltd.

Hooker, Joseph Dalton, Sir, 1817-1911 Sept. 10, 1873 7-1/2x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 4p. (see Lyell album, C) Friendly letter. Botany. Mentions Huxley. Formerly B D25.L1.

Darwin, Charles, 1809-1882. Sept. 24, 1873

Letter to [Sir Charles] Lyell;

Down, Beckenham, Kent, L.S. 4p. Comments on apple seedlings; does not believe that inheritance is so general with apple trees. Formerly B D25.L no. 432

Flower, William Henry, 1831-1899 Nov. 2, 1873 7x4-1/2

Letter to Sir Charles Lyell, bart.;

A.L.S. 2p. and add., end. Concerning fossils.

Huxley, Thomas Henry, 1825-1895 Nov. 9, 1873 4 1/2" x 7"

Letter to Sir Charles Lyell;

[London] A.L.S. 4p. and env., end. Coal. Mistaken identity of a certain specimen.

Non-Carroll Darwin Materials

Bowman, [Sir] W[illiam,] 1816-1892. Nov. 26, 1873

Letter to [Charles] Darwin;

A.L.S. 4p. Concerns the effects of hypermetropia. Quotes from Donders' book on Ancetropia.

Darwin, Charles, 1809-1882 3 December, 1873

Letter to T.L. Brunton

Darwin, Charles, 1809-1882. 3 Dec., 1873

Letter to ---;

A.L.S. 4p. Concerning plant nutrition.

Mead, Frank J., 1853-1908 Dec. 5, 1873 8-1/2x5-1/2

Letter to [Ignatius] Donnelly;

Minneapolis, Xerox copy of A.L.S. 6p. (see Darwin papers.) His talk on "the oil and water Darwinism and Christianity" fight. Is all for Darwin and science. Formerly B D25.169

Judd, John W. (John Wesley), 1840-1916 Dec. 18, 1873 7x4-1/2

Letter to Sir Charles Lyell;

A.L.S. 4p. Concerning the geology of volcanic regions.

Darwin, Charles, 1809-1882 1 January [1874]

Ch[arles Robert] Darwin to

Darwin, Charles, 1809-1882. 1 Jan., 1874

Letter to ---;

A.L.S. 1p.and end. Acknowledges election as honorary member.

Carpenter, William Benjamin, 1813-1885 Feb. 1, 1874 6x4

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 2p. (see Lyell album, C) Asks for loan of a book. Formerly B D25.L1.

Darwin, Charles, 1809-1882 5 February, 1874

Envelope addressed to G. Cupples

Non-Carroll Darwin Materials

Envelope addressed to G. Cupples	6 February, 1874
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Darwin, Charles, 1809-1882. Addressed envelope to G. Cupples, Fifeshire; A.D. 1p.end.	7 Feb., 1874
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Darwin, Charles, 1809-1882. Addressed envelope to G. Cupples, Fifeshire; D. 1p., end.	8 Feb., 1874
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Darwin, Charles, 1809-1882 Envelope addressed to G. Cupples	24 February, 1874
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Darwin, Charles, 1809-1882. Addressed envelope to G. Cupples, Fifeshire; A.D. 1p.end.	26 Feb., 1874
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Darwin, Charles, 1809-1882 Letter to Sir Lauder Brunton	25 May, [1874]
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Darwin, Ch[arles], 1808-1882. Letter to Dr. [George Edward] Dobson, [Southampton]; Down, Beckenham, Kent, A.L.S. 1p.add.,envelope Thanks for papers. Has corrected his "blunders in a new Edit. of the Descent." Comments on Gekkos and Hyloe(American tree-frogs).	May 25, [1874]
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Darwin, Charles,1809-1882. Letter to [Sir Charles] Lyell; Down, Beckenham, Kent, A.L.S. 1p. Admires the wisdom of Lyell's bequest [to Geol. soc. ?]; would follow his steps if he did not have so many sons. Formerly B D25.L no. 442	May 31, [1874]
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Non-Carroll Darwin Materials

Scrope, George Poulett, 1797-1876 May 21, 1874 7x4-1/2

Letter to Sir Charles Lyell, bart., London;

A.L.S. 7p.and add.,end. Recommendation of a geologist. Concerning Judd and volcanoes.
Concerning a study of Icelandic volcanoes.

Darwin, Charles,1809-1882. May 31, [1874] 5" x 8"

Letter to [Sir Charles] Lyell;

Down, Beckenham, Kent, A.L.S. 1p. Admires the wisdom of Lyell's bequest [to Geol. soc. ?]; would follow his steps if he did not have so many sons. Formerly B D25.L no. 442

Darwin, Charles, 1809-1882 June 5, 1874 8x5

Letter to Ignatius Donnelly, Minnesota, U.
States;

[Down, Beckenham, Kent, Xerox of A.L.S.] 2p.and add. (see Darwin papers.) Doubts he will ever be able to study the intellect of animals. Would like to visit the U.S. "now so great & destined to be so much greater," but his health will not allow. Formerly B D25.167.

Darwin, Charles, 1809-1882 [1874-1881] June 9

Letter to [William C.] Marshall

Reagarding the activities of earth worms.

Darwin, Charles, 1809-1882. 27 June, [1874-1881]

Letter to [R.G.J.] Romanes;

A.L.S. 4p. Friendly letter. States plans; praises Lake district and Graham's "Creed of Science." [215: G76].

Darwin, Charles, 1809-1882 June 30, 1874 8x5

Letter to ----;

Down, Beckenham, Kent, Xerox of L.S. 2p. (see Darwin papers. From original in possession of the College of Physicians of Philadelphia.) Thanks the correspondent for sending a copy of his essay. Discusses the possibility of an inherited effect of a natural circumcision. Concerns Brown-Sequard's experiments on inheritance of acquired characteristics. Formerly B D25.197_.

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882. July 7, 1874

Letter to [Franciscus Cornelis] Donders;

Down, Beckenham, Kent, Copy of L.S. 4p. Effects of and uses of Atropine on eye? Refers to the effect of phosphate of ammonia on Drosera.

Moggridge, John Traherne, 1842-1874 July 9, 1874 5-1/2x3-1/2

Letter to Mrs. [K.M.H.] Lyell;

Surrey, A.L.S. 2p. and add. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882. July 15, 1874

Letter to [Franciscus Cornelis] Donders;

Down, Beckenham, Kent, Copy of L.S. 3p. Concerns effects of atropine, Drosera. Mentions Englemann.

Darwin, Charles, 1809-1882. July 28, [1874.]

Letter to [John] Price;

Wotton, Surrey, A.L.S. 2p. Thanks for Utricularia plant. Asks to care for and send plants to Down.

Darwin, Charles, 1809-1882. 1 Aug., [1874-1881]

Letter to "Dear Sir;"

A.L.S. 2p. Thanks; sends work "of hardly any value." Mentions "present advances and interest in Philology."

Darwin, Charles, 1809-1882. Sept. 3, [1874]

Letter to [Sir Charles] Lyell;

Down, Beckenham, Kent, A.L.S. 4p. Printed: More letters of C. Darwin, v.2, 237. Formerly B D25.L no. 448

Darwin, Charles, 1809-1882. Sept. 21, Jan. 29, 1874, 1875

Letter to [Chauncey] Wright;

Down, Beckenham, Kent, L.S. with P.S. in Darwin's hand. 4p. Concerning body language. Thinks plants "are more wonderful than animals!" Sends letter through Asa Gray since it was returned.

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882	[1877] September 27	
Letter to [William C.] Marshall		
Darwin, Charles, 1809-1882	1874, Oct. 15	
Letter to [Forel]		
Discusses Forel's writing on ant behaviors.		
Judd, John W. (John Wesley), 1840-1916	Nov. 12, 1874	7x4-1/2
Letter to Sir Charles Lyell, [bart.];		
A.L.S. 4p. Concerning volcanoes.		
Darwin, Charles, 1809-1882	[1874-1881]	
Letter to [Sir Lauder Brunton]		
Darwin, Charles, 1809-1882	January 6, [1875]	
Letter to Prof. [Daniel] Oliver		
Darwin's observations [for Insectivorous plants] seem to indicate that the same species of <i>Genlisea</i> may bear two kinds of bladders, so he asks for rhizomes and leaves of three species to test this possibility.		
Bentham, George, 1800-1884	Feb. 23, 1875	7x4-1/2
Letter to Mrs. [K.M.H.] Lyell;		
Wilton Place, S.W., A.L.S. 3p. (see Lyell album, C) Condolences on death of Sir Charles. Formerly B D25.L1.		
Darwin, Charles, 1809-1882	3 March, 1875	
Envelope addressed to G. Cupples		
Bentham, George, 1800-1884	March 9, 1875	7x4-1/2
Letter to Mrs. [K.M.H.] Lyell;		
Wilton Place, S.W., A.L.S. 1p. (see Lyell album, C) Asks for an appointment. Formerly B D25.L1.		
Darwin, Charles, 1809-1882.	March 13, 1875	
Letter to [Chauncey] Wright;		

Non-Carroll Darwin Materials

Down, Beckenham, Kent, L.S. 4p. Is busily preparing a book for the press. Use of eyebrows; relates story from Beagle days where sweat inflamed the eyes, and the native's attempt to cure the inflammation.

Huxley, Thomas Henry, 1825-1895 April 25, 187[5?] 7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 4p. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882 [10 July, 1875]

Envelope addressed to J. Jenner Weir

Darwin, Ch[arles Robert], 1809-1882. Feb. 6, 1876

Letter to "Dear Sir;"

Down, Beckenham, Kent, L.S. 2p. Asked Murray to send him "cliches" but adds that he will not publish on orchids for about a year.

Darwin, Charles, 1809-1882. 14 April, 1876

Letter to [Robert Bell];

Down, Beckenham, Kent, A.L.S. 3p. Discovery of the skeleton most likely to be an extinct animal. Refers to an unidentified man who visited him. Compliments Bell, hopes that the "Geology continues to flourish in Canada."

Darwin, Charles, 1809-1882. June 1, [1876?.]

Letter to [Sir William] Bowman;

Wedgwood's Hopedean, A.L.S. 3p. Unable to attend Donders's lecture in London. Friendly letter.

Darwin, Charles, 1809-1882 June 19, 1876

Letter to [Forel]

Darwin poses the question of how the Coleoptera come to inhabit the new nests of a ant colony? He suggest the theory of Alfred Wallace, namely that the Coleoptera eggs are attached to the wings of female ants.

Darwin, Charles, 1809-1882. 1 July, 1876

Letter to [John Scott];

Non-Carroll Darwin Materials

A.L.S. 4p. Concerning the poppy and plant breeding.

Bentham, George, 1800-1884	Aug. 2, 1876	7x4-1/2
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Letter to Mrs. [K.M.H.] Lyell;

Wilton Place, S.W., A.L.S. 3p. (see Lyell album C) Congratulations on her good fortune. Concerning Hooker. Formerly B D25.L1.

Hooker, Joseph Dalton, Sir, 1817-1911	Aug. 11, 1876	8x5
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Letter to Mrs. [K.M.H.] Lyell;

Kew, A.L.S. 4p. (see Lyell album, C) Friendly letter. Botany. Formerly B D25.L1.

Darwin, Charles, 1809-1882.	6 Oct., [18]76	
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Letter to [George Cross];

ALS 4p. Concerning plant specimens. (Prev. cataloged as CRD to ----)

Darwin, Charles, 1809-1882	Feb. 13, 1877	6 1/2" x 8"
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[Scientific paper, scrap];

A.D.S. portion of 1p. This was given as an autograph item, and the signature only is 1877. The rest of the item is ca. 1856-1858. Formerly B D25.37.

Darwin, Charles, 1809-1882.	May 2, [1877]	
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Note to [Sir William Henry] Flower,
London;

Down, Beckenham, Kent, A.N.S. 1p. "The pigs-foot has been dispatched today per rail."

Flower, William Henry, 1831-1899	May 3, 1877	7 1/4" x 4 1/2"
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Letter to [Charles Robert] Darwin;

Royal College of Surgeons, A.L.S. 4p. Comments on pig's foot sent by Darwin (from O. Zacharias).
B D25.x1 no. 511

Flower, William Henry, 1831-1899	May 17, 1877	7 1/4" x 4 1/2"
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Letter to [Charles Robert Darwin];

Royal College of Surgeons, A.L.S. 3p.,il. More about the pig's foot. B D25.x2 no. 512

Non-Carroll Darwin Materials

Bentham, George, 1800-1884

June 2, 1877

7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

Wilton Place, S.W., A.L.S. 3p. Enc. wanting. (see Lyell album, C) Returns botanical tables and refuses to sponsor them. Formerly B D25.L1.

Darwin, Charles, 1809-1882

1 August [1877]

Letter to D. W. Whitney

Darwin, Charles, 1809-1882.

Aug. 1, 1877

Letter to "Dear Sir;"

Down, Beckenham, Kent, A.L.S. 1p. Thanking him for the information on Collomia flowers.

Darwin, Charles, 1809-1882

[1877] Aug. 23

Letter to [R.I.] Lynch

Asks about sleep movements of Erythrina crista-galli. Comments on movements of Averrhoa.

Darwin, Charles, 1809-1882.

Sept. 14, 1877

Letter to [R. Irwin Lynch?];

Down, Beckenham, Kent, L.S. 2p. Concerns the movement of plants after being touched. Asks Lynch to conduct experiment on Euphorbia. Mentions Dyer.

Darwin, Charles, 1809-1882

[1877?] Sept. 27

Letter to [William C.] Marshall

Thanks W.C.Marshall for the plant. Mentions "your new room" at Down.

Darwin, Charles, 1809-1882.

Dec.27, 1877

Letter to [William Calder] Marshall;

Down, Beckenham, Kent, L.S. 3p. Concerns new construction at Darwin's house. Sending check to Mr. Deard

Darwin, Charles, 1809-1882

December, 1877

Letter to the Editor of the Sedalia Democrat
[newspaper clipping]

Non-Carroll Darwin Materials

Darwin's letter to the editor describes a variation in the feathers of young goslings born in the spring of 1874.

Darwin, Charles, 1809-1882

Photograph of a goose with a variation in the condition of its feathers

Photograph of a goose, exhibiting a variation in its feathers.

Darwin, Ch[arles Robert], 1809-1882. March 28, 1878

Letter to ----;

Down, Beckenham, Kent, A.L.S. 1p. Thinks the brain may be affected by diseases, but hardly by milk. His interest in plant physiology.

Darwin, Ch[arles], 1808-1882. April 12, 1878

Letter to Dr. [George Edward] Dobson, Southampton;

Down, Beckenham, Kent, A.L.S. 2p.add.,envelope Thanks for the fuchsia. Concerns bats in Galápagos; he did not find them there.

Baird, Spencer Fullerton, 1823-1887 July 16, 1878

Letter to R.A. Blair

Acknowledgment of the receipt of Blair's request for the delivery of a package of goose wings to Charles Darwin, a request they intended to honor.

Darwin, Charles, 1809-1882 Aug. 16, [1878] 8x5

Letter to [Hugo de Vries];

Abingen Hall, Photo.of A.L.S. 3p. With De Vries material about his visit to Darwin, in Dutch, 10p. (from originals in Bibliotheek, Hugo de Vries Laboratorium, University of Amsterdam.) Concerning corrugated roots of parsnips and young wheat. Formerly B D25.152

Darwin, Charles, 1809-1882 [1878] Sept. 21

Letter to Prof. William Crawford Williamson

Non-Carroll Darwin Materials

Darwin thanks Prof. Williamson for the plant specimens, and asks about sowing *Drosera* seeds.

Flower, William Henry, 1831-1899 Oct. 15, 1878

Letter to R.A. Flower

Flower reports the receipt of the box contain the wings of the geese.

Darwin, Charles, 1809-1882. Nov. 5, 1878

Letter to [Bartholomew James] Sulivan;

Down, Beckenham, Kent, A.L.S. 3p. Account of Fuegians interesting. Thanks for news of old Beaglers. Working on "vegetable physiological questions." William touring U.S. Mentions Brassey & Sunbeam.

Darwin, Charles, 1809-1882. Dec. 4, 1878

Letter to [Richard Irwin Lynch?];

Down, Beckenham, Kent, A.L.S. 2p. Concerns a testimonial Darwin has written about Lynch. Notes Lynch's powers of observation and description.

Darwin, Charles, 1809-1882. 16 Feb., 1879

Letter to "Dear Sir;"

A.L.S. 1p. Acknowledgement of birthday greetings.

Darwin, Charles, 1809-1882. 2 April, [18]79

Letter to [Grant Allen];

Down, Beckenham, Kent, ALS 3p. Comments on Allen's article in the Fortnightly [Review]. Speculates on relationship between hair and thickness of skin on minkeys and other animals. Encloses edition of *Descent*. Emphasizes continuing belief in Sexual Selection.

Darwin, Charles, 1809-1882 16 February, 1879

Charles Darwin to

Blair, R.A. 1879, May 19

Letter to Dear Sir

Blair draws the recipient's attention to an article he published in December 1877.

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882 Letter to Mr. [Victor] Marshall	25 August, 1879
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Darwin, Charles, 1809-1882 Letter to Mr. [Victor] Marshall	14 September, 1879
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Darwin, Charles, 1809-1882. Letter to "My Dear Sir;"	Nov. 11, 1879
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Down, Beckenham, Kent, A.L.S. 1p. Sends cheque for the Down Coal and Clothing Club from the entire family.

Darwin, Charles, 1809-1882 Charles [Robert] Darwin to	3 August, 1880
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Darwin, Charles, 1809-1882. Letter to "Dear Sir;"	3 Aug., 1880
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A.L.S. 1p. Thanks for note; awaiting Francis.

Darwin, Charles, 1809-1882. Letter to ----;	Nov. 5, 1880
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Down Beckenham, Kent, Xerox of A.L.S. 1p. Refers to his Descent of Man For answers to questions on marriage. Monkeys. From originals in Historical Society of Penna.

Darwin, Charles, 1809-1882. Letter to W[illiam Erasmus Darwin];	Dec. 17, [1880]
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Down, Beckenham, Kent, A.L.S. 4p. Thanks for the worm castings, wants more info. on where they came from. Mentions Sara.

Darwin, Charles, 1809-1882. Letter to [John Maurice] Herbert	Dec. 25, [1880]
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Down; A.L.S. 4p. no. 577

Goodwin, Albert, 1845-1932	1880
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Non-Carroll Darwin Materials

Goodwin, Albert. Sketches of Charles Darwin

Darwin, Charles, 1809-1882 Lubbock, John, Sir, 1834-1913 Jan. 4, 1881 13-1/2x8-1/2

Petition for help for Alfred R. Wallace;

D.S.: Charles Darwin, W.Spottiswoode, Geo.J. Allman, W.H.Flower, Aberdare, Andrew Ramsay, Albert Günther, John Lubbock, P.L.Sclater, H.W. Bates, Jos.D.Hooker, T.H.Huxley, 1p. Incomplete. (see Darwin papers.) B D25.189

Darwin, Charles, 1809-1882 7 January, 1881
Charles Darwin to

Darwin, Charles, 1809-1882. 7 Jan., 1881
Letter to "Dear Madame;"

A.L.S. 1p. Thanks for present.

Moseley, H. N. (Henry Nottidge), 1844-1891 Jan. 23, 1881 7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

University of London, A.L.S. 2p. (see Lyell album, C) Botany. Formerly B D25.L1.

Moseley, H. N. (Henry Nottidge), 1844-1891 Feb. 5, 1881 7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

Oxford, A.L.S. 4p. (see Lyell album, C) Botany. Friendly letter. Formerly B D25.L1.

Bentham, George, 1800-1884 March 24, 1881 7x4-1/2
Letter to Mrs. [K.M.H.] Lyell;

Wilton Place, S.W., A.L.S. 2p. (see Lyell album, C) Concerning Thomas and James Drummond. Formerly B D25.L1.

Darwin, Charles, 1809-1882. June 26, 1881
Postcard to [Ernst Heinrich] Haeckel, Jena;

Non-Carroll Darwin Materials

Penrith, A.D.S. postcard. Thanks for microscope. Mentions [Ernst Carl?] Abbe.

Darwin, Charles, 1809-1882 27 June, [1881]

Letter to [G.J.] Romanes

Gray, Asa, 1810-1888 Oct. 9, 1881 6x4

Letter to Mrs. [K.M.H.] Lyell;

Kew, A.L.S. 3p. (see Lyell album,C) Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882. Oct. 12, 1881

Letter to Robert Lawson Tait;

Down, Beckenham, Kent, A.L.S. 3p.and env. Cannot oblige; is old and must work for months or years before writing and then "can only give facts & draw inferences." Jealous of Huxley's mind "crammed with new ideas."

Darwin, Charles, 1809-1882. 3 Nov., 1881

Letter to "Dear Sir; [F.B. Zinke]"

A.L.S. 4p. Concerning size of arctic mammals & burial of celtic remains by worms.

Darwin, Charles, 1809-1882 3 November, 1881

Charles Darwin to

Darwin, Charles, 1809-1882. 9 Dec., 1881

Letter to "Dear Sir;"

A.L.S. 1p. Concerning earth-worms.

Darwin, Charles, 1809-1882 March 2, 1882 8x5

Letter to [Ignatius Donnelly];

Down, Beckenham, Kent, Xerox of A.L.S. 1p. (see Darwin papers.) Thanks for his publication; he will read it "in a very sceptical spirit." B D25.168

Thiselton-Dyer, William T. (William Turner), 1843-1928 March 14, 1882 7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

Non-Carroll Darwin Materials

Kew, A.L.S. 3p. (see Lyell album, C) Botany. Formerly B D25.L1.

Darwin, Charles, 1809-1882 April 26, 1882

Miscellaneous notes pertaining to the funeral;

Broadsides and Ds. 11 items. Various sizes. (see Darwin Papers.) Contains four broadsides and 7 manuscript items. B D25.120

Darwin to Herbert April 27, 1882

Letter from Mrs. Emma Darwin to Mr. Herbert, in regard to her husband's death;

A.L.S. 4p. in B D25.h

Darwin, Charles, 1809-1882. 26 April, 1882

Funeral cards, one for Canon Farrar;

D.s. Two bordered cards; one with outline of casket and names of pallbearers.

Darwin, Emma 27 Ap[ril], 1882

Letter to J.M. Herberg

Darwin, Emma Wedgwood, 1808-1896 May 3, 1882 7x4-1/2

Letter to [Lady Georgiana Rosetta Smyth]
Flower, London;

Down, Beckenham, A.L.S. 3p.and add., with add.to W.H.Flower in hand of C.Darwin. (see Darwin papers.) Thanks for sympathy on Darwin's death. B D25.185

Thiselton-Dyer, William T. (William Turner), 1843-1928 June 12, 1882 7x4-1/2

Letter to Mrs. [K.M.H.] Lyell;

A.L.S. 2p. (see Lyell album, C) Botany. Formerly B D25.L1.

Darwin, Charles,1809-1882. Nov. 21, 1882

Darwin to [John Maurice] Herbert

Down; L.S. 4p. no. 425

Non-Carroll Darwin Materials

Forman, H. Buxton (Harry Buxton), 1842-1917	Oct. 24, 1882	6x4
Darwin's religion;		
A.D.S. 2p. (see Darwin papers.) Concerning the statement at Darwin believed in "no revelation of any sort." Suggests they check Darwin's letter to Haeckel before additional words are written on the subject. B D25.176		
Gray, Asa, 1810-1888	Nov. 15, 1883	7x4-1/2
Letter to Mrs. [K.M.H.] Lyell;		
Cambridge, A.L.S. 4p. (see Lyell album C) Thanks for book. Friendly letter. Mentions Bentham and Hooker. Formerly B D25.L1.		
Flower, William Henry, 1831-1899	May 5, 1884	7x4-1/2
Letter to Mrs. [K.M.H.] Lyell;		
British Museum, A.L.S. 3p. (see Lyell album, C) Friendly letter. Refuses to purchase specimens from her friend. Formerly B D25.L1.		
Carpenter, William Benjamin, 1813-1885	May 6, 1884	7x4-1/2
Letter to Mrs. [K.M.H.] Lyell;		
A.L.S. 2p. (see Lyell album, C) Concerning an election of members. Formerly B D25.L1.		
Darwin, Emma	[1885]	
Letter to My dear Mary		
Sclater, Philip Lutley, 1829-1913	Jan. 24, 1887	7x4-1/2
Letter to Mrs. [K.M.H.] Lyell;		
A.L.S. 3p. (see Lyell Album, C) Concerning hiring a boy. Formerly B D25.L1.		
Babington, Churchill, 1821-1889	March 11, 1887	6x4
Letter to Mrs. [K.M.H.] Lyell;		
Suffolk, A.L.S. 2p. (see Lyell album,C) Presents volume. Formerly B D25.L1.		
Darwin, Charles,1809-1882.	Oct. 28, 1871	

Non-Carroll Darwin Materials

Letter to [Chauncey] Wright;

Down, Beckenham, Kent, L.S. 4p. His paper on phyllotaxy. Darwin's sons have returned and enjoyed America, especially Cambridge.

Darwin, Emma 29 December, 1887
Envelope addressed to Mrs. Cupples

Rivoire, Mr. 1893 June 7
Letter to the Directeur de la Bibliotheque
Publique de Geneva

Darwin, Francis, Sir, 1848-1925 1893 October 29
Letter to Professor Errera

Francis apologizes to Professor Errera for having written and misspelled the Professor's name in pencil "that won't rub out" on the letters from his father (Charles Robert Darwin). He explains the necessity of adding the recipients' names to all the letters, since there were "hundreds addressed to 'Dear Sir'".

Brandis, Dietrich, Sir, 1824-1907 Jan. 22, 1896 8x5-1/2
Letter to Mrs. [K.M.H.] Lyell;

Bonn, A.L.S. 4p. (see Lyell album, C Friendly letter. Formerly B D25.L1.

Bryce, James Bryce, Viscount, 1838-1922 February 12, 1909
Personal reminiscences of Charles Darwin
and of the reception of the "Origin of
species".

Commemoration of the centenary of Charles Darwin's birth and the fiftieth anniversary of the publication of the "Origin of species" (November 24, 1859). 21p. sq.Q. [1909]. Corrected manuscript. (Typewritten with manuscript corrections). Read before the American philosophical society, April 23, 1909. Printed in Proceedings, v.48, p.iii. Formerly B D25 b

Undated

Brandis, Dietrich, Sir, 1824-1907 Jan. 10, undated 5-1/2x3-1/2
Letter to Mrs. [K.M.H.] Lyell;

Non-Carroll Darwin Materials

Richmond, A.L.S. 4p. (see Lyell Album, C) Friendly letter. Botany. Formerly B D25.L1.

Darwin, Charles, 1809-1882

Jan. 20, undated

Letter to Bernard Studer

Darwin, Charles, 1809-1882.

6 February, undated

Letter to [Thomas Henry] Huxley;

Down, n.y. A.L.S. 1p. Agrees with Huxley's letter published in "The Week".

Owen, Richard, 1804-1892

Feb. 14, undated

7x4-1/2

Letter to [Leonard] Horner;

A.L.S. 4p. (see Lyell album, C) Natural history. Mentions Agassiz. Formerly B D25.L1.

Forbes, Edward, 1815-1854

March 20, undated

7-1/2x4-1/2

Letter to Sir Charles Lyell;

A.L.S. 2p. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882

April 12, undated

Letter to Karl Vogt

Brown, Robert, 1773-1858

April 21, undated

7x4-1/2

Letter to [Mrs. Katherine M.H. Lyell];

Monday, A.L. 2p. (see Lyell album,C) Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882

May 4, undated

Letter J. de C. Sowerby

Donnelly, Ignatius, 1831-1901

May 15-Dec. 4, undated

13x8

Journal extracts;

Xerox of typed D. 2p. (see Darwin papers.) Refers to correspondence with Darwin. B D25.170

Darwin, Charles, 1809-1882

July 4, undated

Letter to Bernard Studer

Humboldt, Alexander von, 1769-1859

July[?], 25/26, undated

8-1/2x5-1/2

Non-Carroll Darwin Materials

Letter to Sir Charles Lyell, [bart.];

Berlin, A.L.S. 1p.and add.,end. In French. Seal. Concerning geology and volcanoes.

Darwin, Charles, 1809-1882

Aug. 7, undated

Letter to Karl Vogt

Milne-Edwards, H. (Henri), 1800-1885

Sept. 24, undated

7x4-1/2

Letter to ----;

Monday, A.L.S. 1p. (see Lyell Album, C.) Refuses invitation. Formerly B D25.L1.

Darwin, Charles, 1809-1882

Sept. 28, undated

Letter to [Forel]

Owen, Richard, 1804-1892

Oct. 17, undated

7-1/2x4-1/2

Letter to [Charles Lyell];

A.L.S. 1p. (see Lyell album, C) Invitation to tea. Formerly B D25.L1.

Darwin, Charles, 1809-1882

Oct. 23, undated

Letter to [R. Irwin Lynch]

Forbes, Edward, 1815-1854

Dec. 6, undated

7x4-1/2

Letter to Lady [Mary Horner] Lyell;

Kent, A.L.S. 2p. (see Lyell album, C) Friendly letter. Natural history. Formerly B D25.L1.

Brown, Robert, 1773-1858

Dec. 23, undated

7x4-1/2

Letter to Mrs. [Lloyd] Horner;

Saturday, A.L.S. 2p. (see Lyell album, C) Friendly letter. Formerly B D25.L1.

Darwin, Charles, 1809-1882

Dec. 23, undated

Letter to [Richard] Owen

Darwin, Charles, 1809-1882

Sunday, undated

Letter to

Wallace, Alfred Russel, 1822-1913

Sunday, undated

7x4-1/2

Non-Carroll Darwin Materials

Letter to Sir Charles [Lyell];

St. Mark's Crescent, Sunday. A.L.S. 2p. (see Lyell album, C) Concerning Huxley. Formerly B D25.L1.

Forbes, Edward, 1815-1854

Wednesday, undated

7x4-1/2

Letter to Lady [Mary Horner] Lyell;

Wednesday. A.L.S. 2p. (see Lyell album, C) Friendly Letter. Formerly B D25.L1.

Agassiz, Louis, 1807-1873

Friday, undated

8x5

Letter to Geo[rge] Ticknor;

Friday. A.L.S. 1p. (see Lyell album, C) News of Tilton. Formerly B D25.L1.

Haeckel, Ernst Heinrich Philipp August, 1834-1919

Saturday morning, undated

6x4

Letter to Sir Charles Lyell;

Saturday morning. A.L.S. 1p. In German. (see Lyell album, C). Formerly B D25.L1.

Darwin, Charles, 1809-1882

Saturday Evening, undated

C[harles]R[obert Darwin to

Darwin, Charles, 1809-1882

undated

Charles Darwin to

Bell, Charles, Sir, 1774-1842

undated

4-1/2x7

Letter to [Lady Marion Shaw Bell.]

A.L. 2p. Fragment. (see Lyell album, C) Concerning Mr. and Mrs. Horner. Formerly B D25.L1.

Blair, R.A.

undated

Report on wings sent by . . . of Sedalia, MO
to the College of Surgeons for examination

Bell, Charles, Sir, 1774-1842

undated

9x7-1/2

Manuscript.

A.D. 2p., end. (see Lyell album, C) Natural history. Formerly B D25.L1.

Non-Carroll Darwin Materials

Darwin, Charles, 1809-1882	undated	
The Fertilization of Orchids		
Edgeworth, Michael Pakenham, 1812-1881	undated	7x4-1/2
Letter to Mrs. [K.M.H.] Lyell.		
A.L.S. 2p. (see Lyell album, C) Friendly letter. Formerly B D25.L1.		
Forbes, Edward, 1815-1854	undated	7 1/4" x 8 3/4"
Distribution of mollusca.		
A.D. 3p. and end.		
Hooker, Joseph Dalton, Sir, 1817-1911	undated	
Letter to Sir Charles Lyell		
Humboldt, Alexander von, 1769-1859	undated	
Letter to Sir Charles Lyell		
Darwin, Charles, 1809-1882	undated	
Charles [Robert] Darwin to		
Hooker, Joseph Dalton, Sir, 1817-1911	undated	7x4-1/2
Letter to [Charles] Lyell.		
A.L.S. 3p. (see Lyell album C) Concerning an earthquake. Formerly B D25.L1.		
Humboldt, Alexander von, 1769-1859	undated	6-1/2x5
Letter to Sir Charles Lyell,		
[bart]. A.L. 1p.and add. In French. Fragment. Friendly letter.		
Humboldt, Alexander von, 1769-1859	undated	9x5-1/2
Letter to Dame Pertz.		
A.L.S. 1p. In German. (see Lyell album, C.) No translation made. Formerly B D25.L1.		
Darwin, Charles, 1809-1882	undated	
List of seeds and plants		

Non-Carroll Darwin Materials

A list of seeds and plants in Darwin's hand whose purpose is undisclosed.

Lindley, John, 1799-1865	undated	8x5
Letter to Charles Lyell, Bloomsbury. A.L.S. 3p. and add., end. (see Lyell album, C) Botany. Formerly B D25.L1.		
Lyell, Charles, Sir, 1797-1875	undated	6-1/2x5
Letter to Sir Charles Lyell, [bart]. A.L. 1p.and add. In French. Fragment. Friendly letter.		
Lyell, Charles, Sir, 1797-1875	undated	7-1/4x4-1/2
Letter to [Sir] C[harles] Lyell, [bart.], Bloomsbury; Friday. A.L.S. 3p.and add. Friendly letter.		
Mantell, Gideon Algernon, 1790-1852	undated	7-1/4x4-1/4
Letter to Sir Charles [Lyell, bart.]. A.L.S. 4p. Friendly letter.		
Darwin, Charles, 1809-1882.	undated	
Letter to "Dear Sir;" Down, Beckenham, Kent, A.L.S. 1p. Thanks, but thinks he should present work on physics to someone who would better appreciate it.		
Sedgwick, Adam, 1785-1873	undated	7-1/4x4-1/2
Letter to [Sir] C[harles] Lyell, [bart.], Bloomsbury; Friday. A.L.S. 3p.and add. Friendly letter.		
Darwin, Charles, 1809-1882	undated	13x8-1/4
Origin of Species [On the origin of species]. A.D. 5 leaves. B D25.57		
Goodwin, Albert, 1845-1932	undated	10x14

Non-Carroll Darwin Materials

B D25.160 Sketches of Charles Darwin,
Mrs. Darwin, etc.

D. 1p. OS.

Darwin, Charles, 1809-1882. undated

Letter to [R. Irwin Lynch?];

Down, Beckenham, Kent, A.L.S. 3p. Concerns phenomenon of sleep in plants. Asks if Lynch noticed if the plant *Erythrina crista-galli* sleeps.

Darwin, Charles, 1809-1882. undated

Letter to "Dear Marshall;"

Down, Beckenham, A.L.S. 3p. Asks if he knows how deep down earthworms make tubular burrows. Concerning earthworms.

Van der Pas, Peter W undated 11x8-1/2

Hugo de Vries and Charles Darwin.

D. 29p. (see Darwin papers.) Presented by the author; May 1, 1968. This may be used, but not quoted. B D25.163

Zoological society of London undated 4 1/2" x 2

Pass issued to Jas. Gough. 3/4"

Printed N. S: Charles Darwin 1p. B D25.111

Hutton, Frederick Wollaston, 1836-1905 undated 7x4-1/2

Letter to [Frederick Wollaston Hutton];

Down, Bromley, Kent, Wednesday [1861-1862?]. A.L.S. 1p. (see Darwin papers.) Acknowledges issue of the journal of the Horticultural Society containing Dr. Herbert's paper. B D25.14

Fox, Sarah Hustler, 1800-1882 undated 8x5

Letter to [Charles Fox];

Friday. A.L. 2p. Incomplete. (see Darwin papers.) Hopes he gets better. Some problems of natural history. On same sheet as Darwin to Fox; June 4. B D25.149

Non-Carroll Darwin Materials

Darwin, Charles,1809-1882. undated

Letter to ----;

Down, Beckenham, Kent, A.L.S. 2p. Asks if any sort of gelatin of animal matter is ever used in preparing belladonna or digitalis.

Darwin, Charles,1809-1882. undated

Letter to [R Irwin Lynch?];

Down, Beckenham, Kent, A.L.S. 1p. Mr. Dyer suggested Darwin examine leaves of young plants. Asks for seeds from Lynch.
