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1960

Printed in Great Britain at the University Press, Cambridge
(Brooke Crutchley, University Printer)

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PREFACE

IN 1942 the Pilgrim Trust and the Darwin family presented to the University Library and to Down House the original papers of Charles Darwin. Those intended for Cambridge arrived at the Library after the war. They were in parcels each containing small packets of manuscript wrapped in tissue paper on which the subjects had been noted in Darwin's hand. They were presumably just as Darwin left them, and accordingly this arrangement was preserved when they were bound, the volumes now representing as closely as possible Charles Darwin's papers in the order in which he left them. Beside the original papers there were copies of a large number of letters to Darwin, collections of press-cuttings, etc.

A brief list of the papers was made in 1932 when they were still in the possession of the Darwin family. After they arrived here, they were checked and identified by R. V. Kerr and A. Tillotson. A more detailed Handlist was made in 1955 by Miss R. V. C. Bailey and Miss J. S. Gosse for the use of scholars working on the papers in the University Library. There was at that time no thought of publication, but it has been suggested that the Handlist would be of great general interest and should be made more widely available. Indexes were compiled by Miss G. M. B. Tyrer.

H. R. C.

7 July 1960

THE DARWIN PAPERS

- 1 'Northern Chile' [last ch. of *Geological Observations on South America* (1846)].
- 2-4 MS. of chs. 1-10 of *The Effects of Cross and Self Fertilization in the Vegetable Kingdom*.
- 5 Lecture notes on medicine etc. Edinburgh [1825-7]; zoological walk to Portobello [c. 1826]; early geological notes, near Shrewsbury; geological notes made with Sedgwick; notes on alluvium, 1837 (and 1846); geological notes on Salisbury Craigs, 1838; original notes for glacier papers, 1839-42.
- 6 First 'pencil' sketch of species theory, 1842; first sketch of species theory, 1842; sketch of species theory sent to Asa Gray, 1857.
- 7 Sketch of species theory, 1844, original MS. [see 113, 'fair copy'].
- 8 Ch. 3 of the *Origin of Species* as originally planned, before abstraction for publication in 1859: 'On the Possibility of all Organic Beings Occasionally Crossing and on the Remarkable Susceptibility of the Reproductive System to External Agencies', 1856. Preceded by summary of original version of the *Origin of Species*, in blue cover.
- 9 Ch. 4 of the *Origin of Species* as originally planned, before abstraction for publication in 1859 [i.e. ch. 2 in 1859: 'Variations under Nature']. 1857. [Pp. 1-87; 91 folios, etc.]
- 10 (i) Ch. 5 of the *Origin of Species* as originally planned, before abstraction for publication in 1859 [i.e. ch. 3 in 1859: 'The Struggle for Existence as Bearing on Natural Selection']. 1857.
(ii) Ch. 6 of the *Origin of Species* as originally planned, before

abstraction for publication in 1859 [i.e. ch. 4 in 1859: 'On Natural Selection']. 1857.

- 11 (i) Ch. 7 of the *Origin of Species* as originally planned, before abstraction for publication in 1859 [i.e. ch. 5 in 1859: 'Laws of Variation. Varieties and Species Compared']. 1857.

(ii) Ch. 8 of the *Origin of Species* as originally planned, before abstraction for publication in 1859 [i.e. ch. 6 in 1859: 'Difficulties in the Theory of Natural Selection in Relation to Passages from Form to Form']. 1857.

- 12 Ch. 9 of the *Origin of Species* as originally planned, before abstraction for publication in 1859 [i.e. ch. 8 in 1859: 'Hybridism']. 1857.

- 13 Ch. 10 of the *Origin of Species* as originally planned, before abstraction for publication in 1859 [i.e. ch. 7 in 1859: 'Mental Powers and Instincts in Animals']. 1858.

- 14 Original and copy of chapter in *Origin of Species* on 'Geographical Distribution' [i.e. chs. 11 and 12 in 1859].

- 15 (i) MS. of part of ch. 4 of the *Origin of Species* as originally planned on 'Common and Large Genera Presenting Most Varieties'. Fair copy of the above MS., which was sent to J. D. Hooker on 6 May 1858 [see *Life and Letters of Charles Darwin*, vol. II, p. 107] and bears his notes. [42 folios, etc.]

(ii) Miscellaneous tables of species, etc. First part. Items numbered 1-105.

- 16 (i), (ii) Miscellaneous tables of species, etc. Second part. Items numbered 106-203; 204-308.

- 17 (i) Rough MS. folios of part of *The Expression of the Emotions in Man and Animals* (1872), written on the backs of old MS. folios of *The Descent of Man* (1871).

MS. of *On the Movements and Habits of Climbing Plants*. This is the MS. from which the article in vol. IX of the *J. Linnean Soc.* (1865) was printed. Part I, pp. 1-62.

(ii) MS. of *On the Movements and Habits of Climbing Plants*. Part II, pp. 63–93.

Fair copy corrected by C.D. of MS. of ch. 8 [1876 ed. p. 288, l. 22 onwards] and ch. 9 [beginning of chapter to p. 321, l. 23] of *The Effects of Cross and Self Fertilization in the Vegetable Kingdom* [in ch. 9 folio 559 is missing. This is apparently the copy from which type was set up.]

18 (i), (ii) MS. of *On the Movements and Habits of Climbing Plants*. Part II, pp. 94–160, 160a–235.

19 (i), (ii) MS. of *The Power of Movement in Plants* (1880), chs. 1 and 2, pp. 1–103 and pp. 104–84. Pp. 1–12 Introduction.

20 (i), (ii) MS. of *The Power of Movement in Plants* (1880), chs. 3 and 4, pp. 185–297 and 298–396, +illustrations. Some of the illustrations have been mounted by C.D. on fragments of proof sheets of *The Different Forms of Flowers on Plants of the Same Species* (1877) and *The Effects of Cross and Self Fertilization in the Vegetable Kingdom* (1876).

21 MS. of *The Power of Movement in Plants* (1880), chs. 5 and 6, pp. 397–425 and 426–91 [p. 412 is missing].

22 (i–iii) MS. of *The Power of Movement in Plants* (1880), chs. 7 and 8. Ch. 7 comprises:

Fair copy corrected by C.D.

52 folios of the original MS. in C.D.'s and Francis Darwin's hand, from which fair copy (above) was made. Includes as far as folio 48 of fair copy and p. 348 of printed book [pp. 435–75].

Ch. 8 has some leaves in Francis Darwin's hand [pp. 1–46, +illustrations].

23 (i–iii) MS. of *The Power of Movement in Plants* (1880): ch. 9, folios 1–79; ch. 10, folios 1–45 [folio 9, i.e. p. 497, l. 34 to p. 498, l. 5, is missing]; ch. 11, folios 1–52; ch. 12, folios 19–48 [missing are folios 1–20, 30, 31, 37, 38, 47 and 49–]. Most folios are in Francis Darwin's hand, with corrections by C.D.

- 24 (i), (ii) MS. of *The Formation of Vegetable Mould, through the Action of Worms*... (1881), chs. 1-3 [certain folios missing, see below, no. 25].
- 25 (i), (ii) Fair copy of *The Formation of Vegetable Mould, through the Action of Worms*... (1881), chs. 4-7. Folios 1-311. [Missing from nos. 24 and 25 are the following folios: 31, 32, 44-66, 68, 69 and 312.]
- 26 MS. of *Recollections of the Development of My Mind and Character*, by Charles Darwin.
- 27 (i) Paper on 'Bees Boring Holes in Flowers', 16 August 1841; 8 folios. [This was probably written for publication in the *Gardeners' Chron.*, in which during 1841 notes had appeared on the subject (*G.C.* 1841, pp. 485, 517, 533, 548, 550 and 596).] Notes for paper: 'Notes on the Effects Produced by the Ancient Glaciers of Caernarvonshire...'; includes a small table of heights.

Letters: J. Provis, 14 July 1842 and 20 July 1842.

MS. of paper: 'Notes on the Effects Produced by the Ancient Glaciers of Caernarvonshire...etc.' (printed in *The London, Edinburgh and Dublin Philosophical Mag. and J. Science*, vol. XXI (1842), pp. 180-8); fifteen folios. [The last sheet, containing the end of the paper, is missing.]

One folio of MS. of 'Observations on the Structure and Propagation of the Genus *Sagitta*' (*Annals and Magazine of Natural History*, vol. XIII (1844)). The folio contains from the beginning of the paper to line 1 of p. 2.

MS. of 'On the Action of Seawater on the Germination of Seeds' (printed in *J. Linnean Soc. (Botany)*, vol. I (1857), pp. 130-5. Read to the Society on 6 May 1856).

Notes for the above paper. Also included are cuttings on the subject from the *Gardeners' Chron.* of 26 May 1855.

MS. of paper: 'On the Agency of Bees in the Fertilization of Papilionaceous Flowers, and on the Crossing of Kidney Beans' (published in the *Gardeners' Chron.* of 14 November 1858). Two sheets of galley proof of this paper; and specimens of kidney beans (which are now in box 142).

(ii) MS. of paper 'On the Sexual Relations of the Three Forms of *Lythrum salicaria*' (printed in the *J. Linnean Soc.* (Botany), vol. viii (1865), pp. 169-96. Read 16 June 1864). Also notes (for the above paper).

- 28 (i) Copy of 'The Action of Carbonate of Ammonia on the Roots of Certain Plants' (printed in *J. Linnean Soc.* (Botany), vol. xix (1882), pp. 239-61. Read 16 March 1882), in Francis Darwin's hand, corrected by C.D.

Fair Copy of the above. 50 folios.

(ii) Copy in Francis Darwin's hand (corrected by C.D.) of paper 'The Action of Carbonate of Ammonia on Chlorophyll Bodies' (printed in *J. Linnean Soc.* (Botany), vol. xix (1882), pp. 262-84. Read 6 March 1882).

Fair copy of the above, with corrections by C.D.

MS. of 'preliminary notice by C.D.' to Dr Van Dyck's 'On the Modifications of a Race of Syrian Street-Dogs by Means of Sexual Selection' [cf. the *Proceedings of the scientific meetings of the Zoological Society of London* for 1882, pp. 367-9].

- 29 MS. notes made on board H.M.S. *Beagle*, 1832-6, on:

(i) Animals, pp. 1-50. Descriptions, notes, etc.

Fish in spirits of wine: 20 pages with a brown paper wrapper.

Insects: 2 pages, and a letter: C. C. Babington, 1 July 1837.

Shells in spirits of wine [8 pages].

(ii) Birds.

(iii) Shells.

Lists of *Beagle* specimens.

Catalogue of boxes of corallines [10 small pieces of paper].

Insects in spirits of wine [one sheet only].

Zoological plates and references.

'Table for Lind's wind gage for Captain Fitzroy of H.M.S. *Beagle*.'

Mammalia in spirits of wine.

Birds, etc. in spirits of wine. [This and the above bear the stamp 'Coll. Sherborn. Ex. Litt. Ricardi. Owen. Don. R. S. Owen'. They were removed from boxes of copies of letters.]

Notes on the preservation of specimens.

- 30 (i), (ii) Zoology. Diary of observations on zoology of the places visited during the voyage [of H.M.S. *Beagle*].
- 31 (i), (ii) Zoology. Diary of observations on zoology of the places visited during the voyage. . . .
- 32 (i), (ii) Diary of observations on the geology of the places visited during the voyage. Part I.
- 33 Diary of observations on the geology of the places visited during the voyage. Part II.
- 34 (i), (ii) Notes on the geology of the places visited during the voyage: maps, etc. Part I.
- 35 (i), (ii) Notes on the geology of the places visited. . . . Part II.
Letter: C. D. Douglas, 24 February 1835.
- 36 (i), (ii) Notes on the geology of the places visited. . . . Part III.
- 37 (i), (ii) Notes on the geology of the places visited. . . . Part IV.
- 38 (i), (ii) Notes on the geology of the places visited. . . . Part V.
- 39 (i) A collection of letters:

H. S. Fox, 31 October 1833; C. D. Douglas, 5 January 1836; J. G. Malcolmson, 24 July 1839, 31 August 1839, 7 October 1839, 10 November 1839; B. J. Sullivan, 20 October 1838, n.d.; E. A. Darwin, n.d.; W. B. Carpenter, 2 January 1844, 21 December 1844, 5 May 1845; W. H. Miller, 8 March ?; T. Reeks, 8 February 1845, 25 February 1845, 14 March 1845; W. Hopkins, 3 March 1845, 27 April 1846, 5 May 1846; C. G. Ehrenberg, n.d., 8 April 1845, 11 March 1846; G. R. Waterhouse, 30 March 1846.

MS. on the Geology of the Falkland Islands, by B. J. Sullivan.
Lists of geological specimens.

(ii) Maps and diagrams: special notes on cleavage, fossils, shells, etc.

- 40 Scraps [unspecified].
- 41 Paper headed 'Coral Islands'; fair copy of the foregoing; 'Recapitulations and Concluding Remarks' [on geology of South America]; 36 folios of notes.
- 42 Notes for *Geological Observations on South America* (1846) [includes copies of letters from various persons who experienced the earthquake at Concepción, 20 February 1835. These had been sent by Capt. Beaufort to C. Lyell for possible communication to the Geological Society].
- 43 (i) Letters: G. B. Sowerby, 17 January 1846, 7 February 1846. Notes by Orbigny, Sowerby and Forbes on shells collected by C.D.
- MS. [in Sowerby's hand] of original version of Sowerby's Appendix to *Geological Observations on South America, Being the 3rd part of... the Voyage of the Beagle...* (London, 1846).
- Letters: E. Forbes, n.d. [2]; incomplete and n.d. [2]; A. d'Orbigny, 14 February 1845, 31 January 1846.
- (ii) Fair copy of the above; MS. of final version.
- 44 Printed maps of South America, and plans and diagrams (geological sections, etc.) made by C.D.
- 45 Notes for chapter on 'Variation under Nature' of *Origin of Species* [ch. 4 of original book; ch. 2 of the 1859 publication]. This volume contains, besides C.D.'s and others' MS. notes, printed extracts from periodicals, newspaper-cuttings, etc.
- 46 (i) Notes for chapter on 'Struggle for Existence' [ch. 5 of original *Origin of Species*; ch. 3 of the 1859 publication]. Newspaper-cuttings, etc.
- Letters: J. B. Sullivan, 10 May 1843 (imperfect), 13 January 1844, 4 July 1845; R. Patterson, 18 October 1860; Hardy to Hindmarsh, 8 May 1861; J. B. Bacon to Lady Drysdale, n.d.; J. P. M. Weale, n.d.; T. Rivers, 3 February 1863; J. Peel, 4 March 1868; J. J. Weir, 31 March 1868; F. T. Köppen, 25 April 1871.

(ii) Notes on the seeds of flowers (including hollyhock and stock) and vegetables, 'Comparison of seeds, flowers, legumes, etc. to see effect of selection and of *non*-correlation'.

Notes on the origin of cultivated plants, abstracts and a list of alpine plants not found in arctic Europe.

Notes for 2nd edition of *Journal of Researches into the Natural History and Geology of Countries Visited During the Voyage of H.M.S. Beagle* which 'may be useful in species theory'.

Notes on the habits of bees.

- 47 Notes for 'Laws of Variation' [originally ch. 7 of the *Origin of Species*; ch. 5 of the 1859 publication], includes also notes by G. R. Waterhouse, H. C. Watson and G. J. Romanes.

Letters: A. R. Wallace, ? September 1857, 26 September 1863; H. Holland, 10 December 1859; J. Lamont, [1860?]; G. R. Waterhouse, ? February 1860; A. Murray, 5 May 1860, 3 March 1861; H. C. Watson to J. D. Hooker (copy by C.D.), 10 May 1860, n.d. [2]; C. T. Gandin, 15 August 1860; J. M. Rodwell, 31 October 1860, 6 December 1860; F. Jamieson, 13 June 1861; W. D. Crotch, 25 January 1861; H. W. Bates, ? May 1862; R. Swinhoe, 29 July 1863; G. Clendon, 10 November 1863; D. B. Walsh, 29 May 1865; T. Belt, 12 January 1867; E. Blyth, ? February 1867; J. D. Hooker, 19 November 1867, n.d., 15 January 1868, n.d.; J. Ball, 31 January 1872; H. W. Jackson, 20 June 1874; T. Dyer, 20 October 1875; J. Scott, 12 April 1877; J. Walton, n.d.; W. C. L. Martin, n.d. [2]; W. D. Fox, n.d.; H. Falconer, 25 October ?, 12 November ?; W. H. Harvey, 23 November ?; 'Unidentified writer', ? November 1860.

- 48 Scraps and notes for 'Transitions of Organs', i.e. for ch. 8 of the *Origin of Species* before it was abstracted for publication in 1859 [ch. 6 in 1859].

Letters: J. Lubbock, 8 February 1859, [1860?]; J. D. Glennie [+encl.], 6 April 1861; G. H. K. Thwaites, 24 April 1863; E. Blyth, 22 February 1867, 30 March 1868; J. D. Hooker, 14 December 1867; G. R. Waterhouse, n.d.; H. Wedgwood, n.d. [2].

Notes on bees' cells for origin of species theory.

- 49 Notes on dichogamy in plants, 1841. Also other notes on plants, dated 1841-72. ('Scraps about plants, all fully used.')

- 50 Rough draft made for W. Kemp of Galashiels of 'An account of some seeds buried at a great depth...which germinated.' Together with correspondence on the subject.

Letters: W. Kemp, 2 October 1843, 17 October 1843, 4 November 1843, 10 November 1843, 24 November 1843, 4 December 1843; J. Pringle, 4 December 1843; J. Lindley, n.d. [2]; J. S. Henslow, 9 October 1843, 17 October 1843; C. C. Babington, 26 October 1843.

Glen Roy notes and scraps. Including C.D.'s rough drafts of letters to the editor of the *Scotsman*, R. W. Chambers, and a letter to C. Lyell [cf. *More Letters of Charles Darwin*, vol. II, pp. 181-7].

Draft of a letter to C. Lyell, another letter, a copy of which was actually sent to C. Lyell [*Life and Letters*, vol. II, p. 74], both on the subject of Forbes's *Atlantis* (1856). A few notes, etc.

'Abstract of Views on Glacial Periods', by J. Croll.

Letter: J. D. Hooker [c. November 1858] [cf. *More Letters*, vol. I, p. 446 n.].

Notes and other material on alpine, polar and glacial distribution, including draft of letter to J. D. Hooker (18 March 1861).

- 51 Notes and diagrams on phyllotaxy [1863].

Notes on peloria and on fertility of *Antirrhinum*, 1862-5.

Material for pangenesis theory [1868]. Includes notes, etc., C.D. on Ranyard on Pangenesis [1871], original draft of chapter ultimately altered and published in *Variation of Animals and Plants* as 'Provisional Hypothesis of Pangenesis' [vol. II, ch. 27].

- 52 Draft of a discussion on organs not being formed by direct action of medium in distinct organisms. Sent to G. H. Lewes, 1868.

Ideas for experimenting some Galtonian measurements, 1873.

Rough notes on Southampton gravel, 1874.

Romanes's paper on abortion, with draft of C.D.'s reply, and letters printed in *Nature* on the subject, etc., 1874.

Notes and letters concerning Torbitt's experiments on the potato disease, 1876-.

Perfected notes and other material on Aggregation of chlorophyll in plants [1880-1].

- 53 (i), (ii) Additional photographs for *The Expression of the Emotions in Man and Animals*, other material, and letters to C.D. Also drawings, notes and references of chs. 2, 3, 6, 7, introduction; memoranda, some dated; cuttings from *Nature* and other scientific publications. [See box 142 for photographic plates.]

Notes for *The Effects of Cross and Self Fertilization in the Vegetable Kingdom* (1876).

- 54 Material for *Insectivorous Plants* (1875). Daily observations, notes, undated scraps for 1860, 1861, 1862, 1871 and some from early 1872.

- 55 Material for *Insectivorous Plants* (1875). Daily observations, notes, undated scraps, etc. for the later months of 1872 and June and July of 1873.

- 56 Material for *Insectivorous Plants* (1875). Daily observations, notes, etc., for the remaining months of 1873.

- 57 Material for *Insectivorous Plants* (1875). Daily observations, notes, etc., for the first part of 1874.

- 58 (i), (ii) Material for *Insectivorous Plants* (1875). Press-cuttings, articles from scientific journals, letters to C.D.

Letters: D. Oliver, 25 September 1860; A. W. Hofmann to E. Crecy, 13 October 1860, 2 October 1860, 30 October 1860, 10 November 1860; T. Reeks, 15 November 1860; D. Oliver, 19 September 1860; E. Crecy, 10 December 1860; W. M. Canby, 6 July 1867; W. C. Tait, 2 March 1869; W. W. Baxter, 4 December 1872; M. Treat, 13 December 1872; W. M. Canby, 1 February 1873, 22 April 1873; J. B. Sanderson, 28 July 1873;

M. Treat, 28 July ?, n.d.; J. B. Sanderson, 13 August 1873; E. Frankland, 22 September 1873; J. W. Moore, n.d., 3 October 1873, 7 October 1873; E. Frankland, 10 October 1873; T. L. Brunton, 28 February 1874; E. Frankland, 9 October 1874; J. B. Sanderson, 12 May ?; E. Klein, 14 May 1874; J. B. Sanderson, 26 May ?; W. T. Dyer, 5 June 1874; M. Treat, 8 June 1874; J. B. Sanderson, 19 June 1874; T. C. Copland, 23 July 1874; ? 25 June 1874, 26 June 1874; Sir J. Fayrer, 30 June 1874; J. Ralfs, 9 July 1874; D. Moore, 9 July 1874; E. Klein, 10 July 1874; F. C. Donders, 12 July 1874; L. Wedgwood, 22 August 1874; H. M. Wilkinson, 5 August 1874; T. L. Brunton, 4 September 1874; H. C. Sorby, 9 September 1874; J. Price, 10 September 1874; H. M. Wilkinson, 15 September 1874; J. D. Hooker, 29 September 1874; F. Cohn, 4 October 1874; D. Oliver, 12 October 1874; J. B. Sanderson, 12 October 1874; E. Frankland, 9 October 1874; J. B. Sanderson, 16 October 1874; D. Oliver, 20 October 1874; 22 October 1874; M. Treat, 2 December 1874; G. King, 18 December 1874; D. Oliver, 19 December 1874, 24 December 1874, 2 January 1875; J. B. Sanderson, 25 June 1873; T. L. Brunton, 23 May 1876; T. Marshall, 16 July 1874; W. C. Marshall, 30 August ?, 5 September 1874; Edward Darwin, n.d.; F. Darwin, n.d. [2]; L. Wedgwood ?, p.c., n.d.; F. and A. Darwin, 8 August ?; M. Foster, n.d.; J. Price, n.d.; J. B. Sanderson, 26 June ?, 3 September ?; L. Darwin to Abney, n.d.; F. M. Balfour, n.d.; T. Aitken, n.d.; J. B. Sanderson, n.d.

59 (i), (ii) Material for *Insectivorous Plants* (1875). Daily observations, notes, etc., for the second part of 1874, and for 1875.

60 (i), (ii) Material for *Insectivorous Plants* (1875).

Collections of related notes, undated notes and records of observations.

Records of experiments with vapours, acids and salts, collections of related notes, many undated, references to work of other authors, etc.

61 Material for *Insectivorous Plants* (1875). Rough draft of MS. for the book, incomplete and in no ascertainable order.

- 62 Notes for 'On the Action of Carbonate of Ammonia on the Roots of Certain Plants' [*J. Linnean Soc. (Botany)*, vol. xix, pp. 239-84].

Letter: S. H. Vines, 24 November 1881.

- 63 Material on earthworms for *The Formation of Vegetable Mould, through the Action of Worms* (1881).

Notes on (1) castings (dated, followed by undated scraps); (2) furrows and ploughed land (dated, followed by undated scraps); (3) experiments done at St Catherine's Hill, Teg Down, and Stonehenge. [See box 142 for chalk powder.]

Also includes cuttings from scientific journals.

- 64 (i), (ii) Material on earthworms for *The Formation of Vegetable Mould, through the Action of Worms* (1881).

Notes of experiments on the habits of worms, many in the hand of Francis Darwin; notes on experiments carried out at Silchester, Chedworth, Abinger, Leith Hill and Stonehenge, with diagrams, plans, calculations, and photographs.

Cuttings from various journals.

Notes on the Roman Villa at Chedworth by Prof. Buckman and R. W. Hall, 2nd ed. (1873).

Memorandum on Chedworth (15 November 1877).

Letters: C. B. Plowright, n.d.; B. A. Irving, 30 November 1881; G. F. Crawte, 11 March 1882; J. Niven, 12 March 1882; J. F. Simpson, 18 March 1882.

Articles on worms by E. R. Lankester and E.-L. Trouessart.

- 65 Material on earthworms for *The Formation of Vegetable Mould, through the Action of Worms* (1881). Notes and observations made between June 1880 and March 1881; drawings, proofs, calculations, and a few undated scraps.

- 66 Notes on researches into bloom on leaves and fruit, which remained unfinished at C.D.'s death [see *Life and Letters*, vol. III, p. 339].

Notes for the years 1863, 1873-5 and January to August of 1877.

- 67 Notes on researches into bloom on leaves and fruit.
Notes for September 1877 to December 1882.
- 68 Notes on researches into bloom on leaves and fruit.
Undated notes and scraps.
Collected scraps on bloom.
Collected late notes on leaf secretion and ants.
Collections of notes on: sleep in plants; salt water; the effects of shaking stems of plants.
Notes, with no indication of year, in sequences from 11 June to 21 November, and 1 August to 25 September.
Letter: H. Müller to F. Darwin, 16 February 1876.
- 69 Material for new editions or corrections of works:
Notes, etc., and proofs for the supplemental note for *The Descent of Man* (1871).
Letter: 'An Irishman', 13 June 1877.
Notes about the translation of the 5th edition of the *Origin of Species* into French, including certain notes which are possibly by Asa Gray.
Notes used in correcting the 6th edition of the *Origin of Species* (1872).
Material for the 2nd edition of *Coral Reefs* (1874), including 3 maps, Commander W. J. S. Wharton's notes on Rodriguez and Zanzibar, Lieut. Charles Smith's notes on S.W. Pacific, proofs of plates, and cuttings from journals, etc.
Letters: J. W. Dana, 21 July 1874; H. Piggott, 20 March 1875; J. V. Carus, 16 April 1876; W. J. S. Wharton, 14 August 1878, 12 March 1888, 13 March 1888, 19 September 1888; T. G. Bonney, 19 September 1888; Smith, Elder and Co. to F. Darwin, 29 February 1888, 6 April 1888; F. Darwin to T. G. Bonney, n.d.
Notes by C.D. and others for the 3rd edition of *Coral Reefs* (1889), including a map of the Great Barrier Reef, an extract from Capt. Blackwood's letter to Capt Beaufort (20 April 1843), cuttings, etc.
Material for the 2nd edition of *Climbing Plants* (1875), including

cuttings, proofs of plates, and notes by G. H. Darwin on *Climbing Plants*.

Material for the 2nd edition of *The Effects of Cross- and Self-Fertilization in the Vegetable Kingdom* (1878), including an article: 'Ueber Honigthau' by Dr H. Hoffmann, a review of the book by Asa Gray, and cuttings from journals.

- 70 Material for the 2nd edition of *On the Various Contrivances by which Orchids are Fertilized by Insects* (1877). Paintings for plates I-IV [originally included also seeds and pressed flowers: these are now in box 142].

Letters: F. Walker, 24 June [1876]; C. J. Anderson, 18 June 1863.

- 71 Abstracts made by C.D. of scientific books. Includes 'Catalogue of books'.
- 72 Abstracts made by C.D. Pp. 1-82: Miscellaneous abstracts of scientific books, not recorded in the 'catalogue' of vol. 71; pp. 83-169: Miscellaneous abstracts of scientific journals, chiefly on botany (*Annales des Sciences*, series II, vol. I-).
- 73 Abstracts made by C.D. of scientific journals. Includes the following: *Mém. Soc. Phy. Sci. de Genève*; *Mém. des Muséums*, vols. III, X; *Mém. du Mus. d'histoire Nat.* vol. X, 1823; *The London J. Botany*; *Phytologist*, vol. II, 1845-7; *The Botanical Gazette*; *Zoologists*, vols. I and II, 1843-56; *J. Indian Archipelago*.
- 74 Abstracts made by C.D. of scientific journals, etc. Includes the following: *Westminster Rev.*; *Annales des Scient. Nat.* 1st series; *Horticulture Trans.* vols. I-VII; *Silliman's American J. Science*; *American J. Science*; *Horticultural J.* vol. I; *J. Agricultural Soc. of England*, vol. I; *Boston J. Natural History*, vol. I; *Linnaean Soc. Trans.* vol. XVI; *J. Asiatic Soc. Bengal*; *Madras J. Literature and Science*; *British Association: Report of the 3rd Meeting for 1840*.
- 75 Abstracts made by C.D. of scientific pamphlets and journals. Includes an index of abstracts of '4° and 8° pamphlets' and the following: *Gardeners' Chron.*; *Bull. Geological Soc.*; *Geological J.*; *Annals of the Soc. of Natural History*; *Trans. New Zealand Institute*; *Kosmos*; *Proc. and Trans. Zoological Soc.*;

Linnean J.; *Trans. Linnean Soc.*; *The American Naturalist*; *Philosophical Trans.*; *J. Anatomy and Physiology*; *Proc. American Philosophical Soc.*; *Annales, Soc. Entomolog. de France*; *Mind*; *J. Anthropological Institute*; *Proc. or Mem. of the Boston Soc. of Nat. Hist. (sic)*; *Proc. American Academy of Sciences*; *Proc. Royal Soc. for the Advancement of Science*.

Lists of articles and pamphlets on: intercrossing and sterility; dichogamy in plants and animals; variations under Nature, and laws of variation.

76 Old observations on Diptera.

Notes, scraps and calculations used in *The Effects of Cross and Self Fertilization in the Vegetable Kingdom*.

Letters: W. Masters, 8 May 1860; M. Bird (?), 18 June 1860, 26 June 1860; C. Hardy, 23 July 1860; R. Colgate, 25 June 1861; R. Caspary, 18 February 1868; J. Smith, 8 April 1868; A. W. Bennett, 3 May 1869; F. Müller, 18 October 1869; F. Hildebrand, 23 May 1873; H. Müller, 19 May 1873, 1 July 1873; M. T. Masters, 26 January 1876; T. Moore to W. T. Dyer, 15 February 1876; W. E. Darwin, 8 May ?

77 Material used in *The Effects of Cross and Self Fertilization in the Vegetable Kingdom*, which includes scraps, memoranda, notes of observations (many undated), tables of calculations, references to articles in journals.

Account of 25 years of observations of sweet peas, signed by W. Masters.

Letters: F. Darwin, n.d. [2]; G. H. Darwin, n.d.; S. Wells, 25 November 1858, 17 November 1858; W. L. Childs, 23 November 1858; W. A. Leighton, 19 November 1858; F. Delpino, 18 June 1873; H. Müller, 10 June 1873; E. Norman, 18 May 1876; T. Laxton, 2 May 1876; W. Ogle, 23 July 1876; A. Fitch, 18 November 1862; W. Masters, 3 April 1850; W. D. Fox, 19 December ?; J. Cattell, 12 May 1860; J. D. Hooker, 30 August 1873.

78 Original MS. notes for *The Effects of Cross and Self Fertilization in the Vegetable Kingdom* (1876) [see also no. 79].

79 Original MS. notes for *The Effects of Cross and Self Fertilization in the Vegetable Kingdom* (1876), continued from no. 78.

- 80 Material for the 1st edition of *The Descent of Man* (1871).

References to books and articles by other writers.

Index to a work by C. L. Brehm.

Index of books used.

Cuttings from scientific journals, etc.

Letters: H. Denny, 23 January 1865; C. L. Brace, 14 November 1867; J. Murie, 1 March 1868; H. Turner, 3 January 1870; F. Galton, 28 January 1870; J. L. Gray, 14 February 1870; H. Wedgwood, n.d.; J. Lubbock, 27 February ?; D. Forbes, imperfect; E. Blyth, imperfect.

- 81 Material for the 1st edition of *The Descent of Man* (1871). Includes dated scraps, illustrations and miscellaneous undated scraps.

- 82 Material for the 1st edition of *The Descent of Man* (1871).

Letters: T. Smith, 26 August 1869, 8 October 1869, 5 November 1869, 14 September 1869, n.d.; H. Doubleday, 3 April 1868, 22 April 1868, 28 March 1868; A. R. Wallace, 18 September ?, n.d., 24 February ?, 15 March ?, n.d.; R. Trimen, 18 November 1869, 31 December 1867; H. W. Bates, 21 February 1868, 26 February 1868, 11 March 1867, 12 March 1868, 20 April 1868, 17 January 1870, n.d.; F. Walker, 9 December 1867; W. Baird, 7 February 1868; A. Hancock, 8 February 1868; G. B. Sowerby, 17 February 1868; C. S. Bate, 11 July 1868, 17 February ?, 3 March 1868, 2 April 1868, 24 May 1868, 24 May 1868, 1 February 1869, 31 July 1869; C. D. Waterhouse, 12 February 1868, 19 February 1868; J. Blackwall, 12 February 1868, 8 September 1869, 10 August 1869; J. Lubbock, 5 August ?; R. McLachlan, 24 July 1868, n.d.; D. B. Walsh, 25 March 1868; F. Müller, 9 September 1868; ? Langton to S. A. Wedgwood, 9 November ?; F. Darwin to Emma Darwin, n.d.; G. R. Crotch, 2 October ?; E. W. Janson, 25 May 1868, 4 June 1868; O. Staudinger, 15 May 1868; J. J. Weir, n.d., ? March 1868; D. B. Walsh, 1 May 1868; C.D. to R. Trimen, 27 March 1868; C.D. to ?, n.d.

Queries and observations of Dr A. Günther; undated scraps; press-cuttings; illustrations.

Letters: A. Günther, 19 December 1867, n.d.; R. Buist, 26 February 1868; L. Agassiz, 22 July 1868; Asa Gray, 27 February 1871.

- 83 Material for 1st edition of *The Descent of Man* (1871). Includes dated notes and observations, made at the Zoological Gardens and elsewhere; undated scraps and memoranda; cuttings from scientific journals; illustrations; observations by other people.

Letters: G. Cupples, 11 May 1868, 13 May 1868, 26 May 1868, 11 March 1869, 20 June 1870; E. Blyth, 18 May 1868, 20 November 1868, n.d.; Lord Tankerville, 9 February 1862; J. G. Gray, 2 March 1868; J. Bush, 30 March 1868; J. Wright, 11 June 1868; W. Reade, 17 January 1869; J. D. Caton, 2 December 1868, 5 May 1869, 17 November 1870; A. W. Neill, 24 January 1869, 20 February 1869; P. de M. G. Egerton, 18? February 1869; E. Jones to M. L. Ruck, 28 April 1869; W. Blenkiron, n.d.; E. Layard, n.d.; W. D. Fox, n.d.; B. J. Sullivan, 13 February ?; M. L. Ruck to F. Darwin, n.d.; A. R. Wallace, 1 May ?.

- 84 (i), (ii) Material for the 1st edition of *The Descent of Man* (1871). Notes, calculations, references to books and articles by other writers, mainly on sex selection in birds, miscellaneous memoranda, cuttings from journals, drawings, and proofs of illustrations. [See box 142 for feathers.]

Letters: B. P. Brent, 29 May 1861; J. Shaw, 19 April 1866; R. Swinhoe, 14 April 1863; J. Gould, 10 May 1866; A. Newton, 21 January 1867; E. Blyth, 4 October 1868; A. Newton, 1 March 1867; W. B. Tegetmeier, 29 March 1867; A. R. Wallace, 26 April 1867, 1 May 1867; A. D. Bartlett, 9 December 1867; R. Trimen, 13 January 1868; G. G. Stokes, 27 February 1868; J. J. Weir, ? March 1868, 23 March 1868, 24 March 1868, 31 March 1868, 16 April 1868, ? May 1868, ? 1868, 18 May 1868; E. Hewitt, 28 March 1868; H. Weir, 28 March 1868; J. J. Weir, n.d.; G. R. Gray, 2 April 1868, 8 April 1868; H. B. Tristram, 1 July 1868, 5 September 1868; R. B. Sharpe, 5 August 1868; E. Blyth, 4 October 1868, imperfect letters, 8 leaves; A. R. Wallace, 24 March 1869; L. Jenyns, n.d.; H. Weir, n.d.; A. R. Wallace, 28 April ?, n.d.; W. D. Fox, 9 December ?; R. Trimen, n.d.; J. J. Weir, imperfect letters, 4 leaves; W. B. Tegetmeier, 28 August 1861; E. S. Dixon, n.d.; G. G. Stokes, 27 February 1868 (copy).

- 85 Material for 1st edition of *The Descent of Man* (1871). Includes notes and relevant letters on specific subjects (e.g. music, colour of hair in man, etc.); dated scraps; undated miscellaneous scraps and memoranda; cuttings from journals.

Letters: J. Beddoe, n.d., 13 September 1869, 22 August 1869; A. R. Wallace, 2 March ?; W. Mantell, n.d.; H. Spencer to ?, n.d.; C. J. Anderson, 6 April 1856; A. Smith, 26 March 1867; J. Scott, 21 December 1868; E. Blyth, 26 April 1869; W. Reade, 9 November 1870; J. Peel, 17 March 1868; R. Russell, 27 July 1868; S. Sanday, 29 October 1868; G. Cupples to J. R. S. Barr, n.d.; W. B. Tegetmeier, n.d.; W. D. Fox, 9 December 1868; Alex Wallace, 28 July 1868; R. Trimen, n.d.; H. Doubleday, 8 March 1868; R. Trimen, 13 April 1868; A. R. Wallace, n.d.; M. Paycan, 16 July 1869; R. Thomson to G. Cupples, n.d.; R. Trimen, 20 February 1868, 26 March 1868; J. L. A. Quatrefages, 4 March 1868; Alex Wallace, 26 July 1868; J. Hellins, 20 April 1868, 16 December 1868.

- 86 Letters and notes relating to the 1st edition of *The Descent of Man* (1871), and of errata for *Insectivorous Plants* (1875).

Letters: H. Lee, 21 January 1868; J. Blackwall, 18 February 1868; H. W. Bates, 18 February 1868; H. J. Stainton, 20 February 1868; R. McLachlan, 21 July 1868; A. R. Wallace, 24 February 1868; H. J. Stainton to H. Doubleday, 25 February 1868; L. Jenyns, 27 February 1868; H. J. Stainton, 29 February 1868; R. Buist, 5 March 1868; H. J. Stainton, 7 March 1868; J. J. Weir, 7 March 1868; J. Canestrini, 13 March 1868; Alex Wallace, 14 March 1868; J. Canestrini, 8 April 1868; W. Reade, 28 June 1868; E. Blyth, 24 August 1868; J. J. Weir, ? October 1868; J. N. Hegt, 11 December 1868, 23 April 1869; L. Nillson, 31 December 1868; J. V. Carus, 22 January 1869; F. Buckland, 27 February 1868, n.d.; T. Eyton, 4 March 1869, 26 January 1869; J. J. Weir, 26 May 1869; W. Aitchison to G. Cupples, 16 June 1869; J. Russell, 18 June 1869; G. Cupples, 20 June 1869; R. Elliot to G. Cupples, 21 June 1869; W. Aitchison, 25 June 1869; R. Elliot to G. Cupples, 25 June 1869; W. Aitchison, 30 June 1869; J. A. Oliver to G. Cupples, 3 July 1869; J. Graham to G. Cupples, 6 July 1869; J. Rait to G. Cupples, 20 July 1869; W. Elliot, 7 August 1869, 7 September 1869; G. Cupples, 13 September 1869; A. Jones, 17 November 1869;

Sir H. Holland to E. A. Darwin, 24 February ?; P. Robertson to G. Cupples, 16 January 1869; W. D. Fox, n.d. [2]; R. Russell, 28 July 1868; R. Trimen, 20 March 1868; H. Doubleday, n.d.; J. Wright, n.d.; Alex Wallace, 15 July ?; W. C. Marshall, 25 September ?; F. Cohn, n.d.; W. M. Canby, 1 October 1875; J. V. Carus, 21 December 1875; M. Schiff, 8 May 1876; H. N. Ridley, 15 April 1877; C. H. Blackley, 18 June 1877; W. C. Williamson, 23 October 1877; W. T. Dyer, 18 January 1878, n.d.; A. S. Wilson, 6 August 1878; G. H. Darwin to Messrs Clowes, 17 July 1875.

Notes of errata for *Insectivorous Plants* (1875).

Letter: G. H. Darwin to Messrs Clowes, 11 July 1875.

Notes of errata for *Insectivorous Plants* (1875).

Letters: J. J. Weir, ? 1868, 26 March 1868; H. Weir, 23 March 1869; W. B. Tegetmeier, 9 March 1868, 25 February 1868.

- 87 Material for 2nd edition of *The Descent of Man* (1874). Includes material for chapters 1–6, and relevant cuttings from journals, memoranda and photographs.

Letters:

Chapter 1: G. Rolleston, 22 February 1871; A. Nicols, 7 March 1871; G. W. Busk, 10 March 1871, 16 March 1871; M. B. Bathoe, 25 March 1871; H. Airy, 3 April 1871; E. R. Lankester, 17 April 1871; H. Nitzsche, 18 April 1871; H. Lonsdale, 3 May 1871; W. Preyer, 8 May 1871, n.d.; J. R. Clephan, 19 February 1873; S. J. Housley, 20 December 1872; J. Paget, 17 January 1873; J. L. Down, 20 December 1873, 28 December 1873, n.d.

Chapters 2 and 3: J. C. Houzeau, 24 February 1873; B. J. Sullivan, 11 March 1871; J. Jeremiah, 11 March 1871; C.D. to ?, 24 March 1871; G. F. Ansell, 8 April 1871; A. Smith, 17 April 1871; G. Cupples, 22 April 1871; R. B. Thompson, 27 April 1871.

Chapter 4: W. Reade, 10 January 1871; R. H. Tiddeman, 23 March 1871; J. Wood, 6 April 1871; J. N. Hoare, 10 April 1871; W. R. Greg, 2 March ?.

Chapter 5: T. N. Farrer, 3 March 1871, n.d.; L. Rudd, 12 April 1874; J. Morley, n.d.

Chapter 6: W. R. Grove, n.d.; M. Lessona, 9 August 1871

- 88 Material for 2nd edition of *The Descent of Man* (1874). Notes and memoranda on moral sense, mammals and birds.

Letters:

Moral sense: W. E. Darwin, n.d.; H. Wedgwood, n.d.; C.D. to H. Wedgwood, 3 March 1871; H. Wedgwood, n.d. [2]; C.D. to H. Wedgwood, 9 March 1871; H. E. Wedgwood to H. E. Darwin, 1 April 1871; J. Morley, 17 April 1871; H. Gillman, 29 May 1871; W. Reade, 18 February 1872; W. E. Darwin, n.d.

Mammals: J. E. Gray, 2 April 1871, 3 April 1871, 7 April 1871; W. H. van Zouteveen, 7 April 1871; H. Reeks, 25 May 1871, n.d.; J. V. Carus, 28 May 1871; H. Reeks, 30 May 1871; J. Lamont, 23 August 1871; J. L. A. Hope, 4 October 1871; W. D. Crotch, 24 October 1871, 17 November 1872; J. V. Carus, 20 November 1871; R. O. Jones to W. E. Darwin, 20 November 1871, 8 November 1871+ W. E. Darwin, 11 November 1871; C. J. F. Major, 18 October 1872; R. B. Langton?, p.c., 26 February 1873; W. D. Crotch, 14 November 1873; J. Peel, 4 December 1873; ?, n.d.

Birds: J. Cogland, n.d.; J. Morley, 30 March 1871; D. Wedderburn, 6 April 1871; A. Newton, 29 May 1871; H. Reeks, 12 June 1871; W. B. Tegetmeier, 17 June 1871, 13 May 1872; J. J. Weir, 14 August 1872, n.d.; D. Tyler, 15 August 1872; F. B. Johnston, 9 March 1873.

- 89 Material for the 2nd edition of *The Descent of Man* (1874). Includes notes on fish, insects, sexual selection, man—voice, music. [See box 142 for horse and human hair.]

Letters:

Fish: J. Wyman, 8 January 1860; T. W. Wood, 24 April 1871; W. Keen, 26 September 1873; A. Günther, 26 February 1874; Hollman, n.d.; A. Agassiz, n.d.

Insects: A. Humbert, ? January 1873; H. Marval, 15 September 1871; R. McLachlan, 20 February 1871; A. G. Butler, 29 June 1871; R. Meldola, 24 March 1873; A. R. Wallace, 7 August 1871; R. Meldola, 26 March 1872; F. Müller, 14 June 1871; A. G. Butler, 10 July 1871, 27 March 1873; J. V. Carus, 22 April 1871; G. Fraser, 12 April 1871, 13 April 1871; A. G. Butler, 26 May 1871; 2 June 1871.

Sexual selection, man—voice, music: W. Reade, 6 January 1870,

21 February 1871; J. Lubbock, 18 March ?; C. W. Peach, 1 May 1871; A. Smith, 16 May 1871; T. Bradfield, 1 June 1871; G. Rohlf, 6 June 1871; F. Simmons, 10 December 1871; G. H. Darwin, 2 May 1872; T. N. Staley, 12 February 1874, 20 February 1874, 25 February [1874]; W. B. Tegetmeier, n.d.; F. Chance, n.d.

- 90 Material for the 2nd edition of *The Descent of Man* (1874), including races, sexual selection, general principles, notes and proofs for errata, etc.

Letters:

Races: L. Darwin, n.d.; C. L. Bernays, 25 February 1871; W. H. van Zouteveen, 2 March 1871; H. H. Howarth, 3 January 1873; W. Dealtry, 16 January 1874; G. H. Nobbs to Sir H. Robinson (copy), 1 January 1873; H. M. Westropp, 20 April ?; T. M. Coan, 14 February 1874; W. Waring, 13 April 1874.

Sexual selection, general principles: G. B. Murdoch, 10 March 1871; P. B. Mason, 29 March 1871; C. A. Brett, 1 May 1871; W. E. Darwin, 5 June 1871; W. Waring, 9 January 1874; J. G. Grove, 19 January 1874; J. Downing, 29 January 1874; G. Cupples, 3 February 1874; E. L. Williams to G. Cupples, 10 February 1874; T. Morse to G. Cupples, 17 February 1874; W. B. Tegetmeier, 17 February 1874, n.d.; W. F. Rayner to G. Cupples, ? 1874; J. Wright to G. Cupples, 18 February 1874; G. W. Hickman to G. Cupples, 19 February 1874; J. W. Robertson to G. Cupples, 4 March 1874; W. N. Massey to G. Cupples, 9 March 1874; G. A. Graham to G. Cupples, 26 February 1874?; W. Forbes to J. W. Robertson, 4 March 1874; W. R. Greg, 14 March ?

- 91 Early notes on guns and shooting.

'Old and useless notes about the moral sense and some metaphysical points written about 1837 and earlier' (1838, 1839 and 1840).

Fragment of an autobiography, 'written August 1838'.

Miscellaneous material which was originally found with the notebook for 'Books to be read', 1838, vol. 119, and includes:

Letters: Williams and Norgate, 17 November 1857, 29 March 1860; D. Oliver, 8 November 1861; F. T. Köppen, 13 November 1874.

One loose sheet originally with 'Catalogue of the Scientific books read by C.D. in 1846'.

Letter: C. Lyell, 1 March 1866.

Rough draft of a sketch of A. R. Wallace's career, 1881.

Fair copy of C.D.'s life by himself, and list of his works.

Notes on Paley's *A View of the Evidences of Christianity* (1794); not dated but probably between 1836 and 1839, or earlier.

Copy of C. Darwin's account of J. S. Henslow contributed to L. Jenyns's *Memoir of the Rev. J. Henslow*, 1862.

- 92 Letters from C.D.: to Catherine Darwin, n.d.; to S. Darwin, 29 January 1826, 26 April 1838, n.d. [2], 27 April ?, n.d. [2]; to W. E. Darwin, 6 October 1858, (copy) 15 October 1858, n.d. [2]; to F. Müller, 8 December 1858, 28 February 1867; to Burleigh, 12 October 1864; to R. Caspary, 4 March 1866; to Bradshaw, 12 April 1876; to ?, 21 April 1876; to W. E. Darwin, 3 October 1877; to A. Rich, 4 February 1882; to T. H. Huxley, 27 January ? (+ 'Instructions to Naturalist').

Papers dealing with Samuel Butler's attack on C.D. Including general papers, fair copies of C.D.'s first and second letters to *The Athenæum*—which he ultimately rejected, cuttings from various journals—being reviews of Butler's *Evolution New and Old*, and Butler's letter to *The Athenæum*.

Letters: E. A. Darwin, 13 March 1879, 8 March 1879; R. Cooke, 25 October 1879, 6 September 1879; L. Darwin, 15 November 1879; J. Murray, 3 June ?, 3 September ?; E. Krause, 35 dated letters; S. Butler, 2 January 1880, 21 January 1880; L. Stephen, 12 January 1880; R. B. Litchfield, 1 February 1880 [2], 3 February 1880; T. H. Huxley, 3 February 1880; H. E. Litchfield to L. Stephen (copy), ? January 1881; R. B. and H. E. Litchfield, 5 January [1881]; H. E. Litchfield, n.d.; T. H. Huxley (copy), n.d.; C.D. to E. Krause (copy), 30 June 1877; C.D. to *The Athenæum*, 24 January 1880, 1 February 1880; C.D. to E. Krause?, 26 December 1880.

- 93 Letters by C.D.:

To J. S. Henslow, 56 letters arranged chronologically 1838–60.

To John Scott, 35 letters arranged chronologically [numbered 1–36, no. 33 is missing].

- 94 Letters from C.D. to Sir J. D. Hooker, 1848–73.
- 95 Letters from C.D. to Sir J. D. Hooker, 1873–81. Including letters from ? to C.D. (23 December 1874), from Emma Darwin to Sir J. D. Hooker (22 November 1874), and from Francis Darwin to Sir J. D. Hooker (17 March 1879), and one sheet signed by C.D., but bearing neither address nor date.
- 96 Drafts of letters by C.D., 1862–73. Also includes a few letters to C.D. from others, listed below.
H. Albertof, 13 February 1862; Soc. Imp. Zool. d'Acclimatatn., 10 January 1862; M. T. Masters, 28 March 1867; Schweizerbart?, n.d.; Williams and Norgate, 2 June 1868; Schultze, 4 August 1868; M. Wilckens, 25 March 1869; G. R. Gray, 9 July 1869; Soc. Anthr. de Paris, 9 December 1871; J. S. Craig, 4 November 1872; ?, 11 June 1872.
- 97 Letters to C.D., 1831–6, also some letters about him. These deal largely with the voyage of H.M.S. *Beagle*.
Letters: G. Peacock to J. S. Henslow, ? September 1831; J. S. Henslow, 24 August 1831; J. Wedgwood to R. Darwin (+ R. Darwin's objections to C.D. joining the H.M.S. *Beagle* expedition), 31 August 1831; G. Peacock, n.d.; J. S. Henslow, 31 August 1833; Catherine D., 28 January 1835; Susan D., 16 February 1835; Caroline D., 30 March 1835; Catherine, 30 October 1835; Susan D., 22 November 1835; Caroline D., 29 December 1835; Catherine D., 29 January 1836; Susan D., 12 February 1836; Caroline D., 28 March 1836.
Drafts of letters written by C.D., 1874, 1875. Includes also the following letters from others:
Kaiserliche Akad. der Wissenschaften (Vienna), 20 July 1875; R.S.P.C.A., 30 April 1875; E. T. W. Pflüger, 14 April 1875; T. Burgess, 13 May 1875; A. Günther, 14 February 1874; Northern Assurance Co., 14 March 1874; D. T. Gardner, 13 August 1874.
- 98 Letters to C.D., 1841–58.
C. Lyell, July 1841?; W. Owen, 26 March 1843; H. C. Watson, 8 letters, 1855–8; E. Blyth, 15 letters (numbered by C.D.) containing sets of notes made for C.D. by Blyth in Calcutta; C. C. Babington, 3 March 1858.

Letters to C.D. about the *Origin of Species*, 1859, 1860.

C. Lyell, 3 October 1859; C. Kingsley, 18 November 1859; H. C. Watson, 21 November 1859; T. H. Huxley, 23 November 1859; E. A. Darwin, 23 November 1859; F. Galton, 9 December 1859; A. Sedgwick, 24 December 1859; W. Whewell, 2 January 1860; A. Gray to J. D. Hooker, 5 January 1860; A. Gray, 23 January 1860; C. J. F. Bunbury, 30 January 1860; F. Booth, 29 February 1860; H. Fawcett, 16 July 1860; T. H. Huxley, 6 August 1860.

The correspondence on the *Origin of Species* between C.D. and W. H. Harvey, August to October 1860.

99 Letters to C.D., 1861–81.

T. Davidson, 3 May 1861; H. Falconer, 23 June 1861; G. Maw, 30 June 1862, 27 August 1862; R. Trimen, 16 June 1863; Edward Darwin, 7 September 1863; F. Ransome, 6 March 1865, 10 July 1866, 9 March 1865, 7 November 1864, 6 July 1866; T. H. Huxley, 3 March 1867; G. H. Lewes, 8 August 1868; Charlotte Darwin, 3 April 1871, 25 January ?; H. Ramu, 9 September 1871, 24 September 1871; T. H. Huxley, 20 September 1871, 28 September 1871; A. Hyatt, ? November 1872.

Correspondence and scraps about a holiday for T. H. Huxley: C.D. to T. H. Huxley, (rough draft) 25 April 1873; T. H. Huxley, 24 April 1873; C.D. to T. H. Huxley, (copy) 23 April 1873; T. H. Huxley, (copy of the above).

Letters about the Copley Medal: G. G. Stokes to T. H. Huxley, 5 December 1864 [2]; T. H. Huxley to G. G. Stokes, n.d.; G. G. Stokes to T. H. Huxley, 7 December 1864; T. H. Huxley to G. G. Stokes, n.d.; G. G. Stokes to T. H. Huxley, 8 December 1864; A. G. Butler, 24 August 1875; G. G. Stokes, 14 April 1876.

Congratulatory addresses from masters of colleges at Greiz and from editors of *Kosmos* on C.D.'s seventieth birthday, February 1879. Draft of C.D.'s reply.

Correspondence on *Erasmus Darwin*, by E. Krause: many letters from relatives, 1879–80. A few notes by C.D. included.

Letters from people who had known C.D. when young: A. H. Goodwin, 27 May 1881; E. J. Edwards, 28 June 1881; C. M. Owen, 29 May 1881, n.d.; J. B. B. Dykes, 1 September 1881.

Letter from C.D.'s children, sent with gift of fur coat, dated 17 January 1880.

Other letters: S. A. Haliburton, 12 December ?, 21 November ?; L. Tait, 18 January ?, 15 July [1880]; F. Müller, 9 January 1881.

- 100 Letters to C.D. from J. D. Hooker, 1843–62. [58 letters: where adequately dated, these are arranged chronologically, but many of them are fragmentary. Certain relevant notes by Darwin and Hooker are also included.]
- 101 Letters to C.D. from J. D. Hooker, 1862–4. Chronologically arranged.
- 102 Letters to C.D. from J. D. Hooker, 1865–8. Chronologically arranged.
- 103 Letters to C.D. from J. D. Hooker, 1869–74. Chronologically arranged.
- 104 Letters to C.D. from J. D. Hooker, 1875–82. Chronologically arranged. Also included are undated letters and fragments of letters: T. H. Huxley, 24 April 1873; notes from D. Oliver to J. D. Hooker, sent to C.D.; E. Lubbock, n.d.; H. Hooker, 9 letters; 3 scraps in C.D.'s hand.
- 105 Letters to C.D. from Francis Galton, 1869–82. Chronologically arranged.
- Letters to C.D. from E. A. Darwin, 1862–80. Also a letter from C.D. to E. A. Darwin, dated 20 September 1873; and 7 letters from E. A. Darwin to Emma Darwin, dated 1863–75.
- 106/7 Letters to C.D. from Samuel Butler, 1865–73. Includes one undated (April or May 1867?) to one of C.D.'s sons. Chronologically arranged.
- Letters to C.D. from A. R. Wallace, April 1862–October 1881. Chronologically arranged.
- Letters to C.D. from John Tyndall, 1868–78. Chronologically arranged.
- Miscellaneous letters to C.D.: A. Gray, 22 May 1858; G. H. Lewes, n.d., 2 March 1868, 26 July 1868, 30 July 1868, 12 November 1868; A. Gray, 11 June 1873; T. Burgess, 25 March 1875,

13 April 1875; F. Müller, 1 January 1882; M. F[oster], 18 January 1882; F. Galton, (notes) 9 December 1859.

Material collected by F. Darwin about his father (i.e. C.D.); corrections of *Life and letters of Charles Darwin* (1887); account of the voyage of H.M.S. *Beagle*, by P. G. King (copy). Letters: W. H. Fremantle to F. Darwin, 21 July 1888, 28 July 1888; F. Galton to F. Darwin, 28 June 1887; T. H. Huxley to F. Darwin, 9 April 1888, 20 April 1888; J. Lubbock to F. Darwin, 2 January 1896; J. M. Mackair to F. Darwin, 25 November 1887; G. Prestwich to F. Darwin, 16 June 1887; W. Sherb—(?) to F. Darwin, 20 September 1902; G. J. Stoney to F. Darwin, 17 May 1895, 18 May 1895; B. J. Sullivan to J. D. Hooker, n.d.; F. Darwin to T. H. Huxley (copy), 12 December 1882, ? 1882; W. E. and G. H. Darwin to T. H. Huxley, (copy) 28 April 1882.

Newspaper cuttings, mostly dealing with the fall of a church steeple, arbitrarily connected with the burial of C.D. in Westminster Abbey, 11 February 1894; notes on plants in spirits, Shrewsbury 1841, Maer 1841–2, Down 1843, September 1846; catalogue of plants in spirits, June 1842. [See Box 142 for dried specimens.]

- 108 Material used in C.D.'s work on the illegitimate progeny of dimorphic and trimorphic plants, including notes, tables, memoranda and press-cuttings, mainly on *Primulae*. Includes also letters, which are listed below: [See box 142 for specimens from vols. 108–11.]

Letters: L. Wedgwood, n.d.; W. E. Darwin, n.d., 22 March ?; D. Oliver, 27 February 1863; W. A. Leighton (?), n.d.; J. Scott, n.d., 6 December ?, ? April 1863.

- 109 Material on the illegitimate progeny of dimorphic and trimorphic plants: notes, memoranda and extracts from journals. Mainly on *Oxalis*, Thyme and Marjoram.

Letters: W. E. Darwin, 4 undated letters, 20 June ?, 29 June ?, 21 June ?; R. Caspary, n.d.; A. Gray, 11 October 1861, 10 February 1877, n.d.; J. S. Henslow, 21 November 1860?; W. H. Leggett to A. Gray, 14 October 1864; W. C. Marshall, 12 June 1864; J. T. Moggridge, 6 March 1867?; G. H. A. Thwaites,

- 17 February 1863; Catherine D., 6 July 1841; R. Spence (note); J. Scott, n.d.; G. Bentham, 29 November 1861; R. Trimen, 10 October 1863; F. Müller, 18 December 1869; W. H. Leggett, 15 January 1877.
- 110 Material on the illegitimate progeny of dimorphic and trimorphic plants; notes, memoranda, cuttings, etc., mainly on Rubiaceae and Primulaceae; groups of notes on *Pulmonaria* and *Mitchella*, etc.
- Letters: J. A. Henry, 16 May 1863; J. T. Moggridge, 19 July ?; H. Müller, 25 January 1877; J. T. Moggridge, 15 July ?; L. Wedgwood, 7 June 1869; W. E. Darwin, 12 May ?, 14 April 1864, 18 April 1864, 18 May ?, n.d., 14 July 1862, 19 May 1864, 24 May 1864; C. E. Bessey to A. Gray, 19 May 1877; C. C. Babington, 17 January 1862; H. D. Weddell, 13 May 1863; W. D. Fox, 3 April ?; A. Gray, 9 ? 1861, 31 December 1862, 4 August 1862, 21 November 1870, 22 December 1876, n.d.; J. D. Hooker, 18 December 1876; G. H. A. Thwaites, 15 May 1862; G. Bentham, 10 July 1864; F. Müller, 1 April 1867, 2 June 1867, 15 June 1869.
- 111 Material on the illegitimate progeny of dimorphic and trimorphic plants; notes, observations, memoranda, reprinted articles by C.D., general conclusions and remarks and groups of notes on *Primulae*.
- Letters: G. Bentham, 26 November 1861, 2 December ?; F. Delpino, 7 June 1871; T. N. Farrer, 5 May 1869; A. Gray, 5 September 1862, n.d.; F. Hildebrand, 19 March 1877; J. D. Hooker, 8 December 1876; J. T. Moggridge, 3 August ?; H. Müller, 2 April 1877; F. Müller, 25 March 1877; J. Scott, n.d.; J. Torrey, 6 June 1871; J. D. Hooker, n.d.; C. C. Babington, 16 March 1877; W. Breitenbach, (+copy) 26 July 1876; W. T. Dyer, n.d.; F. Müller, n.d.; D. Oliver, 13 September 1862, 25 November 1862.
- 112 Letters to Francis Darwin about C.D., collected for his *Life and Letters of Charles Darwin* (1887). Also includes various recollections of C.D.
- Letters: F. E. Abbot to W. E. Darwin, 3 September 1882; L. Z. Belinfante to A. C. Seward, 26 July 1901; G. Bentham, (copy) 30 May 1882; T. L. Brunton, 30 May 1883; T. Butler,

13 September 1882; W. J. Calman, 25 April 1912; J. H. L. Cameron, 15 September ?; C. F. Cox, 3 March 1889; E. H. Cradock, 10 July 1882; G. H. Darwin, n.d.; L. Darwin to W. E. Darwin, 26 January 1885, to F. Darwin, 7 July 1916; W. E. Darwin, 30 January ?; J. G. Evans, 20 June 1882; Földes-Weisz, 12 November 1887; L. M. Forster, ? January 1883, 16 November 1885, 30 November 1885; G. Fraser, 21 March 1888; F. Galton to W. E. Darwin, n.d.; W. H. Hamond, 19 September 1882; J. W. Heaviside, 15 September 1882; J. M. Herbert, 26 May 1882, 12 June 1882; J. D. Hooker, 19 June 1882; J. B. Innes, 20 June 1882, 26 June 1882; L. Blomefield to J. D. Hooker, (copy) 1 May 1882; G. King, 15 January 1900; P. G. King, 8 September 1882; J. D. La Touche, 7 January 1897; J. Leidy, 30 October 1902, 31 October 1902; H. E. Litchfield, 18 March 1887; A. Mellersh, 10 June 1882; W. M. Moorsom, 7 December 1882; F. Müller, 17 July 1882; ? 9 January 1883; G. E. Paget, 13 September 1882, 17 September 1882; J. M. Rodwell, 8 July 1882; Lord Sherbrooke, 27 November ?; L. Stokes, 16 September 1882; B. J. Sullivan, 12 December 1884, 11 June 1885; F. Watkins, 18 July ?; K. C. S. Wedgwood, 14 July 1889; H. E. Wedgwood, (copy) 15 December 1885.

W. C. Marshall (2 anecdotes); reminiscences by F. Darwin (note on religion); G. H. Darwin; A. Gaudrey, 'Le Rôle de Darwin considéré au point de vue de la paléontologie'; J. M. Herbert; T. H. Huxley (MS. of part of his chapter on the reception of *Origin of Species*, printed in *Life and Letters*, vol. II, p. 179-); J. B. Innes; letter: E. Lane to B. W. Richardson, n.d. (pamphlet); W. A. Leighton (reminiscences and copies of 2 letters from C.D.); Judd, n.d.; J. Price; J. M. Rodwell.

- 113 Sketch of species theory, 1844. Fair copy of vol. 7, annotated by C.D.
- 114 Letters of C.D. to J. D. Hooker, 1843-58.
- 115 Letters of C.D. to J. D. Hooker, 1859-66.
- 116 Notebook containing abstracts of, and notes on, the following books and papers:

C. F. von Gärtner: *Versuche und Beobachtungen über die Bastarderzeugung im Pflanzenreich* (Stuttgart, 1849) (also notes on re-reading book, June 1855).

J. T. Koelreuter: 'Lychni-cucubalus: novum plantae hybridae genus', *Novi comment. Acad. Scient. Imp. Petropol.* vol. xx (pro anno 1775), pp. 431-48.

J. T. Koelreuter: 'Lycia hybrida', *Acta Acad. Scient. Imp. Petropol.* (1778), pp. 219-24.

J. T. Koelreuter: 'Verbasca nova hybrida', *Acta Acad. Scient. Imp. Petropol.* (1781), pp. 249-70.

J. T. Koelreuter: 'Daturae novae hybridae', *Acta Acad. Scient. Imp. Petropol.* (pars post., 1781), pp. 303-13.

J. T. Koelreuter: 'Malvacei ordinis plantae novae hybridae', *Acta Acad. Scient. Imp. Petropol.* (pars post., 1786), pp. 251-88.

J. T. Koelreuter: 'Lina hybrida', *Nova Acta Acad. Scient. Imp. Petropol.* vol. i (1783), pp. 339-46.

J. T. Koelreuter: 'Dianthi novi hybridi', *Nova Acta Acad. Scient. Imp. Petropol.* vol. iii (1785), pp. 277-84.

J. T. Koelreuter: 'Mirab. Ialapae hybridae', *Nova Acta Acad. Scient. Imp. Petropol.* vol. xi (1793), pp. 389-99.

J. T. Koelreuter: 'Mirabil. Ialaparum hybridarum continuata descriptionis', *Nova Acta Acad. Scient. Imp. Petropol.* vol. xii (1794), pp. 378-98.

J. T. Koelreuter: [the above continued], *Nova Acta Acad. Scient. Imp. Petropol.* vol. xiii (1795), pp. 305-35.

J. T. Koelreuter: 'Spicilegium ultimum & additamenta', *Nova Acta Acad. Scient. Imp. Petropol.* vol. xiv (1797), pp. 373-408.

J. T. Koelreuter: 'Digitales hybrides', *J. Physique*, vol. xxi (1782), pp. 285-306.

J. T. Koelreuter: 'Lobélies hybrides', *J. Physique*, vol. xxiii (1783), pp. 100-5.

J. B. van Mous: *Les arbres fruitiers et leur culture*, vol. i (Louvain, 1835).

E. Claparède: 'Histologische Untersuchungen über den Regenwurm: Lumbricus terrestris', *Zeitschr. wissensch. Zoologie*, vol. xix (1869), pp. 563-624.

Notes on the Fortsetzungen in J. T. Koelreuter's *Vorläufige Nachrichten, von einigen das Geschlecht der Pflanzen betreffenden Versuchen und Beobachtungen, nebst Fortsetzungen*, 1, 2 and 3 (1761–6).

- 117 Early notebook, containing notes and diagrams of flowers, which belonged to W. E. Darwin.
- 118 Early notebook, containing observations made by C.D. when he was at Edinburgh, March 1827.
- 119 Notebook of 'Books to be read', 1838. [The miscellaneous material which was originally loose between its pages is now to be found in no. 91.]
- 120 Catalogue of the scientific books read by C.D. in 1846. [The single loose sheet which was discovered between its pages is in no. 91.]
- 121 'B' notebook dealing with evolution theory 'commenced... July 1837'.
- 122 'C' notebook dealing with evolution theory. February–July 1838.
- 123 'D' notebook dealing with evolution theory, 'July 15th 1838. Finished October 2nd'.
- 124 'E' notebook dealing with evolution theory, 'Finished July 10th 1839'.
- 125 'M' notebook dealing with 'expression. This book full of metaphysics on morals and speculations on expression. July 15th 1838.'
- 126 'N' notebook dealing with 'expression. Metaphysics and expression. Begun 2 October 1838.'
- 127 'A' notebook 'As far as p. 33 distributed to several subjects. As far as p. 140 abstracted as far as concerns Geolog. observations on Volcanic Islands and Coral Formation. 24 February 1839.'
- 128 Notebook 'Books read and to be read', 1852–60.
- 129 Diary for 1826, with entries about birds, beasts and flowers seen on walks.

- 130 Glen Roy notebook, 1838.
- 131 G. W. Featherstonhaugh: *Report of a Geological Reconnoissance...* (Washington, 1836).
- 132 (1) British Association for the Advancement of Science: Historical and descriptive catalogue of the Darwin Memorial at Down House, Downe, Kent (35 pp.).
- (2) Dr A. Burgerstein: *Charles Robert Darwin: eine Skizze seines Leben und Schaffens* (Wien, 1889. 80 pp.).
- (3) Carlyle's supposed attack on C.D., and refutation. Two newspaper cuttings, from *The Times* (? January 1877) and the *Record* (14 February 1877).
- (4) Charles O'Shaughnessy: *Darwin Confounded* (Cork, 1876. 23 pp.).
- (5) F. Delpino: *Rivista Botanica* (Milan, 1876).
- (6) C. Darwin: letter on holly berries. A cutting from the *Gardeners' Chron.* (6 January 1877).
- (7) Charles Darwin: *Manual of Geology* [extracted from the Admiralty *Manual of Scientific Enquiry*, 3rd edition, 1859]. (London. 34 pp.)
- 133 (1) Copy of a notice [which appears to have been only rarely used] expressing thanks for a letter sent to C.D. which he is unable to answer personally.
- (2) T. H. Huxley: Obituary notice of C.D. [reprinted from the *Proc. Royal Society*, vol. XLIV].
- (3) F. W. Hutton: *Darwinism*. A lecture given at the Philosophical Institute of Canterbury College, University of N.Z. 12 September 1887. (Christchurch, 1887. 30 pp.)
- (4) *Deutsche Rundschau*. 17 Jahrgang, Heft 9: 'Briefe von Darwin. Mit Erinnerungen... von Prof. W. Prener' (Berlin, 1891. Pp. 356-90).
- (5) Pamphlets and reviews concerning *Erasmus Darwin*. Various dates about 1880.
- (6) C. Wright: *Darwinism: An Examination of Mr St George Mivart's Genesis of Species* [reprinted from the *North American Rev.*, July 1871, with additions]. (London, 1871. 46 pp.)

- (7) Asa Gray: *A Free Examination of Darwin's Treatise On the Origin of Species and of its American Reviewers* [reprinted from the *Atlantic Monthly* for July, August and October 1860]. (London, 1861. 55 pp.)
 - (8) Descriptions of *Beagle* specimens. Mostly extracts from the *Annals and Mag. Natural History*, includes G. R. Waterhouse on C.D.'s collection of carabideous insects, Adam White on descriptions of little known Arachnidae, F. Walker on Chalcidites from Lima, Valparaiso, Valdivia, Concepción, Chonos and Coquimbo.
 - (9) A. R. Wallace on 'The Geographical Distribution of Birds' (from the *Ibis*, October 1859. 6 pp.).
 - (10) A. R. Wallace: 'On the Physical Geography of the Malay Archipelago' (*Royal Geographical Soc.*, 8 June 1863. 18 pp.).
 - (11) A. R. Wallace: 'On Pigeons of the Malay Archipelago' (from the *Ibis*, October 1865. Pp. 366-400).
 - (12) A. R. Wallace: 'The Philosophy of Birds' Nests' (the *Intellectual Observer*, July 1867. Pp. 413-20).
 - (13) A. R. Wallace: 'Mimicry and other Protective Resemblances among Animals' (*Westminster and Foreign Quarterly Rev.*, July 1867. Pp. 1-43).
 - (14) A. R. Wallace: criticism of Sir C. Lyell on Geological Climates and the *Origin of Species* (*Quarterly Rev.*, April 1869. Pp. 359-94).
 - (15) A. R. Wallace: *Address at the Anniversary Meeting of the Entomological Society of London* (January 1871. 28 pp.).
 - (16) A. R. Wallace: *Address at the Anniversary Meeting of the Entomological Society of London* (January 1872. 28 pp.).
 - (17) *Quarterly J. Science* (January 1873). Notice [by A. R. Wallace] of *The Expression of the Emotions in Man and Animals*. (Pp. 113-18.)
 - (18) A. R. Wallace: 'The Colour of Animals and Plants—i. Animals' (*Macmillan's Mag.*, September 1877. Pp. 384-408).
 - (19) Printed cuttings, etc. on heterostyled plants, polygamous plants and cleistogamic flowers. Various dates to 1881.
- 134 Short reviews, articles, and addresses on C.D.'s life and work (dated mostly 1887-8). Including:
- (1) *The Edinburgh Rev.* (April 1888. Pp. 407-48).

- (2) *Chambers J.* (February 1888. Pp. 49–52).
 - (3) J. T. Cunningham: *Charles Darwin* (The Round Table Series, no. 5. 32 pp.).
 - (4) *Murray's Magazine*: 'The Life of Darwin' (pp. 145–60).
 - (5) Address to the biological section of the British Association, by Alfred Newton (Manchester, 1887. 8 pp.).
 - (6) *Bulletin Critique* (15 April 1888. Pp. 152–6).
 - (7) 'Darwin's Life and Letters', extracted from the *Dublin Rev.* (April 1888. Pp. 336–53).
 - (8) *The Reflector* (15 January 1888. Pp. 35–8).
 - (9) Address delivered at...the Geological Soc. of London, by Prof. J. W. Judd (London, 1887. 57 pp.).
 - (10) *The Institute Mag.* (October 1888. Pp. 17–23).
 - (11) A. de Candolle: 'Darwin, considéré au point de vue des causes de son succès et de l'importance de ses travaux', extract from *Les Archives des Sciences de la Bibliothèque Universelle* (May 1882. 16 pp.).
 - (12) *The Contemporary Rev.* (June 1888. Pp. 836–54). G. J. Romanes: 'Recent Critics of Darwinism.'
 - (13) *Unsere Zeit* (Heft 9, 1888. Pp. 275–81).
 - (14) *Blackwood's Edinburgh Mag.* (January 1888. Pp. 104–15).
 - (15) *Das Ausland*... (26 March 1892. Pp. 193–8).
 - (16) *Das Ausland*... (2 April 1892. Pp. 215–18).
- 135 (1) Henry D. Rogers: *Description of the Geology of the State of New Jersey, being a final report* (Philadelphia, 1840. 301 pp.). [Wants map.]
- (2) S. G. Morton: *Description of Some New Species of Organic Remains* (Philadelphia, 1842), [reprint from the *J. Academy of Natural Sciences*, 8, 1842]. (21 pp.)
 - (3) Asa Gray: 'Statistics of the Flora of the Northern United States', annotated by C.D. [extracts from the *American J. Science and Arts*, vols. XXII and XXIII, series 2, pp. 1–59, 62–84, 369–404]; scrap in C.D.'s hand.
 - (4) Cuttings from *Chronicles of Science* (January 1869): 'The Alleged Failure of Natural Selection in the Case of Man' (pp. 152–3).

- (5) *Popular Science Review* (January 1868), M. T. Masters: 'Sensitive Plants' (pp. 22–34); *ibid.* (October 1872), A. W. Bennett: 'Spontaneous Movement in Plants' (pp. 368–80).
- (6) Letters from C.D. to J. S. Henslow, printed for distribution among members of the Cambridge Philosophical Society, 1835.
- (7) 'Notes on the Effects Produced by the Ancient Glaciers of Caernarvonshire and on the Boulders Transported by Floating Ice' [extract from the *London Philosophical Mag.* vol. XXI (1842), pp. 180–8].
- (8) 'Brief Descriptions of Several Terrestrial *Planariae* and of Some Remarkable Marine Species, with an Account of their Habits' (reprint from *Annals and Mag. Natural History*, vol. XIV (1844), pp. 241–51).
- (9) 'An Account of the Fine Dust which Often Falls on Vessels in the Atlantic Ocean' (*Geological Soc. J.* vol. II (1846), pp. 26–30).
- (10) 'On the Geology of the Falkland Islands' (*Geological Soc. J.* vol. II (1846), pp. 267–74).
- (11) 'On the Power of Icebergs to Make Rectilinear, Uniformly-directed Grooves Across a Submarine Undulatory Surface' [in C.D.'s hand, on the cover, are the words 'On Icebergs scratching rocks'] (printed from the *Philosophical Mag.* (August 1855). 4 pp.).
- (12) 'On the Action of Seawater on the Germination of Seeds' (*J. Linnean Soc. (Botany)*, vol. I, no. 3 (1856), pp. 130–40).
- (13) 'On the Tendency of Species to Form Varieties; and on the Perpetuation of Varieties and Species by Natural Means of Selection', by C.D. and Alfred Wallace (*J. Linnean Soc. (Botany)*, vol. III, no. 9 (1858), pp. 45–62).
- (14) 'Notes on the Habits of the Pampas Woodpecker (*Colaptes campestris*)', (*Proc. Zoological Soc.*, 1 November 1870, pp. 705–6).
- (15) Proof sheets for the 2nd (revised) edition of *The Structure and Distribution of Coral Reefs* (London, 1874).
- (16) 'A Biographical Sketch of an Infant' (extract from *Mind* of July 1877, pp. 285–94). [For a Greek translation of this, see no. 139⁽⁶⁾.]

- (17) 'The Action of Carbonate of Ammonia on the Roots of Certain Plants' (extract from *J. Linnean Soc. (Botany)*, vol. xix (1882), pp. 239-61).
- (18) *Unpublished Letters of C.D. in the Collection of C. F. Fox* (New York. xl pp.).
- 136 (1) Letters from C.D. Esq. to A. Hancock Esq. (from the *Natural History Transactions of Northumberland, Durham, and Newcastle upon Tyne*, vol. viii, 29 pp.).
- (2) H. D. Rogers: *Second Annual Report on the Geological Exploration of the State of Pennsylvania* (Harrisburg, 1838. 91 pp.).
- (3) Dr H. Crüger: 'A Few Notes on the Fecundation of Orchids...' (from the *J. Linnean Soc. (Botany)*, vol. viii, pp. 127-35).
- (4) *The Bot. Gaz.* (February 1879. Pp. 123-4).
- (5) G. Jaeger: *Die Darwinische Theorie...* (Stuttgart, 1869. Pp. 65-150).
- (6) *The American Naturalist* (March 1878. Pp. 161 ff.). J. M. Anders: 'The Transpiration of Plants.'
- (7) *Separatabzug aus den Sitzungsberichten des Botanischen Vereins der Provinz Brandenburg*, xix (29 June 1877).
- (8) O. Kuntze: *Die Schutzmittel der Pflanzen gegen Thiere und Wetterungunst...* (Leipzig, 1877. 149 pp.).
- (9) C. H. Blackley: *New Observations on Hay Fever...* (London, 1877. 17 pp.).
- (10) W. Thompson: *Descriptive Catalogue of Flower Seeds* (Ipswich, 1877. 46 pp.).
- (11) H. Hoffmann: *Culturversuche (Separatabdruck aus der Botanischen Zeitung*, 1877. 19 pp.).
- (12) *Bulletin de la Société Botanique de France*, vol. xxiii (1876. Pp. 243 ff.). M. E. Mer: 'Des effets de l'immersion sur les feuilles aériennes.'
- (13) *Revue Horticole* (16 November 1875).
- (14) A. Kerner: *Die Schutzmittel des Pollens (Separatabdruck aus den Berichten des Naturw.-med. Vereines zu Innsbruck. II. und III. Jahrgang 1872).*

- (15) H. Baillon and J.-L. de Lanessan: 'L'absorption de l'eau par les feuilles' (the *Bulletin de la Société Linéenne de Paris* for July 1874 and January 1875).
- (16) State of New York. Assembly no. 50: Communication from the Governor concerning the Geological Survey of the State (24 January 1840).
- 137 State of New York. Senate, no. 64 (2 March 1840); Assembly, communications from the Governor concerning the Geological Survey of the State. 4 numbers, dated thus: no. 150 (17 February 1841), no. 161 (11 February 1873), no. 200 (20 February 1838), no. 275 (27 February 1839).
- 138 (1) Press-cuttings on C.D.'s death and funeral. Mostly from French newspapers. All mounted.
- (2) *The Medical Times and Gazette*. 7 numbers, dated: 17 May 1856, 21 June 1856, 26 July 1856, 9 August 1856, 27 December 1856, 11 April 1857, 22 August 1857.
- (3) *The Field*. 6 numbers, dated: 19 November 1864, 3 December 1864, 31 December 1864, 18 February 1865, 4 March 1865, 1 April 1865.
- (4) J. Künckel: *Les Lépidoptères à trompe perforante, destructeurs des oranges* (Paris, 1875. 3 pp.).
- (5) Letter: 'To the Members of the Down Friendly Club' by 'Your Faithful Treasurer, Charles Darwin' (19 February 1877).
- 139 (1) C.D.'s accounts with John Murray for 1881, recording sales of books.
- (2) Speech made by the Public Orator on C.D.'s honorary degree at Cambridge (17 November 1877).
- (3) *The Athenæum*. Index for the year 1847.
- (4) Isaac Hays: 'Descriptions of the Inferior Maxillary Bones of Mastodons in the Cabinet of the American Philosophical Society...' (from *Trans. American Phil. Soc.* vol. iv, N.S. (1833)).
- (5) David Milne: *On the Parallel Roads of Lochaber*... (Edinburgh, 1847).
- (6) Βιογραφικὸν σχεδιάσμα μικροῦ τινος παιδίου. [A Greek translation of C.D.'s 'Biographical Sketch of an Infant'.] (Εσθία, 1877.)

(7) 'On the Formation of Mould' (*Geological Soc. Trans.* vol. v (1840), pp. 505-10).

(8) 'On the Connexion of Certain Volcanic Phenomena in South America; and on the Formation of Mountain Chains and Volcanos as the Effect of the Same Power by Which Continents are Elevated' (*Geological Soc. Trans.* vol. v (1840), pp. 601-32).

(9) 'Observations on the Parallel Roads of Glen Roy...' (*Philosophical Trans.* (1839), pp. 39-82).

(10) 'On the Distribution of the Erratic Boulders and on the Contemporaneous Unstratified Deposits of South America' (*Geological Soc. Trans.* vol. vi (1842), pp. 415-32).

(11) A collection of material concerning H. Festing Jones's *Charles Darwin and Samuel Butler: A Step Towards Reconciliation*. Reviews of the book, 1910-11, and correspondence, including: H. Festing Jones to F. Darwin, 24 September 1910; H. E. Lichfield to F. Darwin, 14 October 1910; W. E. Darwin to F. Darwin, 17 October 1910; L. Darwin to F. Darwin, 21 October 1910.

Rough draft of a letter to H. Festing Jones from F. Darwin, 3 November 1910.

Typescript of pamphlet by H. Festing Jones.

Press-cuttings.

(12) A collection of material concerning C.D.'s religion:

F. O. Morris: *All the Articles of the Darwin Faith* (50 pp.).

E. B. Aveling: *The Religious Views of Charles Darwin* (8 pp.).

The Index for 23 December 1871 and 12 March 1874.

His Grace the Archbishop of Canterbury, a speech at the annual meeting of the South American Missionary Soc., 21 April 1885.

Letters: C.D. to J. D. Hooker, 10 October ? (copy); J. F. Heyes to F. Darwin, 3 December 1885; Edw. Cantuar to J. F. Heyes, 15 May 1885 (copy); F. J. Wedgwood to F. Darwin, 3 October 1884.

Various other copies of letters, by C.D. and others, relating to the same subject.

(13) *Nature*: A collection of articles on cross-fertilization, 1869-76. Other miscellaneous articles, collected between 1873-77, with certain relevant notes in C.D.'s hand.

(14) *The Revue Scientifique* for 27 September 1873 and 18 August 1877.

(15) A. Kerner: *Die Schutzmittel der Blüthen gegen unberufene Gäste* (Wien, 1876. 75 pp.).

(16) *The Spectator*: Cuttings on natural and supernatural selection, 3 October 1868 and 17 October 1868.

(17) A collection of material on vivisection, of various dates, 1881.

Rough draft of petition.

Draft of Act restricting vivisection of dumb animals.

Sketch of Bill no. 1: Experiments on Animals.

Sketch of Bill, 24 April 1875.

Bill, 1875: Experiments on Animals.

A few remarks in reply to a lecture on vivisection delivered before the...Hull Literary and Philosophical Society by Dr Pye Smith on 28 December 1880. (London.)

'The Woman'..., by...members...of the International Association for the Total Suppression of Vivisection (1881).

Cutting from *The Lancet*, 26 March 1881.

Correspondence with C.D....on experimenting upon living animals (1881).

C.D.'s letter to Professor Holmgren, 14 April 1881 (newspaper-cutting); draft of a letter from C.D. to Professor Holmgren.

Nature: cutting, 21 April 1881.

The Spectator: cutting, 23 April 1881.

The Times: cuttings, 25 April 1881 and 30 April 1881, two of 9 May 1881.

The Zoophilist, supplement to, 2 May 1881.

Correspondence in *The Times* on vivisection, April 1881.

(18) Reviews, press-cuttings, etc., about *Insectivorous Plants* (1875).

Includes also an abstract of Francis Darwin's paper on *Drosera*, read before the Linnaean Society, 17 January 1878.

(19) *Nature*: cutting (7 September 1876). British Association, Section D, Biology. Opening address by the President, A. R. Wallace.

(20) *The Gardeners' Chronicle* (29 December 1877), cutting on 'Growth Under Difficulties'.

140 (1) Miscellaneous material about C.D., including:

Photographs, engravings and written sketches.

Congratulatory verses by C. Hoare.

Address by the Public Orator of Cambridge University for C.D.'s honorary degree, 17 November 1877, and a translation of it.

Cuttings from newspapers, dealing with the (above) ceremony, etc.

Cuttings dealing with C.D. and religion, etc. from *The Index* and many other journals.

(2) C.D.'s personal journal (1809–81). [Copy.]

(3) Recollections of C.D. by Francis Darwin. [Some parts of this are incorporated in his edition of *The Life and Letters of Charles Darwin*, but most of it does not appear to be published. It consists of 159 sheets of fragile paper; the hand seems to be that of F. Darwin; the ink has faded.]

(4) A collection of caricatures, cartoons and sketches of C.D.; including many cuttings from journals. Two cuttings on Darwin and Carlyle.

(5) Material concerning C.D.'s death and funeral, including: M. J. Savage: *Darwin—The Significance of His Life and Work* (Boston, 1882. 15 pp.); report of the committee of the Darwin Memorial Fund (1888); the words of the anthem, lists of mourners, written list of family procession, tickets, etc. for C.D.'s funeral in Westminster Abbey.

Also a large collection of cuttings from journals—leading articles, reports of the funeral, accounts of C.D.'s life and work, and reviews of Francis Darwin's *Life and Letters of Charles Darwin*.

(6) Proof sheets of *On the Various Contrivances by which Orchids are Fertilized by Insects* (2nd edition, published 1877). [Corrected by C.D.]

141 [Flat folder.]

This contains large-size portraits and engravings of C.D., some caricatures, and one engraving of his study at Down.

Also included is the Declaration by the British Association for the Advancement of Science to the University of Cambridge at C.D.'s centenary.

- 142 [Box containing specimens of seeds, dried flowers, photograph plates.]

[From the material with no. 27i: Beans:]

1857—12 numbered packets.

1858—12 numbered packets.

1 packet ('Dwarfs—marked with scarlet runners').

1 packet ('Haricot pod').

[From the material with no. 53:]

Photographs—2 glass plates and one proof, direct and reversed.

[From the material with no. 63:]

Chalk powder.

[From the material with nos. 69 and 70:]

Pressed specimens.

Envelope dated by C.D. 24 September 1862, containing dried parts of plants sent by A. G. More.

Envelope (from A. Gray) containing dried plants, and a botanical drawing signed J.M., with specimen attached (dated 5 June 1866). Also a scrap of letter from F. Müller (2 August 1866).

Envelope marked Birds Nest Orchids, Leith Hill Place, 10 August 1862, containing two packets of specimens.

J. P. M. Weale: 'Notes on Structure and Fertilization of the Genus *Bonatea*', folded round specimens of orchids.

[From the material with no. 84:]

Feathers of Java peacock and Argos pheasant.

[From the material with no. 85:]

Letter to C.D. from W. B. Tegetmeier (25 May 1868), enclosing hen's feathers.

Draft of C.D.'s reply.

Envelope postmarked, Paris 29 September 1869, containing 3 feathers.

Envelope postmarked, London 29 September 1869, containing 3 feathers.

Small piece of paper with feathers attached—notes by W. B. Tegetmeier (30 June 1869).

[From the material with no. 89:]

Letter from F. Müller (16 January 1872), enclosing small packet of seeds.

Envelope from F. Müller containing butterflies' wings gummed to paper.

Envelope with notes on it containing horsehair; hair from beard and whiskers.

[From the material with no. 106/7:]

Dried specimens in envelopes. (Taken Shrewsbury & Maer, 1841.)

[From the material with nos. 108–11 (dimorphic and trimorphic plants):]

Pressed flowers.

Letters from F. Müller, dated 1 October 1866, 2 November 1866, and 31 October 1868, 4 March 1867, with pressed flowers gummed to them.

Small packet of plants in envelope postmarked, Cambridge 21 May 1864.

Unwrapped plants in envelopes postmarked, London 16 May 1864 and 20 May 1864.

Envelope dated by C.D. 2 August 1866, containing botanical drawings and specimen of orchids from F. Müller.

Envelope postmarked, London 16 September 1862, containing many small packets of *Lythrum Graefferi*.

Envelope dated by C.D. 26 August 1868, containing pressed specimens and a botanical drawing of *Oxalis*.

[Boxes 143–54 containing copies of letters and notes by C.D. to various correspondents, including copies of the Darwin-Hooker correspondence.]

143 A–Donders.

144 DuBois–Haliburton. [For Asa Gray, see no. 153.]

- 145 Harris-Jenyns.
 - 146 Johnson-Murdoch.
 - 147 Murray-Tait. [For John Scott, see no. 154.]
 - 148 Talbot-Zaccharias.
 - 149 C.D.'s *Recollections of the Development of my Mind and Character* (copy).
Copy for press of vol. 1 of *More Letters of Charles Darwin*,
edited by F. Darwin and A. C. Seward (2 vols., London, 1903).
 - 150 C.D.-J. D. Hooker correspondence (1843-July 1874).
 - 151 C.D.-J. D. Hooker correspondence (July 1874-October 1881).
 - 152 The letters of J. D. Hooker to C.D.
 - 153 C.D. to Asa Gray.
Family letters, part I.
 - 154 Family letters, part II.
C.D. to John Scott.
3 letters: G. H. Darwin and W. E. Darwin to T. H. Huxley
(report of séance, 1874).
C.D.'s notes on *Zoonomia*, by Erasmus Darwin (1837-8).
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- 155 A collection of newspaper-cuttings about C.D.—all posthumous.
 - 156 Correspondence between certain members of the Darwin family, the British Association, etc., and the University Library, Cambridge, on the gift of the Darwin MSS. (1942-49).
 - 157 Leaves of MS. of the *Origin of Species* as printed in 1859; leaves of first draft of *The Descent of Man*.

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