



## Dates of publication of the *Zoology* parts of the *Report of the Scientific Results of the Voyage of H.M.S. Challenger During the Years 1873–76*

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### Abstract

The dates of publication and exact titles of the 83 parts of the *Zoology* of the *Report of the Scientific Results of the Voyage of H.M.S. Challenger During the Years 1873–76* are presented. Exact dates of publication for 71 of these parts have been determined using notices of their publication in contemporary publications. The dates of publication of the two *Narrative* volumes of the voyage of the H.M.S. *Challenger* (which contain available indications of new names) are also determined.

**Key words:** H.M.S. *Challenger*, Britain, expedition, voyage, collation, dating, ICZN

### Introduction

The multi-volume *Report of the Scientific Results of the Voyage of H.M.S. Challenger During the Years 1873–76* has been described as “the most productive deep sea expedition, both in terms of new knowledge acquired and of the number of new species described” (Lingwood 1969: 71). Despite the importance of the *Reports*, no studies have discussed the dates of publication of the *Zoology* volumes of the *Report of the Scientific Results of the Voyage of H.M.S. Challenger During the Years 1873–76* (hereafter the *Zoology* of H.M.S. *Challenger*), which comprise 32 of the 50 volumes of the entire *Reports* series. Murray (1895: xxiv) stated that the *Zoology* of H.M.S. *Challenger* were bound in “forty volumes”, and this listing of eight additional ‘volumes’ can be accounted for by the fact that volumes 22, 51, 52, 53 were divided into two volumes each (one of text and one of plates) and volumes 40 and 67 were divided into three volumes each (two of text and one of plates) (see Table 1).

In Table 1, we provide the dates of publication and exact titles of the parts of the *Zoology* of H.M.S. *Challenger* (Figs. 1, 2), as well as the two *Narrative* volumes which contain available indications of new names (see Frogliani & Clark 2011). The *Zoology* of H.M.S. *Challenger* was published in 83 parts which, with the exception of the last, are contained in the 32 volumes of the *Zoology* of H.M.S. *Challenger* (Table 1). It should be noted that while volumes of the *Zoology* of H.M.S. *Challenger* were published chronologically, the parts were not (Table 1).

### Brief History and Description of the Work

The *Reports* of the *Challenger* Expedition comprise studies on physics, chemistry, meteorology, geology, petrology, botany, and zoology. These are found in 50 royal quarto volumes published from 1880–1895.

( *Provisional Title* )

R E P O R T  
ON THE  
SCIENTIFIC RESULTS  
OF THE  
VOYAGE OF H.M.S. CHALLENGER

DURING THE YEARS 1873-76

UNDER THE COMMAND OF  
CAPTAIN GEORGE S. NARES, R.N., F.R.S.

AND

CAPTAIN FRANK TURLE THOMSON, R.N.



PREPARED UNDER THE SUPERINTENDENCE OF

Sir C. WYVILLE THOMSON, Knt., F.R.S., &c.

REGIUS PROFESSOR OF NATURAL HISTORY IN THE UNIVERSITY OF EDINBURGH  
DIRECTOR OF THE CIVILIAN SCIENTIFIC STAFF ON BOARD

ZOOLOGY—VOL. I.

Published by Order of Her Majesty's Government

PRINTED FOR HER MAJESTY'S STATIONERY OFFICE

AND SOLD BY

LONDON :—LONGMANS & CO.; JOHN MURRAY; MACMILLAN & CO.; SIMPKIN, MARSHALL, & CO.

TRÜBNER & CO.; E. STANFORD; J. D. POTTER; AND C. KEGAN, PAUL, & CO.

EDINBURGH :—ADAM & CHARLES BLACK AND DOUGLAS & FOULIS

DUBLIN :—A. THOM & CO. AND HODGES, FOSTER, & FIGGIS

1880

*Price Thirty-seven Shillings and Sixpence.*

**FIGURE 1.** The title-page of the first volume of the *Zoology of the Report on the Scientific Results of the H.M.S. Challenger During the Years 1873–76*. Image from a work no longer in copyright held by the library of the Woods Hole Oceanographic Institute and digitised under the Biodiversity Heritage Library initiative (see text for details). Note, the first line “( Provisional Title )” was removed from the title page for volume IV and successive volumes (see Fig. 2).

Figure 1 shows the title-page of the first volume of the *Zoology*. Longmans was the primary publisher for the first 16 volumes of the *Zoology* parts and Neill and Company in Edinburgh was the printer for the entire zoology series except volume 15, which was printed by Ballantyne, Hanson and Company, Edinburgh (who also printed the *Botany* volumes that appeared at around the same time). Eyre & Spottiswoode in London took over as the major publisher from volume 17 onwards.

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LONDON:—LONGMANS & CO.; JOHN MURRAY; MACMILLAN & CO.; SIMPKIN, MARSHALL, & CO.  
TRÜBNER & CO.; E. STANFORD; J. D. POTTER; AND KEGAN PAUL, TRENCH, & CO.  
EDINBURGH:—ADAM & CHARLES BLACK AND DOUGLAS & FOULIS.  
DUBLIN:—A. THOM & CO. AND HODGES, FIGGIS, & CO.

1882

*Price Fifty Shillings*

**FIGURE 2.** The title-page of the fourth volume of the *Zoology of the Report on the Scientific Results of the H.M.S. Challenger During the Years 1873-76*. Image from a work no longer in copyright held by the library of the Woods Hole Oceanographic Institute and digitised under the Biodiversity Heritage Library initiative (see text for details). Note, the first line “( Provisional Title )” was removed from the title page of this and successive volumes (see Fig. 1).

Scottish naturalist and marine zoologist, Charles Wyville Thompson (1830-1882), was the original coordinator of the series until ill-health contracted in 1877 forced him to finally step down in late 1881. Oceanographer and marine biologist John Murray (1831-1914) succeeded him in January 1882 and Wyville Thompson died two months later. The title-page for each of the first three volumes has “( Provisional Title )” printed at the top (see Fig. 1) because the order and format of the *Reports* had not been formalized while Wyville Thompson was alive but in ill-health. When Murray took over in 1882 his name was added to the title page and the

“( Provisional Title )” line was removed (Fig. 2). Murray continued direction of the *Reports* through to the last summary volume that appeared in 1895. A special commemorative volume (published by Dulau, London) with portraits and signatures of most of the 76 authors who contributed to the *Reports*, was presented to Murray in 1897.

## Dating the *Zoology of the H.M.S. Challenger*

### Contemporary notices

By utilising notices of the volumes of the *Zoology of H.M.S. Challenger* as they were published in contemporary publications (see Table 1; Appendix), accurate dates of publications for 71 of the 83 parts of the *Zoology of H.M.S. Challenger* and both the *Narrative* volumes have been determined (Table 1).

### Specimen copies of the first seven parts

On 31 August 1880 at a *British Association for the Advancement of Science* meeting, “Mr. Sclater, on behalf of Sir C. Wyville Thomson, who was unable to attend the meeting, laid on the table specimen copies of the following reports on the zoological results obtained during the voyage of H.M.S. ‘Challenger.’ These reports would ultimately form the first volume of the ‘Zoology’ of the expedition, which would very shortly be ready for general issue ...” (Sclater 1881: 606). The reports that were “laid on the table” were the first seven parts, which were listed with their full titles and authors (Table 1). The titles and authors of the first seven parts listed in Sclater (1881: 606) are identical with the titles and authors of these parts as given in Table 1 (i.e., when they were published as part of the first and second volumes).

We treat the specimen copies discussed in Sclater (1881: 606) in the same way as separates distributed in advance. Article 21.8 of the *International Code on Zoological Nomenclature* (hereafter the Code, ICZN 1999: 23) states that before 2000, “distributed separates in advance of the specified date of publication of the work in which the material is published thereby advanced the date of publication”. The first seven parts of the *Zoology of H.M.S. Challenger* were thus published before 31 August 1880.

A consequence of these specimen copies is that the seventh part (H.N. Moseley’s work on corals which was published in the second volume; Table 1) has its date of publication advanced by a year from its imprint date of 1881. However, the first part (T. Davidson’s work on Brachiopoda) was “printed and privately distributed among official and scientific persons” before 31 January 1880 (as noted in *The Athenaeum*, no. 2727: 157; Table 1), and is not affected by the notice of these specimen copies.

### Parts without accurate dates

The 12 parts of the *Zoology of H.M.S. Challenger* without accurate dates of publication are in five volumes (6, 8, 11, 17, 29) for which no notice in the same year as the imprint year could be located in this study (Table 1). The prefaces of four of these volumes (8, 11, 17, 29) are dated after 4 December of the imprint year (the preface of vol. 6 is not dated). The prefaces to volumes 8 and 11 are dated 28 December 1883 and 30 December 1884, respectively.

There is a possibility that these parts were published later than their imprint dates. For example, the records of the Worshipful Company of Stationers for 1884 list the first deposit by the publisher Longmans of volume 8 of the *Challenger Reports* as 5 March 1884 although Longmans had previous deposits of books there that year of 15 January and 9 February and deposited books there regularly each month. However, in the absence of unambiguous evidence of delayed publication, the date to be adopted is the date specified (i.e. the imprint date) (Article 21.2 of the Code, ICZN 1999: 22). In Table 1, the date adopted for these parts is “[31 Dec+]”, the last day of the year specified (Article 21.3 of the Code, ICZN 1999: 22), with an additional indication (“+”) that the date might prove to be later.

## The Zoology of the H.M.S. *Challenger* online

A complete set of the *Zoology* of the H.M.S. *Challenger* (and the Narrative volumes) is available via the H.M.S. *Challenger* Library (<http://19thcenturyscience.org/>). The covers, marginalia, and notations accompanying each part are not included. The Biodiversity Heritage Library (BHL) has digitised most of the parts of the *Zoology* of the H.M.S. *Challenger* (<http://dx.doi.org/10.5962/bhl.title.6513>), together with the covers, marginalia and notations accompanying each part. The BHL has also digitised other parts (not listed at the link above) and these can be found by running a search from the BHL's homepage.

## Acknowledgements

Chris Lyal (Natural History Museum, London) kindly helped us check several sets of the H.M.S. *Challenger* Report held by his institution for date-stamps or other dating evidence. David C. Bossard (Pennsylvania, USA), who created and maintains the H.M.S. *Challenger* Library, kindly responded to the first author's enquiries regarding the *Zoology* of the H.M.S. *Challenger*. The staff of the Bernice Pauahi Bishop Museum library are thanked for allowing the second author access to the complete set of volumes of the *Reports* in their rare book collection.

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- Sclater, P.L. (1881) Exhibition of some Zoological Reports of the 'Challenger' Expedition. In: [Transactions] Tuesday, August 31 [1880]. Section D.—Biology. *Report of the Fiftieth Meeting of the British Association for the Advancement of Science; Held at Swansea in August and September 1880*. John Murray, London, pp. 606–609.

## Appendix

### Abbreviations of the dating references used in Table 1.

*Academy*—*The Academy, A Weekly Review of Literature, Science, and Art* (London).

*Athenaeum*—*The Athenaeum, Journal of Literature, Science, the Fine Arts, Music, and the Drama* (London).

*Bibliotheca historico-naturalis*—*Bibliotheca historico-naturalis physico-chemica et mathematica oder systematisch geordnete Uebersicht der in Deutschland und dem Auslande auf dem Gebiete der gesammten Naturwissenschaften und der Mathematik neu erschienenen Schriften* (Vandenhoeck & Ruprecht, Göttingen).

*Bookseller*—*The Bookseller, A Newspaper of British and Foreign Literature, With Which is Incorporated Bent's Literary Advertiser, Established in the Year 1802* (London).

*Brit. Assoc. Sci. Rep.*—See Sclater (1881) in the references.

*Nature*—*Nature, A Weekly Illustrated Journal of Science* (Macmillan and Co., London).

*Proc. Roy. Geog. Soc.*—*Proceedings of the Royal Geographical Society, and Monthly Record of Geography* (Royal Geographical Society, London).

*Spectator*—*The Spectator, A Weekly Review of Politics, Literature, Theology, and Art* (John Campbell, London).

*Stationer's Records*—*Records of the Worshipful Stationer's Company 1554–1920*. Microfilm version of handwritten and typed receipt books (Chadwyck-Healey, Cambridge).

*Trübner's*, n.s.—*Trübner's American, European & Oriental Literary Record, A Register of the Most Important Works Published in North and South America, India, China, Europe, and the British Colonies, With Occasional Notes on German, Dutch, Danish, French, Italian, Spanish, Portugese, Russian, and Hungarian Literature*, new series (Trübner & Co., London).

*Zool. Anz.*—*Zoologischer Anzeiger* (Wilhelm Engelmann, Leipzig).

**TABLE 1.** Collation of the *Zoology* of the *Report of the Scientific Results of the Voyage of H.M.S. Challenger During the Years 1873–76*. The table is arranged in order of the parts (and not volumes) of the *Zoology* results.

Part ( <i>Zoology</i> ) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
1 <sup>d</sup>	1 <sup>d</sup>	T.H. Tizard, H.N. Moseley, J.Y. Buchanan, & J. Murray	Narrative of the cruise of the H.M.S. <i>Challenger</i> with a general account of the scientific results of the expedition	i–liv, 1–509 pp., figs. 1–178, 15 unnumbered figs., diagrams 1–12, colour pls. A–E, photographic pls. 1–19, maps 1–30	1885	n.d.	6 Mar 1885	< Apr 1885	<i>Trübner's</i> , n.s., 6(3–4): 42
1 <sup>d</sup>	1 <sup>d</sup>	T.H. Tizard, H.N. Moseley, J.Y.	Narrative of the cruise of the H.M.S. <i>Challenger</i> with a general account of the scientific results of the expedition	i–viii, 511–1108 pp., figs. 179–340, 11 unnumbered figs., diagrams 13–22, colour pls. F–I, K–O, photographic pls. 1–35, maps 1–43.	1885	n.d.	n.d.	< Apr 1885	<i>Trübner's</i> , n.s., 6(3–4): 42
—	2 <sup>d</sup>	C. Wyville Thomson & J. Murray <sup>e</sup>	Narrative—Vol. II. The voyage of H.M.S. <i>Challenger</i>	i–viii, 1–742, 1–44 (Appendix A), 1–29 (Appendix B) pp., 1 pl.	1882	n.d.	n.d.	< 23 Sep 1882	<i>The Academy</i> , no. 542: 232
—	1	C. Wyville Thomson	General introduction to the zoological series of reports	i–viii, 1–62 pp., 22 figs.	1880	n.d.	20 Jun 1880	< 4 Nov 1880	<i>Nature</i> , vol. 23, no. 575: 1
01	1	T. Davidson	Report on the Brachiopoda dredged by H.M.S. <i>Challenger</i> during the years 1873–1876	1–67 pp., pls. 1–5	1880	28 Sep 1878	20 Jun 1880	< 31 Jan 1880	<i>The Athenaeum</i> , no. 2727: 157
02	1	A. von Kölliker	Report on the Pennatulida dredged by H.M.S. <i>Challenger</i> during the years 1873–1876	1–41 pp., pls. 1–11	1880	12 Aug 1879	20 Jun 1880	< 31 Aug 1880	<i>Brit. Assoc. Sci. Rep.</i> , vol. 1880: 606
03	1	G.S. Brady	Report on the Ostracoda dredged by H.M.S. <i>Challenger</i> during the years 1873–1876	1–184 pp., pls. 1–44	1880	5 Jul 1879	20 Jun 1880	< 31 Aug 1880	<i>Brit. Assoc. Sci. Rep.</i> , vol. 1880: 606
04	1	W. Turner	Report on the bones of Cetacea collected during the voyage of H.M.S. <i>Challenger</i> in the years 1873–1876	1–45 pp., pls. 1–3	1880	2 Aug 1879	20 Jun 1880	< 31 Aug 1880	<i>Brit. Assoc. Sci. Rep.</i> , vol. 1880: 606

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TABLE 1. (Continued)

Part (Zoology) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
05	1	W.K. Parker	Report on the development of the green turtle ( <i>Chelone viridis</i> , Schneider.)	1–57 pp., pls. 1–13	1880	15 Aug 1879	20 Jun 1880	< 31 Aug 1880	<i>Brit. Assoc. Sci. Rep.</i> , vol. 1880: 606
06	1	A. Günther	Report on the shore fishes procured during the voyage of the H.M.S. <i>Challenger</i> in the years 1873–1876	1–82 pp., pls. 1–32	1880	16 Jun 1879	20 Jun 1880	< 31 Aug 1880	<i>Brit. Assoc. Sci. Rep.</i> , vol. 1880: 606
07	2	H.N. Moseley	Report on certain hydroid, alcyonarian, and madreporarian corals procured during the voyage of H.M.S. <i>Challenger</i> , in the years 1873–1876	1–248 pp., pls. 1–32	1881	17 Nov 1879	n.d.	< 31 Aug 1880 <sup>f</sup>	<i>Brit. Assoc. Sci. Rep.</i> , vol. 1880: 606
08 <sup>g</sup>	2	P.L. Sclater	Report on the birds collected during the voyage of H.M.S. <i>Challenger</i> in the years 1873–1876 <sup>g</sup>	1–166 pp., 5 figs., pls. 1–30	1881	9 Apr 1880	n.d.	< 3 Mar 1881	<i>The Bookseller</i> , vol. 1881: 251
09 <sup>h</sup>	3	A. Agassiz	Report on the Echinoidea, dredged by H.M.S. <i>Challenger</i> during the years 1873–1876	1–321 pp., pls. 1–66	1881	1 Sep 1880	n.d.	< 28 Apr 1881	<i>Nature</i> , vol. 23, no. 600: ccvii
10	3	P.P.C. Hoek	Report on the Pycnogonida, dredged by H.M.S. <i>Challenger</i> during the years 1873–76	1–167 pp., pls. 1–21	1881	20 Feb 1881	n.d.	< 28 Apr 1881	<i>Nature</i> , vol. 23, no. 600: ccvii
11	4	W.A. Forbes	Report on the anatomy of the petrels (Tubinares), collected during the voyage of H.M.S. <i>Challenger</i>	1–64 pp., 33 figs., pls. 1–7	1882	6 May 1882	n.d.	< 29 Jul 1882	<i>The Academy</i> , no. 534: ii

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TABLE 1. (Continued)

Part (Zoology) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
12	4	E. Haeckel	Report on the deep-sea Medusae dredged by H.M.S. <i>Challenger</i> during the years 1873–1876	i–cv, 1–154 pp., pls. 1–32	1882	1 Mar 1881	n.d.	<29 Jul 1882	<i>The Academy</i> , no. 534: ii
13	4	H. Théel	Report on the Holothuriroidea dredged by H.M.S. <i>Challenger</i> during the years 1873–1876. Part I	1–176 pp., pls. 1–46	1882	1 June 1881	n.d.	<29 Jul 1882	<i>The Academy</i> , no. 534: ii
14	5	T. Lyman	Report on the Ophiuroidea dredged by H.M.S. <i>Challenger</i> during the years 1873–76	1–386, [1] pp., pls. 1–48	1882	30 Aug 1881	n.d.	<28 Oct 1882	<i>The Academy</i> , no. 547: ii
15	6	R. Hertwig	Report on the Actiniaria dredged by H.M.S. <i>Challenger</i> during the years 1873–1876	1–136 pp., pls. 1–14	1882	1 Feb 1882	n.d.	[31 Dec+] 1882	—
16	5	D.J. Cunningham	Report on some points in the anatomy of the thylacine ( <i>Thylacinus cynocephalus</i> ), cuscus ( <i>Phalangista maculata</i> ), and phascogale ( <i>Phascogale calura</i> ), collected during the voyage of H.M.S. <i>Challenger</i> in the years 1873–1876; with an account of the comparative anatomy of the intrinsic muscles and the nerves of the mammalian pes	1–192 pp., 5 figs., pls. 1–13	1882	28 Mar 1882	n.d.	<28 Oct 1882	<i>The Academy</i> , no. 547: ii

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TABLE 1. (Continued)

Part ( <i>Zoology</i> ) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
17	6	W.A. Herdman	Report on the Tunicata collected during the voyage of H.M.S. <i>Challenger</i> during the year 1873–76. Part I.— Ascidiae simplices	1–296 pp., 23 figs., pls. 1–37	1882	1 Nov 1882	n.d.	[31 Dec+] 1882	—
18	7	M. Watson	Report on the anatomy of the Spheniscidae collected during the voyage of H.M.S. <i>Challenger</i>	1–241, 242a, [242b], 242–244 pp., 2 figs., pls. 1–19	1883	15 Nov 1882	30 Jul 1883	< 22 Sep 1883	<i>The Athenaeum</i> , no. 2917: 355
19	7	F.B. White	Report on the pelagic Hemiptera procured during the voyage of H.M.S. <i>Challenger</i> , in the years 1873–1876	1–82 pp., pls. 1–3	1883	26 Feb 1883	30 Jul 1883	< 22 Sep 1883	<i>The Athenaeum</i> , no. 2917: 355
20	7	G.J. Allman	Report on the Hydrozoa dredged by H.M.S. <i>Challenger</i> during the years 1873–76. Part I.— Plumularidae	1–54, [1] pp., 3 figs., pls. 1–20	1883	6 Jan 1886	30 Jul 1883	< 22 Sep 1883	<i>The Athenaeum</i> , no. 2917: 355
21	7	W.B. Carpenter	Report on the specimens of the genus <i>Orbitolites</i> collected by H.M.S. <i>Challenger</i> during the years 1873–1876	1–47 pp., 7 figs., pls. 1– 8	1883	14 May 1883	30 Jul 1883	< 22 Sep 1883	<i>The Athenaeum</i> , no. 2917: 355
22 <sup>i</sup>	9	H.B. Brady	Report on the Foraminifera collected by H.M.S. <i>Challenger</i> during the years 1873–1876 <sup>i</sup>	i–xxi, [2], 1–41, 42a, 42b, 42c, 42d, 43–814 pp., 22 figs., pls. 1–115, 1 map	1884	n.d.	8 Jul 1884	< 30 Aug 1884	<i>The Academy</i> , no. 643: 144
23	8	G.S. Brady	Report on the Copepoda collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–142 pp., 4 figs., pls. 1–55	1883	1 Aug 1883	28 Dec 1883	[31 Dec+] 1883	—

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TABLE 1. (Continued)

Part ( <i>Zoology</i> ) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
24	8	N. Poléjaeff	Report on the Calcareo dredged by H.M.S. <i>Challenger</i> during the years 1873–76	1–76 pp., 1 fig., pls. 1–9	1883	10 Sep 1883	28 Dec 1883	[31 Dec+] 1883	—
25	8	P.P.C. Hoek	Report on the Cirripedia collected by H.M.S. <i>Challenger</i> during the years 1873–76. [Part I.]	1–169 pp., 3 figs., pls. 1–13	1883	31 Aug 1883	28 Dec 1883	[31 Dec+] 1883	—
26	10	R. Bergh	Report on the Nudibranchiata dredged by H.M.S. <i>Challenger</i> during the years 1873–1876	1–153 pp., pls. 1–14	1884	n.d.	24 Sep 1884	< Oct 1884	<i>Tribner's</i> , n.s., 5(9–10): 121
27	10	L. von Graff	Report on the Myzostomida collected during the voyage of H.M.S. <i>Challenger</i> during the years 1873–76	1–82 pp., 1 fig., pls. 1–16	1884	n.d.	24 Sep 1884	< Oct 1884	<i>Tribner's</i> , n.s., 5(9–10): 121
28	10	P.P.C. Hoek	Report on the Cirripedia collected by H.M.S. <i>Challenger</i> during the years 1873–76. [Part II.—]	1–47 pp., pls. 1–6	1884	n.d.	24 Sep 1884	< Oct 1884	<i>Tribner's</i> , n.s., 5(9–10): 121
29	10	W. Turner	Anatomical part Report on the human crania and other bones of the skeletons collected during the voyage of H.M.S. <i>Challenger</i> , in the years 1873–1876. Part I.—The crania	1–130 pp., 8 figs., pls. 1–7	1884	n.d.	24 Sep 1884	< Oct 1884	<i>Tribner's</i> , n.s., 5(9–10): 121

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TABLE 1. (Continued)

Part (Zootology) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
30	10	G. Busk	Report on the Polyzoa collected by H.M.S. <i>Challenger</i> during the years 1873–76. Part I.— The Cheilostomata	i–xxiv, 1–216 pp., 59 figs., pls. 1–36	1884	n.d.	24 Sep 1884	< Oct 1884	<i>Trübner's</i> , n.s., 5(9–10): 121
31	11	N. Poléjaeff	Report on Keratosa collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–88 pp., 2 figs., pls. 1– 10	1884	16 Apr 1884	30 Dec 1884	[31 Dec+] 1884	—
32	11	P.H. Carpenter	Report upon the Crinoidea collected during the voyage of H.M.S. <i>Challenger</i> during the years 1873–76. Part I.— General morphology, with descriptions of the stalked crinoids	i–xii, 1–442 pp., 17 figs., pls. 1–72	1884	13 Dec 1884	30 Dec 1884	[31 Dec+] 1884	—
33	11	F.E. Beddard	Report on the Isopoda collected by H.M.S. <i>Challenger</i> during the years 1873–76. Part I.— The genus <i>Serolis</i>	1–85 pp., pls. 1–10	1884	6 Sep 1884	30 Dec 1884	[31 Dec+] 1884	—
34	12	W.C. M <sup>r</sup> Intosh	Report on the Annelida Polychaeta collected by H.M.S. <i>Challenger</i> during the years 1873–76	[1 page errata], i–xxxvi, 1–554 pp., 91 figs., pls. 1–94	1885	n.d.	1 Sep 1885	< 5 Nov 1885	<i>Nature</i> , vol. 33, no. 836: iv
35	13	E.A. Smith	Report on the Lamellibranchiata collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–341 pp., 7 figs., pls. 1–25	1885	18 Jun 1885	1 Oct 1885	< 6 Nov 1885	<i>The Bookseller</i> , vol. 1885: 1216a
36	13	E. Selenka	Report on Gephyrea collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–24 pp., [1], pls. 1–4	1885	12 Mar 1885	1 Oct 1885	< 6 Nov 1885	<i>The Bookseller</i> , vol. 1885: 1216a

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TABLE 1. (Continued)

Part (Zooology) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
37	13	G.O. Sars	Report on the Schizopoda collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–228 pp., 4 figs., pls. 1–38	1885	7 Jul 1885	1 Oct 1885	< 6 Nov 1885	<i>The Bookseller</i> , vol. 1885: 1216a
38	14	W.A. Herdman	Report on the Tunicata collected during the voyage of H.M.S. <i>Challenger</i> during the years 1873–76. Part II.— Ascidiae compositae	1–432 pp., 14 figs., pls. 1–49	1886	n.d.	8 May 1886	< 30 Jun 1886	<i>Tribner's</i> , n.s., 7(5- 6): 58
39	14	H. Théel	Report on the Holothuroidea dredged by H.M.S. <i>Challenger</i> during the years 1873–76. Part II.	1–290 pp., pls. 1–16	1886	n.d.	8 May 1886	< 30 Jun 1886	<i>Tribner's</i> , n.s., 7(5- 6): 58
40 <sup>l</sup>	18	E. Haeckel	Report on the Radiolaria collected by H.M.S. <i>Challenger</i> during the years 1873–76 <sup>l</sup>	text (part 1): i– clxxxviii, 1–888 pp.; text (part 2): 889–1803 pp.; pls. 1–140, 1 map	1887	25 Jan 1887	1 Feb 1887	< 18 Mar 1887	<i>Stationer's Records</i> , 1887, p. 85
41	15	R. Bergh	Report on the Marseniadae collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–24 pp., [1], pl. 1	1886	25 Jan 1886	9 Aug 1886	< 16 Oct 1886	<i>The Athenaeum</i> , no. 3077: 483
42 <sup>k</sup>	15	R.B. Watson	Report on the Scaphopoda and Gasteropoda collected by H.M.S. <i>Challenger</i> during the years 1873–76 <sup>k</sup>	i–v, 1–756 pp., 6 figs., pls. 1–53	1886	15 Feb 1886	9 Aug 1886	< 16 Oct 1886	<i>The Athenaeum</i> , no. 3077: 483
43	15	A.C. Haddon	Report on the Polyplacophora collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–47, [48]–50 pp., pls. 1–3	1886	28 Jan 1886	9 Aug 1886	< 16 Oct 1886	<i>The Athenaeum</i> , no. 3077: 483

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TABLE 1. (Continued)

Part ( <i>Zoology</i> ) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
44	16	W.E. Hoyle	Report on the Cephalopoda collected by H.M.S. <i>Challenger</i> during the years 1873–76	i–vi, 1–245 pp., 10 figs., pls. 1–33	1886	n.d.	15 Aug 1886	< 16 Oct 1886	<i>The Athenaeum</i> , no. 3077: 483
45	16	W.K. Brooks	Report on the Stomatopoda collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–116 pp., pls. 1–16	1886	n.d.	15 Aug 1886	< 16 Oct 1886	<i>The Athenaeum</i> , no. 3077: 483
46	16	J.J. Quelch	Report on the reef-corals collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–203 pp., pls. 1–12	1886	n.d.	15 Aug 1886	< 16 Oct 1886	<i>The Athenaeum</i> , no. 3077: 483
47	16	W. Turner	Report on the human crania and other bones of the skeletons collected during the voyage of H.M.S. <i>Challenger</i> , in the years 1873–76. Part II.—The bones of the skeleton	1–136 pp., 3 figs., pls. 1–3	1886	n.d.	15 Aug 1886	< 16 Oct 1886	<i>The Athenaeum</i> , no. 3077: 483
48	17	F.E. Beddard	Report on the Isopoda collected by H.M.S. <i>Challenger</i> during the years 1873–76. Part II	1–178 pp., 2 figs., pls. 1–25	1886	8 Nov 1886	6 Dec 1886	[31 Dec+] 1886	—
49	17	E.J. Miers	Report on the Brachyura collected by H.M.S. <i>Challenger</i> during the years 1873–76	i–l, 1–362 pp., pls. 1–29	1886	25 Nov 1886	6 Dec 1886	[31 Dec+] 1886	—
50	17	G. Busk	Report on the Polyzoa collected by H.M.S. <i>Challenger</i> during the years 1873–76. Part II.—The Cyclostomata, Ctenostomata and Pedicellinea	i–viii, 1–47 pp., 3 figs., pls. 1–10	1886	16 Jul 1886	6 Dec 1886	[31 Dec+] 1886	—

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TABLE 1. (Continued)

Part (Zooology) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
51 <sup>i</sup>	30	W.P. Sladen	Report on the Asteroidea collected during the voyage of H.M.S. <i>Challenger</i> during the years 1873–76 <sup>i</sup>	text: [1 page errata], i– xlili, 1–893 pp., 24 figs., pls. 1–117	1889	21 Jan 1889	23 Jan 1889	< 5 Apr 1889	<i>The Bookseller</i> , vol. 1889: 359
52 <sup>i,1</sup>	24	C. Spence Bate	Report on the Crustacea Macrura dredged by H.M.S <i>Challenger</i> during the years 1873–76 <sup>i, k</sup>	[1 page errata], i–xc, 1– 942 pp., 75 figs., pls. 1– 10, 10a, 11, 11a, 12, 12a, 12b, 12c, 12d, 12e, 13–150	1888	20 Mar 1888	8 May 1888	< 30 Jun 1888	<i>The Spectator</i> , 1888(supp.): 918
53 <sup>i,m</sup>	21	F.E. Schulze	Report on the Hexactinellida collected by H.M.S. <i>Challenger</i> during the years 1873–76 <sup>i,1</sup>	1–513, [1] pp., 11 figs., pls. 1–104, 1 map	1887	30 May 1887	1 Aug 1887	< 11 Oct 1887	<i>Stationer's Records</i> , 1887, p. 116
54	19	A.A.W. Hubrecht	Report on the Nemertea collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–150, [1] pp., 6 figs., pls. 1–16	1887	18 Nov 1886	9 Feb 1887	< 26 Mar 1887	<i>Stationer's Records</i> , 1887, p. 66
55	19	G.O. Sars	Report on the Cumacea collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–78 pp., pls. 1–11	1887	15 Dec 1886	9 Feb 1887	< 26 Mar 1887	<i>Stationer's Records</i> , 1887, p. 66
56	19	G.O. Sars	Report on the Phyllocarida collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–38, [1] pp., 2 figs., pls. 1–3	1887	15 Jan 1887	9 Feb 1887	< 26 Mar 1887	<i>Stationer's Records</i> , 1887, p. 66
57	22	A. Günther	Report on the deep- sea fishes collected by H.M.S. <i>Challenger</i> during the years 1873–76	i–lxv, 1–335 pp., 7 figs., pls. 1–73	1887	28 Jun 1887	1 Aug 1887	< 11 Oct 1887	<i>Stationer's Records</i> , 1887, p. 116

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TABLE 1. (Continued)

Part (Zoology) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
58	19	P. Pelseneer	Report on the Pteropoda collected by H.M.S. <i>Challenger</i> during the years 1873–76. Part I.—The Gymnosomata	1–74 pp., 5 figs., pls. 1–3	1887	15 Nov 1886	9 Feb 1887	<26 Mar 1887	<i>Stationer's Records</i> , 1887, p. 66
59	20	S.O. Ridley & A. Dendy	Report on the Monaxonida collected by H.M.S. <i>Challenger</i> during the years 1873–76	i–lxviii, 1–275 pp., 22 figs., pls. 1–51	1887	13 May 1887	22 Jul 1887	<30 Sep 1887	<i>Bibliotheca hist.-nat.</i> , vol. 1887, no. 3: 145
60	26	P.H. Carpenter	Report upon the Crinoidea collected during the voyage of H.M.S. <i>Challenger</i> during the years 1873–76. Part II.—The Comatulæ	i–ix, 1–399, [1] pp., 6 figs., pls. 1–70	1888	30 Mar 1888	21 Jun 1888	<Nov 1888	<i>Proc. Roy. Geog. Soc.</i> , vol. 10: 744
61	20	L. von Graff	Report on the Myzostomida collected by the voyage H.M.S. <i>Challenger</i> during the years 1873–76.	1–16 pp., pls. 1–4	1887	10 Mar 1887	22 Jul 1887	<30 Sep 1887	<i>Bibliotheca hist.-nat.</i> , vol. 1887, no. 3: 145
62 <sup>n</sup>	20	W.C. M <sup>r</sup> Intosh	Report on <i>Cephalodiscus dodecalophus</i> , M <sup>r</sup> Intosh, a new type of the Polyzoa, procured on the voyage of H.M.S. <i>Challenger</i> during the years 1873–76 <sup>n</sup>	1–47, [1] pp., 7 figs., pls. 1–7	1887	19 May 1887	22 Jul 1887	<30 Sep 1887	<i>Bibliotheca hist.-nat.</i> , vol. 1887, no. 3: 145
63	25	W.J. Sollas	Report on the Tetractinellida collected by H.M.S. <i>Challenger</i> during the years 1873–76	i–clxvi, 1–456, [1] pp., 18 figs., pls. 1–44	1888	n.d.	12 May 1888	<30 Jun 1888	<i>The Spectator</i> , 1888(supp.): 918

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TABLE 1. (Continued)

Part (Zoology) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
64	31	E.P. Wright & T. Studer	Report on the Acyonaria collected by H.M.S. <i>Challenger</i> during the years 1873–76	i–lxxii, 1–314 pp., 5 figs., pls. 1–49	1889	21 Dec 1888	23 Jan 1889	< 5 Jun 1889	<i>The Bookseller</i> , vol. 1889: 597
65	23	P. Pelseneer	Report on the Pteropoda collected by H.M.S. <i>Challenger</i> during the years 1873–76. Part II.—The Thecosomata	1–132 pp., 3 figs., pls. 1, 2	1888	n.d.	9 May 1888	< 20 Aug 1888	<i>Zool. Anz.</i> , 11(286): 431
66	23	P. Pelseneer	Report on the Pteropoda collected by H.M.S. <i>Challenger</i> during the years 1873–76. Part III.—Anatomy	1–97 pp., 4 figs., pls. 1– 5	1888	n.d.	9 May 1888	< 20 Aug 1888	<i>Zool. Anz.</i> , 11(286): 431
67 <sup>d</sup>	29	T.R.R. Stebbing	Report on the Amphipoda collected by H.M.S. <i>Challenger</i> during the years 1873–76 <sup>e</sup>	text (part 1): i–xxiv, 1– 872 pp.; text (part 2): 873–1737 pp., pls. 1– 15, 15a, 16–94, 94a, 95–210, 1 map	1888	30 Nov 1888	5 Dec 1888	[31 Dec+] 1888	—
68 <sup>o</sup>	26	W. Turner	Report on the seals collected during the voyage of H.M.S. <i>Challenger</i> in the years 1873–76 <sup>o</sup>	1–240 pp., pls. 1–10	1888	25 Feb 1888	21 Jun 1888	< Nov 1888	<i>Proc. Roy. Geog. Soc.</i> , vol. 10: 744
69	27	J.R. Henderson	Report on the Anomura by collected H.M.S. <i>Challenger</i> during the years 1873–76	i–xi, 1–221 pp., pls. 1– 21	1888	24 Apr 1888	1 Sep 1888	< 1 Nov 1888	<i>Nature</i> , vol. 39: 24

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TABLE 1. (Continued)

Part (Zooology) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
70	23	G.J. Allman	Report on the Hydroida dredged by H.M.S. <i>Challenger</i> during the years 1873–76. Part II.— The Tubularinae, Corymorphinae, Campanularinae, Sertularinae, and Thalamophora	i–lxix, 1–90 pp., pls. 1– 39	1888	n.d.	9 May 1888	<20 Aug 1888	<i>Zool. Anz.</i> , 11(286): 431
71	23	O. von Linstow	Report on the Entozoa collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–19 pp., 1 fig., pls. 1, 2	1888	n.d.	9 May 1888	<20 Aug 1888	<i>Zool. Anz.</i> , 11(286): 431
72	23	E.A. Smith	Report on the Heteropoda collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–51 pp., 5 figs.	1888	n.d.	9 May 1888	<20 Aug 1888	<i>Zool. Anz.</i> , 11(286): 431
73	26	R. Hertwig	Report on the Actiniaria dredged by H.M.S. <i>Challenger</i> during the years 1873–1876. Supplement.	1–56 pp., pls. 1–4	1888	21 Jan 1888	21 Jun 1888	< Nov 1888	<i>Proc. Roy. Geog. Soc.</i> , vol. 10: 744
74	27	P. Pelseneer	Report on the anatomy of the deep- sea Mollusca collected by H.M.S. <i>Challenger</i> in the years 1873–76	1–42 pp., pls. 1–4	1888	2 Apr 1888	1 Sep 1888	< 1 Nov 1888	<i>Nature</i> , vol. 39: 24
75	27	W.C. M'Intosh	Report on <i>Phoronis</i> <i>buskii</i> , n. sp., dredged during the voyage of H.M.S. <i>Challenger</i> , 1873–76	1–27 pp., pls. 1–3	1888	27 Mar 1888	1 Sep 1888	< 1 Nov 1888	<i>Nature</i> , vol. 39: 24

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TABLE 1. (Continued)

Part ( <i>Zoology</i> ) <sup>a</sup>	Volume <sup>a</sup>	Author(s)	Full Title	Organisation	Imprint date	Manuscript date	Preface date	Date of publication <sup>b</sup>	Reference <sup>c</sup>
76	27	W.A. Herdman	Report upon the Tunicata collected during the voyage of H.M.S. <i>Challenger</i> during the years 1873–76. Part III	1–166 pp., 28 figs., pls. 1–11	1888	23 Apr 1888	1 Sep 1888	< 1 Nov 1888	<i>Nature</i> , vol. 39: 24
77	28	E. Haeckel	Report on the Siphonophorae collected by H.M.S. <i>Challenger</i> during the years 1873–76	i–viii, 1–380 pp., 7 figs., pls. 1–50	1888	5 Jul 1888	13 Oct 1888	< 27 Dec 1888	<i>Nature</i> , vol. 39: 216
78	31	A. Günther	Report on the pelagic fishes collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–47 pp., pls. 1–5	1889	19 Dec 1888	23 Jan 1889	< 5 Jun 1889	<i>The Bookseller</i> , vol. 1889: 597
79	31	A. W. Waters	Supplementary report on the Polyzoa collected by H.M.S. <i>Challenger</i> during the years 1873–1876	1–41 pp., pls. 1–3	1889	18 Oct 1888	23 Jan 1889	< 5 Jun 1889	<i>The Bookseller</i> , vol. 1889: 597
80	32	G. Brook	Report on the Antipatharia collected by H.M.S. <i>Challenger</i> during the years 1873–1876	1–222 pp., 18 figs., pls. 1–15	1889	22 Jul 1889	6 Sep 1889	< 8 Nov 1889	<i>The Bookseller</i> , vol. 1889: 1235
81	32	T. Studer	Supplementary report on the Alcyonaria collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–31 pp., pls. 1–6	1889	1 Mar 1889	6 Sep 1889	< 8 Nov 1889	<i>The Bookseller</i> , vol. 1889: 1235
82	32	E. Haeckel	Report on the deep- sea Keratosa collected by H.M.S. <i>Challenger</i> during the years 1873–76	1–92 pp., pls. 1–8	1889	14 Mar 1889	6 Sep 1889	< 8 Nov 1889	<i>The Bookseller</i> , vol. 1889: 1235
83 <sup>p</sup>	— <sup>p</sup>	T.H. Huxley & P. Pelseneer	Report on the specimen of the genus <i>Spirula</i> collected by H.M.S. <i>Challenger</i> <sup>p</sup>	1–32 pp., 14 figs., pls. 1–14	1895	Jan 1894	28 Jan 1895	< Apr 1895	<i>Zool. Anz.</i> , 18: 161

- <sup>a</sup>Parts and volumes of the *Zoology* reports unless otherwise indicated.
- <sup>b</sup>Date when a part or volume was first noticed in corresponding reference listed in the next column. A “<” before the date indicates that the corresponding part must have been published before the date when it was first noticed and represents a ‘not-after’ date. For parts where no notice of publication has been found, there is a possibility that these parts were published later than their imprint dates (see discussion in text), but in absence of unambiguous evidence of delayed publication, the date to be adopted is the date specified (i.e. the imprint date) (Article 21.2 of the Code, ICZN 1999: 22). The date adopted for these parts is “[31 Dec+]”, the last day of the year specified (Article 21.3 of the Code, ICZN 1999: 22), with an indication that the date might be even later (i.e. “+”).
- <sup>c</sup>Reference to the notice used to provide the corresponding date for each part as listed in the previous column. See Appendix for explanation of shortened titles or abbreviations.
- <sup>d</sup>*Narrative* volumes. Though not part of the *Zoology* results, these volumes contain valid indications of new taxon names that may antedate their indications in the *Zoology* parts (see Frogliá & Clark 2011).
- <sup>e</sup>The authorship of many sections of this work are not attributed but the title-page states: “Prepared under the superintendence of the late Sir C. Wyville Thomson ... and now of John Murray ...”.
- <sup>f</sup>Year of publication advanced from 1881 (imprint) to 31 August 1880.
- <sup>g</sup>Part 8 is comprised of 11 separate previously published articles by P.L. Sclater and other authors and a two-part appendix; many of these articles were stated as being “[r]eprinted from the *Proceedings of the Zoological Society of London* ... [w]ith corrections and additions by P.L. Sclater, F.R.S.”.
- <sup>h</sup>Footnote on page 1 states: “It has been found impracticable to incorporate in this Report publications on the Echinoidea which have appeared during the winter of 1879–80 and subsequently”.
- <sup>i</sup>Comprised of two parts: one part of text, one part of plates.
- <sup>j</sup>Comprised of three parts: two parts of text, one part of plates.
- <sup>k</sup>Part 42 contains two appendices. Appendix A (pp. 677–681), an untitled list of addenda; Appendix B (pp. 681–690) entitled: “Report on the Caecidae collected by H.M.S. *Challenger* during the years 1873–76” by L. de Folin.
- <sup>l</sup>Part 52 contains two appendices. Appendix A (pp. 919–926, pls. 149, 150) entitled: “Description of *Sylon challengeri*, n. sp., a parasitic cirriped” by P.P.C. Hoek; Appendix B (p. 927) which is a list of addenda.
- <sup>m</sup>An unnumbered postscript after page 513 states: “*Balanites*, *Polyrhabdus* and *Polylophus* are preoccupied as generic names. I propose, therefore, to substitute *Balanella* for *Balanites*, *Pleorhabdus* for *Polyrhabdus* and *Lophocalyx* for *Polylophus*”.
- <sup>n</sup>Part 62 contains an untitled appendix (pp. 39–47, figs. 1–7) by S.F. Harmer.
- <sup>o</sup>Part 68 contains an appendix (pp. 139–234) entitled: “The myology of the Pinnipedia” by W.C.S. Miller.
- <sup>p</sup>Published as an appendix in first part of the two-part volume entitled: *A Summary of the Scientific Results*.