MOLLUSCAN TYPES OF THE *ALBATROSS* EXPEDITIONS TO THE EASTERN PACIFIC DESCRIBED BY W. H. DALL (1908)

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ABSTRACT. This paper documents the type material of 215 species of mollusks described by W. H. Dall in his 1908 monograph on the shelled mollusks and brachiopods collected by Alexander Agassiz during the three cruises of the *Albatross* in the tropical Pacific. The division of type specimens between Harvard University (Museum of Comparative Zoology) and the Smithsonian Institution (U.S. National Museum), as well as other curatorial problems, has resulted in some errors and omissions in the subsequent literature. These are here rectified.

INTRODUCTION

Alexander Agassiz [1835–1910], the founder of oceanographic research in the United States and second director of the Museum of Comparative Zoology (MCZ) at Harvard College, had three major series of expeditions to his name: first, the three cruises of the *Blake* (1877–80) in the western Atlantic, primarily in the Caribbean Sea and Gulf of Mexico; second, several cruises (on various small steamers) in the western Pacific and the Indian Ocean at the turn of the century; and third, the three cruises of the *Albatross* in the tropical eastern Pacific (1891, 1899–1900, 1904–05). Specifically, the first *Albatross* cruise went from Panama to the Galápagos Islands, to Acapulco, and then to the Gulf of California; the second went from San Francisco to the Marquesas and thence westward through Polynesia, eastern Melanesia, and through Micronesia to the Ladrone (Marianas) Islands; and the third went from San Francisco to Panama, then to the Galápagos, then to Peru, then westward to Easter Island, back to the Galápagos, westward again to Mangareva (Gambier Islands), and then northward to Acapulco and San Diego. Although the *Albatross* was owned by the U.S. Fish Commission (USFC), the actual costs of these expeditions, not the least being the advance transport of coal to remote destinations, were covered by Agassiz.

All three *Albatross* cruises resulted in numerous publications on the systematics of the various organisms, mostly deep-sea, collected during the expeditions, as well as narrative volumes and descriptions of the coral-reef habitats by Agassiz himself (Agassiz, 1892, 1902, 1903, 1905, 1906). These publications, with their often sumptuous plates, appeared in the *Bulletin* and *Memoirs* of the MCZ, with the publication costs subsidized by Agassiz* through his fortunes derived from copper mines in Michigan.

Today these expeditions are best known by marine zoologists for their extensive discoveries of the deep-sea fauna, often from areas not well covered by previous expeditions, such as those of the *Challenger* in 1872–76. It is perhaps ironic that the Pacific and Indian Ocean expeditions of Agassiz were intended actually to allow him to collect data on the structure and formation of coral reefs in order to confirm his theories on this subject. Most zoologists are aware of the conclusions of

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* Agassiz (1912: 58) complained of the neglect by the U.S. government in not helping with the publication expenses.

Charles Darwin on the development of coral reefs, which today have received wide acceptance, albeit with some modifications. However, during the late 1800s there was not as strong a consensus concerning Darwin's views, with other hypotheses actively advanced by their proponents (Daly, 1916; Davis, 1928).

It will be recalled that Louis Agassiz [1807–73] was a vehement opponent of Darwin's theory of evolution by natural selection, so it is poignant to note that his son, Alexander, was to be just as opposed to Darwin's theory of coral-reef formation. That both father and son were wrong indicates their inflexible mentality (see also Winsor, 1991). In any case, the younger Agassiz, during his oceanographic cruises, certainly visited and studied far more coral reefs than had Darwin, James Dwight Dana (another key figure in this controversy), or indeed any other marine zoologist of those times. Yet Agassiz's approach to the coral-reef problem was strictly empirical: the accumulation of numerous observations that could, by inadequately explicated reasoning, be made to fit his own hypotheses.

Eventually, Darwin's views were confirmed for nearly all coral reefs, with Agassiz's hypotheses applying only to a few coral reefs that had formed on secondarily elevated platforms (as opposed to reefs around volcanic islands or barrier reefs). Indeed, Agassiz's voluminous research (1903) is scarcely if at all noted by modern historians of the coral-reef problem (e.g., Kühlmann, 1982; Stoddart, 1994), notwithstanding their doughty defenses in several hagiographic accounts of Agassiz's life (G. R. Agassiz, 1913; Mayer, 1910). In addition to studying the coral-reef problem, the *Albatross* expeditions were also intended to analyze the relationships of the deep-water fauna on either side of the Panamanian isthmus (Hedgpeth, 1945: 11; Wourms, 1992: 6) and the existence of the planktonic biota at intermediate oceanic depths (Mills, 1980); the former study was not completed by Agassiz, and the results of the latter study were disproven by other researchers.

Despite the fact that the primary rationale for Agassiz's Pacific and Indian Ocean expeditions has long since been rejected by marine zoologists, the specimens themselves and the systematic publications thereto remain of importance today in documenting the marine fauna of these regions.

For the Mollusca, the material from the *Albatross* expeditions of Agassiz was divided among several malacologists. The Cephalopoda of the first two expeditions were monographed by Hoyle (1904). The Nudibranchia and other shell-less Opisthobranchia of the first expedition were monographed by Bergh (1894). The discovery of a single specimen of *Dolabella* at Easter Island prompted an elaborate report on the "Dolabellinae" by MacFarland (1918) entailing a complete dissection of the holotype. The remaining shelled mollusks, as well as the brachiopods, were turned over to William Healey Dall [1845–1927] at the Smithsonian Institution (U.S. National Museum [USNM]). As Dall had previously treated the shelled mollusks of the *Blake* expeditions (Kabat, in press), Agassiz could confidently expect Dall to produce a work of similar quality on the *Albatross* Pacific material.

Dall's 1908 monograph on the shelled mollusks remains of fundamental importance in documenting and describing the (mostly) deep-sea biota of the eastern Pacific, along with a few taxa from Easter Island (Isla de Pascua) and nearby Isla Sala y Gómez. Many of these species are still known only from their original description and have not since been re-collected. Dall's monograph was largely based on the first and third *Albatross* cruises of Agassiz, together with some material from Mexico and southern California collected in 1888 by the *Albatross* during its earlier coastal surveys. The second *Albatross* cruise, which covered much of Polynesia and Micronesia, collected few benthic taxa (as the ocean floor in those regions was primarily

composed of manganese nodules), and only a small number of mollusk species were recorded by Dall.

The following two paragraphs are modified from Kabat (in press) concerning the *Blake* expedition mollusks, as the same principles and problems apply to the *Albatross* mollusks.

The majority of these species were based on several specimens, often coming from different stations, and holotypes were seldom specified by Dall in the original description. Although Dall often gave the USNM number for one lot under each species, he did not indicate the type status of that lot, and sometimes there were several specimens included in the lot. Numerous problems of interpretation of the type material by subsequent revisers have arisen over the past century. In the absence of a specified holotype, the presence of more than one specimen in the type material for a species means that these specimens are actually **syntypes** ["cotypes" in the older literature]. One specimen, usually the figured specimen, can be selected as the **lectotype** upon revision of the taxon. The remaining syntype(s) from the type lot(s) then automatically become **paralectotype(s)** (ICZN Articles 72–74).

Unfortunately, these principles concerning syntypes and lectotypes were often overlooked by malacologists in their taxonomic monographs. What frequently has occurred are statements that a given specimen (or lot) is the "holotype" and, sometimes, a statement that the remaining specimens are "paratypes." This, in fact, represents an inadvertent selection of a lectotype and paralectotypes by the subsequent author (ICZN Article 74).

Another problem concerning the *Albatross* material (as for that of the *Blake*) is that often the specimen lots were divided between the USNM (National Museum of Natural History, Smithsonian Institution) and the Museum of Comparative Zoology [MCZ] (Harvard University), although Dall did not explicitly note any MCZ records in his monograph. It is possible that the MCZ material was still at the Smithsonian at the time Dall's paper was completed. In researching the secondary literature, a lack of mention by authors of the MCZ material was noticed, sometimes with erroneous statements that the USNM specimen was the unique holotype when in fact syntypes were extant at the MCZ.

Also, as Kabat (in press) has discussed, during the Second World War the "type collections" of the USNM were stored at Luray in the Shenandoah Valley of central Virginia in order to protect them during possible bombing of the nation's capital. However, the haste necessitated by identifying and packing these specimens meant that no time could be devoted to researching their type status when they were removed from the general collection. After the war, at which time the type collection was kept separate, little curatorial attempt was made either to identify additional syntypes in the general collection or, indeed, to verify the type status of the material in the type collection itself. These problems are herein rectified, but they have assuredly led to confusion in the past as researchers often have assumed that a single specimen in the USNM type collection was per force the holotype.

One issue unique to the eastern Pacific marine mollusks in the USNM collection needs to be addressed as it too has caused problems. Several decades ago researchers with a special interest in this fauna undertook well-intentioned projects of carefully working through the USNM type collection, examining the type lots from the eastern Pacific, and then "recurating" those lots containing more than one specimen. In essence, what these researchers did was to determine which specimen (in a syntype series) was the "figured" or "measured" type, label that specimen as the "holotype" or "type," and then have the remaining syntype(s) *recataloged* under a new USNM number as "paratypes." The good intentions of these researchers to clarify taxonomic problems notwithstanding, these curatorial actions have no valid

standing under the ICZN for which only a published lectotype designation has standing. The relabeling of type material in this manner has no nomenclatural status and interferes with correct understanding of the actual type status of these syntypes. This author has identified numerous such "paratype" lots, some of which did indeed become paralectotypes in the subsequent literature, but most of which are really syntypes and have now been returned to the USNM type collection.

In contrast to the mollusks from the *Blake* publications, which had resulted in a vast subsequent literature containing numerous lectotype selections (the majority inadvertent), the mollusks from these *Albatross* expeditions have, as noted earlier, seldom been restudied, and most are still known only from the type material. Thus, the secondary literature is much smaller for this fauna.

There are, however, three publications that contain innumerable lectotype designations (nearly all inadvertent): Oldroyd's (1925–27) treatise on the marine mollusks of the northeastern Pacific and the two editions (1958, 1971) of Myra Keen's book on the marine mollusks of the tropical eastern Pacific. Although Oldroyd's treatise was judged to represent "essentially non-critical compilations of original descriptions . . ." (Coan and Kellogg, 1990: 175), she did include for many of Dall's species a statement that a certain lot was "Type" (albeit without further restriction). One of the major assets of Keen's books is that they include photographs of type specimens for many of the species treated. Few malacologists in recent years have noticed that in the back of these books, in the section titled "Sources of Illustrations," Keen (1958: 541–555; 1971: 935–966) provided not only the museum source of the figured specimen but also, for many type lots, the supposed type status.

It is obvious, however, that neither Oldroyd nor Keen researched the type status for the species described by Dall from the eastern Pacific. In many cases, Oldroyd or Keen cited a USNM specimen as "holotype" when in fact it was one of a syntype series. Therefore, their action constitutes a lectotype selection (ICZN Article 74) and has been so cited for numerous taxa in this catalog. This author has discussed these problems with several malacologists specializing in the eastern Pacific fauna. A review of the literature indicated that Jung (1989: 165) is the only source to have explicitly acknowledged this issue for a species described in Dall (1908). It is recommended that the curatorial staff of the museums whose type specimens were illustrated by Oldroyd or Keen, as well as researchers interested in the tropical eastern Pacific mollusk fauna, carefully check the relevant citations by Keen for other such inadvertent lectotype selections. Bieler (1993: 95) documented a similar problem for *Architectonica valenciennesii* Mörch, 1859.

An interesting point concerning Oldroyd's putative type statements is that our interpretation must be based on whether the USNM lot in fact had only one syntype specimen **at the time** of Oldroyd's publication. It will be recalled that in the 1950s–60s several researchers had "recataloged" certain USNM syntype lots. Suppose that a certain lot was one that Oldroyd had said to be "type"—today that lot might indeed contain only one specimen, but that might be a curatorial artifact of this subsequent recataloging process. If in Oldroyd's time that lot had instead comprised more than one specimen, then her "type" statement would not represent a valid lectotype selection.

It is obvious that the retroactive application of various ICZN provisions concerning the interpretation of type status to research or recuration done in good faith at the time represents a case of *ex post facto* judgment. One must consider that these researchers certainly could not have expected that their actions would be viewed in a different light by subsequent researchers following revised rules.

Note that despite the diverse technical

problems discussed here, there have been relatively few misinterpretations of taxa. This is ascribed to the general excellence of Dall's original descriptions and to the competence in discernment and interpretation of various subsequent authors.

One last point of some historical interest, which has not been noted in print previously, is brought out by a letter from Dall to Alexander Agassiz, dated October 10, 1896:

> Dear Professor, Yours of the 8th is at hand. . . . You may remember that there were two or three jars of the marines which did not turn up. A year or so later somebody sold some material in London which must have come from the *Albatross*, as I was informed by one of the London dealers; and I learned from Townsend that one of the employees [of the USFC] was suspected of stealing specimens, though it was not at the time capable of proof.°

The "London dealers" were presumably Sowerby & Fulton; one wonders whether or not any European conchologist was able to describe presumed new species from the stolen material or, indeed, whatever became of those specimens.

MATERIALS AND METHODS

The taxa described by Dall in his 1908 monograph were recorded and sorted into systematic sequence, by molluscan family. For each species, the citation to the original description is given, together with the type localities (mostly *Albatross* stations) as given by Dall. If Dall stated that a certain lot was "the type" (or similar wording), that is herein indicated. This listing was then carefully checked against the USNM type and general collections and the MCZ collection (in which types are housed together with the nontype material). Recognition of certain lots as types was facilitated by external evidence (ICZN Recommendation 72B). In addition, type specimens had been exchanged with S. S. Berry [1887–1984], a Californian malacologist who had a large private collection. The Berry collection is now in the Santa Barbara Museum of Natural History; Scott et al. (1990) documented the nongastropod types therein and P. H. Scott (email, July 19, 1995) kindly provided this author with a listing of the gastropod types described by Dall and now housed in that institution.

Also, researchers should be aware that later publications by Dall and various other authors have described new taxa from the three *Albatross* expeditions of Agassiz. In addition, the *Albatross* made numerous other cruises elsewhere in the northern Pacific (not sponsored by Agassiz) that have resulted in diverse systematic publications.

The 1908 report by Dall, in addition to comprising material from the three *Albatross* expeditions, also included specimens from various other collections, including several individual shell collectors. In the catalog, the name of these collectors, when given by Dall, is in all capitals, to distinguish it from the locality.

In some cases, it was not possible to find type material from all the stations as cited by Dall; either the specimens were lost or, more likely, they were subsequently reidentified as representing a different species, possibly in a different genus.

Dall (1908: 446–476) listed the *Albatross* dredging stations (3353–3437, 4567–4743) from the first and third expeditions; data from the earlier 1888 cruise can be found in Townsend (1901: 403ff.). For the reader's convenience, geographical data for those stations that represent type localities are given in the Appendix to this paper. Kabat (in press) discussed various problems concerning the localization of the *Blake* stations and the potential mixture of specimens and station data; these problems do not seem to have arisen for the *Albatross* material.

The subsequent literature on this fauna was checked for lectotype designations and illustrations of previously unfigured specimens, although as mentioned previously the two books of Keen (1958, 1971)

° Letter from Dall to Alexander Agassiz, October 10, 1896, MCZ Library Archives, bAg 241.10.1(100).

were the only major source of such citations. I have made no new lectotype designations herein, as such a task is best left for revisers of individual taxa.

This catalog was then re-sorted into a single alphabetical sequence by original binomen, with the current family name, as curated in the USNM collection, indicated for each species. There are inevitably some differences in the familial classification between the recently recurated collections of the USNM and the various older arrangements as used at the MCZ and other mollusk collections. For the reader's convenience, a Generic Index is placed at the end of this paper.

Abbreviations Used

ANSP	Academy of Natural Sciences of Philadelphia
CAS	California Academy of Sciences
DMNH	Delaware Museum of Natural History
fm	fathoms (1 fm = 6 feet = circa 1.83 meters)
MCZ	Museum of Comparative Zoology, Harvard University
SBMNH	Santa Barbara Museum of Natural History
USNM	U.S. National Museum (now the National Museum of Natural History, Smithsonian Institution) disarticulated (loose) valve (for the Bivalvia).

Note Regarding Types of Bivalvia

For the Bivalvia, many type lots consist of disarticulated (loose) valves. Specialists can best determine whether these valves represent matched pairs or different specimens. A further complication is that some bivalve families, notably the Propeamussiidae, have significant dimorphism in left/right valve size and/or sculpture. Unless otherwise specified, each bivalve lot has one specimen (= paired valves); others have either multiple specimens, or multiple loose valves, or a single valve.

CATALOG OF SPECIES-LEVEL TAXA

abbreviatus, Lepidopleurus halistreptus Dall, 1908: 354. *Albatross* 3417 [**7 syntypes, USNM 223498; 1 syntype, MCZ 27959; 3 syntypes, SBMNH 34461**]. Type material not mentioned by Ferreira (1979b: 153, 157). Leptochitonidae.

acrita, Leda (*Jupiteria*) Dall, 1908: 374–375. *Albatross* 2799 [**1 syntype, USNM 110690**; **numerous syntypes (100+ v), USNM 610320**; **syntypes (3 specimens + 5v), MCZ 27821**; **1 syntype, CAS 66509**; **syntypes (9 specimens + 4v), SBMNH 34057**]; *Albatross* 2794 [**1 syntype (1v), USNM 122761**]; *Albatross* 2801 [**1 syntype, USNM 96389**]; *Albatross* 2803 [**syntypes (11 specimens + 4v), USNM 96974**]. Nuculanidae.

agapea, Leda (*Jupiteria*) Dall, 1908: 373–374, plate 6, figures 4, 5. *Albatross* 3360 [**Lectotype, USNM 122911,** selected by Knudsen, as "the type" (1970: 26); **1 paralectotype, MCZ 27819**]; *Albatross* 3398 [**1 paralectotype (2v), USNM 122912**]. Nuculanidae.

agassizii, Borsonia (*Borsonella*) Dall, 1908: 275, plate 1, figure 5. *Albatross* 3361 [**Lectotype, USNM 123107**, selected by McLean in Keen, as "holotype" (1971: 959, caption to fig. 1759); **1 paralectotype, USNM 697375**]. Turridae.

agassizii, Cocculina Dall, 1908: 340. *Albatross* 4630 [**Holotype, USNM 110660** (figured by McLean in Keen, 1971: fig. 1763)]. Cocculinidae.

agassizii, Solemya (*Acharax*) Dall, 1908: 365–366, plate 16, figure 10. *Albatross* 3360 [**Lectotype (2v), USNM 106885** (broken), selected by Oldroyd, as "Type" (1925: 10); **1 paralectotype (2v), MCZ 27814** (broken)]; *Albatross* 3381 [**paralectotypes (4v), USNM 106886** (broken); **1 paralectotype (2v), MCZ 27815** (broken)]; *Albatross* 3382 [**1 paralectotype (1v), USNM 122945** (broken); **1 paralectotype (2v), MCZ**

27816 (broken)]; *Albatross* 3399 [**not found**]; *Albatross* 3434 [**not found**]; *Albatross* 4654 [**1 paralectotype (1v), USNM** (uncataloged)]. The type material from *Albatross* 3399 and 3434 could not be found; possibly it was in the old USNM alcohol collection? Solemyidae.

agujana, Nucula Dall, 1908: 370, plate 10, figures 6, 7. *Albatross* 4654 [**syntypes (3 specimens + 4v), USNM 110571**; **1 syntype, MCZ 27808**]. Nuculidae.

agujanus, Polinices (*Euspira*) Dall, 1908: 334, plate 9, figure 2. *Albatross* 4643 [**Holotype, USNM 110566** (figured by Marincovich, 1977: 291–292, pl. 25, fig. 7)]. Naticidae.

altina, Pleurotomella (*Gymnobela*) *agonia* Dall var. Dall, 1908: 278–279, plate 14, figure 9. *Albatross* 3366 ("type") [**Holotype, USNM 123137**]. Dall also recorded this species from *Albatross* 3365 (even giving the number, USNM 123136), but such records are excluded from the type series [ICZN Article 72(b)(vi)]. Turridae.

amabilis, Volutopsius "?" Dall, 1908: 305, plate 11, figure 9. *Albatross* 3392 [**Holotype, USNM 123008** (figured by Keen, 1971: fig. 1152)]. Buccinidae.

arciformis, Malletia (*Minormalletia*) Dall, 1908: 385–386, plate 15, figures 5, 6. *Albatross* 3417 [**2 syntypes, USNM 122926**; **1 syntype, MCZ 27833, 2v**]. Malletiidae.

armilda, Turris (*Surcula*) Dall, 1908: 262–263. *Albatross* 3017 [**1 syntype, USNM 110601; 2 syntypes, USNM 697380**]. Turridae.

atahualpa, Cylichnella (*Cylichnium*) Dall, 1908: 243, plate 11, figure 2. *Albatross* 3354 [**Holotype, USNM 123081**]. Cylichnidae.

atossa, Tindaria Dall, 1908: 388, plate 15, figures 3, 4. *Albatross* 3392 ("the type") [**Holotype, USNM 122920**]. Dall also recorded this species from *Albatross* 3393, but such records are excluded from the type series [ICZN Article 72(b)(vi)]. Nuculanidae.

balaenorum, Terebra (*Strioterebrum*) Dall, 1908: 252. *Albatross* 2835 [**Lectotype, USNM 110599**, selected by Keen, as "holotype" (1958: 554, caption to fig. 957; see also Bratcher and Cernohorsky, 1987: 151, fig. 151b); **3 paralectotypes, USNM 610318**]; W. J. FISHER, La Paz, Gulf of California [**not found**]. Terebridae.

bathymetrae, Stilifer (*Mucronalia*) Dall, 1908: 318. On a species of *Bathymetra* [Crinoidea; = *Antedon*?], *Albatross* 3381. This specimen was not seen by Dall but was cited from Hartlaub (1895: 146–147, pl. 4, fig. 25), who stated "An dem Exemplar sitzt als Schmarotzer festgeheftet ein *Stylifer* verwandte Schneckenart (nach Prof. v. Martens wahrscheinlich eine *Mucronalia*)." Warén (1980: 199) stated "Type material lost. I consider this a *nomen dubium*." Eulimidae.

benthima, Gemmula Dall, 1908: 267, plate 1, figure 7; plate 13, figure 4. *Albatross* 3392 [**Lectotype, USNM 123089**, selected by McLean in Keen, as "holotype" (1971: 958, caption to fig. 1650); **2 paralectotypes, USNM 537854; 1 paralectotype, MCZ 27894**]; *Albatross* 2807 [**3 paralectotypes, USNM 96485; 1 paralectotype, MCZ 27892**]; *Albatross* 3360 [**1 paralectotype, USNM 123087**]; *Albatross* 3365 [**1 paralectotype, USNM 123092**]; *Albatross* 3366 [**3 paralectotypes, USNM 123093; 2 paralectotypes, MCZ 27893**]; *Albatross* 3376 [**1 paralectotype, USNM 123088**]; *Albatross* 3413 [**1 paralectotype, USNM 123090**]. Turridae.

benthima, Malletia (*Minormalletia*) Dall, 1908: 386, plate 15, figures 1, 2. *Albatross* 3417 [**Holotype, USNM 122927**]. Malletiidae.

blanda, Daphnella (*Surculina*) Dall, 1908: 291, plate 3, figure 1. *Albatross* 3366 [**Holotype, USNM 123119**]. Turbinellidae.

borniana, Aligena Dall, 1908: 413, plate 10, figure 2. *Albatross* 4732 [**Holotype,**

USNM 110585 (figured by Harry, 1969: 176–177, figs. 30, 31)]. Kelliidae.

bridgesi, Terebra (*Strioterebrum*) Dall, 1908: 253. BRIDGES, Panama [**Lectotype, USNM 9404**, selected by Keen, as "holotype" (1971: 956, caption to fig. 1526, right; see also Bratcher and Cernohorsky, 1987: 144, pl. 42, figs. 162a, b); **7 paralectotypes, USNM 610319; 1 paralectotype, SBMNH 34779**]. Terebridae.

brunneopictum, Epitonium (*Ferminoscala*) Dall, 1908: 316–317, plate 8, figure 10. *Albatross* 2835 [**Holotype, USNM 97084** (figured by Keen, 1971: fig. 670)]. Epitoniidae.

calcar, Leda (*Spinula*) Dall 1908: 378, plate 10, figures 1, 10. *Albatross* 4658 [**1 syntype, USNM 110573** (broken) (as "type" in Knudsen, 1970: 39); **syntypes (2 specimens + 1v), USNM 683589** (broken); **1 syntype, MCZ 27825** (broken)]. Nuculanidae.

calcarella, Leda (*Spinula*) Dall, 1908: 378–379. *Albatross* 4656 [**1 syntype, USNM 110694**; **3 syntypes, USNM 110575** (**not found**)]. Nuculanidae.

calcipicta, Bursa (*Lampadopsis*) Dall, 1908: 320–321. *Albatross* 3368 [**Holotype, USNM 123027** (figured by Keen, 1958: fig. 328)]. Bursidae.

californica, Cancellaria (*Admete*?) Dall, 1908: 296–297, plate 4, figure 4. *Albatross* 2980 [**1 syntype, USNM 110626; 2 syntypes, USNM 635739**]; *Albatross* 3346 [**20+ syntypes, USNM 110624; 3 syntypes, MCZ 27928**]; *Albatross* 3194 [**2 syntypes, USNM 110625**]; *Albatross* 2839 [**1 syntype, USNM 122817**]; *Albatross* 2923 [**50+ syntypes, USNM 110627**]; *Albatross* 2936 [**3 syntypes, USNM 106823; 2 syntypes, USNM 110628**]; *Albatross* 4339 [**1 syntype, USNM 110629**]. Oldroyd (1927: 160) cited USNM 110626 as "Type," but this lot actually comprised more than one specimen at that time. Cancellariidae.

californica, Liotia (*Arene*) Dall, 1908: 344–345. *Albatross* 2984 [**1 syntype, USNM 110662; 5 syntypes, USNM 635457; 1 syntype, SBMNH 34780**]. Turbinidae.

californicus, Ptychatractus Dall, 1908: 299–300. *Albatross* 2923 [**1 syntype, USNM 193650; 1 syntype, USNM 635736**]. Turbinellidae.

callimene, Leda (*Jupiteria*) Dall, 1908: 372–373, plate 17, figures 3, 4. *Albatross* 3396 [**1 syntype, USNM 122910; numerous syntypes (30 + v), USNM 604252**; **syntypes (3v), MCZ 27818**; **1 syntype (1v), CAS 66408**; **syntypes (1 specimen + 1v), SBMNH 34058**]; Tome, Chile, in 14 fm [**numerous syntypes (20 + v), USNM 110689**]. Nuculanidae.

catallus, Alectrion (*Hima*) Dall, 1908: 307, plate 11, figure 11. *Albatross* 3355 [**Lectotype, USNM 123013**, selected by Keen, as "holotype" (1971: 954, caption to fig. 1292, left; see also Cernohorsky, 1975: 126–127, figs. 16, 17); **1 paralectotype, USNM 630936; 1 paralectotype, MCZ 27938**]. Nassariidae.

cetolaca, Mangilia Dall, 1908: 286. Replacement name for *Columbella* (*Aesopus*) *oldroydi* Arnold, 1903, non *Mangilia oldroydi* Arnold, 1903. Dall transferred *C.* (*A.*) *oldroydi* to the genus *Mangilia* at which it became a junior homonym. Turridae.

chilenica, Yoldia (*Yoldiella*) Dall, 1908: 380–381. *Albatross* 2781 [**2 syntypes, USNM 96923; syntypes (2 specimens + 8v), USNM 604253**; **1 syntype, MCZ 27837**]; *Albatross* 2782 [**syntypes (6v), USNM 96614**]. Nuculanidae.

chilensis, Capulus Dall, 1908: 329–330. *Albatross* 2781 [**1 syntype, USNM 96926; 1 syntype, USNM 678708**]. Capulidae.

chilensis, Poromya (*Dermatomya*) Dall, 1908: 430. *Albatross* 2785 [**Holotype, USNM 97135** (figured by Bernard, 1974: 90–91, pl. 25, figs. 1, 2)]. Poromyidae.

chrysocoma, Nucula Dall, 1908: 370–371, plate 18, figures 3, 4. *Albatross* 4656 [**syntypes (3 specimens + 2v), USNM**

110572; **1 syntype (2v), MCZ 27810**]; *Albatross* 2792 [**1 syntype (2v), USNM 122757**]; *Albatross* 3418 [**1 syntype, USNM 122899**]. Nuculidae.

chrysogona, Tellina (*Moerella*) Dall, 1908: 420–421, plate 10, figures 4, 8. *Albatross* 4642 [**syntypes (3v), USNM 110581**; **1 syntype (2v), MCZ 27855**]. Tellinidae.

citricus, Trophon (*Pascula*) Dall, 1908: 311–312. On the reefs at Easter Island [**Lectotype, USNM 110767**, selected by Rehder (1980: 74–75, pl. 9, fig. 11); **2 paralectotypes, USNM 633986**]. Muricidae.

clarinda, Pleurotomella (*Phymorhynchus*?) Dall, 1908: 285, plate 1, figure 3. *Albatross* 3381 [**Lectotype, USNM 123097**, selected by McLean in Keen, as "holotype" (1971: 961, caption to fig. 1863); **1 paralectotype, USNM 697423**]. Turridae.

clionella, Leucosyrinx "?" Dall, 1908: 270, plate 14, figure 3. *Albatross* 2792 ("types") [**4 syntypes, MCZ 27903; 2 syntypes, SBMNH 35488** (formerly USNM 97069)]. Dall also recorded this species from *Albatross* 3394, even providing the number USNM 123125 (which was cited as "holotype" by McLean in Keen, 1971: 958, caption to fig. 1666), but such records are excluded from the type series [ICZN Article 72(b)(vi)]. Turridae.

cocosensis, Pecten (*Cyclopecten*) Dall, 1908: 405, plate 6, figures 1, 3. *Albatross* 3369 [**Lectotype, USNM 122870**, selected by Grau, as "holotype" (1959: 30–31, pl. 9, fig. 2); **1 paralectotype (2v), USNM 610126**; **1 paralectotype, MCZ 27852**]. Propeamussiidae.

colombiana, Nucula Dall, 1908: 371–372. *Albatross* 2799 [**1 syntype, USNM 110686; numerous syntypes (30 + v), USNM 619714** (figured by Olsson, 1961: 57, pl. 1, fig. 3); **3 syntypes, MCZ 27812**]; *Albatross* 2805 [**not found**]; *Albatross* 2792 [**1 syntype (2v), USNM 606808**]; *Albatross* 2784 [**1 syntype, USNM 122743**]; *Albatross* 2783 [**1 syntype (2v), USNM 96917**]. Nuculidae.

complicatus, Petaloconchus Dall, 1908: 326. *Albatross* 3368 [**numerous syntypes, USNM 123035**]. Both Oldroyd (1927: 654–655) and Keen (1958: 548, caption to fig. 199; 1971: 947, caption to fig. 495) have stated that USNM 123035 was the "type" or "holotype," but in fact this lot is an aggregate consisting of numerous tubes, each representing an individual specimen. A valid lectotype designation would necessitate the labeling of a single tube as the lectotype. Vermetidae.

compressa, Tindaria Dall, 1908: 387, plate 15, figures 7, 8; plate 17, figures 15, 16. *Albatross* 3360 [**1 syntype, USNM 122921** (broken) (as "type" in Knudsen, 1970: 56)]; *Albatross* 3414 [**2 syntypes, USNM 122923; 1 syntype (2v), MCZ 27826**]. Tindariidae.

constrictus, Polinices (*Euspira*) Dall, 1908: 337. *Albatross* 2780 [**Holotype, USNM 97065**]. Naticidae.

corbicula, Cancellaria (*Merica*) Dall, 1908: 294–295, plate 1, figure 4. *Albatross* 2936 [**4 syntypes, USNM 106878; 2 syntypes, USNM 206430; 2 syntypes, USNM 635740; 1 syntype, MCZ 27906**]; *Albatross* 4382 [**1 syntype, USNM 110620**]; *Albatross* 4407 [**1 syntype, USNM 110621**]; *Albatross* 4425 [**1 syntype, USNM 110662**]. Oldroyd (1927: 153) stated "Type in United States National Museum," but she did not restrict this to any one specimen. Cancellariidae.

cordyla, Leda (*Leda*) Dall, 1908: 375–376, plate 6, figures 6, 7. *Albatross* 3354 [**1 syntype, USNM 122915**]; *Albatross* 2792 [**syntype (2v), USNM 122755**]. Nuculanidae.

coronadoi, Borsonia (*Borsonella*) Dall, 1908: 277–278, plate 14, figure 2. *Albatross* 2931 [**Holotype, USNM 110608** (see also Oldroyd, 1927: 91)]. Turridae.

cortezi, Daphnella (*Surculina*) Dall, 1908: 292. *Albatross* 2919 [**Lectotype, USNM 110613**; selected by Oldroyd, as "Type"

(1927: 168–169)]; *Albatross* 4353 [**1 paralectotype, USNM 204050** (figured by Dall, 1925: 23, pl. 1, fig. 7)]. Turbinellidae.

crawfordianus, Polinices (*Euspira*) Dall, 1908: 335–336, plate 11, figure 7. *Albatross* 3356 [**Lectotype, USNM 123044**, selected by Marincovich, as "holotype" (1977: 292–293, pl. 25, fig. 9)]; *Albatross* 3407 [**not found**]; *Albatross* 3431 [**1 paralectotype, USNM 123051**]; *Albatross* 4654 [**1 paralectotype, USNM 110659**]; DR. CRAWFORD, southern Chile [**1 paralectotype, USNM 102586**]. Naticidae.

crebristriata, Irenosyrinx "?" Dall, 1908: 272–273, plate 13, figure 10. *Albatross* 2859 [**Holotype, USNM 122563** (see also Oldroyd, 1927: 68)]. Turridae.

cylindrellus, Scaphander Dall, 1908: 239, plate 8, figure 1. *Albatross* 4672 [**Holotype, USNM 110563**]. Cylichnidae.

decapitatus, Scaphander Dall, 1908: 240. *Albatross* 3683 [**Holotype, USNM 110746**]. Cylichnidae.

decenna, Drillia Dall, 1908: 265. *Albatross* 2798 [**Holotype, USNM 110603**]. Turridae.

delicata, Hipponix Dall, 1908: 331. *Albatross* 3355 [**Holotype, USNM 123041** (figured by Keen, 1971: fig. 764)]. Hipponicidae.

diazi, Limopsis Dall, 1908: 397, plate 18, figure 7. *Albatross* 3418 [**10 syntypes, USNM 122892; 1 syntype (2v), MCZ 27847**]. Limopsidae.

dicella, Yoldia (*Yoldiella*) Dall, 1908: 382. *Albatross* 3418 [**syntypes (4v), USNM 122917** (as "type lot" in Keen, 1971: 936, caption to fig. 61)]. Nuculanidae.

diegensis, Borsonia (*Borsonella*) Dall, 1908: 275–276, plate 13, figure 11. *Albatross* 2923 [**1 syntype, USNM 122573; 1 syntype, USNM 697372**]. Oldroyd (1927: 92) cited USNM 122573 as "Type," but this lot actually comprised more than one specimen at that time. Turridae.

diegensis, Limopsis Dall, 1908: 395, plate 15, figures 13, 15. F. W. KELSEY, off San Diego, 80 fm [**1 syntype, USNM 110699**]; *Albatross* 2923 [**syntypes (1 specimen + 2v), USNM 122585; numerous syntypes (20+ specimens), USNM 111422; 1 syntype, MCZ 27844; numerous syntypes (20+ specimens), MCZ 187523; syntypes, ANSP 190954; syntypes (1 specimen + 2v), DMNH 20487; 4 syntypes, DMNH 43614; 5 syntypes, SBMNH 34060**]. Oldroyd (1925: 44) cited USNM 122585 as "Type," but this lot actually comprises more than one specimen. Limopsidae.

dinora, Pleurotomella (*Pleurotomella*) Dall, 1908: 281. *Albatross* 2807 [**Holotype, USNM 96479** (figured by McLean in Keen, 1971: fig. 1856)]. Turridae.

diomedae, Cocculina Dall, 1908: 341, plate 16, figures 4, 7. *Albatross* 3393 [**Holotype, USNM 123052**]. Cocculinidae.

diomedae, Lima (*Acesta*) Dall, 1908: 407–408, plate 7, figure 2. *Albatross* 3404 [**Holotype, USNM 122875**]. Limidae.

diomedaeus, Murex (*Tritonalia*) Dall, 1908: 313–314, plate 12, figures 4, 5. *Albatross* 3397 [**Holotype, USNM 123020** (figured by Keen, 1971: fig. 985, upper)]. Muricidae.

dolenta, Turris (*Surcula*) Dall, 1908: 262. *Albatross* 2804 ("type") [**Holotype, USNM 96645** (figured by Keen, 1958: fig. 902)]. Dall also recorded this species from *Albatross* 3389, but such records are excluded from the type series [ICZN Article 72(b)(vi)]. Turridae.

donacia, Vesicomya Dall, 1908: 417, plate 17, figures 9, 13. *Albatross* 3392 [**Holotype (1v), USNM 122929**]. Vesicomyidae.

dotella, Turris (*Surcula*) Dall, 1908: 263–264. *Albatross* 2823 [**Holotype, USNM 96731** (figured by Keen, 1958: fig. 842)]. Turridae.

edentula, Strombina Dall, 1908: 310–311. *Albatross* 2830 [**Lectotype, USNM 96578**, selected by Keen, as "holotype" (1971: 954, caption to fig. 1286; see also

Jung, 1989: 165–170, figs. 216–1–216–6), **1 paralectotype, USNM 859116**]. Columbellidae.

egregia, Pleurotomella (*Gymnobela*) Dall, 1908: 279. *Albatross* 4656 [**Holotype, USNM 110610** (figured by McLean in Keen, 1971: fig. 1851)]. Turridae.

eldorana, Gemmula Dall, 1908: 268, plate 14, figure 8. *Albatross* 3392 [**Lectotype, USNM 123120**, selected by McLean in Keen, as "holotype" (1971: 958, caption to fig. 1651); **1 paralectotype, USNM 537856; 1 paralectotype, MCZ 27897**]; *Albatross* 2807 [**1 paralectotype, USNM 96491; 1 paralectotype, USNM 537587**]. Turridae.

elegans, Solenosteira Dall, 1908: 300–301, plate 5, figure 6. *Albatross* 3355 [**5 syntypes, USNM 123003; 1 syntype, SBMNH 34667**]. A junior secondary homonym of *Cantharus elegans* Gray in Griffith and Pidgeon, 1834; renamed *Cantharus rehderi* Berry, 1962 (page 130). Buccinidae.

elevata, Oocorys Dall, 1908: 322–323, plate 8, figure 9. *Albatross* 4649 [**Holotype, USNM 110569**]. Cassidae.

encella, Mangilia Dall, 1908: 287–288, plate 14, figure 11. *Albatross* 3366 [**Lectotype, USNM 123113**, selected by McLean in Keen, as "holotype" (1971: 961, caption to fig. 1852); **1 paralectotype, USNM 697376**]. Turridae.

endemica, Arca (*Cucullaria*) Dall, 1908: 399, plate 17, figure 8. *Albatross* 4721 [**1 syntype, USNM 110578**]; *Albatross* 4685 [**1 syntype, USNM 110707**]. Arcidae.

enora, Mangilia Dall, 1908: 286, plate 4, figure 6. *Albatross* 3376 [**Holotype, USNM 123121** (figured by McLean in Keen, 1971: fig. 1857)]. Turridae.

equatorialis, Poromya (*Dermatomya*) Dall, 1908: 429–430, plate 5, figures 1, 2. *Albatross* 3360 [**Lectotype (2v), USNM 122942**; selected by Bernard, as "holotype" (1974: 91–92, pl. 22, figs. 2–4)]; *Albatross* 2793 [**1 paralectotype (2v), MCZ 27859**]. Poromyidae.

equatorialis, Solariella Dall, 1908: 351–352, plate 5, figure 11. *Albatross* 3376 [**Lectotype, USNM 122964** ("125964"), selected by McLean in Keen, as "holotype" (1971: 944, caption to fig. 65); **4 paralectotypes, USNM 635471; 1 paralectotype, MCZ 27955; 1 paralectotype, SBMNH 34776**]; *Albatross* 3375 [**2 paralectotypes, USNM 122963**]; *Albatross* 3366 [**2 paralectotypes, USNM 122962**]. Oldroyd (1927: 796–797) cited USNM "125964" [= 122964] as "Type," but this lot actually comprised more than one specimen at that time; much later it was recurated into two lots, allowing for McLean's lectotype selection. Trochidae.

erosina, Leucosyrinx Dall, 1908: 269, plate 2, figure 1. *Albatross* 3360 [**Lectotype, USNM 123106**, selected by McLean in Keen, as "holotype" (1971: 960, caption to fig. 1763); **2 paralectotypes, USNM 697374; 2 paralectotypes, MCZ 27902**]. Turridae.

esilda, Pleurotomella (*Pleurotomella*) Dall, 1908: 282. *Albatross* 3395 [**Holotype, USNM 123126** (figured by McLean in Keen, 1971: fig. 1668)]. Turridae.

estuarinus, Acteon (*Microglyphis*) Dall, 1908: 238. *Albatross* 3194 [**Lectotype, USNM 110598**, selected by Keen, as "holotype" (1971: 962, caption to fig. 2232); **2 paralectotypes, USNM 678736**]. Oldroyd (1927: 27) stated "Type in the United States National Museum" without specifying a lot or specimen; at that time, USNM 110598 actually comprised three syntypes. Acteonidae.

esuriens, Gemmula Dall, 1908: 265–266. *Albatross* 3392 [**1 syntype, USNM 123128**]; *Albatross* 3407 [**1 syntype, MCZ 27895** (formerly USNM 123129)]. Turridae.

exopleura, Cancellaria (*Narona*) Dall, 1908: 294. *Albatross* 2804 [**Lectotype, USNM 96638**, selected by Keen, as "holotype" (1958: 552, caption to fig. 701); **1 paralectotype, MCZ 27926**]; DR. JONES, Payta, Peru [**1 paralectotype, USNM 46286**]. Cancellariidae.

exsarcus, Alectrion (*Tritia*) Dall, 1908: 308, plate 11, figure 12. *Albatross* 4642 [**Holotype, USNM 110565** (figured by Keen, 1971: fig. 1297; see also Cernohorsky, 1975: 146, figs. 52, 53)]. Nassariidae.

ferminianum, Epitonium (*Ferminoscala*) Dall, 1908: 316, plate 8, figure 8. *Albatross* 2834 ("figured type") [**Holotype, USNM 96818**]. Dall also recorded this species from *Albatross* 2804, 3391, and 3034, but such records are excluded from the type series. Epitoniidae.

fluctigera, Tellina (*Phyllodina*) Dall, 1908: 419–420. *Albatross* 3355 [**Holotype (1v), USNM 122935** (figured by Keen, 1958: fig. 407; 1971: fig. 545)]. Tellinidae.

fragillissimus, Fusinus Dall, 1908: 301–302, plate 12, figure 6. *Albatross* 3398 [**Holotype, USNM 123007** (figured by Keen, 1971: fig. 1347)]. Transferred from Fasciolariidae to Buccinidae by Olsson (1971: 57–58, figs. 12, 24, 25). Buccinidae.

fusidens, Columbella (*Anachis*) Dall, 1908: 309, plate 11, figure 13. *Albatross* 4642 [**1 syntype, USNM 110616; 1 syntype, USNM 678719; 1 syntype, MCZ 27944**]. Columbellidae.

fusinella, Turris (*Surcula*) Dall, 1908: 261–262, plate 14, figure 7. *Albatross* 3391 [**1 syntype, USNM 123086**]; *Albatross* 3017 [**1 syntype, USNM 110600; 1 syntype, MCZ 27900**]. Turridae.

galapagana, Solariella Dall, 1908: 350–351, plate 4, figure 2. *Albatross* 3413 [**Holotype, USNM 122959** (figured by McLean in Keen, 1971: fig. 66)]. Trochidae.

garretti, Myonera Dall, 1908: 434–435, plate 5, figure 4. *Albatross* 3380 [**Holotype, USNM 122941** (figured by Bernard, 1974: 70–71, pl. 19, fig. 1)]. Cuspidariidae.

genilda, Mangilia "?" Dall, 1908: 286–287, plate 13, figure 3. *Albatross* 3392 [**1 paralectotype, USNM 123131**]; *Albatross* 3393 [**Lectotype, USNM 123132**, selected by McLean in Keen, as "holotype" (1971: 958, caption to fig. 1644); **2 paralectotypes, USNM 517974; 1 paralectotype, MCZ 27910**]. Turridae.

goniopleura, Alectrion (*Tritia*?) Dall, 1908: 308–309. *Albatross* 4641 [**Holotype, USNM 110630** (figured by Keen, 1971: fig. 1301)]. Nassariidae.

granula, Yoldia (*Yoldiella*) Dall, 1908: 382. *Albatross* 2778 [**Holotype, USNM 110693**]. Nuculanidae.

herilda, Gemmula Dall, 1908: 266–267. *Albatross* 3360 [**Holotype, USNM 123091** (figured by McLean in Keen, 1971: fig. 1670; however, the catalogue number is given on page 958 as USNM 123130, which is actually that of the following species in the book, *monochorda*)]. Turridae.

hesperus, Macoma (*Psammacoma*) Dall, 1908: 421–422. *Albatross* 3355 ["2355"] [**Holotype (1v), USNM 122936** (figured by Keen, 1971: fig. 564)]. Tellinidae.

hupeana, Macoma Dall, 1908: 421. Replacement name for *Tellina inornata* Hupé in Gay, 1854, non Hanley, 1844. Tellinidae.

immaculata, Glyphostoma Dall, 1908: 289–290. plate 1, figure 9. *Albatross* 3391 [**Lectotype, USNM 123115**, selected by McLean in Keen, as "holotype" (1971: 960, caption to fig. 1786); **1 paralectotype, USNM 697378**]. Turridae.

imparella, Daphnella (*Eubela*) Dall, 1908: 291, plate 2, figure 2. *Albatross* 3392 [**Lectotype, USNM 123114**, selected by McLean in Keen, as "holotype" (1971: 961, caption to fig. 1853); **7 paralectotypes, USNM 697377; 2 paralectotypes, MCZ 27924**]. Turridae.

inca, Cylichnella (*Bullinella*) Dall, 1908: 242, plate 11, figure 3. *Albatross* 3392 [**Holotype, USNM 123080**]. Cylichnidae.

incongruus, Lepidopleurus Dall, 1908: 355. *Albatross* 3354 [**Lectotype, USNM 122969**, selected by Ferreira, as "holotype" (1979b: 157–158, fig. 29; see

also Kaas and van Belle, 1985: 88–89, figs. 1–8); **1 paralectotype, MCZ 27957** (overlooked by Ferreira, 1979b)]. Leptochitonidae.

indolens, Yoldie [sic = *Yoldia*] (*Yoldiella*) Dall, 1908: 381. *Albatross* 2784 [**syntypes (20 + v), USNM 122740**; **syntypes (1 specimen + 2v), MCZ 27838**]; *Albatross* 2785 [**syntypes (5 specimens + 9v), USNM 96908**]. Nuculanidae.

inequalis, Malletia Dall, 1908: 383–384. *Albatross* 2772 [**syntype (2v), USNM 193350**]; *Albatross* 2778 [**1 syntype (1v), USNM 193349**]. Malletiidae.

infrequens, Yoldia (*Yoldiella*?) Dall, 1908: 381. *Albatross* 2784 [**1 syntype (1v), USNM 110692**]; *Albatross* 2783 [**1 syntype, USNM 96908**]. Nuculanidae.

ira, Corbula (*Cuneocorbula*) Dall, 1908: 423. *Albatross* 3355 [**syntypes (3v), USNM 122944** (as "holotype" in Keen, 1971: 943, caption to fig. 687, but all three valves were figured!)]. Corbulidae.

isogonia, Pleurotomella (*Gymnobela*) Dall, 1908: 279–280, plate 4, figure 3. *Albatross* 3393 [**Holotype, USNM 123112** (figured by McLean in Keen, 1971: fig. 1866)]. Turridae.

juarezi, Limopsis Dall, 1908: 396, plate 18, figure 8. *Albatross* 3360 [**syntypes (4 specimens + 6v), USNM 122891**; **1 syntype, MCZ 27846; 1 syntype, SBMNH 34680**]; *Albatross* 3418 [**1 syntype, USNM 110559**]. Limopsidae.

leonilda, Yoldia (*Yoldiella*) Dall, 1908: 382–383. *Albatross* 3360 [**Holotype, USNM 122909** (broken)]. Nuculanidae.

leonis, Irenosyrinx persimilis Dall var.? Dall, 1908: 272. *Albatross* 3074 [**1 syntype, USNM 110605; 1 syntype, USNM 697418; 1 syntype, MCZ 27919**]. Oldroyd (1927: 66) cited USNM 110605 as "Type," but this lot actually comprised more than one specimen at that time. Turridae.

liriope, Pecten (*Pseudamusium*) Dall, 1908: 402. *Albatross* 3392 [**Lectotype, USNM 122869**, selected by Grau as "holotype" (1959: 27–28, pl. 8, fig. 1; see also Keen, 1971: fig. 189); **1 paralectotype (2v), USNM 609941**; **1 paralectotype, MCZ 27850**]. Propeamussiidae.

litorinus, Polinices (*Euspira*) Dall, 1908: 337–338. *Albatross* 2807 [**Lectotype, USNM 96481**, selected by Marincovich, as "holotype" (1977: 293–294, pl. 25, fig. 10); **4 paralectotypes, USNM 678712; 2 paralectotypes, MCZ 27948**]. Marincovich (1977: 294) incorrectly stated that this species was ". . . known from a single specimen . . ."; in fact, six other type specimens are extant. Naticidae.

lobula, Leda (*Jupiteria*) Dall, 1908: 375. *Albatross* 3422 [**Holotype, USNM 122918** (figured by Keen, 1958: fig. 21)]. Nuculanidae.

loshka, Leda (*Leda*) Dall, 1908: 376, plate 17, figure 2. *Albatross* 3392 [**2 syntypes, USNM 122916; 1 syntype (2v), MCZ 27823**]. Nuculanidae.

lucana, Terebra (*Strioterebrum*) Dall, 1908: 252–253. *Albatross* 2830 [**Lectotype, USNM 96567**, selected by Keen, as "holotype" (1971: 956, caption to fig. 1548, left; see also Bratcher and Cernohorsky, 1987: 134, pl. 38, fig. 149a); **6 paralectotypes, USNM 610317; 1 paralectotype, SBMNH 34778**]. Terebridae.

mabillei, Rochefortia Dall, 1908: 413–414. *Albatross* 2778 [**syntypes (4v), USNM 110714**]. Leptonidae.

mabilliana, Limopsis Dall, 1908: 395–396. *Albatross* 2780 [**Holotype, USNM 110703**]. Limopsidae.

magellanicus, Corneocyclas Dall, 1908: 411. *Albatross* 2778, "a single right valve evidently washed into the sea from some stream" [**Holotype (1v), USNM 110712**]. Sphaeriidae.

malpelonium, Amusium (*Propeamusium*) Dall, 1908: 405–406, plate 6, figure 9. *Albatross* 3360 [**syntypes (7 specimens + 9v), USNM 122871**]; *Albatross* 3374 [**numerous syntypes (20+ specimens), USNM 122873**]; *Albatross*

3381 [**6 syntypes, USNM 122874**]; *Albatross* 3361 [**syntypes (8 specimens + 9v), USNM 122872**]; *Albatross* 3684 [**not found**]. Grau (1959: 14, pl. 2, fig. 1) referred to "Holotype: U.S. National Museum. Type locality: *Albatross* station 3360 . . . ." However, Grau did not specify which of numerous specimens from USNM 122871 (*Albatross* 3360) was the "holotype" (i.e., the lectotype), and the figured specimen is actually from *Albatross* 3374 (captioned by Grau as a "paratype"). Knudsen (1970: 96) also referred to "the type from *Albatross* St. 3360" but again did not specify a lectotype. Propeamussiidae.

mantana, Yoldia (*Yoldiella*?) Dall, 1908: 381–382. *Albatross* 2792 [**Holotype, USNM 122756** (figured by Keen, 1971: fig. 63)]. Nuculanidae.

mariana, Turritella Dall, 1908: 327, plate 11, figure 14. *Albatross* 3427 [**Holotype, USNM 123036** (see also Oldroyd, 1927: 656–657)]. Turritellidae.

mazatlanicus, Acteon (*Microglyphis*) Dall, 1908: 237, plate 5, figure 7. *Albatross* 3431 [**Holotype, USNM 123075**]. Acteonidae.

mexicana, Tindaria Dall, 1908: 389, plate 17, figures 11, 14. *Albatross* 3418 [**Holotype, USNM 122925** (see also Oldroyd, 1925: 40–41)]. Nuculanidae.

mexicana, Xylophaga Dall, 1908: 425. *Albatross* 3422 ("two right valves") [**Lectotype (1v), USNM 122947**, selected by Turner, as "holotype" (1955: 150–151, pl. 90); **1 paralectotype (1v), USNM 887577**]. Oldroyd (1925: 215) stated "Type in U.S.N.M.," but she did not indicate the lot or specimen. Pholadidae.

microsoma, Cancellaria (*Merica*?) Dall, 1908: 296, plate 11, figure 10. *Albatross* 3418 [**Lectotype, USNM 122997,** selected by Oldroyd, as "Type" (1927: 157); **1 paralectotype, MCZ 27927**]. Cancellariidae.

minuscula, Pholadidea (*Penitella*) Dall, 1908: 425. *Albatross* 3392 [**syntypes (1 specimen + 3v + 2 mesoplaxes), USNM 122946**]. Turner (1955: 113, pl. 66, fig. 1) stated that USNM 122946 was the "holotype," but she did not specify which of the syntypes was the holotype. Turner's figure is of the mesoplax of the "holotype," but this is not sufficient to determine the holotype itself. Pholadidae.

miser, Alectrion (*Hima*) Dall, 1908: 307–308, plate 4, figure 1. *Albatross* 3355 [**1 syntype, USNM 123014; 2 syntypes, USNM 678729; 1 syntype, MCZ 27939**]; *Albatross* 3354 [**9 syntypes, USNM 123012; 2 syntypes, MCZ 27940; 1 syntype, SBMNH 34775**]; *Albatross* 3387 [**1 syntype, USNM 123015**]; *Albatross* 3389 [**1 syntype, USNM 106894**]; *Albatross* 3391 [**1 syntype, USNM 123016**]; *Albatross* 3396 [**8 syntypes, USNM 123017**]; *Albatross* 3422 [**1 syntype, USNM 123018**]. Nassariidae.

miser, Pecten (*Pallium*) Dall, 1908: 401, plate 8, figure 6. *Albatross* 3355 ("two upper valves") [**1 syntype (1v), USNM 122862**; **1 syntype (1v), MCZ 27849**]. Pectinidae.

monochorda, Clinura Dall, 1908: 292–293, plate 13, figure 1. *Albatross* 3393 [**Holotype, USNM 123130** (figured by McLean in Keen, 1971: fig. 1671)]. Turridae.

mörchii, Troschelia (*Thalassoplanes*) Dall, 1908: 303–304. *Albatross* 3684 [**Holotype, USNM 110750**]. Buccinidae.

morgana, Bullaria (*Leucophysema*) Dall, 1908: 244, plate 11, figure 4. *Albatross* 3392 [**1 syntype, USNM 123082; 1 syntype, MCZ 27920**]. Bullidae.

movilla, Mangilia Dall, 1908: 285–286, plate 14, figure 6. *Albatross* 3418 [**Lectotype, USNM 123118**, selected by McLean in Keen, as "holotype" (1971: 958, caption to fig. 1672); **1 paralectotype, MCZ 27911**]. Turridae.

nassa, Cocculina Dall, 1908: 341, plate 16, figures 3, 6. *Albatross* 3392 [**1 syntype, USNM 123053; 4 syntypes, USNM 678688; 1 syntype, MCZ 27905; 1**

syntype, SBMNH 34781]. Cocculinidae.

neoceanicus, Pecten (*Pseudamusium*) Dall, 1908: 402–403, plate 9, figure 4. *Albatross* 4721 [**Holotype, USNM 110579** (figured by Grau, 1959: 56–57, pl. 2, fig. 2)]. Pectinidae.

nesiotes, Thais Dall, 1908: 311. Easter Island (shore) [**Lectotype, USNM 110766**, selected by Rehder, as "holotype" (1980: 73–74); **2 paralectotypes, USNM 633987**]. Thaididae.

notilla, Turris (*Surcula*) Dall, 1908: 263. *Albatross* 3017 [**Holotype, USNM 110602** (figured by Keen, 1958: fig. 906)]. Turridae.

nucleator, Arca (*Bathyarca*) Dall, 1908: 397–398, plate 18, figure 9. *Albatross* 3392 [**syntypes, USNM 122876 (1 specimen + 1v)**; **1 syntype, MCZ 27848**]. Oldroyd (1925: 46) cited USNM 122876 as "Type," but this lot actually comprises more than one specimen. Arcidae.

occidentalis, Cavolina Dall, 1908: 233, pl. 12, figs. 1, 1b, 1c. Type locality not given [**1 syntype, USNM 110591; 5 syntypes, USNM 734213** (both lots from North Pacific Ocean, 38°N, 137°W) (see also Spoel, 1967: 95)]. Cavoliniidae.

occidentalis, Seguenzia Dall, 1908: 325. *Albatross* 3418 [**Lectotype, USNM 123033**, selected by McLean in Keen, as "holotype" (1971: 945, caption to fig. 177); **1 paralectotype, MCZ 27941**]. Seguenziidae.

oceanica, Pleurotomella (*Phymorhynchus*) Dall, 1908: 284–285. *Albatross* 3681 [**Holotype, USNM 110751**]. Turridae.

opacus, Lepidopleurus Dall, 1908: 354–355. *Albatross* 4647 [**Lectotype, USNM 110664**, selected by Smith and Ferreira, as "holotype" (1977: 84, fig. 3; see also Ferreira, 1979b: 153, 154); **1 paralectotype, USNM 887578** (disarticulated; figured in Smith and Ferreira, 1977: fig. 4); **1 paralectotype, SBMNH 34460**]; *Albatross* 3392 [**1 paralectotype, USNM 122970; 2 paralectotypes, USNM 122972; 1 paralectotype, MCZ 27960**]. Leptochitonidae.

ophioderma, Ischnochiton Dall, 1908: 356. On the shore at Perico Island, Panama Bay [**Lectotype, USNM 110764**, selected by Smith (1977: 229); **1 paralectotype, USNM 880053**]. A senior homonym and a senior synonym of *Ischnochiton ophioderma* Dall, 1919 (see also Baker, 1937). Ischnochitonidae.

orariana, Clathurella Dall, 1908: 288, plate 14, figure 12. *Albatross* 3392 [**Holotype, USNM 123117** (figured by McLean in Keen, 1971: fig. 1859)]. *Pleurotomella oceanida* Dall, 1919 is based on the same type specimen (fide McLean in Keen, 1971: 764). Turridae.

othello, Natica (*Cochlis*) Dall, 1908: 332–333. STEARNS, Panama ("types") [**Lectotype, USNM 46446**, selected by Marincovich, as "holotype" (1977: 377–379, pl. 37, fig. 1), **2 paralectotypes, USNM 678715**]. Dall also recorded this species from *Albatross* 2799, 2800, 2801, 2803, 2804, 3354, and 3392, but such records are excluded from the type series [ICZN Article 72(b)(vi)]. Naticidae.

pacifica, Cerithioderma Dall, 1908: 324–325. *Albatross* 3392 [**Lectotype, USNM 123032**, selected by Warén and Bouchet (1986: 161–162, figs. 4, 17; also figured by Keen, 1971: fig. 836); **1 paralectotype, USNM 887576**]. Provannidae.

pacifica, Leucosyrinx "?" Dall, 1908: 270–271, plate 12, figure 3. *Albatross* 2859 [**Holotype, USNM 122590** (see also Oldroyd, 1927: 67)]. Buccinidae.

pacifica, Lyonsiella Dall, 1908: 428. *Albatross* 4693 [**Holotype, USNM 110583** (figured by Bernard, 1974: 111–112, pl. 28, figs. 1, 2)]. Verticordiidae.

pacificum, Bathysciadium Dall, 1908: 339–340, plate 9, figures 1, 3, 7. *Albatross* 4656 [**1 syntype, USNM 110570; 1 syntype, USNM 678690**]. Bathysciadiidae.

pacis, Liotia (*Arene*) Dall, 1908: 345. *Albatross* 2996 [**Lectotype, USNM**

110663, selected by McLean in Keen, as "holotype" (1971: 945, caption to fig. 136); **1 paralectotype, USNM 635451**]. Turbinidae.

panamella, Clathurella Dall, 1908: 288–289, plate 14, figure 1. *Albatross* 3391 [**1 syntype, USNM 123104**]; *Albatross* 2804 [**6 syntypes, USNM 122771**]. Turridae.

panamense, Dentalium megathyris Dall, 1908: 358. *Albatross* 3360 [**1 syntype, USNM 122982**]; *Albatross* 3361 [**7 syntypes, USNM 122977; 1 syntype, USNM 594263; 1 syntype, SBMNH 35019**]; *Albatross* 3381 [**16 syntypes, USNM 122975; 3 syntypes, MCZ 27967** (broken)]. Dentaliidae.

panamensis, Acteon Dall, 1908: 236–237, plate 11, figure 6. *Albatross* 3392 [**Holotype, USNM 123074**]. Acteonidae.

panamensis, Cuspidaria Dall, 1908: 432, plate 16, figure 2. *Albatross* 3394 [**Holotype, USNM 122937** (see also Bernard, 1974: 40–41, pl. 13, figs. 5, 6)]. Cuspidariidae.

panamensis, Fusinus Dall, 1908: 301. *Albatross* 3391 [**Holotype, USNM 123004**]. Fasciolariidae.

panamensis, Leptothyra Dall, 1908: 342–343, plate 5, figure 9. *Albatross* 3358 [**Holotype, USNM 123055** (figured by McLean in Keen, 1971: fig. 140)]. Turbinidae.

panamensis, Lyonsia Dall, 1908: 427, plate 18, figure 12. *Albatross* 4630 [**Holotype (1v), USNM 110584**]. Lyonsiidae.

panamensis, Pecten (*Pseudamusium*) Dall, 1908: 404, plate 6, figures 8, 10. *Albatross* 3354 [**syntypes (9v), USNM 122865**; **syntypes (4v), MCZ 27851**]; *Albatross* 3389 [**numerous syntypes (20 + v), USNM 106895**]; *Albatross* 3396 [**syntypes (16v), USNM 122866**]; *Albatross* 3407 [**1 syntype (1v), USNM 122867**]; *Albatross* 3422 [**1 syntype, USNM 122868**]. A junior homonym (non Dall, 1898); renamed *Pecten* (*Delectopecten*) *zacae* Hertlein, 1935 (pages 321–322). However, Hertlein used his own specimens (in the CAS) as the "holotype" and "paratypes" of *zacae*, which is incorrect, as the type material remains that of the original name! Grau (1959: 51) stated "Holotype: U.S. National Museum," but the exact lot was not specified. Pectinidae.

panamensis, Protocardia Dall, 1908: 415, plate 18, figure 1. *Albatross* 3355 [**Lectotype, USNM 122928**, selected by Olsson, as "holotype" (1961: 254, pl. 39, fig. 4); **paralectotypes (3 specimens + 10v), USNM 609954**; **paralectotypes (1 specimen + 2v), MCZ 27862**; **1 paralectotype, CAS 64429**]. Cardiidae.

panamensis, Solemya (*Petrasma*) Dall, 1908: 366. *Albatross* 2799 [**Lectotype, USNM 110678** (broken), selected by Oldroyd, as "Type" (1925: 11; see also Keen, 1958: 547, caption to fig. 605)]; *Albatross* 2973 [**1 paralectotype, USNM 110679 (not found)**]. Although Oldroyd cited "110679," the station given by her was 2799 and her catalog number appears to be a typographical error. Solemyidae.

panamensis, Terebra (*Strioterebrum*) Dall, 1908: 250–251, plate 5, figure 10. *Albatross* 3391 ["3291"] [**Lectotype, USNM 123084**, selected by Keen, as "holotype" (1971: 957, caption to fig. 1555, right; see also Bratcher and Cernohorsky, 1987: 148, 150, pl. 44, figs. 168a–c); **5 paralectotypes, USNM 678732; 1 paralectotype, SBMNH 34777**]; *Albatross* 2834 [**1 paralectotype, USNM 96714**]. Terebridae.

panamensis, Tindaria Dall, 1908: 388, plate 17, figures 10, 12. *Albatross* 3392 [**syntypes (3 specimens + 4v), USNM 122922**; **1 syntype (2v), MCZ 27827**]. Tindariidae.

panamensis, Yoldia (*Orthoyoldia*) Dall, 1908: 380. *Albatross* 3354 [**Lectotype, USNM 122900**, selected by Keen, as "holotype" (1971: 936, caption to fig. 59); **1 paralectotype, MCZ 27836**]; *Albatross* 3355 [**1 paralectotype (2v), USNM 122901** (broken)]. Nuculanidae.

panamina, Nucula Dall, 1908: 368, plate 6, figure 11. *Albatross* 3360 [**syntypes (3 specimens + 4v), USNM 122894** (as "type" in Knudsen, 1970: 19)]. Nuculidae.

pardoanus, Polinices (*Euspira*) Dall, 1908: 336. *Albatross* 3361 [**Lectotype, USNM 123046**, selected by Keen, as "holotype" (1971: 950, caption to fig. 887; see also Marincovich, 1977: 294–295, pl. 25, fig. 11)]; *Albatross* 3407 [**1 paralectotype, USNM 123050**]; *Albatross* 3366 [**1 paralectotype, USNM 123047**]. Naticidae.

parella, Pleurotomella (*Pleurotomella*) Dall, 1908: 282–283, plate 14, figure 4. *Albatross* 3376 [**Holotype, USNM 123135** (figured by McLean in Keen, 1971: fig. 1860)]. Turridae.

pasca, Pecten (*Chalmys*) [sic = *Chlamys*] Dall, 1908: 401–402. Easter Island (beach) [**Holotype (1v), USNM 110765** (figured by Rehder, 1980: 109, pl. 13, fig. 6)]. Pectinidae.

patagonicus, Phaseolus (*Silicula*) Dall, 1908: 392. *Albatross* 2783 [**Holotype (1v), USNM 96914**]. Phaseolidae.

pedroana, Terebra (*Strioterebrum*) Dall, 1908: 251. STEARNS, San Pedro, California [**1 paralectotype, USNM 32772 (not found)**]; Mrs. BURTON WILLIAMSON, San Pedro, California [**Lectotype, USNM 118806**, selected by Bratcher and Cernohorsky, as "holotype" (1987: 154, pl. 46, figs. 179a, b]. Oldroyd (1927: 60) cited both USNM lots as "Type" without further restriction. Terebridae.

periconis, Callistochiton Dall, 1908: 355–356. Perico Island, Panama Bay, on the reefs [**Holotype, USNM 110763** (see also Ferreira, 1979a: 458–460; Kaas and van Belle, 1994: 176–178)]. Ischnochitonidae.

perla, Poromya Dall, 1908: 428–429, plate 18, figures 2, 5. *Albatross* 3392 [**Holotype, USNM 122930** (figured by Bernard, 1974: 82–83, pl. 22, figs. 1, 2)]. Poromyidae.

pernodata, Gemmula esuriens Dall **var.** Dall 1908: 266. *Albatross* 3414 [**Holotype, USNM 123127** (see also Oldroyd, 1927: 77–78)]. Turridae.

peruviana, Clinura Dall, 1908: 293, plate 13, figure 2. *Albatross* 4654 [**Holotype, USNM 110564** (figured by McLean in Keen, 1971: fig. 1673)]. Turridae.

peruviana, Leda (*Leda*) "nom. prov." Dall, 1908: 377. *Albatross* 4654 [**Holotype (1v), USNM 110691**]. This name is a junior primary homonym of *Leda peruviana* Dall, 1898 (which was proposed as a replacement name for *Leda acuminata* Nelson, 1870, non Buch, 1845!). Nuculanidae.

peruviana, Malletia Dall, 1908: 384, plate 10, figures 3, 5. *Albatross* 4654 [**syntypes (1 specimen + 1v), USNM 110574** (as "holotype" in Scott et al., 1990: 9); **numerous syntypes (30 + v), USNM 110576**; **syntypes (6v), MCZ 27834**; **syntypes (1 specimen + 2v), SBMNH 34678**]. The "holotype" citation of Scott et al. (1990) is not a valid lectotype selection because a single specimen was not specified. Malletiidae.

peruvianum, Dentalium Dall, 1908: 358. *Albatross* 4656 ("the type specimen") [**Holotype, USNM 110667**]; *Albatross* 4649 [**1 paratype, USNM 110666** (fragment)]. Dentaliidae.

peruvianus, Cadulus (*Gadila*) Dall, 1908: 361. *Albatross* 4654 [**Lectotype, USNM 110671**; selected by Keen, as "holotype" (1971: 965, caption to figure 21); **2 paralectotypes, USNM 602250; 1 paralectotype, MCZ 27972**]; *Albatross* 2807 [**1 paralectotype, USNM 122806**]. Siphonodentaliidae.

pigafettae, Nucula Dall, 1908: 369–370. *Albatross* 2780 [**syntypes (1 specimen + 2v), USNM 96243**; **syntypes (4 specimens + 8v), USNM 604256**; **syntypes (1 specimen + 3v), MCZ 27807**]. Nuculidae.

pisum, Aligena Dall, 1908: 413. *Albatross* 2778 [**Holotype, USNM 110715**]. Transferred from Kelliidae to Thyasiridae by Harry (1969: 177–178, figs. 32, 33). Thyasiridae.

pizarro, Cylichnella (*Cylichnium*) Dall, 1908: 243, plate 11, figure 1. *Albatross* 3392 [**Holotype, USNM 123079**]. Cylichnidae.

planetica, Cuspidaria (*Cardiomya*) Dall, 1908: 433. *Albatross* 2925 ("types") [**Lectotype, USNM 110720**, selected by Oldroyd, as "Type" (1925: 99–100; see also Keen, 1971: 944, caption to fig. 783); **paralectotypes (5v), USNM 887579** (broken)]. Bernard (1974: 66) referred to USNM 110720 as "holotype" but then stated that "the type material consists of four syntypes," which is an inexplicable contradiction by Bernard. Dall also recorded this species from *Albatross* 3400, 3059, and 3609 and Captain's Harbor, Alaska, but such records are excluded from the type series [ICZN Article 72(b)(vi)]. Cuspidariidae.

planeticus, Scaphander (*Sabatina*) Dall, 1908: 241. *Albatross* 3684 [**Holotype, USNM 110748**]. Cylichnidae.

plicatella, Clathurella Dall, 1908: 289. *Albatross* 2799 [**Holotype, USNM 110604** (figured by Dall, 1919: 7, pl. 20, fig. 4)]. Turridae.

polyleptus, Pecten (*Pseudamusium*) Dall, 1908: 403, plate 10, figure 9. *Albatross* 4642 [**Holotype (1v), USNM 110586** (figured by Grau, 1959: 43–44, pl. 16, fig. 1)]. Dall recorded a left valve from *Albatross* 2781, "which probably belongs to the same species . . . ," but this tentative statement did not specify that this latter lot represented type material. Pectinidae.

polystephanus, Pleurotomella (*Pleurotomella*) Dall, 1908: 281. *Albatross* 2808 [**Holotype, USNM 96498** (figured by McLean in Keen 1971: fig. 1652)]. Turridae.

pompholyx, Arca (*Bathyarca*) *corpulenta* Smith **var.?** Dall, 1908: 398. *Albatross* 4390 [**Lectotype, USNM 110704**, selected by Oldroyd, as "Type" (1925: 47)]; *Albatross* 4396 [**paralectotype (2v), USNM 602596**]; *Albatross* 4709 [**paralectotype (2v), USNM 110705** (broken)]; *Albatross* 4721 [**1 paralectotype (1v), USNM 110706** (broken)]; *Albatross* 4740 [**not found**]. Arcidae.

pseustes, Cuspidaria (*Cardiomya*) Dall, 1908: 431–433. *Albatross* 3392 [**Holotype, USNM 122939** (figured by Keen, 1971: fig. 784; Bernard, 1974: 68–69, pl. 18. figs. 3, 4)]. Cuspidariidae.

radialis, Architectonica Dall, 1908: 327–328. *Albatross* 3392 [**Holotype, USNM 123037** (figured by Keen, 1971: fig. 432; Bieler, 1993: 164–167, fig. 133)]. Architectonicidae.

resina, Turris (*Surcula*) Dall, 1908: 264. *Albatross* 3354 [**Holotype, USNM 123103** (figured by Dall, 1919: 16, pl. 2, fig. 4)]. Turridae.

rhytida, Leda (*Leda*) Dall, 1908: 376–377. *Albatross* 3422 [**Holotype, USNM 122918**]. Nuculanidae.

rochebrunei, Rochefortia Dall, 1908: 414, plate 17, figure 5. *Albatross* 2778 [**Holotype (1v), USNM 110713**]. Leptonidae.

rotunda, Oocorys Dall, 1908: 322, plate 4, figure 9. *Albatross* 3360 [**Holotype, USNM 123029**]. Cassidae.

rotundus, Pecten (*Cyclopecten*) Dall, 1908: 404–405. *Albatross* 2799 [**2 syntypes (3v), USNM 110708** (cited as "holotype" by Grau, 1959: 33)]; *Albatross* 2784 [**1 syntype (1v), USNM 122744**]. A junior homonym (non Hagenow, 1842); renamed *Pecten* (*Cyclopecten*) *pernomus* Hertlein, 1935 (pages 320–321). Propeamussiidae.

rubidus, Clanculus (*Panocochlea*) Dall, 1908: 346–347, plate 8, figures 3, 4. *Albatross* 3355 [**Lectotype, USNM 122953**, selected by McLean in Keen, as "holotype" (1971: 945, caption to fig. 143)]; *Albatross* 3396 [**1 paralectotype, USNM 122954**]. Turbinidae.

saccoi, Borsonia (*Borsonella*) Dall, 1908: 277. *Albatross* 3354 [**Holotype, USNM 123105** (figured by McLean in Keen, 1971: fig. 1761)]. Turridae.

salaria, Tindaria Dall, 1908: 387–388. *Albatross* 4693 [**syntypes (5v), USNM 110695** (broken)]. Nuculanidae.

scethra, Natica (*Cochlis*) Dall, 1908: 333,

plate 11, figure 5. *Albatross* 3391 [**Lectotype, USNM 123048**, selected by Marincovich, as "holotype" (1977: 382–383, pl. 37, fig. 7), **1 paralectotype, USNM 678716; 2 paralectotypes, MCZ 27953**]. Naticidae.

sedillina, Mangilia Dall, 1908: 287, plate 13, figure 8. *Albatross* 3392 [**Lectotype, USNM 123116**, selected by McLean in Keen, as "holotype" (1971: 961, caption to fig. 1854); **1 paralectotype, USNM 887594; 1 paralectotype, MCZ 27909**]. Turridae.

serilla, Gemmula Dall, 1908: 269, plate 13, figure 6. *Albatross* 3392 [**Lectotype, USNM 123123**, selected by McLean in Keen, as "holotype" (1971: 958, caption to fig. 1674); **1 paralectotype, MCZ 27898**]. Turridae.

similaris, Lima (*Limatula*) Dall, 1908: 408. *Albatross* 2799 [**syntype, USNM 109034** (lost); **syntype, USNM 129319** (also lost!)]. Dall noted that "[o]nly one valve of this little shell was obtained, and that was unfortunately crushed by accident after the above diagnosis had been prepared. A second specimen, somewhat smaller, was obtained at [*Albatross*] 2983 . . ."; however, this latter specimen is lost (there is an empty vial in the tray for that lot). Keen (1971: 938, caption to fig. 218) stated that USNM 109034 was the "holotype" figured in her book; this is certainly incorrect, as that lot was crushed. Presumably it was USNM 129319 that was actually illustrated by Keen. Limidae.

smirna, Tindaria Dall, 1908: 389, plate 17, figures 6, 7. *Albatross* 3360 [**Holotype, USNM 122919**]. Nuculanidae.

smithii, Cetoconcha Dall, 1908: 431, plate 18, figure 10. *Albatross* 3415 [**Holotype, USNM 122943** (broken) (figured by Bernard, 1974: 85–86, pl. 26, fig. 5)]. Poromyidae.

stephanica, Seguenzia Dall, 1908: 325–326. *Albatross* 3431 [**Lectotype, USNM 123034**, selected by McLean in Keen, as "holotype" (1971: 945, caption to fig. 178); **1 paralectotype, MCZ 27932**]. Seguenziidae.

stimpsoni, Limopsis Dall, 1908: 396. *Albatross* 3392 [**Lectotype, USNM 122881**, selected by Keen, as "holotype" (1971: 936, caption to fig. 108)]; *Albatross* 3393 [**1 paralectotype, USNM 122882**]. Limopsidae.

strebeli, Polinices (*Euspira*) Dall, 1908: 338. *Albatross* 2783 ("type") [**Holotype, USNM 97093**]. Dall also recorded this species from *Albatross* 2777 and 2808, but such records are excluded from the type series [ICZN Article 72(b)(vi)]. Naticidae.

stylus, Terebra (*Perirhoe*?) Dall, 1908: 253. STEARNS, Panama Bay [**Holotype, USNM 32773** (figured by Keen, 1958: fig. 954; 1971: fig. 1546)]. Bratcher and Cernohorsky (1987: 52, 54, pl. 8, fig. 25b) questioned the type locality and synonymized this taxon with the Indo-Pacific *Terebra laevigata* Gray, 1834. Terebridae.

subequalis, Sphenia Dall, 1908: 422–423. *Albatross* 2779 [**Holotype (1v), USNM 110719**]. Myidae.

suteri, Limia [sic = *Lima*] (*Limatula*) Dall, 1908: 410. H. SUTER, Stewart Island, New Zealand, 18 fm [**1 syntype (1v), USNM 195290**; **syntypes (3v), USNM 679270**]. Limidae.

taeniolata, Nucula Dall, 1908: 368–369, plate 7, figures 3, 5. *Albatross* 3417 [**syntypes (6v), USNM 122897**; **syntypes (1 specimen + 2v), USNM 153319**; **syntypes (1 specimen + 1v), MCZ 27805**]. Nuculidae.

tanneri, Nucula Dall, 1908: 367. *Albatross* 2780 [**1 syntype, USNM 96243; 1 syntype, USNM 604255**; **syntypes (4v), MCZ 27813**]; *Albatross* 2781 [**syntypes (6v), USNM 96222**]; *Albatross* 2783 [**syntypes (1 specimen + 2v), USNM 96909**]; *Albatross* 2784 [**syntypes (1 specimen + 2v), USNM 122737**]; *Albatross* 2787 [**syntypes (2 specimens + 2v), USNM 96938**]. Nuculidae.

thalassoma, Glyphostoma Dall, 1908: 290. *Albatross* 3017 [**Holotype, USNM**

110612 (figured by by McLean in Keen, 1971: fig. 1784)]. Turridae.

thea, Tindaria Dall, 1908: 390. *Albatross* 4654 [**1 syntype, USNM 110577** (broken); **1 syntype, MCZ 27830**]. Nuculanidae.

truncata, Malletia Dall, 1908: 384–385, plate 17, figure 1. *Albatross* 3374 [**1 syntype, USNM 122906**]; *Albatross* 3361 [**1 syntype, USNM 122905**]; *Albatross* 3381 [**syntype (2v), USNM 122907** (broken)]. Malletiidae.

turbinum, Epitonium (*Sthenorhytis*) Dall, 1908: 317, plate 9, figures 5, 6, 8. *Albatross* 4642 [**Holotype, USNM 110568** (broken) (figured by Keen, 1971: fig. 665)]. Epitoniidae.

vaginatus, Polinices (*Euspira*) Dall, 1908: 336–337. *Albatross* 2778 [**6 syntypes, USNM 96231; 1 syntype, USNM 106873**]; *Albatross* 2779 [**1 syntype, USNM 97126; 2 syntypes, USNM 678711; 1 syntype, MCZ 27947**]; at Laredo Bay in the [Magellan] strait [**1 syntype, USNM 110658**]. Naticidae.

vexillata, Tritonoharpa Dall, 1908: 320, plate 8, figure 7. *Albatross* 4642 [**Holotype, USNM 110580** (figured by Keen, 1971: fig. 973)]. Transferred from Buccinidae to Cancellariidae by Beu and Maxwell (1987: 47, pl. 25, figs. a–g, j). Cancellariidae.

vicella, Gemmula Dall, 1908: 268–269, plate 14, figure 5. *Albatross* 3392 [**Holotype, USNM 123122** (figured by McLean in Keen, 1971: fig. 1867)]. Turridae.

vincula, Yoldia (*Katadesmia*) Dall, 1908: 379, plate 5, figure 5. *Albatross* 3360 [**syntypes (1 specimen + 2v), USNM 122903**; **1 syntype (2v), MCZ 27835** (broken)]; *Albatross* 3354 [**1 syntype (2v), USNM 122902**]; *Albatross* 3361 [**1 syntype (1v), USNM 122904**]. Nuculanidae.

xylona, Pleurotomella (*Gymnobela*) Dall, 1908: 280, plate 2, figure 3. *Albatross* 3413 [**Holotype, USNM 123111** (figured by McLean in Keen, 1971: fig. 1868)]. Turridae.

zonalis, Limopsis Dall, 1908: 393–394, plate 7, figures 6, 9. *Albatross* 3356 ("type") [**Holotype, USNM 122878**; **numerous paratypes (9 specimens + 4v), USNM 887595; 2 paratypes, SBMNH 34679** (ex USNM 122878)]. Dall also recorded this species from *Albatross* 3357, 3358, and 4630, but such records are excluded from the type series [ICZN Article 72(b)(vi)]. Limopsidae.

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GENERIC INDEX

Bivalvia

Xylophaga
mexicana
Yoldia (*Katadesmia*)
vincula
Yoldia (*Orthoyoldia*)
panamensis
Yoldia (*Yoldiella*)
chilenica
dicella
granula
indolens
infrequens
leonilda
mantana

Gastropoda

Acteon
panamensis
Acteon (*Microglyphis*)
estuarinus
mazatlanicus
Alectrion (*Hima*)
catallus
miser
Alectrion (*Tritia*)
exsarcus
goniopleura
Architectonica
radialis
Bathysciadium
pacificum
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diegensis
saccoi
Bullaria (*Leucophysema*)
morgana
Bursa (*Lampadopsis*)
calcipicta
Cancellaria (*Admete*)
californica
Cancellaria (*Merica*)
corbicula
microsoma
Cancellaria (*Narona*)
exopleura
Capulus
chilensis
Cavolina
occidentalis
Cerithioderma
pacifica
Clanculus (*Panocochlea*)
rubidus
Clathurella
orariana
panamella
plicatella
Clinura
monochorda
peruviana
Cocculina
agassizii
diomedae
nassa
Columbella (*Anachis*)
fusidens
Cylichnella (*Bullinella*)
inca
Cylichnella (*Cylichnium*)
atahualpa
pizarro
Daphnella (*Eubela*)
imparella
Daphnella (*Surculina*)
blanda
cortezi
Drillia
decenna
Epitonium (*Ferminoscala*)
brunneopictum
ferminianum
Epitonium (*Sthenorhytis*)
turbinum
Fusinus
fragillissimus
panamensis
Gemmula
benthima
eldorana
esuriens
herilda
pernodata
serilla
vicella
Glyphostoma
immaculata
thalassoma
Hipponix
delicata
Irenosyrinx
crebristriata
leonis
Leptothyra
panamensis
Leucosyrinx
clionella
erosina
pacifica
Liotia (*Arene*)
californica
pacis
Mangilia
cetolaca
encella
enora
genilda
movilla
sedillina

Murex (*Tritonalia*)
diomedaeus
Natica (*Cochlis*)
othello
scethra
Oocorys
elevata
rotunda
Petaloconchus
complicatus
Pleurotomella (*Gymnobela*)
altina
egregia
isogonia
xylona
Pleurotomella (*Phymorhynchus*)
clarinda
oceanica
Pleurotomella (*Pleurotomella*)
dinora
esilda
parella
polystephanus
Polinices (*Euspira*)
agujanus
constrictus
crawfordianus
litorinus
pardoanus
strebeli
vaginatus
Ptychatractus
californicus
Scaphander
cylindrellus
decapitatus
Scaphander (*Sabatina*)
planeticus
Seguenzia
occidentalis
stephanica
Solariella
equatorialis
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Stilifer (*Mucronalia*)
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Strombina
edentula
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stylus
Terebra (*Strioterebrum*)
balaenorum
bridgesi
lucana
panamensis
pedroana
Thais
nesiotes
Tritonoharpa
vexillata
Trophon (*Pascula*)
citricus
Troschelia (*Thalassoplanes*)
mörchii
Turris (*Surcula*)
arnilda
dolenta
dotella
fusinella
notilla
resina
Turritella
mariana
Volutopsius
amabilis

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Callistochiton
periconis
Ischnochiton
ophioderma
Lepidopleurus
abbreviatus
incongruus
opacus

Scaphopoda

Cadulus (*Gadila*)
peruvianus
Dentalium
panamense
peruvianum

APPENDIX: DATA FOR *ALBATROSS* STATIONS THAT REPRESENT TYPE LOCALITIES OF DALL (1908) SPECIES

Dall (1908: 446–476) provided data for stations 3353–3437 and 4567–4743; for the remaining stations, see *Albatross* (1903, 1906), Fassett (1904), and Townsend (1901). For all stations, I have added a generalized geographical description for the reader's convenience. For five stations (4339, 4353, 4382, 4407, and 4425), Townsend gave "bearings" (instead of latitude and longitude), which I converted into approximate geographical indications. My editorial additions should not be used for navigational purposes.

Station	Fathoms	Locality	Date
2772	31.5	52°16′00″S, 68°13′00″W Off Cabo Virgins, east entrance of Magellan Strait	January 17, 1888
2777	19.75	52°38′00″S, 70°10′30″W Magellan Strait, Chile	January 19, 1888
2778	61	53°1′00″S, 70°42′15″W Magellan Strait, Chile	January 23, 1888
2779	77.5	53°6′00″S, 70°40′30″W Magellan Strait, Chile	January 23, 1888
2780	369	53°1′00″S, 73°42′30″W Archipiélago de la Reina Adelaida, Chile	February 2, 1888
2781	348	51°52′00″S, 73°41′00″W Off W coast of Patagonia, Chile	February 4, 1888
2782	258	51°12′00″S, 74°13′30″W Off W coast of Patagonia, Chile	February 6, 1888
2783	122	51°2′30″S, 74°8′30″W Off W Coast of Patagonia, Chile	February 6, 1888
2784	194	48°41′00″S, 74°24′00″W Canal Messer, southern Chile	February 8, 1888
2785	449	48°9′00″S, 74°36′00″W Canal Messer, southern Chile	February 8, 1888
2787	61	46°47′30″S, 75°15′00″W Off Peninsula de Talteco, Chile	February 9, 1888
2792	401	0°37′00″S, 81°00′00″W Off Manta, Ecuador	March 2, 1888
2793	741	1°3′00″N, 80°15′00″W Off Punta Galera, Ecuador	March 3, 1888
2794	62	7°37′00″N, 78°46′30″W Golfo de Panama	March 5, 1888
2798	18	8°10′30″N, 78°50′30″W Golfo de Panama	March 5, 1888
2799	29.5	8°44′00″N, 79°9′00″W Golfo de Panama	March 6, 1888
2800	7	8°51′00″N, 79°31′30″W Golfo de Panama	March 30, 1888
2801	14	8°47′00″N, 79°29′30″W Golfo de Panama	March 30, 1888
2803	26	8°27′00″N, 79°35′00″W Golfo de Panama	March 30, 1888
2804	47	8°16′30″N, 79°37′45″W Golfo de Panama	March 30, 1888
2805	51.5	7°56′00″N, 79°41′30″W Golfo de Panama	March 30, 1888
2807	812	0°24′00″S, 89°06′00″W E of Isla San Cristóbal, Galápagos	April 4, 1888

Station	Fathoms	Locality	Date
2808	634	0°36′30″S, 89°19′00″W E of Isla San Cristóbal, Galápagos	April 4, 1888
2823	26.5	24°18′00″N, 110°22′00″W Bahia de La Paz, Baja California, Mexico (Gulf of California)	April 30, 1888
2830	66	23°33′00″N, 110°37′00″W W of Todos Santos, Baja California, Mexico	May 1, 1888
2834	48	26°14′00″N, 113°13′00″W SE of Punta Abreojos, Baja California, Mexico	May 3, 1888
2835	5.5	26°42′30″N, 113°34′15″W SE of Punta Abreojos, Baja California, Mexico	May 4, 1888
2839	414	33°8′00″N, 118°40′00″W NW of San Clemente Island, California, USA	May 8, 1888
2859	1,569	55°20′00″N, 136°20′00″W SW of Sitka, Alaska, USA	August 29, 1888
2919	984	32°17′00″N, 119°17′00″W SW of San Clemente Island, California, USA	January 17, 1889
2923	822	32°40′30″N, 117°31′30″W W of San Diego, California, USA	January 19, 1889
2925	339	32°32′30″N, 117°24′00″W W of San Diego, California, USA	January 19, 1889
2931	34	32°25′30″N, 117°16′45″W Off Los Coronados Islands, NW of Rosarito, Baja California, Mexico	January 26, 1889
2936	359	32°49′00″N, 117°27′30″W W of San Diego, California, USA	February 4, 1889
2973	68	34°19′30″N, 119°44′15″W SW of Santa Barbara, California, USA	February 11, 1889
2980	603	33°49′45″N, 119°24′30″W S of Anacapa Island, California, USA	February 12, 1889
2984	113	28°57′15″N, 118°15′45″W Off Guadalupe Island, Mexico	February 28, 1889
2996	112	24°30′15″N, 110°29′00″W Bahia de la Paz, Baja California, Mexico (Gulf of California)	March 16, 1889
3017	58	29°54′30″N, 113°01′00″W W of Cabo Lobos, Sonora, Mexico (Gulf of California)	March 24, 1889
3034	24	30°36′30″N, 114°27′45″W S of Punta Estrella, Baja California, Mexico (Gulf of California)	March 27, 1889
3074	887	47°22′00″N, 125°48′30″W W of Taholah, Olympic Peninsula, Washington, USA	June 29, 1889
3194	92	35°23′30″N, 121°2′30″W W of Morro Bay, California, USA	April 5, 1890

Station	Fathoms	Locality	Date
3346	786	45°30′00″N, 124°52′00″W W of Cape Meares, Oregon, USA	September 22, 1890
3354	322	7°9′45″N, 80°50′00″W S of Cabo Cambutal, Panama	February 23, 1891
3355	182	7°12′20″N, 80°55′00″W S of Cabo Cambutal, Panama	February 23, 1891
3356	546	7°9′30″N, 81°8′30″W SW of Cabo Cambutal, Panama	February 23, 1891
3357	782	6°35′00″N, 81°44′00″W S of Isla Jicarón, Panama	February 24, 1891
3358	555	6°30′00″N, 81°44′00″W S of Isla Jicarón, Panama	February 24, 1891
3360	1,672	6°17′00″N, 82°5′00″W SW of Isla Jicarón, Panama	February 24, 1891
3361	1,471	6°10′00″N, 83°6′00″W S of Punta Burica, Panama	February 25, 1891
3365	1,010	5°31′00″N, 86°31′00″W SW of Cabo Blanco, Costa Rica	February 27, 1891
3366	1,067	5°30′00″N, 86°45′00″W SW of Cabo Blanco, Costa Rica	February 27, 1891
3368	66	5°32′45″N, 86°54′30″W SW of Cabo Blanco, Costa Rica	February 28, 1891
3369	52	5°32′45″N, 86°55′20″W SW of Cabo Blanco, Costa Rica	February 28, 1891
3374	1,823	2°35′00″N, 83°53′00″W SW of Isla De Malpelo, Colombia	March 3, 1891
3376	1,132	3°9′00″N, 82°8′00″W SW of Isla de Malpelo, Colombia	March 4, 1891
3380	899	4°3′00″N, 81°31′00″W Off Isla de Malpelo, Colombia	March 5, 1891
3381	1,772	4°56′00″N, 80°52′30″W NE of Isla de Malpelo, Colombia	March 6, 1891
3382	1,793	6°21′00″N, 80°41′00″W Golfo de Panama	March 7, 1891
3387	127	7°40′00″N, 79°17′50″W Golfo de Panama	March 8, 1891
3389	210	7°16′45″N, 79°56′30″W Golfo de Panama	March 9, 1891
3391	153	7°33′40″N, 79°43′20″W Golfo de Panama	March 9, 1891
3392	1,270	7°5′30″N, 79°40′00″W Golfo de Panama	March 10, 1891

Station	Fathoms	Locality	Date
3393	1,020	7°15′00″N, 79°36′00″W Golfo de Panama	March 10, 1891
3394	511	7°21′00″N, 79°35′00″W Golfo de Panama	March 10, 1891
3395	730	7°30′36″N, 78°39′00″W Golfo de Panama	March 11, 1891
3396	259	7°32′00″N, 78°36′30″W Golfo de Panama	March 11, 1891
3397	85	7°33′00″N, 78°34′20″W Golfo de Panama	March 11, 1891
3398	1,573	1°7′00″N, 80°21′00″W NW of Punta Galera, Ecuador	March 23, 1891
3399	1,740	1°7′00″N, 81°4′00″W NW of Punta Galera, Ecuador	March 24, 1891
3404	385	1°3′00″S, 89°28′00″W S of Can Cristóbal, Galápagos	March 28, 1891
3407	885	0°4′00″S, 90°24′30″W N of Isla San Salvador, Galápagos	April 3, 1891
3413	1,360	2°34′00″N, 92°6′00″W NW of Isla Culpepper, Galápagos	April 5, 1891
3414	2,232	10°14′00″N, 96°28′00″W East Guatemala Basin (SW of Tehuantepec, Mexico)	April 8, 1891
3415	1,879	14°46′00″N, 98°40′00″W SE of Acapulco, Guerrero, Mexico	April 10, 1891
3417	493	16°32′00″N, 99°48′00″W SE of Acapulco, Guerrero, Mexico	April 11, 1891
3418	660	16°33′00″N, 99°52′30″W S of Acapulco, Guerrero, Mexico	April 11, 1891
3422	141	16°47′30″N, 99°59′30″W S of Acapulco, Guerrero, Mexico	April 12, 1891
3427	80	21°22′15″N, 106°25′00″W S of Islas Marias, Nayarit, Mexico	April 18, 1891
3431	995	23°59′00″N, 108°40′00″W NE of Punta Arena, Baja California, Mexico (Gulf of California)	April 20, 1891
3434	1,588	25°29′30″N, 109°48′00″W E of Isla Santa Cruz, Baja California, Mexico (Gulf of California)	April 21, 1891
3681	2,368	28°23′00″N, 126°57′00″W W of Isla Guadalupe, Mexico	August 27, 1891
3683	2,690	9°57′00″N, 137°47′00″W Clipperton Fracture Zone, mid-Pacific	September 5, 1891
3684	2,463	0°50′00″N, 137°54′00″W S of Clipperton Fracture Zone, mid-Pacific	September 10, 1891

Station	Fathoms	Locality	Date
4339	287–369	SW of Point Loma, San Diego, California, USA	March 10, 1904
4353	628–640	SW of Point Loma, San Diego, California, USA	March 14, 1904
4382	642–666	SW of North Island, Coronado, San Diego, California, USA	March 18, 1904
4390	1,350–2,182	33°2′15″N, 120°42′00″W W of San Nicolas Island, California, USA	March 28, 1904
4396	2,228	33°1′35″N, 121°32′—″W W of San Nicolas Island, California, USA	March 31, 1904
4407	478–600	SE of Santa Catalina Island, California, USA	April 9, 1904
4425	1,084–1,100	NE of San Nicolas Island, California, USA	April 13, 1904
4630	556	6°53′—″N, 81°42′30″W S of Isla Jicarón, Panama	November 3, 1904
4641	633	1°34′24″S, 89°30′12″W SE of Isla Espanola, Galápagos	November 7, 1904
4642	300	1°30′30″S, 89°35′—″W SE of Isla Espanola, Calápagos	November 7, 1904
4643	100	1°28′42″S, 89°48′30″W S of Isla Espanola, Galápagos	November 7, 1904
4647	2,005	4°33′—″S, 87°42′30″W SE of Galápagos	November 9, 1904
4649	2,235	5°17′–″S, 85°19′30″W SE of Galápagos	November 10, 1904
4654	1,036	5°46′—″S, 81°31′54″W W of Punta Aguja, Peru	November 12, 1904
4656	2,222	6°54′36″S, 83°34′18″W SW of Chiclayo, Peru	November 13, 1904
4658	2,370	8°29′30″S, 85°35′36″W W of Trujillo, Peru	November 14, 1904
4672	2,845	13°11′36″S, 78°18′18″W SW of Lima, Peru	November 21, 1904
4685	2,205	21°36′12″S, 94°56′—″W Peru Basin	December 10, 1904
4693	1,142	26°30′6″S, 105°45′12″W SW of Isla Sala y Gómez	December 14, 1904
4709	2,035	10°15′12″S, 95°40′48″W Peru Basin	December 30, 1904
4721	2,084	8°7′30″S, 104°10′30″W E of East Pacific Ridge	January 15, 1905
4732	2,012	16°32′30″W, 119°59′—″W W of East Pacific Ridge	January 21, 1905
4740	2,422	9°2′6″S, 123°20′6″W W of East Pacific Ridge	February 11, 1905