

Generic Units in the Heteropoda

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THIS IS THE THIRD in a series of three papers written as advance treatments for gastropod groups I am revising for the Treatise on Invertebrate Paleontology. These advance synopses have served to validate certain new names and type designations, to provide an opportunity for references to be given, and to enable other workers to criticize the revisions before their final publication in the Treatise.

The Heteropoda have been a particularly difficult group to review. Some of the literature has been hard or impossible to obtain. As well, this superfamily was not as completely covered by THIELE (1929) or by WENZ (1941) as were some of the other gastropod groups, and much time had to be spent in canvassing for generic names that pertain to the Atlantacea. The Heteropoda is a difficult group to study, as some of the forms seem to lack diagnostic characters; early authors often provided more confusion than they did enlightenment. Fortunately, TESCH (1949) has published a good review of the species which facilitated the present task, but he did not review the genera nor indicate their type species.

It is my intention here to assemble in compact form the data concerning the generic and familial units and to interpret the type species following the synonymies of TESCH (1949).

I have omitted mention of some genera that have been incorrectly assigned to this group from time to time, such as two genera apparently not mollusks at all (*Timoriensia* and *Monophora* of QUOY & GAIMARD) and various names that apply rather to larval prosobranchs, to pteropods, or to Paleozoic archaeogastropods.

CONVENTIONS AND ABBREVIATIONS

The conventions and abbreviations used here are, for the most part, those used in the Treatise on Invertebrate Paleontology.

The name of the type species is set off by an asterisk and square brackets ([*]); the form of type designation is then indicated by the abbreviations listed below.

The work where the associated taxon was named or subsequent designation made is indicated by a date and by a letter (if present). The numbers following such dates refer to the pages or plates in the work where the name or designation first appears. These works are listed in the bibliography in all cases.

If the name of the author of a species is not given, it is to be assumed that the species was first described by the author of the associated genus and in the same work. The type species are listed first as they were designated—originally or subsequently—with the exception that abbreviations are filled out and the names of the authors of the species have been added where they were lacking. This entry is often followed by the original combination of the species and by earlier synonyms.

Abbreviations are as follows:

(?) (before a generic name)	- position questioned
=	- synonym
auctt. (<i>auctores</i>)	- of authors
err. (<i>error</i>)	- error
ex	- from
in synon.	- a generic name proposed in the synonymy of another
M	- type fixed by monotypy
MS	- the manuscript of
nom. correct. (<i>nomen correctum</i>)	- a name with an intentionally altered spelling of the sort allowed under the ICZN rules
nom. nud. (<i>nomen nudum</i>)	- a name which, as originally published, fails to meet the requirements of the ICZN rules, and has no status in nomenclature
nom. nov. (<i>nomen novum</i>)	- a new name
nom. null. (<i>nomen nullum</i>)	- spelling error
(<i>nomen translatum</i>)	- a name derived by valid emendation of a previously published name as the re-
nom. transl.	

- sult of transfer from one taxonomic category to another within the "family-level"
- nom. van.* (*nomen vanum*) - an invalid emendation, having no status in nomenclature
- non* - not of
- pro* - for
- OD - type fixed by original designation
- SD - type fixed by subsequent designation

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Superfamily

- ATLANTACEA WIEGMANN & RUTHE, 1832: 518,
nom. transl. PHILIPPI, 1853: 282 & 284, *ex* Atlantidae
- = Carinariacea REEVE, 1842: 74,
nom. correct. TROSCHER, 1856: 42, *ex* Carinariana
- = Pterotracheacea GRAY, 1840: 148,
nom. transl. KEFERSTEIN, 1863: 850, *ex* Pterotracheidae
- = Firolacea WIEGMANN & RUTHE, 1832: 518,
nom. transl. TROSCHER, 1856: 43, *ex* Firolidae

- Family ATLANTIDAE WIEGMANN & RUTHE, 1832: 518,
ex RANG, 1829: 123 (vernacular)

- Atlanta* LESUEUR, 1817c: 390 [**A. peronii*; SD GRAY, 1847: 149, no. 175]

- = *Allanta* D'ORBIGNY, 1834: pl. 12 (*nom. null.*)
- = *Atalanta* KNOCKER, 1869: 619 (*nom. null.*)
- = *Atlantis* (ANON.), 1819: col. 41 (*nom. null.*)
- = *Atlants* CARPENTER, 1861: 241 (*nom. null.*)
- = *Atlantidea* PILSBRY, 1922: 314 [**Atlanta rotundata* GABB, 1873: 201; SD WOODRING, 1928: 133]
- = *Steira* ESCHSCHOLTZ, 1825: col. 735 [**S. lamanoni*; M]

- Bellerophina* D'ORBIGNY, 1843a: 466 & 1843b: 410 & pl. 236 [**B. vibrayei*; M]

- = *Bellerophorina* GRAY, 1847: 164, no. 338 (*nom. null.*)

- Eoatlanta* COSSMANN, 1889: 297 & 380 [**Cyclostoma spiruloides* LAMARCK, 1804: 114; OD]

- Oxygyrus* BENSON, 1835: 173 [**O. inflatus*; M (= *Atlanta keraudrenii* LESUEUR, 1817c: 391)]

- = *Oxygyrus* SIMROTH, 1907: 1044 (*nom. null.*)

- = *Helicophlegma* D'ORBIGNY, 1835: 139 & 168 [**Atlanta keraudrenii* LESUEUR, 1817c; M]

- = *Helicoplegma* GRAY, 1840: 147 (*nom. null.*)

- = *Ladas* CANTRAINE, 1841: 37 [**L. keraudrenii* (LESUEUR) (= *Atlanta keraudrenii* LESUEUR, 1817c); M]

- Protatlanta* TESCH, 1908: 3 & 8 [**Atlanta lamanonii* SOULEYET, 1852: 371, *non Atlanta lamanoni* (ESCHSCHOLTZ, 1825: col. 735) (= *Atlanta souleyeti* SMITH, 1888: 43 [*nom. nov.*]); OD]

- = *Protoatlanta* WENZ, 1941: 1015 (*nom. null.*)

- Family CARINARIIDAE REEVE, 1842: 74,
nom. correct. TROSCHER, 1856: 42 (as Carinari-
 acea), *ex* Carinariana,
nom. transl. TRYON, 1883: 7 & 349, *ex* Carinari-
 acea

- Carinaria* LAMARCK, 1801: 98 [**C. vitrea* (GMELIN) (= *Argonauta vitreus* GMELIN, 1791: 3368, no. 317-2; = *Patella cristata* LINNAEUS, 1767: 1260, no. 768); M]

- = *Carinaire*, *auctt.* (*nom. null.*)

- = *Carinaires*, *auctt.* (*nom. null.*)

- = *Carinarius* MONTFORT, 1810: 2 (*nom. van.*)

- = (?) *Campylonaus* BENSON, 1835: 176 (*nom. nud.*) (*non* GRAY, 1847: 149, no. 179 [Pteropoda])

- = *Tithyonia* TIBERI, 1880: 46, *ex* CAVOLINI MS (in synon.)

- Cardiapoda* D'ORBIGNY, 1835: 139 & 154 [**C. pedunculata*; SD GRAY, 1847: 164, no. 334 (= *Pterotrachea placenta* LESSON, 1830: 253)]

- = *Cardiapus* D'ORBIGNY, 1842: 19 & 1846: 722 [Index] (*nom. null.*)
- = *Cardiophora* "D'ORBIGNY" SCUDDER, 1882: 60 (*nom. null.*)
- = *Cardiopoda* AGASSIZ, 1846: 65 (*nom. van.*)
- = *Carinairoidea* SOULEYET, 1852: 351 [**C. placenta* (LESSON) (= *Pterotrachea placenta* LESSON, 1830); SD herein (first on list of two)]
- = *Carinaroida* SMITH, 1888: 25 (*nom. null.*)
- = *Carinaroides* DESHAYES, 1853: 61 (*nom. null.*)
- Pterosoma* LESSON, 1827 a: 414 & 1827 b: 282 [**P. plana*; M] (see CROSSE [1897])
- = *Aloysia* ISSEL, 1907: 174 [**A. phyllosoma*; M (= *Pterosoma plana* LESSON, 1827 a & 1827 b)]
- Family PTEROTRACHEIDAE GRAY, 1840: 148
- = *Firolidae* WIEGMANN & RUTHE, 1832: 518, ex RANG, 1829: 120 (vernacular)
- Pterotrachea* FORSKÅL, 1775: 117 [**P. coronata*; SD GRAY, 1847: 163, no. 332]
- = *Pterotrachaea* CUVIER, 1817: 31 (*nom. null.*)
- = *Pterotrachia* NORMAN, 1888: 8, lines 183 - 184 (*nom. null.*)
- = *Anops* D'ORBIGNY, 1835: 139 & 149 (*non* BELL, 1833: 99) [**Firola peronii* D'ORBIGNY, 1834: pl.10, *non Pterotrachea peronii* LAMARCK, 1816: 13; M]
- = *Eupterotrachea* BONNEVIE, 1920: 11 [**E. hippocampus* (PHILIPPI) (= "*Pterotrachaea*" *hippocampus* PHILIPPI, 1836: 242); SD herein (first on list of three)]
- = *Euryops* TESCH, 1906: 83 & 88 (*non* COPE, 1884: 33) [**Pterotrachea* (*E.*) *mutabilis*; SD herein (first on list of three) (= "*Pterotrachaea*" *hippocampus* PHILIPPI, 1836)]
- = *Euryopsis* BONNEVIE, 1920: 8 (*nom. null.*)
- = *Firola* BRUGUIÈRE, 1791: pl. 88 (genus without species) Original list provided by LESUEUR, 1817a: 6 - 7. [**F. mutica* LESUEUR, 1817 a: 6; SD herein (first on list of six)]
- = *Firole*, *auctt.* (*nom. null.*)
- = *Heterodens* BONNEVIE, 1920: 10 [**H. gegenbauri* (VAYSSIÈRE) (= *Firola gegenbauri* VAYSSIÈRE, 1904: 39); M (= *Pterotrachea scutata* GEGENBAUR, 1855: 185)]
- = *Hypterus* RAFINESQUE, 1814: 29 [**H. erythrogaster*; SD herein (second on list of two) (= *Pterotrachea coronata* FORSKÅL, 1775: 117)]
- = *Hyptere* GRAY, 1847: 163, no. 332 (*nom. null.*)
- = *Hypopterus* PHILIPPI, 1853: 284 (*nom. van.*)
- = *Pterophora* CHIAJE, 1825: 197, ex CAULINI (= *CAVOLINI*) MS (in *synon.*)
- Firoloida* LESUEUR, 1817 b: 37 [**"Firolaide desmarestiana"*; SD GRAY, 1847: 163, no. 332 (= *F. demarestia* LESUEUR, 1817 b)]
- = *Firoloida* BINNEY, 1863: 558 (*nom. null.*)
- = *Firolaide* GRAY, 1847: 163, no. 332 (*nom. null.*)
- = *Firoloida* ADAMS & ADAMS, 1853: 95 (*nom. null.*)
- = *Firoloides* DESHAYES, 1830: 130 (*nom. null.*)
- = *Cerophora* D'ORBIGNY, 1835: 139 & 151 [**C. lesueurii* (D'ORBIGNY) (= *Firola lesueurii* D'ORBIGNY, 1834: pl. 10); SD GRAY, 1847: 164, no. 333 (= *Firoloida demarestia* LESUEUR, 1817 b)]
- = *Ceratophora* GISTEL, 1848: viii (*non* GRAY, [1833 - 1835]: pl. 68) (*nom. null.*)
- = *Ceropleura* COSSMANN, 1895: 133 (*nom. null.*)
- = *Averna* GISTEL, 1848: viii (*nom. van.*)
- = *Demarestia* GRIFFITH & PIDGEON, 1834: 51 (*nom. nud., err. pro Firoloida demarestia* LESUEUR, 1817 b)
- = *Firolella* TROSCHER, 1855: 300, 305, & 311 [**F. gracilis*; SD herein (first on list of two) (= *Firoloida demarestia* LESUEUR, 1817 b)]

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