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CATALOGUE OF THE RECENT SPECIES OF THE CLASS BRACHIOPODA.

BY W. H. DALL, U. S. COAST SURVEY.

The following catalogue contains all the species known in a recent state up to the date of writing. The synonymy does not profess to be complete, but only sufficiently so to indicate the history of each species approximately, with a reference whenever possible to at least one good figure.

It is probable that some of the species, especially of the genera *Lingula* and *Discinisca*, may be reduced to the rank of synonyms by a careful comparison of types. I have thought it best to leave this work, however, to some one who may have the opportunity of comparing the specimens themselves. I feel confident, also, that the number of species of *Kraussina* has been exaggerated. With regard to the other groups, they appear to have been sufficiently reduced, and the species here enumerated appear to be well defined. Most of them I have been able to examine critically.

While deprecating the multiplication of specific names on the one hand, on the other the practice, miscalled conservatism, which leads to the confounding of allied but distinct forms, from carelessness in comparison or the want of material for critical examination, cannot be too strongly condemned. Such a course leads to the destruction of that critical exactness which is the basis of all science, and only furthers the convenience of the careless or indolent investigator, at the sacrifice of accuracy, and the great increase of labor for the more careful and painstaking student.

Those who may be led to examine this catalogue carefully will trace the evil effect of both courses in the synonymy of many of the species, and, while absolute accuracy seems unattainable, I may be permitted to hope that herein at least a step has been made in that direction. Great care has been taken with the localities attributed to the several species, and they are believed to be, in the main, correct.

I am under obligations to Mr. George W. Tryon, Jr., for assistance in completing the synonymy.

CLASS BRACHIOPODA, CUVIER.

ORDER ARTHROPOMATA, OWEN.

Arthropomata, Owen, Encyc. Brit. Ed. viii. xv. art. *Mollusca*, p. 336. 1858.

Brachiopoda, valves articulées, Deshayes, An. s. Vert. Ed. ii. vii. p. 309. 1836.

Palliobranchiata, testa cardine instructa, Van der Hoeven, Handb. der Zool. p. 692. 1850.

Apygia, Bronn. Klass. Ordn. Thierr. iii. 1st abth. p. 301. 1862.

Articulata, Huxley, Lect. Class. 1864. Mtr. Class. An. p. 116. 1869.

Family TEREBRATULIDÆ, Dall.

Terebratulidæ, Dall, Bull. Mus. Comp. Zool. iii. No. 1, p. 3. May, 1871.

Subfamily TEREBRATULINÆ, Dall.

Terebratulinae, Dall, Am. Journ. Conch. vi. p. 101. 1870.

Genus TEREBRATULA, Auct. ex Llhwyd.

Terebratula, Llhwyd, Lith. Brit. Ichn. 1699. Lam. Prod. 1799. Dall, Am. Journ. Conch. vi. p. 101. 1870.

Type *Terebratula perovalis*, Sby. Lam.

1. TEREBRATULA CUBENSIS, Pourtalès.

T. cubensis, Pourt. Bull. Mus. Comp. Zool. i. No. 7. p. 109. 1867. Dall, *loc. cit.* iii. No. 1, p. 3, pl. i. f. 2, 8-16. 1871.

T. vitrea, var. Davidson, Mon. It. Tert. Brach. i. p. 9. 1870. (Not of Born.)

Cuba, Florida reefs.

2. TEREBRATULA DAVIDSONI, A. Adams.

T. Davidsoni, A. Ad. P. Z. S. p. 314, pl. xix. f. 30. 1867.

T. minor Dav. P. Z. S. p. 302, pl. xxx. figs. 10-12. 1871.

Japan.

3. TEREBRATULA MINOR, Phil. & Suess.

T. vitrea, var. *minor*, Phil. Moll. Sic. i. 1836.

T. affinis, Calcara. 1845.

T. minor, Dav. An. Mag. Nat. p. 35. 1861. Dall. *loc. cit.* vi. p. 104. 1870.

Mediterranean.

4. TEREBRATULA SPHÆROIDEA, Philippi.

T. sphæroidea, Phil. Dav. P. Z. S. p. 302. 1871.

Coast of Portugal.

5. **TEREBRATULA UVA**, Broderip.
T. uva, Brod. P. Z. S. p. 124, Sby. Thes. Conch. i. p. 353,
 pl. 70, fig. 53-55, Gray. Cat. B. M. p. 18, Dall, *loc. cit.* p.
 104. 1833.
Gulf of Tehuantepec, W. Am.
6. **TEREBRATULA VITREA**, Born.
Anomia vitrea, Born. Mus. Vind. p. 119. 1780. Gmel. S.
 N. 3347.
Anomia terebratula, Dillwyn, Cat. p. 294.
Gryphus vitrea, Meg. v. Muhlf. Berl. Mus. p. 64. 1811.
Terebratula vitrea, Sby. Thes. Conch. i. p. 353, pl. 70, figs.
 56-59. Dall, *loc. cit.* p. 101, figs. 1-2. Dall, Bull. Mus.
 Comp. Zool. iii. pl. 1, f. 1.
Mediterranean.
- DOUBTFUL SPECIES.
- Terebratula transversa*, Gld. Proc. B. S. N. H. vii. p. 323.
 Sept. 1860.
Japan.
- Terebratula Malvinæ*, D'Orb. Voy. Am. Mer. V. p. 674,
 No. 779, ix. pl. 85, f. 27, 29.
Falkland Islands.
- Genus **TEREBRATULINA**, D'Orbigny.
- Terebratulina*, D'Orb. Comptes Rendus, xxv. p. 268. 1847.
Agulhasia? King, An. Mag. N. H. Ser. iv. vii. p. 109. 1871.
1. **TEREBRATULINA CAILLETI**, Crosse.
T. cailleti, Crosse, Journ. de Conchyl. p. 27, pl. i. figs. 1-3.
 1865. Dall, Bull. Mus. Comp. Zool. iii. i. p. 10. 1871.
 ? *T. Michellotina*, Dav. Mon. It. Tert. Brach. i. p. 14. 1870.
 (Fossil.)
Florida, Tortugas, West Indies.
2. **TEREBRATULINA CANCELLATA**, Koch.
T. cancellata, Koch, in Kust. Conchyl. Cab. v. vii. i. pl. 26,
 figs. 11-13. Sby. Thes. Conch. i. p. 358, pl. 71, figs. 93-95.
West Australia.
3. **TEREBRATULINA CAPUT-SERPENTIS**, Lin.
Anomia caput-serpentis, Lin. Syst. Nat. Ed. xii. 1153. 1767.
Terebratulina caput-serpentis, D'Orb. Ann. Sci. Nat. viii.
 67, pl. vii. f. 7, 8, 17. 1848. (Type.)
T. cornea, D'Orb. 1848. l. c.

- Anomia pubescens*, Lin. S. N. l. c.
T. pubescens, Retz, N. Gen. 15. 1788.
Terebratula caput-serpentis, Sby. Thes. i. p. 343, pl. 68, figs. 1-4; pl. 72, fig. 116.
T. aurita, Fleming, Phil. Zool.
T. costata, Lowe, Zool. Journ. 1825.
T. striata, Leach, Brit. Moll. 1852.
T. Gervillei, S. Wood, An. Mag. Nat. Hist. v. p. 253.
T. marginata, Risso, Ewr. Mer. 1826.
T. quadrata, Risso, l. c.
Anomia retusa, Linn, Syst. Nat. xii. p. 1151. 1767.
Delthyris spatula, Menke, Syn. Ed. 2, 96, etc. etc.
Mediterranean and North European Seas.
4. TEREBRATULINA DAVIDSONI, King.
Agulhasia Davidsoni, King, Ann. Mag. Nat. Hist. 4th ser. vii. p. 111, Feb. 1871, pl. xi. figs. 1-8 (? test, jun.)
Agulhas Bank, South Africa.
5. TEREBRATULINA JAPONICA, Sby.
T. Japonica, Sby. Thes. Conch. i. p. 344, pl. 66, figs. 7-8. 1847.
T. abyssicola, Ad. & Rve. Moll. Samarang, p. 72, pl. xxi. fig. 5. 1850.
T. Cumingi, Davidson, P. Z. S. p. 79, pl. xiv. figs. 17-19. 1852.
T. angusta, Ad. & Rve. Voy. Sam. p. 71, pl. 21, fig. 2. 1850.
T. caput-serpentis, Dav. P. Z. S. p. 302. 1871. (not Linné.)
Gulf of Korea; China Seas; Japan.
6. TEREBRATULINA RADIATA, Rve.
T. radiata, Rve. Conch. Icon. pl. iii. fig. 7, a, b. 1861.
Gulf of Korea.
7. TEREBRATULINA SEPTENTRIONALIS, Couthouy.
T. septentrionalis, Couthouy, Bost. Soc. Nat. Hist. Journ. vol. ii. p. 55. 1838. Sby. Thes. i. p. 344, pl. 68, figs. 7-8. Binney's, Gould's Inv. Mass. p. 208. 1869.
Northeast Coast of America.
8. TEREBRATULINA UNGUICULA, Carpenter.
Terebratula unguicula, Cpr. P. Z. S. Feb. 14, 1865, p. 201, figs. 1-4. Cooper, Geogr. Cat. Cal. Moll. p. 3.
Northwest Coast of America from the Aleutian Islands to San Diego, Cal.

Genus **WALDHEIMIA**, King.

Waldheimia, King, Perm. Foss. p. 81, 1850, and the majority of authors.

Macandrevia, King, Proc. Dubl. Un. Zool. Bot. As. p. 261. 1859.

Eudesia, King, Perm. Foss. p. 144. 1850.

Gwynia? King, Proc. Dubl. Un. Zool. Bot. As. i. p. 258. 1859 (testa junior).

1. **WALDHEIMIA CRANIUM**, Müller.

Anomia cranium, Gmelin, S. N. 3347.

Anomia terebratula, Lin. S. N. 1767.

Terebratula cranium, Müller, Prodr. Zool. Dan. p. 209.

Rve. Conch. Ic. pl. iii. f. 6. Jeffreys, Brit. Conch. ii. p. 11, v. p. 163. Rve. Journ. de Conchyl. p. 123. 1861.

Terebratula vitrea, Fleming (not Born).

Terebratula subvitrea, Leach, teste Rve.

Terebratula glabra, Leach; Brit. Moll. p. 359, pl. xiv. f. 3-5.

Terebratula plicata, Philipps, Retz. Diss. 1788.

Macandrevia cranium, King (type), Proc. Dubl. Un. As.

? *Terebratula (Argiope) capsula*, Jeffreys.

? *Gwynia capsula*, King, Proc. Dub. Un. As. i. p. 258, f. 1-5. 1859. Rve. Conch. Ic. pl. x. f. 39 (testa junior).

Waldheimia cranium, Gray, B. M. Cat. p. 58. Dall, Am. Journ. Conch. vi. p. 110. 1870.

Scandinavian and North British Seas.

2. **WALDHEIMIA FLAVESCENS**, Valenciennes.

Terebratula flavescens, Val. apud Lam. 1819. An. s. Vert. v. vii. p. 330. Rve. Conch. Icon. pl. i. and ii. a, b. 1861.

T. dentata, Val. Lam. An. s. Vert. l. c. 1836.

T. australis, Q. & G. Voy. Astrol. pl. 85, fig. 1-5. 1832.

T. recurva, Q. & G. l. c.

Waldheimia australis, King (type), Mon. Perm. Fos. p. 145.

Davidson, Intr. Brach. p. 65, pl. vi. f. 9, 10.

Waldheimia flavescens, Dall, Am. Journ. Conch. vi. p. 108, fig. 5-9. 1870.

Australia.

3. **WALDHEIMIA FLORIDANA**, Pourtalès.

Waldheimia Floridana, Pourtalès, Bull. Mus. Comp. Zool. i. No. 7, p. 127. 1868. Dall, Am. Conch. vi. p. 112. 1870.

Bull. Mus. Comp. Zool. iii. No. 1, p. 12, pl. i. f. 3, pl. ii. f.

1-3. 1871.

- Terebratula septata*, Jeffreys, Proc. Roy. Soc. 121, p. 112
(not Philippi, Moll. Sicilia, ii. p. 68. 1844.)
Terebratula septigera, Jeffreys (not Lovèn).
Terebratula peloritana, var. Jeffreys (not Sequenza).
Florida Reefs.
4. WALDHEIMIA GRAYI, Davidson.
Waldheimia Grayii, Davidson, P. Z. S. p. 76, pl. xiv. f. 1-3.
1852. P. Z. S. p. 304, pl. xxxi. figs. 7-8. 1871.
(Not *W. Grayi* of Cpr. and Cala. authors.)
Japan.
5. WALDHEIMIA LENTICULARIS, Deshayes.
T. lenticularis, Desh. Mag. Zool. pl. xli. 1841. Sby. Thes.
i. p. 360, pl. 72, figs. 108-110.
Waldheimia lenticularis, Gray, B. M. Cat. 58. Dall, l. c.
p. 112.
Straits of Fauveau, New Zealand.
6. WALDHEIMIA PICTA, Chemn.
Anomia picta, Chemn. xi. f. 2011, 2012.
Anomia cranium, var. Dillwyn, Cat. p. 295.
Anomia rubra, Wood, Ind. Suppl. pl. ii. fig. 4.
T. picta, Sby. Thes. Conch. i. p. 351, pl. 70, figs. 43-44.
W. picta, Gray, B. M. Cat. p. 59. Dav. P. Z. S. p. 304, pl.
xxxii. fig. 10. 1871. Dall, l. c. p. 112.
Japan; Java.
7. WALDHEIMIA RAPHAELIS, Dall.
W. Raphaelis, Dall, Am. Journ. Conch. vi. p. 111, pl. vii.
figs. a-d. 1870. Dav. P. Z. S. p. 302, pl. xxxii. fig. 9.
Japan.
8. WALDHEIMIA SEPTIGERA, Lovèn.
W. septigera, Lovèn, Index Moll. Scand. p. 29. 1846. Dav.
Ann. Nat. Hist. pl. x. fig. 1. 1855. Dall, Bull. Mus.
Comp. Zool. iii. pl. i. fig. 4, pl. ii. fig. 9 (not of A. Adams).
W. septata, Jeffreys (not *Terebratella septata*, Phil.)
W. Floridana, Jeffreys (not Pourtalès).
Scandinavian Seas.
9. WALDHEIMIA VENOSA, Solander.
Anomia venosa, Solander, MSS. Mus. Banks, Dixon's Voy.
p. 355, pl. xi. 1788. Dav. Ann. Mag. Nat. Hist. xx. pp.
81-83.
Terebratula globosa, Lam. An. s. Vert. v. vii. p. 330. 1819
Reeve, Conch. Icon. pl. ii. fig. 3 a-c, pl. 6, fig. 3 d-e.

- Terebratula Californica*, Sby. non Koch.
Waldheimia dilatata, Lam. Reeve, Conch. Ic. pl. ii. fig. 2, *b*, *c*.
Terebratula Gaudichaudi, Blainville, Dict. Sci. Nat. 1824.
Waldheimia physema, Val. Reeve, Conch. Ic. pl. vi. fig. 25 *a-c*.
Terebratula eximia, Philippi, teste Reeve.
Terebratula Kochii, Kuster, Conchyl. Cab. viii.
Terebratula Fontaineana, D'Orbigny, Voy. Am. Mer. v. p. 675, No. 782, ix. pl. 85, fig. 30-31.
Waldheimia venosa, Dav. An. Mag. Nat. Hist. xx. pp. 81-3.
 Dall, Am. Journ. Conch. vi. p. 109. 1870.

Tierra del Fuego.

Subfamily MAGASINÆ, Dall.

- Magasinæ*, Dall, Am. Journ. Conch. vi. p. 114. 1870.
Magasina, Gray, B. M. Cat. p. 85. 1853.

Genus TEREBRATELLA, D'Orb.

- Terebratella*, D'Orb. Pal. Fran. Ter. Cret. iv. p. 110. 1847.
Delthyris, Menke, Syn., Ed. ii. p. 96. 1830. (Not Dalman.)
Ismenia, King, Perm. Fos. p. 245. 1850. (Not King, l. c. p. 81.)

1. TEREBRATELLA BOUCHARDII, Davidson.

- T. Bouchardii*, Dav. P. Z. S. p. 77, pl. xiv. fig. 4-6. 1852.
 Gray, B. M. Cat. p. 88. Dall, l. c. vi. p. 123.

Habitat?

2. TEREBRATELLA COREANICA, Ad. & Rve.

- Terebratula Coreanica*, Ad. & Rve. Voy. Sam. p. 71, pl. xxi. fig. 3. 1850. Rve. Conch. Icon. vii. f. 28, *a*, *b*.
Terebratula miniata, Gld. Proc. B. S. N. H. p. 323. 1861.
Terebratella Coreanica, Dav. An. Mag. N. H. p. 367. 1852.
 Dall, Am. Journ. Conch. vi. p. 207. 1870. Dav. P. Z. S. p. 304, pl. xxxi. fig. 4-5. 1871.

Japanese and Korean Seas.

3. TEREBRATELLA CRUENTA, Dillwyn.

- Anomia cruenta*, Dillwyn, Syn. p. 295. 1817.
Terebratula rubra, Sby. Thes. Conch. i. pl. lxxviii. f. 9-11.
Terebratula zelandica, Desh. Mag. Zool. pl. 42. 1841.
 Dav. An. Nat. Hist. p. 367. 1852. Sby. Thes. i. pl. 72, figs. 111-113.

Terebratula sanguinea, Leach, Zool. Misc. pl. 76. Lam.
An. s. Vert. vi. p. 243.

Terebratella cruenta, Gray, B. M. Cat. p. 89. Dall. Am.
Journ. Conch. vi. p. 117. 1870.

New Zealand.

4. TEREBRATELLA DORSATA, Gmelin.

Anomia striata magellanica, Chem. Conch. Cab. vi. viii. p.
101, pl. 78, fig. 710, 711.

Terebratula dorsata, Lam. An. s. Vert. v. vii. p. 331. 1819.
Sby. Thes. i. p. 346, pl. 68, f. 15-17.

Anomia dorsata, Gmelin, S. N. 3348. 1788.

Delthyris dorsata, Menke, Syn. Ed. 2, p. 96. 1830.

Terebratula chilensis, Brod. P. Z. S. p. 134. 1836.

Terebratula magellanica, Reeve, Conch. Icon. pl. v. fig.
21 a-d.

Terebratula bilobata, Blainville, Dict. Sci. Nat.

Terebratula pectinata, Blainville, l. c.

Terebratella dorsata, Dall, Am. Journ. Conch. vi. p. 116.
1870. (Type of D'Orb.)

Terebratella Sowerbyi, King, Zool. Journ. v. p. 833.

Coast of Chili to Magellan Straits.

5. TEREBRATELLA FRONTALIS, Middendorf.

Terebratula frontalis, Midd. Malac. Ross. iii. p. 2. Sib.
Reise, Bd. 2, p. 241, pl. 18, fig. 9-14.

Terebratella frontalis, Dall, Am. Journ. Conch. vi. p. 123.
1870.

South Coast of the Ochotsk Sea.

6. TEREBRATELLA MARIÆ, A. Adams.

T. mariæ, A. Adams, An. Mag. N. H. p. 412. 1860. Dav.
P. Z. S. p. 305, pl. xxx. f. 16-17. 1871.

Japan.

7. TEREBRATELLA OCCIDENTALIS, Dall.

T. occidentalis, Dall, Proc. Cal. Acad. Sci. iv. p. 182. 1871.
Waldheimia Grayi, of Cala. authors, not of Davidson.

Coast of California, near Monterey.

8. TEREBRATELLA PULVINATA, Gould.

Terebratula pulvinata, Gld. Proc. B. S. N. H. Dec. 1850.
Exp. Shells, p. 468, pl. 44, fig. 581.

Waldheimia pulvinata, Gld. Otia. Conch. p. 97. 1862.
Cooper, Geogr. Cat. Cal. Moll. p. 3. No. 4. 1867.

Terebratella pulvinata, Cpr. Check List, W. C. Shells, June, 1860. Dall, Am. Journ. Conch. vi. p. 117. 1870.

Terebratula pulvilla, Cpr. Rep. Br. As. p. 213. 1856.

Orange Harbor, Tierra del Fuego.

9. TEREBRATELLA RUBIGINOSA, Dall.

Terebratella ———? Dall, Am. Journ. Conch. vi. p. 122, pl. 6, fig. 4. 1870.

Terebratella rubiginosa, Dall, *loc. cit.* vii. p. 65. 1871.

"Cape of Good Hope." (?)

10. TEREBRATELLA RUBICUNDA, Solander.

Anomia rubicunda, Sol. MSS. Mus. Banks.

Terebratula rubicunda, Donovan, Nat. Rep. pl. 56, fig. 2-4.

Sby. Thes. Conch. i. p. 351, pl. 70, figs. 45-47. Dav. An.

Nat. Hist. p. 367. 1852.

Terebratella rubicunda, Reeve, Conch. Icon. pl. vii. fig. 27

a-b. Dall, Am. Journ. Conch. vi. p. 117. 1870.

Waltonia Valenciennesii, Dav. (fry) teste Woodward.

New Zealand.

11. TEREBRATELLA SPITZBERGENSIS, Davidson.

T. Spitzbergensis, Dav. P. Z. S. p. 78. 1852. Rve. Conch.

Icon. pl. vii. fig. 24. Dav. P. Z. S. p. 305, pl. xxx. figs. 13-14. 1871.

T. caput-serpentis, Hisinger (not Linné). 1837.

Magasella Spitzbergensis, Dall, Am. Journ. Conch. vi. p. 137. 1870.

Arctic Seas; both shores of Northern Atlantic; Japan.

12. TEREBRATELLA TRANSVERSA, Sowerby.

Terebratula transversa, Sby. Thes. Conch. i. p. 261, pl. 72, figs. 114-115. 1846. Dall, A. J. C. vii. p. 64.

Terebratula caurina, Gld. Proc. B. S. N. H. iii. 1850. Exped. Shells, p. 468, pl. 44, fig. 582.

Terebratella caurina, Gld. Otia Conch. p. 97. 1862. Cpr.

Supl. Rep. Br. As. p. 636. 1864. Dall. Am. Journ. Conch. vi. p. 119, pl. 6, figs. 1-3. 1870.

T. canrena, Cpr. Rep. Br. As. p. 298. 1856.

Aleutian Islands to Oregon, W. C. N. Am.

DOUBTFUL SPECIES.

Terebratella Labradorensis, Sby. Thes. Conch. i. p. 362, pl. 71, figs. 89-90.

Labrador??

Subgenus LAQUEUS, Dall.

Laqueus, Dall, Am. Journ. Conch. vi. p. 123. 1870.

1. LAQUEUS CALIFORNICA, Koch.

Terebratula Californica, Koch, Kuster, Nov. Ed. Mart. viii. pl. 26, figs. 21-23. Sby. Thes. Con. i. p. 352, pl. 70, figs. 50-52.

Waldheimia Californica, Gray, B. M. Cat. p. 60, No. 8. Cpr. Suppl. Rep. Br. As. p. 568 and 636, Cp. Geog. Cat. p. 3.

Laqueus Californicus, Dall, l. c. p. 123, pl. 7, fig. *f*, pl. 8, figs. 9-10. 1870. Davidson, P. Z. S. p. 306. 1871.

Coast of Sta. Barbara Co., California

2. LAQUEUS RUBELLA, Sby.

Terebratula rubella, Sby. Thes. Conch. i. p. 350, pl. 69, figs. 40-42. 1846.

Laqueus suffusus, N. S.? Dall, Am. Journ. Conch. vi. p. 125, pl. 7, figs. *g*, *h*, *s*. 1870.

Waldheimia cranium, A. Ad. An. Mag. Nat. Hist. xi. ser. iii. 1863. (Non Müller.)

Terebratella rubella, Gray, B. M. Cat. p. 90.

Laqueus rubella, Davidson, P. Z. S. p. 306, pl. xxx. figs. 18-22. 1871.

Japan.

Genus MEGERLIA, King.

Megerlia, King, Perm. Fos. pp. 81, 145. 1850.

Megerlea, Dav. Intr. a l'Hist. Nat. des Brach. Mém. Lin. Soc. de Norm. p. 129. 1856.

Not *Megerlea*, Robineau Desvoidy (Diptera).¹

Megathyris (pars) D'Orb.

Orthis, Phil. Moll. Sicilia, ii. p. 67. Michelotte, Fauna Mis. pl. ii. fig. 21.

Terebratella (pars), D'Orb. An. Sci. Nat. p. 66. 1848.

Ismenia, King, Perm. Fos. pp. 81, 142 (not p. 245). Gray, B. M. Cat. p. 104.

SECTION A. (*Megerlia*).²

1. MEGERLIA TRUNCATA, Linné.

Anomia truncata, Lin. S. N. 1152. 1767.

¹ Genus not adopted, and hence not pre-occupied.

² Lateral loops closed, shell transverse, sculptured.

- Terebratula truncata*, Retz, Nov. Gen. p. 14. 1788.
Anomia disculus, Pallas. Misc. Zool. p. 184, pl. 14, fig. 1.
Terebratula disculus, Blainv. Dict. Sci. Nat. liii. p. 138.
Terebratella truncata, D'Orb. An. Sci. Nat. viii. p. 66, pl. vii. figs. 11, 12, 16, 37. 1848.
Orthis truncata, Phil. Moll. Sic. ii. p. 69.
Terebratula oblita, Michel. Brach. p. 4.
Orthis oblita, Michel. Faun. Misc. pl. ii. f. 21.
Megathyris oblita, D'Orb. Prodr. iii. p. 134.
Anomia scobinata, Gmel. Syst. Nat.
Terebratula decussata, De Blainv.
Terebratula irregularis, De Blainv.
Megerlia truncata, King, Perm. Fos. p. 145. Rve. Conch. Icon. pl. xi. fig. 47 a-c.
Mediterranean; adjacent Atlantic shores; Australia.

DOUBTFUL SPECIES.

- (?) *Megerlia (Terebratula) Monstruosa*, Scacchi, Oss. Zool. ii. p. 1.
Mediterranean.

SECTION B. (*Ismenia*.)¹

2. **MEGERLIA JEFFREYSI**, Dall.
Ismenia? Jeffreysi, Dall, Am. Journ. Conch. vii. p. 65, pl. xi. fig. 7-10, Mar. 1871.
Northeast Atlantic.
3. **MEGERLIA SANGUINEA**, Chemn.
Anomia sanguinea, Chemn. Conch. Cab. viii. p. 96, pl. 78, fig. 706. Dillwyn, Cat. Rec. Shells, p. 293. 1817 (not of Solander).
Anomia sanguinolenta, Gmel. S. N. p. 3347.
Anomia cruenta, Sol. MSS. (not of Dillwyn).
Terebratula cruenta, Donovan. Nat. Rep. pl. 56, f. 1.
Terebratula erythroleuca, Quoy & Gaim. Voy. Astrolabe. iii. p. 557, pl. 85, figs. 8-9. Desh. in Lam. Ed. ii. vii. p. 350.
Terebratula sanguinea, Sby. Thes. Conch. i. p. 357, pl. 71, figs. 71-73 (not of Lam., Leach, nor Donovan).
Terebratula pulchella, Sby. Thes. Conch. i. p. 360, pl. 71, figs. 105-107.

¹ Lateral loops open, shell more or less swollen, ovate, smooth.

- Terebratella sanguinea*, Dav. An. Nat. Hist. p. 368. 1852.
 Gray, B. M. Cat. p. 90. Reeve, Conch. Icon. pl. vii. fig.
 25, a, b, c.
Megerlea pulchella, Dav. An. Nat. Hist. p. 369. 1852.
Ismenia pulchella, Gray, B. M. Cat. p. 104.
Ismenia sanguinea, A. Ad. An. Nat. Hist. ii. p. 99. 1863.
Megerlia sanguinea, Dav. P. Z. S. p. 308, pl. xxxi. fig. 1-2.
 1871.

Japan ; Indo-Pacific.

DOUBTFUL SPECIES.

- Megerlia (Ismenia) Reevei*, A. Ad. An. Mag. N. H. ii. p. 99. 1862.
 Dav. P. Z. S. p. 308, pl. xxxi. fig. 3 (? *sanguinea*, var.).
 1871. *Gotto, Japan.*

Genus **MAGASELLA**, Dall.

- Magasella*, Dall, Am. Journ. Conch. vi. p. 134. 1870. Dav.
 P. Z. S. p. 307. 1871.
1. **MAGASELLA ADAMSI**, Davidson.
M. Adamsi, Dav. P. Z. S. p. 307, pl. xxx. figs. 23, 24.
 1871. *Japan.*
 2. **MAGASELLA ALEUTICA**, Dall.
M. Aleutica, Dall, Proc. Cal. Acad. Sci. Dec. 16, 1872 (pub-
 lished in advance of Proc.).
Unalashka to the Shumagins.
 3. **MAGASELLA CRENULATA**, Sowerby.
Terebratula crenulata, Sby. Thes. Conch. i. p. 358, pl. 71,
 figs. 96-98. 1846.
Magas crenulata, Gray, B. M. Cat. p. 99.
Magasella crenulata, Dall, l. c. p. 137.
"Santa Cruz, Canaries." (?)
 4. **MAGASELLA CUMINGI**, Davidson.
T. Cumingi, Dav. P. Z. S. p. 78, pl. xiv. figs. 10-16. 1852.
 Rve. Conch. Ic. pl. viii. f. 29.
Magasella Cumingi, Dall, l. c. p. 137. 1870.
New Zealand.
 5. **MAGASELLA EVANSII**, Davidson.
Terebratella Evansii, Dav. P. Z. S. p. 77, pl. xiv. fig. 7-9.
 1852.
Magas Evansii, Gray, B. M. Cat. p. 99.

- Magas Valenciennesii*, Rve. Conch. Ic. pl. 8, fig. 31 *a, b, c*.
Magasella Evansii, Dall, l. c. p. 134, fig. 16 *a, b*. 1870.
 (Type.) New Zealand.
6. MAGASELLA FLEXUOSA, King.
Terebratula flexuosa, King, Zool. Journ. v. p. 337. Sby.
 Thes. Conch. i. p. 347, pl. 69, figs. 23, 24. 1846.
Terebratella flexuosa, Gray, B. M. Cat. p. 87.
Terebratella magellanica, Reeve, Conch. Icon. Journ. de
 Conchyl, p. 127. 1861.
Magasella flexuosa, Dall, l. c. p. 135.
Orange Harbor, Patagonia.
7. MAGASELLA GOULDII, Dall.
M. Gouldii, Dall, Dav. P. Z. S. p. 307, pl. xxxi. fig. 11 *a, b, c*.
 1871.
M. Gouldii, Dall, Am. Journ. Conch. vii. p. 67, pl. 11, fig.
 11. July, 1871. Japan.
8. MAGASELLA INCONSPICUA, Sowerby.
Terebratula inconspicua, Sby. Thes. Conch. i. p. 359, pl.
 lxxi. figs. 102-104. 1846.
Terebratella rubicunda, Reeve non Sol.
Magasella inconspicua, Dall, Am. Journ. Conch. vii. p. 67.
 1871.
Lyall Bay, New Zealand.
9. MAGASELLA LÆVIS, Dall.
M. lævis, Dall, Am. Journ. Conch. vi. p. 136, pl. vi. figs. 9,
 10, 13. 1870.
Orange Harbor, Patagonia.
10. MAGASELLA PATAGONICA, Gould.
Terebratula Patagonica, Gld. Proc. B. S. N. H. Dec. 1850.
 Otia Conch. p. 97. Exp. Shells, pl. 44, figs. 583, 583 *e*.
Waldheimia patagonica, Gld. Otia Conch. Rect. p. 246,
 Index, p. 256.
Terebratulina? patagonica, Suess, Wohn. der Brach. ii.
 p. 16.
 ? *Magas patagonica*, Dall, l. c. p. 133, pl. 6, figs. 11, 12. 1870.
Orange Harbor, Patagonia.
11. MAGASELLA SUFFUSA, Reeve.
Terebratella suffusa, Rve. Conch. Icon. pl. v. fig. 13, Journ.
 Conchyl. p. 128. 1861.
Magasella suffusa, Dav. P. Z. S. p. 307. 1871. Dall, l. c.
 vii. p. 67. 1871.
Habitat?

SECTION **KRAUSSININÆ**, DALL.

Kraussininae, Dall, l. c. p. 137. 1870.

Genus **KRAUSSINA**, Dav.

Kraussia, Dav. An. Nat. Hist. ix. p. 369. 1852. Gray, B. M. Cat. p. 109. Rve. Conch. Ic. pl. ix. (nom. preoc. in corals, teste Davidson).

Kraussina, Dav. An. Mag. Nat. Hist. p. 39. 1861. Dall, Am. Journ. Conch. vi. p. 138. 1870.

1. **KRAUSSINA COGNATA**, Chemn.

Anomia cognata, Chemn. Con. Cab. viii. p. 78, pl. 688.

Terebratula cognata, Sby. Thes. i. p. 346, pl. 68, figs. 12-14.

Kraussia cognata, Dav. An. Nat. Hist. p. 370. 1852.

Reeve, Conch. Icon. pl. ix. fig. 38.

Kraussina cognata, Dall, Am. Journ. Conch. vi. p. 140. 1870.
South Africa.

2. **KRAUSSINA LAMARCKIANA**, Dav.

Kraussia Lamarckiana, Dav. P. Z. S. p. 80, pl. xiv. figs. 22, 23. 1852. Gray, B. M. Cat. p. 111.

Kraussina Lamarckiana, Dav. An. Mag. Nat. Hist. p. 39. 1861. Dall, l. c. p. 139, fig. 18. 1870.

Sidney, Australia.

3. **KRAUSSINA PICTA**, Val.

K. picta, Val. Verh. Zool. Bot. Ges. Wien, p. 894. 1865.

Dall, l. c. vi. p. 140. 1870.

Island of St. Paul, Indian Ocean.

4. **KRAUSSINA RUBRA**, Pallas.

Anomia rubra, Pallas, Misc. Zool. pl. xiv. figs. 2, 11. 1766.

Anomia striata, Chemn. viii. p. 94, pl. 77, f. 703.

Anomia capensis, Gmelin, Syst. Nat. p. 3347. Dillwyn, Cat. R. S. i. p. 292.

Terebratula rubra, Blainv. Dict. Sci. Nat. liii. p. 138. Sby. Thes. Conch. i. pl. 68, fig. 10.

Terebratula capensis, Krauss. Sud-Afr. Moll. p. 32, pl. ii. fig. 10 (not of Ad. & Rve.)

Terebratula rotundata, Blainv. fide Rve.

Kraussia rubra, Dav. An. Mag. N. H. p. 370. 1852 (Type).

Rve. Conch. Icon. pl. ix. fig. 37 a, b, c. Gray, B. M. Cat. p. 109.

Kraussina rubra, Dav. An. Mag. N. H. p. 39. 1861 (Type).
Dall, l. c. p. 138, f. 17.

South Africa.

DOUBTFUL SPECIES.

KRAUSSINA PISUM, Lam. (Val.) An. s. Vert. Ed. ii. vii. p. 330.

T. algoensis, Sby.

Terebratula natalensis, Krauss. = *K. cognata*?

South Africa.

KRAUSSINA CAPENSIS, Ad. & Rve. Zool. Samar. p. 71, pl. 21, f. 4.

= *Kraussia Deshayesii*, Dav. = *K. rubra*, Pallas?

South Africa.

Genus **BOUCHARDIA**, Dav.

Bouchardia, Dav. Bull. Soc. Geol. de France, vii. p. 62, pl. i. 1846.

Rve. Conch. Icon. pl. viii.

Pachyrhynchus, King, Perm. Fos. p. 70. 1850.

1. **BOUCHARDIA ROSEA**, Mawe.

Terebratula tulipa, Blainv. Dict. Sci. Nat. liii. p. 144. 1824.

T. unguis, Kuster, Conchyl. Cab. vii. p. 35, figs. 8-10.

Anomia rosea, Mawe, Int. to Conch. t. 15, fig. 4. 1823.

(*Terebratula rosea*, Sby. Gen. fig. 4. Thes. Conch. i. p. 357, pl. lxxi. figs. 74-77. Hanley, Rec. Sh. p. 322. 1856.

Bouchardia rosea, Dav. l. c. pl. i. figs. 1-6. (Type.)

Pachyrhynchus roseus, King, Perm. Fos. p. 70.

Bouchardia tulipa, Dav. Mt. Brach. p. 70, figs. 17-18, pl.

vi. figs. 22-25. Rve. Conch. Icon. pl. viii. f. 33. Dall;
l. c. p. 141.

Rio de Janeiro.

DOUBTFUL SPECIES.

BOUCHARDIA FIBULA, Rve. Conch. Ic. pl. vii. fig. 30 a-b. 1861. =

B. tulipa var.?

Habitat?

SECTION **PLATIDIINÆ**, DALL.

Platidiinæ, Dall. Am. Journ. Conch. vi. p. 142. 1870.

Genus **PLATIDIA**, Costa.

Platidia, O. G. Costa, Fauno del Reg. Nap. p. 47. Jan. 1852.

Dall, Am. Journ. Conch. vi. p. 142, 1870, vii. p. 68. 1871.

Morrisia, Davidson, An. Nat. Hist. p. 371. May, 1852. Also

Woodward, Bronn, Reeve, H. & A. Adams and Chemn.

1. PLATIDIA ANOMIOIDES, Scacchi.

Orthis anomioides, Scacchi, Phil. Moll. Sic. ii. p. 69, pl. 18, fig. 9. 1844.

T. appressa, Forbes, Rep. Br. As. p. 193. 1843.

T. seminulum, Davidson (not Phil.).

Morrissia anomioides, Dav. Mt. Brach. and An. Nat. Hist. p. 371. 1852. Rve. Conch. Icon. pl. 10, fig. 40.

Platidia anomioides, O. G. Costa, l. c. p. 47. 1852. Dall, l. c. p. 143, figs. 20–21. Bull, M. C. Zool. iii. No. 1, p. 18. 1871.

Florida Reefs; Shetland Islands; Mediterranean.

2. PLATIDIA GIGANTEA, Deshayes.

P. gigantea, Desh. Maillard, Moll. Isle de Bourbon. 1864.

Isle de Bourbon, Southern Ocean.

3. PLATIDIA LUNIFERA, Philippi.

T. lunifera, Phil. Moll. Sicilia, i. p. 97, pl. vi. fig. 16. 1836.

Orthis lunifera, Phil. loc. cit. ii. p. 69. 1844.

Morrissia lunifera, Gray, B. M. Cat. p. 108.

Platidia lunifera, Dall, l. c. p. 143. 1870.

Mediterranean.

DOUBTFUL SPECIES.

PLATIDIA DAVIDSONI, Deslongchamps, An. Nat. Hist. xvi. p. 443, pl. x. fig. 20 *a-d*. 1855.

Mediterranean.

SECTION MEGATHYRINÆ, DALL.

Argiopidæ, King, Perm. Fos. p. 142. 1850.

Megathyrinæ, Dall, l. c. p. 143. 1870. Bull. Mus. C. Zool. iii. i. p. 18. 1871.

Genus MEGATHYRIS, D'Orbigny.

Megathyris, D'Orb. Pal. Fran. Terr. Cret. p. 147. 1847. Prodr. ii. p. 259, An. Sci. Nat. 1848. Forbes & Hanley, Brit. Moll. ii. p. 361. 1850. Dall. Am. Journ. Conch. vi. p. 144, 1870; vii. p. 68. Bull. Mus. Comp. Zool. iii. i. p. 18. 1871.

Argiope, Deslongchamps, Mém. Soc. Lin. de Norm. vii. p. 9, 1842 (not Savigny & Audouin, 1827, *Arachnidæ*). Desl. Bull. Soc. Geol. de France, vii. ser. ii. p. 65. Also Davidson, Reeve, Woodward, Bronn, H. & A. Adams, Chemn, Jeffreys, and the majority of authors. (Nom. preoc.)

Orthis, sp. Phil. Hagen, Michellotti, non Dalman.

1. MEGATHYRIS DECOLLATA, Chemnitz.

Anomia decollata, Chemn. Conch. Cab. viii. p. 96, pl. 78,
fig. 705.

Anomia detruncata, Gmelin, Syst. Nat.

Terebratula unguis, Retz, Nov. Gen. Test. 1788.

Terebratula decollata, Deshayes, An. s. Vert. Ed. ii. vii. p.
350.

Terebratula aperta, Blainville, Dict. Sci. Nat. Also Hi-
dalgo, teste Jeffreys.

Terebratula pectiniformis, Costa, Fauna del Reg. Nap.
1852.

Terebratula dimidiata, Scacchi.

Terebratula cardita, Risso, Faun. Eur. Mer.

Terebratula aura-antiqua, Risso, l. c.

Argiope decollata, Desl. l. c. (type.) Dav. Rve. Conch.
Icon. pl. x. and most modern authors.

Megathyris decollata, D'Orb. l. c. (type.) Dall, Am. Journ.
Conch. vi. p. 145, figs. 22, 23, 1870; vii. p. 68, 1871.

Atlantic coast of Spain, Mediterranean.

Subgenus CISTELLA, Gray.

Cistella, Gray, B. M. Cat. p. 114. Jan. 1853. H. & A. Adams,
Gen. Rec. Moll. ii. p. 581. Dall, l. c. vi. p. 145, vii. p. 68.
Bull. Mus. Comp. Zool. l. c. p. 19.

Zellania, Moore, Proc. Somerset Arch. Nat. Hist. Soc. 1854.
Davidson, Mem. Soc. Lin. de Norm. p. 141. 1856 (type
Z. Davidsoni, Moore). Chem. Man. de Conchyl. ii. p. 210.

1. CISTELLA BARRETTIANA, Davidson.

Argiope Barrettiana, Dav. P. Z. S. p. 103, pl. xii. fig. 3 a-c.
Feb. 1866.

Argiope antillarum, Crosse & Fischer, Journ. de Conchyl.
p. 270, pl. viii. fig. 7. Mar. 1866.

Cistella Barrettiana, Dall, l. c. vi. p. 146.

Jamaica; Guadeloupe.

1a. CISTELLA BARRETTIANA, var. LUTEA, Dall.

C. Barrettiana, var. *lutea*, Dall, Bull. Mus. Comp. Zool. iii.
No. 1, p. 20, pl. i. fig. 5, 5a, pl. ii. figs. 4-8. May, 1871.

Tortugas.

2. CISTELLA CISTELLULA, S. Wood.
Terebratula cistellula, S. Wood. An. Mag. N. Hist. vi. p. 5. 1840.
Ter. lunifera, Phil. Moll. Sic. ii. 1844 (not of Sowerby).
Megathyris cistellula, Fbs. & Hanl. Brit. Moll. ii. p. 361, pl. 57, fig. 9. 1850.
Argiope cistellula, Davidson, An. Mag. Nat. Hist. p. 40. 1861. Rve. Conch. Icon. pl. 10, fig. 46.
Cistella cistellula, Gray, B. M. Cat. p. 114. 1853. Dall, l. c. vi. p. 146. 1870.
Northwest shores of Europe; Zetland; Mediterranean.
3. CISTELLA CUNEATA, Risso.
Terebratula cuneata, Risso, Eur. Merid. p. 388, fig. 179. 1826.
T. detruncata, Scacchi, non Gmelin.
T. soldaniana, Risso, l. c. p. 389, fig. 178. Also Blainville.
T. pera, Kuster, vii. i. t. 2, 6, figs. 14-18, as of Muhlfr.
Orthis pera, Phil. Moll. Sic. ii. 1844.
Argiope cuneata, Dav. An. Mag. Nat. Hist. p. 40. 1861. Rve. Conch. Icon. pl. 10, fig. 44.
Cistella cuneata, Gray, B. M. Cat. p. 114 (type).
Mediterranean.
4. CISTELLA NEAPOLITANA, Scacchi.
Ter. Neapolitana, Scacchi, Oss. Zool. ii. p. 18. 1833.
Orthis Neapolitana, Phil. ii. p. 69.
Argiope Neapolitana, Dav. An. Mag. Nat. Hist. p. 40. 1861.
Ter. seminulum, Phil. i. p. 97, non Davidson.
Ter. lunifera, Sby. i. p. 356, t. 71, figs. 85-86, non Philippi.
Argiope Forbesii, Davidson.
Cistella Neapolitana, Dall, l. c. vi. p. 146, fig. 24. 1870.
Mediterranean.
5. CISTELLA SCHRAMMI, Crosse & Fischer.
Argiope Schrammi, Crosse & Fischer, Journ. de Conchyl. xiv. p. 269, pl. viii. fig. 6. Mar. 1866.
Cistella Schrammi, Dall, l. c. vi. p. 146. 1870. Bull. Mus. Comp. Zool. iii. No. 1, p. 19. 1871.
Guadaloupe, W. I.
- 5a. CISTELLA (SCHRAMMI, var.?) RUBROINCTA, Dall.
Cistella (Schrammi, var.?) rubroincta, Dall, Bull. Mus.

Comp. Zool. l. c. p. 19, pl. i. fig. 6, 6a. May, 1871. Am. Journ. Conch. vii. p. 68. July, 1871.

Tortugas.

6. *CISTELLA WOODWARDIANA*, Davidson.

Argiope Woodwardiana, Dav. P. Z. S. p. 103. Feb. 1866. pl. xii. fig. 4 a-c.

Cistella Woodwardiana, Dall, Am. Journ. Conch. vi. p. 146, vii. p. 69. Bull. M. C. Z. l. c. p. 42.

Jamaica.

Family THECIDIIDÆ, Dall.

Thecidæ, Desh. Ency. Meth. iii. 1836.

? *Thecidiidæ*, Dall, Am. Journ. Conch. vi. p. 147. 1870.

Genus **THECIDIUM**, DeFrance.

Thecidea, DeFr. Férussac, Tabl. Syst. p. 38. 1828.

Thecidium, Lacaze Duthiers, Ann. Sci. Nat. Zool. t. xv. p. 262. 1861.

Thecidium, Sby. Gen. Shells, xx. 1844. Dav. Intr. Brit. Brach. p. 77. Dall, Am. Journ. Conch. vi. p. 147.

1. **THECIDIUM BARRETTI**, Woodward.

T. Barretti, Woodv. Geol. Mag. i. pl. ii. f. 1-3. 1864. Dav. P. Z. S. p. 104. 1866. Dall, l. c. p. 151.

Jamaica.

2. **THECIDIUM MEDITERRANEUM**, Risso.

Thecidea Mediterranea, Risso, Eur. Mer. p. 394, fig. 183.

Desh. Lam. vii. p. 346, Phil. Moll. Sic. i. p. 99, t. 6, fig. 17.

T. Mediterraneum, Sby. Thes. Conch. vii. p. 371, pl. 73, figs. 30-32. 1846. Lacaze Duthiers, l. c. p. 262, pl. i.-iv.

Dall, l. c. p. 151, fig. 27.

T. testudinaria, Michelotti.

T. spondylea, Scacchi. *Jamaica? Mediterranean.*

Family RHYNCHONELLIDÆ, Gray.

Rhynchonellidæ, Gray, B. M. Cat. 1850. Dav. Intr. Brit.

Brach. p. 73. 1851. Dall, l. c. vii. p. 69. 1871.

Genus **RHYNCHONELLA**, Fischer.

Rhynchonella, Fischer de Waldheim, Not. Fos. du Gour. de Moscou. 1809. (Type *R. loxia*, F., Jura.)

Stenocisma? James Hall.

Subgenus HEMITHYRIS, D'Orb.

- Hemithiris*, D'Orb. Pal. Fran. Fer. Crèt. vol. iv. p. 342. 1847.
Dall, Am. Journ. Conch. vii. p. 70. 1871.
- Hypothyris*, sp. Fbs. and Hanley, Brit. Moll. ii. p. 345. 1855.
1. HEMITHYRIS GRAYI, Woodward.
Rhynchonella Grayi, Woodw. An. Mag. N. Hist. p. 444, pl. x. fig. 16 *a-b-c*, 1855. Dall, l. c. vi. p. 153. 1870.
Feejee Islands.
2. HEMITHYRIS LUCIDA, Gld.
Rhynchonella lucida, Gld. Proc. B. S. N. H. p. 323. 1860.
Otia Conch. p. 121. A. Ad. An. Mag. N. H. 3d ser. xi. p. 100. 1863. Dall, l. c. vi. p. 153. 1870. Dav. P. Z. S. p. 309. pl. xxxi. figs. 13, 14. 1871.
Japan.
3. HEMITHYRIS NIGRICANS, Sby.
Rhynchonella nigricans, Sby. (as *Terebratula*), Thes. Conch. i. p. 342, pl. 71, figs. 81-82. 1846. Dall, l. c. p. 152, fig. 34. 1870.
New Zealand.
4. HEMITHYRIS PSITTACEA, Gmelin.
Anomia psittacea, Gmelin, S. Nat. 3348.
Rhynchonella psittacea, Auct. Rve. Conch. Icon. pl. i. f. 2 *a-c*
Dall, l. c. vi. p. 152, fig. 30-33. 1870.
Hemithiris psittacea, D'Orb. l. c. (type).
Hypothyris psittacea, Fbs. and Hanl. Br. Moll. ii. p. 346, t. 57, f. 1-3.
Boreal and Arctic Seas.
5. HEMITHYRIS SICULA, Sequenza.
Rhynchonella sicula, Sequenza, Dav. Mon. It. Tert. Brach. ii. p. 23, pl. xx. fig. 6. 1870. Dall, l. c. vii. p. 70. 1871.
Coast of Portugal.
6. HEMITHYRIS WOODWARDI, A. Adams.
Rhynchonella Woodwardi, A. Ad. An. Mag. 3d ser. xi. p. 100. 1863. Dav. P. Z. S. p. 309, pl. xxxi. fig. 12. 1871.
Dall, l. c. vi. p. 153. 1870.
Japan.

Genus DIMERELLA, Zittel.

- Dimerella*, Zittel, Dunker and Von Meyer's, Pal. Aug. p. 220. 1870. Type *D. Gumbeli*, Zit. l. c. p. 222, pl. xli. figs. 27-30.

Cryptopora, Jeffreys, Nature, p. 136. Dec. 2, 1869. (No descr.)

Atretia, Jeffreys, Proc. Roy. Soc. 121, p. 421, par. 36. (No description.)

1. DIMERELLA GNOMON, Jeffreys, MSS.

(Jeffreys, l. c. ad ref. descr. null. *Cryptopora gnomon et Atretia gnomon.*) Dall, l. c. vii. p. 70. 1871.

Deep Sea, west of Ireland.

ORDER LYOPOMATA, OWEN.

Lyopomata, Owen, Enc. Brit. Ed. viii. vol. xv. Article Mollusca, p. 339. 1858. Dall, Bull. Mus. Comp. Zool. iii. No. 1, p. 25. 1871.

Pleuropygia, Bronn, Thierr. iii. 1st Abth. p. 301. 1862.

Inarticulata, Huxley, Lect. Class. 1864. Intr. Class. An. p. 116. 1869.

Brachiopoda, valves libres, Desh. Lamk. An. s. Vert. 2d Ed. vii. p. 309. 1836.

Palliobranchiata, testa acardis, Van der Høeven, Handb. der Zool. p. 692. 1850.

Family CRANIIDÆ, Gray.

Craniadæ, Gray, B. M. Cat. p. 155. 1840. Dav. Int. Class. Brit. Brach. p. 51. 1851. Woodward, Man. Rec. and Foss. Shells, p. 235. 1854.

Cranidæ, Owen, Anat. Inv. Index, p. 683. 1853.

Craniidæ, H. & A. Ad. Gen. Rec. Moll. ii. p. 583. 1858. Jeffreys, Brit. Conch. ii. p. 24. 1863. Dall, Bull. Mus. Comp. Zool. iii. No. 1, p. 25. 1871. (Full synonymy.)

Genus CRANIA, Retzius.

Crania, Retzius, Schrift. Berl. Ges. Naturf. Freunde, Bd. ii. p. 72. 1781. Type *C. craniolaris*, Lin. sp. Syst. Nat. xii. i. pl. ii. p. 1150. 1767. = *C. brattensburgensis*, Retz. + *C. numurulus*, Lam. Dall, Bull. Mus. Comp. Zool. vol. iii. No. 1, p. 27. 1871. (Full synonymy.)

Cranicella, Raf. 1815, + *Orbicula*, Cuv. 1798, + *Orbicula* (pars) Lam. 1799, + *Discina*, Turton (sp.), 1822, + *Anomia* (sp.), Lin. 1760, + *Patella* (sp.), Muller, 1766, + *Siphonaria* (sp.), Quenstedt, 1852, + *Criopus*, Gray,

1821, + *Craniolites*, Schlotheim, 1820, + *Orbicularius*, Dumeril, 1809, + *Numulus*, Agassiz, 1846, + *Criopoderma*, Agassiz, 1848, + *Cryopus*, Deshayes, 1836, etc. etc.

Subgenus CRANIA, Dall.

Crania, Dall, Bull. Mus. Comp. Zool. *loc. cit.* p. 26. 1871.

1. CRANIA ANOMALA, Muller.

Patella anomala, Mull. Prodr. Zool. Dan. p. 237, 2870. 1776.

Gmel. S. N. p. 3721.

Patella distorta, Montagu, Trans. Lin. Soc. xi. p. 195, pl. 13, fig. 5. 1808.

Patella Kermes, Humphrey, fide Sby. & Rve.

Anomia turbinata, Dillwyn, Cat. i. p. 286.

Criopus anomalus, Flem. Phil. Zool. ii. p. 499.

Criopus orcadensis, Leach, Gray, Moll. Gt. Brit. p. 358, pl. xiii. figs. 6–8. Dec. 1852.

Orbicula norvegica, Lam. Syst. p. 140. 1801. Not of Sby. Lin. Tr. and Gen. Sh., Rang. Man. nor Blainville, Man p. 515.

Orbicula anomala, Cuvier, Tabl. El. p. 435. 1799.

Discina ostreoides, Turton, Dith. Brit. p. 238. 1822. Not of Lamarck.

Crania turbinata, Hanley, Wood's Index, Test. pl. xi. fig. 2. 1856. Not of Poli.

Crania personata (part), DeFrance, Dict. Sci. Nat. xi. p. 312. 1818.

Crania personata. Lam. (syn. excl.). An. s. Vert. Ed. i. iv. p. 938. 1819.

Crania norvegica, Sby. Thes. Conch. i. p. 368, pl. 73, figs. 15 and 17. 1847. Fbs. and Hanl. Brit. Moll. i. pl. U. fig. 2. 1853.

Crania rostrata, Thorpe, Brit. Mar. Conch. p. 125. 1844. Also Fbs. and Hanley, Brit. Moll. ii. p. 366. 1855. Not of Høninghaus.

Crania anomala, Sby. Conch. Man. Ed. ii. p. 125, fig. 197a. 1842. Dav. Int. Brach. p. 123, figs. 44–46, pl. ix. figs. 237, 238. Rve. Conch. Icon. pl. i. fig. 4. 1862. Dall, Bull. Mus. Comp. Zool. vol. iii. No. 1, p. 33. 1871. (Full synonymy.)

North European Seas.

- 1a. CRANIA ANOMALA, var. TURBINATA, Poli.
Anomia turbinata, Poli, Test. Utriusq. Sicil. ii. p. 189, 261,
 t. 30, fig. 15. 1795. (In synonymy.)
Criopus fimbriatus, Poli, l. c. (Animal.)
Criopderma turbinatum, Poli, l. c. (Shell.)
Anomia craniolaris (pars), Gmelin, Syst. Nat. p. 3340.
 1792.
Orbicula turbinata, Lam. An. s. Vert. Ed. ii. vii. p. 317.
 1836.
Crania personata, Blainv. Dict. Sci. Nat. xi. p. 312. Desh.
 Enc. Meth. ii. c. p. 16. 1830. (Part.)
Crania ringens, Høeninghaus, Mon. Cran. p. 3, No. 2, fig. 2.
 Lam. Hist. An. s. Vert. Ed. ii. vii. p. 302. 1836. Sby.
 Thes. Conch. i. p. 367, pl. 73, f. 10, 11.
Crania rostrata, Desh. An. s. Vert. Ed. ii. vii. p. 302. 1836.
 (Partly.) Not of Høeninghaus.
Crania anomala, var. *turbinata*, Dall, Bull. Mus. Comp.
 Zool. l. c. p. 34. 1871. (Full synonymy.)
Mediterranean.
- 1b. CRANIA ANOMALA, var. ALBA, Jeffreys.
C. anomala, var. *alba*, Jeffreys, Brit. Conch. v. p. 165. 1869.
 Dall, Bull. l. c. p. 34. 1871.
Shetland, Hebrides.
- 1c. CRANIA ANOMALA, var. POURTALESII, Dall.
C. anomala, var. *Pourtalesii*, Dall, Bull. Mus. Comp. Zool.
 l. c. p. 35, pl. i. fig. 7 a, b. 1871.
Florida Keys.
2. CRANIA JAPONICA, A. Adams.
Crania japonica, A. Ad. An. Mag. N. Hist. 3d ser. xi. p.
 100. 1863. Dall, Am. Journ. Conch. vii. p. 73. 1871.
 Dav. P. Z. S. p. 311, pl. xxx. fig. 6, 6a. 1871.
Gotto, Japan.
3. CRANIA ROSTRATA, Høeninghaus.
C. rostrata, Høen. Mon. Crania, p. 3, No. 3, f. 3. 1828. Reeve,
 Conch. Icon. pl. i. f. 3. 1862. Dall, l. c. vii. p. 73. 1871.
Mediterranean.
4. CRANIA SUESSI, Reeve.
Crania Suessi, Reeve, Conch. Icon. Mon. Cran. pl. i. fig. 2.
 1862. Dall, l. c. vii. p. 73. 1871. Bull. Mus. Comp.
 Zool. l. c. p. 32. 1871.
Sydney, Australia.

Family DISCINIDÆ, Gray.

- Discinidæ*, Gray, Syn. B. M. i. p. 155. 1840. Davidson, Intr. Brach. pp. 51, 125. 1853. Dall, Bull. Mus. Comp. Zool. l. c. p. 36. 1871. (Full synonymy.)
- Orbiculacea*, Anton, Verzeichn, p. 21. 1839.
- Orbiculidæ*, King, An. Mag. N. H. xviii. p. 28. 1846.
- Orbiculina*, Agassiz, Nom. p. 757 (pars). 1848.
- Craniadæ* (pars), Forbes and Hanley, Brit. Moll. ii. p. 364. 1853.

Genus DISCINA, Lam.

- Discina*, Lam. An. s. Vert. Ed. i. vi. p. 236. 1819.
Cuvier, Règne An. Ed. Voigt, iii. p. 602.
- Crania*, β . Schumacher, Essai, p. 102. 1817.
- Crania* (sp.), Gld. Moll. U. S. Ex. Ex. p. 465. 1852.
- Orbicula*, Sby. Min. Conch. vi. p. 4, pl. 506. 1830. Sby. Thes. Conch. i. p. 365. 1847. Owen, Anat. Inv. p. 503. 1855.
Chemn. Man. ii. p. 231.
- Orbicula* (sp.), Lam. Eichwald.
- Discina*, Gray, Ann. Phil. xxvi. (new ser. x.) p. 244. 1825. Dav. Int. Clas. Braoh. pp. 51, 126. 1853. H. & A. Adams, Gen. Rec. Moll. ii. p. 584. 1858. Dall, Bull. Mus. Comp. Zool. l. c. p. 38. 1871. (Full syn.)

Subgenus DISCINA, (Lam.) Dall.

- Discina*, Dall, Bull. Mus. Comp. Zool. l. c. p. 39. 1871.
1. DISCINA STRIATA, Schumacher.
- Crania* β *striata*, Schum. Essai, p. 102, pl. xx. figs. 1 *a-f*. 1817. Not of DeFrance.
- Crania radiosa*, Gld. Moll. U. S. Ex. Ex. p. 465, figs. 480 *a-c*. 1852.
- Orbicula striata*, Sby. Thes. Conch. i. p. 366, pl. 73, fig. 9. 1847. Forbes and Hanley, Brit. Moll. ii. p. 368. 1853.
Dav. An. Mag. Nat. Hist. ix. p. 376. 1852.
- Orbicula Evansi*, Davidson, P. Z. S. p. 81, No. 12, pl. xiv. figs. 32-34. 1852. An. Mag. Nat. Hist. ix. p. 376. 1852.
Suess, Wohns. I. p. 44 (226). 1859.
- Orbicula norvegica*, Sby. Trans. Lin. Soc. xiii. p. 468, pl. xxvi. fig. 2. 1822. (Syn. excl.) Gen. Sh. fasc. xiii. figs. 3-5. Not *O. norvegica*, Lam.

- Orbicula* (s. g. *Discina*) *norvegica*, Blainv. Dict. Sci. Nat. xxxii. p. 304. 1824. Man. Mal. p. 515, pl. lv. fig. 5. 1825.
- Orbicula* (s. g. *Discina*) *ostreoides*, Rang, Man. Moll. p. 263. 1829.
- Orbicula ostreoides*, Reeve, Conch. Icon. No. 7, pl. i. fig. 7 a-b. 1862.
- Discina ostreoides*, Lam. Hist. An. s. Vert. Ed. i. vi. p. 237. 1819. (Type; no descr.) Ed. ii. vii. p. 297. 1836. Thos. Brown. Conch. Textb. Ed. v. p. 108, pl. xiv. fig. 8. 1839. Macgil'vray, Ib. Ed. ix. p. 124.
- Not *Discina ostreoides*, Turton, Dith. Brit. p. 238. 1822. (= *Crania anomala*.)
- Discina striata*, Dall, Bull. Mus. Comp. Zool. iii. No. 1, p. 39. 1871. Am. Journ. Conch. vii. p. 75. 1871.
Northwest Coast of Africa.

Subgenus DISCINISCA, Dall.

- Discinisca*, Dall, Bull. Mus. Comp. Zool. l. c. p. 37. May, 1871. Am. Journ. Conch. vii. p. 74. 1871.
1. DISCINISCA ANTILLARUM, D'Orbigny.
Orbicula antillarum, D'Orb. Moll. Cuba, p. 368, pl. xxviii. figs. 34-36. 1853. Rve. Conch. Icon. pl. i. fig. 2. 1862.
Discinisca? antillarum, Dall, Bull. Mus. Comp. Zool. l. c. p. 42. Am. Journ. Conch. vii. p. 77. 1871.
Cuba, Martinique
2. *Discinisca (?) atlantica*, Jeffreys MSS.
Deep Water, N. E. Atlantic.
3. DISCINISCA CUMINGI, Broderip.
Orbicula Cumingi, P. Z. S. p. 124. 1833. Reeve, Conch. Icon. pl. i. fig. 6.
Orbicula strigata, Brod. P. Z. S. 1833.
Discinisca Cumingi, Dall, Bull. l. c. p. 42. Am. Journ. Conch. vii. p. 77. 1871.
Cape St. Lucas to Panama.
4. DISCINISCA LÆVIS, Sby.
Orbicula lævis, Sby. Trans. Lin. Soc. xiii. p. 468, pl. xxvi. f. 1 a-d. 1822. Rve. Conch. Icon. pl. i. fig. 4 a-b. 1862.
Discinisca lævis, Dall, Bull. l. c. p. 42. Am. Journ. Conch. vii. p. 76. 1871.
Coast of Peru and Chili.

5. DISCINISCA LAMELLOSA, Broderip.

Orbicula lamellosa, Brod. P. Z. S. p. 124. 1833. Rve.

Conch. Icon. pl. ii. fig. 3. 1862.

Orbicula tenuis, Reeve, not Sowerby.

Discinisca lamellosa, Dall (type), Bull. l. c. p. 41. Am.

Journ. Conch. vii. p. 76. 1871.

Panama to Peru.

6. DISCINISCA STELLA, Gould.

Discina stella, Gould, Proc. B. S. N. H. vii. p. 323. Sept.

1860. Otia Conch. p. 120.

Orbicula stella, Reeve, Conch. Icon. pl. 1, fig. 1. 1862.

Discinisca stella, Dall, Bull. l. c. p. 41. Am. Journ. Conch.

vii. p. 76. 1871.

Singapore; Philippines; China Seas.

7. DISCINISCA TENUIS, Sowerby.

Orbicula tenuis, Sby. Thes. Conch. i. p. 366, pl. 73, figs.

4, 5. 1847. Not of Reeve.

Discinisca tenuis, Dall, Bull. l. c. p. 41. Am. Journ. Conch.

vii. p. 76. 1871.

Habitat?

Family LINGULIDÆ, King.

Lingulidæ, King, Dav. Int. Clas. Brach. p. 133. Dall, Am. Journ.

Conch. vi. p. 153.

SECTION LINGULINÆ, DALL.

Lingulinæ, Dall, l. c. p. 153. 1870.

Genus LINGULA, Bruguière.

Lingula, Brug. Ency. Meth. tab. 250. 1789. Dav. Int. Clas.

Brach. p. 133. Dall, l. c. vi. p. 134. 1870.

Pharetra, Mus. Bolt. Ed. ii. p. 111. 1819.

1. LINGULA ADAMSI, Dall.

Lingula tumidula, A. Ad. (not of Reeve), An. Mag. Nat.

Hist. 3d ser. xi. p. 100. 1863. Davidson, P. Z. S. p. 310.

pl. xxx. fig. 1. 1871.

Korean Archipelago.

2. LINGULA AFFINIS, Hancock.

L. affinis, Han. Tr. Roy. Soc. p. 851, pl. lxvi. figs. 1-2, 1857.

Dall, l. c. vii. p. 77. 1871.

East Indies.

3. LINGULA ANATINA, Lamarck.
L. anatina, Lam. Syst. An. s. Vert. Ed. ii. vii. p. 390. 1836.
 Blainv. Man. t. 51, f. 3. Sby. Thes. Conch. i. p. 337, figs.
 1, 2, 2, 9, 10. Dall, A. J. C. l. c. vi. p. 155, figs. 35-37.
 1870. (Generic type.)
Lingula Chemnitzii, Kust. vii. i. pl. i. figs. 7-9, teste Hanley.
Mytilus lingua, Dillwyn, Cat. p. 322. 1817.
 ? *Lingula Murphiana*, King, Rve. Con. Ic. pl. i. f. 3. 1861.
Philippines and Moluccas.
4. LINGULA EXUSTA, Reeve.
L. exusta, Rve. Conch. Icon. pl. ii. fig. 9. 1861. Dall, l. c.
 vi. p. 156. 1870.
Moreton Bay, Australia.
5. LINGULA HIANS, SWAINSON.
Lingula hians, Sw. Phil. Mag. 62. Zool. Ill. vol. ii. pl. ii.
 Sby. Thes. Conch. i. p. 388, pl. 77, fig. 4. Dall, l. c. vi.
 p. 156.
L. Antonii, Kust. vii. i. pl. i. figs. 7-9.
China Seas; Amboyna.
6. LINGULA HIRUNDO, Reeve.
L. hirundo, Rve. Conch. Icon. pl. ii. fig. 7. 1861. Dall, l. c.
 vi. p. 156. 1870.
Port Curtis, N. E. Australia
7. LINGULA JASPIDEA, A. Adams.
L. jaspidea, A. Ad. An. Mag. Nat. Hist. 3d ser. xi. p. 101.
 1863. Dall, l. c. vi. p. 156. Dav. P. Z. S. p. 310, pl. xxx.
 fig. 3. 1871.
L. Dumortieri, Jeffreys, P. Z. S. p. 311. 1871. (? Not of
 Nyst.) *Japan.*
8. LINGULA LEPIDULA, A. Adams.
L. lepidula, A. Ad. An. Mag. N. H. xi. p. 101. 1863. Dav.
 P. Z. S. p. 311, pl. xxx. fig. 4. 1871. Dall, l. c. vi. p. 156.
 1870. *Inland Sea, Japan.*
9. LINGULA OVALIS, Reeve.
L. ovalis, Rve. P. Z. S. p. 100. 1841. Sby. Thes. Conch.
 i. p. 393, pl. 67, fig. 8. Dall, l. c. vi. p. 156. 1870.
Sandwich Islands.
10. LINGULA SMARAGDINA, A. ADAMS.
L. smaragdina, A. Ad. An. Mag. Nat. Hist. 3d ser. xi. p.
 101. 1863. Dall, l. c. vi. p. 156. 1870. Dav. P. Z. S.
 p. 310, pl. xxx. fig. 2. 1871.
China Sea, Japan.

11. LINGULA TUMIDULA, Reeve.

- Lingula tumidula*, Rve. P. Z. S. p. 100. 1841. Conch.
Syst. i. pl. 125, f. 4. Sby. Thes. Conch. i. p. 393, pl. 67, f. 7.
Lingula compressa, Rve. P. Z. S. p. 100. 1841.
Moreton Bay, Australia.

Genus **GLOTTIDIA**, Dall.

Glottidia, Dall, Am. Journ. Conch. vi. p. 157, 1870; vii. p. 77, 1871.
Lingula, sp. Auct.

1. GLOTTIDIA ALBIDA, Hinds.

- Lingula albida*, Hinds, Voy. Sulph. p. 71, pl. 19, fig. 4. 1844.
Sby. Thes. Conch. i. p. 393, pl. 67, fig. 6. Rve. Conch.
Ic. pl. i. fig. 4. 1861.
Glottidia albida, Dall, Am. Journ. Conch. vi. p. 157, pl. 8,
fig. 1-6. 1870.
Monterey to San Diego, California.

2. ? GLOTTIDIA ANTILLARUM, Reeve.

- Lingula antillarum*, Rve. Conch. Icon. pl. ii. fig. 8. 1861.
? *Glottidia antillarum*, Dall, l. c. vi. p. 159.
Martinique, W. I.

3. ? GLOTTIDIA AUDEBARTI, Broderip.

- Lingula audebardi*, Brod. P. Z. S. p. 125. 1833. Sby. Thes.
Conch. i. p. 392, pl. 67, fig. 5.
Lingula audebardi, Rve. Conch. Icon. pl. i. fig. 5.
? *Glottidia audebardi*, Dall, l. c. p. 159.
Bay of Guayaquil.

4. GLOTTIDIA PALMERI, Dall.

- Glottidia (albida var.?) Palmeri*, Dall, Am. Journ. Conch.
vii. p. 77. 1871.
Head of the Gulf of California.

5. GLOTTIDIA PYRAMIDATA, Stimpson.

- Lingula pyramidata*, Stimps. Am. Journ. Sci. and Arts,
xxxix. p. 444. 1860. Morse, Am. Nat. iv. p. 314, figs.
76-78. 1870.
Glottidia pyramidata, Dall, Am. Journ. Conch. vi. p. 158.
1870.
North and South Carolina.

6. ? GLOTTIDIA SEMEN, Broderip.

- Lingula semen*, Brod. P. Z. S. p. 125. 1833. Sby. Thes.
Conch. i. p. 392, pl. 67, fig. 11.
? *Glottidia semen*, Dall, l. c. vi. p. 159. 1870.
Isle of La Platta, W. Columbia.