

NARRATIVE OF A SURVEY
OF THE
INTERTROPICAL AND WESTERN
COASTS OF AUSTRALIA.

PERFORMED BETWEEN
THE YEARS 1818 AND 1822.

BY
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WITH
AN APPENDIX,
CONTAINING
VARIOUS SUBJECTS RELATING TO HYDROGRAPHY AND
NATURAL HISTORY.



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IN TWO VOLUMES,
ILLUSTRATED BY PLATES, CHARTS, AND WOOD-CUTS.



VOL. II.



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JOHN MURRAY, ALBEMARLE-STREET.

MDCCCXVII.

MOLLUSCA.

BY JOHN EDWARD GRAY, Esq., F.G.S.

I. CONCHOPHORA.

1. SOLENUMYIA AUSTRALIS.

Solemya Australis, *Lam. Hist.* v. 489.

Mya marginipectinata, *Péron and Lesueur.*

2. MACTRA ABBREVIATA? *Lam. Hist.* v. 477. n. 20.

Icon. ———

This collection contains a considerable number of specimens of a shell agreeing with the short specific character given by Lamarck of the above; but as it has not been figured, I have referred to it with a mark of doubt. The shells are rather solid, white, or white variegated with purple, with numerous concentric wrinkles, which are more distinct nearer the margin; the umbones, covered with a thin pale periostraca, nearly smooth and polished, with a small purple spot, the inside white, with the disk and posterior slope purple; the anterior and posterior slopes distinct, the lunule and escutcheon deeply and distinctly sulcated; length fourteen-tenths of an inch; height one inch.

3. MACTRA OVALINA, *Lam. Hist.* v. 477.

This shell is nearly of the same shape as the last, but the anterior slope is rounded and circumscribed, and the posterior only marked by a raised line in the periostraca. The shell is thin, white; with a pale brown and deeply grooved escutcheon.

4. SOLEN TRUNCATUS, *Wood. Conch.*

Solen Ceylonensis, *Leach, Zool. Misc.* i. 22. tab. 7.

Solen vagina, *b. Lam. Hist.* v. 451.

Icon. Wood, Conch. t. 26. f. 3. 4. *Ency. Method.* t. 222. f. 1.

5. *CARDIUM TENUICOSTATUM*, *Lam. Hist.* vi. 5.

Icon. ———

The shell when perfect is white, with rose-coloured umbones; the rose colour is often extended down the centre of the shell, forming concentric zones.

6. *LUCINA DIVARICATA*, *Lam. Hist.* v. 541.*Tellina divaricata*, *Gmel. Sys. Nat.* i. 3241.Icon. *Chemn. Conch.* vi. 134. t. 13. f. 129.7. *VENERUPIS GALACTITES*, *nob.**Venus galactites*, *Lam. Hist.* v. 599.

Icon. ———

The fact of Lamarck having placed in the genus *Venus* this shell, which a modern conchologist has considered as a variety of *Venerupis perforans*, shews the very great affinity that exists between those genera.

8. *VENUS FLAMMICULATA?* *Lam. Hist.* v. 605.

Icon. ———

This shell is pale yellowish, with irregular, large, distinct, concentric ridges, and distinctly radiated striæ; the umbones smooth, polished, orange-yellow; the lozenge lanceolate, purple; the inside golden-yellow; the anterior and posterior dorsal margins purple.

9. *VENUS TESSELLATA*, (n. s.)

Testa ovato-oblonga, albida, lincis purpureis angulatis picta; sulcis concentricis, ad latus posteriorem lamellatis; marginibus integerrimis.

Icon. ———

Shell ovate-oblong, white, polished, with rows of square purple spots, forming regular lines, with the points directed toward the back of the shell; covered with many distinct, nearly equal, concentric, smooth ridges; the front part of the ridges somewhat elevated, thin, hinder part distinctly lamellar and much elevated: the lunule subulate, lanceolate; the edge quite entire; umbones with a purple spot; inside white, except on the anterior and posterior dorsal edges, which are purple; length eight-tenths, height six-tenths of an inch.

63. MUREX ADUSTUS? *Lam. Hist.* vii. 162.
 Icon. *Seba. Mus.* iii. t. 77. f. 9. 10. *Martini Conch.* iii. t. 105.
 f. 990, 991.

This shell agrees very well with the description of Lamarck, except that the whole edge of the mouth is of a fine rose-red colour.

64. TRITONIUM TRANQUEBARICUM, n.
 Triton Tranquebaricum, *Lam. Hist.* vii. 189.
 Icon. *Ency. Méth.* t. 422. f. 6.

65. TRITONIUM AUSTRALE, n.
 Triton Australe, *Lam. Hist.* vii. 179.
 Murex Tritonium Australe, *Chemn. Conch.* xi.
 Icon. *Chemn.* xi. t. 194. f. 1867, 1868.

66. RANELLA LEUCOSTOMA, *Lam. Hist.* vii. 150.
 Icon. ———

This shell is very like *Triton Scobinator*, Lam.; and the varices, like it, neither form a complete series, nor are they alternate, so that it does not agree exactly with the characters of either genus.

67. FUSUS VERRUCOSUS, n.
 Murex verrucosus, *Gmel. Syst. Nat.* 3557.
 Icon. *Martini.* iv. t. 146. f. 1349, 1356.

68. CONUS ACHATINUS, *Brug. Dict.* n. 66. *Lam. Hist.* vii. 480.
 Icon. *Chemn.* x. t. 142. f. 1317. *Ency. Méthod.* t. 330. f. 6.

69. CONUS PUNCTURATUS, *Brug. Dict.* n. 35. *Lam. Hist.* i. 460.
 Icon. *Ency. Méth.* t. 322. f. 9.

70. CONUS MAURUS, (n. s.)
*Testa turbinata coronata albida zonis duabus fuscis, spirâ
 subdepressâ mucronatâ, fauce albidâ zonis duabus pur-
 pureis notatâ.*
 Icon. ———

Shell very plain, top-shaped, crowned, and whitish, with two brown bands; spire rather depressed; crowned, blunt; the epi-

dermis pale greenish-brown; the inside white, with two broad blue bands, in the front of which is enclosed the canal; axis one and a half, diameter one inch.

71. *CYPRÆA ARABICA*, *Gmel. Syst. Nat.* i. 3398. *Lam. Hist.* vii. 378. *Gray, Zool. Jour.* i. 76.

Icon. *Lister. Conch.* t. 658. f. 3. *Martini.* i. t. 31. f. 328.
Ency. Méth. t. 352 f. 1, 2.

72. *CYPRÆA TIGRIS*, *Gmel. Syst. Nat.* i. 3408. *Lam. Hist.* vii. 382. *Gray, Zool. Jour.* i. 367.

Icon. *Lister. Conch.* t. 682. f. 29. *Martini* i. t. 24. f. 232—
234. *Ency. Méth.* t. 353. f. 3.

The shells of this species that are found on the North-east Coast of Australia are generally of a very pale colour, with only scattered markings.

73. *CYPRÆA MAURITIANA*, *Gmel. Syst. Nat.* 3407. *Lam. Hist.* vii. 377. *Gray, Zool. Jour.* i. 79.)

Icon. *Lister. Conch.* t. 703. f. 52. *Martini* i. t. 30. f. 317-
319. *Ency. Méth.* t. 350. f. 2. a. b.

74. *CYPRÆA LYNX*, *Gmel. Syst. Nat.* 3409. *Lam. Hist.* vii. 388.
Gray, Zool. Jour. i. 151.

Cypræa Venelli, *Gmel.* 3402.

Cypræa Squalina, *Gmel.* 3420.

Icon. *Lister. Conch.* t. 683. f. 30. *Martini* i. t. 23. f. 230,
231. *Ency. Méth.* t. 355. f. 8. a. b.

75. *CYPRÆA ANNULUS*, *Gmel. Syst. Nat.* 3415. *Lam. Hist.* vii. 402. *Gray, Zool. Jour.* i. 494.

Icon. *Martini Conch.* i. t. 24. f. 239. 240. *Ency. Méth.*
t. 356. f. 7.

76. *CYPRÆA OBVELATA*, *Lam. Hist.* vii. 401. *Gray, l. c.* i. 493.
Icon. —————

77. *CYPRÆA MONETA*, *Gmel. Syst. Nat.* 3414. *Lam. Hist.* vii. 401. *Gray, Zool. Jour.* i. 492.