

XVII. — CATALOGUE OF THE BURSAE IN 'S RIJKS MUSEUM
VAN NATUURLIJKE HISTORIE,
BY CH. BAYER.

Since the publication in 1908 of the „Catalogue systématique des Mollusques” by R. HORST and M. M. SCHEPMAN, the collection of 's Rijks Museum van Natuurlijke Historie has attained a not unimportant extension, so that since long this catalogue is no more up to date. After the revision of the genus *Bursa*, which resulted into the addition to the collection of a great deal of hitherto unidentified material and which brought about several changes in the catalogue, it seemed necessary to me, to edit a new catalogue of this genus, and it is my intention to publish such a list every time when a new part of the collection has been revised.

In order to give this catalogue a more general value, I have included as far as possible, all the true species of *Bursa* which are mentioned in literature, also those of which we do not possess any material in the Leyden Museum, moreover I added the commonly used synonyma. In the classification of the species I followed principally the systems proposed by A. H. COOKE and W. H. DALL.

All the revised material is written on a card-catalogue, in which the specimens from the same locality and collector, as far as they are kept dry, bear the same letter; concerning the material preserved in liquor the number of the bottle is given instead. I have inserted these letters or numbers in the list below, followed by a number indicating how many specimens we possess from that locality. After the localities the names of the collectors are mentioned, in cases when the locality or the name of the collector is unknown I have put an interrogation mark.

Genus *Bursa* Bolten, 1798.

Ranella Lamarck, 1812.

I. Sub-genus *Bursa*.

Sect. *Bursa*.

B. albivaricosa Reeve.

Murex Rana (pars) LINNÉ. Syst. nat., ed. 12, p. 1216, 1767. — LINNÉ.

Martini. Conch. Cabinet, vol. 4, pl. 133, fig. 1270—1271, 1780.

Ranella albivaricosa Reeve. Proc. Zool. Soc. London, p. 136, 1844. —

Conch. Icon., *Ranella*, sp. 2, pl. 1, fig. 2, 1844.

a. 3. Indian Ocean,? — b. 3. Tjilatjap (Java), OVERDIJK. — c. 7.

Badjoa (Celebes), MOENS. — d. 5. Ambon, HOEDT. — e. 1. Timor, ZIJNEN WARTEL. — f. 5. Philippines, ? — g. 1. Tandjong Priok (Java), P. BUITENDIJK. — h. 1. Japan, ? — i. 1. Fak-Fak (N. Guinea), PALMER v. D. BROEK. — j. 2. Madura, from E. F. JOCHIM's collection. — k. 1. Nossi-Bé, POLLEN & v. DAM. — l. 1. Tapatoean (Atjeh), H. E. WEMPE. — m. 4. Cheribon, J. C. B. HÜNER. — n. 2. Medan, J. C. B. HÜNER.

B. spadicea Montfort.

Buffo spadiceus Montfort. Conchyl. syst., vol. 2, p. 575, 1810.

Murex crassus Dillwyn. Descr. Cat. rec. Shells, vol. 2, p. 692, No 23, 1817.

Ranella granulata Lamarck. Anim. s. Vert., éd. Desh., vol. 9, p. 547, No 8, 1843.

a. 4. Indian Ocean, ? — b. 3. Paramaribo, W. C. v. HEURN. — c. 1. Galibi (West Indies), H. TEN KATE. — d. 24. Mouth of the Suriname river, W. C. v. HEURN.

B. crumena Lamarck.

Murex Rana (pars) Linné. Syst. Nat., ed. 12, p. 1216, 1767.

Ranella crumena Lamarck. Anim. s. Vert., vol. 7, p. 151, 1822. — Anim. s. Vert., éd. Desh., vol. 9, p. 544, No 5, 1843.

Ranella granulata Blainville (non Lamarck). Man. de Malacologie, p. 18, fig. 2, 1825.

Ranella elegans Kiener (non Beck). Icon. coq. viv., Ranelle, p. 4, No 2, pl. 3, fig. 1, 1843.

a. 6. Indian Ocean, ? — b. 2. Moluccas, ? — c. 2. Tapatoean (Atjeh), K. E. WEMPE. — d. 4. Menado (Celebes), from E. F. JOCHIM's collection. — e. 3. Boesak (N. Celebes), ? — f. 1. Belawan (Deli), P. BUITENDIJK. — g. 1. Durban, P. BUITENDIJK. — h. 1. Hongkong, E. DEYROLLE. — 849. 1. Indian Ocean, MACKLOT.

B. fijiensis Watson.

Ranella fijiensis Watson. Prelim. Report, pt. 7. Journ. Linn. Soc. London, vol. 15, p. 270, 1880.

B. foliata Broderip.

Ranella foliata Broderip. Zool. Journ., vol. 2, p. 199, pl. 11, suppl. fig. 1, 1826.

Ranella crumena Kiener (non Lamarck). Icon. coq. viv., Ranelle, p. 3, No 1, pl. 2, fig. 1, 1843.

a. 1. Zanzibar, DERX.

B. margaritula Deshayes.

Ranella margaritula Deshayes. Mollusques Voyage Indes-Or. de Bélanger, pl. 3, fig. 13—15, 1835.

Ranella neglecta Sowerby. Proc. Zool. Soc. London, p. 52, 1841. — Conch. ill., *Ranella*, fig. 22, 1841.

a. 4. Indian Ocean,? — b. 3. Amboyna, HOEDT. — c. 2. North Timor, ZIJNEN WARTEL. — d. 2. China, DAMON. — e. 1. Amboyna, from E. F. JOCHIM's collection.

B. gnorima Melvill.

Bursa gnorima Melvill. Ann. & Mag. Nat. Hist., vol. 1, ser. 9, p. 138, pl. 4, fig. 1, 1918.

B. nana Sowerby.

Ranella nana Sowerby. Proc. Zool. Soc. London, p. 51, 1841. — Conch. ill., *Ranella*, pl. 2, fig. 6, 1841.

var. *albifasciata* Sowerby.

Ranella albifasciata Sowerby. Proc. Zool. Soc. London, p. 52, 1841. — Conch. ill., *Ranella*, fig. 14, 1841.

B. spinosa Lamarck.

Murex Rana var. *B.* Linné. Syst. Nat., ed. 12, No 527, 1767.

Bursa bufonia Boltén. Mus. Bolt., p. 129, No 1615 bis, 1798.

Ranella spinosa Lamarck. Anim. s. Vert., éd. Desh., vol. 9, p. 545, No 6, 1843.

Bursa Suensonii Mörch. Cat. Conch. Yoldi, 1, p. 106, 1852.

Gyrineum echinatum Link. Mörch. Cat. Conch. Yoldi, 1, p. 107, 1852.

a. 3. Indian Ocean,? — b. 2.?, from HOOGEVEEN's collection. — c. 1. Aden, H. STRENGERS & L. E. NOBEL.

B. subgranosa Beck.

Ranella subgranosa Beck. Sowerby. Proc. Zool. Soc. London, p. 52, 1841. — Conch. ill., *Ranella*, fig. 18, 1841.

Ranella Beckii Kiener. Icon. coq. viv., *Ranella*, p. 5, No 3, pl. 4, fig. 1, 1843.

a. 1. Amoy (China), G. SCHLEGEL. — b. 1.?,?

var. *elegans* Beck.

Ranella elegans Beck. Sowerby. Conch. ill., *Ranella*, fig. 17, 1841.

a. 3. Sumatra,? — 851. 1. Padang (Sumatra),? — c. 4. & d. 2. Madura, from E. F. JOCHIM's collection. — e. 2. Madura, Mangold. — f. 2. Aden, H. STRENGERS & L. E. NOBEL.

Sect. *Ranella*.

B. bergeri Sowerby.

Ranella bergeri Sowerby. Tapparone-Canefri. Faune malac. île Maurice, pp. 50, 51, 22, pl. 2, fig. 1, 2, 6, 17, 1881.

a. 1. Mauritius, E. DEYROLLE.

B. bufonia Gmelin.

Murex bufonius Gmelin. Syst. nat., t. 1, pars 6, p. 3534, No 32, 1790.

Ranella mammata Bolten. Mus. Bolt., p. 128, No 1657, 1798.

Ranella tuberosissima Reeve. Proc. Zool. Soc. London, p. 139, 1844. —
Conch. Icon., *Ranella*, sp. 39, pl. 7, fig. 39, 1844.

Bursa asperrima Dunker. Proc. Zool. Soc. London, p. 238, 1862. —
Nov. Conch., p. 57, No 62, pl. 19, fig. 3, 4.

Bursa Grayana Dunker. Proc. Zool. Soc. London, p. 238, 1862. —
Nov. Conch., p. 58, No 63, pl. 19, fig. 5, 6.

a. 3. Indian Ocean,? — b. 2. Amboyna, HOEDT. — c. 1. Timor, ZIJNEN WARTEL. — d. 1. Madura, from E. F. JOCHIM's collection. — e. 1. Amboyna, from E. F. JOCHIM's collection. — f. 1. Matoe-tocan,? — g. 1. Java, VOLTZ. — h. 1. Poeloe Pandjang (Simaloer), E. JACOBSON. — i. 1. Wetter Isl., K. SCHÄDLER. — j. 1. Boesak (N. Celebes),? — k. 4. Banda,? — l. 1. Nagasaki, P. BUITENDIJK.

var. *nobilis* Reeve.

Ranella nobilis Reeve. Proc. Zool. Soc. London, p. 137, 1844. —
Conch. Icon., *Ranella*, sp. 16, pl. 4, fig. 16, 1844.

a. 1. Amboyna, HOEDT.

var. *siphonata* Reeve.

Ranella siphonata Reeve. Proc. Zool. Soc. London, p. 138, 1844. —
Conch. Icon., *Ranella*, sp. 38, pl. 7, fig. 38, 1844.

a. 1. Amboyna, HOEDT. — b. 4. Timor, ZIJNEN WARTEL. — c. 1. Philippines,? — d. 1.?,? — 850. 2. Amboyna, FORSTEN. — f. 2. Amboyna, from E. F. JOCHIM's collection. — g. 1. Menado (Celebes), from E. F. JOCHIM's collection. — h. 1. Java, VOLTZ. — i. 1. Philippines, from TOBIAS' collection. — j. 3. Boesak (N. Celebes),? — k. 1. Nagasaki, P. BUITENDIJK. — l. 2. Lintido (Celebes), J. SEMMELINK. — m. 2. Madjene (Celebes), F. H. VERSCHOOR VAN NISSE. — n. 3. Wetter Isl., K. SCHÄDLER.

var. *venustula* Reeve.

Ranella venustula Reeve. Proc. Zool. Soc. London, p. 138, 1844. —
Conch. Icon., *Ranella*, sp. 37, pl. 7, fig. 37, 1844.

Sect. *Lampadopsis*.

B. cruentata Sowerby.

Ranella cruentata Sowerby. Proc. Zool. Soc. London, p. 51, 1841. —

Conch. ill., *Ranella*, pl. 2, fig. 5, 5*, 1841.

Ranella rugosa Sowerby. Proc. Zool. Soc. London, p. 53, 1841. —

Conch. ill., *Ranella*, fig. 7, 1841.

Ranella verrucosa Sowerby. Conch. ill., *Ranella*, pl. 6, fig. 20, 1841.

a. 1. Moluccas, ? — b. 1.?, from TOBIAS' collection. — c. 1. Wetter Isl., K. SCHÄDLER. — d. 1. Banda, ? — e. 1. Amboyna, from E. F. JOCHIM's collection.

var. *paulucciana* Tapparone-Canefri.

Ranella paulucciana Tapparone-Canefri. Bull. Soc. Mal. Ital., 2, p. 244, 1876.

a. 1. Mauritius, E. DEYROLLE.

var. *ranelloides* Reeve.

Triton ranelloides Reeve. Proc. Zool. Soc. London, p. 111, 1844. —

Conch. Icon., *Triton*, sp. 10, pl. 3, fig. 10 a, b, 1844.

a. 1. Japan, P. F. VON SIEBOLD.

var. *rhodostoma* Beck.

Ranella rhodostoma Beck. Sowerby. Conch. ill., *Ranella*, pl. 3, fig. 10, 1841.

Ranella thomae d'Orbigny. Moll. île de Cuba, p. 164, pl. 23, fig. 23, 24, 1853.

a. 5. Curacao, A. J. v. KOOLWIJK. — b. 1. S. Thomas, F. v. CALKER. —

c. 2. Cape Verde Isl., SOWERBY & FULTON.

var. *tenuisculpta* Dautzenberg & Fischer.

Bursa (Lampas) ranelloides Reeve var. *tenuisculpta* Dautzenberg & Fischer. Résultats Camp. Scient., Monaco, fasc. 32, p. 36, pl. 2, fig. 15—18, 1906.

Sect. *Colubrellina*.

B. caelata Broderip.

Ranella caelata Broderip. Proc. Zool. Soc. London, p. 179, 1832.

Ranella semigranosa Kiener. Icon. coq. viv., *Ranella*, p. 19, No 13, pl. 11, fig. 2, 1843.

a. 2. Panama, Cuming.

B. calcipicta Dall.

Bursa (Lampadopsis) calcipicta Dall. Bull. Mus. Comp. Zool. Harvard, Cambridge, vol. 43, p. 320, 1908.

B. condita Gmelin.

Murex conditus Gmelin. Syst. Nat., p. 3565, No 174, 1790.

Colubraria granulata Schumacher. Essai nouv. syst., p. 251, 1817.

Ranella candidata Lamarck. Anim. s. Vert., éd. Desh., vol. 9, p. 542, No 3, 1843.

a. 2. Isl. of Annaa, Cuming.

B. granularis Bolten.

Tritonium granulare Bolten. Mus. Bolt., p. 127, No 1641, 1798.

Biplex rubicola Perry. Conch., pl. 5, fig. 5, 1811.

Ranella granifera Lamarck. Anim. s. Vert., vol. 7, p. 153, 1822.

Ranella semigranosa Lamarck (non Kiener). Anim. s. Vert., éd. Desh., vol. 9, p. 548, No 10, 1843.

a. 2. Tjilatjap (Java), OVERDIJK. — b. 4. Amboyna, HOEDT. — c. 14. Timor, WIENECKE & ZIJNEN WARTEL. — d. 2. Straits of Larantoea, J. SEMMELINK. — e. 1. Batjan, BERNSTEIN. — f. 6. Nossi-Bé, POLLEN & VAN DAM. — i. 8. Moluccas, from HOOGEVEEN's & TOBIAS' collections. — j. 5. Madura, from E. F. JOCHIM's collection. — k. 1. Natal, KRAUSS. — l. 1. Sangir Is., E. E. W. G. SCHRÖDER. — m. 1. ? — n. 1. Port Blair (Andaman Is.), from Worthington WILMER's collection. — o. 1. Doreh bay (N. Guinea), from E. F. JOCHIM's collection. — p. 1. Banda, ? — q. 1. Boesak (N. Celebes), ?

var. *corrugata* Perry.

Ranella corrugata Perry. Conch., pl. 5, fig. 1, 1811.

Ranella affinis Broderip. Proc. Zool. Soc. London, p. 179, 1832.

Ranella granifera Kiener (non Lamarck). Icon. coq. viv., Ranella, p. 16, No 11, pl. 11, fig. 1, 1843.

Bursa Cumingiana Dunker. Proc. Zool. Soc. London, p. 238, 1862. — Novit. Conch., p. 59, No 64, pl. 19, fig. 7, 8.

a. 3. Tjilatjap (Java), OVERDIJK. — b. 7. Amboyna, HOEDT. — c. 12. Timor, WIENECKE & ZIJNEN WARTEL. — d. 1. Larantoea (Flores), J. SEMMELINK. — e. 4. Samao Isl. (near Timor), H. TEN KATE. — f. 1. Port Blair (Andaman Is.), from Worthington WILMER's collection. — g. 6. Red Sea, RUYSSENAERS. — h. 1. Amboyna, from E. F. JOCHIM's collection. — i. 2. Madura, from E. F. JOCHIM's collection. — j. 1. Doreh bay (N. Guinea), from E. F. JOCHIM's collection. — k. 1. Boesak (N. Celebes), ? — l. 6. Wetter Isl., K. SCHÄDLER. — m. 1. Angola, ? — n. 1. Banda, ? — o. 1. Laboean Badjan (Simaloer), E. JACOBSON.

var. *livida* Reeve.

Ranella livida Reeve. Proc. Zool. Soc. London, p. 138, 1844. — Conch. Icon., Ranella, sp. 28, pl. 6, fig. 28, 1844.

Ranella Cubaniana d'Orbigny. Moll. île de Cuba, pp. 105, 368, pl. 23, fig. 24, 1853.

a. 1. Mauritius, E. DEYROLLE. — b. 1. Philippines, H. C. FULTON.
var. *ponderosa* Reeve.

Ranella ponderosa Reeve. Proc. Zool. Soc. London, p. 137, 1844. —
Conch. Icon., *Ranella*, sp. 14, pl. 3, fig. 14, 1844.

a. 2. Curacao, Epp.

B. pustulosa Reeve.

Ranella pustulosa Reeve. Proc. Zool. Soc. London, p. 137, 1844. —
Conch. Icon., *Ranella*, sp. 11, pl. 3, fig. 11, 1844.

a. 1. Cape Verde Is., SOWERBY & FULTON. — b. 1. Angola,?

II. Sub-genus *Aspa*.

Sect. *Aspa*.

B. marginata Gmelin.

Buccinum marginatum Gmelin. Syst. Nat., p. 3486, No 63, 1790.

Ranella laevigata Lamarck. Anim. s. Vert., vol. 7, p. 154, 1822.

a. 2. African coast, VERREAUX.

III. Sub-genus *Bufonaria*.

Sect. *Bufonaria*.

B. coriacea Reeve.

Ranella scrobiculata (juv.) Sowerby. Kiener. Icon. coq. viv., *Ranella*,
pl. 3, fig. 2, 1843.

Ranella coriacea Reeve. Proc. Zool. Soc. London, p. 137, 1844. —
Conch. Icon., *Ranella*, sp. 26, pl. 6, fig. 26, 1844.

a. 1. Panama,?

B. rubeta Bolten.

Murex lampas (pars) Linné. Syst. nat., ed. 12, p. 1216, 1767.

Tritonium rubeta Bolten. Mus. Bolt., p. 128, No 1645, 1798.

Tritonium bufo Bolten. Mus. Bolt., p. 128, No 1647, 1798.

Tritonium tuberosum Bolten. Mus. Bolt., p. 133, No 1676, 1798.

Lampas hians Schumacher. Essai nouv. syst., p. 252, 1817.

Triton lampas Lamarck. Anim. s. Vert., vol. 7, p. 180, 1822.

Tutufa caledonensis Jousseaume. Bull. Soc. Zool. France, vol. 6, p. 175
& 177, 1881.

a. 13. Indian Ocean, from DALEN's collection. — b. 2. Tjilatjap (Java),
OVERDIJK. — c. 1. Amboyna, HOEDT. — d. 1. North Halmaheira, BERN-
STEIN. — e. 1. Japan, P. F. VON SIEBOLD. — f. 4.?, from HOOGEVEEN's
collection. — 852. 1. Amboyna, FORSTEN. — h. 1. Waigeo Isl. (near
N. Guinea), BERNSTEIN. — i. 1. Straits of Larantoea, J. SEMMELINK. —
j. 1. Amboyna, from E. F. JOCHIM's collection. — k. 3. Banda, from E.
F. JOCHIM's collection. — l. 5. Madura, from E. F. JOCHIM's collection. —

m. 1. Menado, from E. F. JOCHIM's collection. — n. 1. Ternate, from E. F. JOCHIM's collection. — o. 6.?,? — p. 1. Boesak (N. Celebes),? — q. 1. Lasiching (Simaloer), E. JACOBSON. — r. 2. Patjitan (Java), from E. F. JOCHIM's collection. — s. 1. Aden, H. STRENGERS & L. E. NOBEL. — 853. 2. Indian Ocean, MACKLOT.

var. *bardeyi* Jousseaume.

Lampas bardeyi Jousseaume. Bull. Soc. Philomathique, Paris, ser. 8, t. 6, p. 100, 1894.

var. *gigantea* Smith.

Bursa (Tutufa) rubeta (Bolten) var. *gigantea* Smith. Journ. of Conch., London, vol. 14, p. 230, pl. 4, fig. 4, 5, 1914.

var. *lissostoma* Smith.

Bursa (Tutufa) rubeta (Bolten) var. *lissostoma* Smith. Journ. of Conch., London, vol. 14, p. 230, pl. 4, fig. 3, 1914.

var. *tenuigranosa* Smith.

Bursa (Tutufa) rubeta (Bolten) var. *tenuigranosa* Smith. Journ. of Conch., London, vol. 14, p. 231, pl. 4, fig. 6, 1914.

B. scrobiculator Linné.

Murex scrobiculator Linné. Syst. Nat., ed. 12, p. 1218, 1767.

Bufonaria pesleonis Schumacher. Essai nouv. syst., p. 252, 1817.

a. 5. Mediterranean,? — b. 1. Ionic Isles,? — c. i.?, FRANK.

Sect. *Crossata*.

B. californica Hinds.

Ranella californica Hinds. Moll. from voyage of „Sulphur”, p. 12, pl. 2, fig. 4, 5, 1844.

Ranella thersites Redfield. Ann. Lyc. N. Y., 4, p. 166, pl. 10, fig. 6, 1848.

a. 1. California, H. C. FULTON. — b. 1. San Pedro (California), J. ZETEK.

var. *ventricosa* Broderip.

Ranella ventricosa Broderip. Proc. Zool. Soc. London, p. 178, 1832.

Ranella tenuis Potiez & Michaud. Catal. Moll. ou Coquilles Mus. Douai, 1, p. 426, pl. 34, fig. 1, 2, 1838.

a. 2. Peru, CUMING.

Species incertae sedis.

Ranella epitrema Tenison—Woods. Proc. Roy. Soc. Tasmania, p. 133, 1876.

Ranella jucunda Adams. Proc. Zool. Soc. London, p. 70, 1853.

Ranella luteostoma Pease. Proc. Zool. Soc. London, p. 397, 1860.

Ranella producta Pease. Proc. Zool. Soc. London, p. 397, 1860.