

## Mollusca of New Caledonia

*Philippe BOUCHET, Virginie HEROS, Philippe MAESTRATI, Pierre LOZOUET,  
Rudo von COSEL, Delphine BRABANT  
Muséum National d'Histoire Naturelle, Paris  
malaco@mnhn.fr*

The first record of a land mollusc (*Placostylus fibratus* (Martyn, 1784)) from New Caledonia can unequivocally be traced to the voyage of Cook that discovered the island in 1774. By contrast, the marine molluscs of New Caledonia ironically remained out of reach to European natural history cabinets until well into the 19th century. New Caledonia remained untouched by the circumnavigating expeditions of the 1830-1840s onboard, e.g., the "Astrolabe", the "Zélée" or the "Uranie". Seashells may have been collected in New Caledonia by whalers and other merchants in search of sandalwood or bêche-de-mer, and then traded, but by the time they reached European conchologists, all indication of their geographical origin had faded away. It is impossible to tell whether Indo-West Pacific species originally described from localities such as "Mers du Sud" or "Southern Seas" were originally collected in, e.g., Fiji, Tahiti, Australia or New Caledonia. However, even if New Caledonian shells may have arrived on the European market or in cabinets, it must have been in very small amount, as such an emblematic species of the New Caledonia molluscan fauna as *Nautilus macromphalus* was not named until 1859. In fact, it was not until Xavier Montrouzier set foot in New Caledonia that the island was placed on the map of marine conchology. From there on, three major periods can be recognized in the history of New Caledonia marine malacology.

### The era of the missionaries: a hotspot of discoveries

Xavier Montrouzier was a catholic priest, the first of a remarkable group of missionaries that pioneered the exploration of the New Caledonia marine and non-marine biota. First settled in 1847 at Balade on the north-east coast of the main island, Montrouzier later moved to Art, in the Belep Islands, just north of New Caledonia, where he collected not only shells but also plants and insects. To break his isolation, he linked with Souverbie, the director of the natural history museum of Bordeaux. Between 1850 and 1879, their fruitful collaboration generated no less than 27 papers published in *Journal de Conchyliologie*, containing the descriptions of some 200 land and freshwater molluscs, often illustrated with exquisite, hand-painted colour plates. Montrouzier's example was followed by more marist fathers, among others Pierre Lambert, Benjamin Goubin, Pierre Rougeyron and Lubin Gaide. Based on their collects, Jean Hervier, procurator at the Service des Missions d'Océanie, in France, published between 1896 and 1899, also in *Journal de Conchyliologie*, a dozen papers on selected gastropod families (Turridae, Mitridae, Columbelloidea and Triphoridae). After Hervier, the catholic connection continued through Goubin, missionary at Gaitcha (Lifou) between 1878 and 1913, with specimens ending up in the collection of Paris-based Philippe Dautzenberg. The catholic-protestant religious rivalry in Lifou was echoed by a malacology rivalry. James and Emma Hadfield, of the London Missionary Society, based at Chépénéhé (Lifou), started to send their collects to James Cosmo Melville and Robert Standen in Great Britain, and were the source of their series of papers in *Journal of Conchology* (1895-1897, 1899).

In parallel with the achievements of the missionaries, it would be unfair not to highlight the work of another category of local collectors. When the city of Nouméa was founded and the convict settlement was established, more amateur naturalists emerged from among government officers, the military or traders, among whom Edouard-Auguste Marie. The center of their collecting activity was rather the southern part of the west coast of New Caledonia (Bay of St Vincent; Baie du Sud [now Baie de Prony]; Nou I.). Specimens reached Hippolyte Crosse in Paris and nearly every issue of the *Journal de Conchyliologie* between 1858 and 1898 containing a paper by him on New Caledonia molluscs.

Overall the results of this zealous collecting by missionaries and government administrators was a golden age for the malacology of New Caledonia. From a blank on the map in 1850 to the epoch-making papers by Crosse, Hervier and Melvill & Standen, so much was accomplished that Henri Fischer argued in 1901 that "Our colleagues abroad recognize that the mollusc fauna of New Caledonia and its dependencies is currently the best known region among the whole of Oceania". Goubin passed away in Nathalo (Lifou) in 1916, and this was the end of the fecund line of missionaries-malacologists.

### **Backwater again**

By contrast, comparatively little happened in the following decades, but the work of Jean Risbec definitely makes an exception and represents a shift in scientific practice. Until then, New Caledonia-based collectors were sending their material to European erudites who never set foot in New Caledonia. Jean Risbec was teaching maths at Lycée Lapeyrouse in Nouméa and studied nudibranchs during his spare time, for which he was awarded a doctorate at the Sorbonne (Risbec 1928). The change in scientific practice is also exemplified by a shift from conchology (the missionary era) to malacology and biology. Risbec stayed in Nouméa until the early 1950s and published some 30 papers dealing with the anatomy and biology of intertidal and shallow subtidal molluscs. Risbec also established contacts with French and Australian zoologists, notably Pruvot-Fol and Bassett-Hull, who appear to have been the first non-resident malacologists collecting their own material New Caledonia; Pruvot-Fol collected nudibranchs at Ile des Pins in the late 1920s (see Pruvot-Fol 1930) and Basset-Hull appears to have collected at Lifou and on Grande-Terre in the 1930s material that was published by Iredale (Iredale 1940).

### **Modern times**

Modern times in the history of malacology in New Caledonia can be rather precisely dated to 1978, the year the *Association Conchyliologique de Nouvelle-Calédonie* was founded, or to 1984, the year Bertrand Richer de Forges started his explorations of the marine fauna of New Caledonia. The cradle of the foundation of the *Association* was the furor for the melanistic cowries of New Caledonia (Pierson & Pierson 1975, Chatenay 1977) The society launched the journal *Rossiniana*, which steered away from the description of new species, but published new records in the collectable families and promoted amateur expertise in such families as the cones (Estival 1981) or the miters (Arnaud *et al.* 2002).

Academic exploration first focussed on deep water, with a series of dredging and trawling expeditions, essentially using Nouméa-based research vessels (*Vauban*, *Coriolis*, and later *Alis*) and occasionally also larger research vessels on temporary assignment to the South Pacific (*Jean-Charcot*, *Suroit*, *Cyana*). The saga of what has been called the "MUSORSTOM expeditions" is told by Bertrand Richer de Forges elsewhere. These 20 years were another golden age for marine zoological exploration in general, and malacology in particular. Our MNHN team has been involved closely in the work at sea, in the processing and sorting of the material, in coordinating a network of professional and non-professional taxonomists, and in editing the resulting publications. The results, which read like a Who's Who in the world of marine molluscan taxonomy, have appeared in several volumes of the *Résultats des Campagnes MUSORSTOM*, later *Tropical Deep-Sea Benthos* specially dedicated to molluscs (Crosnier & Bouchet 1991, Bouchet 1995, Bouchet & Marshall 2001), as well as in numerous articles in malacological and other journals (e.g., Geiger, 2006; Hadorn & Fraussen, 2005; Kool, 2004; Snyder & Bouchet, 2006; Vilvens & Heros, 2006; Valdes 2002). The coral reefs and other coastal environments were the subject of intensive sampling specifically for molluscs at three sites: Koumac (west coast), Touho (east coast), and Lifou (Loyalty Islands), each representing some 500 day-persons in the field and the collecting and sorting of over 100,000 specimens. These expeditions generated new knowledge on the composition and taxonomic identity of the marine mol-

lucos of New Caledonia (e.g., Rudman, 1995; Boyer, 2003; Garcia, 2004; Taylor & Glover, 2005; Vilvens & Heros, 2005) and, perhaps more importantly, changed our perception of the magnitude of tropical molluscan species richness (Bouchet *et al.*, 2002).

### Conclusion and Perspectives

One hundred years after Henri Fischer's statement on the quality of the New Caledonia mollusc inventory, it can safely be affirmed that, as a result of the recent sampling programs, both in shallow and in deep-water, no other South Pacific island group has been so intensively surveyed as New Caledonia. However, the question "How many species" still remains unanswered.

One lesson from the Koumac-Touho-Lifou study is that a 5-30,000 hectares coastal site in New Caledonia has in the order of 2,600-3,100 species of molluscs, and extrapolations from the cumulation curve indicate a range of 3,200-4,000 species potentially present at each site. Despite the intensity of the collecting effort, 28.5% of the species are represented only by empty shells, suggesting that the real richness of many soft-bodied marine taxa is probably underestimated in many surveys. Even more unexpectedly spatial heterogeneity is high, with only 21% of the total species shared by all three sites. This reflects the inaccuracy of any other survey of small benthic invertebrates. The second lesson is that most species are rare and small: at the Koumac site, 20% are represented by single specimens, and 48% are represented by five specimens or less. One-third have an adult size smaller than 4 mm, and macromolluscs larger than 40 mm account for only 8% of the total fauna. "Specialist" families are the most speciose, with the "Turridae" s.l. (ca. 280 species per site), Triphoridae (170), Eulimidae (140), Pyramidellidae (120) and Cerithiopsidae (100) together accounting for 37% of gastropod richness. The most speciose bivalve families are the Galeommatidae s.l. (ca. 60 species per site), Veneridae and Tellinidae (50 each). If we stretch our neck from these results, it seems reasonable to speculate that the coral reefs (s.l.) of New Caledonia are probably home to 8-10,000 species of marine molluscs.

A still more intimidating picture emerges when the deep-sea component is brought into consideration. The shallow-water (i.e. from less than 100 meters) turrids from Koumac-Touho-Lifou represent a cumulated total of 504 species actually documented, and an estimated actual total of 690 species. However, examination of the complete dataset from 0 to 3,700 m has revealed a shocking 1,726 turrid species actually documented, with Jack2 estimator placing the actual number as high as 3,058 species (Bouchet, Sysoev & Lozouet, 2004).

Admittedly, turrids are especially diversified in the deep sea and, based on our dataset, it would probably not be appropriate to extrapolate that the deep-sea mollusc fauna of New Caledonia is 2.5 times as rich as its shallow-water fauna. However, our sampling is barely adequate only for the 200-1,200 m range, and very inadequate below 1,500 meters. Even within the 200-1,200 m interval, and even in areas that have already been sampled, every new cruise returns with species not collected before. All in all, the magnitude of the richness of the marine mollusc fauna of New Caledonia is probably in the order of 30-40,000 species. Of these, maybe 75% have now been collected at least once, 10% have been recorded in the literature at least once (under a correct or incorrect name) and 50-80% are undescribed.

### REFERENCES

- ARNAUD, J. P., C. BERTHAULT, R. JEANPIERRE, J. C. MARTIN & P. MARTIN, 2002. *Costellariidae et Mitridae de Nouvelle-Calédonie*. Association Française de Conchyliologie.
- BOUCHET, P. 1995 (ed.). Résultats des Campagnes MUSORSTOM, Volume 14. *Mémoires du Muséum national d'Histoire naturelle* 167: 1-654.
- BOUCHET, P., P. LOZOUET, P. MAESTRATI & V. HEROS, 2002. Assessing the magnitude of species richness in tropical marine environments: exceptionally high numbers of molluscs at a New Caledonia site. *Biological Journal of the Linnean Society* 75: 421-436.

- BOUCHET, P. & B. MARSHALL (eds), 2001. Tropical Deep-Sea Benthos, Volume 22. *Mémoires du Muséum national d'Histoire naturelle* **185**: 1-406.
- BOUCHET, P., A. SYSOEV & P. LOZOUET, 2004. An inordinate fondness for turrids. *Molluscan Megadiversity: Sea, Land and Freshwater. World Congress of Malacology (Perth, Western Australia, 11-16 July 2004), Abstracts*: 12.
- BOYER, F., 2003. The Cystiscidae (Caenogastropoda) from upper reef formations of New Caledonia. *Iberus* **21**: 241-272.
- CHATENAY, J. M., 1977. *Porcelaines niger et rostrées de Nouvelle-Calédonie*. Published by the author, Nouméa. 109 pp.
- CROSNIER, A. & P. BOUCHET (eds), 1991. Résultats des Campagnes MUSORSTOM, Volume 7. *Mémoires du Muséum national d'Histoire naturelle* **150**: 1-259.
- ESTIVAL, J. C., 1981. *Cônes de Nouvelle-Calédonie et du Vanuatu*. Nouméa, Editions du Cagou. 125 pp.
- GARCIA E., 2004. On the genus *Cycloscala* Dall, 1889 (Gastropoda: Epitoniidae) in the Indo-Pacific, with comments on the type species, new records of known species, and the description of three new species. *Novapex* **5**: 57-68.
- GEIGER, D., 2006. *Sasakiconcha elegantissima* new genus and new species (Gastropoda: Vetigastropoda: Anatomidae ?) with disjointly coiled base. *The Nautilus* **120**: 45-51.
- HADORN, R. & FRAUSSEN, K., 2005. Revision of the genus *Granulifusus* Kuroda & habe 1954, with description of some new species. *Archiv für Molluskenkunde* **134**: 129-171.
- IREDALE, T., 1940. Marine molluscs from Lord Howe Island, Norfolk Island, Australia and New Caledonia. *The Australian Zoologist* **9**: 429-443.
- KOOL, H.H., 2004. *Nassarius boucheti* spec. nov., a deep water species from the western Pacific (Gastropoda, Prosobranchia, Nassariidae). *Basteria* **67**: 135-139.
- PIERSON, R. & G. PIERSON, 1975. *Porcelaines mystérieuses de Nouvelle-Calédonie*. Published by the authors, Nouméa. 120 pp.
- PRUVOT-FOL, A., 1930. Diagnoses (provisaires) incomplètes des espèces nouvelles et liste provisoire des mollusques nudibranches recueillis par Mme Pruvot-Fol en Nouvelle-Calédonie (île des Pins). *Bulletin du Muséum d'Histoire naturelle*, ser. 2, **2**: 229-231.
- RISBEC, J., 1928. *Contribution à l'étude des nudibranches néo-calédoniens*. Faune des Colonies Françaises, 2(1). 322 pp.
- RUDDMAN, W.B., 1995. The Chromodorididae (Opisthobranchia: Mollusca) of the Indo-West pacific: further news species from New Caledonia and the *Noumea romeri* colour group. *Molluscan Research*, **16**: 1-43.
- SNYDER, M.A. & BOUCHET, P., 2006. New species and new records of deep-water *Fusolatirus* (Neogastropoda: Fasciolaridae) from the West Pacific. *Journal of Conchology*, **39**: 1-12.
- TAYLOR, J. & GLOVER, E., 2005. Cryptic diversity of chemosymbiotic bivalves: a systematic revision of worldwide *Anodontia* (Molluca: Bivalvia: Lucinidae). *Systematics and Biodiversity* **3**: 281-338.
- VALDÉS, A., 2002. A phylogenetic analysis and systematic revision of the cryptobranch dorids (Mollusca, Nudibranchia, Anthobranchia). *Zoological Journal of the Linnean Society* **136**: 535-636.
- VILVENS C. & HEROS, V., 2005. New species and new records of *Danilia* (Gastropoda: Chilodontidae) from the western pacific. *Novapex* **6**: 53-64.

## Checklist of species

Although there is a considerably historical body of literature on the marine molluscs of New Caledonia, many of the historical records cannot be used uncritically and this for several reasons: (1) The original identification may have been correct or incorrect; (2) the name then used may now be known to represent a species complex; (3) The original locality («New Caledonia») may or may not have been correct; (4) New species originally described from New Caledonia have often not been re-examined critically for decades, and their current status (valid, synonym) is not known. For all these reasons, the list presented below contains only those records (a) based on material issued from the recent sampling programs, with accurate locality data, and vouchered (mostly in MNHN); (b) identified by specialists, and thus based on the state-of-the-art of molluscan taxonomy.

### MOLLUSCA

#### GASTROPODA

##### ACTEONIDAE d'Orbigny, 1842

*Ringicula caledonica* Morlet, 1880

*Ringicula noumeensis* Morlet, 1880

##### ARCHIDORIDIDAE Bergh, 1891

*Guyonia flava* Risbec, 1928

*Phlegmodoris paagoumenei* Risbec, 1928

##### ARCHITECTONICIDAE Gray, 1850

*Granosolarium asperum* (Hinds, 1844)

*Heliacus areola* (Gmelin, 1791)

*Heliacus caelatus* (Hinds, 1844)

*Heliacus fenestratus* (Hinds, 1844)

*Heliacus geminus* Bieler, 1993

*Heliacus implexus* (Mighels, 1845)

*Heliacus infudibuliformis* (Gmelin, 1791)

*Heliacus trochoides* (Deshayes, 1830)

*Heliacus variegatus* (Gmelin, 1791)

*Psilaxis oxytropis* (A. Adams, 1855)

*Psilaxis radiatus* (Röding, 1798)

##### BAPTODORIDIDAE Odhner, 1926

*Baptodoris fongosa* Risbec, 1928

##### BUCCINIDAE Rafinesque, 1815

*Engina menkeana* (Dunker, 1860)

*Nassaria acuminata* (Reeve, 1844)

*Phos textilis* A. Adams, 1851

##### BURSIDAE Thiele, 1925

*Bufo naria perelegans* Beu, 1987

*Bufo naria thersites* (Redfield, 1846)

*Bursa condita* (Gmelin, 1791)

*Bursa cruentata* (G.B. Sowerby II, 1835)

*Bursa granularis* (Röding, 1798)

*Bursa lamarckii* (Deshayes, 1853)

*Bursa lucaensis* Parth, 1991

*Bursa rhodostoma* (Beck in G.B. Sowerby II, 1835)

*Bursa rosa* (Perry, 1811)

*Tutufa bubo* (Linné, 1758)

*Tutufa bufo* (Röding, 1798)

*Tutufa tenuigranosa* (Smith, 1914)

*Tutufa oyamai* Habe, 1973

*Tutufa rubeta* (Linné, 1758)

##### CALLIOSTOMATIDAE Thiele, 1924

*Calliostoma houbricki* Marshall, 1995

*Calliostoma richeri* Marshall, 1995

*Dactylastele poupineli* (Montrouzier, 1875)

*Laetiafundator fundatus* Marshall, 1995

**CERITHIIDAE Fleming, 1822**

*Ataxocerithium fucatum* Pease, 1861

*Cerithium balteatum* Philippi, 1838

*Cerithium citrinum* Sowerby, 1855

*Cerithium columna* Sowerby, 1834

*Cerithium echinatum* Lamarck, 1822

*Cerithium granosum* (Kiener)

*Cerithium lifuensis* Melvill & Standen, 1895

*Cerithium munitum* Sowerby, 1855

*Cerithium nodulosum* Bruguière, 1792

*Cerithium novaehollandiae* A. Adams, 1855

*Cerithium rostratum* Sowerby, 1855

*Cerithium salebrosum* Sowerby, 1855

*Cerithium scabridum* Philippi, 1848

*Cerithium spiculum* Hedley, 1899

*Cerithium tenellum* Sowerby, 1855

*Cerithium zonatum* (Wood, 1828)

*Gourmya gourmyi* (Crosse, 1861)

*Pseudovertagus aluco* (Linné, 1758)

*Pseudovertagus clava* (Gmelin, 1791)

*Pseudovertagus nobilis* (Reeve, 1855)

*Rhinoclavis articulata* (A. Adams & Reeve, 1854)

*Rhinoclavis aspera* (Linné, 1758)

*Rhinoclavis fasciata* (Bruguière, 1792)

*Rhinoclavis kochi* (Philippi, 1848)

*Rhinoclavis sinensis* (Gmelin, 1791)

*Rhinoclavis sordidula* (Gould, 1849)

*Varicopeza pauxilla* (A. Adams, 1854)

**COLUMBELLIDAE Suter, 1909**

*Aesopus spiculus* (Duclos, 1846)

*Euplica ionida* Duclos, 1840

*Euplica turturina* (Lamarck, 1822)

*Euplica varians* (Sowerby, 1847)

*Matanachis acleonta* (Duclos, 1840)

*Mitrella albina* (Kiener, 1841)

*Mitrella baculus* (Reeve, 1859)

*Mitrella conspersa* (Gaskoin, 1851)

*Mitrella goubini* (Hervier, 1899)

*Mitrella ligula* (Duclos, 1840)

*Mitrella nympa* (Kiener, 1841)

*Mitrella plurisulcata* (Reeve, 1859)

*Pyrene flava* (Bruguière, 1779)

*Zafrona isomella* (Duclos, 1840)

**CONIDAE Fleming, 1822**

*Conus acutangulus* Lamarck, 1810

*Conus ammiralis* Linné, 1758

*Conus arenatus* Hwass, 1792

*Conus articulatus* Sowerby, 1873

*Conus aulicus* Linné, 1758

*Conus aureus* Hwass, 1792

*Conus auricomus* Hwass, 1792

*Conus balteatus pigmentatus* A. Adams & Reeve, 1848

*Conus bandanus* Hwass, 1792

*Conus betulinus* Linné, 1758  
*Conus bougei* Sowerby, 1907  
*Conus bullatus* Linné, 1758  
*Conus cabritii* Bernardi, 1858  
*Conus canonicus* Hwass, 1792  
*Conus capitaneus* Linné, 1758  
*Conus catus* Hwass, 1792  
*Conus chaldeus* Röding, 1798  
*Conus cinereus* Hwass, 1792  
*Conus circumactus* Iredale, 1939  
*Conus coccineus* Gmelin, 1791  
*Conus coelinae* Crosse, 1858  
*Conus connectens* A. Adams, 1855  
*Conus consors* Sowerby II, 1833  
*Conus coronatus* Gmelin, 1791  
*Conus crocatus* Lamarck, 1810  
*Conus cylindraceus* Broderip & Sowerby, 1830  
*Conus distans* Hwass, 1792  
*Conus dusaveli* (Adams H, 1872)  
*Conus ebraeus* Linné, 1758  
*Conus eburneus* Hwass, 1792  
*Conus emaciatius* Reeve, 1849  
*Conus figulinus* Linné, 1758  
*Conus flavidus* Lamarck, 1810  
*Conus floccatus* Sowerby, 1839  
*Conus floridulus* A. Adams & Reeve, 1848  
*Conus frigidus* Reeve, 1848  
*Conus fulgetrum* Sowerby, 1834  
*Conus generalis* Linné, 1767  
*Conus geographus* Linné, 1758  
*Conus glans* Hwass, 1792  
*Conus imperialis* Linné, 1758  
*Conus kermadecensis* Iredale, 1913  
*Conus lamberti* Souverbie, 1877  
*Conus leopardus* Röding, 1798  
*Conus legatus* Lamarck, 1810  
*Conus lienardi* Bernardi & Crosse, 1861  
*Conus lithoglyphus* Hwass, 1792  
*Conus litteratus* Linné, 1758  
*Conus luteus* Sowerby, 1833  
*Conus magnificus* Reeve, 1843  
*Conus magnus* Linné, 1758  
*Conus marmoreus* Linné, 1758  
*Conus miles* Linné, 1758  
*Conus miliaris* Hwass, 1792  
*Conus mitratus* Hwass, 1792  
*Conus moluccensis* Küster, 1838  
*Conus monachus* Linné, 1758  
*Conus moreleti* Crosse, 1858  
*Conus muriculatus* Sowerby, 1833  
*Conus musicus* Hwass, 1792  
*Conus mustelinus* Hwass, 1792  
*Conus nigropunctatus* Sowerby II, 1857  
*Conus nussatella* Linné, 1758  
*Conus obscurus* Sowerby, 1833

*Conus omaria* Hwass, 1792  
*Conus optimus* (Sowerby, 1913)  
*Conus pertusus* Hwass, 1792  
*Conus planorbis* Born, 1778  
*Conus quercinus* Solander in Lightfoot, 1786  
*Conus rattus* Hwass, 1792  
*Conus retifer* Menke, 1829  
*Conus richeri* Richard & Moolenbeek, 1988  
*Conus sanguinolentus* Quoy & Gaimard, 1834  
*Conus sazanka* Shikama, 1970  
*Conus scabriusculus* Dillwyn, 1817  
*Conus spectabilis* A. Adams, 1853  
*Conus sponsalis* Hwass, 1792  
*Conus striatellus* Link, 1807  
*Conus striatus* Linné, 1758  
*Conus sugillatus* Reeve, 1844  
*Conus sulcatus* Hwass, 1792  
*Conus swainsoni* Estival, 1986  
*Conus terebra* Born, 1778  
*Conus tessulatus* Born, 1778  
*Conus textile* Linné, 1758  
*Conus tirardi* Röckel & Moolenbeek, 1996  
*Conus tulipa* Linné, 1758  
*Conus varius* Linné, 1758  
*Conus vexillum* Gmelin, 1791  
*Conus virgo* Linné, 1758  
*Conus vitulinus* Hwass, 1792

**COSTELLARIIDAE MacDonald, 1860**

*Vexillum alboteniatum* (Hervier, 1897)  
*Vexillum aubryanum* (Hervier, 1897)  
*Vexillum catenatum* (Broderip, 1836)  
*Vexillum diamesa* (Hervier, 1897)  
*Vexillum diutenerum* (Hervier, 1897)  
*Vexillum goubini* (Hervier, 1897)  
*Vexillum humilis* (Hervier, 1897)  
*Vexillum lanceolatum* (Hervier, 1897)  
*Vexillum loyaltyensis* (Hervier, 1897)  
*Vexillum ochracea* (Hervier, 1897)  
*Vexillum pagodula* (Hervier, 1897)  
*Vexillum plurinotatum* (Hervier, 1897)  
*Vexillum rhodochroa* (Hervier, 1897)  
*Vexillum roseotinctum* (Hervier, 1897)  
*Vexillum rufobalteatum* (Hervier, 1897)  
*Vexillum sculptile* (Reeve, 1845)  
*Vexillum verecundulum* (Hervier, 1897)

**CYPRAEIDAE Rafinesque, 1815**

*Cypraea contaminata* Sowerby, 1932

**DRILLIIDAE Olsson, 1964**

*Plagiostropha turrita* Wells, 1995  
*Splendrillia praeclara* (Melvill, 1893)

**EULIMIDAE Troschel, 1853**

*Echineulima mittrei* (Petit, 1851)  
*Echineulima robusta* (Pease, 1860)  
*Parvioris fulvescens* (A. Adams, 1866)  
*Parvioris noumeae* Warén, 1981



- Peasistilifer edulis* Hoskin & Warén, 1983  
*Pulicicochlea astropyga* Ponder & Gooding, 1978  
*Pulicicochlea calamaris* Ponder & Gooding, 1978 *Pulicicochlea faba* Ponder & Gooding, 1978  
*Pulicicochlea fusca* Ponder & Gooding, 1978  
*Robillardia solida* Warén, 1980  
*Scalenostoma carinata* Deshayes, 1863  
*Trochostilifer mortenseni* Warén, 1980  
*Vitreobalcis holdsworthi* (H. Adams, 1874)
- HALIOTIDAE Rafinesque, 1815**
- Haliotis clathrata* Reeve, 1846  
*Haliotis crebrisculpta* Sowerby, 1914  
*Haliotis dissona* Iredale, 1929  
*Haliotis diversicolor* Reeve, 1846  
*Haliotis jacnensis* Reeve, 1846  
*Haliotis ovina* Gmelin, 1791
- MARGINELLIDAE FLEMING, 1828**
- Hydroginella caledonica* (Jousseume, 1876)
- MATHILDIDAE Dall, 1889**
- Mathilda amanda* Thiele, 1925  
*Mathilda eurytima* Melvill & Standen, 1896
- MITRIDAE Swainson, 1831**
- Domiporta carnicolor* (Reeve, 1844)  
*Mitra amaura* Hervier, 1897
- MURICIDAE Rafinesque, 1815**
- Aspella media* Houart, 1987  
*Aspella ponderi* (Radwin & d'Attilio 1976)  
*Attiliosa caledonica* (Jousseume, 1881)  
*Chicomurex laciniatus* (Sowerby, 1841)  
*Chicomurex superbus* (Sowerby, 1889)  
*Chicomurex venustulus* Rehder & Wilson, 1975  
*Chicoreus banksii* (Sowerby, 1841)  
*Chicoreus brunneus* (Link, 1807)  
*Chicoreus maurus* (Broderip, 1833)  
*Chicoreus microphyllus* (Lamarck, 1822)  
*Chicoreus nobilis* Shikama, 1977  
*Chicoreus orchidiflorus* (Shikama, 1973)  
*Chicoreus ramosus* (Linné, 1758)  
*Chicoreus rossiteri* (Crosse, 1872)  
*Chicoreus territus* (Reeve, 1845)  
*Chicoreus torrefactus* (Sowerby, 1841)  
*Chicoreus turschi* Houart, 1981  
*Cronia crassulnata* (Hedley, 1915)  
*Cronia elata* (de Blainville, 1832)  
*Cronia elongata* (de Blainville, 1832)  
*Dermomurex tricolotae* Houart, 2001  
*Drupa grossularia* Röding, 1798  
*Drupa morum morum* Röding, 1798  
*Drupa ricinus* (Linné, 1758)  
*Drupella cornus* (Röding, 1798)  
*Drupella fragum* (de Blainville, 1832)  
*Drupella rugosa* (Born, 1778)  
*Ergalatax contracta* (Reeve, 1846)  
*Ergalatax margariticola* (Broderip, 1833)  
*Favartia brevicula* (Sowerby, 1834)  
*Favartia cirrosa* (Hinds, 1844)

*Favartia garrettii* (Pease, 1868)  
*Favartia leonae* d'Attilio & Myers, 1985  
*Favartia minatauros* Radwin & d'Attilio, 1976  
*Favartia rosamiae* d'Attilio & Hyers, 1985  
*Favartia salmonea* (Melvill & Standem, 1899)  
*Habromorula euryspira* Houart, 1994  
*Habromorula lepida* Houart, 1994  
*Hancinella mancinella* (Linné, 1758)  
*Haustellum haustellum* (Linné, 1758)  
*Homalocantha lamberti* (Poirier, 1883)  
*Homalocantha pele* (Pilsbry, 1918)  
*Homalocantha scorpio* (Linné, 1758)  
*Lataxiena desserti* Houart, 1995  
*Lataxiena fimbriata* (Hinds, 1844)  
*Maculotrion ingens* Houart, 1987  
*Maculotrion serriale* (Deshayes, 1834)  
*Monstrotypis singularis* Houart, 2002  
*Morula ambrosia* (Houart, 1995)  
*Morula andrewsi* (E. A. Smith)  
*Morula bicatenata* (Reeve, 1846)  
*Morula biconica* (Blainville, 1852)  
*Morula dichrous* (Tapparone Canefri, 1880)  
*Morula dumosa* (Conrad, 1837)  
*Morula euracantha* (A. Adams, 1853)  
*Morula euryspira* Houart, 1995  
*Morula granulata* (Rödind, 1798)  
*Morula lepida* Houart, 1995  
*Morula nodulifera* (Menke, 1829)  
*Morula spinosa* (H. & A. Adams, 1853)  
*Murex tenuirostrum* Lamarck, 1822  
*Murex tribulus* (Linné, 1758)  
*Murexiella sykesi rosamiae* d'Attilio & Hyers, 1985  
*Muricodrupa fenestrata* (de Blainville, 1832)  
*Muricodrupa fiscella* (Gmelin, 1791)  
*Muricopsis cuspidatus* (Sowerby, 1879)  
*Muricopsis micra* Houart, 2001  
*Muricopsis spiculus* Houart, 1986  
*Naquetia cumingii* (A. Adams, 1853)  
*Nassa mucronata* (A. Adams)  
*Nassa sarta* (Bruguière, 1789)  
*Orania adiaستolos* Houart, 1995  
*Orania archaea* Houart, 1995  
*Orania fischeriana* (Tapparone Canefri, 1882)  
*Orania pacifica* (Nakayama, 1988)  
*Pagodula procera* Houart, 2001  
*Pascula lefevreiana* (Tapparone Canefri, 1880)  
*Pascula muricata* (Reeve, 1846)  
*Pterynotus aparrii* d'Attilio & Bertsch, 1980  
*Pterynotus barclayanus* (H. Adams, 1874)  
*Pterynotus martinetana* (Röding, 1798)  
*Pterynotus pellucidus* (Reeve, 1845)  
*Pterynotus pinnatus* (Swainson, 1833)  
*Pterynotus tripterus* (Born, 1778)  
*Spinidrupa andrewsi* (E. A. Smith, 1873)  
*Spinidrupa euracantha* (A. Adams, 1853)

*Spinidrupa spinosa* (A. Adams, 1853)  
*Thais aculeata* (Link, 1807)  
*Thais armigera* (Link, 1807)  
*Thais grossa* Houart, 2001  
*Typhis carolinae* Houart, 1987  
*Typhis neocaledonicus* Houart, 1987  
*Vitularia crenifer* (Montrouzier, 1861)  
*Vitularia miliaris* (Gmelin, 1791)

**NASSARIIDAE Iredale, 1916**

*Cyllene concinna* A. Adams, 1851  
*Nassarius abyssicolus* (A. Adams, 1852)  
*Nassarius albescens albescens* (Dunker, 1846)  
*Nassarius arcus* Cernohorsky, 1991  
*Nassarius barsdelli* Ladd, 1976  
*Nassarius bifarius* (Baird in Brenchley, 1873)  
*Nassarius castus* (Gould, 1850)  
*Nassarius comphes* (A. Adams, 1852)  
*Nassarius comptus* (A. Adams, 1852)  
*Nassarius concinnus* (Powys, 1835)  
*Nassarius conoidalis* (Deshayes in Bélanger, 1832)  
*Nassarius crematus* (Hinds, 1844)  
*Nassarius delicatus* (A. Adams, 1852)  
*Nassarius ecstilbus* (Melvill & Standen, 1896)  
*Nassarius fraudulentus* (Marrat, 1877)  
*Nassarius fretorum* (Melvill & Standen, 1899)  
*Nassarius gaudiosus* (Hinds, 1844)  
*Nassarius glans glans* (Linné, 1758)  
*Nassarius globosus* (Quoy & Gaimard, 1833)  
*Nassarius granifer* (Kiener, 1834)  
*Nassarius haldemanni* (Dunker, 1847)  
*Nassarius idyllius* (Melvill & Standen, 1901)  
*Nassarius leptospirus* Adams A, 1852  
*Nassarius multipunctatus* (Schepman, 1911)  
*Nassarius nodicostatus* (A. Adams, 1852)  
*Nassarius pauperus* (Gould, 1850)  
*Nassarius quadrasi* (Hidalgo, 1904)  
*Nassarius shackelfordi* (Melvill & Standen, 1896)  
*Nassarius sinusigerus* (A. Adams, 1852)  
*Nassarius siquijorensis* (A. Adams, 1852)  
*Nassarius splendidulus* (Dunker, 1846)  
*Nassarius stigmarius* (A. Adams, 1852)  
*Nassarius troendleorum* Cernohorsky, 1980  
*Nassarius vidalensis* (Barnard, 1959)  
*Nassarius vitiensis* (Rousseau, 1854)

**OLIVIDAE Latreille, 1825**

*Amalda bellonarum* Kilburn & Bouchet, 1988  
*Amalda montrouzieri* (Souverbie, 1860)  
*Oliva carneola* (Gmelin, 1791)  
*Oliva miniacea* (Röding, 1798)

**PERSONIDAE Gray, 1854**

*Distorsio anus* (Linné, 1758)  
*Distorsio decipiens* (Reeve, 1844)  
*Distorsio habei* Lewis, 1972  
*Distorsio kurzi* Petuch & Harasewych, 1980  
*Distorsio parvimpedita* Beu, 1998

*Distorsio reticularis* (Linné, 1758)

*Distorsomina pusilla* (Pease, 1861)

**PICKWORTHIIDAE Iriedale, 1917**

*Clatrosansonia troendlei* Le Renard & Bouchet, 2003

**RANELLIDAE Gray, 1854**

*Charonia tritonis* (Linné, 1758)

*Cymatium aquatile* (Reeve, 1844)

*Cymatium armatum* (Sowerby III, 1897)

*Cymatium caudatum* (Gmelin, 1791)

*Cymatium comptum* (A. Adams, 1855)

*Cymatium dunkeri* (Lischke, 1868)

*Cymatium exaratum* (Reeve, 1844)

*Cymatium exile* (Reeve, 1844)

*Cymatium fittkau* Parth, 1991

*Cymatium gemmatum* (Reeve, 1844)

*Cymatium gutturnium* (Röding, 1798)

*Cymatium hepaticum* (Röding, 1798)

*Cymatium iredalei* (Beu, 1994)

*Cymatium labiosum* (Wood, 1828)

*Cymatium lotorium* (Linné, 1758)

*Cymatium mixtum* Arthur & Garcia-Talavera, 1990

*Cymatium mundum* (Gould, 1849)

*Cymatium muricinum* (Röding, 1798)

*Cymatium nicobaricum* (Röding, 1798)

*Cymatium occidentale* (Mörch, 1877)

*Cymatium parthenopeum* (Salis Marschlins, 1793)

*Cymatium pfeifferianum* (Reeve, 1844)

*Cymatium pileare* (Linné, 1758)

*Cymatium pyrum* (Linné, 1758)

*Cymatium rubeculum* (Linné, 1758)

*Cymatium sarcostoma* (Reeve, 1844)

*Cymatium sinense* (Reeve, 1844)

*Cymatium springsteeni* Beu, 1987

*Cymatium succinctum* (Linné, 1771)

*Cymatium testudinarium* (Adams & Reeve, 1850)

*Cymatium vespacium* (Lamarck, 1822)

*Gyrineum gyrinum gyrinum* (Linné, 1758)

*Gyrineum lacunatum* (Mighels, 1845)

*Gyrineum longicaudatum* Beu, 1998

*Gyrineum roseum* (Reeve, 1844)

**RISSELLIDAE Gray, 1850**

*Rissoella confusa* Ponder & Yoo, 1978

*Rissoella globosa* Ponder & Yoo, 1978

**SPONDYLIDAE Gray, 1826**

*Spondylus albibarbatus* Reeve, 1856

*Spondylus anacanthus* Mawe, 1823

*Spondylus asperrimus* Sowerby, 1847

*Spondylus butleri* Reeve, 1856

*Spondylus candidus* Lamarck, 1819

*Spondylus castus* Reeve, 1856

*Spondylus deforgesi* Lamprell & Healy, 2001

*Spondylus echinatus* Schreibers, 1793

*Spondylus exiguus* Lamprell & Healy, 2001

*Spondylus foliaceus* Schreibers, 1793

*Spondylus heidkeae* Lamprell & Healy, 2001

*Spondylus lamarcki* Chenu, 1845  
*Spondylus maestratii* Lamprell & Healy, 2001  
*Spondylus mireilleae* Lamprell & Healy, 2001  
*Spondylus nicobaricus* Schreibers, 1793  
*Spondylus ocellatus* Reeve, 1856  
*Spondylus orstomi* Lamprell & Healy, 2001  
*Spondylus rippingalei* Lamprell & Healy, 2001  
*Spondylus rubicundus* Reeve, 1856  
*Spondylus sinensis* Schreibers, 1793  
*Spondylus squamosus* Schreibers, 1793  
*Spondylus variegatus* Schreibers, 1793  
*Spondylus varius* Sowerby, 1827  
*Spondylus versicolor* Schreibers, 1793  
*Spondylus victoriae* Sowerby, 1860  
*Spondylus zonalis* Lamarck, 1819

#### **STROMBIDAE Rafinesque, 1815**

*Strombus dentatus* Linné, 1758  
*Strombus dilatatus* Swainson, 1821  
*Strombus epidromus* Linné, 1758  
*Strombus erythrinus* Dillwyn, 1817  
*Strombus fragilis* (Röding, 1798)  
*Strombus gibberulus gibbosus* (Röding, 1798)  
*Strombus haemastoma* Sowerby II, 1842  
*Strombus labiatus* (Röding, 1798)  
*Strombus luhuanus* Linné, 1758  
*Strombus minimus* Linné, 1771  
*Strombus mutabilis* Swainson, 1821  
*Strombus plicatus* Reeve, 1851  
*Strombus thersites* Swainson, 1823  
*Strombus variabilis* Swainson, 1820  
*Strombus vomer* (Röding, 1798)  
*Strombus wilsoni* Abbott, 1967

#### **TEREBRIDAE Mörch, 1852**

*Terebra affinis* Gray, 1834  
*Terebra albocancellata* Bratcher, 1988  
*Terebra amanda* Hinds, 1844  
*Terebra amoena* Deshayes, 1859  
*Terebra anilis* (Röding, 1798)  
*Terebra areolata* (Link, 1807)  
*Terebra argus* Hinds, 1844  
*Terebra babylonia* Lamarck, 1822  
*Terebra chlorata* Lamarck, 1822  
*Terebra cinctella* Deshayes, 1859  
*Terebra cingulifera* Lamarck, 1822  
*Terebra columellaris* Hinds, 1844  
*Terebra conspersa* Hinds, 1844  
*Terebra cumingii* Deshayes, 1857  
*Terebra exiguoides* Schepman, 1913  
*Terebra fijiensis* (E. A. Smith, 1873)  
*Terebra flavofasciata* Pilsbry, 1921  
*Terebra funiculata* Hinds, 1844  
*Terebra jenningsi* Bursh, 1965  
*Terebra kilburni* Bursh, 1965  
*Terebra laevigata* Gray, 1834  
*Terebra lima* Deshayes, 1857

- Terebra livida* Reeve, 1840  
*Terebra maculata* (Linné, 1758)  
*Terebra marmorata* Deshayes, 1859  
*Terebra nebulosa* Sowerby, 1825  
*Terebra parkinsoni* Cernohorsky & Bratcher, 1976  
*Terebra parva* Baird, 1873  
*Terebra paucincisa* Bratcher, 1988  
*Terebra paucistriata* (E. A. Smith, 1873)  
*Terebra pertusa* (Born, 1798)  
*Terebra polygyrata* Deshayes, 1859  
*Terebra punctatostrata* Gray, 1834  
*Terebra subulata* (Linné, 1767)  
*Terebra succincta* (Gmelin, 1791)  
*Terebra textilis* Hinds, 1844  
*Terebra tricolor* Sowerby, 1825  
*Terebra triseriata* Gray, 1834  
*Terebra turrita* (E. A. Smith, 1873)  
*Terebra undulata* Gray, 1834  
*Terebra virgo* Schepman, 1913  
*Terenolla pygmaea* Hinds, 1844
- TRAPEZIDAE Lamy, 1920**
- Glossocardia obesa* (Reeve, 1843)
- TRIVIDAE Troschel, 1863**
- Dolichupis producta* (Gaskoin, 1836)
- TROCHIDAE Rafinesque, 1815**
- Monodonta fischeri* Montrouzier, 1866  
*Rotella montrouzieri* Souverbie, 1858  
*Stomatella crassa* Montrouzier, 1870  
*Stomatella granosa* Lambert, 1874  
*Stomatella picta* Montrouzier, 1862  
*Stomatella stellata* Souverbie, 1863  
*Tectaria montrouzieri* Fischer, 1878  
*Trochus artensis* Fischer, 1878  
*Trochus calcaratus* Souverbie, 1875  
*Trochus constellatus* Souverbie, 1863  
*Trochus fabrei* Montrouzier, 1878  
*Trochus fossulatulus* Souverbie, 1875  
*Trochus gilberti* Montrouzier, 1878  
*Trochus lamberti* Souverbie, 1875  
*Trochus lifuanus* Fischer, 1878  
*Trochus niloticus* Linné, 1758  
*Trochus poupineli* Montrouzier, 1875  
*Trochus reevei* Montrouzier, 1866  
*Trochus rhodomphalus* Souverbie, 1875  
*Trochus scrobiculatus* Souverbie, 1866
- TURBINIDAE Rafinesque, 1815**
- Turbo artensis* Montrouzier, 1860  
*Turbo laetus* Montrouzier, 1863  
*Turbo naninus* Souverbie, 1864
- TURRIDAE H. & A. Adams, 1853**
- Clavus canalicularis* (Röding, 1798)  
*Clavus exasperatus* Reeve, 1843  
*Clavus pulicarius* Wells, 1991  
*Comitas pachycercus* Sysoev & Bouchet, 2001  
*Plagiostropha turrita* Wells, 1995

*Splendrillia praeclara* (Melville, 1893)

**VOLUTIDAE Rafinesque, 1815**

*Cymbiola deshayesi* (Reeve, 1855)

*Cymbiola rossiniana* (Bernardi, 1859)

*Cymbiolacca thatcheri* (McCoy, 1868)

*Lyria grangei* Cernohorsky, 1980

*Lyria deliciosa* (Montrouzier, 1859)

**XENOPHORIDAE Philippi, 1853**

*Xenophora cerea* (Reeve, 1845)

*Xenophora corrugata* Watson, 1886

*Xenophora lamberti* Souverbie, 1871

*Xenophora mekranensis kono* Habe, 1953

*Xenophora pallidula* (Reeve, 1842)

*Xenophora solaroides* (Reeve, 1845)

**NUDIBRANCHIA Cuvier, 1817**

**AEGIRIDAE FISCHER, 1883**

*Aegirus villosus* Farran, 1905

*Aegirus leuckarti* Verany,

*Aegirus citrinus* Pruvot-Fol, 1930

**AEOLIDIADAE Bergh,**

*Aeolidia bourailli* (Risbec, 1928)

*Aeolidia cornuta* (Risbec, 1928)

*Aeolidia dangeri* (Risbec, 1928)

*Aeolidia diffusa* (Risbec, 1928)

*Aeolidia ducrosi* (Risbec, 1928)

*Aeolidia joubini* (Risbec, 1928)

*Aeolidia pelseneeri* Risbec, 1937

*Aeolidia poindimiei* (Risbec, 1928)

*Aeolidia trunca* (Risbec, 1928)

*Aeolidia violacea* (Risbec, 1928)

*Aeolidiella alba* Risbec, 1928

*Aeolidiella hulli* Risbec, 1928

*Caloria australis* Risbec, 1937

*Caloria guenanti* Risbec, 1928

*Coryphella ornata* Risbec, 1928

*Cratena cornuta* Risbec, 1928

*Cratena diffusa* Risbec, 1928

*Cratena exigua* Risbec, 1928

*Cratena grisea* Risbec, 1928

*Cuthona acinosa* Risbec, 1928

*Cuthona germaini* Risbec, 1937

*Cuthona mimetica* Pruvot-Fol, 1930

*Cuthonella amoena* Risbec, 1928

*Digitobranchus nebae* Risbec, 1930

*Embletonia gracile* Risbec, 1928

*Eubranchus montraveli* Risbec, 1937

*Facalana lamyi* Risbec, 1937

*Facelina bourailli* Risbec, 1928

*Facelina fragilis* Risbec, 1928

*Favorinus gouaroi* Risbec, 1928

*Favorinus joubini* Risbec, 1928

*Favorinus violaceus* Risbec, 1928

*Globiferina noumeae* Risbec, 1937

*Hervia ducrosi* Risbec, 1928

*Hervia dangeri* Risbec, 1928  
*Hervia trunca* Risbec, 1928  
*Noumeaella curiosa* Risbec, 1937  
*Phestilla poindimiei* Risbec, 1928  
*Phidiana obscura* Risbec, 1928  
*Pteraeolidia semperi* Bergh,  
**ARCHIDORIDIDAE Bergh, 1892**  
*Guyonia flava* Risbec, 1928  
*Phlegmodoris paagoumenei* Risbec, 1928  
*Phlegmodoris papillosa* Risbec, 1928  
**BAPTODORIDIDAE Odhner, 1926**  
*Baptodoris fongosa* Risbec, 1928  
**BORNELLIDAE Bergh, 1842**  
*Bornella digitata* Adams, 1861  
**CHROMODORIDIDAE Bergh, 1892**  
*Cadlina ornatissima* (Risbec, 1928)  
*Cadlinella hirsuta* (Rudman, 1995)  
*Cadlinella ornatissima* (Risbec, 1953)  
*Ceratosoma caledonicum* (Fischer, 1876)  
*Ceratosoma francoesii* (Rochebrune, 1894)  
*Ceratosoma tenue* Abraham, 1876  
*Ceratosoma trilobatum* (Gray, 1827)  
*Chromodoris alderi* (Collingwood, 1828)  
*Chromodoris australis* (Risbec, 1928)  
*Chromodoris clitonota* (Bergh, 1905)  
*Chromodoris clavata* (Risbec, 1928)  
*Chromodoris coi* (Risbec, 1956)  
*Chromodoris decora* (Pease, 1960)  
*Chromodoris decorata* (Risbec, 1928)  
*Chromodoris diardii* (Kelaart.)  
*Chromodoris fidelis* (Kelaart.)  
*Chromodoris geometrica* (Risbec, 1928)  
*Chromodoris kuniei* (Pruvot-Fol, 1930)  
*Chromodoris lamberti* (Crosse, 1875)  
*Chromodoris lata* (Risbec, 1928)  
*Chromodoris lineolata* (Van Hasselt.)  
*Chromodoris marginata* (Pease,) 1860  
*Chromodoris mariei* (Crosse, 1875)  
*Chromodoris mouaci* (Risbec, 1928)  
*Chromodoris n'dukuei* (Risbec, 1928)  
*Chromodoris odhneri* (Risbec, 1953)  
*Chromodoris pallescens* (Bergh, 1905)  
*Chromodoris preciosa* (Kelaart, 1858)  
*Chromodoris quadricolor* (Rüppel, 1828)  
*Chromodoris souverbiei* (Crosse, 1875)  
*Chromodoris striatella* Bergh, 1877  
*Chromodoris tenuis* (Collingwood, 1828)  
*Chromodoris trouilloti* (Risbec, 1928)  
*Chromodoris variata* (Risbec, 1928)  
*Chromodoris verrieri* (Crosse, 1875)  
*Chromodoris versicolor* (Risbec, 1928)  
*Durvilledoris albofimbria* (Rudman, 1995)  
*Glossodoris aureola* (Rudman, 1995)  
*Glossodoris aeruginosa* (Rudman, 1995)  
*Glossodoris pullata* (Rudman, 1995)



*Hypselodoris flavomarginata* (Rudman,1995)  
*Hypselodoris koumacensis* (Rudman,1995)  
*Hypselodoris lacteola* (Rudman, 1995)  
*Hypselodoris punicea* (Rudman,1995)  
*Hypselodoris maculosa* (Pease, 1871)  
*Noumea decussata* Risbec, 1928  
*Noumea flava* (Eliot, 1904)  
*Noumea laboutei* Rudman, 1986  
*Noumea romeri* Risbec, 1928  
*Noumea verconiforma* (Rudman,1995)  
*Noumea violacea* Risbec, 1930  
*Risbecia francoisi* (Odhner,1934)  
*Risbecia odhneri* Risbec, 1928  
*Risbecia versicolor* Risbec, 1928  
*Thorunna australis* (Risbec, 1928)  
*Thorunna montrouzieri* (Rudman,1995)

**DENDRODORIDIDAE Ehrenberg, 1831**

*Dendrodoris clavulata* Alder & Hancock, 1864  
*Dendrodoris communis* (Risbec,1928)  
*Dendrodoris elongata* Baba, 1936  
*Dendrodoris erubescens* Bergh, 1905  
*Dendrodoris fosseti* Risbec, 1928  
*Dendrodoris maculata* Risbec, 1928  
*Dendrodoris mariei* Crosse, 1875  
*Dendrodoris mollis* (Risbec,1928)  
*Dendrodoris montrouzieri* Crosse,  
*Dendrodoris murina* Risbec, 1928  
*Dendrodoris nigra* (Stimpson, 1855)

**DORIDIDAE Rafinesque, 1815**

*Asteronotus boholiensis* Ribesc, 1930,  
*Carminodoris cockerelli* Risbec, 1930  
*Carminodoris punctulifera* Bergh,  
*Carminodoris flavescens* Risbec, 1937  
*Doriopsis pecten* Coll, 1881  
*Doriopsis viridis* Pease, 1861  
*Kentrodoris inframaculata* Von Ihering  
*Kentrodoris nigra* Risbec, 1928  
*Kentrodoris pseudofusca* Risbec, 1928  
*Peltodoris noumeae* Risbec, 1937  
*Pharodoris diaphora* Valdes, 2001  
*Rostanga atrata* Kelaart, 1859  
*Staurodoris aspera* Risbec, 1928  
*Thordisa hilaris* Bergh, 1905  
*Trippa intecta* Kelaart, 1853  
*Trippa spinosa* Risbec, 1928

**DOTIDAE Vayssière, 1888**

*Doto racemosa* Risbec, 1928

**ELYSIADAE Bergh, 1892**

*Elysia gracilis* Risbec, 1930  
*Elysia ornata* Pease, (Swaison, 1840)  
*Elysia nigropuncta* Pease,  
*Elysia pilosa* Risbec, 1928  
*Elysia pruvotae* Risbec, 1928  
*Elysia vatae* Risbec, 1928  
*Elysiobranchus mercieri* Pruvot-Fol, 1930

- Placobranchus guttatus* Stimpson, 1858
- GONIODORIDIDAE H. & A. Adams, 1854**
- Goniodoris joubini* Risbec, 1928
- Goniodoris violacea* Risbec, 1928
- Hopkinsia pilosa* Bouchet & Ortea, 1983
- GRUVELIIDAE Risbec, 1928**
- Gruvelia spahri* Risbec, 1928
- GYMNODORIDIDAE Odhner, 1941**
- Trevelyana bicolor* Alder & Hancock, 1864
- Trevelyana ceylonica* Kelaart, 1858
- Trevelyana kouaouae* Risbec, 1928
- Trevelyana perlucens* Risbec, 1928
- Trevelyana suggens* Risbec, 1928
- HEXABRANCHIDAE Bergh, 1892**
- Hexabranchus marginatus* Quoy & Gaimard, 1832
- MADRELLIDAE Vayssière, 1909**
- Madrella ferruginea* Alder & Hancock, 1866
- PHYLLIDIIDAE Rafinesque, 1814**
- Phyllidia bourgini* Risbec, 1928
- Phyllidia tuberculata* Risbec, 1928
- Phyllidia nobilis* Bergh, 1888
- Phyllidia scottjohnsoni* Brunckhorst, 1993
- PHYLLOBRANCHILLIDAE**
- Phyllobranchillus orientalis* Kelaart, 1858
- PLATYDORIDIDAE Bergh, 1891**
- Platydoris carinata* Risbec, 1928
- Platydoris cruenta* Quoy & Gaimard, 1832
- Platydoris immonda* Risbec, 1928
- Platydoris laminea* Risbec, 1928
- Platydoris noumeae* Risbec, 1928
- Platydoris spongilla* Risbec, 1928
- POLYCERIDAE Alder & Hancock, 1845**
- Analogium striatum* Eliot, 1908
- Joubiniopsis bourailli* Risbec, 1928
- Plocamopherus ceylonicus* Kelaart,
- Plocamopherus fulgurans* Risbec, 1928
- Polycera funerea* Pruvot-Fol, 1930
- Polycera picta* Risbec, 1928
- Polycera pruvotae* Risbec, 1953
- Polycera tabescens* Risbec, 1928
- Spahria minima* Risbec, 1928
- POROMYIDAE Dall, 1886**
- Cetomya butoni* (Prashad, 1932)
- SCYLLAEIDAE Bergh, 1892**
- Scyllaea pelagica* Linné, 1758
- TETHYMELIBIDAE Bergh, 1892**
- Melibe engeli* Risbec, 1937
- Melibe papillosa* Filippi, 1867
- TRITONIADAE Bergh, 1892**
- Mariana rosea* Pruvot-Fol, 1930
- VAYSSIEREIDAE Thiele, 1931**
- Vayssiorea caledonica* Risbec, 1928

**PELECYPODA (Goldfuss, 1820)**

**CARDIIDAE Lamarck, 1809**

- Acrosterigma attenuatum* (Sowerby, 1841)
- Acrosterigma biradiatum* (Bruguière, 1789)
- Acrosterigma dianthinum* (Melvill & Standen, 1899)
- Acrosterigma elongatum coralense* Vidal, 1999
- Acrosterigma hobbsae* Vidal, 1999
- Acrosterigma maculosum* (Wood, 1815)
- Acrosterigma maculosum howense* Vidal, 1999
- Acrosterigma punctolineatum* Healy & Lamprell, 1992
- Acrosterigma selene* Vidal, 1999
- Acrosterigma sewelli* (Prashad, 1932)
- Acrosterigma simplex* (Spengler, 1799)
- Acrosterigma transcendens* (Melvill & Standen, 1899)
- Fulvia aperta* (Bruguière, 1789)
- Fulvia australis* (Sowerby, 1834)
- Fulvia dulcis* (Deshayes, 1863)
- Fulvia fragiformis* Vidal, 1994
- Fulvia hungerfordi* Sowerby, 1901
- Fulvia lineonotata* Vidal, 1994
- Fulvia scalata* Vidal, 1994
- Fulvia undatopicta* (Pilsbry, 1904)
- Vasticardium elongatum* (Bruguière, 1789)
- Vasticardium orbita philippinense* (Hedley, 1899)
- Vasticardium pectiniforme* (Born, 1780)

**CHAMIDAE Lamarck, 1809**

- Eopseuma phyllotrapezium* Matsukuma, 1996

**GLOSSIDAE Gray, 1847**

- Meiocardia moltkiana* (Gmelin, 1791)

**LUCINIDAE Fleming, 1828**

- Lucina edentula* (Linné)

**OSTREIDAE Rafinesque, 1815**

- Crassostrea cuculata* (Born)

**PECTINIDAE Rafinesque, 1815**

- Annachlamys flabellata kuhnoltzi* Bernardi, 1860
- Annachlamys iredalei* Powell, 1950
- Anguipecten picturatus* Dijkstra, 1995
- Argopecten rehderi* Grau, 1960
- Bractechlamys coudeini* (Bavay, 1903)
- Bractechlamys kuhnoltzi* (Bernardi, 1860)
- Bractechlamys lamberti* (Souverbie, 1874)
- Bractechlamys vexillum* (Reeve, 1853)
- Chlamys cloacata* (Reeve, 1853)
- Chlamys coruscans coruscans* Hinds, 1845
- Chlamys elegantissima* Deshayes, 1863
- Chlamys quadrilirata* Lischke, 1870
- Chlamys squamosa* Gmelin, 1791
- Chlamys wilhelminae* Bavay, 1904
- Coralichlamys madreporarum* (Sowerby II, 1842)
- Coralichlamys spectabilis* (Reeve, 1853)
- Coralichlamys spondyloideum* (Gmelin, 1791)
- Cryptopecten amicum* (E.A. Smith, 1885)
- Cryptopecten bernardi nux* Reeve, 1853
- Cryptopecten deliciosa* (Iredale, 1939)
- Cryptopecten elegantissima* (Deshayes, 1863)

*Cryptopecten forbesianus* (A.Adams & Reeve, 1849)  
*Cryptopecten iredalei* (Powell, 1958)  
*Cryptopecten maldivense* (E.A. Smith, 1903)  
*Cryptopecten nux* (Reeve, 1853)  
*Cryptopecten quadrilirata* (Lischke, 1870)  
*Cryptopecten rastellum* (Lamarck, 1819)  
*Cryptopecten senatoria* (Gmelin, 1791)  
*Decatopecten pallium* (Linné, 1758)  
*Decatopecten radula* (Linné, 1758)  
*Haumea rehderi* (Grau, 1960)  
*Hemipecten forbesianus* A.Adams & Reeve, 1849  
*Laevichlamys andamanica* (Preston, 1908)  
*Laevichlamys balloti* (Bernardi, 1861)  
*Laevichlamys barnetti* (Dijkstra, 1988)  
*Laevichlamys irregularis* (Sowerby II, 1842)  
*Laevichlamys mirificus* (Reeve, 1853)  
*Laevichlamys squamosa* (Gmelin, 1791)  
*Laevichlamys wilhelminae* (Bavay, 1904)  
*Mimachlamys deliciosa* Iredale, 1939  
*Mimachlamys gloriosa* (Reeve, 1853)  
*Mimachlamys senatoria* Gmelin, 1791  
*Scaeoclamys livida* (Iredale, 1939)  
*Sempallium coruscans* (Hinds, 1845)  
*Sempallium fulvicostatum* (A. Adams & Reeve, 1850)  
*Sempallium kengaluorum* Dijkstra, 1986  
*Serratovola gardineri* (E.A. Smith, 1903)  
*Serratovola tricarinata* (Anton, 1839)

**PROPEAMUSSIIDAE Abbott, 1954**

*Parvamussium pauciliratum* (E. A. Smith, 1903)

**TELLINIDAE Blainville, 1814**

*Tellina staurella* (Lamarck) 1818

**VENERIDAE Rafinesque, 1815**

*Callista accincta* Römer, 1864  
*Callista lilacina* (Lamarck, 1818)  
*Callista roseotincta* (Smith & Withehead, 1885)  
*Gafrarium gibbium* (Lamarck)  
*Lioconcha annettae* Lamprell & Withehead, 1990  
*Lioconcha berthaulti* Lamprell & Healy, 2002  
*Lioconcha caledonensis* Harte & Lamprell, 1999  
*Lioconcha castrensis* (Linné, 1758)  
*Lioconcha macaulayi* Lamprell & Healy, 2002  
*Lioconcha melharteae* Lamprell & Stanistic, 1996  
*Lioconcha ornata* (Dillwyn, 1817)  
*Lioconcha philippinarum* (Hanley, 1844)  
*Lioconcha polita* (Röding, 1798)  
*Lioconcha richerdeforgesi* Lamprell & Stanistic, 1996  
*Lioconcha schioettei* Lamprell & Healy, 2002  
*Lioconcha trimaculata* (Lamarck, 1818)  
*Pitar affinis* (Gmelin, 1791)  
*Pitar caperi* Lamprell & Healy, 1997  
*Pitar citrina* (Lamarck, 1818)  
*Pitar healyi* Lamprell & Stanistic, 1996  
*Pitar intricata* (Dautzenberg, 1907)  
*Pitar japonica* Kuroda & Kawamoto, 1956  
*Pitar nancyae* Lamprell & Withehead, 1990

*Pitar noguchii* Habe, 1958  
*Pitar pellucidus* (Lamarck, 1818)  
*Pitar potteri* Healy & Lamprell, 1992  
*Pitar prora* (Conrad, 1837)  
*Pitar sophiae* (Angas, 1877)  
*Pitar spoori* Lamprell & Withehead, 1990

**POLYPLACOPHORA Gray, 1821**

**ACANTHOCHITONIDAE Simroth, 1894**

*Notoplax producta* (Carpenter, 1892)

**CHITONIDAE Rafinesque, 1815**

*Acanthopleura araucariana* (Hedley, 1898)

*Acanthopleura gemmata* (de Blainville, 1825)

*Tegulaplax pulchra* Kaas, 1991

**SCHIZOCHITONIDAE Dall, 1889**

*Loricella profundior* (Dell, 1956)

**SCAPHOPODA Bronn, 1862**

**DENTALIIDAE Gray, 1847**

*Antalis weinkauffi* (Dunker, 1877)

*Dentalium pluricostatum* Boissevain, 1906

*Dentalium variabile* Deshayes, 1825

*Graptacme lactea* (Deshayes, 1825)

*Pictodentalium festivum* (Sowerby, 1914)

*Tesseracme tetrapleura* (Boissevain, 1906)

**FUSTIARIIDAE Steiner, 1991**

*Fustiaria langfordi* (Habe, 1963)

*Fustiaria nipponica* (Yokoyama, 1922)

**GADILIDAE Stoliczka, 1868**

*Dischides yateensis* Scarabino, 1995

*Cadulus aratus* Hedley, 1899

**GADILINIDAE Chistikov, 1975**

*Episiphon subtorquatum* (Fischer, 1871)





© IRD/Pierre Laboute

*Ceratosoma* sp.



© IRD/Pierre Laboute

*Rubropulosa* sp.



© IRD/Pierre Laboute

*Cutoma kanga* sp.



© IRD/Pierre Laboute

*Chromodoris kunei*



© IRD/Pierre Laboute

*Marionopsis rubra*



© IRD/Pierre Laboute

*Halgerda* sp.



© IRD/Pierre Laboute

*Noumea catalai*



© IRD/Pierre Laboute

*Tambja affinis*



DOCUMENTS  
SCIENTIFIQUES  
et TECHNIQUES

II7

Volume spécial

COMPENDIUM  
of marine species from  
New Caledonia



Edited by  
CLAUDE E. PAYRI  
Bertrand RICHER DE FORGES



Institut de recherche  
pour le développement

CENTRE DE NOUMÉA



**DOCUMENTS**  
**SCIENTIFIQUES**  
**et TECHNIQUES**

---



**Institut de recherche  
pour le développement**

Publication éditée par:  
Centre IRD de Nouméa  
BP A5, 98848 Nouméa CEDEX  
Nouvelle-Calédonie  
Téléphone: (687) 26 10 00  
Fax: (687) 26 43 26

L'IRD propose des programmes regroupés en 5 départements pluridisciplinaires :

- I DME Département milieux et environnement
- II DRV Département ressources vivantes
- III DSS Département sociétés et santé
- IV DEV Département expertise et valorisation
- V DSF Département du soutien et de la formation des communautés scientifiques du Sud

**Modèle de référence bibliographique à cette revue :**

Adjeroud M. *et al.*, 2000. Premiers résultats concernant le benthos et les poissons au cours des missions TYPATOLL.  
*Doc. Sci. Tech.* II 3, 125 p.

---

ISSN 1297-9635

Numéro II7 - Octobre 2006

© IRD 2006

Distribué pour le Pacifique par le Centre de Nouméa.



Première de couverture : Récif corallien (Côte Ouest, NC) © IRD/C.Geoffray  
Vignettes : voir les planches photographiques

Quatrième de couverture : *Platygyra sinensis* © IRD/C.Geoffray

|  |  |
|--|--|
| Matériel de plongée<br>sous-marine<br>© IRD/C.Geoffray                                   | L'Aldric, moyen<br>navigant de l'IRD<br>© IRD/J.-M. Boré     |
| Récoltes et photographies<br>sous-marines en<br>scaphandre autonome<br>© IRD/J.-L. Menou | Traitement des récoltes<br>en laboratoire<br>© IRD/L. Mattio |

CONCEPTION/MAQUETTE/MISE EN PAGE  
MAQUETTE DE COUVERTURE  
PLANCHES PHOTOGRAPHIQUES  
TRAITEMENT DES PHOTOGRAPHIES

JEAN PIERRE MERMOUD  
CATHY GEOFFRAY/ MINA VILAYLECK  
CATHY GEOFFRAY/JEAN-LOUIS MENOU/GEORGES BARGIBANT  
NOËL GALAUD

La traduction en anglais des textes d'introduction, des Ascidies et des Echinodermes a été assurée par EMMA ROCHELLE-NEWALL, la préface par MINA VILAYLECK.

Ce document a été produit par le Service ISC, imprimé par le Service de Reprographie du Centre IRD de Nouméa et relié avec l'aimable autorisation de la CPS, financé par le Ministère de la Recherche et de la Technologie.

ISSN 1297-9635  
Numéro II7 - Octobre 2006  
© IRD 2006

**COMPENDIUM OF MARINE SPECIES FROM  
NEW CALEDONIA**

Edited by  
CLAUDE E. PAYRI, BERTRAND RICHER DE FORGES

---