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Volutidae (Neogastropoda) in the collection of the Zoological Museum of Jagiellonian University in Kraków (Poland)

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Abstract. The paper contains an annotated list of the representatives of the family Volutidae in the collection of the Zoological Museum of Jagiellonian University in Kraków (Poland).

Kurzfassung. Volutidae (Neogastropoda) in der Sammlung des Zoologischen Museums der Jagiellonen-Universität in Kraków (Polen). – Die Arbeit beinhaltet eine kommentierte Liste der Vertreter der Familie Volutidae in der Sammlung des Zoologischen Museums der Jagiellonen-Universität in Kraków (Polen).

Key words. Volutidae, collection, specimen, rare species, Zoological Museum of Jagiellonian University, Kraków.

Introduction

In 1984, Bolesław RĄCZKA from Ottawa, Gloucester, gave his collection of sea shells, including about 2,000 species of gastropods, bivalves, scaphopods, chitons and cephalopods, to the Zoological Museum of Jagiellonian University in Kraków. Since 1992, the whole collection has been exhibited in the mediaeval cellar of the oldest building of Jagiellonian University, called *Collegium Iuridicum*. Several groups in the collection are well documented and scientifically valuable material comprising numerous rare or uncommon taxa coming mostly from West Mexico, Philippines and Australia. In the paper, an annotated list of the Volutidae is given, with catalogue numbers.

The nomenclature adopted below follows WEAVER & DU PONT (1970), with additions and corrections after KEEN (1971) and SPRINGSTEN & LEOBRERA (1986).

Annotated list of species

1. *Adelomelon (Pachycymbiola) brasiliiana* (LAMARCK, 1811); Uruguay; 2 specimens; MZUJ/RG0575a-b; locally common.
2. *Adelomelon ancilla* (LIGHTFOOT, 1786); 100 miles south off Lobos Island, Uruguay, about 80 fathoms; 2 specimens; MZUJ/RG0593a-b.
3. *Alcithoe arabica* (GMELIN, 1791); Cheltenham Beach, Auckland; 2 specimens; MZUJ/RG0577a-b.
4. *Alcithoe arabica* f. *jaculoides* POWELL, 1924; Bay of Plenty, North Island, New Zealand; 1 specimen; MZUJ/RG0578; deepwater form.
5. *Alcithoe swainsoni* MARWICK, 1926; Parakaraumu, Wellington, New Zealand, 2 specimens; MZUJ/RG0576a-b.

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6. *Amoria (Amorena) undulata* (LAMARCK, 1804); South Australia; 1 specimen; MZUJ/RG0614.
7. *Amoria (Amoria) damonii* GREY, 1864; North Queensland, Australia. 1 specimen MZUJ/RG0581.
8. *Amoria (Amoria) maculata* (SWAINSON, 1882); Australia; 1 specimen; MZUJ/RG0579.
9. *Amoria (Amoria) maculata* (SWAINSON, 1882); Tryon Island, Capricorn Group, Queensland, Australia; 1 specimen; MZUJ/RG0580.
10. *Amoria (Relegamoria) mollieri* (IREDALE, 1936); Queensland, Australia; 1 specimen; MZUJ/RG0611.
11. *Amoria (Zebramoria) zebra* (LEACH, 1814); Queensland, Australia; 8 specimens; MZUJ/RG0612a-h.
12. *Cymbiola (Aulica) aulica* (SOWERBY I, 1825) f. *cathcartiae* (REEVE, 1856); Philippines; 1 specimen; MZUJ/RG0583; rare form.
13. *Cymbiola (Aulica) aulica* (SOWERBY I, 1825); Philippines; 2 specimens; MZUJ/RG0582a-b; quite rare.
14. *Cymbiola (Aulica) imperialis* (LIGHTFOOT, 1786); Philippines; 1 specimen; MZUJ/RG0621; juvenile specimens.
15. *Cymbiola (Aulica) nobilis* (LIGHTFOOT, 1786); Singapore; 2 specimens; MZUJ/RG0617 a-b.
16. *Cymbiola (Aulicina) rutila norrisii* (GRAY, 1838), Misima Island, Louisiade Archipelago (near New Guinea); 1 specimen; MZUJ/RG0618.
17. *Cymbiola (Aulicina) vespertilio* (LINNAEUS, 1758); Philippines; 5 specimens; MZUJ/RG0616a-e.
18. *Cymbiola africana* 1
19. *Cymbiolacca complexa* (IREDALE, 1924), dwarf form; Moreton Bay, trawled; MZUJ/RG0585f; dwarf deepwater form occurring near Cape Moreton, at depth 160 - 240 m.
20. *Cymbiolacca complexa* (IREDALE, 1924); Australia; 1 specimen; MZUJ/RG0603.
21. *Cymbiolacca complexa* (IREDALE, 1924); Moreton Bay, Queensland, Australia, trawled; 5 specimens; MZUJ/RG0585a-e
22. *Cymbiolacca peristicta* McMICHAEL, 1963; Swain Reefs, Queensland, Australia; 1 specimen; MZUJ/RG0584; rare.
23. *Cymbiolista hunteri* IREDALE, 1931, deepwater form; Australia; 1 specimen; MZUJ/RG0587.
24. *Cymbiolista hunteri* IREDALE, 1931; Australia, 1 specimen; MZUJ/RG0586.
25. *Cymbium broderipi*, 2 specimens;
26. *Cymbium cucuformis*, 1 specimen;
27. *Cymbium cucumis* RODING, 1798; Senegal, West Africa; 1 specimen; MZUJ/RG0592; uncommon.
28. *Cymbium cymbium* (LINNAEUS, 1758); Senegal, West Africa; 1 specimen; MZUJ/RG0589.
29. *Cymbium marocanus* (PALLARY, 1930); Zaire; 1 specimen; MZUJ/RG0590; quite rare.
30. *Cymbium olla* (LINNAEUS, 1758); Canary Islands, trawled by fishermen; 2 specimens; MZUJ/RG0588a-b; uncommon.
31. *Cymbium pepo* (LIGHTFOOT, 1786); Canary Islands; 1 specimen; MZUJ/RG0591; uncommon.
32. *Ericusa (Ericusa) sericata* THORNLEY, 1951, Philippines; 3 specimens; MZUJ/RG0619 a-c.
33. *Ericusa (Mesericusa) sowerbyi* (KIENER, 1839); Australia; 2 specimens; MZUJ/RG0594a-b.

34. *Fulgoraria (Fulgoraria) rupestris* (GMELIN, 1791); West coast of Taiwan; 2 specimens; MZUJ/RG0615a-b; quite rare.
35. *Harpulina lapponica* (LINNAEUS, 1767); Ceylon; 3 specimens; MZUJ/RG0595a-c.
36. *Lyria (Enaeta) cumingii* (BRODERIP, 1832); West Mexico; 2 specimens; MZUJ/RG0596 a-b; quite rare.
37. *Lyria (Lyria) delessertiana* (PETIT DE LA SAUSSAYE, 1842); 1 specimen; MZUJ/RG0599; uncommon.
38. *Lyria (Enaeta) barnesii* (GREY, 1825); West Mexico; 1 specimen; MZUJ/RG0597; quite rare.
39. *Lyria mitraeformis* (LAMARCK, 1811); West Australia; 2 specimens; MZUJ/RG0598a-b.
40. *Melo (Melocorona) broderipii* (GRIFFITH et PIDGEON, 1834); Philippines; 1 specimen; MZUJ/RG0633.
41. *Melo (Melocorona) miltonis* (GRIFFITH et PIDGEON, 1834); West Australia; 1 specimen; MZUJ/RG0601; juvenile and dwarf specimen.
42. *Melo melo* (LIGHTFOOT, 1786); Phuket; 3 specimens; MZUJ/RG0600a-c; juveniles.
43. *Nannamoria parabola* GARRARD, 1960; Moreton Island, Queensland, Australia; 1 specimen; MZUJ/RG0602; endemic.
44. *Scaphella (Aurinia) dubia* (BRODERIP, 1827) f. *kieneri* CLENCH, 1946; Florida; 1 specimen; MZUJ/RG0605; one of the numerous forms, part of which are connected with the substratum, the others being due to geographical variation of a clinal character.
45. *Scaphella (Aurinia) dubia* (BRODERIP, 1827); Florida; 1 specimen; MZUJ/RG0604.
46. *Scaphella (Scaphella) junonia* (LAMARCK, 1804); Daytona, dredged; 1 specimen; MZUJ/RG0606; dwarf specimen.
47. *Scaphella (Scaphella) junonia* (LAMARCK, 1804); Florida; 2 specimens; MZUJ/RG0607 a-b.
48. *Ternivoluta studeri* (VON MARTENS, 1897); Australia; 1 specimen; MZUJ/RG0609; although not found from 1875 till 1959, now regarded as moderately common at some localities.
49. *Voluta ebraea* LINNAEUS, 1758; Brasil; 2 specimens; MZUJ/RG0610a-b.
50. *Lyria (Harpeola) kurodai* (KAWAMURA, 1964); SW coast of Taiwan; 1 specimen; MZUJ/RG0620; type locality, outside of which unknown, rare.
51. *Volutoconus bednalli* (BRAZIER, 1878); Arafura Sea, North Australia; 1 specimen; MZUJ/RG0622; used to be regarded as rare, recently more specimens have been collected by the pearl fishermen.
52. *Volutoconus grossi grossi* (IREDALE, 1927); Australia; 1 specimen; MZUJ/RG0623; uncommon.
53. *Volutocorbis lutosa* KOCH, 1948; Cap Prio, West Africa, dredged; 1 specimen; MZUJ/RG0613.
54. *Volutocorbis lutosa* KOCH, 1948; S.W. Africa, trawled by fishermen at a depth of 130 - 170 fms; 1 specimen; MZUJ/RG0624.
55. *Zidona dufresnei* (DONOVAN, 1823); Puerto La Paloma, Roeha, Uruguay; 1 specimen; MZUJ/RG0626.
56. *Zidona dufresnei* (DONOVAN, 1823); south off Rocha, Uruguay, dredged; 1 specimen; MZUJ/RG0625.

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