

Contribution to the knowledge of the molluscan thanatocoenosis of Zannone Island (Pontine Archipelago, Latium, Italy). Additional reports

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ABSTRACT

In this second paper concerning the molluscan fauna of Zannone Island (Pontine Archipelago, Italy) one sediment sample collected by scuba diving at a depth of 36.5 meters at SW of the isle was investigated. Altogether, 47 taxa, not yet reported for Zannone, were identified, bringing the total number of the molluscan thanatocoenosis of the island at 327 taxa.

KEY WORDS

Mollusca; thanatocoenosis; Zannone Island; Italy.

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INTRODUCTION

In a previous paper on the Mollusca of Zannone Island, Fumanti (2014) reported 280 malacological taxa. Recently prof. Riccardo Lubrano has provided one of us (I. N.) with a sediment sample collected on August 11th 2013 by means of scuba diving by Mr. Nino Baglio at 36.5 m depth SW of Zannone Island. The study of the sample has led to the identification of several taxa, 47 of these, representing an increase of 14.4 % of the total, were not previously reported.

Finally, thanks to the finding of *Spinoaglaja wilpretii* (Ortea, Bacallado et Noro, 2003) by Romani & Pagli (2014), the molluscan thanatocoenosis of the Isle of Zannone consists now of 327 taxa. Furthermore, in this paper, other species, indicated with an asterisk, already reported in Fumanti (2014) have been added with revised and updated nomenclature recording the latest publication.

RESULTS

Taxonomic list

Classis GASTROPODA Cuvier, 1797
Ordo PATELLOGASTROPODA Lindenberg, 1986
Familia LOTTIIDAE Gray, 1840
Genus *Tectura* Gray, 1847

Tectura virginea (O.F. Müller, 1776)

Ordo VETIGASTROPODA Salvini-Plawen, 1980
Familia SCISSURELLIDAE Gray, 1847
Genus *Sinezona* Finlay, 1926

Sinezona cingulata (O.G.Costa, 1861)

Familia SKENEIDAE Clark, 1851
Genus *Skenea* Fleming, 1825

Skenea serpuloides (Montagu, 1808)

Ordo CAENOGASTROPODA Cox, 1960
 Familia SILIQUARIIDAE Anton, 1838
 Genus *Petalopoma* Schiapparelli, 2002

Petalopoma elisabettae Schiapparelli, 2002

Familia SKENEOPSIDAE Iridale, 1815
 Genus *Skeneopsis* Iridale, 1915

Skeneopsis planorbis (O. Fabricius, 1780)

Familia JANTHINIDAE Lamarck, 1822
 Genus *Janthina* Röding, 1798

Janthina pallida W. Thompson, 1840

Familia RISSOIDAE J.E. Gray, 1847
 Genus *Alvania* Leach in Risso, 1826

Alvania dictyophora (Philippi, 1844) group

NOTES. Actually this species is under investigation by Bruno Amati (Rome).

Genus *Setia* H. Adams et A. Adams, 1852

Setia turriculata Monterosato, 1884

Familia CYPRAEIDAE Rafinesque, 1815
 Genus *Naria* Broderip, 1837

Naria spurca (Linnaeus, 1758)

Familia LIMACINIDAE Gray, 1840
 Genus *Thielea* Strebel, 1908

Thielea inflata (d'Orbigny, 1836)

Genus *Limacina* Bosc, 1817

Limacina trochiformis (d'Orbigny, 1836)

Familia PERACLIDAE Tesch, 1913
 Genus *Peracle* Forbes, 1844

Peracle reticulata (d'Orbigny, 1836)

Familia MURICIDAE Rafinesque, 1815
 Genus *Dermomurex* Monterosato, 1890

Dermomurex scalaroides (Blainville, 1826)

Genus *Murexsul* Iridale, 1915

Murexsul aradasii (Monterosato in Poirer, 1883)

Familia MITROMORPHIDAE Casey, 1904
 Genus *Mitromorpha* Carpenter, 1865

**Mitromorpha columbellaris* (Scacchi, 1836)

**Mitromorpha olivoidea* (Cantraine, 1835)

NOTES. The nomenclature of the two species belonging to the genus *Mitromorpha*, previously reported in Fumanti (2014) are here updated according to Amati et al. (2015).

Ordo HETEROSTROPHA P. Fischer, 1885
 Familia OMALOGYRIDAE G.O. Sars, 1878
 Genus *Omalogyra* Jeffreys, 1859

Omalogyra atomus (Philippi, 1841)

Genus *Ammonicera* Vayssière, 1893

Ammonicera cfr. *andresi* Oliver et Rolán, 2015

**Ammonicera* cfr. *fischeriana* (Monterosato, 1869)

Ammonicera cfr. *superstriata* Oliver et Rolán, 2015

NOTES. The determination of the species belonging to the genus *Ammonicera*, according to the recent review of this genus (Oliver & Rolán, 2015) and without SEM observations, has led to considerable difficulties and is proposed here with a wide margin of uncertainty.

Familia PYRAMIDELLIDAE Gray, 1840
 Genus *Parthenina* Bucquoy, Dautzenberg et Dollfus, 1883

Parthenina clathrata (Jeffreys, 1848)

**Parthenina dollfusi* (Kobelt, 1903)

**Parthenina emaciata* (Brusina, 1866)

**Parthenina interstincta* (J. Adams, 1797)

**Parthenina monozona* (Brusina, 1869)

**Parthenina moolenbeechei* (Amati, 1987)

**Parthenina penchynati* (Bucquoy, Dautzenberg et Dollfus, 1883)

Parthenina suturalis (Philippi, 1844)

NOTES. As regards to Pyramidellidae we decided to include the full list of the genera and species

reported for Zannone (both in this paper and in Fumanti, 2014) with the nomenclature updated according to Giannuzzi-Savelli et al. (2014).

Genus *Folinella* Dall et Bartsch, 1904

**Folinella excavata* (Philippi, 1844)

Genus *Odostomella* Bucquoy, Dautzenberg et Dollfus, 1883

**Odostomella doliolum* (Philippi, 1844)

Odostomella bicincta (Tiberi, 1868)

Genus *Euparthenia* Thiele, 1931

**Euparthenia humboldti* (Risso, 1826)

Genus *Eulimella* Forbes et Mac Andrew, 1846

Eulimella acicula (Philippi, 1836)

**Eulimella ventricosa* (Forbes, 1844)

Genus *Odostomia* Fleming, 1813

**Odostomia carrozzai* Van Aartsen, 1987

**Odostomia eulimoides* Hanley, 1844

**Odostomia lukisii* Jeffreys, 1859

**Odostomia scalaris* Mac Gillivray, 1843

Odostomia striolata (Forbes et Hanley, 1850)

**Odostomia turrata* Hanley, 1844

**Odostomia unidentata* (Montagu, 1803)

Genus *Megastomia* Monterosato, 1884

Megastomia alungata (Nordsieck, 1972)

**Megastomia conoidea* (Brocchi, 1814)

Genus *Ondina* De Folin, 1870

**Ondina vitrea* (Brusina, 1866)

Ondina scadens (Monterosato, 1844)

Genus *Pyrgostylus* Monterosato, 1884

**Pyrgostylus striatulus* (Linnaeus, 1758)

Genus *Turbonilla* Risso, 1826

**Turbonilla pumila* G. Seguenza, 1876

Genus *Careliopsis* Morch, 1875

Careliopsis modesta (De Folin, 1870)

Familia MURCHISONELLIDAE Casey, 1904

Genus *Ebala* Gray, 1847

Ebala pointeli (De Folin, 1867)

Familia CIMIDAE Warén, 1993

Genus *Cima* Chaster, 1896

Cima cylindrica (Jeffreys, 1856)

Cima minima (Jeffreys, 1858)

Familia TOFANELLIDAE Bandel, 1995

Genus *Graphis* Jeffreys, 1867

Graphys albida (Kanmacher, 1798)

Ordo CEPHALAPSIDEA Fischer, 1883

Familia PLEUROBRANCHIDAE Gray, 1827

Genus *Berthella* Blainville, 1824

Berthella sp.

Familia RETUSIDAE Thiele, 1925

Genus *Volvulella* Newton, 1891

Volvulella acuminata (Broguière, 1792)

Familia PHILINIDAE Gray, 1850

Genus *Philine* Ascanius, 1772

Philine catena (Montagu, 1803)

Philine angulata Jeffreys, 1867

Genus *Petalifera* Gray, 1847

Petalifera cf. *gravieri* (Vayssiere, 1906)

Familia AGLAJIDAE Pilsbry, 1895

Genus *Spinoaglaja* Ortea, Moro et Espinosa, 2007

Spinoaglaja wilpretii (Ortea, Bacallado et Noro, 2003)

NOTES. Species reported on the basis of one specimen (3.3 mm) devoid of soft part at 36 m of depth.

Classis BIVALVIA Linnaeus, 1758
 Ordo SOLEMYOIDA Dall, 1889
 Familia NUCULIDAE Gray, 1824
 Genus *Nucula* Lamarck, 1799

Nucula sp. (juv.)

Ordo MYTILOIDA Férussac, 1822
 Familia MYTILIDAE Rafinesque, 1815
 Genus *Crenella* T. Brown, 1827

Crenella pellucida (Jeffreys, 1850)

Genus *Dacrydium* Torell, 1859

Dacrydium hyalinum Monterosato, 1875

Familia ANOMIIDAE Rafinesque, 1815
 Genus *Pododesmus* Philippi, 1837

Pododesmus sp.

Ordo LUCINIDAE Gray, 1854
 Familia LUCINIDAE Fleming, 1828
 Genus *Anodontia* Link, 1807

Anodontia fragilis Philippi, 1836

Genus *Loripes* Poli, 1791

Loripes lucinalis (Lamarck, 1818)

Familia MONTACUTIDAE W. Clark, 1855
 Genus *Montacuta* Turton, 1822

Montacuta substriata (Montagu, 1808)

Ordo VENEROIDA Gray, 1854
 Familia CARDIIDAE Lamarck, 1809
 Genus *Laevicardium* Swainson, 1846

Laevicardium crassum (Gmelin, 1791)

Familia TELLINIDAE Blainville, 1814
 Genus *Arcopagia* Brown, 1877

Arcopagia balaustina (Linnaeus, 1758)

Familia PSAMMOBIIDAE Fleming, 1828
 Genus *Gari* Schumacher, 1817

Gari costulata Turton, 1822

Gari depressa (Pennant, 1777)

Classis SCAPHOPODA Bronn, 1862
 Ordo DENTALIIDAE da Costa, 1776
 Familia DENTALIDAE J.E. Gray, 1834
 Genus *Antalis* H. Adams et A. Adams, 1854

Antalis vulgaris da Costa, 1778

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