

***Mycale (Aegogropila) magellanica* (Porifera: Demospongiae) in the southwestern Atlantic Ocean: endobiotic fauna and new distributional information**

LAURA SCHEJTER, IGNACIO L. CHIESA, BRENDA L. DOTI and CLAUDIA BREMEC

Supplementary material

APPENDIX 1. – Endobiotic fauna of Porifera from several regions, considering the morphology of the sponge, bathymetric distribution, latitude, richness and dominant taxon group. Fishes and microbial symbionts were not considered. (1) The reference to the endobionts of this species does not provide a description of the general morphology. (2) The reference to the endobionts of this species does not provide a description of the general morphology, which is provided from another source in brackets.

Species	Morphology	Location	Depth (m)	N° associated species (habits)	Dominant taxa	Source
<i>Agelas clatroides</i> (Schmidt, 1870)	Massive	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	No data	Polychaeta (16 taxa)	Neves and Omena (2003)
<i>Agelas dispar</i> Duchassaing and Michelotti, 1864	Massive	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	No data	Polychaeta (16 taxa)	Neves and Omena (2003)
<i>Agelas oroides</i> (Schmidt, 1864)	(1)	N Aegean Sea (40°N)	3-6	61	Polychaeta (32 taxa)	Koukouras <i>et al.</i> (1985)
	Massive, lobate	N Aegean Sea (40°N)	15-20	135 (mainly endobionts)	Unavailable	Koukouras <i>et al.</i> (1996)
<i>Aiolochoiria crassa</i> (Hyatt, 1875)	Lobate	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	No data	Polychaeta (16 taxa)	Neves and Omena (2003)
<i>Amphimedon compressa</i> (Duchassaing and Michelotti, 1864) as <i>Haliclona rubens</i>	(1)	Caribbean Sea (Bimini Is.)	1-2	11	Crustacea (6 taxa)	Pearse (1950)
<i>Amphimedon compressa</i> (Duchassaing and Michelotti, 1864)	Lobate	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	No data	Polychaeta (16 taxa)	Neves and Omena (2003)
<i>Amphimedon viridis</i> Duchassaing and Michelotti, 1864	(1)	Gulf of Mexico (Florida, 29°N)	1-2	10 (endobionts and epibionts)	Crustacea (7 taxa)	Huang <i>et al.</i> (2008)
	Lobate	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	No data	Polychaeta (16 taxa)	Neves and Omena (2003)
<i>Aplysina aerophoba</i> Nardo, 1833	Digitated	N Aegean Sea (40°N)	3-6	104	Crustacea (39 taxa)	Koukouras <i>et al.</i> (1985)
as <i>Verongia aerophoba</i>	(1)	N Aegean Sea (40°N)	15-20	184 (mainly endobionts)	No data	Koukouras <i>et al.</i> (1996)
<i>Aplysina</i> sp.	Lobate	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	No data	Polychaeta (16 taxa)	Neves and Omena (2003)
<i>Axinella cannabina</i> (Esper, 1794)	Erect, irregularly branched	N Aegean Sea (40°N)	15-20	84 (mainly endobionts)	No data	Koukouras <i>et al.</i> (1996)
<i>Axinella infundibuliformis</i> (Linnaeus, 1759) as <i>Tragosia infundibuliformis</i>	Elastic, foliaceous or funnel-shaped	NE Atlantic (Faroe Islands, 62°N)	157-780	15 (mostly epifauna)	Polychaeta (5 taxa)	Klitgaard (1995)
<i>Axinella polycapella</i> de Laubenfels, 1953	Slightly upright, few short branches	NW Atlantic, 31°N	58-66	19	Crustacea (14 taxa)	Kjellin Green (2008)
<i>Axinella rugosa</i> (Bowerbank, 1866) as <i>Phakellia rugosa</i>	Elastic, ramified	NE Atlantic (Faroe Islands, 62°N)	157-780	28 (mostly epifauna)	Ophiuroidea (6 taxa)	Klitgaard (1995)
<i>Clathria (Clathria) prolifera</i> (Ellis and Solander, 1786) as <i>Microcionia prolifera</i>	Erect, branching and bushy	NW Atlantic, Washington	Subtidal	52	Crustacea	Long (1968)
<i>Clathria (Thalysias) schoemus</i> (de Laubenfels, 1936) as <i>Aulospongia schoemus</i>	Branching	Caribbean Sea (Bimini Is.)	1-2	3	Polychaeta (2 taxa)	Pearse (1950)
<i>Geodia barretti</i> Bowerbank, 1858	Solid, massive	NE Atlantic (Faroe Islands, 62°N)	157-780	8 (mostly epifauna)	Polychaeta (3 taxa)	Klitgaard (1995)

Species	Morphology	Location	Depth (m)	N° associated species (habits)	Dominant taxa	Source
<i>Geodia cydonium</i> (Jameson, 1811)	(2) Solid, globular (from Johnston 1842)	Aegean Sea (40°N)	3-6	98	Crustacea (40 taxa)	Koukouras <i>et al.</i> (1985)
<i>Geodia macandrewii</i> Bowerbank, 1858	Solid, massive	NE Atlantic (Faroe Islands, 62°N)	157-780	57 (mostly epifauna)	Polychaeta (21 taxa)	Klitgaard (1995)
<i>Geodia</i> sp.	Solid, massive	NE Atlantic (Faroe Islands, 62°N)	157-780	23 (mostly epifauna)	Polychaeta (6 taxa)	Klitgaard (1995)
<i>Halichondria panicea</i> (Pallas, 1966)	Encrusting	NW Atlantic	Intertidal	68	Crustacea	Long (1968)
<i>Haliclona</i> sp.1	Amorphous, chimney-like oscules	SW Australia (30-40°S)	10-15	23 (endobionts)	Crustacea (15 taxa)	Abdo (2007)
<i>Haliclona</i> sp.2	Mound-shaped, compact	SW Australia (30-40°S)	10-15	23 (endobionts)	Crustacea (15 taxa)	Abdo (2007)
<i>Hippospongia communis</i> (Lamarck, 1814)	(2) Massive, compact, and usually roughly spherical (from Cook and Bergquist 2002a)	Mediterranean, Tunisia	14	24	Crustacea (11 taxa)	Rützler (1976)
<i>Hymeniacion sanguinea</i> (Grant, 1827) sensu Burton, 1840 (currently, this species needs revision)	Encrusting	SW Atlantic (Mar del Plata, 38°S)	Intertidal ponds	33 (endobionts and epibionts)	Crustacea (12 taxa)	Cuartas and Excoffon (1993)
<i>Ircinia felix</i> (Duchassaing and Michelotti, 1864)	Lobate	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	no data	Polychaeta (16 taxa)	Neves and Omena (2003)
		NO Atlantic, 31°N	58-66	84	Crustacea (31 taxa)	Kjellin Green (2008)
<i>Ircinia oros</i> (Schmidt, 1864) (from the original description)	(2) Massive, rounded	Mediterranean, Tunisia	14	6	Polychaeta	Rützler (1976)
<i>Ircinia retidermata</i> Pulitzer-Finali and Pronzato, 1981	Hemispherical	E Mediterranean	830	4	Polychaeta (3 taxa)	Ilan <i>et al.</i> (1994)
<i>Ircinia strobilina</i> (Lamarck, 1816) as <i>Hircinia strobilina</i>	Solid, firm (loggerhead)	Caribbean Sea (Bimini Is.)	1-2	30	Polychaeta (11 taxa)	Pearse (1950)
<i>Ircinia variabilis</i> (Schmidt, 1864)	(2) Variable, massive or thickly encrusting (from the original description)	Mediterranean, Tunisia	14	16	Crustacea (8 taxa)	Rützler (1976)
<i>Iotrochota birotulata</i> (Higgin, 1877) as <i>Iotrochota brotulata</i>	Branching	Caribbean Sea (Bimini Is.)	1-2	4	Crustacea (2 taxa)	Pearse (1950)
<i>Isops phlegraei</i> Sollas, 1880	Solid, massive	NE Atlantic (Faroe Islands, 62°N)	157-780	44 (mostly epifauna)	Bryozoa (11 taxa)	Klitgaard (1995)
<i>Mycale</i> (Z.) <i>angulosa</i> (Duchassaing and Michelotti, 1864) as <i>Zygomycale parishi</i>	Globose to fistulous	SW Atlantic (Sao Paulo, 23°S)	Subtidal	98	Polychaeta (39 taxa)	Duarte and Nalesso (1996)
<i>Mycale</i> (A.) <i>magellanica</i> (Ridley, 1881)	Massive	SW Atlantic, Argentina	103-107	23 (mostly endobionts)	Crustacea (10 taxa)	Present study

Species	Morphology	Location	Depth (m)	N° associated species (habitats)	Dominant taxa	Source
<i>Mycale (C.) microsigmata</i> Arndt, 1927	Encrusting, can be massive	SW Atlantic (Rio de Janeiro, 23°S)	1-5	75 (endobionts and epibionts)	Crustacea (31 taxa)	Ribeiro <i>et al.</i> (2003)
<i>Mycale (A.) syrinx</i> (Schmidt, 1862)	(2) Erect, branched (from Lévi 1960)	N Aegean Sea	Not given	No data	Crustacea (6 taxa)	Voultsiadou- Koukoura and Koukouras (1993)
<i>Paraleucilla magna</i> Klatau, Monteiro and Borojevic 2004	(2) Massive (from the original description)	SW Atlantic (Rio de Janeiro, 23°S)	Harbour areas	48	Crustacea (11 taxa)	Padua <i>et al.</i> (2010)
<i>Petrosia ficiformis</i> (Poiret, 1789)	(2) Variable; usually spherical and cylindrical (from Bavestrello and Sara 1992)	N Aegean Sea (40°N)	3-6	91	Crustacea (43 taxa)	Koukouras <i>et al.</i> (1985)
<i>Phakellia robusta</i> Bowerbank, 1866	Elastic, foliaceous or funnel-shaped	NE Atlantic (Faroe Islands, 62°N)	157-780	42 (mostly epifauna)	Bryozoa (13 taxa)	Klitgaard (1995)
<i>Phakellia ventilabrum</i> (Linnaeus, 1767)	Elastic, foliaceous or funnel-shaped	NE Atlantic (Faroe Islands, 62°N)	157-780	22 (mostly epifauna)	Bryozoa (7 taxa)	Klitgaard (1995)
<i>Plakortis</i> sp.	Encrusting	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	No data	Polychaeta (16 taxa)	Neves and Omena (2003)
<i>Plakortis</i> sp.	Massive	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	no data	Polychaeta (16 taxa)	Neves and Omena (2003)
<i>Ptilocaulis walpersi</i> (Duchassaing and Michelotti, 1864)	Upright, branched	NW Atlantic, 31°N	58-66	60	Crustacea (23 taxa)	Kjellin Green (2008)
<i>Sarcotragus fasciculatus</i> (Pallas, 1766) as <i>Ircinia fasciculata</i>	(2) Massive, irregular, and encrusting; usually	N Aegean Sea (40°N)	3-6	151	Polychaeta (61 taxa)	Koukouras <i>et al.</i> (1985)
as <i>I. fasciculata</i>	upright and digitate (from Cook and Bergquist 2002b)	Mediterranean, Tunisia	14	13	Crustacea (7 taxa)	Rützler (1976)
<i>Sarcotragus foetidus</i> (Schmidt, 1862) as <i>Ircinia muscarum</i>	(1)	N Aegean Sea (40°N)	3-6	90	Polychaeta and Crustacea (37 taxa each)	Koukouras <i>et al.</i> (1985)
as <i>I. muscarum</i>		Mediterranean, Tunisia	14	14	Crustacea (10 taxa)	Rützler (1976)
as <i>Sarcotragus muscarum</i>	Massive, globular	E Mediterranean	830	4	Polychaeta (4 taxa)	Ilan <i>et al.</i> (1994)
<i>Sphaciospongia vesparium</i> (Lamarck, 1815) as <i>Sphaciospongia vesparia</i>	Solid, firm, hemispherical to barrel-shaped (loggerhead)	Caribbean Sea (Bimini Is.)	1-2	9	Crustacea (9 taxa)	Pearse (1950)
		(Curacao and Bonaire Is.)	3-60	26	Crustacea (18 taxa)	Westinga and Hoetjes (1981)
<i>Spongia officinalis</i> Linnaeus, 1759	(2) Variable, usually massive spherical, lamellate, caliculate, or low and spreading (from Cook and Bergquist 2002a)	N Aegean Sea (40°N)	3-6	89	Polychaeta (36 taxa)	Koukouras <i>et al.</i> (1985)

Species	Morphology	Location	Depth (m)	N° associated species (habits)	Dominant taxa	Source
<i>Spongia zimocca</i> Schmidt, 1862	(2) Variable, massive, generally irregularly lobate (from Castritsi-Catharios <i>et al.</i> 2001)	Mediterranean, Tunisia	14	13	Crustacea (6 taxa)	Rützler (1976)
<i>Stryphnus ponderosus</i> (Bowerbank, 1866)	Solid, massive	NE Atlantic (Faroe Islands, 62°N)	157-780	122 (mostly epifauna)	Polychaeta (35 taxa)	Klitgaard (1995)
<i>Suberites latus</i> Lambe, 1893 as <i>S. lata</i>	Massive, tough	NW Atlantic	5-10	25	Polychaeta	Long (1968)
<i>Thenaea levis</i> Lendenfeld, 1907	Solid, elongate	NE Atlantic (Faroe Islands, 62°N)	157-780	108 (mostly epifauna)	Polychaeta (38 taxa)	Klitgaard (1995)
<i>Thenaea valdiviae</i> Lendenfeld, 1907	Solid, spherical or lump-formed	NE Atlantic (Faroe Islands, 62°N)	157-780	90 (mostly epifauna)	Polychaeta (41 taxa)	Klitgaard (1995)
<i>Topsentia ophiraphidites</i> (de Laubenfels, 1934)	Massive	SW Atlantic (Rocas Atoll, 3°S)	Intertidal pools and semi-enclosed lagoon	No data	Polychaeta (16 taxa)	Neves and Omena (2003)