

Supporting Information

A well-kept treasure at depth: Precious red coral rediscovered in Atlantic deep coral gardens (SW Portugal) after 300 years

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S1 Table. Taxa observed in the Atlantic red coral (*Corallium rubrum*) benthic assemblage.

Species or Taxa	Group
Characteristic species of Atlantic red coral communities (Reefs 1-3)	
<i>Corallium rubrum</i> (Linnaeus, 1758)	Anthozoa
<i>Dendrophyllia cornigera</i> (Lamarck, 1816)	Anthozoa
<i>Reteporella</i> cf. <i>grimaldii</i> (Julien, 1903)	Bryozoa
Accompanying species	
<i>Axinella</i> sp. (Schmidt, 1862)	Porifera
Axinellidae (Carter, 1875)	Porifera
cf. <i>Geodia</i> sp. (Bowerbank, 1858)	Porifera
cf. <i>Pachastrella monilifera</i> (Schmidt, 1868)	Porifera
cf. <i>Poecillastra compressa</i> (Bowerbank, 1866)	Porifera
cf. <i>Tedania</i> (<i>Tedania</i>) <i>urgorri</i> (Cristobo, 2002)	Porifera
cf. <i>Tethya</i> sp. (Lamarck, 1815)	Porifera
Demospongiae (Sollas, 1885) 1	Porifera
Demospongiae (Sollas, 1885) 2	Porifera
Demospongiae (Sollas, 1885) 3	Porifera
Demospongiae (Sollas, 1885) 4	Porifera
Demospongiae (Sollas, 1885) 5	Porifera
Demospongiae (Sollas, 1885) 6	Porifera
Demospongiae (Sollas, 1885) 7	Porifera
<i>Desmacidon fruticosum</i> (Montagu, 1814)	Porifera
<i>Phakellia robusta</i> (Bowerbank, 1866)	Porifera
<i>Phakellia ventilabrum</i> (Linnaeus, 1767)	Porifera
<i>Stylocordyla</i> cf. <i>pellita</i> (Topsent, 1904)	Porifera
Hydrozoa (Owen, 1843)	Hydrozoa
<i>Halecium halecinum</i> (Linnaeus, 1758)	Hydrozoa
Aglaopheniidae (Marktanner-Turneretscher, 1890)	Hydrozoa
<i>Alcyonium glomeratum</i> (Hassal, 1843)	Anthozoa
<i>Alcyonium</i> sp. (Linnaeus, 1758)	Anthozoa
<i>Dendrophyllia ramea</i> (Linnaeus, 1758)	Anthozoa
<i>Eunicella</i> sp. (Verrill, 1869)	Anthozoa
<i>Eunicella verrucosa</i> (Pallas, 1766)	Anthozoa
<i>Paramuricea clavata</i> (Risso, 1826)	Anthozoa
<i>Parazoanthus axinellae</i> (Schmidt, 1862)	Anthozoa
<i>Sabella</i> sp. (Linnaeus, 1767)	Polychaeta
<i>Sabella spallanzanii</i> (Gmelin, 1791)	Polychaeta
Serpulidae (Rafinesque, 1815)	Polychaeta
<i>Palinurus elephas</i> (Fabricius, 1787)	Crustacea
<i>Neopycnodonte cochlear</i> (Poli, 1795)	Bivalvia
Brachiopoda (Duméril, 1805)	Brachiopoda

<i>Myriapora truncata</i> (Pallas, 1766)	Bryozoa
<i>Astrospartus mediterraneus</i> (Risso, 1826)	Echinodermata
<i>Centrostephanus longispinus</i> (Philippi, 1845)	Echinodermata
<i>Echinaster (Echinaster) sepositus</i> (Retzius, 1783)	Echinodermata
<i>Holothuria (Panningothuria) forskali</i> (Delle Chiaje, 1823)	Echinodermata
<i>Holothuria</i> sp. (Linnaeus, 1767)	Echinodermata
<i>Marthasterias glacialis</i> (Linnaeus, 1758)	Echinodermata
Ascidiacea (Nielsen, 1995)	Tunicata
<i>Halocynthia papillosa</i> (Linnaeus, 1767)	Tunicata
<i>Acantholabrus palloni</i> (Risso, 1810)	Pisces
<i>Anthias anthias</i> (Linnaeus, 1758)	Pisces
Actinopteri	Pisces
<i>Scorpaena</i> sp. (Linnaeus, 1758)	Pisces
<i>Serranus cabrilla</i> (Linnaeus, 1758)	Pisces
<i>Trisopterus luscus</i> (Linnaeus, 1758)	Pisces
Co-occurring species	
<i>Alcyonium palmatum</i> (Pallas, 1766)	Anthozoa
cf. <i>Alcyoniina</i>	Anthozoa
cf. <i>Veretillum cynomorium</i> (Pallas, 1766)	Anthozoa
<i>Ellisella paraplexauroides</i> Stiasny, 1936	Anthozoa
<i>Eunicella filiformis</i> (Studer, 1879)	Anthozoa
Octocorallia (Haeckel, 1866)	Anthozoa
<i>Bonellia viridis</i> (Rolando, 1821)	Echiura
Clupeidae (Cuvier, 1817)	Pisces
<i>Diplodus vulgaris</i> (Geoffroy Saint-Hilaire, 1817)	Pisces
Characteristic species of gold coral communities (Reef 4)	
<i>Savalia savaglia</i> (Bertoloni, 1819)	Anthozoa
cf. <i>Geodia barretti</i> (Bowerbank, 1858)	Porifera
<i>Pawsonia saxicola</i> (Brady & Robertson, 1871)	Echinodermata