

A PHOTOGRAPHIC GUIDE OF THE SPECIES OF THE
GORRINGE BANK



Direção-Geral de Política do Mar



Front cover: Bathymetric contours of the Gorrige Bank derived from data from the European Marine Observation and Data Network (EMODnet): <http://portal.emodnet-bathymetry.eu/>

RECOMMENDED CITATION

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MEDIA

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COLLABORATIONS



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AUTHOR'S NOTE

This guide was initially developed as a tool for helping in the identification of species recorded in video imagery during our Remote Operated Vehicle (ROV) surveys in the summit of the Gorringer Bank. Therefore, all the images contained in this guide were acquired from high-definition video taken by the vehicle imaging systems. There are, of course, many more species present in the seamounts, but those contained in this guide were either the most commonly seen in our surveys or those of a more conspicuous appearance and whose image quality would allow a better taxonomic identification.

There is an inherent difficulty with species identification based on images and we made an effort to identify each organism to the lowest taxonomic level possible. However some species are far more challenging, and proper identification cannot be done based on images alone and has to be conducted in laboratory conditions. These species, most belonging to the Porifera, were left unassigned but were still kept in this book as an evidence of the existing biodiversity.

We hope to keep this guide updated, as images of new species and a better taxonomic information about observed species becomes available.



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FOREWORD



RICARDO AGUILAR

DIRECTOR OF PROJECTS AND RESEARCH
OCEANA

Ever since I first became aware of the existence of the Gorringe Bank it has been a priority in my list of places to study. Luckily, I have been able to visit the area on several occasions and to witness its wealth with my own eyes.

There are very few places in the world where you can see such interesting, diverse ecosystems and with such a wide bathymetric range. The seamounts are home to both shallow photophilic habitats and great abyssal darkness, to communities of kelp and calcareous algae and also to communities of corals, gorgonians, hydrocorals and sponge aggregations. It is an oasis of life in the middle of the Atlantic Ocean that gives rise to both endemism and also makes it into a place of passage for highly migratory species, including birds, sharks and marine mammals. The use of submarine robots and other methods of sampling have allowed us not only to discover the biodiversity but also to observe the behaviour and distribution of a number of little known species. These include small brave fish that had to cope with something as strange as an ROV in their midst, lobsters feeding among the extensive beds of oysters, and Mediterranean gorgonians covering the slopes of these Atlantic peaks.

The waters and sea beds of the Gorringe bank are home to as many species and communities as questions, which makes them especially appealing to any researcher. For this reason, this guide plays a fundamental role, opening a window to the understanding of the ecosystems of seamounts and the importance of their conservation.



JORGE M.S. GONÇALVES

RESEARCHER
CENTRE OF MARINE SCIENCES

I heard about the Gorringe Bank for the first time at school when I was told that it was most probably the region of the epicenter of the strong earthquake that destroyed Lisbon and the coastal cities of the Algarve in 1755. Later on, in the 90s I watched in Sagres (SW of Portugal) the landing of tons of scabbard fish that were caught in this well-known fishing bank by the local longline fishery community. And it was because of a regional NGO – Atlântico Selvagem (AS, Faro) that I became aware of one the best features of this magnificent underwater mountain: its unique biodiversity. From 1998 till now I have collaborated in 7 campaigns organized by AS – (1998-2000, 2003), the University Lusófona (2006), University of Hamburg (2009) and Oceana (2011-2012) helping with the fish identification.

The information collected by visual census (scuba diving, video transects, ROV) allowed us to document an oasis of marine life in the middle of the Ocean, with species and habitats not expected at 125 nautical miles from land such as kelps forests and maerl beds. Deeper we could observe extraordinary coral gardens and sponge aggregations that were already proposed by OCEANA to be part of the OSPAR priority habitats. We found that most of the fish species were related to the Mediterranean, the Portuguese mainland and to the Macaronesia (Azores, Madeira and Canarias) coasts suggesting that the summit of these seamounts may have acted and still act as “stepping stones” for the dispersal of coastal species. During these scientific cruises several endemic species were identified and the presence of several priority habitats and species motivated the Portuguese environmental agency (ICNF) to propose this seamount as a new Marine Protected Area (Site of Community Importance – SCI) under the NATURA 2000 network. This guide is the contribution of several scientists to promote the knowledge of the marine biodiversity of this outstanding seamount as a tool to promote environmental awareness and the conservation of our oceans.





GORRINGE BANK

56°N 11°W

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5

GORRINGE BANK

Discovered in 1875 by the U.S.S. Gettysburg, the Gorringe ridge (originally known as Gorringe Bank)¹ is an underwater mountain located around 270 Km WSW of cape São Vicente (Portugal) and is composed of two distinctive peaks: the Gettysburg and the Ormonde. These seamounts rise above the surrounding Tagus and Horseshoe abyssal plains at more than 5000 metres depth to less than 40 metres below the ocean surface, making the summit of both seamounts moderately accessible, even to scuba divers^{2,3}.

GEOLOGY

The Gorringe Bank is positioned where the African and Euro-Asiatic plates converge and collide and near to the epicenter of the 1755 Lisbon earthquake. While most seamounts are considered extinct vulcanoes, Gettysburg and Ormonde are thought to be uplifted oceanic crust and mantle, originated by seafloor spreading during the genesis of the Atlantic Ocean⁴.

The Gorringe bank is mainly composed of serpentinites, gabbros and basalts often covered by sedimentary layers⁵.

BIOLOGY

The Gorringe bank is regarded as a hot-spot of biodiversity. There are currently 862 species recorded⁶, including marine mammals and reptiles as well as species protected by the Habitats Directive. Because these seamounts rise from the abyssal plains to the photic zone, a wide range of habitats is present⁷, from kelp forest at the top, to cold water coral gardens and sponge dominated communities as the depth increases. Some of the habitats present are also listed in the OSPAR convention.

GORRINGE BANK AS A SCI

In 2015 the Gorringe Bank was proposed as Site of Community Importance becoming part of the Natura 2000 network in the marine environment⁸.

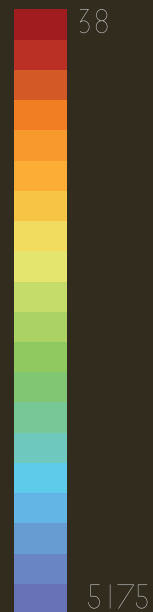
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3D digital model of the Gorringe Bank generated from data from the European Marine Observation and Data Network (EMODnet); <http://portal.emodnet-bathymetry.eu/>
vertical exaggeration: 14 x

DEPTH

meters



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EXPLORING THE SUMMIT

The Gorringe bank has been the subject of a few scientific expeditions, the majority focusing in the geology and sismology, and only few were able to gather biological information using trawls and dredges.

It was only in the late 90's, that a small team of researchers, using scuba diving, conducted the first visual assessment of

the marine life at these seamounts. Since then the seamounts have been visited in rare occasions, and while limited to the first metres of the summit of the seamounts, some additional information was added to our limited knowledge of the biology of the Gorringe bank.

In August 2011 and October 2012, Oceana devoted two oceanic expeditions

to visit the Gorringe Bank. Equipped with a Remote Operated Vehicle (ROV), the aim was to explore and document the ecosystems at the summit of the seamounts down to 550 metres depth. The team accomplished 20 dives along both seamounts, recording almost 40 hours of video at the bottom that revealed the wide range of habitats and species present.



HOW TO USE THIS GUIDE

Scientific name
the lowest taxonomic level
we could achieve based on
our current knowledge

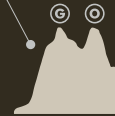
• *Antipathella subpinnata*

• (Ellis & Solander, 1786)

Class: Anthozoa
Order: Antipatharia
Family: Myriopathidae

Seamount

the seamount(s) where the
image(s) of the organism were
collected will be highlighted:
G - Gettysburg
O - Ormonde



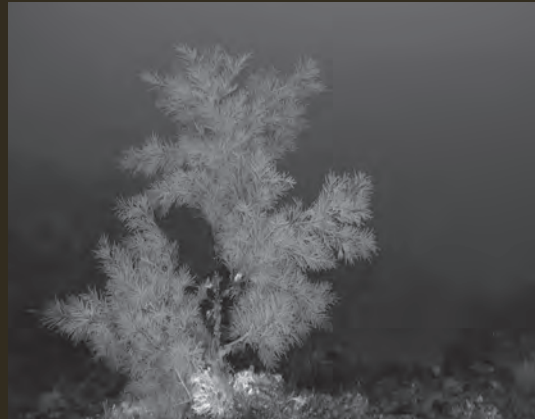
Authority

who first published a
description and name for
this taxon

Higher taxonomic ranks

Image(s)

the best image(s) acquired
from high-definition video
that would allow a proper
taxonomic identification
and future comparisons with
similar specimens



CNIDARIA

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OCHROPHYTA

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010

Desmarestia ligulata

(Stackhouse) J.V.Lamouroux, 1813

Class: Phaeophyceae
Order: Desmarestiales
Family: Desmarestiaceae



Dictyopteris polypodioides

(A.P.De Candolle) J.V.Lamouroux, 1809

Class: Phaeophyceae
Order: Dictyotales
Family: Dictyotaceae



OCHROPHYTA

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012

Zonaria tournefortii

(J.V.Lamouroux) Montagne, 1846

Class: Phaeophyceae
Order: Dictyotales
Family: Dictyotaceae



OCHROPHYTA

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013

Laminaria ochroleuca

Bachelot de la Pylaie, 1824

Class: Phaeophyceae
Order: Laminariales
Family: Laminariaceae



OCHROPHYTA

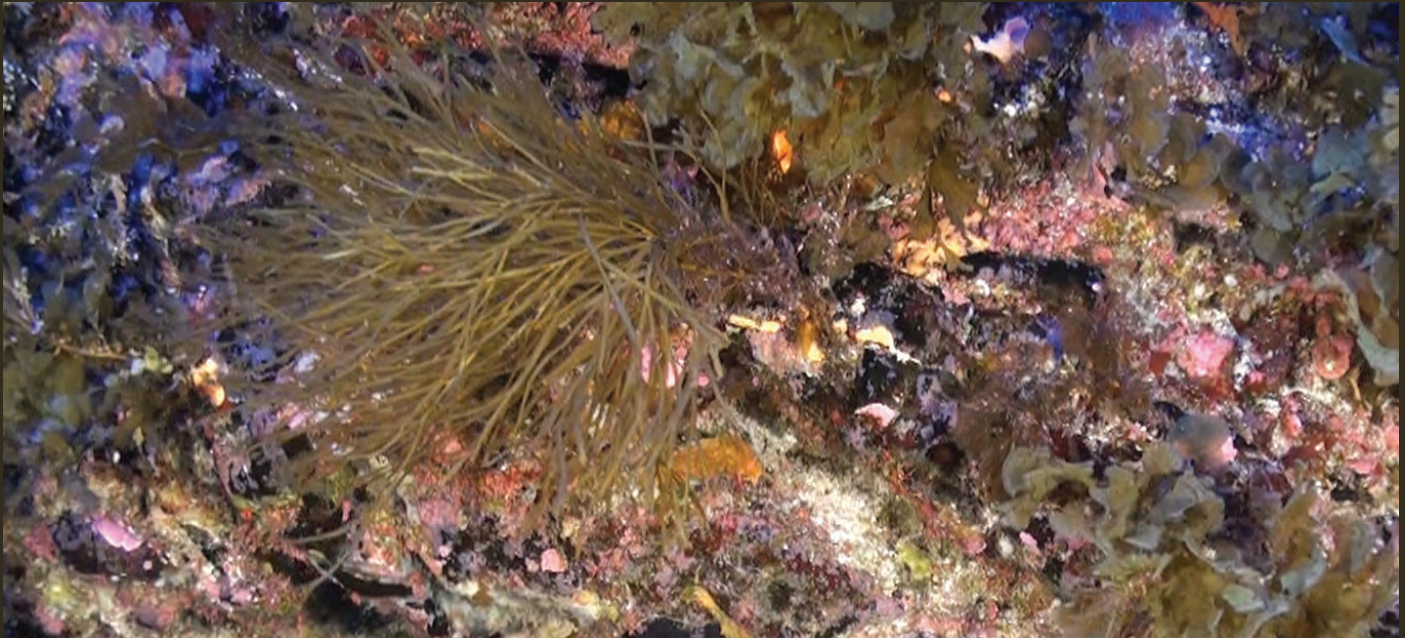
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014

Carpomitra costata

(Stackhouse) Batters, 1902

Class: Phaeophyceae
Order: Sporochinales
Family: Sporochnaceae



OCHROPHYTA

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GORRINGTON BANK

015



CHLOROPHYTA

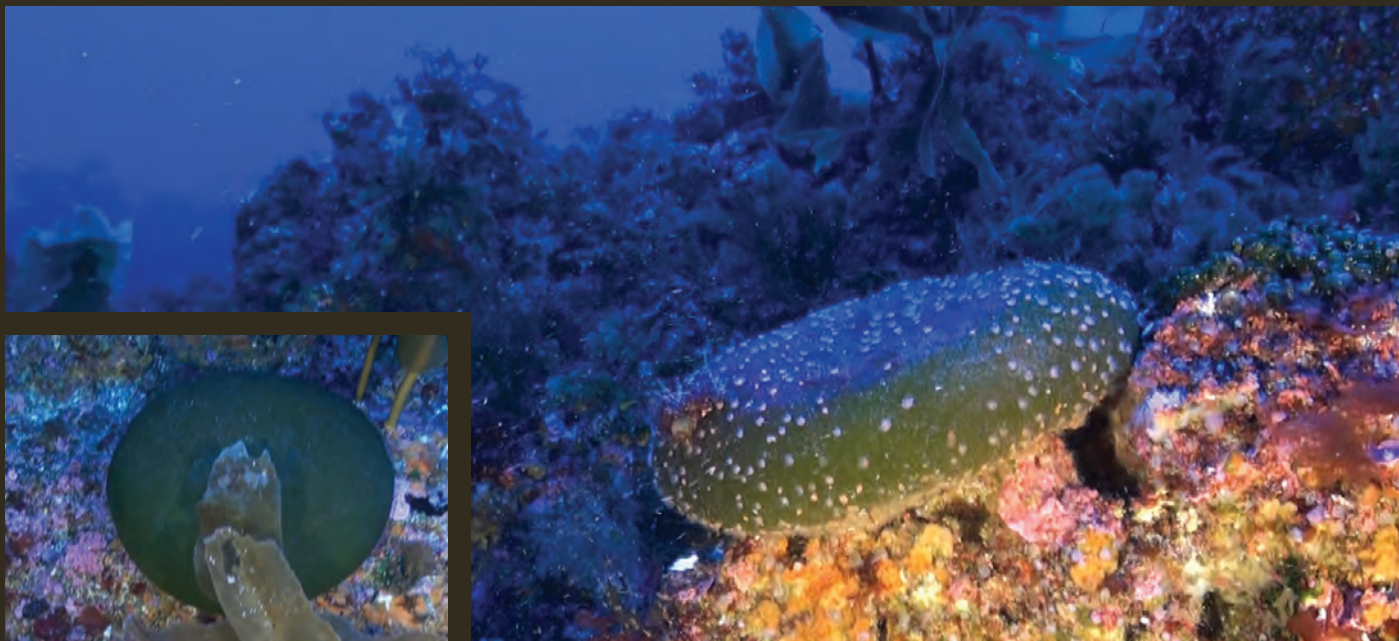
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016

Codium sp.

Stackhouse, 1797

Class: Ulvophyceae
Order: Bryopsidales
Family: Codiaceae



CHLOROPHYTA

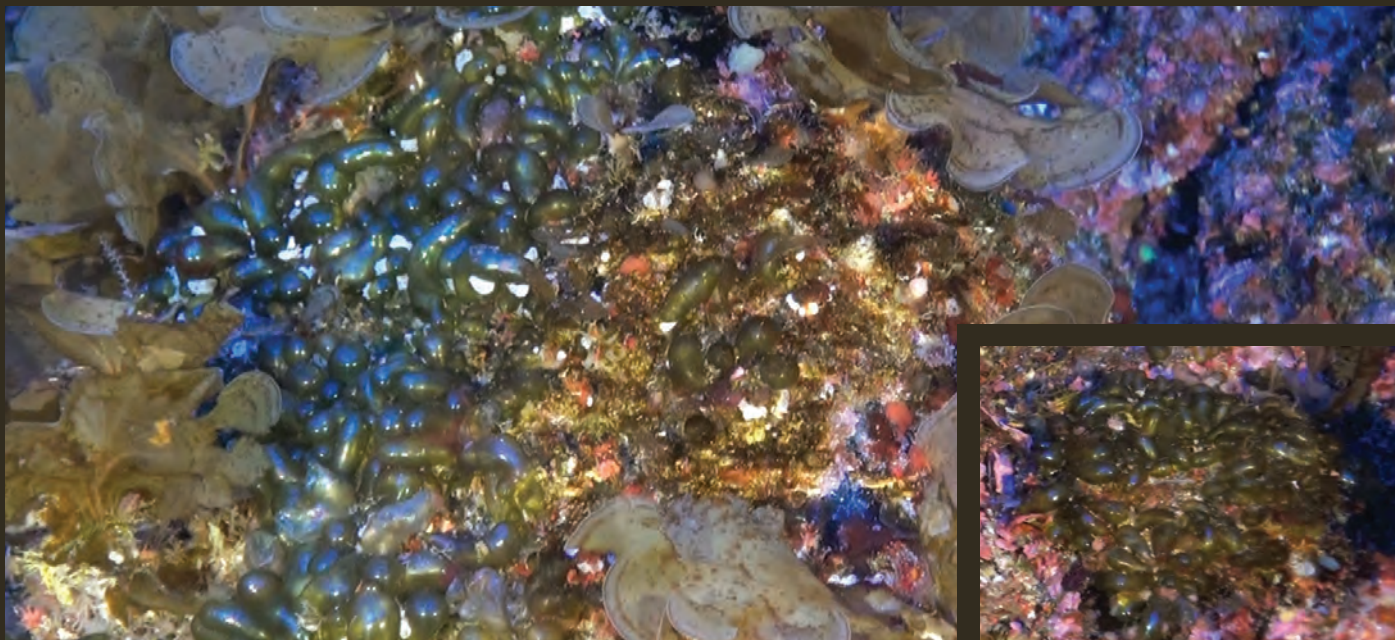
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017

Valonia macrophysa

Kützing, 1843

Class: Ulvophyceae
Order: Siphonocladales
Family: Valoniaceae



CHLOROPHYTA

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018



RHODOPHYTA

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019

Acrosymphyton purpuriferum

(J.Agardh) Sjöstedt, 1926

Class: Florideophyceae
Order: Acrosymphytales
Family: Acrosymphytaceae



RHODOPHYTA

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020

Lithothamnion corallioides

(P.L.Crouan & H.M.Crouan) P.L.Crouan & H.M.Crouan, 1867

Class: Florideophyceae
Order: Corallinales
Family: Corallinaceae



RHODOPHYTA

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021

Lithophyllum stictaeforme

(J.E. Areschoug) Hauck, 1877

Class: Florideophyceae
Order: Corallinales
Family: Corallinaceae



RHODOPHYTA

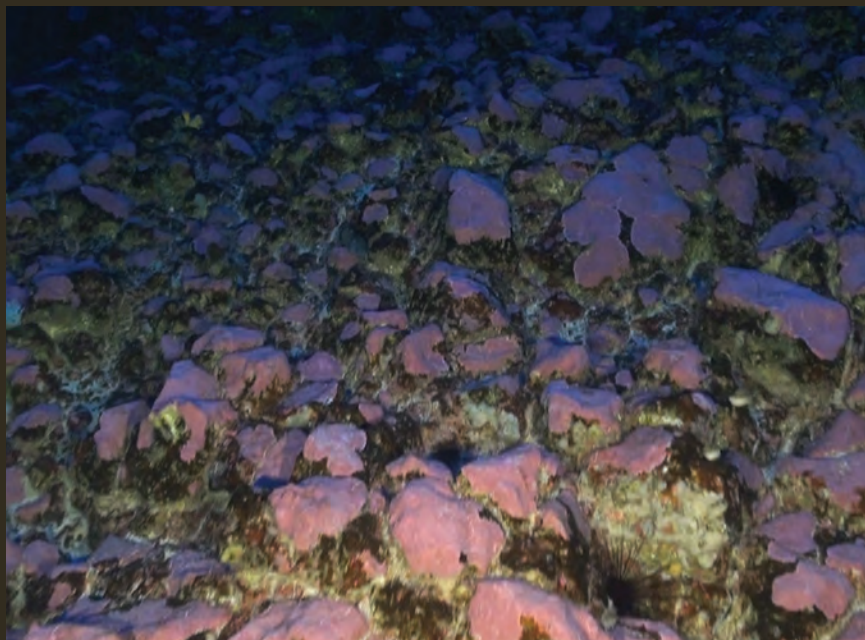
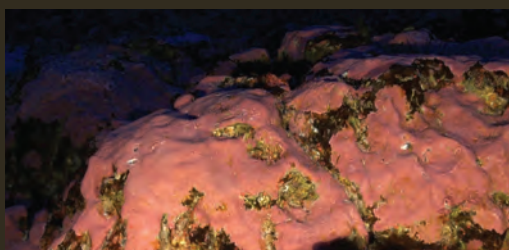
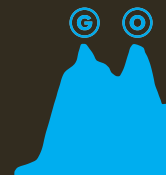
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022

Lithophyllum incrustans

Philippi, 1837

Class: Florideophyceae
Order: Corallinales
Family: Corallinaceae



RHODOPHYTA

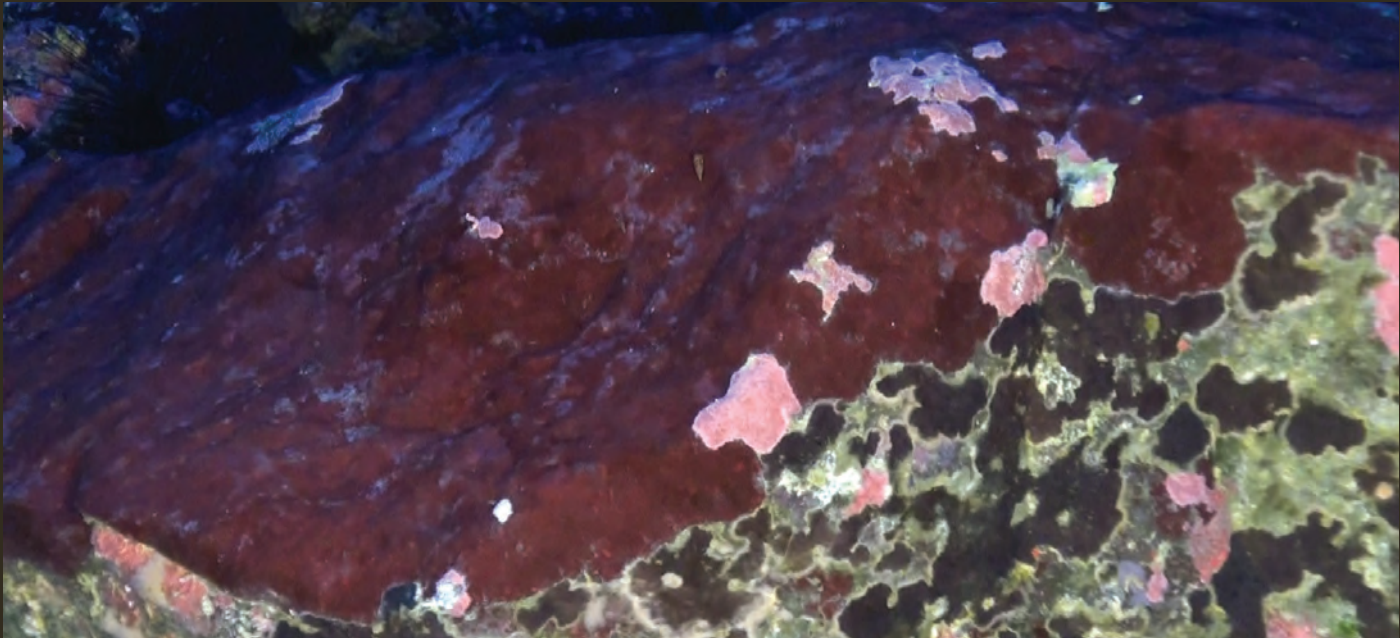
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023

Cruoria sp.

Fries, 1835

Class: Florideophyceae
Order: Gigartinales
Family: Cruoriaceae



RHODOPHYTA

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024

Callophyllis laciniata

(Hudson) Kützing, 1843

Class: Florideophyceae
Order: Gigartinales
Family: Kallymeniaceae



RHODOPHYTA

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GORRINGE BANK

025

Kallymenia cf. reniformis

(Turner) J. Agardh, 1842

Class: Florideophyceae
Order: Gigartinales
Family: Kallymeniaceae



RHODOPHYTA

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026

Palmaria palmata

(Linnaeus) Weber & Mohr, 1805

Class: Florideophyceae
Order: Palmariales
Family: Palmariaceae



RHODOPHYTA

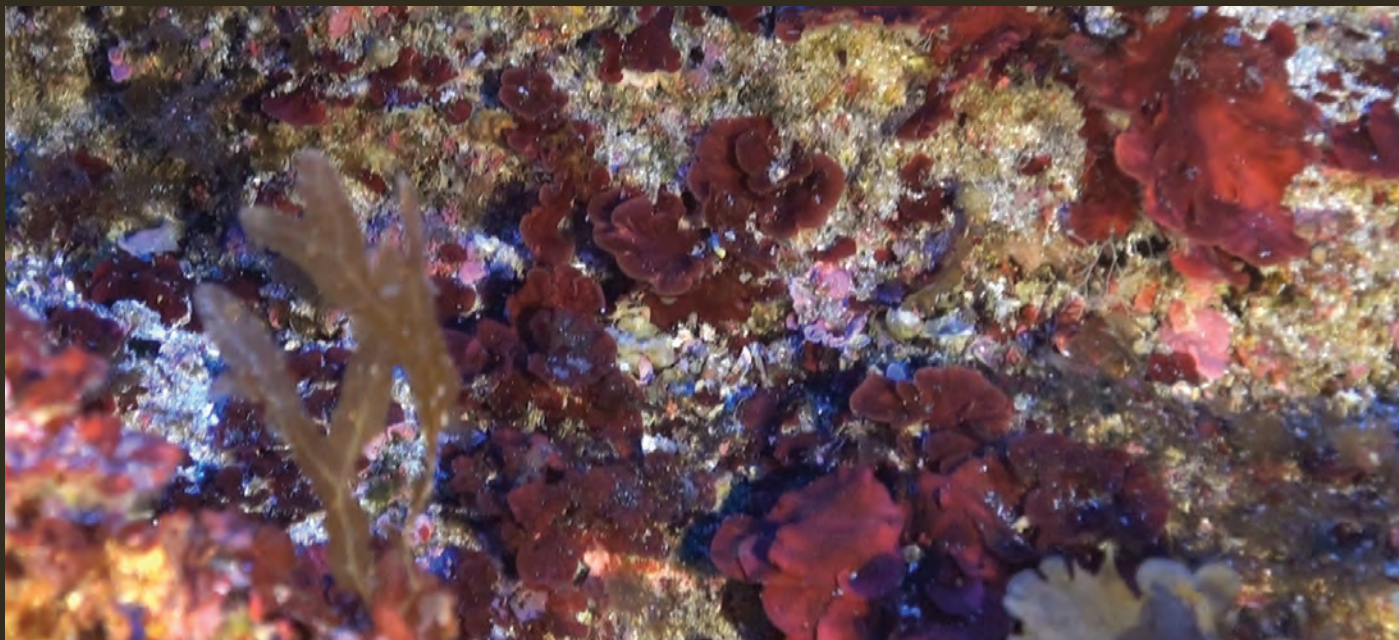
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027

Peyssonnelia rubra

(Greville) J.Agardh, 1851

Class: Florideophyceae
Order: Peyssonneliales
Family: Peyssonneliaceae



RHODOPHYTA

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028

Plocamium cartilagineum

(Linnaeus) P.S.Dixon, 1967

Class: Florideophyceae
Order: Plocamiales
Family: Plocamiaceae



RHODOPHYTA

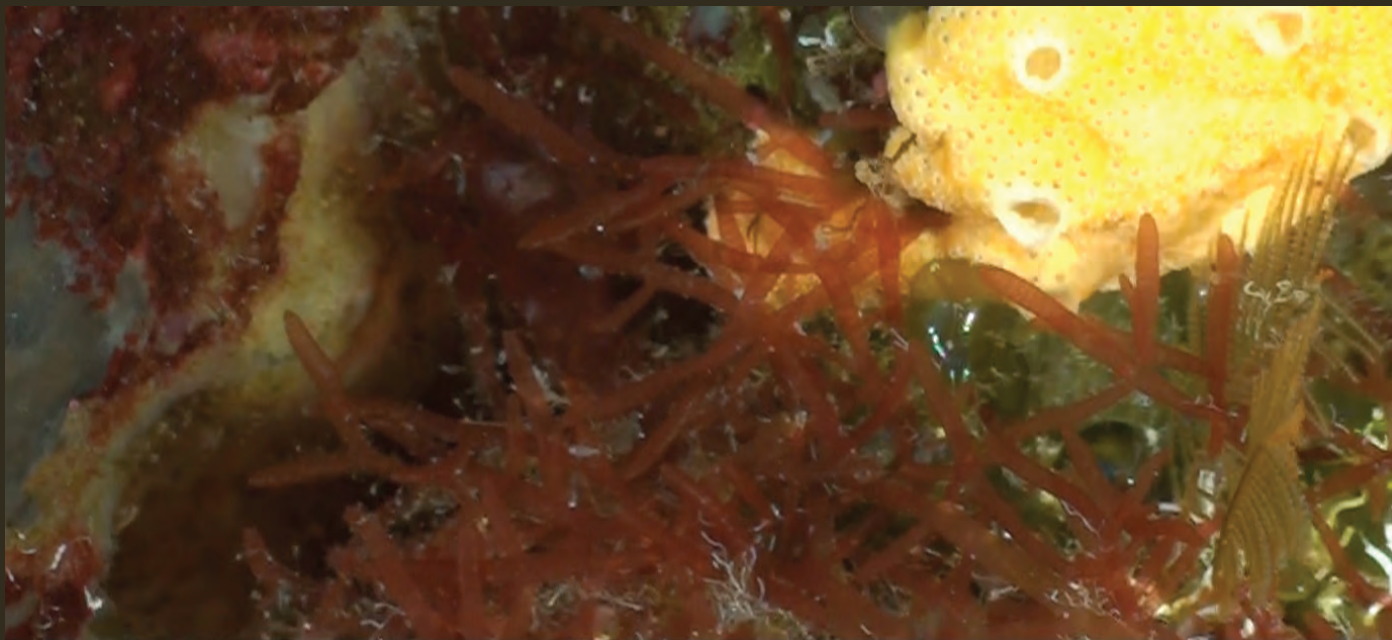
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029

Champia parvula

(C.Agardh) Harvey, 1853

Class: Florideophyceae
Order: Rhodymeniales
Family: Champiaceae



RHODOPHYTA

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030

Rhodymenia pseudopalmata

(J.V.Lamouroux) P.C.Silva, 1952

Class: Florideophyceae
Order: Rhodymeniales
Family: Rhodymeniaceae



RHODOPHYTA

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031



FORAMINIFERA

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032

Miniacina miniacea

(Pallas, 1766)

Class: Globobulimina
Order: Rotulida
Family: Homotrematidae



FORAMINIFERA

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OF THE SPECIES OF THE
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033



PORIFERA

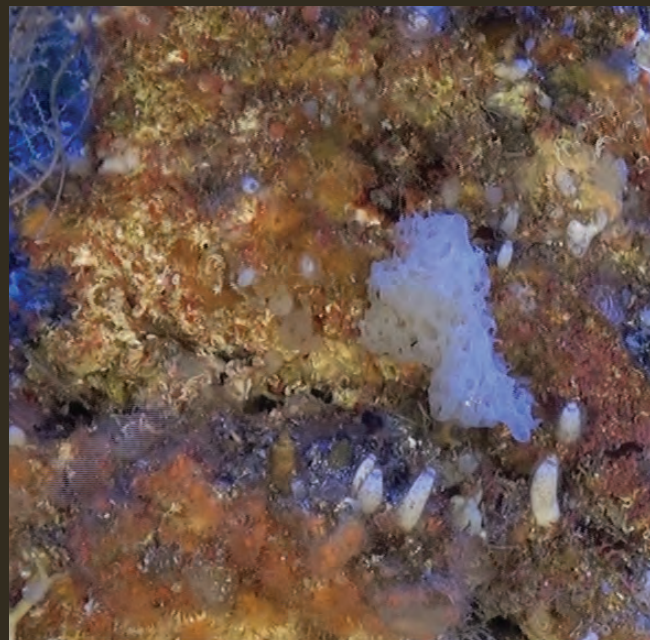
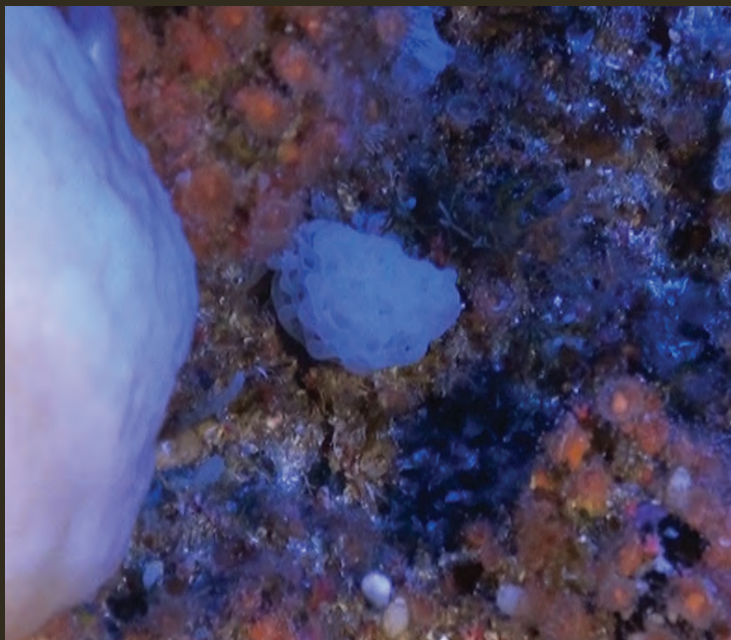
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034

Clathrina clathrus

(Schmidt, 1864)

Class: Calcarea
Order: Clathrinida
Family: Clathrinidae



PORIFERA

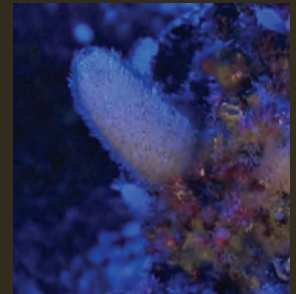
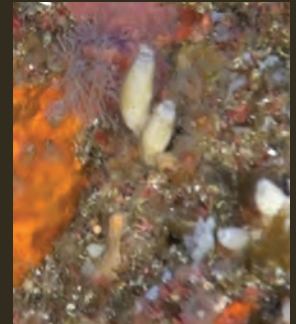
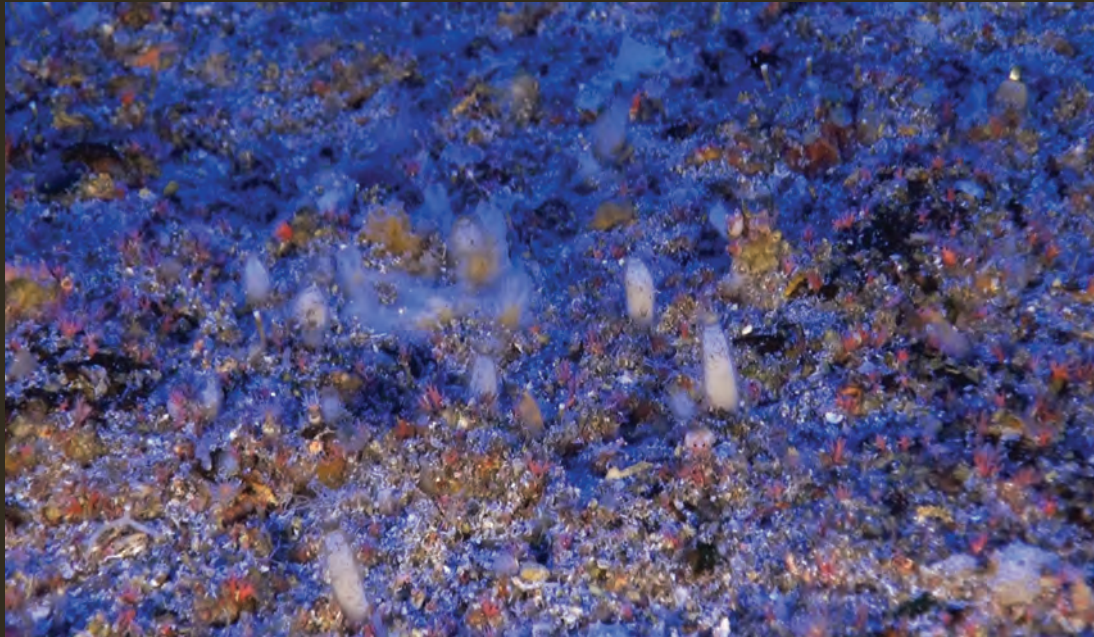
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035

Sycon sp.

Risso, 1827

Class: Calcarea
Order: Leucosolenida
Family: Syctidae



PORIFERA

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036

Demospongiae

Sollas, 1885

Class: Demospongiae
Order:
Family:



PORIFERA

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037

Phakellia ventilabrum

(Linnaeus, 1767)

Class: Demospongiae
Order: Axinellida
Family: Axinellidae



PORIFERA

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038

Thymosia guernei

Topsent, 1895

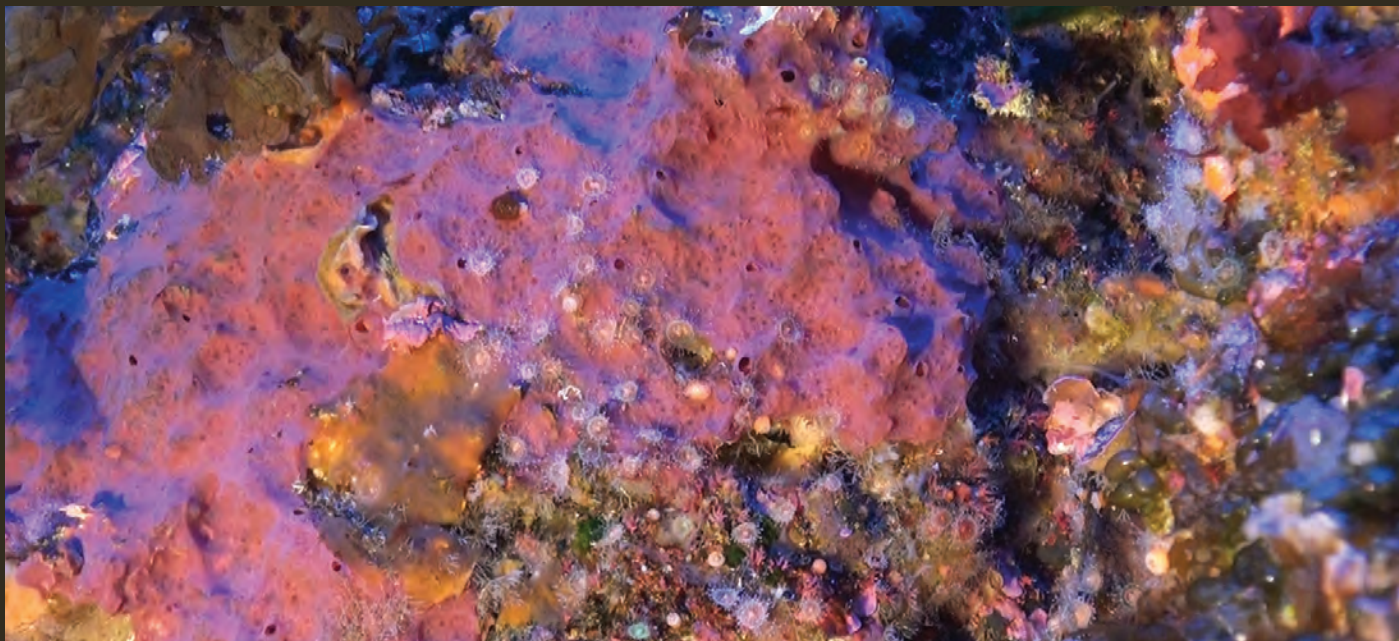
Class: Demospongiae
Order: Chondrilla
Family: Chondrillidae



Aplysilla rosea

(Barrois, 1876)

Class: Demospongiae
Order: Dendroceratida
Family: Darwinellidae



PORIFERA

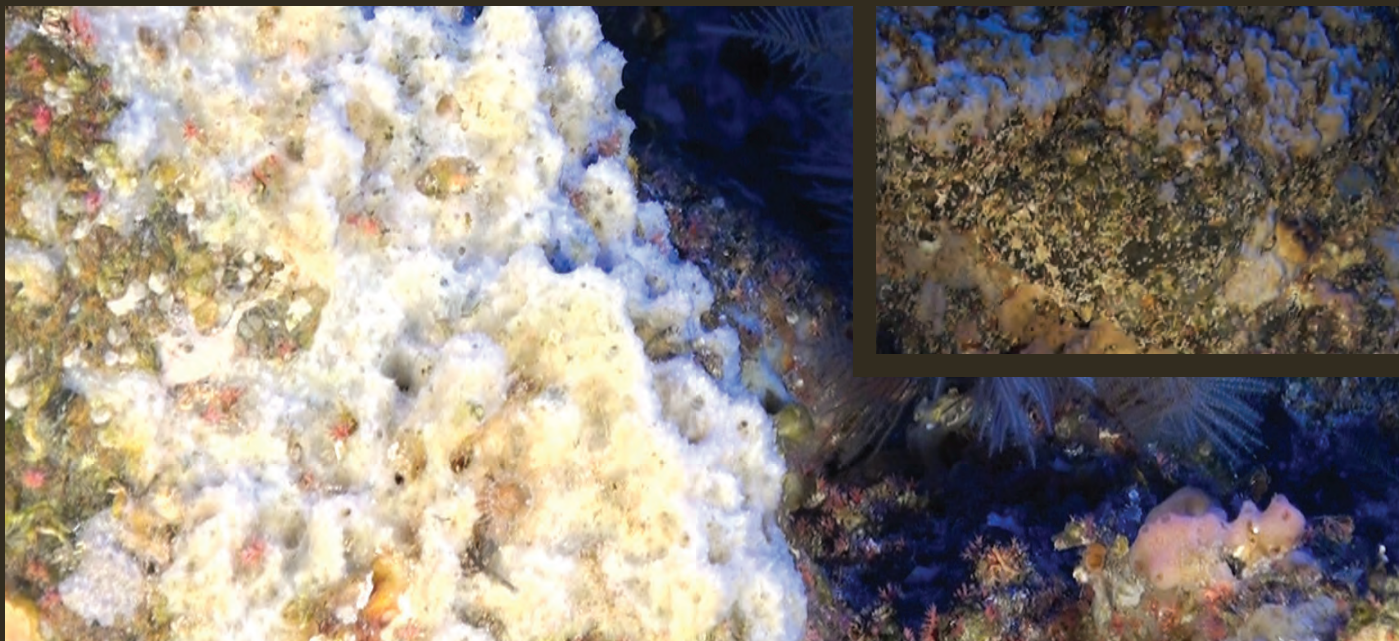
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040

Dysidea fragilis

(Montagu, 1814)

Class: Demospongiae
Order: Dicyoceratida
Family: Dysideidae



PORIFERA

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041

Pleraplysilla spinifera

(Schulze, 1879)

Class: Demospongiae
Order: Dicyoceratida
Family: Dysideidae



PORIFERA

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042

Haplosclerida

Topsent, 1928

Class: Demospongiae
Order: Haplosclerida
Family:



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043

Cladocroce fibrosa

(Topsent, 1890)

Class: Demospongiae
Order: Haplosclerida
Family: Chalinidae



PORIFERA

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044

Haliclona sp.

Grant, 1836

Class: Demospongiae
Order: Haplosclerida
Family: Chalinidae



PORIFERA

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045

Haliclona sp.

Grant, 1836

Class: Demospongiae
Order: Haplosclerida
Family: Chalinidae



PORIFERA

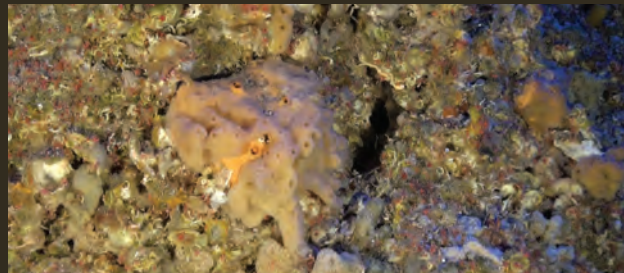
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046

Haliclona sp.

Grant, 1836

Class: Demospongiae
Order: Haplosclerida
Family: Chalinidae



PORIFERA

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047

Haliclona implexa

(Schmidt, 1868)

Class: Demospongiae
Order: Haplosclerida
Family: Chalinidae



PORIFERA

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048

Haliclona magna

(Vacelet, 1969)

Class: Demospongiae
Order: Haplosclerida
Family: Chalinidae



PORIFERA

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049

Petrosia sp.

Vosmaer, 1885

Class: Demospongiae
Order: Haplosclerida
Family: Petrosiidae



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050

Oceanapia sp.

Norman, 1869

Class: Demospongiae
Order: Haplosclerida
Family: Phloeodictyidae



PORIFERA

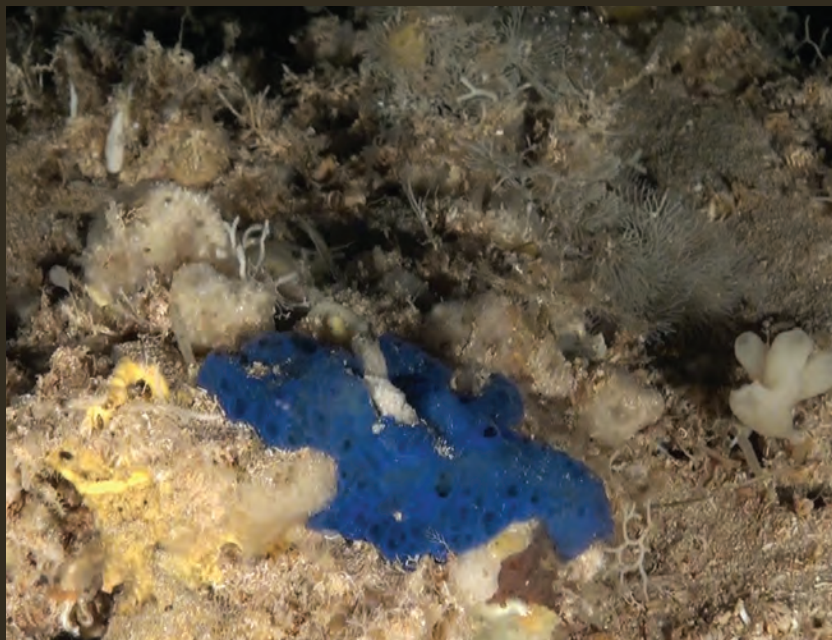
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051

Hymedesmia curvichela

Lundbeck, 1910

Class: Demospongiae
Order: Poecilosclerida
Family: Hymedesmiidae



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052

Latrunculia citharistae

Vacelet, 1969

Class: Demospongiae
Order: Poecilosclerida
Family: Latrunculidae



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053

Antho dichotoma

(Linnaeus, 1767)

Class: Demospongiae
Order: Poecilosclerida
Family: Microcionidae



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GORRINGE BANK

054

Podospongia lovenii

Barboza du Bocage, 1869

Class: Demospongiae
Order: Poecilosclerida
Family: Podospongiidae



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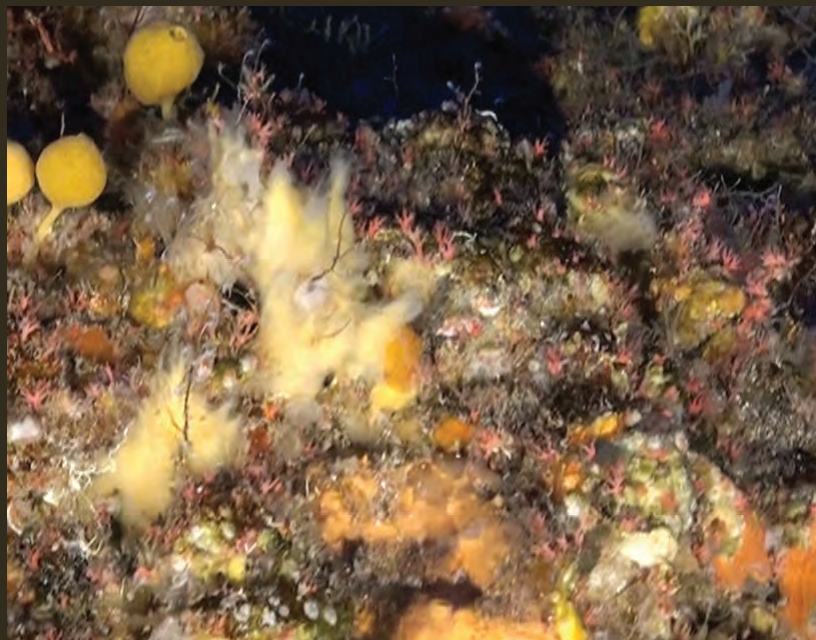
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055

Axinyssa digitata

(Cabioch, 1968)

Class: Demospongiae
Order: Suberitida
Family: Halichondriidae



PORIFERA

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056

Spongosorites sp.

Topsent, 1896

Class: Demospongiae
Order: Suberitida
Family: Halichondriidae



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057

Topsentia sp.

Berg, 1899

Class: Demospongiae
Order: Suberitida
Family: Halichondriidae



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058

Topsentia pachastrelloides

(Topsent, 1892)

Class: Demospongiae
Order: Suberitida
Family: Halichondriidae



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059

Stylocordyla sp.

Thomson, 1873

Class: Demospongiae
Order: Suberitida
Family: Stylocordylidae



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060

Stylocordyla pellita

(Topsent, 1904)

Class: Demospongiae
Order: Suberitida
Family: Stylocordylidae



PORIFERA

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061

Aaptos aaptos (deep water white morph)

(Schmidt, 1864)

Class: Demospongiae
Order: Suberitida
Family: Suberitidae



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GORRINGE BANK

062

Aaptos aaptos (shallow water yellow morph)

(Schmidt, 1864)

Class: Demospongiae
Order: Suberitida
Family: Suberitidae



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063

Leiodermatium pfeifferae

(Carter, 1873)

Class: Demospongiae
Order: Tetractinellida
Family: Azoricidae



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064

Neophrissospongia nolitangere

(Schmidt, 1870)

Class: Demospongiae
Order: Tetractinellida
Family: Corallistidae



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065

Erylus deficiens

Topsent, 1927

Class: Demospongiae
Order: Tetractinellida
Family: Geodiidae



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066

Geodia sp.

Lamarck, 1815

Class: Demospongiae
Order: Tetractinellida
family: Geodiidae



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067

Geodia cf. megastrella

Carter, 1876

Class: Demospongiae
Order: Tetractinellida
Family: Geodiidae



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068

Macandrewia azorica

Gray, 1859

Class: Demospongiae
Order: Tetractinellida
Family: Macandrewiidae



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069

Characella pachastrelloides

(Carter, 1876)

Class: Demospongiae
Order: Tetractinellida
Family: Pachastrellidae



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070

Pachastrella monilifera

Schmidt, 1868

Class: Demospongiae
Order: Tetractinellida
Family: Pachastrellidae



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071

Thenea schmidti

Sollas, 1886

Class: Demospongiae
Order: Tetractinellida
Family: Theneidae



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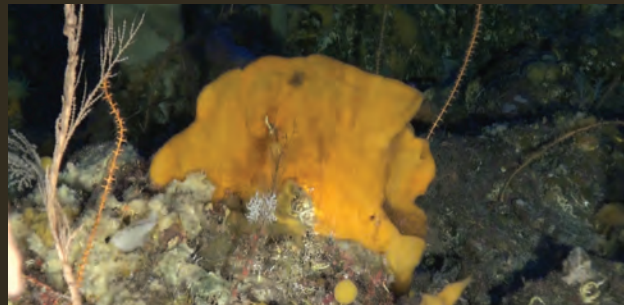
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072

Poecillastra compressa (orange morph)

(Bowerbank, 1866)

Class: Demospongiae
Order: Tetractinellida
Family: Vulcanellidae



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073

Poecillastra compressa (white morph)

(Bowerbank, 1866)

Class: Demospongiae
Order: Tetractinellida
Family: Vulcanellidae



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074

Asconema setubalense

Kent, 1870

Class: Hexactinellida
Order: Lyssacinosida
Family: Rossellidae



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GORRINGE BANK

075

Sympagella delauzei

Boury-Esnault, Vacelet, Reiswig & Chevaldonné, 2014

Class: Hexactinellida
Order: Lyssacinosa
Family: Rossellidae



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076

Farrea sp.

Bowerbank, 1862

Class: Hexactinellida
Order: Hexactinosida
Family: Farreidae



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077

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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078

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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079

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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GORRINGE BANK

080

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



PORIFERA

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



PORIFERA

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GORRINGE BANK

082

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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083

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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GORRINGE BANK

084

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



PORIFERA

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GORRINGE BANK

085

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



PORIFERA

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GORRINGE BANK

086

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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087

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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088

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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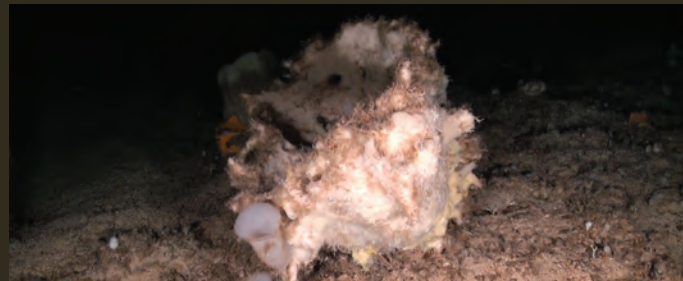
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089

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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GORRINGE BANK

090

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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GORRINGTON BANK

091

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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092

Porifera (unassigned)

Grant, 1836

Class:
Order:
family:



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GORRINGE BANK

093

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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094

Porifera (unassigned)

Grant, 1836

Class:
Order:
Family:



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GORRINGE BANK

096

Bolinopsis infundibulum

(O.F. Müller, 1776)

Class: Tentaculata
Order: Lobata
Family: Bolinopsidae



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097



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098

Adamsia palliata

(Müller, 1776)

Class: Anthozoa
Order: Actinaria
Family: Hormathiidae



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GORRINGE BANK

099

Rolandia cf. coralloides

de Lacaze Duthiers, 1900

Class: Anthozoa
Order: Alcyonacea
Family: Clavulariidae



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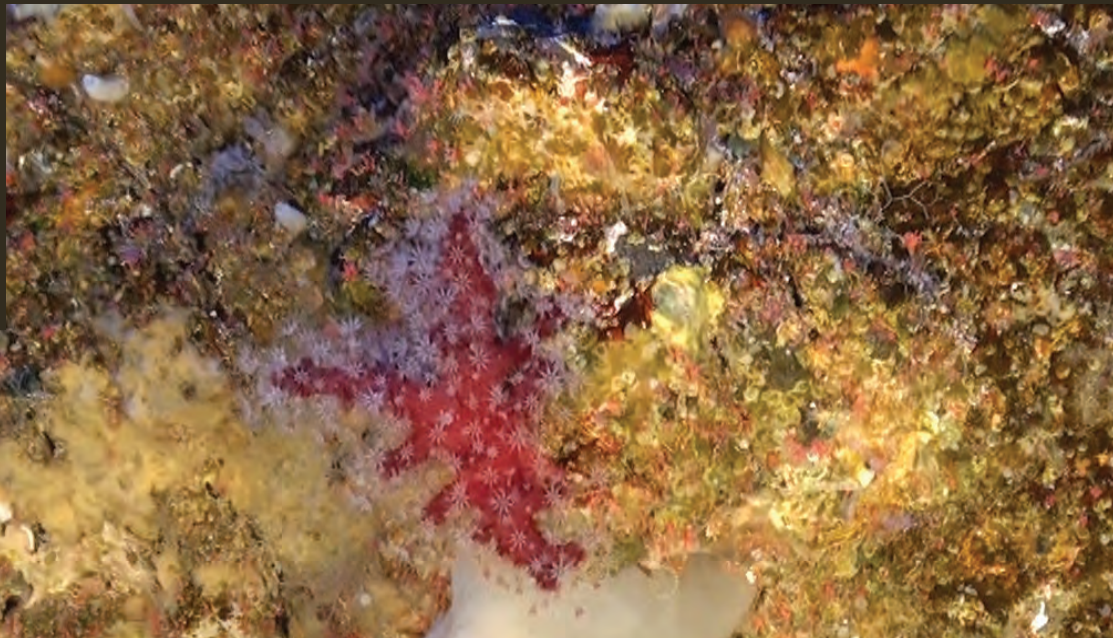
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100

Alcyonium acaule

Pallas, 1766

Class: Anthozoa
Order: Alcyonacea
Family: Alcyoniidae



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101

Ellisella paraplexauroides

Stiasny, 1936

Class: Anthozoa
Order: Alcyonacea
Family: Ellisellidae



Nicella granifera

(Kölliker, 1865)

Class: Anthozoa
Order: Alcyonacea
Family: Ellisellidae



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103

Viminella flagellum

(Johnson, 1863)

Class: Anthozoa
Order: Alcyonacea
Family: Ellisellidae



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104

Eunicella sp.

Verrill, 1869

Class: Anthozoa
Order: Alcyonacea
Family: Gorgoniidae



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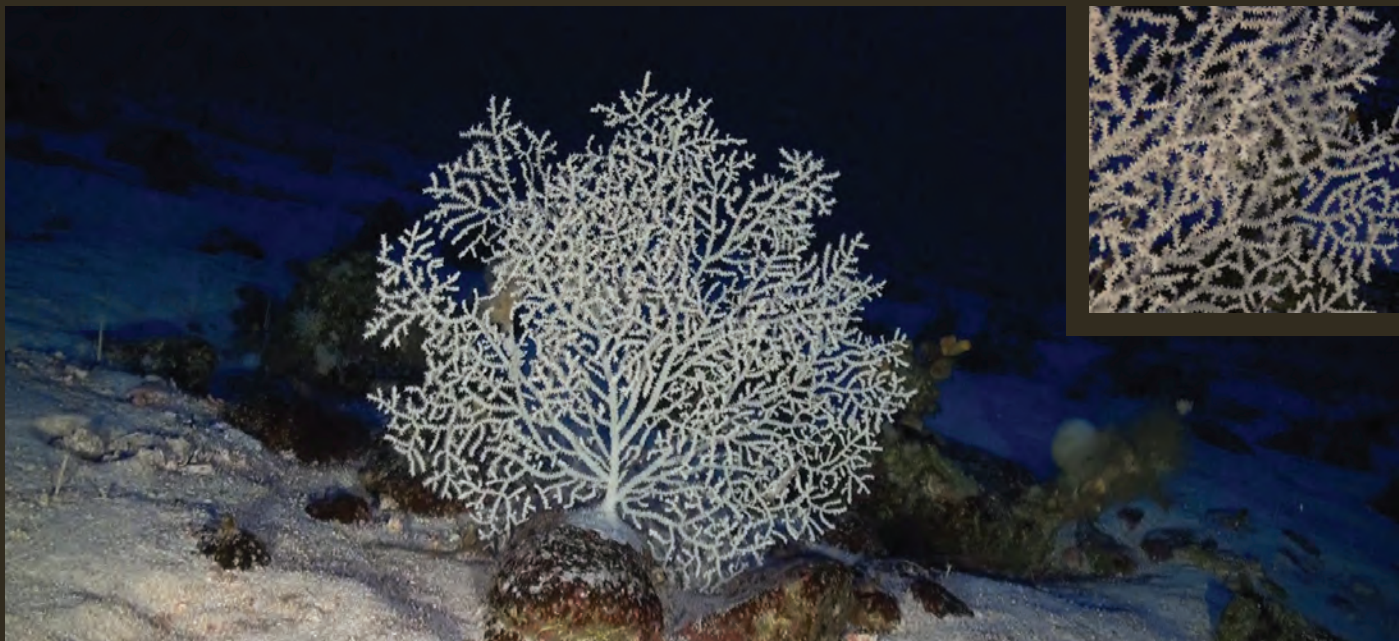
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105

Eunicella verrucosa

(Pallas, 1766)

Class: Anthozoa
Order: Alcyonacea
Family: Gorgoniidae



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106

Nidaliidae

Gray, 1869

Class: Anthozoa
Order: Alcyonacea
Family: Nidaliidae



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107

Nidaliidae

Gray, 1869

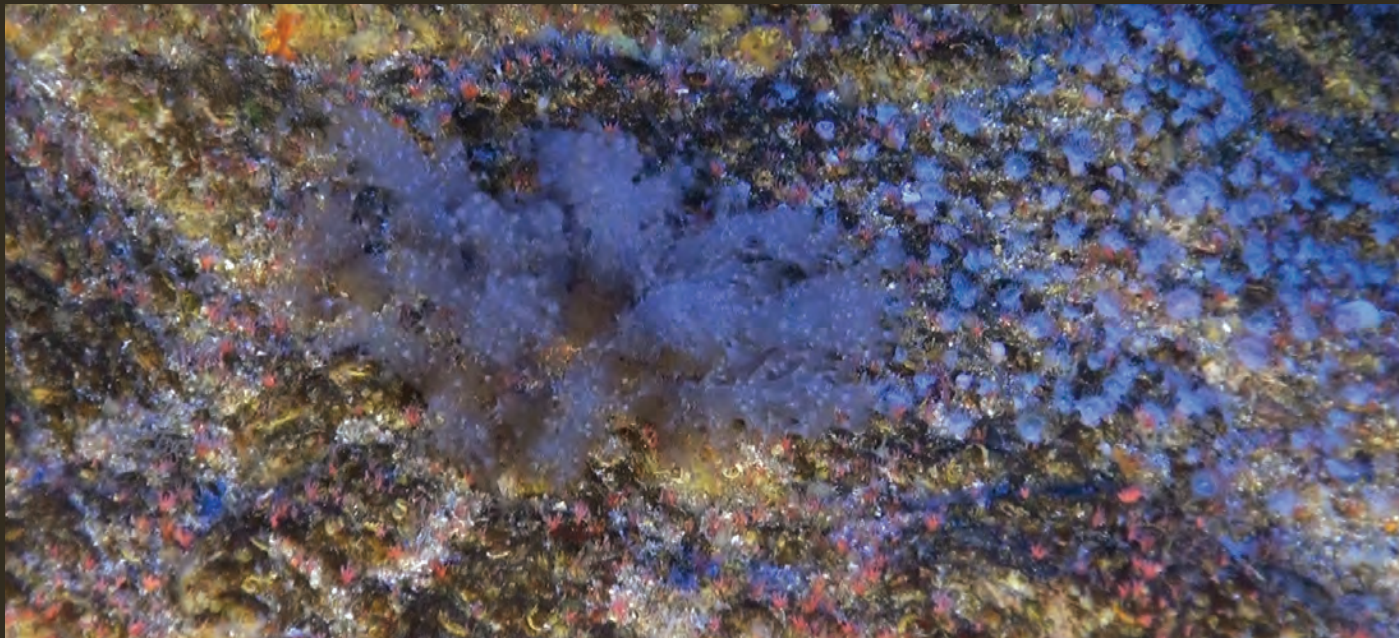
Class: Anthozoa
Order: Alcyonacea
Family: Nidaliidae



Paralcyonium cf. spinulosum

Delle Chiaje, 1822

Class: Anthozoa
Order: Alcyonacea
Family: Paralcyoniidae



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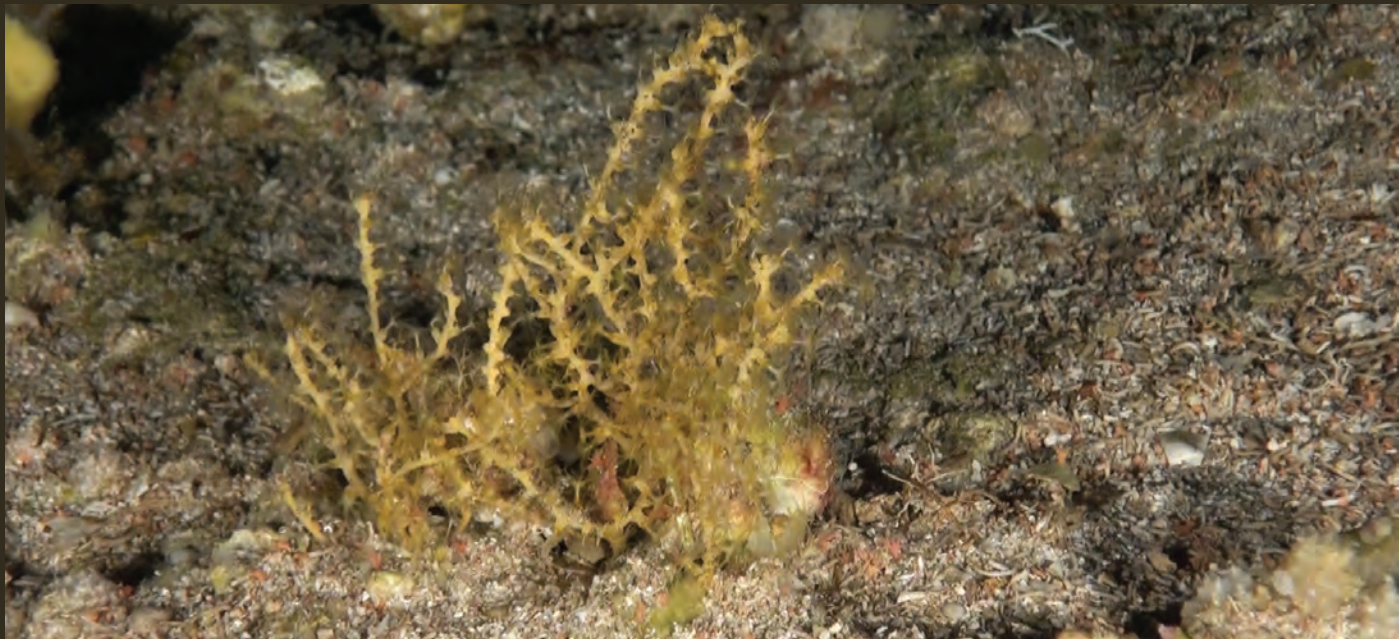
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109

Bebryce cf. mollis

Philippi, 1842

Class: Anthozoa
Order: Alcyonacea
Family: Plexauridae



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110

Paramuricea clavata

(Risso, 1826)

Class: Anthozoa
Order: Alcyonacea
Family: Plexauridae



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Paramuricea sp.

Koelliker, 1865

Class: Anthozoa
Order: Alcyonacea
Family: Plexauridae



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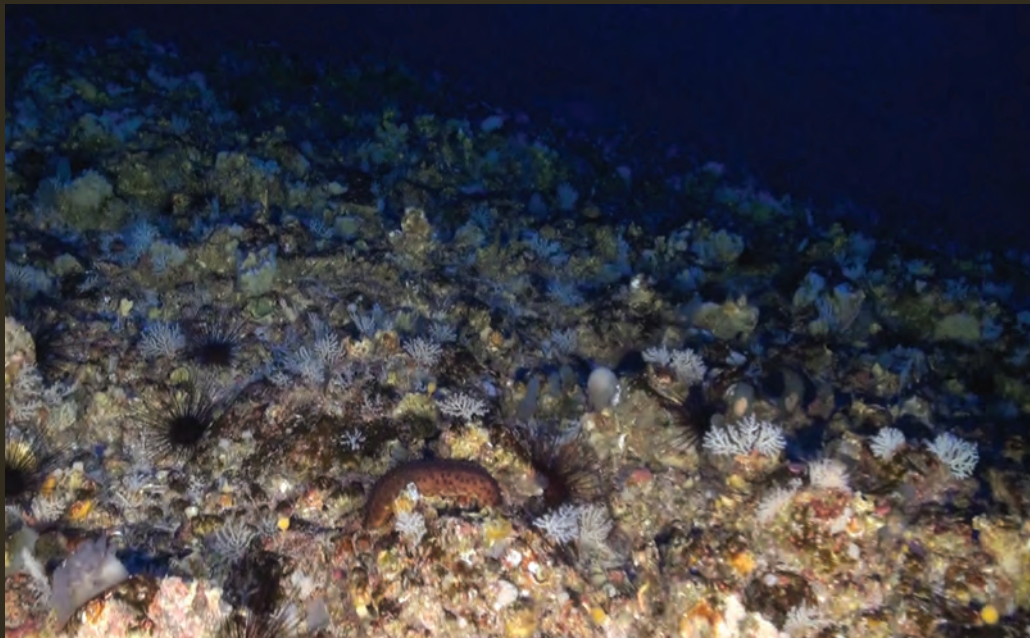
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112

Villogorgia bebrycoides

(Koch, 1887)

Class: Anthozoa
Order: Alcyonacea
Family: Plexauridae



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113

Callogorgia verticillata

(Pallas, 1766)

Class: Anthozoa
Order: Alcyonacea
Family: Primnoidae



Candidella cf. *imbricata*

(Johnson, 1862)

Class: Anthozoa
Order: Alcyonacea
Family: Primnoidae



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Narella sp.

Gray, 1870

Class: Anthozoa
Order: Alcyonacea
Family: Primnoidae



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116

Paracalyptrophora josephinae

(Lindström, 1877)

Class: Anthozoa
Order: Alcyonacea
Family: Primnoidae



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117

Primnoidae

Milne Edwards, 1857

Class: Anthozoa
Order: Alcyonacea
Family: Primnoidae



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118

Antipathes furcata

Gray, 1857

Class: Anthozoa
Order: Antipatharia
Family: Antipathidae



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GORRINGE BANK

119

Stichopathes cf. gravieri

Molodtsova, 2006

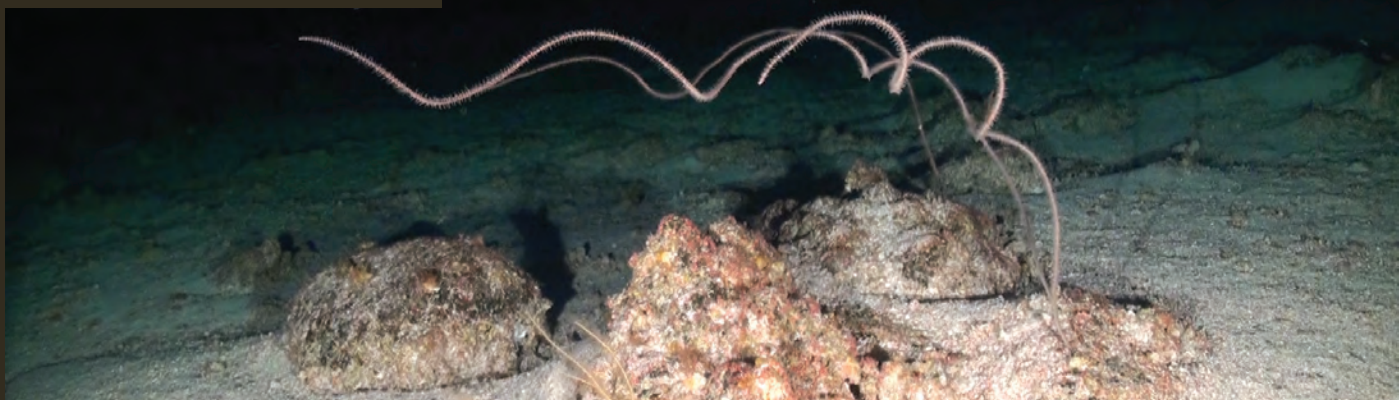
Class: Anthozoa
Order: Antipatharia
Family: Antipathidae



Stichopathes sp.

Brook, 1889

Class: Anthozoa
Order: Antipatharia
Family: Antipathidae



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121

Aphanipathes sp.

Brook, 1889

Class: Anthozoa
Order: Antipatharia
Family: Aphanipathidae



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122

Aphanipathes sp.

Brook, 1889

Class: Anthozoa
Order: Antipatharia
Family: Aphanipathidae



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123

Leiopathes sp.

Haime, 1849

Class: Anthozoa
Order: Antipatharia
Family: Leiopathidae



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124

Antipathella subpinnata

(Ellis & Solander, 1786)

Class: Anthozoa
Order: Antipatharia
Family: Myriopathidae



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125

Antipathella cf. wollastoni

(Gray, 1857)

Class: Anthozoa
Order: Antipatharia
Family: Myriopathidae



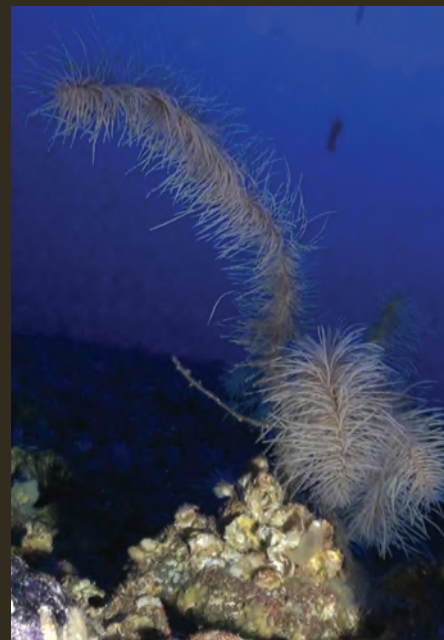
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126

Tanacetipathes sp.

Class: Anthozoa
Order: Antipatharia
Family: Myriopathhidae



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Ceriantharia

Perrier, 1893

Class: Anthozoa
Order: Ceriantharia
Family:



Corynactis viridis

Allman, 1846

Class: Anthozoa
Order: Corallimorpharia
Family: Corallimorphidae



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129

Funiculina cf. *quadrangularis*

(Pallas, 1766)

Class: Anthozoa
Order: Pennatulacea
Family: Funiculinidae



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130

Pennatulula sp.

Linnaeus, 1758

Class: Anthozoa
Order: Pennatulacea
Family: Pennatulidae



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Pteroeides cf. spinosum

(Ellis, 1764)

Class: Anthozoa
Order: Pennatulacea
Family: Pennatulidae



Dendrophyllia cornigera

(Lamarck, 1816)

Class: Anthozoa
Order: Scleractinia
Family: Dendrophylliidae



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133

Flabellum chunii

Marenzeller, 1904

Class: Anthozoa
Order: Scleractinia
Family: Flabellidae



Caryophylliidae

Dana, 1846

Class: Anthozoa
Order: Scleractinia
Family: Caryophylliidae



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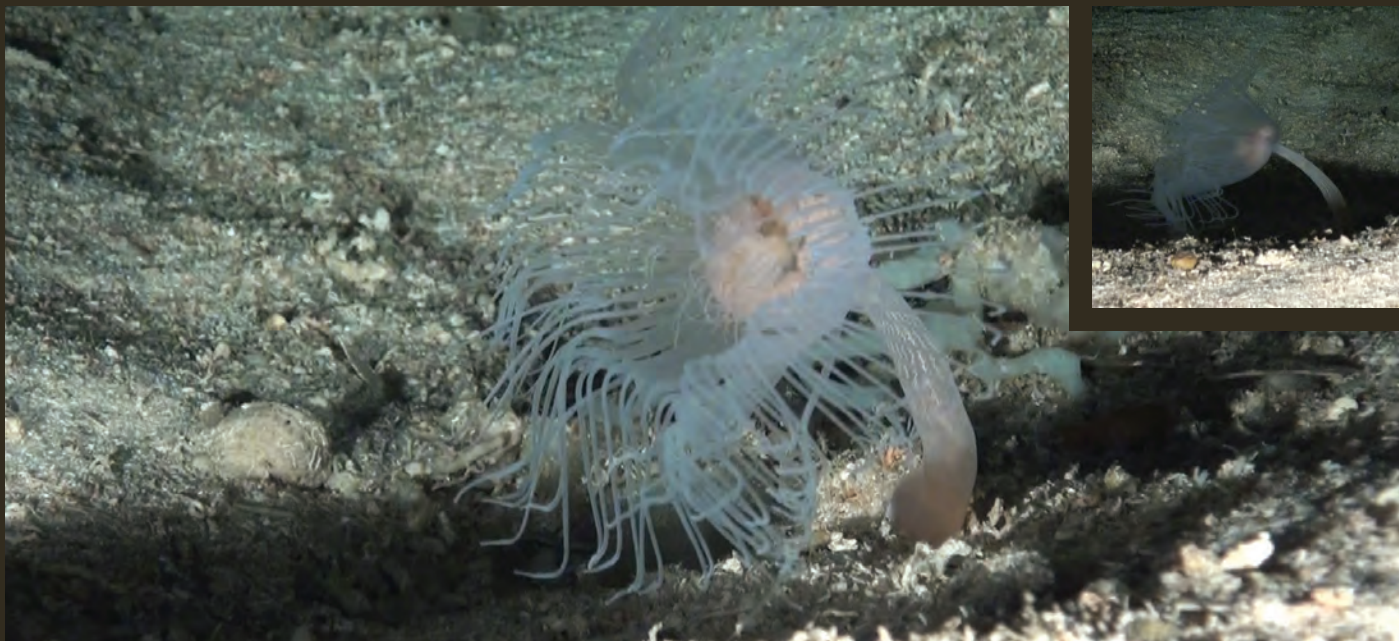
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135

Corymorphidae

Allman, 1872

Class: Hydrozoa
Order: Anthoathecata
Family: Corymorphidae



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136

Stylasteridae

Gray, 1847

Class: Hydrozoa
Order: Anthoathecata
Family: Stylasteridae



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137

Lepidopora sp.

Portalès, 1871

Class: Hydrozoa
Order: Anthoathecata
Family: Stylasteridae



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138

cf. *Ralpharia* sp.

Watson, 1980

Class: Hydrozoa
Order: Anthoathecata
Family: Tubulariidae



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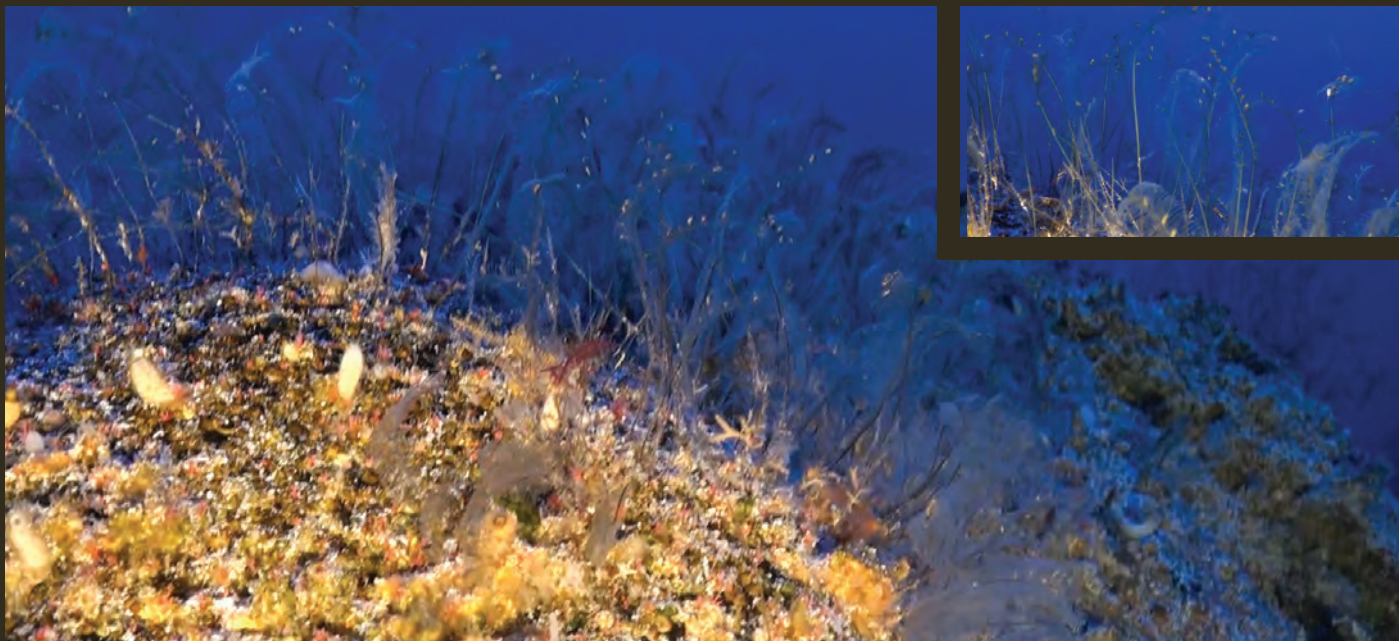
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139

Aglaophenia sp.

Lamouroux, 1812

Class: Hydrozoa
Order: Leptothecata
Family: Aglaopheniidae



Lytocarpia myriophyllum

(Linnaeus, 1758)

Class: Hydrozoa
Order: Leptothecata
Family: Aglaopheniidae



Aglaopheniidae

Marktanner-Turneretscher, 1890

Class: Hydrozoa
Order: Leptothecata
Family: Aglaopheniidae



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142

Clytia sp.

(Linnaeus, 1767)

Class: Hydrozoa
Order: Leptothecata
Family: Campanulariidae



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Campanulariidae

Johnston, 1836

Class: Hydrozoa
Order: Leptothecata
Family: Campanulariidae



Campanulariidae

Johnston, 1836

Class: Hydrozoa
Order: Leptothecata
Family: Campanulariidae



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145

Campanulariidae

Johnston, 1836

Class: Hydrozoa
Order: Leptothecata
Family: Campanulariidae



Nemertesia antennina

(Linnaeus, 1758)

Class: Hydrozoa
Order: Leptothecata
Family: Plumulariidae



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Nemertesia cf. ramosa

(Lamarck, 1816)

Class: Hydrozoa
Order: Leptothecata
Family: Plumulariidae



Pseudoplumaria sp.

Ramil & Vervoort, 1992

Class: Hydrozoa
Order: Leptothecata
Family: Plumulariidae



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149

Plumulariidae

Agassiz, 1862

Class: Hydrozoa
Order: Leptothecata
Family: Plumulariidae



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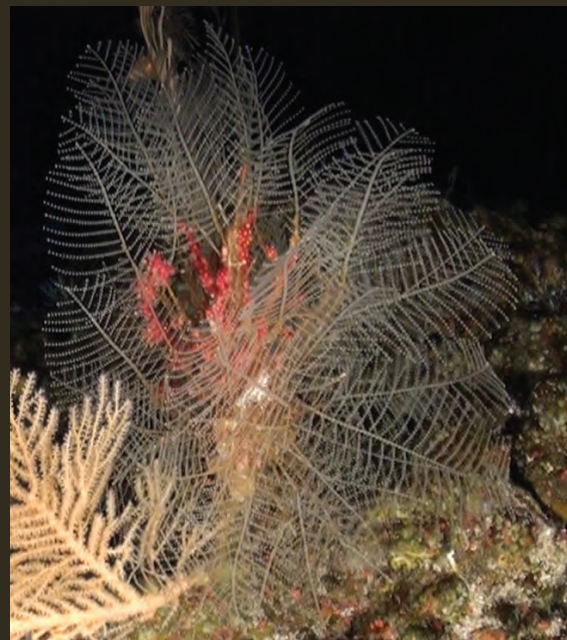
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150

Diphasia sp.

Agassiz, 1862

Class: Hydrozoa
Order: Leptothecata
Family: Seritulariidae



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151

Sertularella sp.

Gray, 1848

Class: Hydrozoa
Order: Leptothecata
Family: Sertulariidae



Sertularella sp.

Gray, 1848

Class: Hydrozoa
Order: Leptothecata
Family: Sertulariidae



CNIDARIA

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153

Haliscera conica

Vanhöffen, 1902

Class: Hydrozoa
Order: Trachymedusae
Family: Halicreatidae



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154

Halopterididae

Millard, 1962

Class: Hydrozoa
Order: Leptothecata
Family: Halopterididae



CNIDARIA

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155

Cnidaria (unassigned)

Verrill, 1865

Class:
Order:
Family:



CNIDARIA

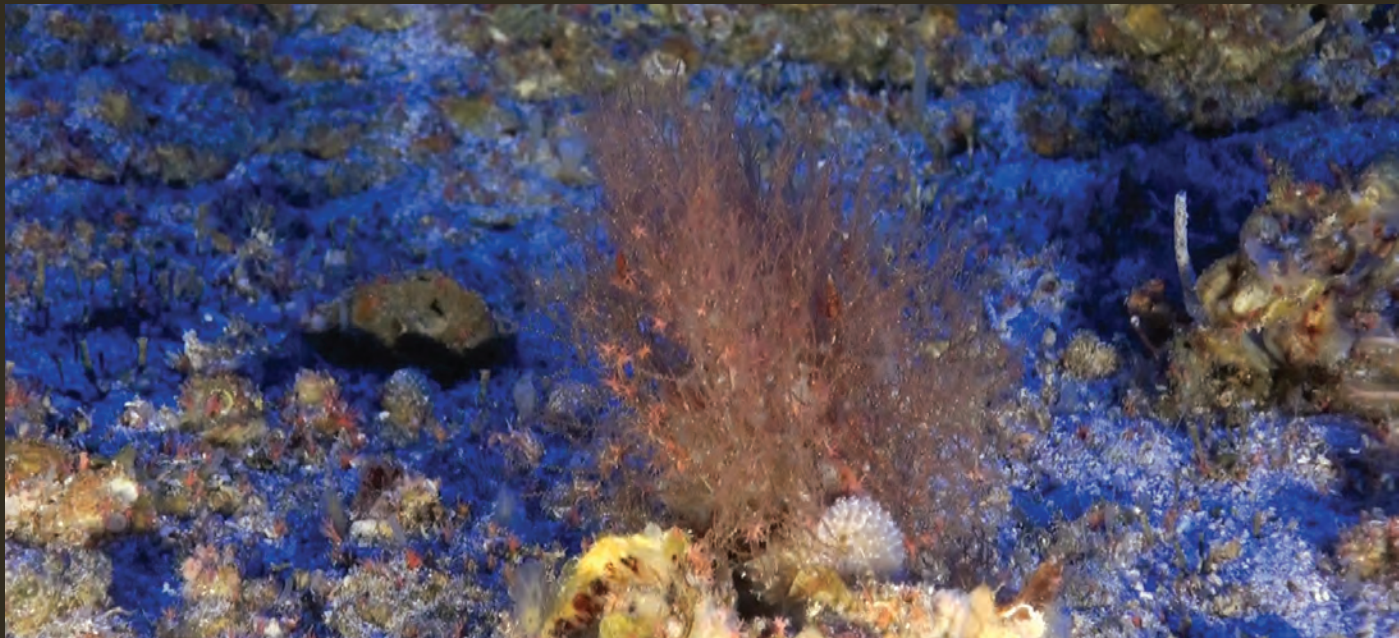
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156

Cnidaria (unassigned)

Verrill, 1865

Class:
Order:
Family:



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BRYOZOA

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158

Schizomavella spp.

Canu & Bassler, 1917

Class: Gymnolaemata
Order: Cheilostomatida
Family: Bitectiporidae



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159

Candidae

d'Orbigny, 1851

Class: Gymnolaemata
Order: Cheilostomatida
Family: Candidae



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160

Cellaria sp.

Ellis & Solander, 1786

Class: Gymnolaemata
Order: Cheilostomatida
Family: Cellariidae



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Cellaria sp.

Ellis & Solander, 1786

Class: Gymnolaemata
Order: Cheilostomatida
Family: Cellariidae



BRYOZOA

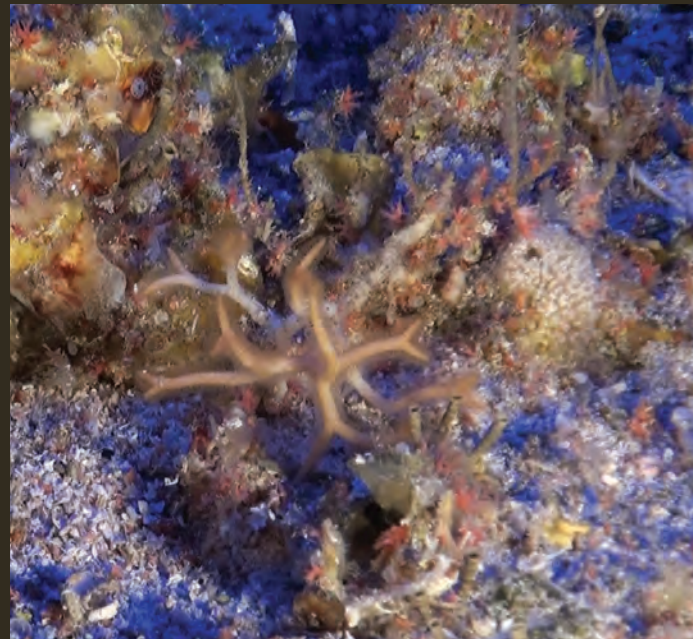
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162

Omalosecosa ramulosa

(Linnaeus, 1767)

Class: Gymnolaemata
Order: Cheilostomatida
Family: Celleporidae



BRYOZOA

Exidmonea atlantica

(Forbes in Johnston, 1847)

Class: Stenolaemata
Order: Cyclostomatida
Family: Tubuliporidae



BRYOZOA

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GORRINGE BANK

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Bryozoa (unassigned)

Class:
Order:
Family:



BRYOZOA



ANNELIDA

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166

Hermodice carunculata

(Pallas, 1766)

Class: Polychaeta
Order: Amphinomida
Family: Amphinomidae



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167

Myxicola aesthetica

(Claparède, 1870)

Class: Polychaeta
Order: Sabellida
Family: Sabellidae



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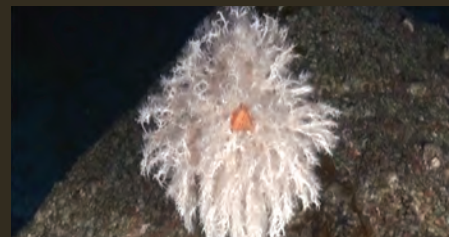
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168

Filograna implexa

Berkeley, 1835

Class: Polychaeta
Order: Sabellida
Family: Serpulidae



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Filograna sp.

Berkeley, 1835

Class: Polychaeta
Order: Sabellida
Family: Serpulidae



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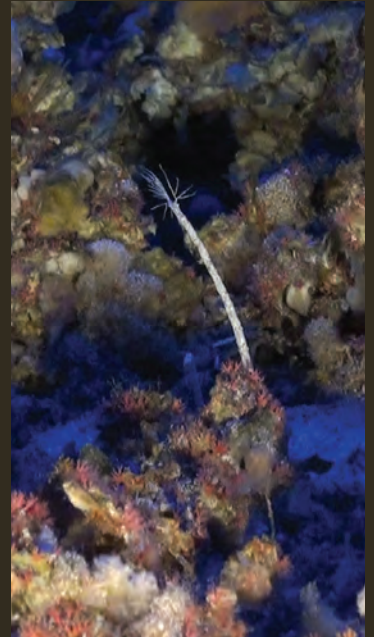
GORRINGE BANK

170

Lanice spp.

Malmgren, 1866

Class: Polychaeta
Order: Terebellida
Family: Terebellidae



ANNELIDA



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172

Cancer bellianus

Johnson, 1861

Class: Malacostraca
Order: Decapoda
Family: Cancridae



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GORRINGE BANK

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Homola barbata

(Fabricius, 1793)

Class: Malacostraca
Order: Decapoda
Family: Homolidae



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GORRINGE BANK

174

Paromola cuvieri

(Risso, 1816)

Class: Malacostraca
Order: Decapoda
Family: Homolidae



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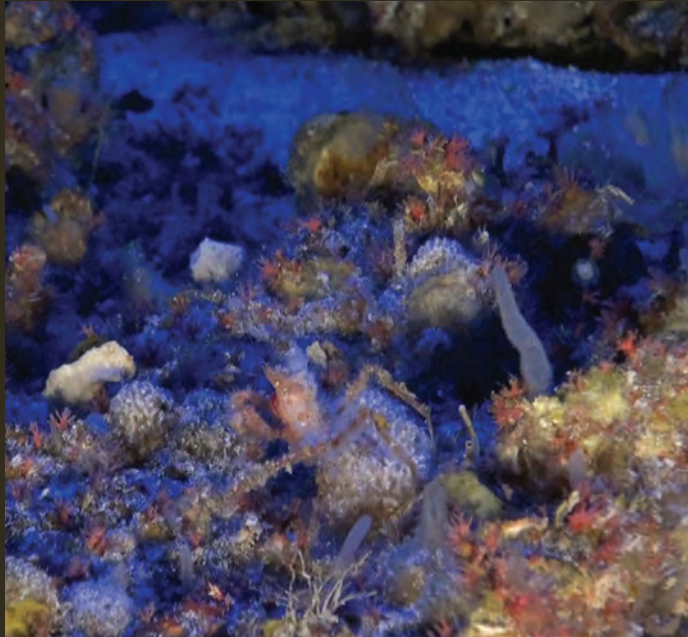
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175

Majidae

Samouelle, 1819

Class: Malacostraca
Order: Decapoda
Family: Majidae



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Anamathia rissoana

(Roux, 1828)

Class: Malacostraca
Order: Decapoda
Family: Epialtidae



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Bathynectes maravigna

(Prestandrea, 1839)

Class: Malacostraca
Order: Decapoda
Family: Polybiidae



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GORRINGE BANK

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Palinurus elephas

(Fabricius, 1787)

Class: Malacostraca
Order: Decapoda
Family: Palinuridae



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Scyllarus arctus

(Linnaeus, 1758)

Class: Malacostraca
Order: Decapoda
Family: Scyllaridae



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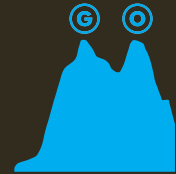
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180

Munida spp.

Leach, 1820

Class: Malacostraca
Order: Decapoda
Family: Munididae

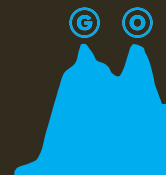


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Pagurus excavatus

(Herbst, 1791)

Class: Malacostraca
Order: Decapoda
Family: Paguridae



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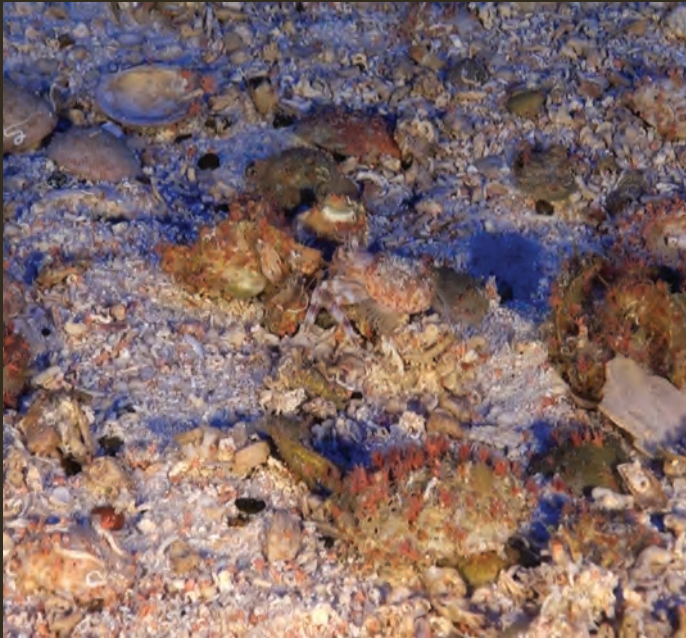
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GORRINGE BANK

182

Pagurus prideaux

Leach, 1815

Class: Malacostraca
Order: Decapoda
Family: Paguridae



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GORRINGE BANK

183

Aristeus antennatus

(Risso, 1826)

Class: Malacostraca
Order: Decapoda
Family: Aristeidae



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GORRINGE BANK

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Plesionika edwardsii

(Brandt, 1851)

Class: Malacostraca
Order: Decapoda
Family: Pandalidae



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GORRINGE BANK

185

Plesionika martia

(A. Milne-Edwards, 1883)

Class: Malacostraca
Order: Decapoda
Family: Pandalidae



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GORRINGE BANK

186

Plesionika williamsi

Forest, 1964

Class: Malacostraca
Order: Decapoda
Family: Pandalidae



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GORRINGE BANK

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Anomura

MacLeay, 1838

Class: Malacostraca
Order: Decapoda
Family:



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GORRINGE BANK

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BRACHIOPODA

Gryphus vitreus

(Born, 1778)

Class: Rhynchonellata
Order: Terebratulida
Family: Terebratulidae





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Neopycnodonte cochlear

(Poli, 1795)

Class: Bivalvia
Order: Ostreoida
Family: Gryphaeidae



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OF THE SPECIES OF THE
GORRINGE BANK

192

Neopycnodonte zibrowii

Gofas, Salas & Taviani, 2009

Class: Bivalvia
Order: Ostreoida
Family: Gryphaeidae



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OF THE SPECIES OF THE
GORRINGE BANK

193

Ptereria hirundo

(Linnaeus, 1758)

Class: Bivalvia
Order: Pterioida
Family: Pteriidae



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GORRINGE BANK

194

Eledone cf. moschata

(Lamarck, 1798)

Class: Cephalopoda
Order: Octopoda
Family: Eledonidae



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GORRINGTON BANK

195

Octopus salutii

Vérany, 1836

Class: Cephalopoda
Order: Octopoda
Family: Octopodidae



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GORRINGE BANK

196

Octopus vulgaris

Cuvier, 1797

Class: Cephalopoda
Order: Octopoda
Family: Octopodidae



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GORRINGE BANK

197

Scaevurgus unicirrhus

(Delle Chiaje [in de Férussac & d'Orbigny], 1841)

Class: Cephalopoda
Order: Octopoda
Family: Octopodidae



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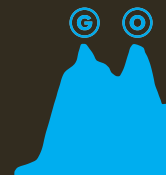
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GORRINGE BANK

198

Sepia orbignyana

Férussac, 1826

Class: Cephalopoda
Order: Sepiida
Family: Sepiidae



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199

Pseudosimnia carnea

(Poiret, 1789)

Class: Gastropoda
Order: Littorinimorpha
Family: Ovulidae



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200

Charonia lampas

(Linnaeus, 1758)

Class: Gastropoda
Order: Littorinimorpha
Family: Ranellidae



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GORRINGE BANK

201

Ranella olearium

(Linnaeus, 1758)

Class: Gastropoda
Order: Littorinimorpha
Family: Ranellidae



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GORRINGE BANK

202

Eudolium bairdii

(Verrill & S. Smith [in Verrill], 1881)

Class: Gastropoda
Order: Littorinimorpha
Family: Tonniidae



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GORRINGE BANK

203

cf. *Colus* sp.

Röding, 1798

Class: Gastropoda
Order: Neogastropoda
Family: Buccinidae



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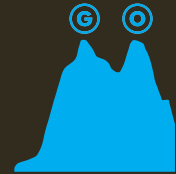
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204

Fusinus sp.

Rafinesque, 1815

Class: Gastropoda
Order: Neogastropoda
Family: Fasciolaridae



MOLLUSCA

Coralliophila sp. 1

H. Adams & A. Adams, 1853

Class: Gastropoda
Order: Neogastropoda
Family: Muricidae



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206

Coralliophila sp. 2

H. Adams & A. Adams, 1853

Class: Gastropoda
Order: Neogastropoda
Family: Muricidae



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207

Felimare picta

(Schultz in Philippi, 1836)

Class: Gastropoda
Order: Nudibranchia
Family: Chromodorididae



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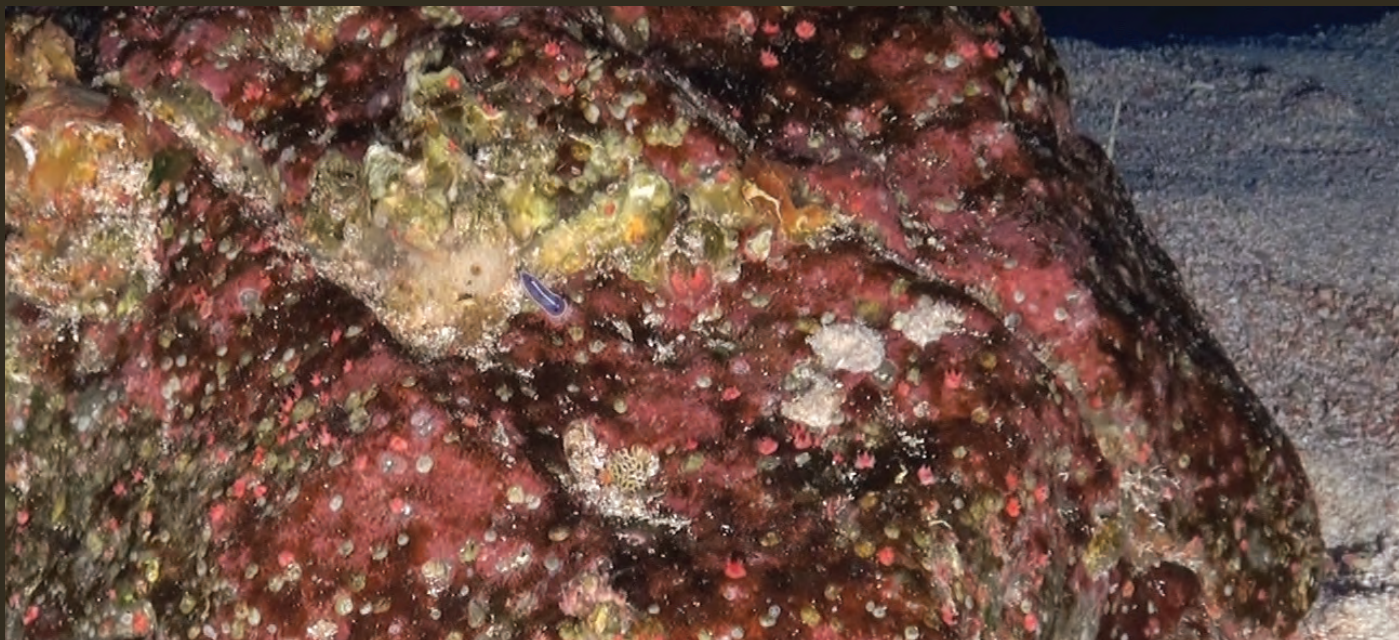
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208

Chromodorididae

Bergh, 1891

Class: Gastropoda
Order: Nudibranchia
Family: Chromodorididae



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209

Nudibranchia

Cuvier, 1817

Class: Gastropoda
Order: Nudibranchia
Family:



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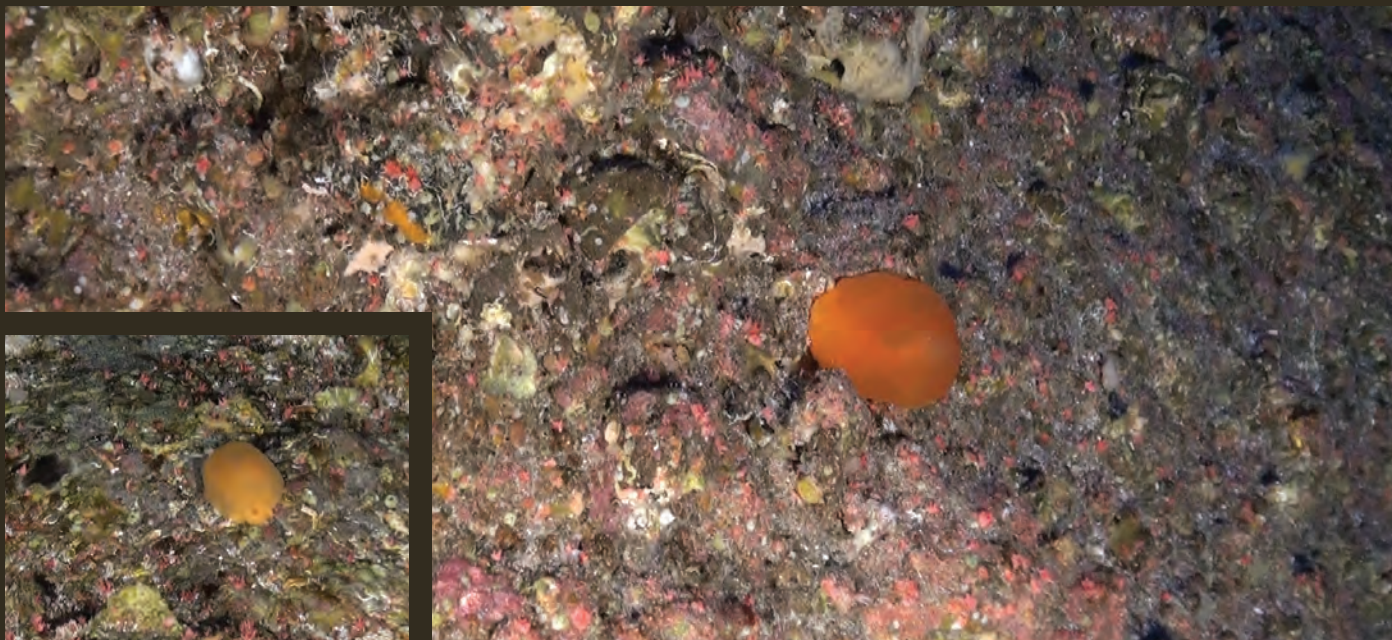
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210

Berthellina edwardsi

(Vayssière, 1896)

Class: Gastropoda
Order: Pleurobranchomorpha
Family: Pleurobranchidae



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GORRINGE BANK

211

Calliostoma cf. *conulus*

(Linnaeus, 1758)

Class: Gastropoda
Order:
Family: Calliostomatidae



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GORRINGE BANK

212

Calliostoma sp.1

Swainson, 1840

Class: Gastropoda
Order:
Family: Calliostomatidae



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GORRINGTON BANK

213

Calliostoma sp.2

Swainson, 1840

Class: Gastropoda
Order:
Family: Calliostomatidae



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GORRINGE BANK

214

Calliostoma sp.3

Swainson, 1840

Class: Gastropoda

Order:

Family: Calliostomatidae



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GORRINGTON BANK

215

Calliostoma sp.4

Swainson, 1840

Class: Gastropoda
Order:
Family: Calliostomatidae



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217

Coronaster volsellatus

(Sladen, 1889)

Class: Asteroidea
Order: Forcipulatida
Family: Asteriidae



Coscinasterias tenuispina

(Lamarck, 1816)

Class: Asteroidea
Order: Forcipulatida
Family: Asteriidae



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219

Anseropoda placenta

(Pennant, 1777)

Class: Asterozoa
Order: Valvatida
Family: Asterinidae



ECHINODERMATA

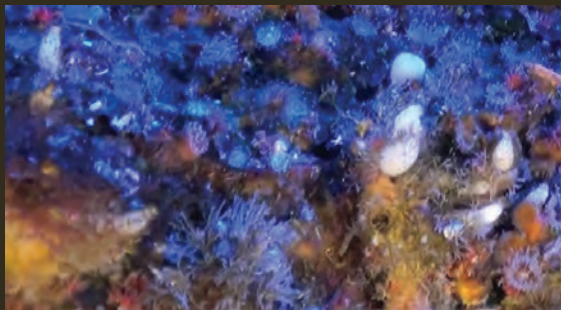
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220

Chaetaster longipes

(Retzius, 1805)

Class: Asteroidea
Order: Valvatida
Family: Chaetasteridae



Hacelia attenuata

Gray, 1840

Class: Asteroidea
Order: Valvatida
Family: Ophidiasteridae



ECHINODERMATA

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GORRINGE BANK

222

Hacelia superba

H.L. Clark, 1921

Class: Asteroidea
Order: Valvatida
Family: Ophiasteridae



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GORRINGE BANK

223

cf. *Sclerasterias contorta*

(Perrier, 1881)

Class: Asteroidea
Order: Forcipulatida
Family: Asteriidae



ECHINODERMATA

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GORRINGE BANK

224

Asteroidea

de Blainville, 1830

Class: Asteroidea
Order:
Family:



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GORRINGE BANK

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Leptometra celtica

(M'Andrew & Barrett, 1857)

Class: Crinoidea
Order: Comatulida
Family: Antedonidae



Poliometra sp.

AH Clark, 1923

Class: Crinoidea
Order: Comatulida
Family: Antedonidae



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GORRINGE BANK

227

Neocomatella sp.

AH Clark, 1909

Class: Crinoidea
Order: Comatulida
Family: Comatulidae



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GORRINGE BANK

228

Koehlermetra sp.

AH Clark, 1950

Class: Crinoidea
Order: Comatulida
Family: Thalassometridae



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GORRINGE BANK

229

Crinoidea

Class: Crinoidea
Order:
Family:



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GORRINGE BANK

230

Crinoidea

Class: Crinoidea
Order:
Family:



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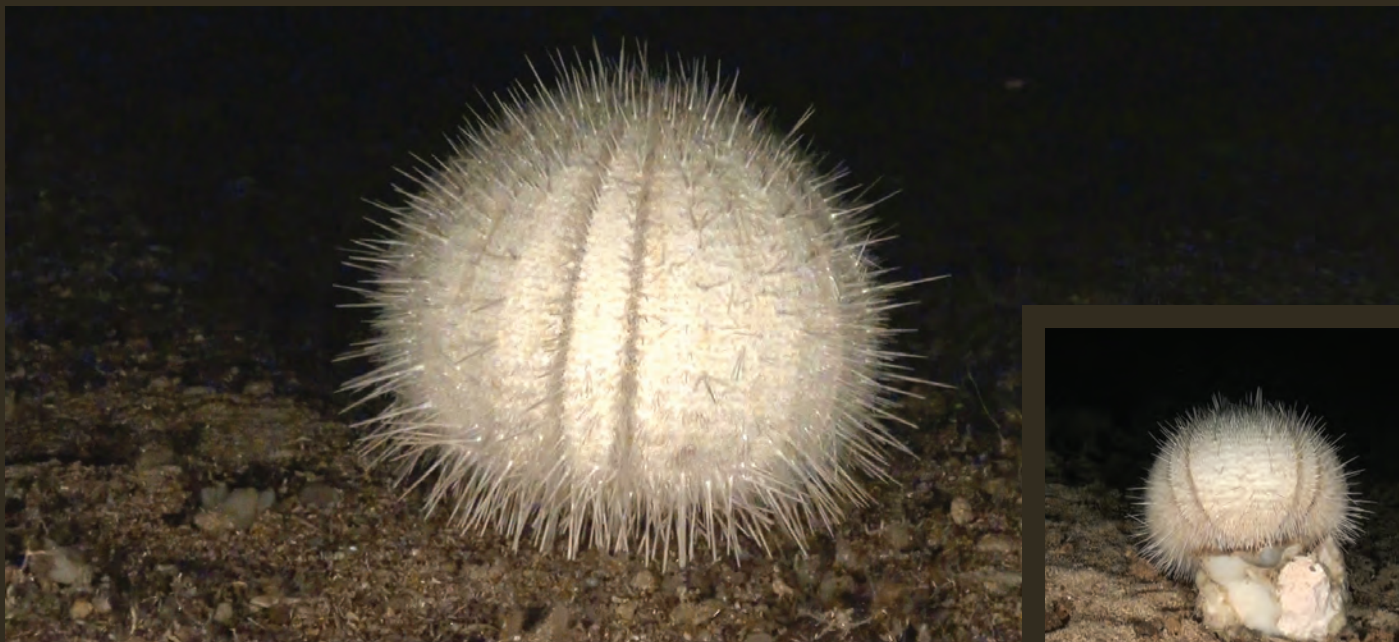
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231

Echinus melo

Lamarck, 1816

Class: Echinoidea
Order: Camarodonta
Family: Echinidae



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GORRINGE BANK

232

Sphaerechinus granularis

(Lamarck, 1816)

Class: Echinoidea
Order: Camarodonta
Family: Toxopneustidae



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233

Cidaris cidaris

(Linnaeus, 1758)

Class: Echinoidea
Order: Cidaroida
Family: Cidaridae



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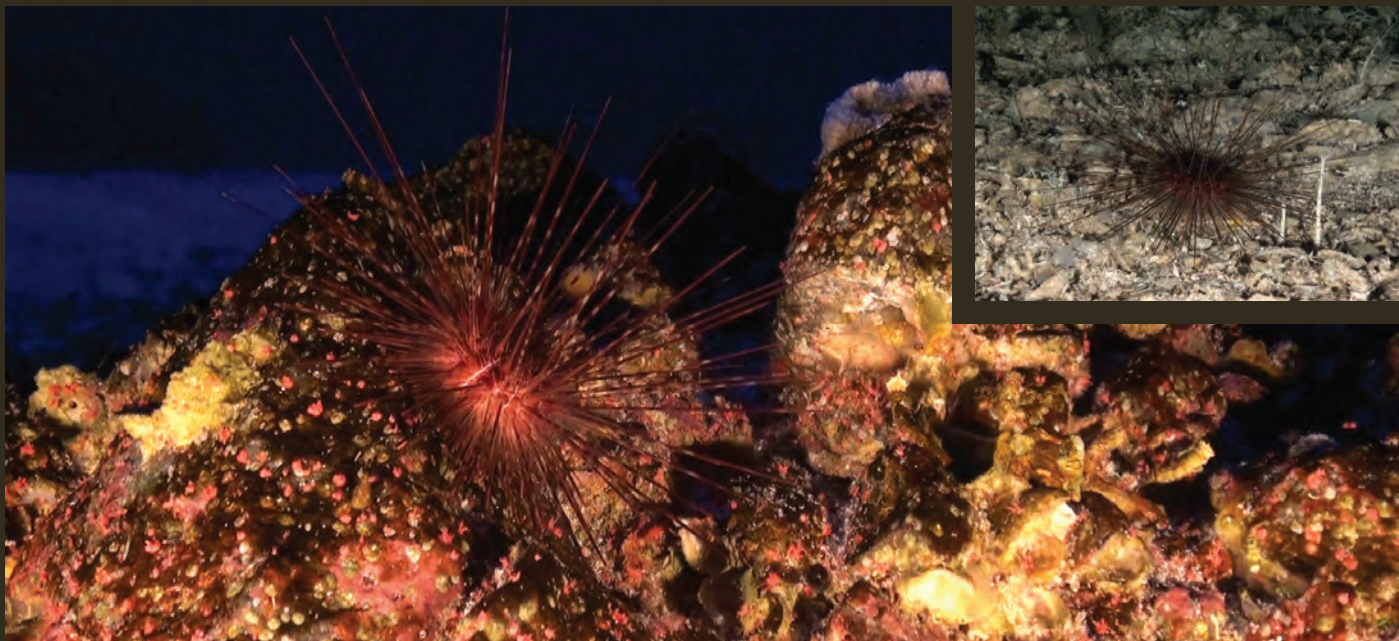
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234

Centrostephanus longispinus

(Philippi, 1845)

Class: Echinoidea
Order: Diadematoida
Family: Diadematidae



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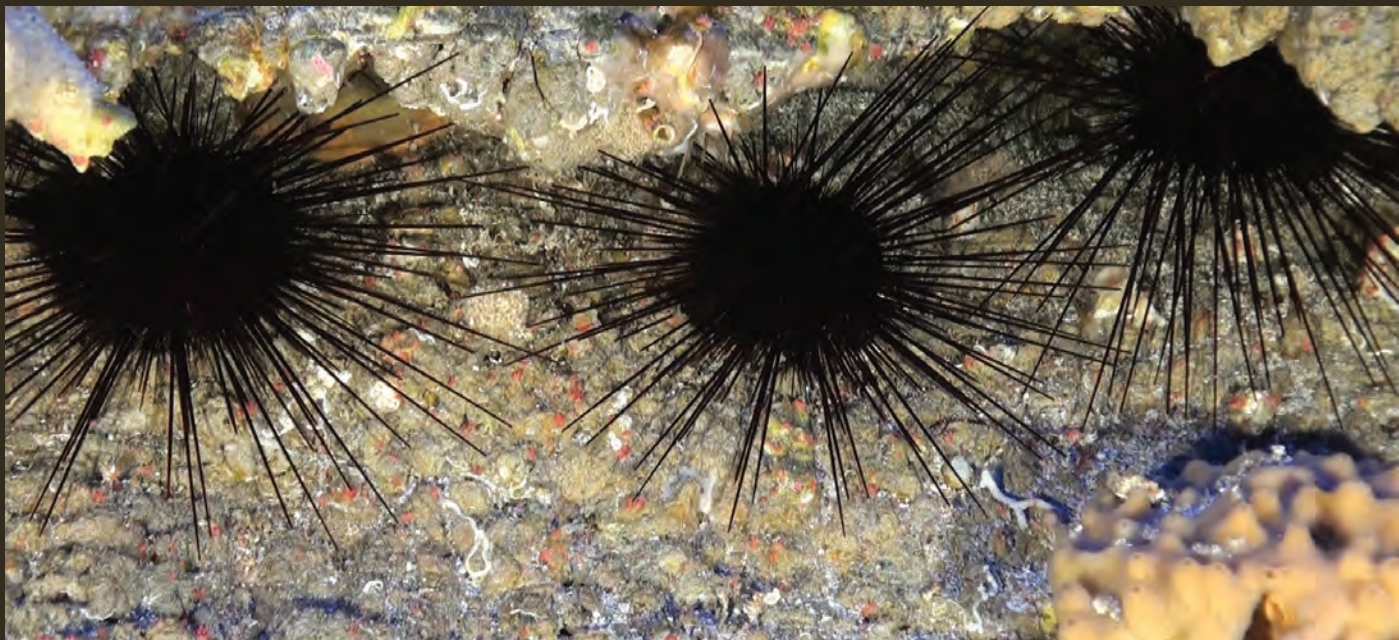
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235

Diadema africanum

Rodríguez, Hernández, Clemente & Coppard, 2013

Class: Echinoidea
Order: Diadematoida
Family: Diadematidae



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GORRINGE BANK

236

Holothuria sp.

Linnaeus, 1767

Class: Holothuroidea
Order: Aspidochirota
Family: Holothuriidae



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237

Holothuria forskali

Delle Chiaje, 1823

Class: Holothuroidea
Order: Aspidochirotida
Family: Holothuriidae



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Holothuria lentiginosa

Menzies, 1892

Class: Holothuroidea
Order: Aspidochirota
Family: Holothuriidae



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Ophiuroidea

Gray, 1840

Class: Ophiuroidea
Order:
family:



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CHORDATA

ASCIDIACEA

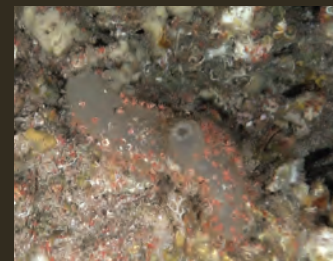
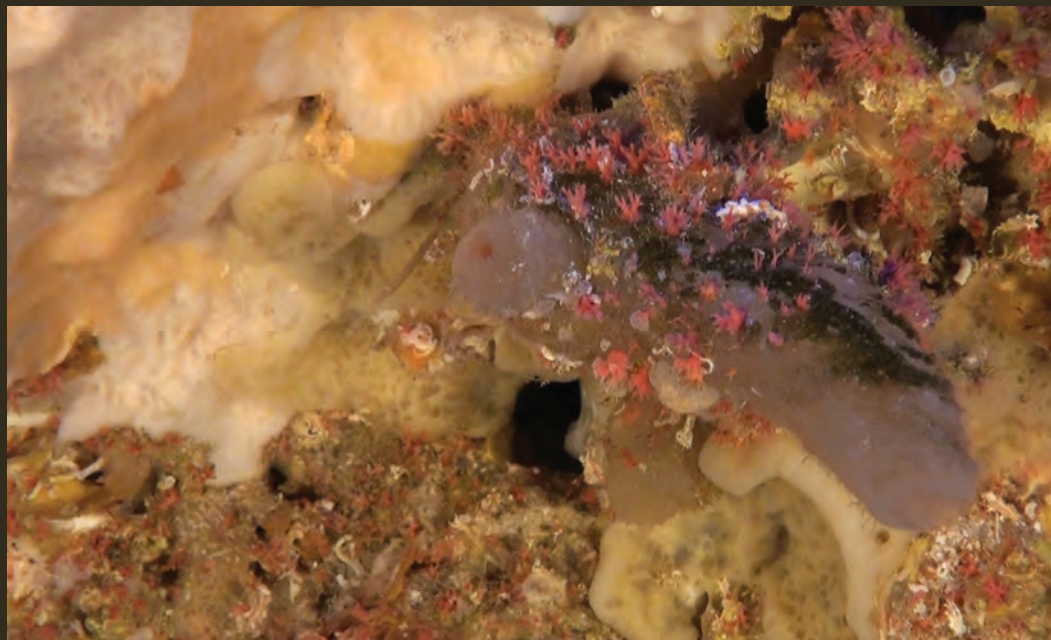
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241

Ascidia mentula

Müller, 1776

Class: Ascidiacea
Order: Phlebobranchia
Family: Ascidiidae



CHORDATA ASCIDIACEA

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OF THE SPECIES OF THE
GORRINGE BANK

242

Ascidia conchilega

Muller, 1776

Class: Ascidiacea
Order: Phlebobranchia
Family: Ascidiidae



CHORDATA ASCIDIACEA

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OF THE SPECIES OF THE
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243

Diazona violacea

Savigny, 1816

Class: Ascidiacea
Order: Phlebobranchia
Family: Diazonidae



CHORDATA ASCIDIACEA

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GORRINGE BANK

244

Asciaceae (unassigned)

Nielsen, 1995

Class: Asciacea
Order:
Family:



CHORDATA ASCIDIACEA

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GORRINGE BANK

245

Asciaceae (unassigned)

Nielsen, 1995

Class: Asciacea
Order:
Family:



Asciaceae (unassigned)

Nielsen, 1995

Class: Asciacea
Order:
Family:



CHORDATA ASCIDIACEA

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247



CHORDATA

ACTINOPTERI

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248

Muraena helena

Linnaeus, 1758

Class: Actinopteri
Order: Anguilliformes
Family: Muraenidae



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249

Conger conger

(Linnaeus, 1758)

Class: Actinopteri
Order: Anguilliformes
Family: Congridae



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250

Aulopus filamentosus

(Bloch, 1792)

Class: Actinopteri
Order: Aulopiformes
Family: Aulopidae



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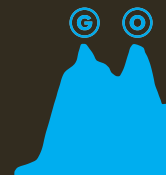
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GORRINGE BANK

251

Chlorophthalmus agassizi

Bonaparte, 1840

Class: Actinopteri
Order: Aulopiformes
Family: Chlorophthalmidae



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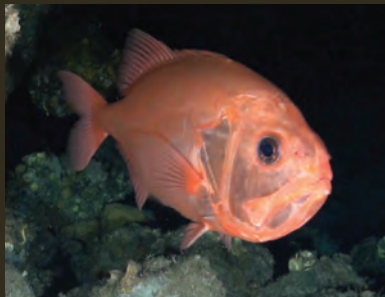
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252

Gephyroberyx darwinii

(Johnson, 1866)

Class: Actinopteri
Order: Beryciformes
Family: Trachichthyidae



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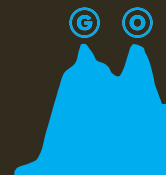
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GORRINGTON BANK

253

Gadiculus argenteus

Guichenot, 1850

Class: Actinopteri
Order: Gadiformes
Family: Gadidae



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GORRINGE BANK

254

Coelorinchus caelorhincus

(Risso, 1810)

Class: Actinopteri
Order: Gadiformes
Family: Macrouridae



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GORRINGE BANK

255

Hymenocephalus italicus

Giglioli, 1884

Class: Actinopteri
Order: Gadiformes
Family: Macrouridae



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GORRIGE BANK

256

Malacocephalus laevis

(Lowe, 1843)

Class: Actinopteri
Order: Gadiformes
Family: Macrouridae



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GORRINGE BANK

257

Nezumia sclerorhynchus

(Valenciennes, 1838)

Class: Actinopteri
Order: Gadiformes
Family: Macrouridae



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258

Laemonema yarrellii

(Lowe, 1838)

Class: Actinopteri
Order: Gadiformes
Family: Moridae



Physiculus dalwigki

Kaup, 1858

Class: Actinopteri
Order: Gadiformes
Family: Moridae



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260

Phycis phycis

(Linnaeus, 1766)

Class: Actinopteri
Order: Gadiformes
Family: Phycidae



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261

Chaunax pictus

Lowe, 1846

Class: Actinopteri
Order: Lophiiformes
Family: Chaunacidae



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262

Lophius budegassa

Spinola, 1807

Class: Actinopteri
Order: Lophiiformes
Family: Lophiidae



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263

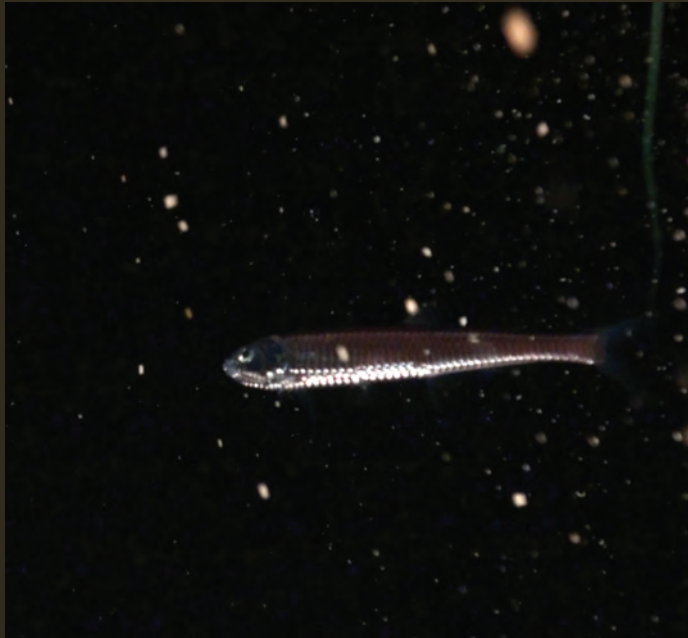
Notoscopelus sp.

Günther, 1864

Class: Actinopteri
Order: Myctophiformes
Family: Myctophidae



CHORDATA ACTINOPTERI



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GORRINGE BANK

264

Benthocometes robustus

(Goode & Bean, 1886)

Class: Actinopteri
Order: Ophidiiformes
Family: Ophidiidae



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GORRINGE BANK

265

Ammodytidae

Bonaparte, 1835

Class: Actinopteri
Order: Perciformes
Family: Ammodytidae



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GORRINGE BANK

266

Callanthias ruber

(Rafinesque, 1810)

Class: Actinopteri
Order: Perciformes
Family: Callanthiidae



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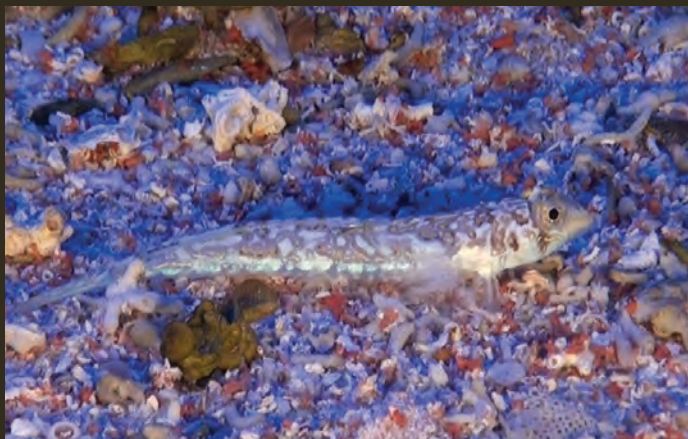
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267

Callionymus spp.

Linnaeus, 1758

Class: Actinopteri
Order: Perciformes
Family: Callionymidae



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268

Synchiropus phaeton

(Günther, 1861)

Class: Actinopteri
Order: Perciformes
Family: Callionymidae



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269

Antigonia capros

Lowe, 1843

Class: Actinopteri
Order: Perciformes
family: Caproidae



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GORRINGE BANK

270

Capros aper

(Linnaeus, 1758)

Class: Actinopteri
Order: Perciformes
Family: Caproidae



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271

Seriola rivoliana

Valenciennes, 1833

Class: Actinopteri
Order: Perciformes
Family: Carangidae



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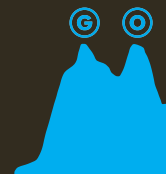
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272

Trachurus sp.

Rafinesque, 1810

Class: Actinopteri
Order: Perciformes
Family: Carangidae



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273

Centrodraco acanthopoma

(Regan, 1904)

Class: Actinopteri
Order: Perciformes
Family: Draconettidae



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GORRINGE BANK

274

Epigonus sp.

Rafinesque, 1810

Class: Actinopteri
Order: Perciformes
Family: Epigonidae



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GORRINGE BANK

275

Kyphosus sectatrix

(Linnaeus, 1758)

Class: Actinopteri
Order: Perciformes
Family: Kyphosidae



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276

Acantholabrus palloni

(Risso, 1810)

Class: Actinopteri
Order: Perciformes
Family: Labridae



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OF THE SPECIES OF THE
GORRINGE BANK

277

Centrolabrus trutta

(Lowe, 1834)

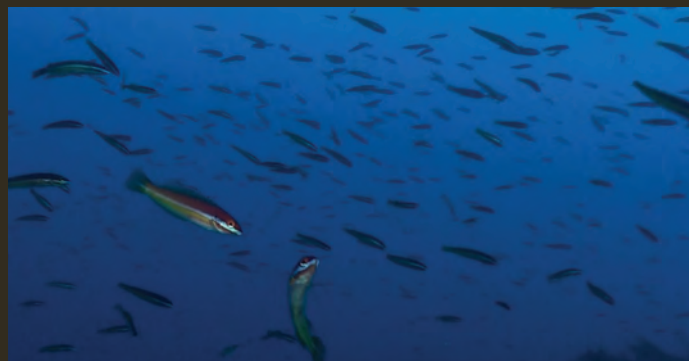
Class: Actinopteri
Order: Perciformes
Family: Labridae



Coris julis

(Linnaeus, 1758)

Class: Actinopteri
Order: Perciformes
Family: Labridae



CHORDATA: ACTINOPTERI

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279

Labrus bergylta

Ascanius, 1767

Class: Actinopteri
Order: Perciformes
Family: Labridae



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GORRINGE BANK

280

Lappanella fasciata

(Cocco, 1833)

Class: Actinopteri
Order: Perciformes
Family: Labridae



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GORRINGE BANK

281

Symphodus mediterraneus

(Linnaeus, 1758)

Class: Actinopteri
Order: Perciformes
Family: Labridae



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GORRIDGE BANK

282

Mullus surmuletus

Linnaeus, 1758

Class: Actinopteri
Order: Perciformes
Family: Mullidae



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GORRINGE BANK

283

Abudefduf luridus

(Cuvier, 1830)

Class: Actinopteri
Order: Perciformes
Family: Pomacentridae



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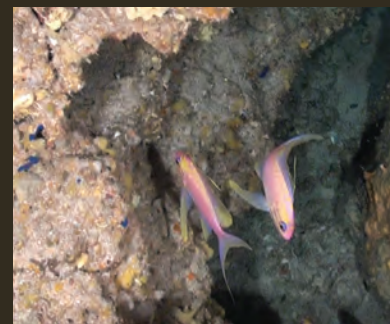
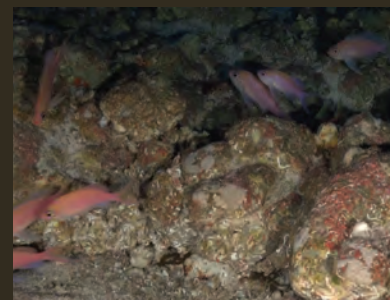
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284

Anthias anthias

(Linnaeus, 1758)

Class: Actinopteri
Order: Perciformes
Family: Serranidae



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GORRINGE BANK

285

Serranus atricauda

Günther, 1874

Class: Actinopteri
Order: Perciformes
Family: Serranidae



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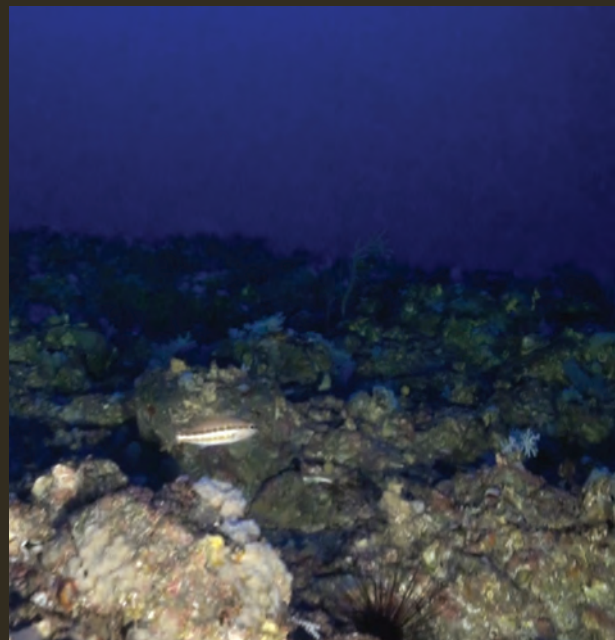
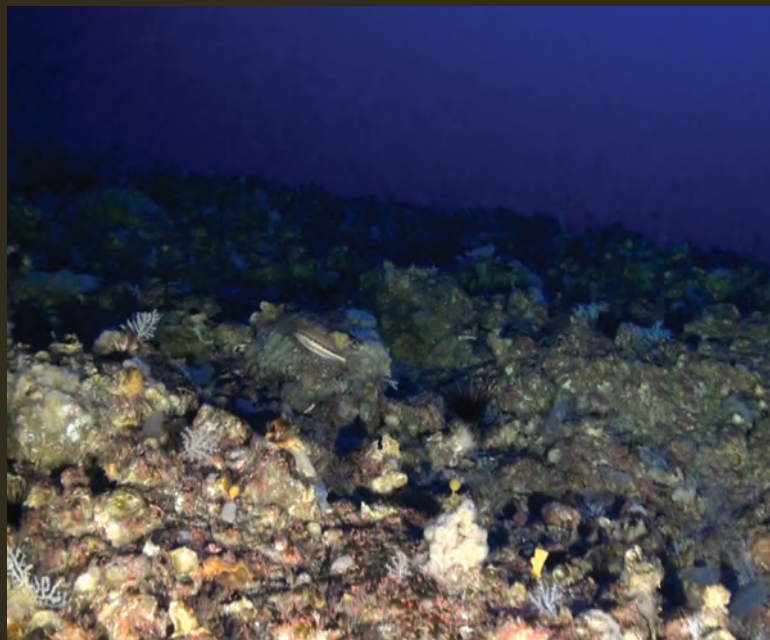
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286

Serranus cabrilla

(Linnaeus, 1758)

Class: Actinopteri
Order: Perciformes
Family: Serranidae



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287

Sphyraena sp.

Artedi, 1793

Class: Actinopteri
Order: Perciformes
Family: Sphyraenidae



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GORRINGE BANK

288

Arnoglossus rueppelii

(Cocco, 1844)

Class: Actinopteri
Order: Pleuronectiformes
Family: Bothidae



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289

Lepidorhombus whiffiagonis

(Walbaum, 1792)

Class: Actinopteri
Order: Pleuronectiformes
Family: Scophthalmidae



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290

Pontinus kuhlii

(Bowdich, 1825)

Class: Actinopteri
Order: Scorpaeniformes
Family: Scorpaenidae



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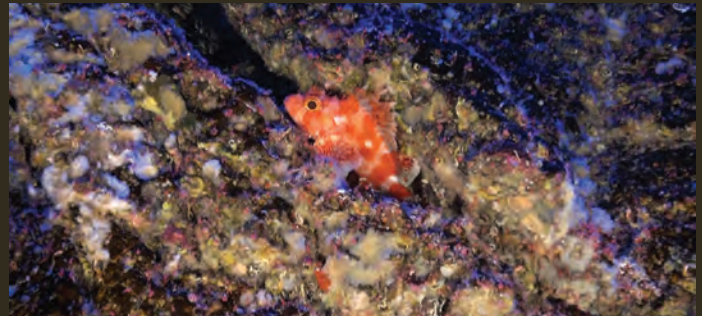
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291

Scorpaena maderensis

Valenciennes, 1833

Class: Actinopteri
Order: Scorpaeniformes
Family: Scorpaenidae



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GORRINGE BANK

292

Scorpaena scrofa

Linnaeus, 1758

Class: Actinopteri
Order: Scorpaeniformes
Family: Scorpaenidae



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293

Scorpaenidae

Risso, 1827

Class: Actinopteri
Order: Scorpaeniformes
Family: Scorpaenidae



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294

Helicolenus dactylopterus

(Delaroche, 1809)

Class: Actinopteri
Order: Scorpaeniformes
Family: Sebastidae



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GORRINGE BANK

295

Setarches guentheri

Johnson, 1862

Class: Actinopteri
Order: Scorpaeniformes
Family: Setarchidae



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296

Chelidonichthys cuculus

(Linnaeus, 1758)

Class: Actinopteri
Order: Scorpaeniformes
Family: Triglidae



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297

Macroramphosus scolopax

(Linnaeus, 1758)

Class: Actinopteri
Order: Syngnathiformes
Family: Centricidae



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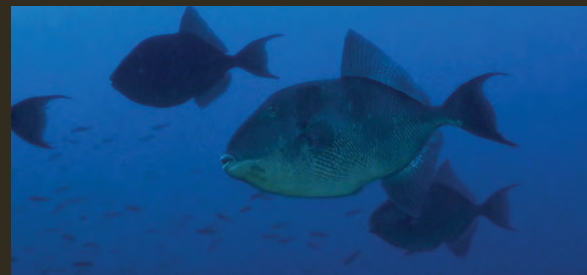
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298

Balistes capriscus

Gmelin, 1789

Class: Actinopteri
Order: Tetraodontiformes
Family: Balistidae



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299

Grammicolepis brachiusculus

Poey, 1873

Class: Actinopteri
Order: Zeiformes
Family: Grammicolepididae



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300

Cyttopsis rosea

(Lowe, 1843)

Class: Actinopteri
Order: Zeiformes
Family: Parazenidae





CHORDATA

ELASMOBRANCHII

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302

Deania profundorum

(Smith & Radcliffe, 1912)

Class: Elasmobranchii
Order: Squaliformes
Family: Centrophoridae



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303

Dipturus oxyrinchus

(Linnaeus, 1758)

Class: Elasmobranchii
Order: Rajiformes
Family: Rajidae



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304

Torpedo marmorata

Risso, 1810

Class: Elasmobranchii
Order: Torpediniformes
Family: Torpedinidae



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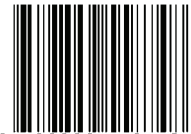
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