

# Med Sea Life in a Warming World

# CALENDARIO 2021

(English translation)



Astroides calycularis (Orange scleractinia) Aegadian Islands Marine Protected Area FAVIGNANA- Punta Sottile

The main threats for this species are related to illegal sea date fishing (*Lithophaga lithophaga*) whose withdrawal implies the removal of large rocky surfaces and determines the destruction of its preferential habitat. Also, the recreational diving can accelerate the colonies damage through accidental contact. As other scleractinian species *Astroides* can undergo bleaching events already documented also in other Mediterranean areas. A recently published study highlighted cooperation phenomena between polyps, which allow them to prey on Pelagia noctiluca jellyfish to feed on them.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
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4	5	6	7	8	9	1
11	12	13	14	15	16	<u>1</u>
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25	26	27	28	29	30	3

### January 2021



#### Paramuricea clavata (Red mediterranean gorgonian) Medes Islands Marine Reserve (Spain); Banco di Santa Croce (Campania, Southern Tyrrenian Sea)

The gorgonian are filter-feeding animals and they form real submerged forests. They are shelther for several marine organisms and represent keystone species within the Mediterranean

coralligenous habitat. Gorgonians can be used to evaluate the state of health of the seabed habitats and quantify the effects of climate change on marine ecosystems functioning. Prolonged thermal anomalies and water overheating can lead to mass mortality events of colonies and tissue necrosis with consequent loss of the polyps that make up the filtering portion of the colony.

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## February 2021



### Posidonia oceanica

#### Aegadian Islands Marine Protected Area: FAVIGNANA

*Posidonia* is an endemic Mediterranean seagrass. The submerged meadows have a functional role analogous to those of terrestrial forests: they provide shelter to many species of organisms, producing oxygen, absorbing large quantities of CO<sub>2</sub>, stabilizing the seabed through the roots. The foliar residues that often accumulate through storm surges (banquette) protect the coasts by

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March 2021

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29	30	31				



Bycatch and beach litter Marine Protected Area "Regno di Nettuno": SANT'ANGELO, Ischia Island (on the left) Aegadian Islands Marine Protected Area: FAVIGNANA (up) Circeo Man and Biosphere Reserve UNESCO: Sabaudia (down)

The use of non-selective collection methods may contribute to the accidental capture of non-target species with scarce commercial interest (bycatch). The abandonment or loss, even involuntary, of fishing gear can lead to a long-term damage. Some nets remain entangled on the seabed like ghost nets continuing to fish even after their time of conventional use, or they can turn into beached waste (beach litter).

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April 2021



#### Seabed cleaning activities Aegadian Islands Marine Protected Area: FAVIGNANA (Cala Graziosa)

The abandoned wastes that we find on the beach or lying on the seabed as well as being a form of direct pollution can act as vectors of non-native organisms, pathogens and invasive species. Through the phenomenon of biofouling, many species of crustaceans, microorganisms or plants, finding solid substrates on which to take root, settle and are transported by currents spreading even

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May	2021

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New tenants in our sea: the alien seagrass *Halophila stipulacea* Cilento National Park- Palinuro Harbor

The introduction of alien species for accidental transport or human-driven voluntary introduction is the other side of the ongoing climatic emergency. Finding favorable environmental conditions some alien organisms can settle by competing with local native species. This is what has recently been documented in some areas of the Mediterranean basin, for some tropical seagrass (*Halophila spp.*)

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#### June 2021

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Corallium rubrum (Red coral)

"Capo Caccia-Isola Piana" Marine Protected Area (Sardinian West coast- Central Thyrrenian Sea) Corallium rubrum is a Mediterranean endemic species exploited since ancient times for commercial purposes. What remains of the largest colonies of red coral in the Mediterranean is now found at ever greater depths. Colonies have a very slow growth rate, which can vary on average between 0.25 and 0.66 mm in basal diameter over a period of one year. The species is currently protected by various international instruments and is included in the list of protected species of the SPA/BIO

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## August 2021

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# September 2021

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## October 2021

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## December 2021

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20	21	22	23	24	25	<u>26</u>
27	28	29	30	31		



#### WISHES FOR A GOOD 2021 LOOKING FOR A DECADE DEDICATED TO THE PROTECTION OF THE BLUE PORTION OF OUR PLANET

Cover photo: Regno di Nettuno MPA- Ischia Punta San Pietro

Back cover: Capo Caccia- Isola Piana MPA Sardinia- Porto Conte Bay (Alghero)

Photos, illustrations and texts by: MARTINA GAGLIOTI

English translation revision: Eileen Finnegan