

MPAs IN THE MEDITERRANEAN SEA

Addressing opportunities to face the protection gap



First Working Group on MPAs SAC - SCMEE Bar, Montenegro 3 February 2014





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A Fisheries perspective



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the stocks a HAK MER THE GENER SARI

Status of stocks

Imma

On the establishment of seasonal closure and fisheries restricted areas to protect sensitive habitat

- Considering that integration of environmental concerns in fisheries management is a way to protect the structure and functioning of the marine ecosystems that are in turn fundamental to the overall production of the seas, including the exploited resources and to the benefit of sustainable fisheries, GFCM established
- Deep Sea fisheries restricted area "Lophelia reef off Capo Santa Maria di Leuca"
- Deep Sea fisheries restricted area "The Nile delta area cold hydrocarbon seeps"
- Deep Sea fisheries restricted area "The Eratosthemes Seamount"
- Fisheries restricted area of the eastern Gulf of Lions to regulate the fishing effort for demersal stocks
- Fishing dolphin fish (Coryphaena hippunus), in particular in fisheries using fish aggregating devices (FADs) prohibited from 1 January to 14 August in all geographical sub-areas.





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FRAs



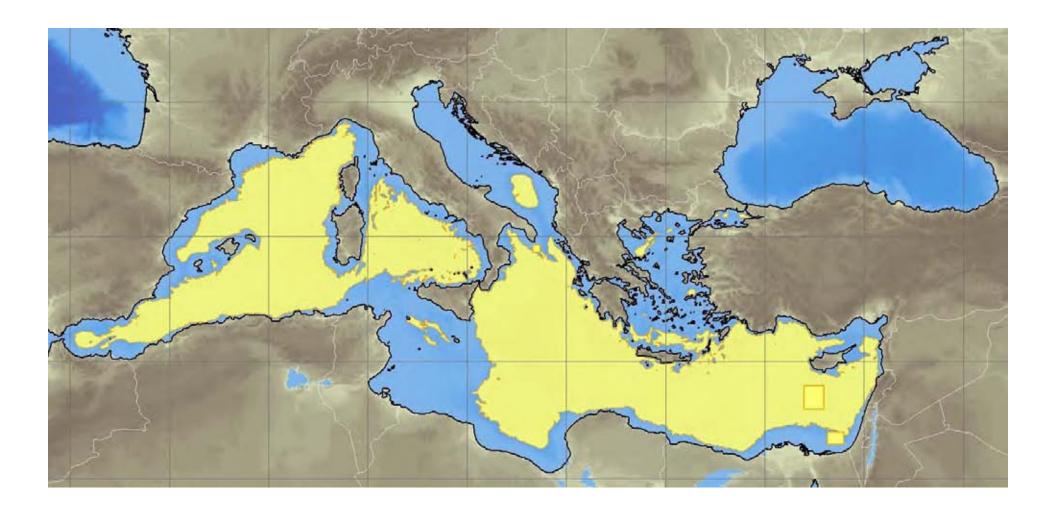
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Rec. GFCM/33/2009/1 - Bottom trawling closure -1000m







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EU Consultation on Fishing Opportunities for



The Commission will discuss the implementation of fisheries management measures in the Mediterranean Sea with stakeholders and Member States. Where there is agreement that an early adoption of measures would be beneficial

2009

In the Mediterranean Sea the only TAC at present is the one for Bluefin tuna. In 2008, work will focus on the implementation of the Mediterranean Regulation (1967/2006) especially concerning the establishment of long term management plans and the *designation of fisheries* protected areas. It is worrying that the Member States have accumulated considerable delays in implementing this Regulation. Serious shortcomings in compliance must be overcome urgently. The Commission will follow up these matters closely during 2008.

Scientific advice concerning stocks and fisheries assessments will be sought from STECF. This will help improve scientific capability, for example in the GFCM (General Fisheries Commission for the Mediterranean) context.





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EU Consultation on Fishing Opportunities for

2010

The Commission considers that the implementation of the Mediterranean regulation is still less than satisfactory, even in those parts eliciting a bottom-up approach like the national management plans and the provision of relevant information to establish a network of *fishing protected areas*.

Work will continue to prepare Community long term management plans and to promote this approach, together with other conservation actions and specific measures on monitoring and control within the General Fisheries Commission for the Mediterranean (GFCM).

2011

60% of assessed stocks were outside of safe biological limits and 54% were overfished.

NOTE: Assessments for only 16 out of 102 candidate species (not including the elasmobranches, tunas and tunas like species) are available.

2012

82% of the *resources are overfished* and some are depleted to low levels. The percentage of overfished stocks is still too high and there can be no room for complacency: more efforts are needed to phase out overfishing.





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EU Consultation on Fishing Opportunities for

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2013

80% of the resources studied are overfished and some are at low levels. The number and quality of assessments, though still geographically unbalanced and not regular over time have continued to increase, and now cover more than 100 stocks from 27 species; however only 63% of evaluated stocks have been classified according to MSY criteria. The status of 37% of stocks remains unknown. As these assessments have only recently begun and not all of the stocks are assessed every year, it is not possible to use these data to look at the development of the state of the stocks over time.







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SAC Rome, 2013

92% of assessed stocks Overfished

"it should be assumed that the current state of the stocks arises from the application of excessive fishing pressure in previous years"











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OPEN SEA SPAMIs PROJECT (2008-2009 / 2010-2011 / 2012-2014)

April 2014 Mediterranean EBSA workshop June 2014 SBSTTA (Subsidiary Body on Scientific, Technical and Technological Advice) October 2014 CoP CBD





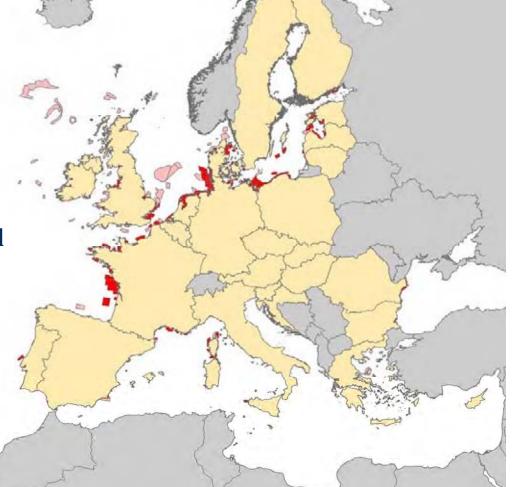


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EU MPAs – Marine Expert Group N2000 (November 2013)

Mediterranean marine N2000 network

- Deficient coverage 2,4%
- Coastal network
- Deep-sea habitats under-represented
- Low management performance (massive infringement of Habitats Directive)

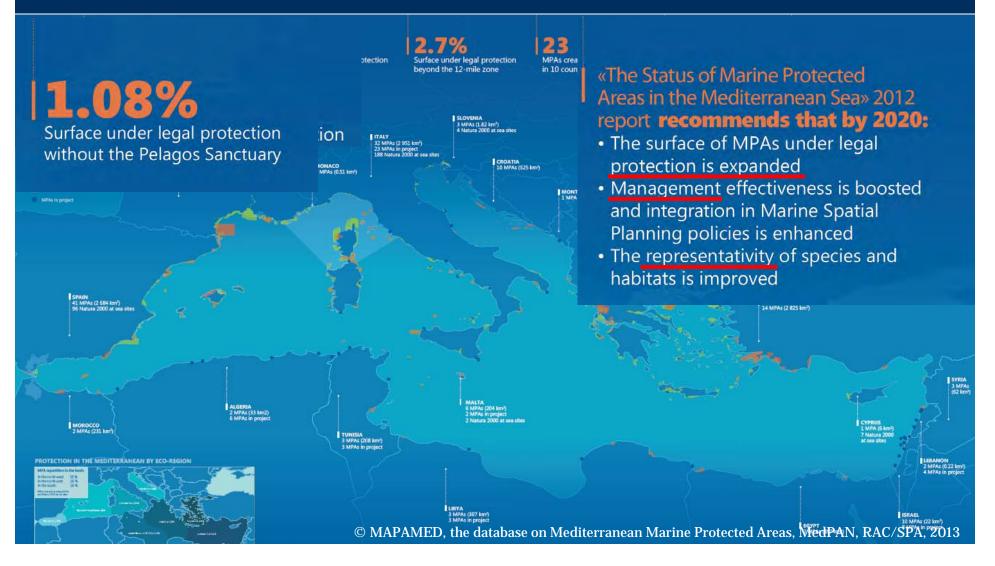






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THE CURRENT STATUS







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Oceana's work to contribute in increasing MPA coverage

1// Simulature

- Providing first-hand information (HD ROV)
- Collaboration with institutions and national/international authorities

OCEANA

• **Developing new MPA proposals based on:**

Scientific information gathered Precautionary Approach implementation International recomendations and legislation



Our targets

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CBD - Aichi Target 11 (2010)

10% protected by 2020 through MPA networks

- Ecologically coherent (habitats representativity)
- Well connected & Well-managed

FAO

VME conservation - International guidelines for the management of deep-sea fisheries in the High Seas (2009)



Good Environmental Status by 2020:

- EcAp process (Mediterranean countries)
- MSFD (EU countries)





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CBD UNEP/CBD/EWS.MPA/1/2



Azores, Portugal, 2-4 October 2007

EXPERT WORKSHOP ON ECOLOGICAL CRITERIA AND BIOGEOGRAPHIC CLASSIFICATION SYSTEMS FOR MARINE AREAS IN NEED OF PROTECTION

REPORT OF THE EXPERT WORKSHOP ON ECOLOGIC. BIOGEOGRAPHIC CLASSIFICATION SYSTEMS FOR MARE PROTECTION

INTRODUCTION

Distr. GENE

1. At its eighth meeting, the Conference of the Parties to the Conv (CBD) requested the Executive Secretary to refine, consolidate and, wh scientific and ecological criteria for the identification of marine area biogeographical and other ecological classification systems, drawing on a national and regional scale. In this regard, the Conference of the Parties' expert workshop and requested the Executive Secretary to provide the r Subsidiary Body on Scientific, Technical and Technological Advice prior to the Secretary-General of the United Nations for the purpose of informant Assembly of the United Nations (decision VIII24, para, 46).

 In pursuance of paragraph 46 of decision VIII/24, the Executive financial support from the Government of Portugal, organized an Expert W and Biogeographic Classification Systems for Marine Areas in Need of 1 2007 in A20045, Portugal. The Workshop was held at the Hotel Marina Miguel Island, Azores, Portugal.

3. The terms of reference of the Workshop were, as described in at (i) refine and develop a consolidated set of scientific criteria for identify significant marine areas in need of protection, in open ocean waters and dexisting sets of criteria used nationally, regionally and globally. (ii) ecological classification systems for definite and cecisity classification systems, and mituding more detailed subregional classification systems gaps, and (iii) compile a consolidated set of scientific criteria for reproported areas, including in open ocean waters and deep-sea habitats.

In order to minimize the environmental imparts of the Secretariat's processes, and to ministry for a C-Neutral UN, this document is primed in limited numbers. Delegates are meetings and not to sequent additional courses. Annex III

UNEP 13 Not ORIGI SCIENTIFIC CRITERIA AND GUIDANCE FOR SELECTING AREAS TO ESTABLISH A REPRESENTATIVE NETWORK OF MARINE PROTECTED AREAS, INCLUDING IN OPEN OCEAN WATERS AND DEEP-SEA HABITATS

The Expert Workshop recommends that the following four initial steps be taken:

- Scientific identification of an initial set of ecologically or biologically significant areas. The criteria in annex II should be used, considering the best scientific information available, and applying the precautionary approach. This identification should focus on developing an initial set of sites already recognised for their ecological values, with the understanding that other sites could be added as new / better information comes available.
- Develop / choose a biogeographic habitat and/or community classification system. This
 system should reflect the scale of the application, and address the key ecological features within
 the area. Usually, this will entail a separation of at least two realms –pelagic and benthic.
- Drawing upon steps 1 & 2 above, iteratively use qualitative and/or quantitative techniques to identify sites to include in a network. Their selection for consideration of enhanced management should reflect their recognised ecological importance, vulnerability, and address the requirements of ecological coherence through:
 - representativity
 - connectivity
 - replication
- Assess the adequacy and viability of the selected sites. Consideration should be given to their size, shape, boundaries, buffering, and appropriateness of the site management regime.





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MedNet Proposal























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Building up connectivity

IUCN-WCPA, 2008

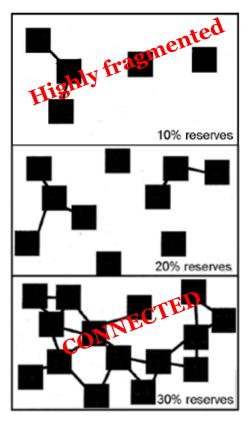


Table 12. Studies on connectivity in MPA networks

AUTHOR (Year)	LARVAL DISPERSAL DISTANCE (km)	LOCATION
Rachor and Günther (2001)	Up to 100	North Sea
Treml <i>et al</i> (2008)	50-100	Pacific
Planes, Jones and Thorrold (2009)	35	Papua New Guinea
Christie et al (2010)	15-184	Hawaii

According to these authors, the effectiveness of the network is determined by the larval dispersal patterns and therefore by their connection to local oceanic or mesoscale currents.

OCEANA, 2011









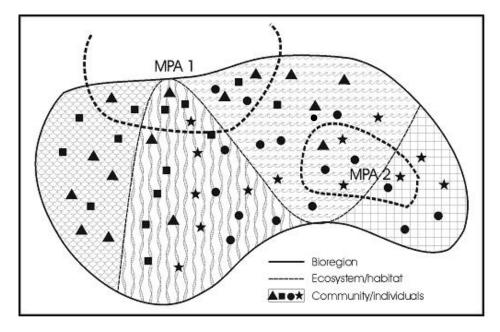


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Representativeness

MedNet varied Figures, Species and Habitats



- Seamounts
- Submarine canyons
- Banks
- Scarpments
- Ridge
- Gyres
- Abysal plain
- Mud volcanoes
- Hydrothermal vents
- Carbonate mounds
- Etc...

- Cold water corals
- Sponge aggregations
- Gorgonian gardens
- Cetaceans
- Turtles
- Monk seal
- Deep-sea sharks
- Commercial species (nurseries/spawning grounds):
 - ✓ Hake
 - ✓ Monkfish
 - ✓ Red mullet
 - ✓ BFT
 - ✓ Small pelagics





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Seamounts & Submarine canyons to follow international committments



INTERNATIONAL GUIDELINES FOR THE MANAGEMENT OF DEEP-SEA FISHERIES IN THE HIGH SEAS

DIRECTIVES INTERNATIONALES SUR LA GESTION DE LA PÊCHE PROFONDE EN HAUTE MER

DIRECTRICES INTERNACIONALES PARA LA ORDENACIÓN DE LAS PESQUERÍAS DE AGUAS PROFUNDAS EN ALTA MAR



FAO Guidelines

Examples of species groups, communities and habitat forming species that are documented or considered sensitive and potentially vulnerable to DSFs in the high-seas, and which may contribute to forming VMEs:

- certain coldwater corals and hydroids, e.g. reef builders and coral forest including: stony corals (Scleractinia), alcyonaceans and gorgonians (Octocorallia), black corals (Antipatharia) and hydrocorals (Stylasteridae);
- ii. some types of sponge dominated communities;
- iii. communities composed of dense emergent fauna where large sessile protozoans (xenophyophores) and invertebrates (e.g. hvdroids and brvozoans) form an important structural component
 - Examples of topographical, hydrophysical or geological features, including
- iv. s fragile geological structures, that potentially support the species groups or
 - n communities, referred to above:
 - i. submerged edges and slopes (e.g. corals and sponges);
 - summits and flanks of seamounts, guyots, banks, knolls, and hills (e.g. corals, sponges, xenophyphores);
 - iii. canyons and trenches (e.g. burrowed clay outcrops, corals);
 - iv. hydrothermal vents (e.g. microbial communities and endemic invertebrates); and
 - v. cold seeps (e.g. mud volcanoes for microbes, hard substrates for sessile invertebrates).





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Seamounts & Submarine canyons to follow international committments

BIOLOGICAL DIVERSITY	UNEP-CBD/EWS.MPA/1/2 13 November 2007 ORIGENAL: ENGLISH	EXAMPLES OF FEAT IDENTIFYING ECOLOG
EXPERT WORKSHOP ON ECOLOGICAL CRITERIA AND BIOGEOGRAPHIC CLASSIFICATION SYSTEMS FOR MARINE AREAS IN NEED OF PROTECTION Azores, Portugal, 2:4 October 2007		<i>Benthic featur</i> • <u>Seamount</u>
REPORT OF THE EXPERI WORKSHO BIOGEOGRAPHIC CLASSIFICATION SYST PROTEC	EMS FOR MARINE AREAS IN NEED OF	Cold wate
INTRODU	CTION	 Coral, spo
 At its eighth meeting, the Conference of the (CBD) requested the Executive Secretary to refine, o coientific and ecological criteria for the identificant biogeographical and other ecological classification syn national and regional scale. In this regard, the Confere expert workshop and requested the Executive Secret Subsidiary Body on Scientific, Technical and Technol to the Secretary-General of the United Nations for the J Assembly of the United Nations (decision VIII/24, para 	on of marine areas in need of protection, and steam, drawing on experise and experience at the ence of the Parties decided to converte a scientific ary to provide the results of this workshop to the optical Advice prior to its manth meeting as well as anyones of informing the process inder the General	HydrotherGas hydraCold seeps
2. In pursuance of paragraph 46 of decision VIII/24, the Executive Secretary, with the generous financial support from the Government of Portugal, organized an Expert Workshop on Ecological Criteria and Biogeographic Classification Systems for Marine Areas in Need of Protection from 2 to 4 October 2007 in Azores, Portugal. The Workshop was held at the Hotel Marina Atlantico, Ponta Delgada, San Miguel Island, Azores, Portugal.		 Pseudo ab <u>Canvons</u>
3. The terms of reference of the Workshop were (i) refine and develop a consolidated set of scientific- significant marine areas in need of protection, in open existing sets of criteria used nationally, regionally ecological classification systems for delineating ocean classification systems, and including more detailed set a nested approach, and initiate future development by gaps: and (iii) compile a consolidated set of scienti protected areas, including in open ocean waters and dee	ocean waters and deep sea habitats, building upon and globally. (ii) compile biogeographical and regions and ecosystems, building on enshing broad regional classification systems where they exist in making recommendations for further work to fall lic criteria for representitive networks of marine	SubmergeCarbonateTrenches

EBSA criteria

Appendix to Annex II

S THAT WOULD MEET THE SCIENTIFIC CRITERIA FOR LY OR BIOLOGICALLY SIGNIFICANT MARINE AREAS OR SPECIES 4/

- nmunities
- ral reefs
- and bryozoan aggregations
- vent ecosystems
- al depressions (basin-like structure)
- olls, bank and guyot communities
- unds

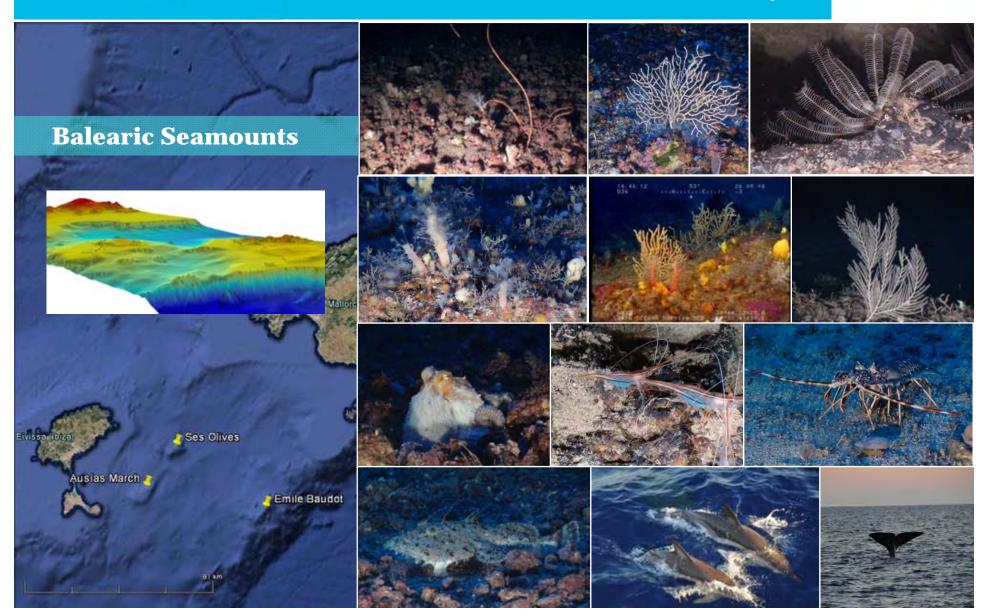


















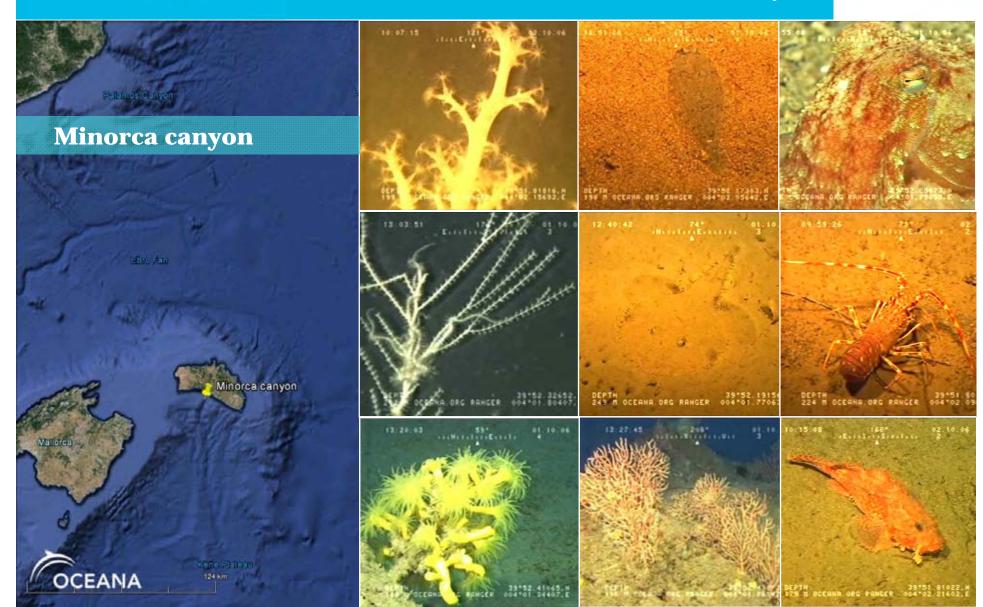






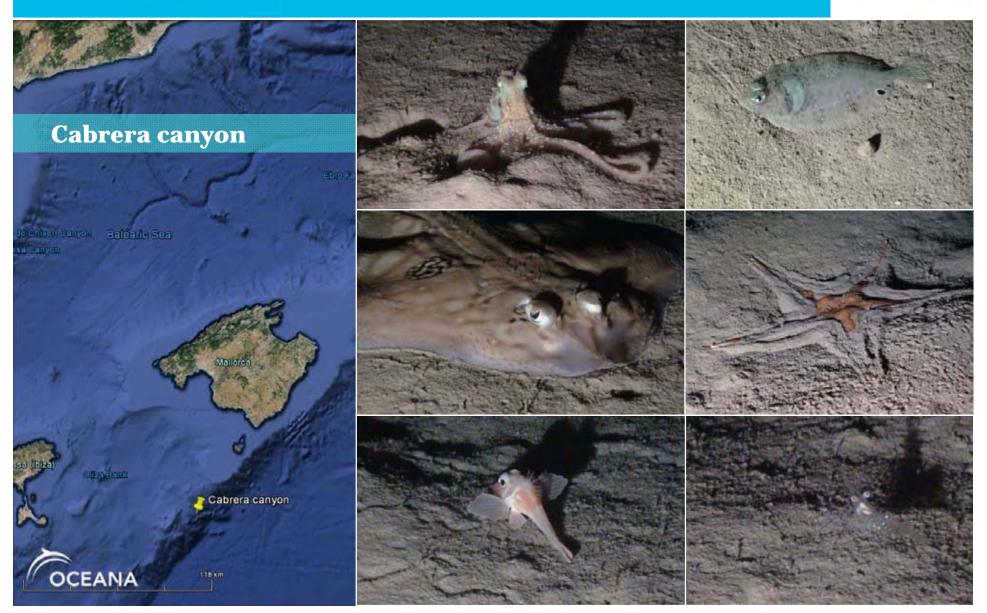
















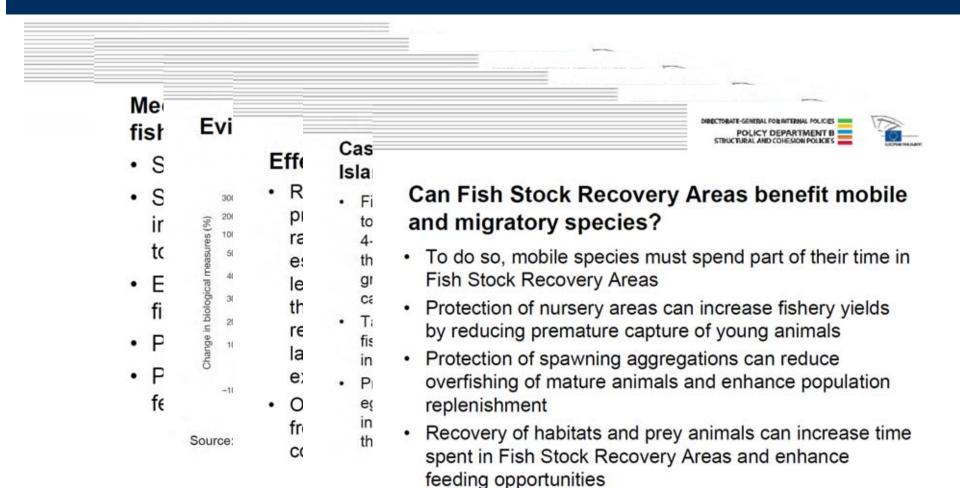




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MPA benefits (Roberts, 2012)













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THE WAY FORWARD – GFCM tools



37th meeting of GFCM

Resolution GFCM/37/2013/1

on area based management of fisheries, including through the establishment of Fisheries Restricted Areas (FRAs) in the GFCM convention area and coordination with the UNEP-MAP initiatives on the establishment of SPAMIs

PROGRAMME OF WORK FOR THE INTERSESSIONAL PERIOD 2013-2014

Programme of work of the Scientific Advisory Committee

112. The Commission endorsed the programme of work proposed by SAC as follows:

Sub-Committee on Marine Environment and Ecosystems (SCMEE)

- Develop mid-term research programmes to identify conservation measures and to promote sustainable use of deep-sea habitats (seamounts, canyons and deep coral populations) and related fishing stocks;
- · Collect environmental and biological information on marine seamounts.





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THE WAY FORWARD – UNEP-MAP tools



19th COP meeting UNEP-MAP

Decision IG.21/4

Action Plans under the Specially Protected Areas and Biological Diversity Protocol including Monk Seal, Marine Turtles, Birds, Cartilaginous Fishes, and Dark Habitats

Requests the Contracting Parties to take the necessary measures for the implementation of the updated Work Programme and Implementation Timetables, the Regional Strategy for the conservation of Monk Seals in the Mediterranean and the Dark Habitats Action Plan and report on their implementation according to the cycle and format of the MAP reporting system;

Requests SPA/RAC to undertake the necessary actions to assist the Contracting Parties, at their request to fulfill their obligations pertaining to the implementation of the updated Work Programme and Implementation Timetables the Mediterranean Strategy for the conservation of Monk Seals and the Dark Habitats Action Plan by supporting and/or coordinating actions where necessary and to further apply the ecosystem approach, in collaboration with the relevant organisations.

Annex V

Action Plan for the conservation of habitats and species associated with seamounts, underwater caves and canyons, aphotic hard beds and chemo-synthetic phenomena in the Mediterranean Sea (Dark Habitats Action Plan)

UNEP/MAP Athens, 2013





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THE WAY FORWARD – UNEP-MAP tools

MEDITERRANEAN ACTION PLAN 18 th Ordinary Meeting of the Contracting Parties to the Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean and its Protocols Istanbul (Turkey), 3-6 December 2013	UNEP(DEPI)/MED IG 216 16 December 2013 Original: ENGLISH
18 th Ordinary Meeting of the Contracting Parties to the Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean and its Protocols	Orginal: ENGUSH
18 th Ordinary Meeting of the Contracting Parties to the Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean and its Protocols	r.,
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UNEP/MAP

Athens, 2013

19th COP meeting UNEP-MAP

Decision IG.21/5

Identification and Conservation of sites of particular ecological interest in the Mediterranean

Encourage all Parties to accelerate efforts in taking necessary measures to develop a coherent and well-managed network of coastal and marine protected areas in the Mediterranean while increasing the number of those areas in the SPAMI list;

Request the Secretariat with the assistance of SPA/RAC to cooperate with the CBD Secretariat in organizing during 2014 a regional workshop in the Mediterranean on EBSAs, in time for its report to be considered by the 18th meeting of the Subsidiary Body on Scientific, Technical and Technological Advice (June 2014) prior to the twelfth meeting of the CBD Conference of the Parties.

Decision IG.21/6

Amendments of the Annexes II and III to the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean

Antipathella subpinnata (Ellis & Solander, 1786) Antipathes dichotoma Pallas, 1766 Antipathes fragilis Gravier, 1918 Leiopathes glaberrima (Esper, 1792) Parantipathes larix (Esper, 1790) Callogorgia verticillata(Pallas, 1766) Cladocora caespitosa (Linnaeus, 1767) Cladocora debilis Milne Edwards & Haime, 1849 Ellisella paraplexauroides (Stiasny, 1936) Lophelia pertusa (Linnaeus, 1758) Madrepora oculata Linnaeus, 1758



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What do we have?







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What we need...





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