

UNEP/MAP Barcelona Convention policy advances on climate change and MPA related issues

MPA Engage capitalization event 18 June 2021

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MAP - Barcelona Convention: Overview

- Barcelona resolution on MAP adopted in 1975;
 The Convention adopted in 1976. Both amended in 1995
- 22 Contracting Parties including the EU
- The Convention is complemented by 7
 Protocols: Dumping, Prevention and Emergency,
 LBS, Hazardous Wastes, SPA/BD, Offshore,
 ICZM

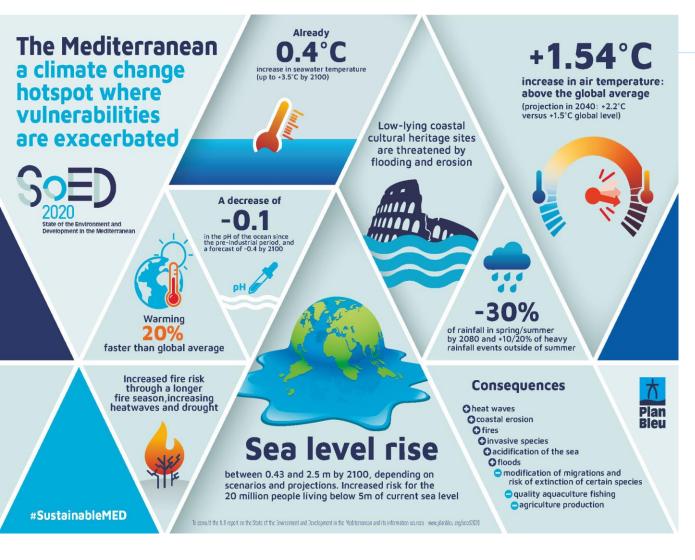


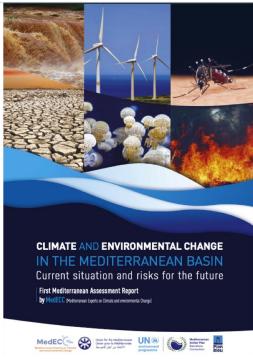
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- MSSD, other Strategies, Integrated Policies and Action Plans to combat and prevent pollution and protect/conserve marine and coastal biodiversity
- Ecosystem approach as the overarching principle → achieve/maintain Good Environmental Status of the Mediterranean Sea and Coasts
- MAP vision: "A healthy Mediterranean with marine and coastal ecosystems that are productive and biologically diverse for the benefit of present and future generations"







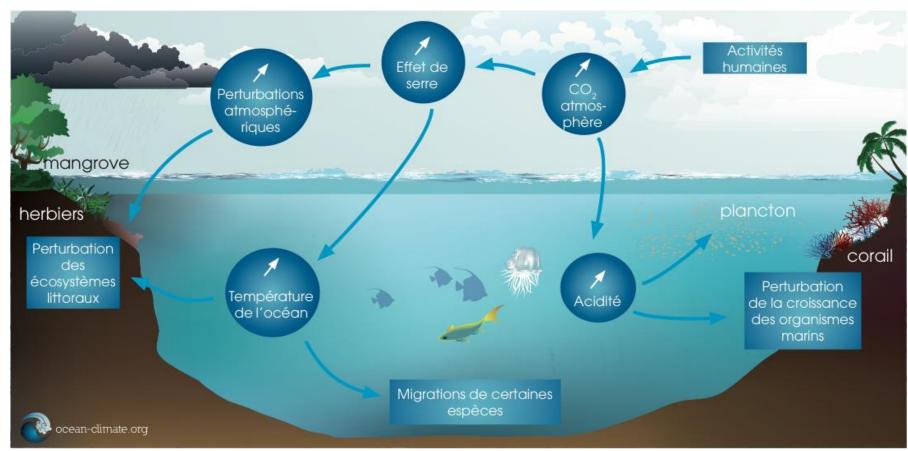


https://www.medecc.org/firstmediterranean-assessmentreport-mar1/





Climate Change impacts on marine biodiversity



Conséquences de l'augmentation du CO2 sur les écosystèmes marins





Key impacts on biodiversity

- Changes concerning the distribution of native species
- Species preferring warm waters extend their range to areas where they were absent or rare.
- Decrease in the abundance of some cold-water species in the northern parts of the Mediterranean (NW Med. And N Adriatic).
- Spread of NIS in the Mediterranean
- Large-scale mortality of macrobenthic communities
- Acidification impacts
- Reduced calcification rates, reduced growth and necrosis of some calcareous organisms.
- Sea level rise effects, i.e. threat to the habitats of endangered species (coastal lagoons, underwater caves, beaches, etc.).













Promotion of ecosystem resilience

 MPAs can promote resilience and faster recovery of ecosystems against climate change related disturbances.

The NW Mediterranean is experiencing abnormal regional warming.

In the MPA of the Medes Islands (NE of Spain), we observe:

- Absence of extreme temperatures even in summer.
- Mitigation of thermal variations during periods of long lasting anomalies.

In comparison with other sites in the NW Mediterranean, the area is less vulnerable to large-scale mortality phenomena of coralligenous communities.







MPAs acting as site "guards"

- Unlike unprotected sites under pressure from anthropogenic factors, MPAs can be used for monitoring the impacts of climate change in the long term.
 - → Better understanding of the reactions of the environment to CC stressors.

Miramare MPA (Adriatic, Italy)

Long-term monitoring data in the revealed:

- Regressions of some endemic algae species and the appearance of new ones.
- ➤ The sighting, for the first time in the region, of new species of warm-water fish.







MPAs acting as a carbon sequestration tool

 By sheltering blue carbon ecosystems (i.e. Posidonia meadows, salt marshes, Rhodolith beds: calcareous red algae, etc.), MPAs offer the means for significant carbon storage.

Example: Posidonia meadows trap and store large amounts of organic carbon (carbon sinks):



Storage rate for the Mediterranean: between 0.15 and 8.75 × 106 tC / year.



Historical deposit in matte from $2.5 \text{ to } 20.5 \times 10^9 \text{ tC.}$







Biodiversity conservation and SPA/SPAMI network

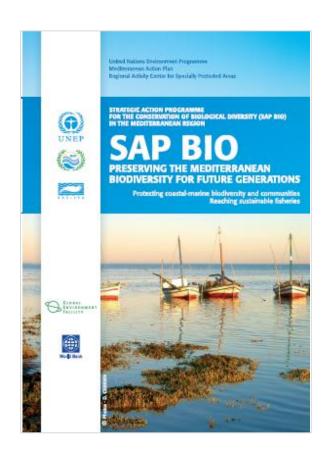
- 9 Action Plans + 1 Strategy for the conservation of endangered species and their habitats (monk seal, turtles, cetacean, birds, cartilaginous fish, vegetation, coralligenous, dark habitats, non-indigenous species)
- Roadmap for a Comprehensive Coherent Network of Well-Managed MPAs to Achieve Aichi Target 11 in the Mediterranean MPA (COP 19, Athens, 2016)
 - Strengthen networks of protected areas at national and Mediterranean levels, including in the high seas and ABNJ;
 - Improve Mediterranean MPA network through effective and equitable management;
 - Promote sharing of environmental and socio-economic benefits and integration into the ecosystem and marine spatial planning approaches;
 - Ensure the MPA network stability by enhancing their financial sustainability.
- Currently 1,126 MPAs in the Mediterranean Sea covering 209 303 km2 (8.3%), including only 0.06% of strictly protected areas;
- SPAMI List established in 2001 to promote cooperation in management and conservation of natural areas and protection of threatened species and habitats;
- 39 SPAMIs included in the SPAMI List; Regular assessment and SPAMI review.





The Strategic Action Programme for the Conservation of Biological Diversity (SAP BIO)

- The first SAPBIO was adopted in December 2003 for a 15-year period
- Played 2 important roles:
- ✓ A strategic framework for implementation of the SPA/BD Protocol at national and regional levels. It allowed harmonization and alignment of planning for biodiversity conservation in the Mediterranean.
- ✓ Facilitating exchanges among departments within and among countries on common objectives in biodiversity conservation.







Post-2020 SAPBIO

- The Barcelona Convention COP 21 (December 2019)
 requested to prepare in 2020-2021 the Post-2020
 SAPBIO, aligned with the Sustainable Development
 Goals, harmonised with the CBD Post-2020 Global
 Biodiversity Framework through the optic of the
 Mediterranean context.
- The Post-2020 SAPBIO should be:
- ✓ action-oriented
- made of activities tailored towards realistic objectives and reasonably achievable
- coordinated with relevant international organizations and supportable by donors and funding agencies.
- Target 3.3. under Objective 3 on Ecosystem Health dedicated to Climate Change mitigation and adaptation

Evaluation of the implementation of SAPBIO

Nov. 2018 - Jun. 2019

Identification of priorities and orientations (national + subregional processes)

Jan. 2020 - Feb. 2021

Elaboration of the Draft Post-2020 SAPBIO

Jan. 2021 - May 2021

Adoption of the Post-2020 SAPBIO by the Barcelona Convention COP22





The Post-2020 Regional Strategy for MPAs and OECMs in the Mediterranean

- The Post-2020 Regional Strategy for MPAs and OECMs in the Mediterranean should be:
- ✓ actionable and transformational
- ✓ in line with the Post-2020 Global Biodiversity Framework of the CBD, the Post-2020 SAPBIO, and other relevant global, regional and sub-regional processes and initiatives,
- elaborated in consultation with relevant global and regional organizations, national institutions, and Mediterranean countries' representatives (COP 21 Decision IG.24/6)
- Specific output dedicated to the recognition and accounting of the contribution of MPCAs and OECMs to sustainable development goals, the blue economy, climate change mitigation and adaptation, and the wider society

Elaboration of a draft Post-2020 Regional Strategy for MPA/OECMs

Consultation:
Online + Workshop,
involving CPs and
Partners)

Guidance of the Ad hoc Group of Experts for MPAs in the Med (AGEM) Review of the draft MPA/OECM Regional Strategy by the 15th meeting of SPA/BD Focal Points Adoption of the MPA/OECM Regional Strategy by the Barcelona Convention COP 22







Good Environmental Status of the Mediterranean

- 11 Ecological Objectives covering all the main aspects of the marine and coastal environment (COP 17, Decision IG. 20/4)
 - 1. Biodiversity
 - 2. Non-indigenous species
 - 3. Harvest of commercially exploited fish and shellfish
 - 4. Marine food webs
 - 5. Eutrophication
 - 6. Sea-floor integrity

- 7. Hydrography
- 8. Coastal ecosystems and landscapes
- 9. Pollution (contaminants)
- 10. Marine litter
- 11. Energy including underwater noise
- 28 Operational Objectives (COP 17, Decision IG. 20/4)
- 61 Indicators (COP 17, Decision IG. 20/4)
- 40 GES definitions (COP 18, Decision IG.21/3)
- 66 Targets (COP 18, Decision IG.21/3)
- Integrated Monitoring and Assessment Programme (IMAP): 23 Common Indicators and 4 Candidate Indicators (COP 19, Decision IG.22/7)





















IMAP implementation at national level and further development at regional level

☐ Implementation of national monitoring programmes (national IMAP) ☐ Mobilization of external resources to support IMAP implementation Delivery of quality-assured data for 23 Common Indicators of IMAP Progressing towards definition of assessment scales and criteria for IMAP CI Progressing towards consensus for integrated GES assessment methodologies ☐ Mobilizing science-policy interface and collaboration with scientific community Building a strong Information System for IMAP to collect and assess data, using SEIS principles ☐ Strengthening capacities of the Contracting Parties on IMAP implementation ☐ Very strong synergies with EU MSFD to benefit from the work already undertaken ☐ Full participation in the UN Decade on Ocean Science



Streamline Ecosystem Approach in MAP Barcelona Convention at programmatic, regulatory and policy level, with ultimate objective to achieve/contribute to GES

UNEP/MAP Medium-Term Strategy 2022-2027
Post-2020 Strategic Action Programme for the Conservation of Biodiversity and Sustainable Management of Natural Resources in the Mediterranean Region (Post-2020 SAPBIO)
Post-2021 Mediterranean Strategy for Prevention of and Response to Marine Pollution from Ships
Ballast Water Management Strategy for the Mediterranean Sea (2022-2027)
Legally binding Regional Measures under LBS Protocol Article 15: WWTP, management, sludge management, marine litter
Progress on the implementation of Roadmap for Proposal for the Possible Designation of the Mediterranean Sea, as SOx Emission Control Area
Pilot implementation in selected areas of measures to combat marine litter and sound management of obsolete chemicals



Thank you





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https://www.unenvironment.org/unepmap/