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Agenda Item 4: Any other business

Independent evaluation of the implementation of the EcAp Roadmap 2008-2021

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List of abbreviations and acronyms

ACCOBAMS	Agreement on the Conservation of Cetaceans of the Black Sea, Mediterranean Sea		
DC/DAC	and contiguous Atlantic area		
BC/BAC	Background (Assessment) Concentrations		
BV	Baseline values		
CBD	Convention on Biological Diversity		
CCI	Candidate Common Indicators (relatively to IMAP)		
CI	Common Indicator (relatively to IMAP)		
COP	Conference of the Parties		
COR ESA	Correspondence Group on Economic and Social Analysis		
CORMON	Correspondence Group on Monitoring		
CP	Contracting Party		
CRF	Common Regional Framework		
DD/DS	Data Dictionaries /Data Standards		
DPSIR	Drivers-Pressures-State-Impacts-Responses		
EcAp	Ecosystem Approach		
EcAp CG	Ecosystem Approach Coordination Group		
EAC	Environmental Assessment Criteria		
EC	European Commission		
EIA	Environmental Impact Assessment		
EO	Ecological Objective (used for IMAP)		
EU	European Union		
GEF	Global Environment Facility		
GES	Good Environmental Status		
GFCM	General Fisheries Commission for the Mediterranean		
ICZM	Integrated Coastal Zone Management (EU or UNEPMAP Protocol)		
IMAP	Integrated Monitoring and Assessment Programme		
INFO/RAC	Information and Communication Regional Activity Centre Land-Based Sources Protocol		
LBS Protocol			
MAP MED POL	Mediterranean Action Plan Mediterranean Pollution Assessment and Control and Control Programme		
MED I OL MED QSR	Mediterranean Quality Status Report		
MCPAs	Marine and Coastal Protected Areas		
MSFD	Marine Strategy Framework Directive		
MSP	Marine/Maritime Spatial Planning		
MSSD	Mediterranean Strategy for Sustainable Development		
MTS	Mid-Term strategy		
NAP	National Action Plan		
NIS	Non-indigenous species		
OECMs	Other Effective area—based Conservation Measures		
00	Operational Objectives (Relative to IMAP)		
OWG	Online Working Groups		
PAP/RAC	Priority Actions Programme Regional Activity Centre		
Post-2020 SAPBIO	Post-2020 Strategic Action Programme for the Conservation of Biodiversity and		
	Sustainable Management of Natural Resources in the Mediterranean Region (2021)		
PoW	Programme of Work		
REMPEC	Regional Marine Pollution Emergency Response Centre		
SAP	Strategic Action Plan		
SAPBIO	Strategic Action Programme for the Conservation of Biological Diversity in the		
	Mediterranean Region (2003)		
SEIS	Shared Environmental Information System		
SoED	State of the Environment and Development in the Mediterranean		
SoER	State of the Mediterranean marine and coastal Environment		
SPA/RAC	Specially Protected Areas Regional Activity Centre also RAC/SPA		
SPI	Science-Policy Interface		
TDA	Trans-boundary Diagnostic Analysis		
ToR	Terms of Reference		
	Threshold values		
	United Nations		
UNEP/MAP	United Nations Environment Programme/Mediterranean Action Plan		
WFD	Water Framework Directive (EU)		

Executive summary

1. Ecosystem Approach (EcAp) can be defined as the integrated management of land, water and living resources that provides sustainable delivery of ecosystem services in an equitable way. It goes beyond examining single issues, species, or ecosystem functions in isolation. Instead, it recognizes ecological systems for what they are: rich mixes of elements that interact with each other continuously. Human activities should also be considered as an integral part of the Mediterranean ecosystems, both affecting and depending on ecosystems.

2. By adopting Decisions IG. 17/6 (COP 15, 2008), IG. 20/4 (COP 17, 2012) and IG. 21/3 (COP 18, 2013), the Contracting Parties to the Barcelona Convention and its Protocols agreed to act for gradual implementation of the ecosystem approach at regional, sub-regional and national level with the objective of attaining and maintaining Good Environment Status (GES). Much progress has been accomplished since 2008 in integrating the ecosystem approach in policies and implementing the backbone of the Mediterranean ecosystem approach, the Integrated Monitoring and Assessment Programme (IMAP).

3. The EcAp roadmap (2008-2012) implementation was evaluated with regard to the objectives of each of the seven roadmap's steps, at regional level and, when appropriate, at sub-regional and national levels. **Table 1** at the end of the executive summary, outlines the evaluation of the status of implementation of the 7 EcAp Roadmap steps as defined in <u>Decision IG.17/6</u>, COP 15, 2008, and the main identified gaps and recommendations. The developed version can be found in **Table 2**.

4. The evaluation shows that **at regional level**, the EcAp Roadmap 2008-2021 has been implemented overall successfully. Definition of an ecological vision for the Mediterranean with strategic goals allowed the development of 11 corresponding Ecological Objectives. Associated Operational Objectives, Common Indicators and target levels were developed for 9 and are effective for 8 of the 11 Ecological Objectives (EOs). The CIs of EO 11 are currently being tested and those of EO 4 and 6 are currently being defined. Important ecosystem properties, and assessment of ecological status and pressures have been identified at regional and sub regional levels and communicated through numerous documents. Revision of existing monitoring programmes for ongoing assessment have been completed in line with the EcAp roadmap and the Integrated Monitoring and Assessment Programme (IMAP) requirements at regional and sub-regional levels, and targets are regularly updated. Relevant action plans and programmes have been reviewed in the same way, and new ones are in line with the Ecosystem Approach.

5. However, some EcAp roadmap steps have not yet been totally implemented **at national level**.

6. The identification of important ecosystem properties and assessment of ecological status and pressures is in progress at national level, though not yet completed. Knowledge acquisition on important ecosystems and habitats is essential at national scale to ensure a well-planned and implemented IMAP including for its coherence with Integrated Coastal Zone Management (ICZM) and Marine Spatial Planning (MSP). The application of Strategic Environmental Assessments (SEA) and Environmental Impact Assessment (EIA), which are significant tools to support the implementation of ICZM principals, calls for spatial assessment of important ecosystems and knowledge of their properties, ecological status and vulnerability on a national scale. UNEP/MAP Secretariat and components have collated available information and data transmitted by the Contracting Parties (CPs) to identify important properties and assess the ecological status and pressures at a degree of precision that is sufficient for a regional Mediterranean scale, but data quality remains in some cases insufficient for a finer, national scale.

7. Furthermore, IMAP is not sufficiently implemented at national level to allow an adequate corresponding reporting from the CPs. Progress is underway, but such an ambitious monitoring programme requires more efforts to bring national regulations, policies and monitoring programmes into compliance with IMAP. Training and capacity building have been well developed by UNEP/MAP to support the implementation of national IMAPs, and needs to be continued. This will also contribute to increase reporting of CPs with valid or compliant data. The current reporting rate in terms of number of CPs reporting, and number of CIs needs to be improved.

Main recommendations

8. The EcAp roadmap objectives could be updated taking into consideration mitigation of climate change impacts on Mediterranean ecosystems. Further, developing an ecosystem objective related to climate change impacts on ecosystems, could be considered by associating different existing or upcoming CIs and therefor creating a transversal EO.

9. At regional level, attention should be given to the fact that EO 4 (Marine food webs) and EO 6 (Sea-floor integrity) operational objectives, indicators and targets, which are currently on the way to be developed, be defined in relation to EO 1 (Biodiversity) and EO 3 (harvest of commercially exploited fish and shellfish). Also, 4 Candidate Common Indicators have updated Guidance Factsheets and monitoring protocols that could be agreed on in particular CCI 25 that has been tested in a pilot project.

10. With support of UNEP/MAP Secretariat and its components, it is recommended that additional efforts be invested by the CPs to identify important ecosystem properties and assess ecological status and pressures at a national scale.

11. In parallel, consistent efforts should be deployed to increase the reporting of CPs regarding IMAP. The following elements could contribute to increase CPs' reporting flow and data quality:

- Additional training workshops for quality-assured data and reporting.
- An evaluation to identify the needs and obstacles of CPs to better implement IMAP could perhaps orient towards a more effective support by UNEP/MAP to lift specific critical barriers to IMAP implementation.
- Centralising information online in a practical way (such as the access to the online MED QSR) by regrouping all the current operational objectives, targets for EOs and also data dictionaries and data standards, threshold values, assessment criteria, guidance factsheets and guidelines and monitoring Protocols for the indicators of all EOs (including EO 3) would be useful for the CPs. Also, underlining relations between IMAP CIs and National Action Plans requests, for example under LBS Protocol, would also probably be helpful for CPs to better implement and integrate IMAP and Protocols' requests.
- Availability of a centralized and streamlined reporting system able to accept data for all indicators is crucial. In consequence, IMAP Info System needs to be regularly updated. Moreover, tools allowing assessments at different scales and data visualisation through, for example, maps for spatial changes and diagrams for temporal evolution could be developed perhaps in cooperation with other regional entities and integrated into the Info System. Such diagrams are needed to communicate.

12. Assessing environmental status, attaining and maintaining GES will need more specific and effective measures especially along the Mediterranean coastal areas where Land Sea Interactions (LSI) are important. Marine Spatial Planning appears of particular interest, taking in account ICZM and LSI, it is a policy that should use IMAP indicators in an integrated way. Furthermore, ecosystem-based MSP is currently considered for the deep Mediterranean Sea¹. The interrelation between the costal population, land and marine ecosystems is particularly important for the Mediterranean.

13. Socio-economic aspects, blue and circular economy could also be further integrated in a renewed EcAp Roadmap policy.

¹ Manea, E., Bianchelli, S., Fanelli, E., Danovaro, R., & Gissi, E. (2020). Towards an Ecosystem-Based Marine Spatial Planning in the deep Mediterranean Sea. *Science of The Total Environment*, *715*, 136884. doi: 10.1016/j.scitotenv.2020.136884

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Table 1. Table summarising the evaluation of the status of implementation of each EcAp step (as defined in <u>Decision IG.17/6</u>, COP 15, 2008). Green colour: completed, orange: completed over 50%, dark pink: completed at less than 50%.

EcAp steps	Achievements	Implementation	Elements for discussion, gaps and recommendations
Step 1	Vision defined : A healthy Mediterranean with marine and coastal ecosystems that are productive and biologically diverse for the benefit of present and future generations.	Regional	Several points could be discussed such as integrating in the "vision" ecosystem resilience to climate change, the fact that this is the definition of GES at regional level, the concept of sustainability and eventually integrate a horizon in terms of time/date.
Step 2	 3 Strategic goals defined: a. To protect, allow recovery and, where practicable, restore the structure and function of marine and coastal ecosystems thus also protecting biodiversity, in order to achieve and maintain good ecological status and allow for their sustainable use. b. To reduce pollution in the marine and coastal environment so as to minimise impacts on and risks to human and/or ecosystem health and/or uses of the sea and the coasts. c. To prevent, reduce and manage the vulnerability of the sea and the coasts to risks induced by human activities and natural events. 	Regional	 Some elements for discussion: ✓ The goals could be more clearly formulated in particular goal (a). ✓ What is understood by "good ecological status" under goal (a) ? Ecological status refers to the WFD for Contracting Parties which are EU Member States and could be therefore unclear. This should be replaced in future strategic goals development by the term Good Environmental Status that has been used in EcAP and IMAP. ✓ Ecosystem recovery needs actions, therefore "allow recovery" in goal (a) could be replaced by "favour recovery" ✓ Climate change mitigation could be specifically mentioned in goal (c).

EcAp steps	Achievements	Implementation	Elements for discussion, gaps and recommendations	
steps	Identification of: -important ecosystem properties	Regional	 <u>Gaps:</u> ✓ Knowledge gaps still exist in terms of spatial distribution, biodiversity, ecosystems functioning. ✓ Mapping of species and even habitats is patchy and not centralized. 	
Step 3	-assessment of ecological status -assessment of pressures	Sub-regional	 There is a lack of taxonomic skills for some groups in some countries as well as interdisciplinary approaches. Datasets and information are dispersed and need to be centralised. Data homogeneity and accessibility needs to be improved. Mapping spatial distribution of pressures would help the assessment and understanding 	
		National	 ✓ Mapping spatial distribution of pressures would help the assessment and understanding of cumulative impacts effects on ecosystems. <u>Recommendations:</u> ✓ Mapping efforts should be made to obtain a vision at the Mediterranean scale of essential/vulnerable Mediterranean habitats/species/ecosystems and anthropogenic pressures. 	
Step 4	Agreement on the definition of 11 Ecological Objectives that correspond to the 3 strategic goals and the EcAp Roadmap vision. These have been defined taking into account the EU MSFD Descriptors.	Regional		

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	Agreement on 27 Operational		<u>Gaps:</u>
	Objectives with 23 Common		✓ Operational Objectives, GES definitions, Common Indicators and related targets
	Indicators and 4 Candidate		have not yet been defined for EO 4 and EO 6.
	Common Indicators		✓ EO 11 "energy including underwater noise", and its two candidate indicators, is
	corresponding to 9 Ecological		still at an initial phase of development.
	Objectives.		\checkmark EO 1 does not cover certain habitats that would need to be assessed such as pelagic
	The Common Indicators for EO		and deep-sea habitats.
	6 (seafloor integrity) is in the		\checkmark CI 3 to CI 5 concerns seabirds, mammals and reptiles. Selected fish and
	final stage of development.		cephalopods could be integrated.
	Work has started to develop EO		✓ Definitions of Operational Objectives, Common Indicators, assessment criteria,
	4 foodwebs.		related targets, fact sheets etc. for the IMAP Ecological Objectives are dispersed.
	11000.005.		No synthetic updated document or internet platform regrouping these elements was
			found.
			✓ Threshold values are still needed for many indicators.
			Recommendations
			\checkmark EO 6 "seafloor integrity" its indicators and targets etc. would need to be effective
S			and measurable rapidly. Seafloor is continuously impacted by anthropogenic
Step 5		Regional	activities which need to be assessed especially with the perspective of the
$\mathbf{\tilde{S}}$			
			development of offshore installations (e.g., ✓ wind farms).
			✓ It is recommended to consider developing common indicators between EO 1 and 6 for benthic habitats.
			 ✓ EO 4 "foodwebs" is a complex matter and scientific knowledge on ecosystem
			functioning and foodwebs is limited. Therefor the development of this EO 4 should
			take the time needed. It is an integrative subject that needs further knowledge to be
			efficiently developed. It is recommended not to consider the development of EO 4
			as a priority in the actual state of knowledge and allocate efforts to other priorities.
			\checkmark The development of marine traffic in the Mediterranean Sea calls for the effective
			assessment of anthropogenic underwater energy and noise. Therefore EO 11 CCIs
			should be rapidly developed towards common indicator and monitored.
			\checkmark The habitats assessed and monitored in EO 1 are limited and should be developed
			in particular for deep-sea and pelagic habitats.
			\checkmark Within EO 1 (Biodiversity), CI 3 to CI 5 are related to seabirds, mammals and
			reptiles. These CIs could be applied to selected species of fish and cephalopods as

EcAp	Achievements	Implementation	Elements for discussion, gaps and recommendations	
steps				
			 for the MSFD. Further cooperation with GFCM could help identify the most pertinent species. This would also lead to a further integration of EO 1 with EO 3. ✓ Threshold values should be defined for CIs missing TV in particular EO 1 benthic habitats, EO 3, EO 7, EO 8, EO 9 and upcoming EO 6. ✓ It is recommended to centralise all the informative documents related to EOs and Indicators (Operational Objectives, Common Indicators, assessment criteria, related targets, threshold values, fact sheets etc. for the IMAP Ecological Objectives and keep it updated so that policy makers, stakeholders and scientists may easily access this basic information. ✓ How can climate change concerns be assessed and monitored? This question needs to be developed with climate change specialists. 	
9	Monitoring programmes for ongoing assessment have been revised integrating the ecosystem approach and targets are regularly updated.	Regional	 Gaps ✓ Implementation of IMAP at national level is not yet complete. Efforts are still needed to revise or implement monitoring programmes in accordance with IMAP indicators. ✓ IMAP implementation at national level needs to be strengthened with more resource mobilization, capacity building, guidance and technical assistance. ✓ CP reporting on IMAP implementation needs to be strengthened. Recommendations 	
Step 6		Sub-regional	 Assessment of the difficulties encountered by the CPs in IMAP implementation and reporting could help being even more efficient in supporting the CPs. Cooperation and sharing best practices to address specific gaps could be developed. Efforts should be continued to integrate IMAP in ICZMs, MSP and LBS. Submission and management of data stemming from CIs needs to be facilitated and spatialized. IMAP Info System should continue being maintained and upgraded also with the integration of assessment tools. Sufficient means should be allocated to this 	

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EcAp	Achievements	Implementation	Elements for discussion, gaps and recommendations
steps		National	 work, and permanent funds are needed to ensure maintenance and development once the system is functional. ✓ SPI could be more integrated and strengthened in programmes to enrich decision-making, and communication towards the society could be increased. ✓ Sharing experience from demonstration projects and approaches that have been successful or of interest (e.g., the grid/table and scoreboard methods, work on MSP in the North Adriatic region) could help implement harmonised monitoring and assessment programmes at national scale.
	Action plans and programmes have been developed and reviewed integrating the	Regional	 <u>Recommendations</u> ✓ Development and updating of National Action Plans (i.e. on pollution from land-based-sources, on species and habitat conservation, etc.) should continue and
7	ecosystem approach.	Sub-regional	reinforced with support from the Secretariat and relevant Components. Some RAPs seem little transposed to national scale and should be enhanced. Work at sub-regional scale should be further considered, as for example has been the case for subregional oil contingency plans.
Step 7		National	 It is recommended to develop/strengthen exchanges and increase cooperation between UNEP/MAP and other partners, especially GFCM. Although cooperation between SAPBIO and GFCM is strong concerning bycatch of vulnerable species, more attention could be given to developing cooperative projects concerning e.g., fisheries and NIS. Interrelations could be reinforced between these Regional Action Plans to increase an ecosystem and integrated approach.

Evaluation of the implementation of the EcAp Roadmap 2008-2021 step by step

14. Table 2 presents the evaluation of the implementation of the UNEP/MAP EcAp Roadmap (2008-2021) with evidence-based achievements and gaps, as well as first recommendations the evaluated status of implementation for each of the seven EcAp Roadmap steps. Colour codes indicate the status of implementation: completed, majority completed (>50%), partially completed (<50%). The evaluation has been carried out at a regional, as well as sub-regional and national level when possible. It is in agreement with the Midterm review (UNEP(DEPI)/MED WG.444/4), the concept note on evaluating implementation and renewing UNEP/MAP's Ecosystem Approach (UNEP/MED WG.521/3). The evaluation is based on the documents listed in Annex I, Table A.

Table 2 Evaluation of the seven EcAp Roadmap steps as of October 2022 including achievements, gaps and first recommendations.

I. Definition of an ecological vision for the	D : 1
Mediterranean	Regional

Achievements

15. The ecological vision for the Mediterranean was defined and endorsed by the CPs in the very first UNEP/MAP decision concerning the implementation of the ecosystem approach.

16. During COP 15 the <u>Decision IG.17/6 (COP 15)</u> endorsed by the CPs in 2008, the vision is defined as "A healthy Mediterranean with marine and coastal ecosystems that are productive and biologically diverse for the benefit of present and future generations".

17. The definition of the ecological vision is recalled in the <u>Decision IG. 20/4 (COP 17, 2012)</u>

18. Following the Decision IG.17/6, the COP decisions relative to action plans, regional plans, frameworks, strategies, programmes, protocols, guidelines as well as projects in relation with conservation and management of the Mediterranean Sea involving UNEP/MAP or one of its components, are in line with this vision. See Table 2.

Gaps

19. The actual vision does not refer to climate change issues as the new MTS (2022-2027) does (see table 2)

20. The sustainability aspect is discreet

21. A time span could be integrated in the EcAp Roadmap vision as in Post-2020 SAPBIO "*By* 2050, marine and coastal biodiversity is valued,"

Remarks

22. Document <u>UNEP/MED IG.24/22</u> (2019 Report on the State of the environment and development in the Mediterranean. Key messages) underlines p. 210 that to reach such a vision, transformative changes need to be done in current trajectories.

23. It is considered that the evaluation of Step 1 is only relevant at the regional level.

Recommendations

24. This vision is still applicable but could be revised taking into consideration climate change context and sustainable development as in the MTS 2022-2027.

25. Today, one of the greatest challenges of the Mediterranean populations and ecosystems is facing rapid and impacting climate change processes induced by past and actual human activities. The Mediterranean is one of the regions where climate change is the most acute. The CPs during COP 19 endorsed as a contribution to the Mid-Terms Strategy, the *Regional Climate Change Adaptation*

Framework for the Mediterranean Marine and Coastal Areas, recognising by this decision the impacts of Climate Change in the Mediterranean area (Decision IG. 22/6). Increasing the chances for ecosystems to deal with climate change could be better underlined in the "vision for the Mediterranean" definition.

26. Sustainability is evoked in the definition by "...for the benefit of present and future generations". However, this does not recognise the fact that present benefits may compromise or reduce future benefits. Future benefits should be comparable to the actual.

27. Other strategies and action plans focusing on the Mediterranean Sea and region have defined their "vision of the Mediterranean" (see Table 3 hereafter). In the process of reviewing the EcAp Roadmap "vison", these could be kept in mind.

28. The integration of a horizon in terms of time/date could be discussed.

29. If the ecological vision for the Mediterranean corresponds to the definition of GES at regional level, then it could be of interest to clearly present it as such.

Table 3. Definitions of	" "visions" in different N	Mediterranean strategies and	action plans.
			T T T T T

Strategies/Action Plans	Vision	Difference with EcAp Roadmap vision
EcAp Roadmap 2008- 2021	"A healthy Mediterranean with marine and coastal ecosystems that are productive and biologically diverse for the benefit of present and future generations" (p. 179, <u>Decision IG.17/6</u> , COP 15, 2008)	
MTS 2016-2021	"A healthy Mediterranean with marine and coastal ecosystems that are productive and biologically diverse <u>contributing to sustainable development</u> for the benefit of present and future generations" (p. 114, <u>Decision</u> IG.22/1, COP 19, 2016)	Adds the notion of sustainability
MTS 2022-2027	"Progress towards a healthy, clean, sustainable and climate resilient Mediterranean Sea and Coast with productive and biologically diverse marine and coastal ecosystems, where the 2030 Agenda for sustainable development and its SDGs are achieved through the effective implementation of the Barcelona Convention, its Protocols and the Mediterranean Strategy for Sustainable Development for the benefit of people and nature." (p. 126, Decision IG. 25/01, COP 22, 2021)	It takes into consideration previous MTS vision, EcAp vision, 2016-2025 MSSD vision and SCP (Sustainable Consumption and Production) Regina Plan vision. It also reflects UNEP 2050, CBD Post-2020 Global Biodiversity Framework and European Green Deal vision. The concept of " climate resilient " is added and the marine and coastal ecosystems are underlined compared to the previous MTS vision.
2016-2025 MSSD	"A prosperous and peaceful Mediterranean Region, in which people enjoy a high quality of life and where sustainable development takes place within the carrying capacity of healthy ecosystems. This is achieved through common objectives, cooperation, solidarity, equity and participatory governance." (p. 142, <u>Decision IG.22/2</u> , COP 19, 2016)	This vision is comparable to EcAp Roadmap vision but more centred on a societal point of view. It also adds a sustainable development concept that underlines the link between human activities and ecosystems' health.
Regional Action Plan on Sustainable Consumption and Production in the Mediterranean (SCR Regional Plan)	"By 2027 a prosperous Mediterranean region is established, with non-pollutant, circular, socially inclusive economies based on sustainable consumption and production patterns, preserving natural resources and energy, ensuring the well-being of societies and contributing to clean environment and healthy ecosystems that provide goods and services for present and future generations." (p. 346, Decision IG.22/5, COP 19, 2016)	It is a larger vision more oriented towards consumption and the use of natural resources.
Common Regional Framework (CRF) for Integrated Coastal Zone Management (ICZM)(From IG.24/5 (2019))	Contribute to the vision for the Mediterranean Sea and coast as: "A healthy Mediterranean with marine and coastal ecosystems that are productive and biologically diverse, contributing to sustainable development for the benefit of present and future generations". (p. 266, Decision IG.24/5, COP 21, 2019)	This is the vision of UNEP/MAP Mid-Term Strategy 2016-2021 which is out of date. UNEP/MAP MTS has now adopted a new vision for 2022- 2027 (see above).
Post-2020 SAPBIO	"By 2050, marine and coastal biodiversity is valued, conserved, restored and wisely used, maintaining ecosystem services, sustaining a healthy Mediterranean Sea and coast, and delivering benefits essential for nature and people" (p372, Decision IG. 25/11, COP 22, 2021)	Ecosystem services and health of the ecosystems are considered.

	Mediterranean Strategy for the Prevention of, Preparedness, and Response to Marine Pollution from Ships (2022-2031)	"A clean and healthy Mediterranean marine and a environment with a sustainable and pollution free maritime sector, supported by a rigorous enforcen system and strengthened multi-sectoral cooperation the benefit of present and future generations" (p. 7 Decision IG. 25/16, COP 22, 2021)	cooperation to free the Mediterranean from pollution.
II	Setting of common	Mediterranean strategic goals	Regional

Achievements

30. The strategic goals have been defined and endorsed by the CPs in the very first UNEP/MAP decision concerning the implementation of the ecosystem approach.

- 31. Strategic goals have been defined in <u>Decision IG.17/6 (COP 15, 2008)</u> and are the following:
 - a. To protect, allow recovery and, where practicable, restore the structure and function of marine and coastal ecosystems thus also protecting biodiversity, in order to achieve and maintain good ecological status and allow for their sustainable use.
 - b. To reduce pollution in the marine and coastal environment so as to minimise impacts on and risks to human and/or ecosystem health and/or uses of the sea and the coasts.
 - c. To prevent, reduce and manage the vulnerability of the sea and the coasts to risks induced by human activities and natural events.

32. EcAp strategic goals have been taken in consideration in new or updated protocols, action plans and frameworks adopted during COPs 15 to 22 (see Annex I, Table A). Some of the most prominent are :

- ✓ The Integrated Coastal Zone Management (ICZM) Protocol Decision IG.18/04 adopted in 2008 takes in consideration the ecosystem approach goals in particular through the articles 8, 9 and 13. The associated ICZM Action Plan (2012-2019) (Decision IG.20/2), the Conceptual Framework for Marine Spatial Planning (Decision IG.23/7), as well as the Common Regional Framework (CRF) for Integrated Coastal Zone Management (Decision IG.24/5) are synergetic with the EcAp Roadmap and have developed actions which contribute to attain the EcAp Roadmap goals.
- ✓ In the framework of Article 15 of the LBS Protocol, the Regional Plan on Marine Litter Management in the Mediterranean (Decision IG.21/7) was adopted in 2013. It significantly contributes to attain strategic goal (b). The adoption of IG.21/7 by the CPs in 2013 made the Mediterranean the first regional sea committed to legally binding measures, programmes, and related implementation timetables on marine litter management at regional and national levels.
- ✓ In the framework of Article 15 of the LBS Protocol, the Regional plans on Urban Wastewater Treatment and Sewage Sludge Management and on Marine Litter Management in the Mediterranean (Decision IG.25/8 and Decision IG.25/9) were adopted in 2021 during COP 22. These Regional Plans are designed to contribute to the reduction of pollution in the marine and costal environment (strategic goal b)
- ✓ The Strategic Action Programme Post-2020 SAPBIO Decision IG.25/11_defines goals to 2030 that encompass the EcAp Roadmap strategic goals especially strategic goal (a).
- ✓ Core themes and programmes included in the <u>MTS (2016-2021) (Decision IG.22/1)</u> and <u>MTS (2022-2027) (Decision IG.25/1)</u> contribute to approach EcAp strategic goals.

<u>Gaps</u>

33. GES is not mentioned in the strategic goals

34. Mitigation of climate change impacts is not mentioned in the strategic goals

Remarks

35. It is considered that the evaluation of Step 2 is only relevant at regional level.

Recommendations

36. The strategic goals are still applicable. However, some suggestions can be proposed to update these goals.

37. <u>Proposed elements for revision of the strategic goals:</u>

- For the EU countries, "ecological status" refers to the Water Framework Directive with a determined 5 category classification of water bodies based on specific elements to be measured. It may therefore be of interest to replace "ecological status" by "good environmental status" (in coherence with GES) or "ecological functions and services in good state".
- The strategic goals could be expressed in a clearer and more direct way and the objective of attaining and maintaining GES could be more clearly formulated.
- Climate change mitigation could be present in the objectives.
- The term "allow recovery" could be replaced by "enhance environmental conditions allowing natural recovery" to include passive or active ecosystem restoration actions.

III. Identification of important ecosystem properties and	Regional
assessment of ecological status and pressures	Sub-regional
	National

Achievements

38. In Decision IG. 20/4, this step was further defined as "*undertaking an initial assessment to determine priority issues, information availability as well as gaps that need to be filled*". At regional and sub-regional level this step has been achieved and regularly updated by documents prepared by the Secretariat and UNEP/MAPs components with the support of EcAp Coordination Group, CORMONs and thematic Focal Points and the contribution of the Contracting Parties and other contributors. The following documents have contributed to complete this third step of the EcAp Roadmap:

- Although it was not directly prepared to answer EcAp requests, <u>*The Mediterranean Sea</u></u><u><i>Biodiversity: state of the ecosystems, pressures, impacts and future priorities (2010)*² prepared by UNEP/MAP-SPA/RAC presents in a clear way the status of important ecosystems and the main pressures and impacts at the Mediterranean level.</u></u>
- The UNEP/MAP-RAC/SPA document *Fisheries conservation and vulnerable ecosystems in the* <u>Mediterranean open seas, including the deep seas (2010)</u>³ presents vulnerable ecosystems and habitats in relation with fishing impacts on sensitive deep-sea habitats and essential fish habitats.
- The UNEP/MAP Regional Activity Center Plan Bleu published, in 2010, a first attempt to assess benefits rendered by marine ecosystems in the Mediterranean in economic terms, *The economic*

² UNEP-MAP RAC/SPA (2010). The Mediterranean Sea Biodiversity: state of the ecosystems, pressures, impacts and future priorities. By Bazairi, H., Ben Haj, S., Boero, F., Cebrian, D., De Juan, S., Limam, A., Lleonart, J., Torchia, G., and Rais, C., Ed. RAC/SPA, Tunis; 100 pages.

³ UNEP-MAP RAC/SPA (2010). Fisheries conservation and vulnerable ecosystems in the Mediterranean open seas, including the deep seas. By de Juan, S. and Lleonart, J. Ed. RAC/SPA, Tunis: 103 pages.

value of sustainable benefits rendered by the Mediterranean marine ecosystems⁴. This initial evaluation revealed the need for further studies as a result of gaps observed in relevant data for the basin as a whole, but also in terms of backup from additional studies, which would allow the micro-economic processes to be better reflected.

Specifically prepared to answer step 3 of the EcAp Roadmap, *The Initial Integrated Assessment* • of the Mediterranean Sea and Coastal Areas was finalized in 2011. The summery for decision makers was endorsed by COP 17 with Decision IG, 20/4. This document collates available knowledge and information on the nature of major ecosystems in the Mediterranean, as well as drivers and pressures that affect the state of the marine environment and ecosystems at regional and sub-regional level. The goal was to define the major basin-wide priority issues to be addressed by the EcAp Roadmap and determine where gaps existed so as to provide an adequate foundation for effective and efficient ecosystem-based management going forward.

39. In these first documents, a certain number of gaps had been identified and UNEP/MAP worked to fill-in key knowledge gaps that had been identified concerning the lack of knowledge on marine and coastal biodiversity in the following documents:

- UNEP/MAP prepared The State of the Mediterranean Marine and Coastal Environment 2012⁵ • (SoER MED 2012) that was published in 2012. Part 2 covers human pressure, state and impacts on Mediterranean ecosystems and is presented through 11 chapters corresponding to the 11 Ecological Objectives completed by a chapter on cumulative and concurrent impacts. Its last part presents synthetic tables of regional regulatory framework. Analysis is carried out at the regional level and multiple maps illustrate comprehensively the geographic variability.
- Plan Bleu published in 2014 Scoping study for the assessment of the costs of degradation of the • Mediterranean marine ecosystems⁶, with the objective of identifying possible options for assessing the costs of degradation of marine and coastal ecosystems in the Mediterranean Sea, that could be implemented in the context of the EcAp process at a regional level. The work for this report also led to the development of the following report published by plan Bleu the same year.
- Economic and social analysis of the coastal and marine waters in the Mediterranean, • characterization and impacts of the Fisheries, Aquaculture, Tourism and recreational activities, Maritime transport and Offshore extraction of oil and gas sectors⁷ was published by Plan Bleu in 2014 as part of the initial economic and social analysis of the EcAp Roadmap at a regional and sub-regional level.
- The UNEP/MAP document Marine Litter assessment in the Mediterranean (2015)⁸ published in • the framework of the EcAp MED project (2012-2015) contributes to the identification and description of marine litter, an important pressure on the ecosystems of the Mediterranean Sea. The sources of marine litter, marine litter distribution, the typology, the impacts on ecosystems as well as the baseline knowledge and monitoring programmes are detailed for the Mediterranean Sea at regional, sub-regional and when possible at national level.
- Based on integrated efforts of the Contracting Parties, Secretariat, MAP components and

⁴ Mangos, A., Bassino, J-P., Sauzade, D. (2010). The economic value of sustainable benefits rendered by the Mediterranean marine ecosystems. Plan Bleu, Valbonne. (Blue Plan Papers 8)

⁵ UNEP/MAP- Barcelona Convention (2012). State of the Mediterranean Marine and Coastal Environment, UNEP/MAP. Athens.

⁶ Plan Bleu, ACTeon (2014). Scoping study for the assessment of the costs of degradation of the Mediterranean marine ecosystems, Technical Report, Plan Bleu, Valbonne.

⁷ Plan Bleu (2014). Economic and social analysis of the coastal and marine waters in the Mediterranean, characterization and impacts of the Fisheries, Aquaculture, Tourism and recreational activities, Maritime transport and Offshore extraction of oil and gas sectors, Technical Report, Plan Bleu, Valbone

⁸ UNEP/MAP (2015). Marine Litter Assessment in the Mediterranean, Athens

Partners, the UNEP/MAP system delivered the first *Quality status Report for the Mediterranean in 2017*, the 2017 Med QSR was endorsed by Decision IG .23/6 (COP 20). The review process involved relevant MAP component Focal Points, the CORMON experts, the Ecosystem Approach Coordination Group and partners such as GFCM and ACCOBAMS. It is presented also as an online interactive report. The report is based on the Ecological Objectives that have been defined and the IMAP Common Indicators building on existing data and contributions from CPs, organized in three clusters (i) Pollution and Litter, (ii) Biodiversity and Fisheries, (iii) Coast and Hydrography. Cross-cutting issues constitute the last part of the report and national case studies are presented in the Annex I. Decision IG. 23/6 pointed out several gaps and recommendations to successfully deliver the following 2023 MED QSR.

- UNEP/MAP and Plan Bleu published in 2020 the State of the Environment and Development • in the Mediterranean⁹, SoED 2020. UNEP/MAP components and more than 150 contributors made possible this publication. Two documents supplement the report The Summary for Decision Makers and The Key Messages. The first provides a comprehensive overview intended for a large audience. The second compiles evidence from the various chapters most closely connected to marine and coastal environmental issues. They highlight interactions and combined impacts according to the Drivers-Pressures-State-Impacts-Responses analytical framework (DPSIR). The Key Messages expand on the larger significance of the findings, conveying policyrelevant suggestions in the context of the UNEP/MAP - Barcelona Convention system, and identifying priority areas for further policy-oriented research. The Key Messages and Summery for Decision Makers were endorsed by the CPs during COP 21 in 2019 (Decision IG.24/4). By covering terrestrial coastal, marine and fresh water status of the Mediterranean area, the SoED, 2020, represents an excellent Ecosystem Approach product. It is one of the most integrative documents for the Mediterranean Region that develops at the regional scale socioeconomic drivers and trends, climate change impacts, biodiversity and ecosystem services, economic activities and linked pressures, coastal zone dynamics and related impacts, food and water security, health and environment and governance at regional level.
- The document prepared by REMPEC, <u>Study on trends and outlook of marine pollution from ships</u> <u>and activities and of maritime traffic and offshore activities in the Mediterranean¹⁰ (2021)</u> compiles knowledge on maritime traffic and offshore oil and gas activities and their impacts on the marine environment, focusing on five main aspects: pollution from oil and chemicals, marine litter, air pollution, non-indigenous species (NIS) and underwater noise.
- In line with the 6 year ecosystem approach cycle and the IMAP implementation timeline, the Mediterranean 2023 Quality Status Report is in preparation by UNEP/MAP Secretariat and components in collaboration with the Contracting Parties. Following Decision IG.23/6 of COP 20 and the recommendations of the Regional Meeting on IMAP Best practices, Gaps and Common Challenges (10-12 July 2018, see document UNEP/MED WG.450/3), the Secretariat prepared the 2023 MED QSR Roadmap and Needs Assessment which after being reviewed by the EcAp CG was endorsed by Decision IG. 24/4 (COP 21, 2019). The Roadmap outputs were integrated into the Programme of Work for 2020-2021 and proposed Programme of Work for 2022-2023 as well as in the new UNEP/MAP MTS 2022-2027. As requested in Decision IG. 24/4, supported by the PoW (2020-2021), PoW (2021-2023) and externally funded projects (EU-funded EcAp MED III, IMAP-MPA, Marine Litter Med II and GEF Adriatic Projects), operational objectives and activities per each MED OSR Roadmap milestone were defined in document UNEP/MED WG.514/Inf.7, (8th EcAp CG meeting, September 2021). A call for mandatory data submission into the IMAP Info system has been launched in June 2020, renewed in October 2021 and again in September 2022, requesting Contracting Parties to systematically report all 2020 monitoring data, as well as data collected prior to 2020, which will be both used for the purposes of the 2023 MED QSR assessment. In document UNEP/MED WG.514/5 the

⁹ UNEP/MAP and Plan Bleu (2020). State of the Environment and Development in the Mediterranean. Nairobi ¹⁰ Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (2021). Study on trends and outlook of marine pollution from ships and activities and of maritime traffic and offshore activities in the Mediterranean, Floriana

methodology, outline, structure and contents of the 2023 MED QSR have been defined. The 9th meeting of the EcAp CG (5th of July 2022) approved the document <u>UNEP/MED WG.521/Inf.5</u> presenting the draft table of contents of the socio-economic and assessment chapters of the 2023 MED QSR as well as the document <u>UNEP/MED WG.521/Inf.6</u> presenting the Ecological Objective-Common indicator structure and outline template. A scaled grid pressure/impact approach with the GES assessment results is planned by sub-region and by country for each CI. An outline of contents for the socio-economic chapter is proposed that has been developed in terms of the anticipated outcomes of the trans-boundary diagnostic analysis (TDA). This work is taking place in the framework of the Global Environment Facility (GEF) funded Mediterranean Sea Programme (MedProgramme). It will provide an update to the 2005 TDA baseline regarding transboundary issues that affect the state of countries' marine and coastal environments, analysing causes and impacts of identified/ prioritised issues, to recommend areas where adequate responses are needed to ensure attainment of good environmental status (GES).

40. Specific collaborative projects have contributed to better identify important ecosystem properties, status and identify pressures at regional, sub-regional and national scales to fill in thematic or geographic. These are:

- Deep Sea Lebanon Project (2016-2018)
- <u>EcAp-MED I (2012-2015)</u> Implementation of the Ecosystem Approach (EcAp) in the Mediterranean by the Contracting parties in the context of the Barcelona Convention for the Protection of the Marine Environment and the Coastal region of the Mediterranean and its Protocols.
- <u>EcAp MED II (2015-2019)</u>. Mediterranean implementation of the Ecosystem Approach, in coherence with the EU MSFD. Beneficiaries were Southern Mediterranean Contracting Parties to the BC. One of the outcomes was to strengthen capacities in the Southern Mediterranean for IMAP implementation.
- EcAp MED III (2020-2023). Its overall aim is to further assist the Southern Mediterranean Contracting Parties to implement the Integrated Monitoring and Assessment Programme (IMAP), adopted in 2016, as part of the implementation of the Ecosystem Approach Roadmap. One of the objectives is to support harmonized assessment of the status of the sea and coast at national level.
- <u>IMAP-MPA (2019-2023)</u>. The overall objective is to further assist the Southern Mediterranean countries by contributing towards the achievement of the Good Environmental Status (GES) in the Mediterranean Sea and coast through the consolidation of the Ecosystem Approach (EcAp) process for MPAs management and sustainable development. This will be achieved through the monitoring and assessment of the IMAP common indicators, in MPAs and high-pressure areas, in a comparative and integrated manner.
- <u>MedKeyHabitats (2013-2016)</u>. One of the objectives aims at establishing cartographic inventories of key marine habitats in 8 Mediterranean riparian countries (Albania, Algeria, Croatia, Egypt, Libya, Morocco, Montenegro and Tunisia). <u>Brochure</u>.
- <u>MedKeyHabitats II Project (2017-2019)</u>. One of the objectives aims to establish a mapping inventory of marine key habitats on six pilot sites in Mediterranean countries and to assess their sensitivity to fishing activities in Algeria, Cyprus, Malta, Tunisia, Türkiye and Morocco.
- The <u>GEF MedProgramme (2020-2024)</u> in particular child project CP 1.1 (GEF ID 9684) with its second component focused on updating the Transboundary Diagnostic Analysis (TDA) for the Mediterranean Sea in the countries participating (Albania, Algeria, Bosnia and Herzegovina, Egypt, Lebanon, Libya, Montenegro, Morocco, Tunisia and Türkiye).

At sub-regional level

41. Four reports on the "Identification of important ecosystem properties and assessment of ecological status and pressures to the Mediterranean marine and coastal biodiversity" for each subregion, namely, the <u>Adriatic Sea</u>, the <u>Ionian Sea and Central Mediterranean</u>, the <u>Aegean Sea-Levant</u> <u>Sea</u> and <u>Western Mediterranean</u> were presented at the 10th meeting of the Focal Points for SPAs in Marseille, France, in 2011 (UNEP(DEPI)/MED WG 359/Inf.10; Inf.11; Inf.12; Inf.13). These reports summarize the knowledge transmitted by the national focal points and experts concerning their country.

Gaps

42. The Mediterranean Sea is one of the most studied seas in the world (UNEP-MAP RAC/SPA, 2010)¹¹, with multiple valuable ecosystems, but also one of the seas under highest pressure (IOC-UNESCO and UNEP, 2016)¹². Seagrass meadows, coralligenous assemblages and dark ecosystems are representative of Mediterranean marine ecosystems and are recognized as such by UNEP/MAP throughout the development of specific Action Plans. Nevertheless, *there is still a strong need to map and inventory habitats, particularly coralligenous, seagrasses, and dark ecosystem to ascertain their status* (see Post-2020 SAPBIO and p 381, UNEP/MED IG.25/27, 2021).

43. <u>The Mediterranean Sea Biodiversity: state of the ecosystems, pressures, impacts and future</u> priorities (UNEP-MAP, RAC/SPA, 2010) identified gaps and needs that still are pertinent today:

- ✓ Lack of national systematic inventories of marine and coastal biodiversity
- ✓ Many ecosystems remain little studied and knowledge is uneven for taxa and regions
- ✓ Lack of national taxonomic skills for many groups in certain countries
- ✓ Little sharing of knowledge
- ✓ Limited knowledge about levels of biological organization, work at ecosystem levels is rare and trophic interactions and energy flows in ecosystems is little explored limiting knowledge on ecosystem functioning
- ✓ Patchy mapping of marine and coastal species and biogenesis
- ✓ Research is compartmentalized lacking interdisciplinary collaboration
- ✓ Absence of coordinated and cross-border scientific research

44. Important gaps had been identified in MED QSR 2017 concerning identification of important ecosystem properties and assessment of ecological status and pressures. These gaps pointed out the way forward for MED QSR 2023 are still relevant:

- ✓ Improve data accessibility with the view to improve knowledge on the Mediterranean marine environment.
- ✓ Improve knowledge on distributional range, extent and condition of habitats, as well as on the pressures affecting them, their spatial distribution and potential cumulative effects, leading to structured data-led assessments of environmental status of the Mediterranean's marine habitats.
- \checkmark Define the reference state of habitats and species as well as a target threshold value to

¹¹ UNEP-MAP RAC/SPA (2010). The Mediterranean Sea Biodiversity: state of the ecosystems, pressures, impacts and future priorities. By Bazairi, H., Ben Haj, S., Boero, F., Cebrian, D., De Juan, S., Limam, A., Lleonart, J., Torchia, G., and Rais, C., Ed. RAC/SPA, Tunis; 100 pages.

¹² IOC-UNESCO, & UNEP (2016). Large Marine Ecosystems: Status and Trends, Summary for Policy Makers. (No. Volume 4). United Nations Environment Programme (UNEP), Nairobi. Retrieved from United Nations Environment Programme (UNEP), Nairobi website: http://onesharedocean.org/public_store/publications/Imes-spm.pdf

achieve at the national and sub-regional levels.

- ✓ Improve information on distribution, population abundance and demographic characteristics of key species (marine birds, mammals, reptiles, fish and cephalopods) and on the condition of their habitats, as well as on the pressures affecting them, leading to structured data-led assessments of environmental status of the Mediterranean's marine species.
- ✓ Work to further improve the develop assessment criteria, when feasible, for those habitats and species based on adequate data availability.
- ✓ Enhance human and technical capacities for monitoring and assessment of the coast and hydrography.
- ✓ Develop region-wide harmonized criteria for reference condition and threshold/boundaries values for key nutrients in water column, taking account of available standards for coastal waters.
- ✓ Continue the work on underwater noise and its impact on marine fauna, in close collaboration with the relevant bodies, especially ACCOBAMS
- ✓ Sea-based sources of litter should be further analysed and specified, given the fact that Mediterranean is a global hotspot for maritime transport and sea-based tourism such as cruises.

45. SoER MED 2012 and SoED 2020 underline the progress that has been accomplished regarding important ecosystem properties, assessment of ecological status and pressures. Nevertheless, important gaps still remain that represent real challenges for an in-depth implementation of the Ecosystem Approach in the Mediterranean Sea, especially at national level. In relation with step 3 of the EcAp Roadmap on the *identification of important ecosystem properties and assessment of ecological status and pressures*, difficulties and gaps that have been underlined are the following:

- ✓ Datasets are still dispersed, not consistent enough and with varying levels of reliability
- ✓ The information generated is often insufficiently or ineffectively transmitted to public or private decision-makers
- ✓ The information needs to be more organised effectively to feed into commonly agreed observatories, as well as monitoring and surveillance frameworks at the regional and national level
- ✓ The marine and coastal biodiversity and ecosystem functioning still need knowledge acquisition especially for offshore pelagic and deep-sea ecosystems
- ✓ There are also gaps in understanding of the impacts of human activity on marine and coastal biodiversity. The gaps exist at several levels: scientific knowledge, availability of legal tools, and enforcement of existing laws, public awareness, concrete action and operative plan implementation.
- ✓ Mapping available data is an important step in assessing the state of the environment. Currently, such mapping is inadequate in the Mediterranean region. A Mediterraneanwide inventory of critical habitats-sea grass beds, intact rocky shorelines, persistent frontal systems, estuaries, deep-water coral assemblages and sea mounts-could provide basic information on areas associated with high delivery of ecosystem services. Much of the information already exists or is currently being collected through national reporting or regional projects.

46. At sub-regional level, the tentative to identify important ecosystem properties and assessment of ecological status and pressures of the sub-regional documents of 2011, led to very general and non-spatialized information. This is most probably due to the lack of knowledge concerning these ecosystems as underlined in the Ionian Sea and Central Mediterranean report: "Overall, the coastal and marine biodiversity as well as the pressures and impacts exerted on of the Mediterranean Sea remains relatively little known despite the increasingly considerable efforts made by the international scientific community to grasp it".

Within the needs and gaps underlined in 2011, some are still relevant today:

- ✓ Lack of taxonomic knowledge for some groups
- ✓ Mapping capacities need to be developed especially for habitats and pressures
- ✓ Link biodiversity to ecosystem functioning

Remarks

47. **Assessing the ecosystem properties** includes defining the attributes that characterize the ecosystems such as geographic and bathymetric extension, biodiversity and degree of organization of the ecosystem, identifying functions and processes within the ecosystem. The acquisition of national homogeneous data through IMAP, should progressively build an image of the important ecosystem properties throughout the Mediterranean Sea with more precision.

48. <u>The Initial Integrated Assessment of the Mediterranean Sea and Coastal Areas</u> finalized in 2011 is presented as answering to the expectations of step 3. It appears therefore that step 3 was not expected to be implemented at national level. National monitoring and assessment programmes have assessed protected sensitive or specific species and groups but rarely ecosystem properties. Yet, it is an essential step for a country to identify important ecosystem properties and assess their status and pressures before implementing an integrated monitoring and assessment programme.

49. The recent reports delivered by the UNEP/MAP system answer this step at regional, subregional and to some extent to national level. The 2023 MED QSR that is in preparation should bring more evidence concerning the identification of important ecosystems and pressures at regional or subregional level through the IMAP inputs from the Contracting Parties.

Recommendations

50. It can be considered that important ecosystem properties have been identified and ecological status and pressures have been assessed at regional and sub-regional levels through numerous documents. It could be recommended to consider establishing a mapping system with the capacity of overlaying important ecosystem properties, ecosystem condition and pressures, using perhaps also modelling methods, which would give a holistic and analytic approach at various levels integrating different existing MAP managed platforms, such as the Mediterranean Biodiversity Platform developed by SPA/RAC into a unique comprehensive Information System, as an integral part of the UNEP/MAP Ecosystem Approach. Collaborations with partners in data network could be considered to minimize the investment in mapping technologies and resources.

IV. Development of a set of ecological objectives	Deciencl	
corresponding to the vision and strategic goals	Regional	

Achievements

51. COP 17 adopted a set of 11 Ecological Objectives based on Article 18 of the Barcelona Convention and in line with the agreed ecological vision and strategic goals for the Mediterranean under the ecosystem approach (Decision IG. 20/4). The development of these ecological objectives were based on the initial assessment report (UNEP(DEPI)/MED WG.363/Inf.21) and are in line with the 11 descriptors of EU MSFD.

52. The following 11 Ecological Objectives with operational objectives and proposed indicators were defined in <u>Decision IG. 20/4</u>:

EO 1. Biodiversity, EO 2. Non-indigenous species, EO 3. Harvest of commercially exploited fish and shellfish, EO 4. Marine food webs, EO 5. Eutrophication, EO 6. Sea-floor integrity, EO 7. Hydrography, EO 8. Coastal ecosystems and landscapes. EO 9. Pollution, EO 10. Marine litter, EO 11. Energy including underwater noise.

53. COP 18 adopted <u>Decision IG. 21/3</u> that includes definitions of GES and proposed targets for the indicators corresponding to the Ecological Objectives: EO 1. Biodiversity, EO 2. Non-indigenous species, EO 5. Eutrophication, EO 7. Hydrography, EO 8. Coastal ecosystems and landscapes. EO 9. Pollution, EO 10. Marine litter.

54. During COP 19, the CPs adopted <u>Decision IG.22/7</u> that defines the Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and Related Assessment criteria. 27 Common Indicators (CIs) including 4 Candidate Indicators were defined belonging to 9 of the 11 Ecological Indicators. Indicators proposed in Decision IG. 20/4 for EO 4 and EO 6 were considered not enough mature to be included.

UNEP/MAP Ecosystem	UNEP/MAP Ecosystem Approach
Approach strategic goals	Ecological objectives as defined in COP
	17
To protect, allow	EO 1 Biological diversity is maintained or
recovery and, where	enhanced.
practicable, restore the	EO 2 Non-indigenous species introduced
structure and function	by human activities are at levels that do
of marine and coastal	not adversely alter the ecosystem
ecosystems thus also	EO 3 Populations of selected
protecting biodiversity,	commercially exploited fish and shellfish
in order to achieve and	are within biologically safe limits,
maintain good	exhibiting a population age and size
ecological status and	distribution that is indicative of a healthy
allow for their	stock
sustainable use.	EO 4 Alterations to components of
//	marine food webs caused by resource
	extraction or human-induced
11	environmental changes do not have long-
11	term adverse effects on food web
11	dynamics and related viability
To reduce pollution in	FO 5 Human-induced eutrophication is
the marine and coastal	prevented, especially adverse effects
environment soas to	thereof, such as losses in biodiversity,
minimise impacts on	ecosystem degradation, harmful algal
and risks to human	blooms and oxygen deficiency in bottom
and/or ecosystem	waters
health and/or uses of	EO 6 Sea-floor integrity is maintained,
the sea and the coasts.	especially in priority benthic habitats
	EO 7 Alteration of hydrographic
	conditions does not adversely affect
X//	coastal and marine ecosystems
X/4	EO 8 The natural dynamics of coastal
	areas are maintained and coastal
To prevent, reduce and	ecosystems and landscapes are preserved
manage the	EO 9 Contaminants cause no significant
vulnerability of the sea	impact on coastal and marine ecosystems
and the coasts to risks	and human health
induced by human	EO 10 Marine and coastal litter do not
activities and natural	adversely affect coastal and marine
events.	environment
	EO 11 Noise from human activities cause
	I an even trent was at our many was and
	no significant impact on marine and coastal ecosystems

55. Correspondence between Strategic Goals and Ecological Objectives can be proposed as follows:

Figure 1 Relations between EcAp Strategic Goals and Ecological Objectives

<u>Gaps</u>

56. Common Indicators have not yet been defined for EO 4 and EO 6 although work is ongoing by SPA/RAC to propose indicators for EO 6 in the following months.

57. EO 11's indicators are still candidate indicators.

<u>Remarks</u>

58. It is considered that the evaluation of Step 4 is only relevant at regional level.

Recommendations

59. Ecological Objectives have been defined taking in consideration 11 Descriptors of EU MSFD. The IMAP Ecological Objectives are in great majority comparable to the 11 EU MSFD Descriptors. New EOs could be developed in IMAP not necessarily existing in MSFD in coordination as appropriate with MSFD implementation and potential review.

60. If, in the future, consistent changes are operated in the EcAp Roadmap vision or Strategic Goals, these need to be in agreement with the Ecological Objectives and *vice versa*.

61. Interrelations between EOs could be developed (e.g., EO 1 and EO 6, EO 1 and EO 3) by developing CI useful for both.

62. ECAP and IMAP currently do not consider climate change while many descriptors are likely to be impacted by climate change (biodiversity, NIS and others). Studying the impact of climate change and ocean acidification on GES and threshold values already defined could help understand marine and coastal biodiversity resilience in front of climate change impacts.

V. Derivation of operational objectives with indicators	
and target levels	Regional

Achievements

63. UNEP/MAP and its components in synergy with the EcAp governance bodies have further defined Ecological Objectives (EOs) by determining operational objectives, indicators, GES definitions and targets for 9 EOs, the 3 remaining EOs are at various stages of development. Successive decisions have been agreed on with the CPs to implement progressively the Ecosystem Approach and implement the monitoring and assessment programme (IMAP) supported by specific actions and programmes as well as guiding documents.

64. COP 17 endorsed <u>Decision IG. 20/4</u>, adopting 11 Ecological Objectives (EOs) each with a set of Operational Objectives (OO) and indicators. Therefore, operational objectives have been defined for all 11 EOs

65. COP18, adopted through <u>Decision IG. 21/3</u>, an integrated list of indicators, Mediterranean Good Environmental Status definitions and related targets for Operational Objectives corresponding to 7 of the 11 Ecological Objectives: EO 1, EO 2, EO 5, EO 7, EO 8, EO 9, EO 10. Indeed, although COP 17 (Decision IG.20/4) adopted indicators for all the Operational Objectives, it was decided to focus, during the initial phase of Ecosystem Approach Roadmap implementation, on those ecological objectives for which data availability and methodological advancements would allow their effective monitoring. Therefore, it was considered that the definitions of GES, indicators and related targets for EO 3, EO 4, EO 6 and EO 11, were not yet ready for effective monitoring

66. Cooperation with other regional bodies was developed to ensure common monitoring and assessment procedures in relation with EO 1, EO 3 and EO 11. For EO 1, cooperation was developed with GFCM for commercial species and ACCOBAMS for cetaceans. The development of EO 2 on NIS was done in collaboration with the Joint Research Centre (European Commission's science and knowledge service). Cooperation is developing for EO 1 with GFCM for commercial species and ACCOBAMS for cetaceans. The EO 3, common indicators, GES and targets have been developed by GFCM and the assessment results are to be provided to UNEP/MAP for the integrated assessment. The development of EO 11 will be followed by UNEP/MAP and ACCOBAMS that will also propose pilot monitoring activities to validate the two Candidate Common Indicators (CCI).

67. The Correspondence Group on Monitoring (CORMON) per each cluster and the CorrespondenceGroup on GES and Targets (COR GEST) groups, with the overall guidance of the Ecosystem Approach Coordination Group and with technical support of the Secretariat and the MAP components, concluded a list of IMAP Common and Candidate Indicators (23 Common Indicators and 4 additional Candidate Common Indicators to be tested) covering most of the Ecological Objectives (with the exception of EO 4 and EO 6 for which conditions were not mature enough to ensure monitoring feasibility), with the aim to serve as the basis for the integrated monitoring and assessment at regional and national levels. This list of IMAP indicators was adopted by COP 19 through the Decision IG. 22/7.

68. Common Indicator guidance factsheets have been prepared for the CIs of EO 1 (Biodiversity), EO 2 (Non-Indigenous Species) and EO 3 (Fisheries). They were reviewed by CORMON Biodiversity and Non-Indigenous Species and SPA/RAC Focal Points and approved by the EcAp CG during their 6th Meeting in Athens in 2017. The factsheets give for each CI the relevant GES definition, the Operational Objective and the associated targets. These factsheets are available through the UNEP/MAP – Barcelona Convention web site <u>here</u>. UNEP/MAP – Barcelona Convention web site <u>here</u>. The latest guidance factsheets are listed and accessible through Table B (Annex II of this document). Common Indicator guidance factsheets have been prepared for the CIs of EO 5, EO 9 and EO 10. They were prepared within the MED POL programme and reviewed by CORMON on Pollution, CORMON on Marine Litter and MED POL Focal Points and approved by the EcAp CG during their 6th Meeting in Athens in 2017. The factsheets give for each CI the relevant GES definition, the Operational Objective and the associated targets. These factsheets are available through the EcAp CG during their 6th Meeting in Athens in 2017. The factsheets give for each CI the relevant GES definition, the Operational Objective and the associated targets. These factsheets are available through the UNEP/MAP – Barcelona Convention web site on the MED QSR page <u>here</u>.

69. Substantial efforts have been made by MED POL to determine the appropriate tools (CHASE+, traffic light and NEAT methodologies) and GES/ non-GES threshold values for the Adriatic, the North-Western Mediterranean and the Levantine Sea sub-region (see documents of CORMON on Pollution, 27-30 May 2022, UNEP/MED WG.533/5 and recent technical reports from UNEP/MAP MED POL on the subject). Selected methodologies and threshold values for CI 17 and CI 21 will be available in MED QSR 2023.

70. The candidate CI 25 *Land use change* is being tested and results for the Adriatic sub-region will be presented in the 2023 QSR. Here, a reference to some climate change parameters will be include as well, such as areas prone to coastal flooding. The next CORMON meeting will discuss and revise the upgraded Guiding Factsheet with a view to be adopted by the COP as a CI.

71. Common Indicator guidance factsheets have been prepared for the Common Indicators of EO 7 and EO 8. They were reviewed by CORMON on Coast and Hydrography, and PAP/ RAC National Focal Points and approved by the EcAp CG during their 6th Meeting in Athens in 2017. These factsheets are available through the UNEP/MAP – Barcelona Convention web site on the MED QSR page <u>here</u>.

72. Based on the <u>Decision IG.25/13</u>, a multidisciplinary group of experts nominated by the Contracting Parties will be established to define parameters allowing to use phytoplankton and zooplankton for relevant IMAP biodiversity indicators and to elaborate the List of Reference of Pelagic Habitat Types in the Mediterranean Sea so that it can be used, where necessary, as a basis for identifying reference pelagic habitats to be monitored and assessed at the national level under the IMAP. The outcomes of this group will be presented for the COP 23 for consideration.

73. The proposed UNEP/MAP Programme of Work 2022/2023 and the SPA/RAC Programme of Work of 2022-2023, include the development of Common Indicators for EO 4 (marine food webs) and EO 6 (seafloor integrity) led by SPA/RAC. The development of these two EOs is expected to be finalized by end 2023. They will be developed with the support of the EU funded projects "Support coherent and coordinated assessment of biodiversity and measures across Mediterranean for the next 6-year cycle of MSFD implementation" (ABIOMMED) and "Support to efficient implementation of the Ecosystem Approach-based Integrated Monitoring and Assessment of the Mediterranean Sea and

Coasts and to delivery of data-based 2023 Quality Status Report in synergy with the EU MSFD" (EcAp MED III).

74. Currently GES definitions, related targets and common indicators are being developed by SPA/RAC for EO 6.

75. SPA/RAC was involved in the EU co-funded project "Joint Programme for GES assessment on D11-noise in the Mediterranean Marine Region" (<u>QUIETMED2</u>) (2019-2021) which aimed to come up with a joint proposal of a candidate for an impulsive noise indicator in the Mediterranean Region and a common methodology for competent authorities to establish thresholds values, together with associated lists of elements and integration rules. This should the development of EO 11 in coherence with EU MSFD.

<u>Gaps</u>

76. Operational Objectives, GES definitions, Common Indicators and related targets have not yet been defined for EO 4 and EO 6. The two candidate indicators of EO 11, are still at an initial phase of development (countries invited to test the two CCIs by developing pilot monitoring of these CCIs).

77. Within EO 1 (Biodiversity), CI 1 and 2 concern Mediterranean marine habitats. In the actual state, the development (factsheets and monitoring guidance) of these indicators concerns only some specific benthic habitats (Coralligenous, maerl/rhodolith habitats and seagrass meadows). No deep-sea habitats are for the moment covered (e.g., deep-sea coral gardens or cold water gardens).

78. Indicators for pelagic habitats are not easy to develop and GES determination appears also to be a difficult task for the MSFD¹³. Work is ongoing to define parameters allowing the use of phyto and zooplankton for relevant IMAP biodiversity indicators and to define pelagic habitats. It is important that pelagic habitats be taken in consideration in the EcAp monitoring and assessment of the Mediterranean Sea since they have an important role in food webs.

79. Within EO 1 (Biodiversity), CIs 3 to CI 5 are related to seabirds, mammals and reptiles. Further work with GFCM is needed to develop indicators for e.g., fish or cephalopods.

80. The templates used for the factsheets for the Ecological Objectives are heterogeneous not underlining the same information. The template used for EO 7 and EO 8 is different from the others and does not give the associated Operational Objectives. As an example, a few targets are proposed for CCI 25 (EO 8) with interpretation left to the countries, and for CI 16 (EO 8), targets are to be defined by the countries. Even if the nature of the indicators is different than indicators of other EOs, and some field remain empty, the format of the factsheets could be identical to the format used for other EOs to ensure coherence and comparability.

81. Operational Objectives, GES definitions, Common Indicators and related targets for the IMAP Ecological Objectives are dispersed. No synthetic updated document regrouping these elements was found.

82. Threshold values still need to be defined for many CIs.

Recommendations

83. Assessment criteria and information relative to the IMAP Common Indicators exist but tend to be dispersed. It could be recommended that the document <u>Integrated Monitoring and Assessment</u>

¹³ Varkitzi, I., Francé, J., Basset, A., Cozzoli, F., Stanca, E., Zervoudaki, S., ... Pagou, K. (2018). Pelagic habitats in the Mediterranean Sea: A review of Good Environmental Status (GES) determination for plankton components and identification of gaps and priority needs to improve coherence for the MSFD implementation. *Ecological Indicators*, *95*, 203–218. doi: <u>10.1016/j.ecolind.2018.07.036</u>

Programme of the Mediterranean Sea and Coast and Related Assessment Criteria UN Environment/MAP Athens, Greece (2017) be updated although common indicators and target levels for EO 4 and EO 6 have not yet been developed. It could contain in Annex the actual factsheets for each indicator in a homogeneous presentation. An interesting alternative is to create a practical online centralised information platform (perhaps on the model of the online MED QSR 2017) that would regroup all the current operational objectives, targets for EOs and also data dictionaries and data standards, threshold values, assessment criteria, guidance factsheets and guidelines and monitoring protocols for the indicators of all EOs (including EO 3).

84. It is recommended to finalize as soon as possible the development of indicators, target levels, threshold values and factsheets for EO 6 and target levels and factsheets for Candidate Common Indicators of EO 11 in coherence with EU MSFD Descriptors (see outputs of QUIETMED2 project).

85. Indicators developed for EO 6 could perhaps be at least partly common or in relation with indicators of EO 1.

86. For EO 1 it could be considered to add specific pelagic habitats (upwelling areas, fronts and gyres) and pelagic ecosystems (phyto and zooplankton) as well as a limited number of fish and cephalopods species. These are important components of marine food webs (EO 4) and common indicators could be considered between EO 1 and EO 4.

87. EO4 on food webs is a complex subject. The development of operational objectives indicators and targets for EO 4 may benefit of some extra time.

88. Threshold values need to be agreed on for many CIs. This is a difficult task that that needs to progress so that GES can be assessed.

VI. Revision of existing monitoring programmes for	In relation with defined EOs
ongoing assessment and regular updating of	Regional
targets	Sub-regional
	National

Achievements

89. Based on Ecological Objectives and proposed indicators, UNEP/MAP Secretariat and components defined and developed the Integrated Monitoring and Assessment Programme (IMAP) in collaboration with GFCM and ACCOBAMS for specific EOs. This was achieved with governance setup to support the development and implementation of the ecosystem approach that includes specific correspondence groups COR GEST (GES and targets), COR ESA (economic and social analysis) and especially CORMONs on monitoring, the EcAp Task Force and the EcAp Coordination Group to review and validate different outputs.

90. COP19 adopted the Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and related Assessment Criteria, IMAP, (<u>Decision IG. 22/7</u>). The IMAP implementation covers the period from 2016 to 2021.

91. IMAP is a key achievement for the Mediterranean region, as it will enable integrated analysis of the state of the marine and coastal environment, covering pollution, marine litter, biodiversity, non-indigenous species, coast, and hydrography, based on common regional indicators, targets and Good Environmental Status (GES) descriptions throughout all the UNEP/MAP contracting parties.

92. The development of such an ambitious monitoring programme was progressive to ensure feasible and validated indicators and define appropriate target levels. In addition, UNEP/MAP components in collaboration with GFCM and ACCOBAMS and EU Joint Research Centre (JRC) as well as EcAp governance, defined: Data Dictionaries and Data Standards, monitoring and assessment scales, assessment criteria, threshold and baseline values as well as guidance factsheets and guidelines and monitoring protocols for many Common Indicators. Work is ongoing to refine and update these

standards and develop new ones for other CIs and test Candidate Common Indicators. In line with <u>Decision IG. 21/3</u>, IMAP was first to be implemented in an initial phase between 2016-2019, during which the existing national monitoring and assessment programmes were to be integrated, in line with the IMAP structure and principles and based on the agreed common indicators. This implied in practice that the existing national monitoring and assessment programmes be reviewed and revised as appropriate so that national implementation of IMAP could be fulfilled in a sufficient manner (see <u>Decision IG. 22/7</u>). During the initial phase of IMAP (2016-2019), Contracting Parties were requested to:

- Elaborate/update their existing monitoring programmes in order to cover the IMAP areas, common indicators in line with the IMAP, and, based on the Integrated Monitoring and Assessment Guidance, Common Indicator Factsheets.
- Continue reporting based on their existing national monitoring programmes until they were updated into a national Integrated Monitoring Programme.
- Following the update of their existing monitoring programmes, report quality assured data following a common regional monitoring reporting template.

93. Considerable efforts (technical, capacity building and financial support) have been developed by the UNEP/MAP Coordinating Unit and Components to implement (update or develop) IMAP at national level through the support of the EU-funded EcAp MED II, EcAp MED III, GEF Adriatic, Marine Litter MED II, IMAP MPA projects and GEF MedProgramme child project 1.1. The Progress Report on activities carried out during the 2020-2021 biennium (Decision IG. 25/3) informed on the coordination of the activities avoiding any possible overlap and the progress made in IMAP implementation through these sub-regional projects.

94. Through the EU funded projects EcAp MED II, III, and IMAP-MPA, SPA/RAC UNEP/MAP components and other partners in collaboration with the CPs, supported the development of national monitoring programmes on Biodiversity and NIS based on IMAP (EO 1 and 2) in 7 Contracting Parties. Capacity building was developed through sub-regional training workshops on NIS and cetaceans between 2017 and 2019 and national training sessions between 2018 and 2019 (see SPA/RAC site). National monitoring programmes based on IMAP were defined for <u>Algeria</u>, <u>Egypt</u>, <u>Israel</u>, <u>Lebanon</u>, <u>Libya</u>, <u>Morocco</u> and <u>Tunisia</u>.

95. The Progress Report on the implementation of Decision IG.22/7 on the Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and Related Assessment Criteria (IMAP) (<u>UNEP/MED WG.450/3</u>, 2018) gives an overview of the progress of national IMAP implementation by cluster:

- ✓ <u>Biodiversity and NIS cluster</u>. SPA/RAC supported the Contracting Parties towards successful implementation of their national monitoring programmes on biodiversity through pilot projects. The ongoing activities include implementation of specific Memoranda of Understanding with relevant national authorities, with the aim to develop monitoring programmes on biodiversity and NIS-related IMAP Common Indicators.
- ✓ Pollution and litter cluster. In accordance with Article 12 of the Barcelona Convention which stipulates that all Contracting Parties shall establish pollution monitoring programmes and designate the competent authorities responsible for pollution monitoring, and Article 8 of the Land–Based Sources Protocol, the Secretariat/ MED POL continues to support the Contracting Parties to the Barcelona Convention in implementing the National Marine Pollution Monitoring Programmes. Small-Scale Funding Agreements (SSFAs) were concluded with Egypt, Israel, Lebanon, Libya and Morocco, and financed through the Mediterranean Trust Fund (MTF) and EcAp MED II and Marine Litter MED Projects. Capacity building workshops to support national implementation of IMAP and related criteria for eutrophication and marine litter were

organized in Egypt in 2018, Morocco in 2018 and Libya in 2018). The workshops addressed the methodological and practical aspects related to monitoring and assessment of marine environment with regards to pollution and marine litter clusters of IMAP Common Indicators: 13, 14, 22 and 23. The IMAP monitoring protocols and assessment methods, sample processing, metadata, reporting templates, as well as the examples of existing national monitoring schemes and capacities compared to IMAP requirements and the guidance factsheets were presented and extensively discussed.

Coast and hydrography cluster. A training workshop on coast and hydrography IMAP Common Indicators was held on 26-27 October 2016, in Rabat, Morocco, dedicated to the precise definition of monitoring requirements. A second training workshop on coast and hydrography IMAP Common Indicators was held in 24-25 April 2017, in Rome, Italy, which allowed experts to exchange state-of-the-art information regarding the development of national IMAP-based monitoring and assessment programmes.

96. Within <u>Post-2020 SAPBIO</u>, goal 3 includes updating national monitoring programmes in light of the new elements of IMAP and achieve regular reporting and identifying the gaps that hinder the good environmental status evaluation, and in case needed, support countries to fill them out

97. Through EcAp MED II and III projects, PAP/RAC supported the implementation of national monitoring programmes on Hydrography and Coastal Ecosystems and Landscapes based on IMAP (EO 7 and 8) in 7 Contracting Parties. Implementation of national monitoring relative to hydrography and coastline: Algeria, Israel, Lebanon, Libya, Morocco, Tunisia. Also, reports are available for baseline state of Common Indicator 15 (EO 7) and for Common Indicator 16 (EO 8): Algeria, Egypt, Israel, Libya, Lebanon, Morocco and Tunisia. All these reports are available on the UNEP/MAP PAP/RAC ICZM Platform. Independently from these projects, PAP/RAC supported the monitoring of CI 15 (EO 7) and CI 16 (EO 8) in several other Mediterranean countries not eligible for EcAp MED projects.

98. Working sessions on data reporting to IMAP Info System for CIs related to Biodiversity and Pollution are taking place through the IMAP-MPA and EcAp MED III projects and organised by SPA/RAC and INFO/RAC. Recently, a working session was organised for Libyan experts (11-13 October 2022).

99. According to UNEP/MED WG 514/3 and as reported in the Joint Meeting of the EcAp Correspondence Group on Marine Litter Monitoring and ENI SEIS II Assessment of Horizon 2020/National Action Plans of Waste Indicators, April 2019 (see <u>UNEP/MED WG.464/3</u>), MED POL has supported the preparation and/or the update and implementation of national IMAPs with regard to EO 5, EO 9 and EO 10 for Albania, Bosnia and Herzegovina, Egypt, Israel, Montenegro, Libya, Morocco and Türkiye.

100. Türkiye has been also progressing on IMAP implementation, with most recent efforts to strengthen the integration of IMAP provisions into the national monitoring programmes through the implementation of the EU-funded Project entitled "Technical Assistance for capacity building on Marine Strategy Framework Directive in Türkiye (2015-2017)" (see UNEP/MED WG.450/3, 2018).

101. Through Marine Litter MED II project (2020-2023), Candidate Common Indicator 24 "Trends in the amount of litter ingested by or entangling marine organisms focusing on selected mammals, marine birds and marine turtles (EO 10)" is in progress of validation and tested at national level in Tunisia and Lebanon (see <u>Report of the Marine Litter MED II Project 1st Steering Committee Meeting, November 2021</u>).

102. The sub-regional GEF Adriatic project allowed the first integrated monitoring programmes fully based on IMAP taking in consideration all the adopted EOs for <u>Albania</u> and <u>Montenegro</u> as well as two baseline state surveys based on IMAP one in <u>Montenegro</u> and one in <u>Albania</u>. GES has also

been assessed in <u>Albania</u> and <u>Montenegro</u> throughout the GEF Adriatic project. Summary of results for Montenegro are available <u>here</u>. Other documents of interest have been produced by the project concerning <u>hard bottom habitats in Boka Kotorska Bay</u> (Montenegro), <u>results of the Marine Survey in Patok-Rodoni Bay</u> (Albania) and <u>summary report</u> The GEF Adriatic project (<u>synthesis</u>, <u>infographic</u>) has had a powerful demonstrative impact expected to reverberate well beyond the Adriatic, particularly in promoting <u>Marine Spatial Planning processes based on the Ecosystem Approach</u>, and it demonstrated the use of IMAP indicators for MSP in particular.

103. The <u>GEF MedProgramme (2020-2024)</u> child project 1.1 titled: "Reducing Pollution from Harmful Chemicals and Wastes in Mediterranean Hotspots and Measuring Progress to Impacts" has an important component on IMAP Implementation including a section for the preparation of the Offshore monitoring strategy. This includes the definition of minimum 20 locations for offshore reference monitoring stations in beneficiary countries (Albania, Algeria, Bosnia and Herzegovina, Egypt, Lebanon, Libya, Montenegro, Morocco, Tunisia and Türkiye). Progress has been made primarily to engagement with national authorities.

104. The document *Methodologic approaches for mapping the interrelations between Pressures-Impacts and the Status of Marine Ecosystem Components for Biodiversity Cluster* has been agreed on (<u>UNEP/MED WG.500/10</u>). This document reviews the suitable tools to show the environmental status of the Biodiversity Ecological Objectives across the Mediterranean Sea and Coasts, and pressures/impacts/state interactions. It specifically provides inputs on identifying most significant economic sectors as sources of pressures and addressing interrelations of pressures and impacts on the biodiversity cluster, covering the Common Indicators of the IMAP's EO1 Biodiversity and EO2 Non-indigenous species.

105. A methodological document is also in preparation and agreement between MED POL Focal points and the CORMON on Pollution for the IMAP cluster on Pollution and Marine Litter: *Integration and Aggregation Rules for Monitoring and Assessment of (IMAP Pollution and Marine Litter Cluster)* (document UNEP/MED WG.509/10 not available).

106. Work is ongoing to establish specific cooperation with GFCM with the objective of sharing common data sets relevant for the implementation of IMAP Common Indicators of Ecological Objective 3. This partnership will facilitate the inclusion of data and information from Fishery associated Common Indicators into the IMAP Info system. Terms of Reference for a bilateral agreement have been drafted together with a draft Roadmap to facilitate close cooperation with GFCM.

107. In the framework of the Programme of Work and Budget for 2018–2019 of UNEP/MAP (Decision IG.23/14) and supported by the EU funded EcAp MED II project, INFO/RAC has developed the "IMAP Pilot Info System" platform to facilitate access to knowledge for managers and decision-makers, as well as stakeholders and the general public. It enables the Contracting Parties to start reporting data for selected **11 IMAP Common Indicators** (selected from the three clusters) and laying down the basis for building a fully operational IMAP Info System as requested by the Integrated Monitoring and Assessment Programme adopted by COP 19 (Decision IG. 22/7). The IMAP pilot Info System is operational since the 1st July 2019. A User Guide has been developed to provide general assistance to users and support to CPs during the data upload is proposed.

108. Accessible through the IMAP Pilot Info System, Data Standards and Data Dictionaries are available for the 11 Common Indicators from the three clusters, for which data may be uploaded by the CPs. These have been agreed on by the CORMONs, the MED POL Focal Points and the SPA/BD Thematic Focal Points and updated in 2020-2021 taking in account the remarks from the CPs.

109. Work on technical documents concerning scales of assessment, assessment criteria, thresholds and baseline values for IMAP implementation and the preparation of the 2023 MED QSR was and is performed in the context of UNEP/MAP PoW 2020-2021 and PoW 2022-2023 and the EU-funded EcAp MED III and IMAP MPA Projects. The proposals are discussed by Online Working Groups (OWG) and cluster related CORMON. EcAp CG integrates, coordinates and gives guidance. Annex

II, Table B presents the available documents on data dictionaries/data standards, monitoring and assessment scales, assessment criteria, thresholds values, baseline values, factsheets and guidance documents for the IMAP Common Indicators. Many have been updated and others are in validation process or discussion. All Common Indicators (even candidate) have factsheets, many have guidelines and monitoring protocols and data dictionaries and data standards defined or currently being defined.

110. Five Science-Policy Interface workshops (SPI workshops) have been organized by Plan Bleu between 2015 and 2017 and have contributed to IMAP implementation with the overall aim to enhance interaction across scientists and between them and policy-makers (practitioners and the ones who develop marine policies) on the ecosystem approach implementation, with focus on the specific IMAP requirements.

111. Science Policy Interface (SPI) is a crucial element for the effective implementation of the Integrated Monitoring and Assessment Programme (IMAP). SPI activities are increasing to support IMAP implementation at all levels. The document <u>UNEP/MED WG.482/24</u> provides a number of proposals in view of promoting SPI for IMAP implementation.

112. In the context of the EU-funded EcAp MED II project regional cooperation and SPI will be boosted at national level. SPI networks of scientists and policy makers will be strengthened for the IMAP implementation including by designing and implementing 1-2 SPI pilots at country level.

113. Two publications on Science Policy Interface in relation to EcAp and IMAP have been edited by Plan Bleu. A brochure "<u>Science-Policy Interface (SPI) to support monitoring implementation</u> *plans as well as sub-regional and regional policy developments regarding EcAp clusters on pollution, contaminants & eutrophication, marine biodiversity & fisheries, coast & hydrography*¹⁴" and a technical report "<u>Strengthen, structure and sustain a Science Policy</u> <u>Interface (SPI) for IMAP implementation in the Mediterranean</u>" provide recommendations for the IMAP clusters.

Gaps

114. The document <u>Study on trends and outlook of marine pollution</u>¹⁵underlines that in 2021 implementation of national IMAPs concerning marine pollution is still partial and limited and that full implementation of IMAP and related reporting is needed. Also, there is a need for better coordination at national and sub-regional level on NIS monitoring. Further the document indicates, p. 181, that despite the effort of the Secretariat to facilitate reporting obligation, the majority of the 22 CPs, are still in non-compliance with their reporting obligation under Article 9 of the 2002 Prevention Protocol. This has an impact on the monitoring of the CI 19 and on the assessment of the progress made regarding EO 9.

115. The Post-2020 Strategic Action Programme for the Conservation of Biodiversity and Sustainable Management of Natural Resources in the Mediterranean Region (Post-2020 SAPBIO) (Decision IG. 25/11) states that "despite notable progress, the environmental status of the Mediterranean Sea is in 2020 far from where expected to be; countries are not on the track to achieve and fully implement the agreed upon goals, including the SDGs and the Ecological Objectives for GES. Most trends show some progress towards the set targets, but at an insufficient rate, unequally across the countries, or even moving away from the targets. For the time being, knowledge, data availability and sharing, were found insufficient and very patchy. National reports note a great disparity between the northern and the southern shores of the Mediterranean in terms of inventories,

¹⁴ Plan Bleu (2019). Science-Policy Interface (SPI) to support monitoring implementation plans as well as subregional and regional policy-developments regarding EcAp clusters on pollution, contaminants and eutrophication, marine biodiversity and fisheries, coast and hydrography

¹⁵ Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (2021). Study on trends and outlook of marine pollution from ships and activities and of maritime traffic and offshore activities in the Mediterranean, Floriana

mapping and ecological monitoring". Assessment and mapping efforts, before even monitoring biodiversity (EO 1) at national level, is uneven throughout the Mediterranean countries.

116. **Implementation of IMAP at national level is not satisfactory.** The document presented at the 8th Meeting of the EcAp CG the 9th of September 2021 <u>UNEP/MED WG. 514/Inf. 8</u>, presents the status of IMAP implementation per Common Indicator and per Contracting Party (December 2020 - February 2021) as declared by the countries.

117. The following figure presents the situation relatively to IMAP national implementation as indicated in the document <u>UNEP/MED WG. 514/Inf. 8</u> based on a survey addressed to the CPs.

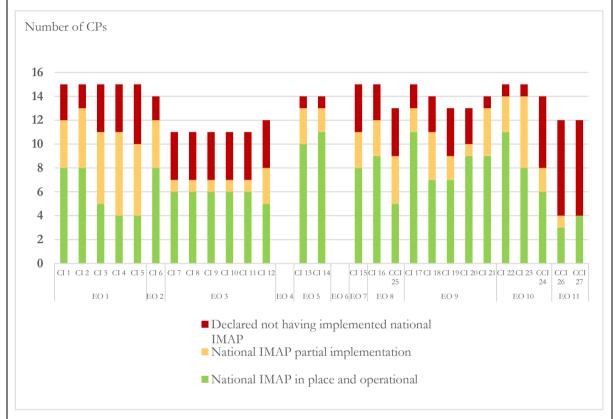


Figure 2 Status of IMAP implementation at national level (Dec 2020-Feb 2021 according to UNEP/MED WG.514/Inf.

- In 2021, the most implemented IMAP indicators at national level concern Eutrophication (EO 5), Pollution (EO 9) and Marine Litter (EO 10). EO 7 and 8 on Hydrography and Coastal ecosystems and landscapes indicators follow closely.
- Indicators of EO 1 Biodiversity appear as little implemented totally at national level but 4 to 6 CPs had partly implemented these indicators in 2021. These could possibly be totally implemented today.

118. Despite the efforts of the UNEP/MAP Secretariat, in 2021 only 4 CPs had answered that national IMAP was totally or partially in place and operational for all Common Indicators (excluding candidate common indicators).

119. The national monitoring programmes reports based on IMAP are of unequal pertinence, some are more a state of the art concerning biodiversity and NIS, rather than a monitoring programme.

120. The General Status of the progress in the implementation of the Barcelona Convention and its Protocols: Analysis of the Information Mentioned in the National Reports for the 2018-2019 Biennium (<u>UNEP/MED IG.25/Inf.8</u>) reports:

- ✓ Concerning implementation of quality status monitoring and Integrated Monitoring and Assessment (IMAP), with focus on monitoring of biodiversity-related Ecological Objectives (EO) (i.e., EO-1 biodiversity, EO-2 non-indigenous species, EO-3 harvest of commercially exploited fish and shellfish, EO-6 sea floor integrity). Only some reporting Contracting Parties (4 out of 11) indicated having monitoring activities in place, and others noted ongoing work in this area.
- ✓ More generally, monitoring of the Biodiversity related Ecological Objectives within the framework of the Integrated Monitoring Assessment Programme (IMAP) requires strengthening collective and national efforts.

121. The IMAP Info System is currently supporting the reporting of 11 IMAP Common Indicators (CI 1, 2, 6, 13, 14, 15, 16, 17, 21, 22 and 23) with available standards, and was planned to be upgraded by June 2022 to include all mandatory IMAP Common Indicators (CI 3, 4, 5, 18, 19, 20) (see 8th Meeting of the EcAp CG, <u>UNEP/MED WG.514/5</u>). To date (October 2022), the system has not been upgraded to include all CIs and associated standards.

122. MED POL has supported the preparation and/or the update and implementation of national IMAPs with regard to EO 5, EO 9 and EO 10 for Albania, Bosnia and Herzegovina, Egypt, Israel, Montenegro, Libya, Morocco and Türkiye. Recent reports were not found concerning these implementations.

123. Data acquired through GEF Adriatic for Montenegro and Albania is to date, not uploaded to IMAP Info System.

<u>Remarks</u>

124. The important number of dataset submitted by the CPs for pollution and marine litter cluster, i.e. EO 5, EO 9 and EO 10 relatively to the other EOs, is in relation with the early and long-term implementation of SAP MED, the early development and updating of related National Action Plans (NAPs) and the legally binding associated 10 Regional Plans that bear fruit.

Recommendations

125. It is recommended to continue resource mobilization, capacity building and technical assistance at national level, as well as through regional and sub-regional collaboration, to implement IMAP at national level and enhance IMAP data acquisition and submissions by the CPs. Efforts are still needed to revise or implement monitoring programmes at national level in accordance with IMAP indicators.

126. National monitoring data submission needs to be improved.

127. It is recommended to work towards harmonizing and standardizing monitoring protocols and assessment elements and methods.

128. Science-Policy Interface could be strengthened, structured and sustained, by being integrated into the national monitoring programmes, to ensure that ongoing scientific projects can address IMAP national implementation needs, as proposed in UNEP/MED WG.450/3.

129. Cooperation should be strengthened at sub-regional level for Common Indicators, as appropriate, to share best practices and to address specific gaps within national monitoring programmes, as proposed in UNEP/MED WG.450/3.

130. IMAP generates information, documents, products and data provided by the CPs monitoring programmes that need to be compliant with defined standards to ensure interoperability and to be

stored and consistently managed. End users should easily have access to sortable data with the possibility to visualise a spatial distribution. Info web systems and GIS applications enable the storage, access and reporting of data collections and are appropriate for displaying geographical distribution of data. Therefore, the online IMAP Info System is an essential tool that should allow CPs to upload monitoring and assessment data relative to IMAP CIs easily while it should also in the future integrate assessment tools, and further facilitate spatial visualization at least of some metadata, which is currently not the case. IMAP Info System is in the actual configuration a repository of national data files. Data cannot be searched by queries since it is not assembled in a database (it is the individual files that are in a database). For end-users (that are UNEP/MAP components but could also be national Focal Points that need to assemble data from their country for communication purposes) data files need to be individually downloaded and processed. INFO/RAC is actually working on ways to improve IMAP Info System but development of this essential tool needs to be urgently boosted in terms of efficiency and accessibility. This would also probably encourage contracting parties to upload data more regularly.

131. IMAP Info system was developed with the financial support of the EU Project EcAp MED II that ended in 2019. The EcAp Med III provided additional funds to ensure that all mandatory Common Indicators are part of the IMAP Info System. Such a system is a core piece of a monitoring programme such as IMAP, and its development and maintenance needs to be ensured by long-term financial and human resources.

132. The Grid/Table and the scoreboards methods approach proposed in the document *State of play of IMAP Implementation related to Marine Litter (EO 10) and its further development* (<u>UNEP/MED</u> <u>WG. 464/3</u>) as a way of mapping pressures/impacts interactions, is of interest for EO 10 as proposed here, and could be studied for other IMAP Ecological Objectives. A nested approach is proposed at the sub-regional and sub-area scale but could be of interest at national level to help implement appropriate monitoring and assessment programmes.

133. Experience from the demonstration projects on how to use IMAP indicators in an integrated way for the preparation of the MSP should be promoted and supported. This will allow the achievement of GES through MSP as a strong policy-related measure. As the land and marine ecosystems are interdependent, the Land-Sea Interaction (LSI), as a tool that enables such correlations, should be promoted. It is worth mentioning that the <u>Pan Adriatic Scope Report on Adriatic-Ionian cooperation</u> towards <u>MSP</u> gives indicative information on the needs and opportunities for the harmonised implementation of MSP in the region.

VII. Development and review of relevant action	In relation with defined EOs
plans and programmes	Regional
	Sub-regional
	National

Achievements

134. Streamlining of the Ecosystem Approach principles, IMAP and GES targets into relevant instruments, strategies, action plans and guidelines at a regional level has been undertaken with success. The Strategic Partnership for the Mediterranean Sea Large Marine Ecosystem (MedPartnership) (2009 – 2015) contributed significantly by leading environmental institutions and organizations together with countries sharing the Mediterranean Sea to address the main environmental challenges that Mediterranean marine and coastal ecosystems face. The programme assisted countries in the implementation of the SAPs and NAPs to reduce pollution from land-based sources, and preserve the biodiversity and ecosystems of the Mediterranean from degradation, and in the implementation of the Integrated Coastal Zone Management ICZM Protocol. The National Action Plans concerning land-based sources pollution, updated in 2015 (<u>UNEP(DEPI)/MED_WG.426/3</u>), have developed the monitoring and assessment of EO 5, EO 9 and EO 10 indicators for which datasets or more reported than for other EOs (see in previous step the number of dataset submitted for IMAP indicators by EO).

135. The following Protocols and associated action plans and frameworks have been updated and include EcAp, IMAP, indicators and GES targets.

136. The Protocol for the prevention and elimination of pollution of the Mediterranean Sea by dumping from ships and aircraft or incineration at sea (Dumping Protocol). The Annex to the protocol amended and adopted in December 2021 (Decision IG.25/6, COP 22) takes in consideration the ecosystem approach for achieving good environmental status (GES) of the Mediterranean Sea and coast and integrates Ecological Objectives (e.g., levels of underwater noise for the characteristics of dumping).

137. The Protocol for the Protection of the Mediterranean Sea against Pollution from Land-Based Sources and Activities (LBS Protocol). Annexes I, II and IV amended and adopted in December 2021 (Decision IG. 25/5, COP 22) takes in consideration the ecosystem approach: "...with particular focus on those developments related to the implementation of the ecosystem approach for achieving good environmental status (GES) of the Mediterranean Sea and coast, and to the enhanced integration of the sustainable consumption and production and circular economy approaches".

- ✓ Regional Plan on Marine Litter Management in the Mediterranean in the Framework of Article 15 of the Land Based Sources Protocol (Decision IG. 21/7) and amendments (see Decision IG. 25/9) integrate the ecosystem approach and specifically the IMAP Ecological Objective 10. It was enforced by Decision IG. 22/10 Implementing the Marine Litter Regional Plan in the Mediterranean (Fishing for Litter Guidelines, Assessment Report, Baselines Values, and Reduction Targets). The CPs by amending the Regional Plan on Marine Litter Management in the Mediterranean, have agreed to increase efforts to reduce to the minimum marine litter pollution in the Mediterranean and its impacts. Marine litter measures are to be integrated in LBS National Action Plans (NAPs) including timetables for their implementation.
- ✓ The Regional Plans on Urban Wastewater Treatment and Sewage Sludge Management in the Framework of Article 15 of the Land Based Sources Protocol (Decision IG.25/8) endorsed by COP 22 also streamline elements of EcAp, IMAP and links with the achievement of GES.
- Strategic Action Programme to address pollution from land based activities (SAP MED) and related National Action Plans. Targets defined in SAP MED are to be addressed through 10 legally binding Regional Plans for the reduction of pollutants. Updated NAPs are in accordance with the pollution-related Ecological Objectives (EO 5, EO 9 and EO 10), with the aim to achieve/maintain GES on pollution and litter. The NAPs are regularly evaluated, identifying gaps and updated as in documents UNEP(DEPI)/MED WG.426/3, UNEP(DEPI)/MED WG.439/Inf.3 and UNEP(DEPI)/MED WG.426/3*1. SAP MED implementation between 2000 and 2015 is evaluated in the document: Strategic Action Programme to Address Pollution from Land Based Activities (SAP-MED) and related National Action Plans (NAP). Implementation Status 2000-2015. The majority of the Contracting Parties updated their NAPs during the period 2015-2016, based on NAP Update Guidelines, prepared by the Secretariat. The updated NAPs have been endorsed by the COP 19 (Decision IG 22/8).

138. The Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean (SPA BD Protocol). Annexes II (List of endangered species) and II (List of species whose exploitation is regulated) were amended four times since the EcAp roadmap was adopted enriching the list of species. The following Strategies and Action Plans under this protocol have been updated integrating the ecosystem approach, IMAP in particular ecological objective 1 with associated common indicators and GES targets:

- ✓ Action Plan for the conservation of coralligenous and other calcareous bioconstructions (updates in <u>Decision IG. 22/12</u>)
- ✓ Action Plan concerning Species Introductions and Invasive Species in the Mediterranean Sea (Annex III, <u>Decision IG.22/12</u>)
- ✓ The updated Action Plan for the Conservation of Marine and Coastal Bird Species listed in annex II to the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean (Decision IG. 21/4 updated by <u>Decision IG. 23/8</u>)
- ✓ Regional strategy for the conservation of monk seal in the Mediterranean (updated in <u>Decision IG. 24/7</u>, Annex II)
- ✓ Action Plan for the conservation of marine turtles in the Mediterranean (updated in <u>Decision IG. 24/7</u>, Annex III)
- ✓ Action Plan for the Conservation of Cartilaginous Fishes (Chondrichtyans) in the Mediterranean Sea (updated in <u>Decision IG.24/7</u> Annex IV)
- ✓ Action Plan for the conservation of marine vegetation in the Mediterranean Sea (updated in <u>Decision IG. 24/7</u>, Annex V)
- ✓ Action Plan for the conservation of cetaceans in the Mediterranean Sea (updated in <u>Decision IG. 22/12</u> and <u>Decision IG. 25/13</u>, Annex I)
- ✓ The 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) (<u>Decision IG. 25/13</u>, Annex II)
- ✓ In 2021, SPA/RAC submitted to the 15th meeting of SPA/BD Focal Points the *First* elements to elaborate the List of Reference of Pelagic Habitat Types in the Mediterranean Sea (UNEP/MED WG.502/7). This document will help develop the assessment and monitoring of pelagic habitats in the context of IMAP EO 1.
- ✓ Post-2020 Strategic Action Programme for the Conservation of Biodiversity and Sustainable Management of Natural Resources in the Mediterranean Region (Post-2020 SAPBIO) (Decision IG. 25/11) was elaborated taking into account the conclusions and recommendations of the evaluation of SAPBIO on the period 2004-2018 and the <u>guidance elements</u> developed by SPA/RAC. Post-2020 SAPBIO integrates the EcAp and IMAP requirements especially relative to EO 1 (see outcome 2, 3 and 4) and EO 2, 4 to 11 (see outcomes 1 and 5). The planned actions cover many needs for a better implementation of IMAP at national level including inventories and cartography of key marine habitats and assessing their status in coastal and offshore waters, update national monitoring programmes and achieve regular reporting.
- ✓ National Action Plans on NIS and marine habitats are prepared considering the IMAP priorities in some CPs. In 2018-2019 and 2020-2021, SPA/RAC supported the elaboration of the NAPs concerning species introduction and invasive species in Libya, Türkiye, Lebanon, Cyprus, Malta and the preparation of the NAPs for the conservation of Marine Turtles in Algeria, Morocco, Libya, Lebanon, Spain and Tunisia. National strategy to reduce illegal trade of marine turtles in Tunisia has been elaborated and adopted since 2019. With the assistance of SPA/RAC Montenegro elaborated NAP on coralligenous species, Morocco, Tunisia and Türkiye elaborated NAPs on

marine vegetation and coralligenous. The NAP for the conservation of the coralligenous species in Lebanon was prepared and nationally adopted with the SPA/RAC assistance.

✓ The UNEP/MAP PoW (2022-2023) plans to implement targeted NAPs measures on NIS supported in coordination with IMAP implementation in at least 2 CPs.

139. The <u>Protocol for the Protection of the Mediterranean Sea against Pollution Resulting</u> <u>from Exploration and Exploitation of the Continental Shelf and the Seabed and its Subsoil</u> (Offshore Protocol).

✓ Mediterranean Offshore Action Plan in the framework of the Protocol for the Protection of the Mediterranean Sea against Pollution resulting from Exploration and Exploitation of the Continental Shelf and the Seabed and its Subsoil (<u>Decision IG. 22/3</u>) integrates the ecosystem approach, IMAP ecological objectives, associates indicators and GES targets and further development of the Offshore Monitoring Programme under the framework of IMAP is planned in biennium 2022-2023 and beyond (see <u>EP/MED</u> <u>WG.498/6</u>)

140. The **Protocol on Integrated coastal zone management in the Mediterranean (ICZM Protocol)** was adopted in 2008 and refers to the ecosystem approach. The Ecosystem Approach is especially pertinent and necessary in the management of coastal zones where multiple human activities and pressures on ecosystems cumulate. As such, EcAp appears as the guiding principal to the **ICZM Protocol** and the related planning of land and sea based marine activities, therefore including MSP implementation. An Action plan and a Common Regional Framework were adopted respectively in 2012 and 2019 totally integrating the ecosystem approach, IMAP ecological objectives, indicators and GES targets. ICZM is an essential tool for EcAp implementation in coastal areas.

- ✓ Action Plan for the implementation of the ICZM Protocol for the Mediterranean (2012-2019) (Decision IG. 20/2)
- ✓ Implementation of the Integrated Coastal Zone Management Protocol: Annotated Structure of the Common Regional Framework for Integrated Coastal Zone Management and Conceptual Framework for Marine Spatial Planning (Decision IG. 23/7) prepares the future CRF ICZM.
- \checkmark Common Regional Framework for Integrated Coastal Zone Management (Decision IG. 24/5) is a strategic instrument meant to facilitate the implementation of ICZM Protocol. It underlines the integrated approach of the ecosystem approach on which ICZM is based: Achieving Ecological Objectives (EOs) and GES requires an integrated approach in order to address combined pressures and cumulative impacts in coastal and marine areas. This approach is actually embedded in the ICZM Protocol, which provides for reaching GES with regard to the targets of all three clusters of EOs: Pollution and eutrophication; Biodiversity and fisheries; and Coast and hydrography. These are all crucial for achieving GES, and tools used by ICZM contribute to a more comprehensive approach looking at the integrity of coastal ecosystems. The document highlights the interrelations between EcAp, ICZM and MSP. A certain number of actions are planned to take place before 2027 including preparation of Guidelines to help implement ICZM at national level, development of additional coastal indicators to complete EO 8, highlighting the interaction between terrestrial and marine ecosystems and developing training sessions.
- ✓ The methodological guidance in three phases presented in CRF for ICZM is of special interest and proposes a methodology towards the identification of a set of

operational recommendations, if needed and as appropriate, which shall be calibrated on the specific considered geographic and temporal context, as well as on the cumulative impact integration rules, and regularly updated. The tool provides a basis for identifying the interrelation among drivers, pressures and responses. Given the fact that monitoring and assessment scales of IMAP must still be updated/agreed and tested, the semiquantitative scorecards methodology is considered useful to address driver-pressure state-impact assessments of complex processes, such as those occurring in the coastal zone.

✓ <u>MedOpen</u> implemented for several years by PAP/RAC are virtual courses that aim to assist Mediterranean countries in building capacities for coastal and sea management and is in line with the ecosystem approach.

141. Other Strategic Frameworks that have been developed or reviewed integrating the ecosystem approach and IMAP when pertinent.

- Regional strategy addressing ship's ballast water management and invasive species (Decision IG, 20/11) for EO 2 (NIS) updated with the Ballast Water Management Strategy for the Mediterranean Sea (2022-2027) (Decision IG, 25/17) which specifically has an objective to "contribute to the achievement of GES with respect to NIS as defined in IMAP". Based on the Guidance Document for the preparation of National Action Plans (NAPs) for theimplementation of the Regional Strategy for the Prevention of and Response to Marine Pollution from Ship (2016-2021) agreed upon by the Twelfth Meeting of the Focal Points of REMPEC, addressing Ecological Objectives (EO 2, EO 9, EO 10 and EO 11), with the aim to achieve/maintain GES on non-indigenous species, pollution, litter and underwater energy/noise respectively. In the biennium 2020-2021, the National Action Plan for the implementation of the Regional Strategy for Prevention of and Response to Marine Pollution from Ships (2016-2021) was completed by Egypt; similar plans had been developed by Albania, Montenegro, Morocco, Tunisia, and Türkiye.
- <u>Mediterranean Strategy for Sustainable Development 2016-2025 [MSSD]</u> (Decision IG. 22/2). The action 1.1.2 specifically targets the implementation of the EcAp Roadmap to achieve healthy marine ecosystems and conserve marine biodiversity.
- Regional Strategy for Prevention of and Response to Marine Pollution from Ships (2016-2021) (Decision IG. 22/4) updated with the Mediterranean Strategy for the Prevention of, Preparedness, and Response to Marine Pollution from Ships (2022-2031) (Decision IG. 25/16) is in relation with EO 2, EO 9 and EO 10 referred to in the guiding principles and streamlines ecosystem approach implementation at all levels. In the biennium 2020-2021, the National Action Plan for the implementation of the Regional Strategy forPrevention of and Response to Marine Pollution from Ships (2016-2021) was completed by Egypt; similar plans had been developed by Albania, Montenegro, Morocco, Tunisia, and Türkiye.
- Regional Action Plan on Sustainable Consumption and Production in the Mediterranean (2016-2021) (Decision IG. 22/5) followed the previous Regional Action Plan of the name (2005-2015) and specifically refers to IMAP ecological objectives EO 2, EO 9, EO 10 and EO 11.
- A <u>Memorandum of Understanding between UNEP/MAP and GFCM</u> was signed in 2012. Within the activities related to the areas of cooperation, there is the contribution to the implementation of a regional framework strategy based on the ecosystem approach and on agreed indicators and reference points, to monitor the status of marine environment and coastal ecosystems and that of marine living natural resources. This MoU is being regularly reviewed.

142. The large majority of the relevant action plans and programmes have been updated at regional and sub-regional level and concern the three clusters Biodiversity and fisheries, Pollution and marine litter, and Coast and hydrography. IMAP operational objectives and indicators for Pollution and marine litter cluster are well represented in National Action Plans.

143. The implementation of the Barcelona Convention and its Protocols is facilitated by technical Guidelines, prepared in close coordination with the Contracting Parties. These guidelines clarify and provide guidance on technical aspects of the implementation of the Protocols and Regional Plans and streamline the ecological objectives and GES targets. Guidelines for NAPs are also pertinent to implement national IMAPs. These guidelines are regularly updated. Some of these are the following:

- Numerous guidelines and tools have been developed by UNEP/MAP Components in line with the IMAP requirements. Concerning EO 1 and EO 2 many can be found on <u>SPA/RAC</u> website publication page.
- Global guidance for the implementation of the ecosystem approach through IMAP for EO 1, EO 2, EO 5, EO 7, EO 8, EO 9, EO 10 and EO 11 can be found in the <u>Integrated</u> <u>Monitoring and Assessment Guide</u>
- <u>Guidelines for updating National Action Plans for the implementation of the LBS Protocol and its Regional Plans in the framework of SAP MED to achieve Good Environmental Status for pollution related ECAP ecological objectives</u>
- <u>Revised Guidelines for the Conduct of Environmental Impact Assessment (EIA) under the</u> <u>Protocol for the Protection of the Mediterranean Sea against Pollution Resulting from</u> <u>Exploration and Exploitation of the Continental Shelf and the Seabed and its Subsoil</u>
- Guidelines: Adopt-a-Beach; Phase-out of Single Use Plastic Bags; Provision of Reception
 Facilities in Ports and the Delivery of Ship-Generated Wastes; Application of Charges at
 Reasonable Costs for the Use of Port Reception Facilities
- <u>Guidelines for Implementing the Marine Litter Regional Plan in the Mediterranean (Fishing for Litter Guidelines, Assessment Report, Baselines Values, and Reduction Targets)</u>

Participation to other relevant publications:

- Monitoring the incidental catch of vulnerable species in the Mediterranean and Black Sea fisheries. Methodology for data collection¹⁶.
- Identification guide of vulnerable species incidentally caught in Mediterranean fisheries¹⁷.

Gaps

144. The implementation of operational objectives, GES targets and indicators for the Biodiversity and fisheries cluster at national level are difficult to evaluate.

- 145. Implementation of National Action Plans still needs to be supported.
- 146. Regulation needs to be enforced at national level.

 ¹⁶ FAO. 2019. Monitoring the incidental catch of vulnerable species in Mediterranean and Black Sea fisheries: Methodology for data collection. FAO Fisheries and Aquaculture Technical Paper No. 640. Rome, FAO.
 ¹⁷ Otero, M., Serena F., Gerovasileiou, V.,Barone, M., Bo, M., Arcos, J.M., Vulcano A., Xavier, J. (2019). Identification guide of vulnerable species incidentally caught in Mediterranean fisheries. IUCN, Malaga, Spain, 204 pages.

147. In the Secretariat's Initial Gap Analysis on existing measures under the Barcelona Convention relevant to achieving or maintaining good environmental status of the Mediterranean Sea, in line with the Ecosystem Approach, 2014, it is stated that regarding coordinating and developing common tools to implement the biodiversity related NAPs, the SAP/BIO Analysis concluded that this priority action has not been implemented mainly because of the non-availability of financial resources. Although there has been recent progress (see Progress Report on Activities Carried Out during the 2020-2021 Biennium, <u>UNEP/MED IG.25/3</u>), implementation of biodiversity conservation policies, strategies and legislation measures needs strengthening at national level.

148. The Action Plans for the conservation of coralligenous and other calcareous bioconstructions, of Marine and Coastal Bird Species, of the monk seal, of marine turtles, of Cartilaginous Fishes (Chondrichtyans), of marine vegetation and dark habitats in the Mediterranean and concerning Species Introductions and Invasive Species, seem to be not fully transposed and implemented at national level. Work is being done to implement or update NAPs on Biodiversity and NIS for some species such as sea turtles.

149. The Regional Action Plans refer to the ecosystem approach and take in consideration IMAP indicators. Nevertheless interrelations between specific Regional Action Plans could be reinforced for a more integrated and coherent approach.

150. The implementation of operational objectives, GES targets and indicators related to fisheries (EO 3) at national level, depends on the GFCM. No updated document relating to the national state of implementation of EO 3 was found.

Recommendations

151. It could be recommended to strengthen exchanges and increase cooperation between UNEP/MAP and other key partners, especially GFCM regarding fisheries. Cooperation between SAPBIO and GFCM is strong concerning main aspects, i.e. bycatch of vulnerable species (see UNEP(DEPI)/MED WG.401/5), but there is room for strengthening this cooperation.

152. There has been an effort in assessing and strengthening interrelations between relevant Regional Action Plans and Guidelines, and such interrelations should be further reinforced to increase an ecosystem and integrated approach.

153. The Symposia organised by SPA/RAC on key habitats and NIS brings together scientists and stakeholders on the subjects and creates important exchanges. But there are very few presentations concerning APs such as monk seals, turtles, birds and sharks. Encouraging the participation of scientists from these groups could increase the comprehension of Mediterranean ecosystem functioning.

ANNEX I

References used for the evidenced-based evaluation of the EcAp roadmap (2008-2021) and contribution of the references to the implementation of each EcAp step

Table A: References used for the evidenced-based evaluation of the EcAp roadmap (2008-2021) and contribution of the references to the implementation of each EcAp step.

The implementation of the Ecosystem Approach Roadmap was evaluated by reviewing UNEP/MAP documents many of which were accessed through <u>the UNEP/MAP search meeting documents</u> and the <u>SPA/RAC list of main</u> meetings page.

First, all COP decision were reviewed since COP 15, 2008, date at which the Contracting Parties of the Barcelona Convention committed to the EcAp Roadmap (<u>Decision IG.17/6</u>).

The contextual introductions of the decisions were read and keywords were searched for in the documents. The keywords were: "EcAp", "Ecosystem approach", "IMAP", "ecological objective", "GES", "indicators", "monitoring", and "gaps".

The section of the decision including the keywords was read to evaluate if it concerned the Ecosystem Approach, which of the seven steps of the EcAp roadmap were concerned and to what degree. The decisions were then classified as:

- (i) not relevant to the EcAp roadmap and were not retained,
- (ii) compliant and in line with the EcAp roadmap,
- (iii) to contribute to the definition of part of the EcAp roadmap,
- (iv) or to contribute to the EcAp roadmap implementation.

The documents (ii) to (iv) were listed in the Annex I, Table A, and the relation to the specific EcAp roadmap steps indicated in the corresponding cell.

Secondly, documents and reports from CORMON, thematic Focal Points and EcAp Coordination Groups meetings since 2012 were assessed (since the adoption of UNEP/MED IG. 24/4 during COP 17). All documents relating to the implementation of the EcAp roadmap, of IMAP including Ecological Objectives and Common Indicators were listed in Annex I, Table A with associated information.

Other reports relative to the state of the Mediterranean Sea were searched for through <u>UNEP/MAP monitoring and</u> <u>assessment page</u> and considered in the evaluation.

To evaluate the implementation at a sub-regional and national level, the programmes and projects relevant to EcAp and to IMAP implementation were searched for through the <u>UNEP/MAP project page</u>, and the Compilation of Projects Fiches from 2017 to 2022 available on the same page was considered. All projects and programmes relative to EcAp implementation actions and especially to IMAP implementation were listed also under Annex I, Table A and the relation to the specific EcAp roadmap steps indicated.

Supplementary important reports that were consulted are also listed at the end of the table.

Table A: References used as evidence base in the evaluation of the EcAp roadmap (2008-2021) and their contribution in the implementation of each EcAp step. The relevance of the references to an EcAp roadmap step is indicated in the corresponding cell. (BC/BAC: Background (Assessment) Concentrations; BV: Baseline values, CI: Common Indicator, CCI: Candidate Common Indicator, CRF: Common Regional Framework, EAC: Environmental Assessment Criteria; EO: Ecological objective, GES: Good Environmental Status, ICZM: Integrated Coastal Zone Management, MSP: Marine Spatial Planning; TV: Threshold values)

References	Step I	Step II	Step III	Step IV	Step V	Step VI	Step VII					
		C	OP Decisions									
		COP 15, 2008	(UNEP(DEPI)/N	MED IG.17)								
IG.17/6 - Implementation of the ecosystem approach to the management of human activities that may affect the Mediterranean marine and coastal environment	Definition	Definition										
Conference of Plenipotentiaries on the Prot	ocol on Integ	grated Coastal 2	Zone Manageme	ent (ICZM) in t	he Mediterranean,	2008 (UNEP(DEPI)/MED	IG.18)					
IG.18/04 - Final Act (incl. Protocol) Protocol on Integrated Coastal Zone Management (ICZM) in the Mediterranean	In line	In line					In line with EcAp					
COP 16, 2009 (UNEP(DEPI)/MED IG.19)												
IG.19/17 - Decision on the adoption of the Five-Year Programme of Work and Programme Budget for the 2010-2011 biennium	In line	In line					In line with EcAp					
		COP 17, 2012	(UNEP(DEPI)/I	MED IG.20)	1							
IG.20/2 - Adoption of the Action Plan for the implementation of the ICZM Protocol for the Mediterranean (2012-2019)	In line	Contribution					In line with EcAp					
IG.20/4 - Implementing MAP ecosystem approach roadmap: Mediterranean Ecological and Operational Objectives, Indicators and Timetable for implementing the ecosystem approach roadmap	Definition	Definition		Definition	Definition and timetables for GES, targets and monitoring programmes							
IG.20/6 - Adoption of the Work Programme and Implementation <u>Timetable of the Action Plan for the conservation of marine</u> vegetation in the Mediterranean Sea for the period 2012-2017			(state of the art for marine vegetation)		F - 8		In line with EcAp					
IG.20/10 - Adoption of the Strategic Framework for Marine Litter management	In line	Contribution					EO 10					
IG.20/11 - Regional strategy addressing ship's ballast water management and invasive species	In line	Contribution					EO 2					
IG.20/14 - MAP Programme of Work and Budget for the 2012- 2013 biennium							Planned					
		COP 18, 2013	(UNEP(DEPI)/N	MED IG.21)	1							
IG.21/3 - Ecosystems Approach including adopting definitions of Good Environmental Status (GES) and targets	In line	In line		Further definition	Definition of targets and GES for the CI							

References	Step I	Step II	Step III	Step IV	Step V	Step VI	Step VII
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	In line	Contribution	Contribution				In line
IG.21/7 - Regional Plan on Marine Litter Management in the Mediterranean in the Framework of Article 15 of the Land Based Sources Protocol	In line	Contribution					In line with EO 10
		COP 19, 2016 (UNEP(DEPI)/	MED IG.22)			
IG.22/1 - UNEP/MAP Mid-Term Strategy 2016-2021	In line	Contribution					In line with EcAp Roadmap
IG.22/2 - Mediterranean Strategy for Sustainable Development 2016-2025 [MSSD]	In line	In line					In line with EcAp
IG.22/3 - Mediterranean Offshore Action Plan in the framework of the Protocol for the Protection of the Mediterranean Sea against Pollution resulting from Exploration and Exploitation of the Continental Shelf and the Seabed and its Subsoil	In line	Contribution					In line with EcAp Roadmap
IG.22/4 - Regional Strategy for Prevention of and Response to Marine Pollution from Ships (2016-2021)	In line	Contribution					In line with EcAp Roadmap
IG.22/5 - Regional Action Plan on Sustainable Consumption and Production in the Mediterranean	In line	Contribution					In line with EcAp Roadmap
IG.22/6 - Regional Climate Change Adaptation Framework for the Mediterranean Marine and Coastal Areas	In line	Contribution					
IG.22/7 - Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and Related Assessment Criteria	In line	In line		Further definition of EOs	Definition of IMAP indicators		
IG.22/10 - Implementing the Marine Litter Regional Plan in the Mediterranean (Fishing for Litter Guidelines, Assessment Report, Baselines Values, and Reduction Targets)	In line	In line				Contribution for EO 10	Marine litter
IG.22/11 - Mid-term Evaluation of the Action Plan for the Implementation of the ICZM Protocol for the Mediterranean (2012-2019)						Evaluation of EO 7 and 8, CI 15, 16 and CCI 25	
IG.22/12 - Updated Action Plans Concerning "Cetaceans", "Coralligenous and Other Calcareous Bioconcretions", and "Species Introductions and Invasive Species"; Mandate for update of the "Action Plan on Marine and Coastal Birds" and revision of the "Reference List of Marine and Coastal Habitat Types in the Mediterranean"	In line	Contribution					Updated in line with EO 1
IG.22/13 - Roadmap for a Comprehensive Coherent Network of Well-Managed Marine Protected Areas (MPAs) to Achieve Aichi Target 11 in the Mediterranean							In line with EcAp Roadmap
IG.22/20 - Programme of Work and Budget 2016-2017			Int	egrates regional ne	eds for IMAP impleme	ntation	

References	Step I	Step II	Step III	Step IV	Step V	Step VI	Step VII
IG.22/Inf.7 - Integrated Monitoring and Assessment Guidance	In line	In line			Monitoring and assessment guidelines for all EOs except EO 3, EO 4, EO 6	Monitoring and assessment guidelines	
	(COP 20, 2017	(UNEP(DEPI)/I	MED IG.23)			
IG.23/6: 2017 Mediterranean Quality Status Report			Contribution		Contribution to CI validation, achievements and gaps		
IG.23/7: Implementation of the Integrated Coastal Zone Management Protocol: Annotated Structure of the Common Regional Framework for Integrated Coastal Zone Management and Conceptual Framework for Marine Spatial Planning	In line	In line				Contribution for EO 5, 7, 8, 9, and 10	In line with EcAp Roadmap. Links with EOs and CRF for ICZM and MSP
IG.23/8 - Updated Action Plan for the Conservation of Marine and Coastal Bird Species listed in annex II to the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean - Updated Reference List of Marine and Coastal Habitat Types in the Mediterranean	In line	In line					Updated in line with EcAp Roadmap
IG.23/9 - Identification and Conservation of Sites of Particular Ecological Interest in the Mediterranean, including Specially Protected Areas of Mediterranean Importance	In line	In line					In line with EcAp Roadmap
IG.23/14 - Programme of Work and Budget for 2018–2019			Inte	egrates regional ne	eds for IMAP impleme	ntation	
	(COP 21, 2019	(UNEP(DEPI)/N	MED IG.25)			
IG.24/4 - Assessment Studies. 2019 Report on the State of the Environment and Development in the Mediterranean SoED 2019) Key messages and summary for decision makers			General state, main pressures and impact			Gaps in implementation	
IG.24/5 - Common Regional Framework for Integrated Coastal Zone Management	In line	Contribution					Links between EcAp, MSP and CRF for ICZM
IG.24/7 - Strategies and Action Plans under the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean, including the SAPBIO, the Strategy on Monk Seal, and the Action Plans concerning Marine Turtles, Cartilaginous Fishes and Marine Vegetation; Classification of Benthic Marine Habitat Types for the Mediterranean Region, and Reference List of Marine and Coastal Habitat Types in the Mediterranean	In line	Contribution				Contribute to enforce implementation of CI 1, 2, 3, 4, 5	Updated for EO 1

References	Step I	Step II	Step III	Step IV	Step V	Step VI	Step VII
IG.24/11 - Guidelines: Adopt-a-Beach; Phase-out of Single Use Plastic Bags; Provision of Reception Facilities in Ports and the Delivery of Ship-Generated Wastes; Application of Charges at Reasonable Costs for the Use of Port Reception Facilities		Contribution		In line with EO 10 Marine litter			
IG.24/12 - Updated Guidelines Regulating the Placement of Artificial Reefs at Sea		In line		In line			EcAp referred to
IG.24/14 - Programme of Work and Budget 2020-2021			Int	tegrates regional needs	s for IMAP implen	nentation	
		COP 22, 2021 (UNEP(DEPI)/	MED IG.25)			
IG.25/1 - UNEP/MAP Medium-Term Strategy 2022-2027	In line	Contribution	In line			Through the strategy objectives the implementation of all CI will be enhanced	
IG.25/3 - Progress Report on Activities Carried Out during the 2020-2021 Biennium						Progress on IMAP implementation at national level including Steering Committees through IMAP-MPA and other projects	
IG.25/5 - Amendments to Annexes I, II, and IV to the Protocol for the Protection of the Mediterranean Sea against Pollution from Land-Based Sources and Activities	In line	Contribution					Updated taking EcAp in consideration
IG. 25/6 - Amendments to the Annex to the Protocol for the Prevention and Elimination of Pollution of the Mediterranean Sea by Dumping from Ships and Aircraft or Incineration at Sea	In line	In line					Updated taking EcAp in consideration
IG.25/8 - Regional Plans on Urban Wastewater Treatment and Sewage Sludge Management in the Framework of Article 15 of the Land Based Sources Protocol	In line	Contribution					
IG.25/9 - Amendments to the Regional Plan on Marine Litter Management in the Mediterranean in the Framework of Article 15 of the Land Based Sources Protocol	In line	In line				Contributes to implement EO 10, CI 22	Update for EO 10, CI 22
IG.25/11 - Post-2020 Strategic Action Programme for the Conservation of Biodiversity and Sustainable Management of Natural Resources in the Mediterranean Region (Post-2020 SAPBIO)	In line	Contribution				Refinement and enforcement of EO 1 and 2, CI 1-6 through goal 3	In line with EO 1 and 2
IG.25/12 - Protecting and conserving the Mediterranean through well connected and effective systems of marine and coastal protected areas and other effective area-based conservation measures, including Specially Protected Areas and Specially Protected Areas of Mediterranean Importance	In line	In line					
IG.25/13 - Action Plans for the conservation of species and habitats under the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean	In line	In line					In line with EO 1
IG.25/15 - Guidelines for the Conduct of Environmental Impact Assessment (EIA) under the Protocol for the Protection of the Mediterranean Sea against Pollution Resulting from Exploration	In line	In line					In line with EO 9

References	Step I	Step II	Step III	Step IV	Step V	Step VI	Step VII
and Exploitation of the Continental Shelf and the Seabed and its Subsoil							
IG.25/16 - Mediterranean Strategy for the Prevention of, Preparedness, and Response to Marine Pollution from Ships (2022-2031)	In line	In line					In line with EO 9
IG.25/17 - Ballast Water Management Strategy for the Mediterranean Sea (2022-2027)	In line	In line					In line with EO 2, CI 6
IG.25/18 - Set of Regional Measures to Support the Development of Green and Circular Businesses and to Strengthen the Demand for more Sustainable Products	In line	In line					
IG.25/19 - Programme of Work and Budget for 2022-2023			Int	egrates regional ne	eds for IMAP impleme	ntation	
IG.25/26 - Overall Findings from the General Status of the Progress in the Implementation of the Barcelona Convention and its Protocols: Analysis of the Information Mentioned in the National Reports for the 2018-2019 Biennium						General information on the BC Protocols and IMAP implementation at national level	
IG.25/Inf.8 - General Status of the Progress in the Implementation of the Barcelona Convention and its Protocols: Analysis of the Information Mentioned in the National Reports for the 2018-2019 Biennium						Assessment of national monitoring programmes relative to IMAP and BC Protocols' requirements	
		COI	RMON meetin	gs			
Meeting of the Integrated Monitoring Correspondence Group. Athens, Greece, 30 March - 1 April 2015. UNEP(DEPI)/MED WG.411 especially UNEP(DEPI)/MED WG 411/3)				Elements for IMAP	Main elements for IMAP, clusters Biodiversity and Fisheries, Pollution and Litter, Coast and Hydrography		
Meeting of the Ecosystem Approach Correspondence Group on Pollution Monitoring Marseille (France), 19-21 October 2016. All documents UNEP(DEPI)/MED WG.427					nyuography	Draft guidance factsheets for EO 5 and 9, CI 13, 14, 17, 18, 19, 20, 21 and state of the art of MEDPOL indicators related to IMAP	
Meeting of the Ecosystem Approach Correspondence Group on Biodiversity and Fisheries Madrid (Spain), 28 February-1 March 2017. All documents UNEP(DEPI)/MED WG.430						Concerns EO 1, 2 and 3. Draft factsheets and guidelines for the preparation of the country specific EcAp monitoring programme for biodiversity and NIS	
Meeting of the Ecosystem Approach Correspondence Group on Marine Litter Monitoring Madrid (Spain), 28 February-2 March 2017. All documents UNEP(DEPI)/MED WG.429						Guidance factsheets for EO 10, CI 22, 23 CCI 24	
Meeting of the Ecosystem Approach Correspondence Group on Monitoring (CORMON) on Coast and Hydrography Madrid						Preparations of EO 7 and 8, CI 15, 16, CCI 25	

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(Spain), 3 March 2017. All documents UNEP(DEPI)/MED WG.433							
Meeting of the Ecosystem Approach Correspondence Group on Monitoring (CORMON) Biodiversity and Fisheries Marseille, France, 12-13 February 2019. All documents UNEP/MED WG.458						Gaps, monitoring protocols for EO 1 and 2, CI 3,4,5 and 6; DD/DS for CI 1, 2	
Meeting of the Ecosystem Approach Correspondence Group on Pollution Monitoring, Podgorica, Montenegro, 2-3 April 2019 <u>UNEP/MED WG.463</u>						Factsheets, monitoring protocols and approach on scales for CI 13, 14, 17, 18, 20 and 21; proposal of factsheets on CI 26 and 27; DD/DS for CI 13, 14, 17 and 21. Methodological approach for mapping interrelations between sectors EO 5, EO 9	
Joint Meeting of the Ecosystem Approach Correspondence Group on Marine Litter Monitoring and ENI SEIS II Assessment of Horizon 2020/National Action Plans of Waste Indicators Podgorica (Montenegro), 4-5 April 2019. All documents <u>UNEP/MED WG.464</u>						Progress of implementation of EO 10, CI 22, 23, CCI 24, proposed DD/DS and grid/table template for mapping pressure/impacts interactions for CI 22, 23	
Meeting of the Ecosystem Approach Correspondence Group on Monitoring (CORMON) Biodiversity and Fisheries Rome (Italy), 21-May 2019. All documents UNEP/MED WG.474						Monitoring protocols for EO 1, CI 1, 2 related to benthic habitats, 3, 4, 5 and 6 (EO 2); DD/DS for CI 1 and 2 benthic habitats and CI 6	
PAP/RAC Meeting of the Ecosystem Approach Correspondence Group on Monitoring (CORMON) on Coast and Hydrography, Rome, Italy, 21-22 May 2019. (See UNEP/MED WG.471/6) also UNEP/MED WG.471/Inf.3						Status of implementation at national level of EO 7 and 8, CI 15, 16	
Integrated Meetings of the Ecosystem Approach Correspondence Groups on IMAP Implementation (CORMONs) (Meeting 1-3 December 2020). All meeting documents UNEP/MED WG. 482 and in particular UNEP/MED WG 482/25 on the Comparative Analysis Undertaken with regard to IMAP and the European Commission GES Decision 2017/848/EU for Biodiversity						Concerns EO 1, 2, 5, 9 and 10. Monitoring guidelines for CI 1, 2, 6, 13, 14, 17, 20, 23. Revised guidance factsheets for CI 6 and 19; DD/DS for CI 3,4 and 5 for marine mammals, turtles and birds (draft); Baseline values CI 22. Also gaps underlined for EO 1 in comparison with MSFD in document WG.482/25)	
Meeting of the Ecosystem Approach Correspondence Group on Monitoring (CORMON), Marine Litter (Meeting 30 March 2021) (see UNEP/MED WG.514/Inf.4 and documents UNEP/MED WG.490/3, UNEP/MED WG.490/4, UNEP/MED WG.490/5, UNEP/MED WG.490/6)				EO 10	BV and proposed TV for CI 22	Monitoring guidelines for CI 23 for floating microplastics, Pressure analysis for CI 22 and 23, Comparative Analysis Undertaken with regards to IMAP	Regional Operational Strategy for Monitoring CCI 24, Addendum to

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						and the EC New GES Decision 2017/848/EU for Marine Litter	the MED POL Beach Marine Litter Item List and their DS and DD to include Two New COVID- 19 Related Items (Single- Use Plastic Masks & Gloves)
Meeting of the Ecosystem Approach Correspondence Groups on Monitoring (CORMON), Pollution (Meeting 26-28 April 2021), see_UNEP/MED WG.492/9, UNEP/MED WG.492/10 and UNEP/MED WG.492/Inf.9						Review of Monitoring Guidelines/Protocols for IMAP for CIs 13, 14, 17, 18 and 20; laboratory practices for EO 5 and 9, rules for integration of monitoring and assessment areas for EO 5, EO 9, EO 10. Assessment of the Capacities of National Laboratories responsible for Monitoring of IMAP Common Indicators 13, 14, 17, 18 and 20. State of Play of Inter- laboratory Testing and Good Laboratory Practice related to IMAP Ecological Objectives 5 and 9	
Meeting of the Ecosystem Approach Correspondence Groups on Monitoring (CORMON), Biodiversity and Fisheries (Meeting 10-11 June 2021) (see UNEP/MED WG.514/Inf.06) and also <u>UNEP/MED WG.500/10</u> on methodological approach of mapping interaction Pressures/Impacts/Status of ecosystems						Concerning EO 1 and 2. Monitoring guidelines for CI 1, 2 on benthic habitats; Assessment scales and criteria, thresholds and baseline values for CI 3, 4 and 5 for marine mammals; revised guidance factsheets, assessment scales and criteria, threshold values and proposed baseline values for CI 6; DD/DS for CI 3,4 and 5) Also relation Pressures/ CI 1-5 and methodology	
Meeting of the Ecosystem Approach Correspondence Group on Monitoring (CORMON) Biodiversity and Fisheries (Meeting 28-29 March 2022). All meeting documents UNEP/MED WG.520					Concerning EO 1 and 2. Assessment scales, criteria, threshold and baseline values for	Concerning EO 1 and 2. DD and DS for CI 3, CI 4, CI 5 related to marine mammals, turtles and birds; baseline values for CI 6	

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					CI 3, CI 4, CI 5, related to birds		
Meeting of the Ecosystem Approach Correspondence Group on Pollution Monitoring (Videoconference, 27 and 30 May 2022) (see documents UNEP/MED WG.533/3, <u>UNEP/MED</u> <u>WG.533/4</u> , <u>UNEP/MED WG.533/5</u> , <u>UNEP/MED WG.533/6</u> , <u>UNEP/MED WG.533/7</u> and <u>UNEP/MED WG.533/8</u>					related to birds Assessment criteria (BC/BAC) for CI 13 (Adriatic sub- region) and 17 and (EAC) for CI 17, 18 and 20, Threshold values for CI 13 Adriatic sub-region. Threshold GES/nonGES values for CI 17 (Adriatic subregion) use of NEAT approach. Proposition of threshold values for Levantine basin using CHASE+ and traffic light approach.	DS and DD for CI 18 and CI 20	
Meeting of the MED POL Focal Points (Videoconference, 27-28 May and 6-7 October 2021)					Proposed monitoring guidelines for CI 13, 14, 17, 18 and 20		
	Then	natic Focal Poi	int and other tl	nematic meeting	gs		
Tenth Meeting of Focal Points for SPAs (Marseilles, France, 17 - 20 May 2011)			Sub-regional reports for the 4 sub-regions				
Integrated Correspondence Groups of GES and Targets Meeting Athens (Greece), 17-19 February 2014. UNEP(DEPI)/MED WG.390				Development of EOs' CI	Identification and definition of Common Indicators		
MED POL Focal Points Meeting Malta, 16-19 June 2015 especially UNEP(DEPI)/MED WG.417/06				Elements and guidance for EO 5, EO 9, EO 10	Elements for CI 7, 8, 11, 12, 13, 14, 15, 16, 17, CCI 24		
Twelfth Meeting of Focal Points for Specially Protected Areas, Athens (Greece), 25-29 May 2015. Especially UNEP(DEPI)/MED WG.408/5 on initial gap analysis on existing measures under the Barcelona Convention relevant to				Relations between EOs and existing measure and	Relations between operational objectives and existing measure		

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achieving or maintaining good environmental status of the Mediterranean Sea, in line with the Ecosystem Approach				assessment of gaps	and assessment of gaps		
Regional Meeting on NAPs Implementation – Lessons learned and the way forward Marseille (France), 17-18 October 2016, UNEP(DEPI)/MED WG.426 especially UNEP(DEPI)/MED WG.426/3			Identification of national hotspots with regard to EO 5, EO 9 and EO 10		Progress in implementing common operational targets in NAPs for EO 5, EO 9 and EO 10		Progress in implementing common operational targets in NAPs for EO 5, EO 9 and EO 10
Meeting of the MED POL Focal Points, 2017. IMAP Common Indicator Guidance Facts Sheets (Pollution and Marine Litter) (UNEP(DEPI)/MED WG.439/12)						Concerning EO 5, 9 and 10. Guidance factsheets for CI 13, CI 14, CI 17, CI 18, CI 19, CI 20, CI 21, CI 22, CI 23, CCI 24	
Regional Meeting on IMAP Implementation: Best Practices, Gaps and Common Challenges Rome (Italy), 10-12 July 2018 and especially <u>UNEP/MED WG.450/3 and UNEP/MED</u> WG.450/7						Progress of IMAP national implementation	
Meeting of the MED POL Focal Points Istanbul (Turkey), 29-31 May 2019. UNEP/MED WG.473						Concerning EO 5, 9, 10. Updated guidance factsheets for CI 13, CI 14, CI 17, CI 18, CI 20, CI 21, new proposals for CI 26, CI 27; DD/DS for CI 13, 14, 17, 21, 22, 23	
Thirteenth Meeting of the Focal Points of the Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC) Malta, 11-13 June 2019. REMPEC/WG.45/08					Draft Guidance factsheet for EO 9, CI 19		
Fourteenth Meeting of SPA/BD Thematic Focal Points, Portorož, Slovenia, 18-21 June 2019. All document UNEP/MED WG.461						For EO 1, 2, 10. CI 1, CI 2, CCI 24; regional and national implementation of CI 6; Guidelines for monitoring CI 1, 2, 3, 4, 5, 6; DD/DS for CI 6	
Meeting of the MAP Focal Points Athens, Greece, 10-13 September 2019. Document UNEP/MED WG.468/3						Progress report and projects on IMAP implementation at sub- regional and national level	
Fourteenth Meeting of the Focal Points of the Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC) 31 May - 2 June 2021 ; Document REMPEC/WG.51/6						EO 2, CI 6, revision of FS for CI 6 and 19	
15th Meeting of SPA/BD Thematic Focal Points 23-25 June 2021; and especially UNEP/MED WG.502/16Rev.1, UNEP/MED WG.502/Inf.10 and UNEP/MED WG.502/Inf.4						Support of implementation at national level and gaps related to the implementation of CI 1-4.	Comparison of CI 1-5 to MSFD descriptors
	·	EcAp (Coordination G	roup			

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4th Meeting of the EcAp Coordination Group Athens (Greece), 9-10 October 2014. Documents UNEP(DEPI)/MED WG.401/3 and UNEP(DEPI)/MED WG.401/5 and UNEP(DEPI)/MED WG.401/5 WG.401/7			Scoping study of the assessment of marine environmental degradation costs (WG. 401/7)			Draft monitoring and assessment methodological guidance and relations with other existing measures			
6th Meeting of the Ecosystem Approach Coordination Group (Meeting 11 September 2017). All documents UNEP(DEPI)/MED WG.444						Concerning EO 1, EO 5, EO 7, EO 8, EO 9. Guidance Factsheets for CI 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 and CCI 24, 25			
Midterm review of the implementation of the Ecosystem Approach Roadmap, 2017. UNEP(DEPI)/MED WG.444/04			Review	Review	Review	Review	Review		
7th Meeting of the Ecosystem Approach Coordination Group (Meeting 9 September 2019). UNEP/MED WG.467 8 th Meeting of the Ecosystem Approach Coordination Group (Meeting 9 September 2021). All documents UNEP/MED WG. 514					Information for CCI 24, new proposal for CCI 26 and 27	Concerning EO 1, EO 5, EO 6, EO 7, EO 8, EO 9, EO 10, EO 11. Guidance Factsheets updates for CI 13, 14, 17, 18, 20 and 21,; Guidance Factsheets for CI 15, 16 and 25; DD/DS for CI 1, 2, 6, 13, 14, 15, 16, 17, 21, 22, 23,; Monitoring protocols for CI 1, 2, 3, 4, 5, 6. IMAP SPI development Concerning EO 1, EO 2, EO 5, EO 9, EO 10. Assessment scales and criteria, thresholds and baseline values for CI 3, 4 and 5 for marine mammals, turtles; baseline values and proposed threshold values for CI 22; BC/BAC for CI 17 and EAC for CI 17, 18 and 20; assessment criteria for CI 13 (pilot application Adriatic); revised guidance factsheets for CI 6; DS and DD for CI 18, 20.			
Status of IMAP implementation per Common Indicator and per Contracting Party (December 2020 – February 2021). (See						CI status of implementation national level			
<u>UNEP/MED WG.514/Inf.08).</u> 9th Meeting of the Ecosystem Approach Coordination Group (Videoconference), 5-Jul-22 especially UNEP/MED WG.521/3	Concept note on evaluating implementation and renewing UNEP/MAP's Ecosystem Approach								
Main projects involving UNEP/MAP or MAP components									
MAP Coastal Area Management Programmes (CAMPs)	In line	Contribution							

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MedKeyHabitats Project : Project on Mapping of key marine habitats in the Mediterranean and promoting their conservation through the establishment of Specially Protected Areas of Mediterranean Importance (SPAMIs) (2013-2016)	In line	In line	Knowledge acquisition			Contributed to implement CI 1 for key habitats in specific areas of Algeria, Libya, Montenegro, Morocco and Tunisia	
MedKeyHabitats II Project : Mapping of marine Key habitats and assessing their vulnerability to fishing activities in the Mediterranean (2017-2019)	In line	In line	Knowledge acquisition			Contributed to implement CI 1 for key habitats in specific areas of Algeria, Cyprus, Malta, Tunisia, Türkiye and Morocco	
MedPartnership (2009-2015)	In line	Contribution				Contributed to implement CI 1 for key habitats in specific areas of Albania, Croatia, Libya, Morocco, Lebanon and Tunisia.	
Deep Sea Lebanon project (2016-2018)			Knowledge acquisition in Lebanese deep sea			Contributed to implement OE 6 in Lebanon	
SIMWESTMED: Supporting Implementation of Maritime Spatial Planning in the Western Mediterranean Region (2017-2018)	In line	In line				Contributed to feed work on EcAp for Western Mediterranean Region (France, Italy, Malta, Spain)	
SUPREME: SUpporting maritime spatial Planning in the Eastern MEditerranean (2017-2018)	In line	In line				Contributed to feed work on EcAp for Eastern Mediterranean Region (Croatia, Greece, Italy and Slovenia)	
CO-EVOLVE : Promoting the Co-evolution of Human Activities and Natural Systems for the Development of Sustainable Coastal and Maritime Tourism (2016-2019)	In line	In line			Contributed to feed coastal indicators		
Towards an ecologically representative and efficiently managed network of Mediterranean Marine Protected Areas MedMPA Network project (2016-2019)	In line	Contribution	In MPAs in Algeria, Egypt, Lebanon, Morocco and Tunisia			Contributed to implement CI 1 for key habitats in specific areas of Lebanon and Egypt	
Marine Litter MED project (2016-2019)		Contribution			Progress for defining CCI 24	Indirect implementation for EO 10 in Algeria, Egypt, Israel, Lebanon, Libya, Morocco and Tunisia	
Kuriat Project : Supporting the management of the marine and coastal protected area of the Kuriat Islands (Tunisia) (2017- 2019)	In line	In line				Implementation for EO 1 indicators in the Kuriat islands MPA	
ODYSSEA Project : Operating a network of integrated observatory systems in the Mediterranean Sea (2017-2021)	In line	In line				Cooperation in North African countries for EO 1 and EO 2	

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QUIETMED2 Project : Joint Programme for GES assessment on D11-noise in the Mediterranean Marine Region (2019-2021)				Contribution to define EO 11 in parallel with MSFD D11	Contribution to define EO 11 indicators in parallel with MSFD D11		
The GEF-UNEP "Mediterranean Sea Programme (MedProgramme): Enhancing Environmental Security" (2020-2025)	Contributio n	Contribution					
GEF Adriatic: implementation of Ecosystem Approach in the Adriatic Sea through Marine Spatial Planning (GEF Adriatic) (2017-2020), see also Results and achievements of GEF Adriatic Project, and publications on Ecosystem approach and Marine Spatial Planning, Integrated Monitoring Programme for Albania and Montenegro, the Pan Adriatic Scope Report and other publication available at https://www.adriatic.eco/publications/						Integrated monitoring programme in Montenegro and Albania	
EcAp MED I: An economic and social analysis of uses, prior to their better management (2012-2015)	In line				Definition of targets, GES and indicators		
EcAp MED II: Implementation of the Ecosystem Approach in the Mediterranean, in coherence with the EU MSFD (2015- 2019)	In line	In line				National monitoring programmes developed for IC 1, 2, 3, 4, 5 and 6 for <u>Algeria</u> , <u>Egypt</u> , <u>Israel</u> , <u>Libya</u> , <u>Lebanon</u> , <u>Morocco</u> and <u>Tunisia</u>) (Support and capacity building through output 1 and 2 for the implementation process of EO 1, EO 2, EO 7, EO 10 in Algeria, Egypt, Israel, Libya, Lebanon, Morocco and Tunisia	
EcAp-MED III: Support to Efficient Implementation of the Ecosystem Approach-based Integrated Monitoring and Assessment of the Mediterranean Sea and Coasts and to delivery of data-based 2023 Quality Status Report in synergy with the EU MSFD" (2020-2023)	In line	In line	Contribution			Boost implementation, help define scale, harmonized methods at regional, sub regional and national level	
MEDREGION project. Support Mediterranean Member States towards the implementation of the Marine Strategy Framework Directive Good Environmental Status (GES) Decision and programmes of measures and contribute to regional/subregional cooperation	In line	In line					Development of cooperation and coordination with EU countries through MSFD
IMAP-MPA project "Towards achieving the Good Environmental Status of the Mediterranean Sea and Coast through an Ecologically Representative and Efficiently Managed and Monitored Network of Marine Protected Areas" (2019-	In line	In line				Gap identification, supporting and implementation of IMAP through Component 1 for MPA management at regional, sub	

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2023) (also see document <u>UNEP/MED WG.482/Inf.3, 2020</u> and <u>UNEP/MED WG. 524/2</u>)						regional and national level for beneficiary countries: Algeria, Egypt, Israel, Jordan, Lebanon, Libya, Morocco, Palestine and Tunisia.	
The GEF MedProgramme, enhancing environmental security. Seven child programmes (2020-2024)	In line	In line				Transboundary approach for EO 9 CIs for Child Project 1.1	
Marine Litter MED II project phase I (2016-2019) and phase II (2020-2023) (EU funded project)	In line	In line			Development of EO 10	Development of CCI 24	
Bycatch Project. <u>Understanding Mediterranean multi-taxa</u> <u>'bycatch' of vulnerable species and testing mitigation- a</u> <u>collaborative approach</u>					Development of EO 1 and 3	Contributed to implement CI 3,4,5,12	
Conservation of Marine Turtle in the Mediterranean (MAVA funded project)						Contributed to implement CI 3, 4, 5.	
		Other	relevant docum	ents			1
<u>Mangos, A., Bassino, J-P., Sauzade, D. (2010). The</u> economic value of sustainable benefits rendered by the <u>Mediterranean</u> <u>marine ecosystems. Plan Bleu, Valbonne. (Blue Plan Papers</u> 8).			Contribution				
<u>OJ.</u> The Mediterranean Sea Biodiversity: state of the ecosystems, pressures, impacts and future priorities (UNEP-MAP, RAC/SPA, 2010)			Contribution				
Initial integrated assessment of the Mediterranean Sea: fulfilling step 3 of the ecosystem approach process, 2011. (UNEP(DEPI)/MED WG.363/Inf.21)			Contribution				
State of the Mediterranean Marine and Coastal Environment (UNEP/MAP – Barcelona Convention, 2012)			Contribution				
Plan Bleu, ACTeon (2014), Scoping study for the assessment of the costs of degradation of the Mediterranean marine ecosystems, Technical Report, Plan Bleu, Valbonne,	In line	In line	Evaluation of the costs of pressures				
Plan Bleu (2014), Economic and social analysis of the coastal and marine waters in the Mediterranean, characterization and impacts of the Fisheries, Aquaculture, Tourism and recreational activities, Maritime transport and Offshore extraction of oil and gas sectors, Technical Report, Plan Bleu, Valbone	In line	In line	Economic and social analysis contributing to the Initial Integrated Assessment				
Marine Litter Assessment in the Mediterranean 2015			Impact of marine litter		Proposed baseline values for EO 10		
UNEP/MAP (2015), Strategic Action Programme to Address Pollution from Land Based Activities in the Mediterranean region (SAP-MED) and National Action Plans' (NAP) implementation 2000 – 2015, Athens.							NAPs implementatio n concern EO 5, 9 and 10

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Plan Bleu (2016). Economic assessment of ecosystem services provided by Mediterranean wetlands in terms of climate regulation. Plan Bleu, Valbonne			Ecosystem services				
Joint Workshop on Science Policy Interface (SPI) strengthening and Ecosystem Approach Coordination Group Meeting on IMAP scales of monitoring and assessment, including the next QSR. Report, 2017						Work on geographical and temporal scales of monitoring and assessment of indicators and relation to SPI/IMAP, underlined science gaps and policy needs in implementation	
2017 Mediterranean Quality Status Report			Contribution		Contribution to CI validation, identification of achievements and gaps		
Reports on national monitoring programmes for biodiversity and NIS in Algeria, Egypt, Israel, Lebanon, Libya, Morocco and Tunisia						NAP for EO 1 and EO 2 for Egypt, Israel, Lebanon, Libya, Morocco and Tunisia	
Evolution of built-up area in coastal zones of Mediterranean countries between 1975 to 2015 document presented during the EcAp CORMON meeting on hydrography, May 2019 (UNEP/MED WG.471/Inf.3)			Contribution		Information for CCI 28		
PAP/RAC - Institute of Water of the Republic of Slovenia (2019), EO8 Coastal Ecosystems and Landscapes Common Indicator 16 - Length of coastline subject to physical disturbance due to the influence of manmade structures – Slovenia.						Implementation of CI 16	
<u>Climate and Environmental Change in the Mediterranean Basin</u> <u>– Current Situation and Risks for the Future. First Mediterranean</u> Assessment Report (MedECC, 2020)			Contribution				
Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (2021). Study on trends and outlook of marine pollution from ships and activities and of maritime traffic and offshore activities in the Mediterranean, Floriana			Contribution for EO 2, EO 10, EO 11		Information for EO 2, 10 and 11: CI 6, CI22, CCI 26 and CCI 27		
Integrated Monitoring Programme – Montenegro (UNEP/MAP- PAP/RAC-SPA/RAC and MESPU, 2021).						Defining the national monitoring programme in Montenegro	
Integrated Monitoring Programme – Albania (UNEP/MAP- PAP/RAC-SPA/RAC, MET and NAPA, 2021).						Defining the national monitoring programme in Albania	
Pan Adriatic Scope. Adriatic-Ionian cooperation towards MSP (no date)						Transboundary cooperation for harmonised MSPs	
FAO. (2019). Monitoring the incidental catch of vulnerable species in Mediterranean and Black Sea fisheries: Methodology for data collection (p. 81) [FAO Fisheries and Aquaculture Technical Paper N°640]. Rome: FAO.						CI 12	
Guidelines for the assessment of environmental impact on coralligenous and maërl assemblages							Synthesis of regulation in Mediterranean

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							countries and protocol
Guidelines for inventorying and monitoring of Dark Habitats (UNEP(DEPI)/MED WG.431/Inf.12					Guidelines for EO 1		

ANNEX II

Data Dictionaries/Data Standards, Assessment Criteria, Threshold Values, Baseline Values, Guidance Factsheets, Guidelines and Monitoring Protocols available or in progress for each IMAP Common Indicator (CI) or Candidate Common Indicator (CCI)

 Table B: Data Dictionaries/Data Standards, Assessment Criteria, Threshold Values, Baseline Values, Guidance Factsheets, Guidelines and Monitoring

 Protocols available or in progress for each IMAP Common Indicator (CI) or Candidate Common Indicator (CCI).

EO	Common Indicator s and CCIs	Data Dictionaries/ Data standards	Monitoring and Assessment Scales	Assessment Criteria	Thresholds Values	Baseline Values	Guidance Factsheets	Guidelines and Monitoring Protocols
	1	<u>UNEP/MED</u> <u>WG.467/9</u>					UNEP(DEPI)/MED WG.444/6/Rev.1	UNEP/MED WG.467/16; UNEP/MED WG.482/20 (updated for marine veg. And other calcareous bioconstructions); <u>UNEP/MED WG.500/3</u> (benthic habitats review); <u>UNEP/MED</u> <u>WG.502/Inf.4</u> (Interpretation Manual of Marine Habitat Types in the Mediterranean Sea)
EO 1	2	<u>UNEP/MED</u> <u>WG.467/9</u>					UNEP(DEPI)/MED WG.444/6/Rev.1	UNEP/MED WG.467/16; UNEP/MED WG.500/3 (benthic habitats review); UNEP/MED WG.502/Inf.3 (Guidelines for the assessment of environmental impact on coralligenous and maërl assemblages); UNEP/MED WG.502/Inf.4 (Interpretation Manual of Marine Habitat Types in the Mediterranean Sea)

EO	Common Indicator s and CCIs	Data Dictionaries/ Data standards	Monitoring and Assessment Scales	Assessment Criteria	Thresholds Values	Baseline Values	Guidance Factsheets	Guidelines and Monitoring Protocols
	3 marine mammals	UNEP/MED WG.482/22; <u>UNEP/MED</u> WG.520/6 (updated)	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.514/Inf.1</u>	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.514/Inf.1</u>	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.514/Inf.1</u>	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.514/Inf.1</u>	<u>UNEP(DEPI)/MED</u> <u>WG.444/6/Rev.1</u>	<u>UNEP/MED WG.467/16</u>
	3 marine birds	UNEP/MED WG.482/22; <u>UNEP/MED</u> WG.520/8 (updated)	<u>UNEP/MED</u> WG.521/Inf.7	<u>UNEP/MED</u> WG.521/Inf.7	UNEP/MED WG.521/Inf.7	<u>UNEP/MED</u> WG.521/Inf.7	UNEP(DEPI)/MED WG.444/6/Rev.1	<u>UNEP/MED WG.467/16</u>
	3 marine reptiles	UNEP/MED WG.482/22; <u>UNEP/MED</u> WG.520/7 (updated)	UNEP/MED WG.500/5; <u>UNEP/MED</u> WG.514/Inf.12	UNEP/MED WG.500/5; <u>UNEP/MED</u> WG.514/Inf.12	UNEP/MED WG.500/5; <u>UNEP/MED</u> WG.514/Inf.12	UNEP/MED WG.500/5; <u>UNEP/MED</u> WG.514/Inf.12	<u>UNEP(DEPI)/MED</u> <u>WG.444/6/Rev.1</u>	<u>UNEP/MED WG.467/16</u>
	4 marine mammals	UNEP/MED WG.482/22; <u>UNEP/MED</u> WG.520/6 (updated)	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Appendix B</u>	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Appendix B</u>	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Appendix B</u>	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Appendix B</u>	<u>UNEP(DEPI)/MED</u> <u>WG.444/6/Rev.1</u>	<u>UNEP/MED WG.467/16</u>
EO 1	4 marine birds	UNEP/MED WG.482/22; <u>UNEP/MED</u> WG.520/8 (updated)	UNEP/MED WG.467/16; <u>UNEP/MED</u> <u>WG.520/4</u>	<u>UNEP/MED</u> <u>WG.520/4</u>	<u>UNEP/MED</u> <u>WG.520/4</u>	<u>UNEP/MED</u> <u>WG.520/4</u>	UNEP(DEPI)/MED WG.444/6/Rev.1	<u>UNEP/MED WG.467/16</u>
	4 marine reptiles	UNEP/MED WG.482/22; <u>UNEP/MED</u> WG.520/7 (updated)	UNEP/MED WG.500/5; <u>UNEP/MED</u> WG.502/16 <u>Rev.1.Appendix</u> <u>C. Rev.1</u> (Refinement)	UNEP/MED WG.500/5; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Rev.1.Appendix C.</u> <u>Rev.1</u> (<u>Refinement)</u>	UNEP/MED WG.500/5; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Rev.1.Appendix</u> <u>C. Rev.1</u> (Refinement)	UNEP/MED WG.500/5; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Rev.1.Appendix</u> <u>C. Rev.1</u> (Refinement)	UNEP(DEPI)/MED WG.444/6/Rev.1	<u>UNEP/MED WG.467/16</u>

EO	Common Indicator s and CCIs	Data Dictionaries/ Data standards	Monitoring and Assessment Scales	Assessment Criteria	Thresholds Values	Baseline Values	Guidance Factsheets	Guidelines and Monitoring Protocols
	5 marine mammals	UNEP/MED WG.482/22 (DD/DS); <u>UNEP/MED</u> <u>WG.520/6 (updated)</u>	UNEP/MED WG.467/16; UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Appendix B</u>	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Appendix B</u>	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Appendix B</u>	UNEP/MED WG.500/4; <u>UNEP/MED</u> <u>WG.502/16</u> <u>Appendix B</u>	<u>UNEP(DEPI)/MED</u> <u>WG.444/6/Rev.1</u>	<u>UNEP/MED WG.467/16</u>
	5 marine birds	UNEP/MED WG.482/22; <u>UNEP/MED</u> <u>WG.520/8 (updated)</u>	UNEP/MED WG.520/4	<u>UNEP/MED</u> <u>WG.520/4</u>	UNEP/MED WG.520/4	UNEP/MED WG.520/4	UNEP(DEPI)/MED WG.444/6/Rev.1	<u>UNEP/MED WG.467/16</u>
	5 marine reptiles	UNEP/MED WG.482/22; <u>UNEP/MED</u> WG.520/7 (updated)	UNEP/MED WG.500/5 (Refinement); <u>UNEP/MED</u> <u>WG.502/16</u> <u>Rev.1.Appendix</u> <u>C. Rev.1</u> (Refinement)	UNEP/MED WG.500/5 (Refinement); <u>UNEP/MED</u> <u>WG.502/16</u> <u>Rev.1.Appendix C.</u> <u>Rev.1</u> (Refinement)	UNEP/MED WG.500/5 (Refinement); <u>UNEP/MED</u> <u>WG.502/16</u> <u>Rev.1.Appendix</u> <u>C. Rev.1</u> (Refinement)	UNEP/MED WG.500/5 (Refinement); <u>UNEP/MED</u> <u>WG.502/16</u> <u>Rev.1.Appendix</u> <u>C. Rev.1</u> (Refinement)	UNEP(DEPI)/MED WG.444/6/Rev.1	<u>UNEP/MED WG.467/16</u>
EO 2	6	<u>UNEP/MED</u> <u>WG.467/9</u>	UNEP/MED WG.500/7; UNEP/MED WG.502/16.App endix E; <u>UNEP/MED</u> <u>WG.520/Inf.3</u>	UNEP/MED WG.500/7; UNEP/MED WG.502/16.Appen dix E; <u>UNEP/MED</u> <u>WG.520/Inf.3</u>	UNEP/MED WG.500/7; UNEP/MED WG.502/16.App endix E; <u>UNEP/MED</u> <u>WG.520/Inf.3</u>	UNEP/MED WG.500/8; UNEP/MED WG.520/6; <u>UNEP/MED</u> WG.520/Inf.3 <u>Also see</u> <u>Baseline for the</u> <u>IMAP CI 6</u> <u>UNEP/MED</u> <u>WG.521/Inf.8</u>	UNEP(DEPI)/MED WG.444/6/Rev.1 ; UNEP/MED WG.482/21; UNEP/MED WG.500/6 (revised); <u>UNEP/MED WG.</u> <u>514/10</u>	<u>UNEP/MED WG.467/16</u>
ыC	7						UNEP(DEPI)/MED WG.444/6/Rev.1	

EO	Common Indicator s and CCIs	Data Dictionaries/ Data standards	Monitoring and Assessment Scales	Assessment Criteria	Thresholds Values	Baseline Values	Guidance Factsheets	Guidelines and Monitoring Protocols
	8						UNEP(DEPI)/MED WG.444/6/Rev.1	
	9						UNEP(DEPI)/MED WG.444/6/Rev.1	
	10						UNEP(DEPI)/MED WG.444/6/Rev.1	
	11						UNEP(DEPI)/MED WG.444/6/Rev.1	
	12						UNEP(DEPI)/MED WG.444/6/Rev.1	
E0 4								
EO 5	13	<u>UNEP/MED</u> <u>WG.467/8;</u> <u>UNEP/MED</u> <u>WG.473/8</u>		UNEP/MED WG.492/Inf.9 ; UNEP/MED WG.533/4 (for Adriatic sub- region)	UNEP/MED WG.533/4 (for Adriatic sub- region)		UNEP(DEPI)/MED WG.444/5; UNEP/MED WG.463/04; <u>UNEP/MED</u> <u>WG.467/5;</u> <u>UNEP/MED</u> <u>WG.473/07</u> (updated);	UNEP/MED WG.463/6; <u>UNEP/MED WG.482/05</u> (sampling); UNEP/MED <u>WG.482/08 (key</u> <u>nutrients in seawater-</u> <u>Nitrogen compounds);</u> <u>UNEP/MED WG.482/09</u> (Phosphorus and silica <u>compounds);</u> <u>UNEP/MED WG.509/32</u> and <u>UNEP/MED</u> <u>WG.509/33</u>

EO	Common Indicator s and CCIs	Data Dictionaries/ Data standards	Monitoring and Assessment Scales	Assessment Criteria	Thresholds Values	Baseline Values	Guidance Factsheets	Guidelines and Monitoring Protocols
	14	<u>UNEP/MED</u> <u>WG.467/8;</u> <u>UNEP/MED</u> <u>WG.473/8</u>		UNEP/MED WG.492/Inf.9			UNEP(DEPI)/MED WG.444/5; UNEP/MED WG.463/04; <u>UNEP/MED</u> <u>WG.467/5;</u> <u>UNEP/MED</u> <u>WG.473/07</u> (updated)	UNEP/MED WG.463/6; <u>UNEP/MED WG.482/05</u> (sampling); UNEP/MED WG.482/10 (Chlorophyll <u>a in seawater);</u> <u>UNEP/MED WG.509/32</u> and <u>UNEP/MED</u> <u>WG.509/33</u>
EO 6								
E0 7	15	<u>UNEP/MED</u> <u>WG.467/10</u>		<u>Guidance</u> <u>document on how</u> <u>to reflect changes</u> <u>in hydrographical</u> <u>conditions in</u> <u>relevant</u> <u>assessments</u>			<u>UNEP(DEPI)/MED</u> WG.444/07; <u>UNEP/MED</u> <u>WG.467/6</u>	<u>UNEP/MED WG.482/06</u> (physical); <u>UNEP/MED</u> <u>WG.482/07 (chemical)</u>
EO 8	16	<u>UNEP/MED</u> WG.467/10		Assessment Criteria and Guiding document for application of assessment criteria for the IMAP Common Indicator 16 on coastline			<u>UNEP(DEPI)/MED</u> WG.444/07; <u>UNEP/MED</u> <u>WG.467/6</u>	
EO 9	17 sediment	<u>UNEP/MED</u> <u>WG.467/8;</u> <u>UNEP/MED</u> <u>WG.473/8</u>		UNEP/MED WG.492/Inf.9, UNEP/MED WG.533/3 (BC/BAC/EAC)	UNEP/MED WG.533/5 (proposition for Adriatic subregion and use of NEAT		UNEP(DEPI)/MED WG.444/5; UNEP/MED WG.463/04; <u>UNEP/MED</u> <u>WG.467/5</u> ;	UNEP/MED WG.463/6; UNEP/MED WG.482/11 (sampling); UNEP/MED WG.482/12 (sample prep. and analysis); UNEP/MED WG.509/32

EO	Common Indicator s and CCIs	Data Dictionaries/ Data standards	Monitoring and Assessment Scales	Assessment Criteria	Thresholds Values	Baseline Values	Guidance Factsheets	Guidelines and Monitoring Protocols
					approach); UNEP/MED WG.533/6 (proposition for Levantine basin using CHASE+ and traffic light approach)		<u>UNEP/MED</u> <u>WG.473/07</u> (updated)	and <u>UNEP/MED</u> <u>WG.509/33</u>
	17 marine biota	<u>UNEP/MED</u> <u>WG.467/8;</u> <u>UNEP/MED</u> <u>WG.473/8</u>		UNEP/MED WG.492/Inf.9, UNEP/MED WG.533/3 (BC/BAC/EAC)	UNEP/MED WG.533/5 (proposition for Adriatic subregion and use of NEAT approach); UNEP/MED WG.533/6 (proposition for Levantine basin using CHASE+ and traffic light approach)		UNEP(DEPI)/MED WG.444/5; UNEP/MED WG.463/04; <u>UNEP/MED</u> <u>WG.467/5;</u> <u>UNEP/MED</u> <u>WG.473/07</u> <u>(updated)</u>	UNEP/MED WG.482/13 (sampling); UNEP/MED WG.482/14 (sample prep. and analysis); UNEP/MED WG.509/32 and UNEP/MED WG.509/33
	17 seawater	<u>UNEP/MED</u> <u>WG.467/8;</u> <u>UNEP/MED</u> <u>WG.473/8</u>		UNEP/MED WG.492/Inf.9, UNEP/MED WG.533/3 (BC/BAC/EAC)			UNEP(DEPI)/MED WG.444/5; UNEP/MED WG.463/04; <u>UNEP/MED</u> <u>WG.467/5;</u> <u>UNEP/MED</u> <u>WG.473/07</u> (<u>updated)</u>	UNEP/MED WG.463/6; <u>UNEP/MED WG.482/15</u> (sampling); <u>UNEP/MED</u> <u>WG.482/16 (sampling</u> <u>prep. and analysis);</u> <u>UNEP/MED WG.509/32</u> and <u>UNEP/MED</u> <u>WG.509/33</u>
	18	UNEP/MED WG.533/7		UNEP/MED WG.492/Inf.9, UNEP/MED WG.533/3 (EAC)			UNEP(DEPI)/MED WG.444/5; UNEP/MED WG.463/04;	UNEP/MED WG.463/6, UNEP/MED WG. 492/6 (Biomonitoring) ;

EO	Common Indicator s and CCIs	Data Dictionaries/ Data standards	Monitoring and Assessment Scales	Assessment Criteria	Thresholds Values	Baseline Values	Guidance Factsheets	Guidelines and Monitoring Protocols
							<u>UNEP/MED</u> <u>WG.467/5;</u> <u>UNEP/MED</u> <u>WG.473/07</u> <u>(updated)</u>	UNEP/MED WG.509/28 and UNEP/MED WG.509/29 (for biomarkers); UNEP/MED WG.509/32 and UNEP/MED WG.509/33
	19			UNEP/MED WG.492/Inf.9			UNEP(DEPI)/MED WG.444/5; <u>UNEP/MED</u> <u>WG.482/21</u> (revision)	UNEP/MED WG.463/6
EO 9	20	UNEP/MED WG.533/7		UNEP/MED WG.492/Inf.9, UNEP/MED WG.533/3 (EAC)			UNEP(DEPI)/MED WG.444/5; UNEP/MED WG.463/04; <u>UNEP/MED</u> <u>WG.467/5;</u> <u>UNEP/MED</u> <u>WG.473/07</u> <u>(updated)</u>	UNEP/MED WG.463/6; <u>UNEP/MED WG.482/17</u> (sampling); <u>UNEP/MED</u> <u>WG.482/18 (analysis);</u> <u>UNEP/MED WG.509/30</u> and <u>UNEP/MED</u> <u>WG.509/31</u> for sampling and sampling analysis; <u>UNEP/MED WG.509/32</u> and <u>UNEP/MED</u> <u>WG.509/33</u>
	21	<u>UNEP/MED</u> <u>WG.467/8,</u> <u>UNEP/MED</u> <u>WG.473/8</u>		UNEP/MED WG.492/Inf.9			UNEP(DEPI)/MED WG.444/5; UNEP/MED WG.463/04; <u>UNEP/MED</u> <u>WG.467/5;</u> <u>UNEP/MED</u> <u>WG.473/07</u> (updated)	<u>UNEP/MED WG.463/6</u>

EO	Common Indicator s and CCIs	Data Dictionaries/ Data standards	Monitoring and Assessment Scales	Assessment Criteria	Thresholds Values	Baseline Values	Guidance Factsheets	Guidelines and Monitoring Protocols
	22	<u>UNEP/MED</u> <u>WG.467/8;</u> <u>UNEP/MED</u> <u>WG.473/8</u>		UNEP/MED WG.492/Inf.9	UNEP/MED WG.482/23 (proposals), UNEP/MED IG. 25/27 Annex IV, UNEP/MED WG.514/7 (proposal)	UNEP/MED WG.482/23 (updated), UNEP/MED IG. 25/27 Annex IV, UNEP/MED WG.514/7 (updated)	UNEP(DEPI)/MED WG.444/5	
EO 10	23 A. seafloor Marine litter	<u>UNEP/MED</u> <u>WG.467/8;</u> <u>UNEP/MED</u> <u>WG.473/8</u>		UNEP/MED WG.492/Inf.9			UNEP(DEPI)/MED WG.444/5	
I	23 B. Floating Marine litter	UNEP/MED WG.467/8; UNEP/MED WG.473/8, UNEP/MED WG.490/6 (Addendum)		UNEP/MED WG.492/Inf.9			<u>UNEP(DEPI)/MED</u> <u>WG.444/5</u>	<u>UNEP/MED WG.482/19</u> (microplastics); <u>UNEP/MED WG.509/34</u>
	CCI 24						UNEP(DEPI)/MED WG.444/5	UNEP/MED WG.461/8
EO 8	CCI 25		Monitoring and Assessment Methodological Guidance on Land Use Change				<u>UNEP(DEPI)/MED</u> <u>WG.444/07;</u> <u>UNEP/MED</u> <u>WG.467/6</u>	Pilot project tested <u>Pilot project in the</u> <u>Adriatic on testing the</u> <u>candidate common</u> <u>indicator "Land use</u> <u>change" in the</u> <u>Mediterranean</u>
EO 11	CCI 26						UNEP/MED WG.463/04 (proposal); <u>UNEP/MED</u> <u>WG.467/5</u>	

EO	Common Indicator s and CCIs	Data Dictionaries/ Data standards	Monitoring and Assessment Scales	Assessment Criteria	Thresholds Values	Baseline Values	Guidance Factsheets	Guidelines and Monitoring Protocols
							(proposal), <u>UNEP/MED</u> <u>WG.473/07</u> (proposal)	
	CCI 27						UNEP/MED WG.463/04 (proposal); <u>UNEP/MED</u> <u>WG.467/5</u> (proposal), <u>UNEP/MED</u> WG.473/07	

ANNEX III Working method

Collection of documents

1. The implementation of the Ecosystem Approach Roadmap was evaluated by reviewing UNEP/MAP documents many of which were accessed through <u>the UNEP/MAP search meeting</u> <u>documents</u> and the <u>SPA/RAC list of main meetings page</u>.

2. First, all COP decisions were reviewed since COP 15, 2008, date at which the Contracting Parties of the Barcelona Convention committed to the EcAp Roadmap (<u>Decision IG.17/6</u>).

3. The contextual introductions of each decision were read and the following keywords were searched for in the documents: "EcAp", "Ecosystem approach", "IMAP", "ecological objective", "GES", "indicators", "monitoring", and "gaps".

4. The section of the decision including the keywords was read to evaluate the relevance of the document with regard to the Ecosystem Approach, which of the seven steps of the EcAp roadmap was concerned and to what degree. The decisions were then classified as:

- (i) not relevant to the EcAp roadmap and were not retained,
- (ii) compliant and in line with the EcAp roadmap,
- (iii) contributing to the definition of part of the EcAp roadmap,
- (iv) or contributing to the EcAp roadmap implementation.

5. The documents (ii) to (iv) are listed in the Table A, and the relation to the specific EcAp roadmap steps indicated in the corresponding cell.

6. Secondly, documents and reports from CORMON, thematic Focal Points and EcAp Coordination Groups meetings since 2012 were assessed (since the adoption of UNEP/MED IG. 24/4 during COP 17). All documents relating to the implementation of the EcAp roadmap, of IMAP including Ecological Objectives and Common Indicators were added to the Annex I, Table A with associated information.

7. Other reports relative to the state of the Mediterranean Sea were searched for through <u>UNEP/MAP monitoring and assessment page</u> and considered in the evaluation.

8. To evaluate the implementation at a sub-regional and national level, the programmes and projects relevant to EcAp and to IMAP implementation were searched for through the <u>UNEP/MAP</u> project page, and the Compilation of Projects Fiches from 2017 to 2022 available on the same page was also considered. All projects and programmes relative to EcAp implementation actions and especially to IMAP implementation were listed additionally under Annex I, Table A and the relation to the specific EcAp roadmap steps indicated. Supplementary important reports that were consulted are also listed at the end of the table.

9. To assess the degree of development and definition of IMAP's CI and CCIs, documents relative to Data Dictionaries/Data Standards, Assessment Criteria, Threshold Values, Baseline Values, Guidance Factsheets, Guidelines and Monitoring Protocols were collected and are categorized in Table B.

10. Table A and Table B list the documents used in the evaluation presented in Table 2 as shown in **Error! Reference source not found.** hereafter.

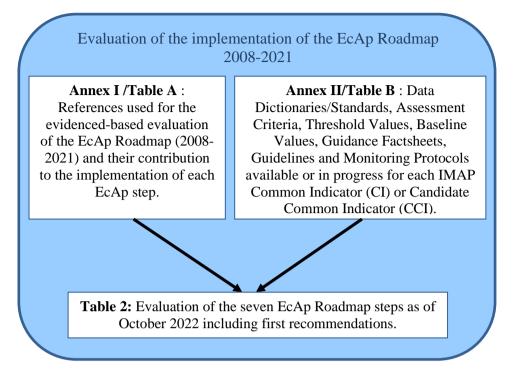


Figure 3 Relations between tables of this document

Evaluation process

11. Assessment of the each EcAp roadmap step status was based on the list of documents (COP decisions, CORMON thematic Focal Points and EcAp CG documents and project documents) relevant to each step compared with the objectives of the step as defined in the decisions $\underline{IG.17/6}$ - *Implementation of the ecosystem approach to the management of human activities that may affect the Mediterranean marine and coastal environment* and $\underline{IG.20/4}$ - *Implementing MAP ecosystem approach roadmap: Mediterranean Ecological and Operational Objectives, Indicators and Timetable for implementing the ecosystem approach roadmap.*

12. The evaluation process follows the concept note *Evaluation of Implementation of Ecosystem Approach Roadmap 2008-2021* (<u>UNEP/MED WG.521/3</u>).

13. The status was considered either "completed", "majority completed" when it was considered that over 50% of the step's objectives were implemented, or "partially completed" when it was considered that less than 50% of the objective of the step was implemented.