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Meeting of the Ecosystem Approach Correspondence Group on Monitoring (CORMON) Biodiversity and Fisheries

Athens, Greece, 9-10 March 2023

Agenda Item 3: 2023 Mediterranean Quality Status Report (2023 MED QSR): Content on Biodiversity, Nonindigenous species and Fisheries Ecological Objectives (EOs)

Draft 2023 MED QSR annotated Table of Contents

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Note by the Secretariat

UNEP/MAP is following the planned activities for the preparation of the 2023 MED QSR and its methodological approach, outline, structure, and contents. The proposed contents and structure were discussed at the Integrated CORMON Meetings (1-3 December 2020) and further refined in consultation with the Contracting Parties and in line with the 2023 MED QSR Operational Implementation Plan, based on the results of the ongoing UNEP/MAP system work on monitoring, assessment scales and integrated assessment methodologies and tools. The proposed contents and structure were reviewed and endorsed by the 8th Meeting of the Ecosystem Approach Coordination Group (9 September 2021, UNEP/MED WG.514/12, Annex II), further developed intersessionally with the EcAp Task Force.

The main assessment chapters of the 2023 Med QSR will be based on assessments of Common Indicators (CI) and some Candidate Common Indicators (CCI) within Ecological Objectives (EO). If feasible, CIs will be integrated within EOs and across EOs, where data permit. Table 1 below provides annotated draft contents of the 2023 MED QSR.

The draft content of the assessment chapters on Biodiversity (EO 1), Non-indigenous Species (EO 2) and Fisheries (EO 3) are presented in Working Documents UNEP/MED WG.547/3– WG.547/9 to this meeting.

List of Abbreviations / Acronyms

ACCOBAMS	Agreement on the Conservation of Cetaceans of the Black Sea, Mediterranean Sea and Contiguous Atlantic Area	
BAC	Background Assessment Criteria	
BC	Background concentrations	
CI	Common Indicator	
CCI	Candidate Common Indicator	
CMCC	Copernicus Marine Service	
CMEMS	Copernicus Marine Environment Monitoring Service	
СОР	Conference of the Parties	
CORMON	Correspondence Group on Monitoring	
DD	Data Dictionaries	
DS	Data Standards	
EAC	Environmental Assessment Criteria	
EcAp	Ecosystem Approach	
EEA	European Environment Agency	
EMODnet	European Marine Observation and Data Network	
EO	Ecological Objective	
ESA	European Space Agency	
ETC-UMA	European Topic Centre – University of Malaga	
EU	European Union	
GEF	Global Environment Facility	
GES	Good Environmental Status	
GFCM	General Fisheries Commission for the Mediterranean	
HELCOM	Baltic Marine Environment Protection Commission - Helsinki Commission	
IMAP	Integrated Monitoring and Assessment Programme	
IMO	International Maritime Organisation	
MAP	Mediterranean Action Plan	
МарХ	UN open-source maps	
MED POL	Programme for the Assessment and Control of Marine Pollution in the Mediterranean Sea	
MPA	Marine Protected Area	
MSFD	Marine Strategy Framework Directive	
NEAT	Nested Environmental status Assessment Tool	
NIS	Non-indigenous Species	
OSPAR	Convention for the Protection of the Marine Environment for the North-East Atlantic	
OWG	Online Working Group	
PT	Proficiency Tests	
QSR	Quality Status Report	
TDA	Transboundary Diagnostics Analysis	

Table 1. Proposed annotated content of the 2023 MED QSR. Annotated contents approved by the 8th Meeting of the Ecosystem Approach Coordination Group (9 September 2021, UNEP/MED WG.514/12, Annex II).

Section	Annotations (8 th EcAp CG)
Foreword (1 page)	
Acknowledgements Advisory Board Authors/consultants	For printed publication – online this can be replaced by the menu or tabs on the landing 2023 MED QSR page
List of experts consulted Acronyms and abbreviations	For printed publication – online this can be replaced by the menu or tabs on the landing 2023 MED QSR page
Table of Contents	For printed publication – online this can be replaced by the menu or tabs on the landing 2023 MED QSR page
Key findings or Executive Summary (1- 2 pages)	<i>NEW</i> – (see examples of HOLAS II and 2010 OSPAR QSR) for a more visual and shorter overview of key findings/conclusions of 2023 MED QSR for each Ecological Objective and other thematic (emerging topics) sections, as well as results of integrated assessment and DPSIR (possible through visual infographic such as in HOLAS II). The Executive Summary will be prepared in English, French, Spanish, and Arabic.
Introduction ("About the QSR") 0.1. UNEP/MAP and the Barcelona Convention: vision, goals, and Ecological Objectives 0.2. Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast 0.3. Other key global and regional assessment processes 0.4. Approach and methodology for the preparation of the 2023 Mediterranean QSR	Presenting briefly EcAp and IMAP process in the Mediterranean, key decisions, links to SDGs and other global processes, progress on implementation and methodology for this QSR. Could use similar structure as 2017 MED QSR (copied here). The section on IMAP can present an update on national IMAP implementation per CI. The integrated assessment methodology and specificities of DPSIR analysis at MAP level would be presented here in detail. The full list of IMAP EOs and CIs could either be presented in a table here, or as an annex at the end of the publication (for online version, as a separate page/tab). As an alternative, the approach and methodology can be presented in a stand-alone section after the Introduction, to give it more prominence.
 1. The Mediterranean Sea 1.1. Environmental characteristics 1.1.1. The Mediterranean marine and coastal environment Geography, physiography and landscapes Circulation and water masses 	Section providing an overview of the Mediterranean regional context in terms of environmental and socio- economic characteristics, similar to the 2017 MED QSR. In the printed version, this should come as the first section after the introduction to set the background/context for the quality assessment. Compared to the 2017 MED QSR, a new sub-section

Section	Annotations (8 th EcAp CG)
Hydrological and climatic setting	(1.3) is proposed to provide the regional policy and
Water and nutrient characteristics	cooperation context in the Mediterranean under the
Biodiversity	Barcelona Convention. While the Introduction above will
1.1.2. Climate change	include a brief overview of the Barcelona Convention
The Mediterranean region: a climate	process and the implementation of the Ecosystem
5	
change hot-spot	Approach, this sub-section could provide more in-depth
Sea level rise (SLR)	information on relevant regional policy frameworks and
Climate Change related risks,	regional cooperation efforts towards assessing and
vulnerabilities and impacts	achieving GES. It could also explain the links to the
Possible impacts on GES (<i>NEW</i>)	MSFD.
1.2. Socioeconomic characteristics of the	
Mediterranean	Section 1.1 (Environmental characteristics) or 2
Introduction	(Socioeconomic characteristics) could briefly address
Population and development	ecosystem services and benefits (as part of the argument
Tourism	of why it is important to preserve ecosystems).
Maritime transport	
Energy, gas and oil exploration and	The section on climate change (which was also included
exploitation, mining and	in 2017 MED QSR) should capitalize on MedECC results
manufacturing	and be brief, if possible highlighting relevance and
Fisheries and aquaculture	possible influence of climate change on aspects/indicators
Land-based pollution sources.	covered by IMAP (e.g., possible impacts of CC on
	eutrophication, habitats, species, NIS, coastal erosion).
1.3. Regional cooperation (NEW)	This can be a simple analysis relying on available global
	research if no regional analysis is available. This would
Barcelona Convention and Protocols	make this part more integrated with the rest.
Other relevant regional policy frameworks	
(e.g., MSFD)	
2. Mediterranean Quality Status	For the 2023 edition of the QSR, a new approach is
Assessment	proposed by integrating CIs within specific Ecological
2.1 Pollution and Litter Cluster	Objectives (EO), and thereafter of EOs at the level of
	IMAP Clusters (rather than by individual CI which was
2.1.1 Eutrophication (EO5)	the approach of the 2017 QSR). Each section corresponds
- Key findings (introductory paragraph)	to one of the 11 IMAP Ecological Objectives; sections are
- Background information on	grouped by clusters (Pollution and Litter; Biodiversity
eutrophication/trends and sources of	and NIS; Coast and Hydrography) in the same order as
pressure	2017 QSR.
- Methodology: Common Indicators	
used in the assessment (CI 13-14) and	In line with above, for each cluster, a final section is
assessment methodology	proposed providing elements towards integrated
- Integrated GES Assessment for EO5	assessment within this cluster (across EOs) following the
- Specific issues/trends per selected CI	DPSIR approach, and possibly elements for integration
(possibly in the form of diagrams or	with other clusters; or, if the methodology for integrated
figures, and maps if feasible)	GES assessment per cluster is not ready, this section
- Analysis and conclusions	could provide an update on progress on methodologies
	and recommendations for next assessment.
2.1.2 Pollution (EO9)	Each section per EO will include the following core
- Key findings (introductory paragraph)	elements:
- Background information on	- a short paragraph with the key findings for this
pollution/contaminants, including trends	Ecological Objective (3-4 sentences max), which can be
and sources of pressure	presented as a chapeau like in HOLAS II or in a box
- Methodology: Common Indicators	
- Methodology. Common mulcators	similar to OSPAR.
used in the assessment (CI 17-21) and	- introduction to the issues associated with this Ecological

Section	Annotations (8 th EcAp CG)
assessment methodology	Objective (trends, sources of pressure, targets, as feasible
- Integrated GES Assessment for EO9	and applicable).
- Specific issues/trends per selected CI	- a presentation of Common Indicators used for the
(possibly in the form of diagrams or	assessment and brief description of applied GES
figures, and maps if feasible)	methodology, including use of the criteria of assessment
- Analysis and conclusions	within aggregation of assessment findings at optimally
2.1.3 Marine Litter (EO10)	nested scales of assessment, as well as visualization of the
- Key findings (introductory paragraph)	assessment findings by applying the tools as feasible
- Background information on marine	within selected specific GES assessment methodology
litter, including trends and sources of	i.e., maps/ graphs/ infographics;
pressure	- Integrated assessment for the EO using the DPSIR
- Methodology: Common Indicators	approach as far as possible, based on results of CI
used in the assessment (CI 22-23) and	assessment; and if possible, comparison with 2017 QSR
assessment methodology; CCI24 could be	- Specific highlights for individual Common Indicators in
presented in a separate box to update on	case they need to be given particular attention (can be in
its status	boxes).
- Integrated GES Assessment for EO10	- Analysis/conclusions on compliance and non-
- Specific issues/trends per selected CI	compliance with GES targets, along with the proposals of
(possibly in the form of diagrams or	next steps to further measures/efforts to be put in place
figures, and maps if feasible)	towards GES achievement what is the future outlook and
- Analysis and conclusions	what are the risks, challenges to look out for). This last
	sub-section could also highlight data gap issues and
	further efforts required to improve data availability.
	For each cluster, the assessment will be based on
	mandatory IMAP Common Indicators monitored and
	reported by Contracting Parties. Where possible,
	information/update will also be provided for Candidate
	Common Indicators as part of relevant chapters/sections
	based on available data (CCI24, 25, 26 and 27).
2.2 Biodiversity and NIS Cluster	See explanation above of structure per cluster and per EO sub-section.
2.2.1 Biodiversity (EO1)	sub-section.
	Section 2.2.1 (EO1) will include background information
- Background information on Habitats	on habitats and species, which should refer to trends and
and Species, including trends and sources	sources of pressure, the status of knowledge on every
of pressure	concerned habitat / species group across Mediterranean
- Methodology: Common Indicators	countries/sub-regions.
used in the assessment (CI 1-5) and	
assessment methodology	Section 2.2.1 should present one integrated assessment
- Integrated Assessment for EO1	per component of biodiversity (e.g., one assessment for
- Specific issues/trends per selected	habitats, one for marine mammals, one for seabirds, one
CI/taxa/main species (possibly in the form	
of box)	
- Analysis and conclusions	
2.2.2 Non-indigenous Species (EO2)	Section 2.2.2 (EO2) will be based mainly on the results of
- Key findings (introductory paragraph)	the baseline assessment of NIS and the national lists
- Background information on NIS,	shared by the Contracting Parties, with possible
including trends and sources of pressure	contribution from the results of sub-regional pilots. The
- Methodology: Common Indicators	geographical scope of the data and scales used will be
used in the assessment (CI 6) and	clearly presented in the methodology sub-section. A
assessment methodology	special box could be added to describe the sub-regional

Section	Annotations (8 th EcAp CG)
- Integrated Assessment for EO2	pilots and joint monitoring efforts. The section on specific
- Specific issues/trends per species/main	issues/trends may provide trends per taxonomic group or
sources/hotspots/most vulnerable areas to	eco-functional group of species, and will include a focus
NIS (possibly in the form of box)	on main sources, hotspots, and most vulnerable areas to
- Analysis and conclusions	NIS, as well as a reference to the establishment of
	regional and sub-regional list of invasive species to be
	monitored.
2.2.3 Harvest of commercially exploited	Section 2.2.3 (EO3) will be prepared with support from
fish and shellfish (EO3)	GFCM based on their database. A clear link will be
- Key findings (introductory paragraph)	provided between CI 12 (By-catch of vulnerable and non-
- Background information on	target species) to CI 2 (Condition of the habitat's typical
commercial fisheries and trends	species and communities) and CI 5 (Population
- Methodology: Common Indicators	demographic characteristics). The conclusions will
used in the assessment (CI 7-12) and	include focus on commercial species that are listed in
assessment methodology	Annex III of the Barcelona Convention Protocol
- Integrated Assessment for EO3	concerning Specially Protected Areas and Biological
- Specific issues/trends per selected	Diversity in the Mediterranean ("Species whose
CI/species (possibly in the form of box -	exploitation is regulated").
tbc)	
- Analysis and conclusions	
2.2.4 Elements for Marine Food Webs	Section 2.2.4 (EO4 and EO6) relates to Ecological
(EO4) and Sea-floor integrity (EO6)	Objectives for which Common Indicators have not been
(NEW)	developed yet and will be advanced during the 2020-2021
- EO4	and 2022-2023 biennia. In the absence of IMAP
- Key issues and sources of pressure	monitoring data for these two EOs, the section could
- State of the art on data, monitoring	build on and reflect available data sources identified and
and assessment	approved through CORMONs, available technologies and
- Preliminary assessment for EO4	techniques for monitoring, provide a preliminary
and conclusions	assessment to the extent possible, and draw conclusions
- EO6	and recommendations for further monitoring and
- Key issues and sources of pressure	assessment of EO4 and EO6 (and if possible,
- State of the art on data, monitoring	recommendations for measures based on identified key
and assessment	issues/pressures related to these EO).
- Preliminary assessment for EO6 and	
conclusions	Explore the possibility for including seafloor integrity,
	recognizing the EO6 is under development, with clear
	links between the common indicator fact sheet, to
	undertake assessment for the biodiversity component, i.e.,
	for species.
2.3 Coast and Hydrography Cluster	See explanation above of structure per cluster and per EO
	sub-section.
2.3.1 Hydrography (EO7)	
- Key findings (introductory paragraph)	A box on innovative coastal products and data collection
- Background information on	and assessment methods and technologies could be added
Hydrography, including trends and	(e.g., Copernicus, EMODnet, Marinomica)
sources of pressure	
- Methodology: Common Indicators	Strengthen the link between hydrography and
used in the assessment (CI 15) and	biodiversity, particularly regarding habitats
assessment methodology	Due to the high complexity of this Common Indicator, a
- Specific issues/trends per habitat or	baseline assessment may be conducted at this stage.
type of pressure (possibly in the form of	
box - tbc)	
- Analysis and conclusions	

Section	Annotations (8 th EcAp CG)
· · · ·	See explanation above of structure per cluster and per EO
(EO8)	sub-section.
- Key findings (introductory paragraph)	
- Background information on Coastal	
ecosystems, including trends and sources	A box on innovative coastal products and data collection
of pressure (a box on climate change and coastal erosion could be added)	and assessment methods and technologies could be added
- Methodology: Common Indicators used	(e.g., Copernicus, EMODnet, Marinomica)
in the assessment (CI 16) and assessment	Strengthen the link between hydrography and
methodology, CCI25 could be presented	biodiversity, particularly regarding habitats
in a separate box to update on its status	Due to the high complexity of this Common Indicator, a
in a separate box to aparte on its status	baseline assessment may be conducted at this stage.
	ousernie ussessment may be conducted at ans suger
2.4 Towards an integrated assessment of	Depending on level of progress on UNEP/MAP
GES in the Mediterranean	integrated assessment methodologies, this section could
	propose a brief DPSIR-based integrated GES assessment
	of the Mediterranean Sea and Coast and cumulative
	pressures and impacts; or describe current efforts and
	status of progress on developing these methodologies, and
	summarize key pressures, overall state and impacts based
	on the assessments provided in sections 2.1-2.3.
3. UNEP/MAP Actions and Measures to	
Address Pressures and Protect the	measures and actions undertaken at the regional level in
Mediterranean Sea and Coast	the Mediterranean as part of MAP Barcelona Convention,
	to address specific pressures and improve the status of the Sea and Coast in relation to the Ecological Objectives and
	Common Indicators under IMAP. An analysis of the
	effectiveness of the measures could be proposed (at least
	briefly).
	Boxes could focus on specific achievements to be
	highlighted (e.g., SPAMI, SOx ECA, Pollution and
	Marine Litter Regional Plans, Key Species and Habitats
	Regional Action Plans, ICZM/CRF). This section could
	highlight in particular efforts for integrated ecosystem
	management.
-	This section could provide a summary of main issues
outlook	identified in the QSR through the assessment, and an
1 1 Key issues risks and priorities	analysis of overall status and trends based on the
4.1 Key issues, risks and priorities	assessment, as well as possible future risks, if no action is taken.
4.2 Recommendations for priority	It should then include recommendations on possible
actions/measures	priority areas of action and measures to be developed to
	address key pressures and drivers. This part can also
4.3 Recommendations for future	highlight some ongoing and planned efforts identified as
monitoring and assessment	particularly effective (e.g., SOx ECA).
-	Finally, it should identify key challenges and provide
	recommendations in relation to data gaps to be addressed
	for the next QSR (2029) and monitoring and assessment
	methods.
Annexes	The Annexes will include any additional useful
	information, such as the list of IMAP EOs and CIs, if not

Section	Annotations (8th EcAp CG)
List of IMAP EOs and CIs	included in the introduction; list of key species and
Species list	habitats considered; specific case studies (if not included
Marine habitats list	in boxes inside the thematic chapters) etc.
Sub-regional case studies	
Other Annexes tbd	
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