



Bu proje Avrupa Birliği ve Türkiye Cumhuriyeti tarafından finanse edilmektedir.
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Türkiye'de Deniz Stratejisi Çerçeve Direktifi Kapsamında Kapasite Geliştirme Projesi
Capacity Building Project on Marine Strategy Framework Directive in Turkey

Training on Fundamental Concepts and Processes of the Marine Strategy Framework Directive Antalya, 7-11 November 2016

The Work in the Black Sea Commission with a focus on GES and targets

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Permanent Secretariat of the Commission on the Protection of the Black Sea against Pollution



Denizlerimizin geleceği bizim ellerimizde

The future of the seas is in our hands



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Bucharest Convention (6)



- ▶ **Strategic Action Plan (BS SAP)** on the Protection and Rehabilitation of the Black Sea (2009):

Item 3.1 Key management approaches.

The Black Sea SAP will adhere to 3 key environmental management approaches. These are:

- Integrated Coastal Zone Management (ICZM);
- **The Ecosystem Approach; and**
- Integrated River Basin Management (IRBM).

The BS SAP was elaborated from consensus reached at a multinational level in relation to a series of proposals that include: **Ecosystem Quality Objectives (EcoQOs)**; short, medium and long term targets; and legal and institutional reforms and investments necessary to solve main environmental problems identified within the 2007 BS TDA.

BS SAP 2009

Four Ecosystem Quality Objectives:

1. *Preserve commercial **marine living resources** through:*
 - *Sustainable use of commercial fish stocks and other marine living resources*
 - *Restore/rehabilitate stocks of commercial marine living resources*

2. *Conservation of Black Sea **Biodiversity and Habitats** through:*
 - *Reduction of risk of extinction of threatened species*
 - *Conservation of coastal and marine habitats and landscapes*
 - *Reduction and management of human mediated species introductions*

3. *Reduce **eutrophication** through:*
 - *Reduction of nutrients originating from land-based sources, including atmospheric emissions*

4. *Ensure **Good Water Quality** for Human Health, Recreational Use and Aquatic Biota through:*
 - *Reduction of pollutants originating from land-based sources, including atmospheric emissions*
 - *Reduction of pollutants originating from shipping activities and offshore installations*

Strategic Action Plan for the Environmental Protection
and Rehabilitation of the Black Sea (BS SAP 2009):

- provides a **brief overview of the current status of the Sea** (Black Sea Transboundary Diagnostic Analysis (BS TDA 2007) and progress of the original BS SAP 1996;
- **reorganizes the priorities and actions** therein considering the progress in the region and the current state of the environment;
- **describes the policy actions** required to meet the major environmental challenges now facing the Sea, and **includes a series of management targets**;
- **recognizes the same environment threats as those identified by the MSFD** (loss/degradation of biodiversity/habitats, contamination by dangerous substances/nutrients and impacts of climate change), however, **sets no environment targets, but only operational** according to four Ecosystem Quality Objectives.

Progress (1)



- **Short format of reporting** elaborated and adopted (based on indicators agreed by consensus (E-TRIX, BEAST, H-Shannon 95 (biomass), Landings per unit of effort etc., compatible with MSFD, GFCM, ACCOBAMS and global approach to indicators (UNEP) and SDGs);
- text of the Black Sea Integrated **Monitoring and Assessment Program** - BSIMAP for years 2017-2022 **was adopted in October 2016!!!** (drafted within EU MSFD Project, main approaches are harmonized, definition of GES and descriptors, reporting format to ICPDR, data-bases for harmonization);
- First Report on the Implementation of the (amended) BS SAP (2009) – **SAPIR and “State of the Black Sea Environment” Report – SoE** (outlines reflect the MSFD requirements and global approach);

Progress (2)



- Work on incorporation of deliverables of **relevant projects** (EMBLAS, DEVOTES, PERSEUS, IRIS-SES, EMODNET, Baltic2Black, MSFD, MISIS etc.);
- Signature of the **MoU between UNEP/MAP** and BSC PS – project on monitoring of Marine Litter;
- **Cooperation with UNEP:**
 - 17th Global Meeting of Regional Seas was hosted in Istanbul by the BSC (October, 2015)
 - Work in Working Group on global indicators
 - implementation of marine litter related activities under the BSC PS - UNEP Small Scale Funding Agreement.

Draft BSIMAP 2017-2022 (1)



- **Draft Black Sea Integrated Monitoring and Assessment Program (2015-2020):**
- is foreseen in Article XV of the Bucharest Convention;
- based on **national monitoring programs** financed by the Black Sea states and **thematic scientific surveys** carried out in the frames of different projects, financed by national authorities and/or donors (UNEP, UNDP/GEF, EC, UN FAO and others);
- employs the **DPSIRR** (Drivers, Pressures, State, Impact, Response, Recovery) model;
- **choice of parameters to monitor** is related to the SoE and SAPIR reports.

Draft BSIMAP 2017-2022 (2)



- Content

- List of abbreviations
- Preamble
- Definitions

- Legal Basis

- Assessments
- Black Sea Environmental Monitoring Program
- Quality Assurance/Quality Control (QA/QC)
- Black Sea Information System (BSIS)
- Timeframe for Implementation of the Black Sea Integrated Monitoring and Assessment Program for years 2015-2020
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- Annex 1 **Black Sea Regional Monitoring Program**
- Annex 2 Relevant data-bases for possible future harmonization with BSIS
- Annex 3 Proposed organizational scheme and time-table for preparation of the assessment reports

- Annex 4 **BSIMAP Reporting format** (to be added when revised by the BSC and Advisory Groups (AGs))

- Annex 5 List of the Black Sea Guidelines and Manuals
- Annex 6 List of Black Sea priority substances
- Annex 7 Environmental Quality Standards for Priority Substances and certain other pollutants

- Annex 8 Substances subject to review for possible identification as priority substances or priority hazardous substances
- Annex 9 Priority thematic studies to be implemented in 2015-2020. Subjects for international and national research projects
- Annex 10 **BSC - ICPDR Reporting format**

Draft BSIMAP 2017-2022 (3)



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Draft BSIMAP 2017-2022 (4)



- **EcoQO 1** Preserve commercial marine living resources
- **EcoQO 1b** Sustainable use of commercial fish stocks and other marine living resources
- **Descriptor** - populations of all commercially exploited fish and shellfish are within safe biological limits, exhibiting a population age and size distribution that is indicative of a healthy stock
- **Interim Target** - Increasing trends in the stocks of commercial predator species
- **Ultimate Target** -Reduction of fishing mortality
- **Preparatory actions** - Revise Annex 2 and Annex 4 to the Black Sea Biodiversity and Landscape Conservation Protocol; Harmonize data collection and stock assessment methodologies; Agree on indicators (develop and/or apply); Relate pressures/impacts; Others (to be specified by the FOMLR AG)
- **Additional monitoring and data/information collection** - Aquaculture; Harmonized Total Allowable Catches (TACs); Illegal, Unreported and Unregulated fishery (IUU); Use of destructive equipment; Maximum sustainable yield; Non-compliance with regulations (admissible size, fishing-free zones and periods etc.); Restructuring of fishing fleet; Development of control and compliance road map (i.e. VMS); Others (to be specified by the FOMLR AG)
- **Data Products** - Criteria for assessments, indicators, trends, manuals, guidelines, etc.

BSIMAP 2017-2022 (5)



- **Agreed PMA Indicators:**

- **E-trix**

- **Oxygen Saturation in Bottom waters**

Saturation of oxygen in bottom layer in late summer times

- **Inorganic N, P, Si in the surface layer in late winter time**

- **Inorganic N per Inorganic P in upper layer (1 m from surface)**

- **$N_{\text{inorganic}}/\text{Si}$**

- **Inorganic N per Si in upper layer (1 m from surface)**

- **BEAST**

Core set indicators grouped as causes - inorganic nitrogen, inorganic phosphorus (phosphates), direct effects - chlorophyll a , indirect effects - bottom oxygen (where available), Secchi.

(To be defined by each country **according to its reference values** – within B2B each country had an expert who worked for BSC)



Thank you for your kind attention!

For more information please visit:

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Sunumumuz sona ermiřtir, ilginiz iin teřekkr ederiz.

Our presentation is finished, thank you for listening.



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