Technical Workshop on Selecting Indicators for the State of Regional Seas
Geneva, 30 June – 2 July 2014

EEA coastal and marine indicators – state of play

Cécile Roddier-Quefelec/Constança Belchior - EEA
EEA mission (simplified)

The European Environment Agency is the EU body dedicated to providing sound, independent information on the environment.

We are a main information source for those involved in developing, adopting, implementing and evaluating environmental policy, and also the general public.
European environment information and observation network (Eionet)

About 350 national institutions

- National focal points
- European topic centres
- National reference centres
- Other institutions
Which are the countries with which EEA collaborates?
Regional seas surrounding Europe
EEA indicators - specification

EEA indicator specification template

- Title
- Add assessments
- Justification for indicator selection
- Scientific references
- Indicator definition
- Policy Questions
- Policy Context and targets
- Related policy documents
- Methodology for indicator calculation
- Methodology for gap filling
- Methodology references
- Data specifications
- Uncertainties
- Related items
- General metadata
EEA indicators - assessment

EEA indicator assessment template

Assessment

Maps & Graphs and metadata

Key message
Key assessments
Specific assessments

Maps & Graphs and metadata

Generic metadata

Indicator codes: 329/267
Temporal coverage: 1990-2000
Geographical coverage:

EEA, EPA, EEA-EG, Norway, Switzerland
Based on EEA dataset

- Nutrients in transitional, coastal and marine (TCM) waters
- Chlorophyll-a in TCM waters
- Hazardous substances in marine organisms

Based on external datasets

- Status of European fish stocks
- European fishing fleet capacity
- European aquaculture production
EEA coastal and marine indicators – new (2014)

Based on external datasets

- Trends in marine non-indigenous species
- Trends in pathways for introduction of marine non-indigenous species
CSI021 - Nutrients in transitional, coastal and marine waters

CSI023 – Chlorophyll in transitional, coastal and marine waters

MAR001 – Hazardous substances in marine organisms

CSI032 – Status of marine fish stocks

All these indicators will be updated in Autumn 2014
Eionet reporting process of TCM data and data use
CSI023 (chla levels and trends) - 2011

Summer chlorophyll-a (Chla) concentrations in European Seas, 2010 (µg/l)

Baltic Sea
- Baltic Sea
- Low <2.8
- Moderate 2.9-12.2
- High >12.2

North-east Atlantic Sea
- Celtic Seas
- Low <2.0
- Moderate 2.0-6.5
- High >6.5
- Greater North Sea
- Low <1.3
- Moderate 1.3-8.9

Observed changes in chlorophyll-a (Chla) concentrations, 1985-2010
- Decrease
- Increase
- None

Baltic Sea
- Baltic Sea

North-east Atlantic Sea
- Celtic Seas
- Greater North Sea (excl. Kattegat and the English Channel)
- Bay of Biscay and the Iberian Coast

Mediterranean Sea
- Mediterranean Sea

Black Sea
- Black Sea
MAR001 (Hazardous Subs. in Biota) - 2011

Assessment of hazardous substances in biota measured in the North East Atlantic Sea including the North Sea, Baltic Sea and Mediterranean Sea

Concentrations
- Low
- Moderate
- High

Seas
- North East Atlantic Sea including the North Sea
- Baltic Sea
- Mediterranean Sea
- Black Sea

Cd = Cadmium
Hg = Mercury
Pb = Lead
HCB = Hexachlorobenzene
Lindane = Gamma hexachlorocyclohexane (γ - HCH)
DDT = Dichlorodiphenyltrichloroethane
PCB = Polychlorinated biphenyls

▲ Trend up  ▼ Trend down

2010 data
CSI032 (Status of fish stocks) - 2011

Proportion of catch from assessed fish stocks, 2008

- Total catch in tonnes
- Assessed stocks
- Non-assessed stocks
- ICES and GFCM fishing regions

2008 data

Proportion of stocks within and outside safe biological limits, 2008

- Total number of assessed fish stocks
- Number of overfished stocks
- Commercial stocks within 'safe' limits
- ICES and GFCM fishing regions
3rd Euro-Mediterranean Ministerial Conference on environment in Cairo in 2006:

“…endorsed the timetable for the Horizon 2020 initiative for de-pollution of the Mediterranean Sea by 2020 and agreed to undertake steps to develop national integrated environmental information systems to produce reliable, comparable and timely statistical data and information to support Horizon 2020 aims”.

H2020 phase I (2006-13) road-map calls for the monitoring of the initiative:

- **five-yearly reports** on the state of the environment in the Mediterranean Sea based on an agreed set of indicators
- **biennial synthesis** progress reports focusing on country assessments

Athens declaration (May 2014) confirmed this mandate

Detailed workplan (2014-20) to be adopted by end of the year
Pillars of SEIS - Shared Environmental Information System

- Ministry of Environment
- Statistics department
- National thematic network

1. Municipal waste
2. Urban Wastewater
3. Industrial emissions

- Establishment of long term reporting mechanisms
- National and regional environmental information systems
# Horizon 2020 Key indicators

<table>
<thead>
<tr>
<th>Category</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste</td>
<td>• Municipal waste generation, composition</td>
</tr>
<tr>
<td></td>
<td>• Volume of municipal waste collected and treated, number, type and location of landfills</td>
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<tr>
<td>Waste water</td>
<td>• Share of population with access to an improved sanitation system (total, urban, rural)</td>
</tr>
<tr>
<td></td>
<td>• Volume of wastewater collected, of which volume of wastewater treated, type of treatment)</td>
</tr>
<tr>
<td>Industrial emissions</td>
<td>• Nutrient concentrations in transitional, coastal and marine waters</td>
</tr>
<tr>
<td></td>
<td>• Release of toxic substances and nutrients from industrial sectors</td>
</tr>
</tbody>
</table>
Thank you for your attention

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