

MARMONI & CORESET common grounds and way forward

Georg Martin



MARMONI vs CORESET concept

MARMONI

- “Shopping list” for indicators of marine biodiversity in the Baltic Sea
- New indicators and methods
- Developed in four pilot areas
- EST, LAT, FIN, SWE
- Developing and testing on new data

CORESET

- Limited, short list that is used in all HELCOM countries
- Existing monitoring programs
- Applicable all over the Baltic Sea area
- All HELCOM countries
- Operationalization based on existing data



MARMONI contribution to CORESET process:

capacity
development,
data for testing,
man-days



Innovative approaches for marine bio...

Name of indicator	Relevant HELCOM CORESET indicator
Fish indicators	
1.6 Abundance of Cyprinids	Aundance of key coastal fish species (core)
Benthic indicators	
2.9 Population structure of <i>Macoma balthica</i>	Population structure of long-lived macrozoobenthic species (core)
2.11 Depth distribution of selected perennial macroalgae	Lower depth distribution limit of macrophyte species (pre-core)
2.14 Macrozoobenthos community index, ZKI	State of the soft-bottom macrofauna communities (BQI) (core)
Pelagic indicators	
3.1 Phytoplankton species assemblage clusters based on environmental factors.	Proposed candidate indicator, MARMONI indicator being tested in other HELCOM areas
3.2 Seasonal progression of phytoplankton functional groups	Proposed candidate indicator, MARMONI indicator being tested in other HELCOM areas
3.6 Spring bloom intensity index	EUTRO-OPER Proposed candidate indicator, developing comparable indicator
3.10 Zooplankton mean size vs. total stock (MSTS)	Zooplankton mean size and total abundance (core, comparable indicator)
Bird indicators	
4.1 Abundance index of wintering waterbird species	Abundance of waterbirds in the wintering season (core)
4.2 Wintering waterbird index (WWBI)	
4.3 Wintering indices for waterbirds of different feeding guilds (WWBIFG)	
4.4 Abundance index of breeding waterbird species	Abundance of waterbirds in the breeding season (core)
4.5 Breeding waterbird index (BWBI)	
4.14 Abundance index of by-caught birds	Number of drowned mammals and waterbirds in fishing gears (core)

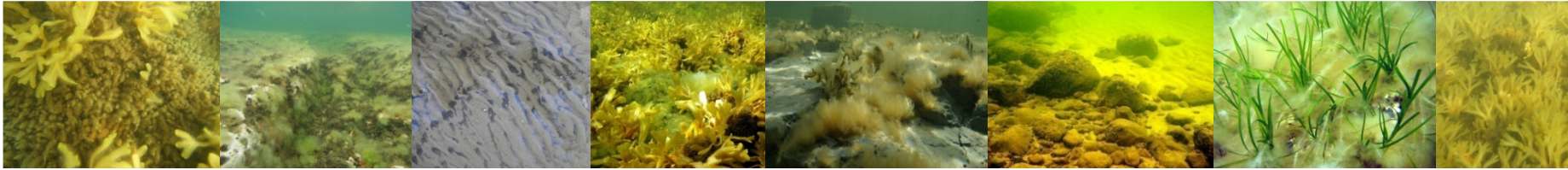


Need for indicator development after MARMONI & CORESET II

- Revision of COMMISSION DECISION on criteria and methodological standards on good environmental status of marine waters
- Update of national monitoring programs (new cost-effective methods/indicators needed)
- Still issues and gaps uncovered by national monitoring and assessment programs and HELCOM assessments

Need for harmonization of monitoring and assessment of marine biodiversity

- Required by MSFD & HELCOM MAS
- Currently “harmonization” done by information exchange – second step generally missing
- Obstacles – e.g. WFD mon/assessment schemes legally fixed
- Real harmonization has better chance in topics in the process of development (e.g. monitoring of areal extent of benthic habitats)



Work on indicator development is not yet over!

And will probably never be over!

Thank You for Your attention!