

# ICES SYMPOSIUM



## Environmental Indicators: Utility in Meeting Regulatory Needs

London, UK  
20 - 23 November 2007



<http://envind2007.benthos.be/>



## Programme

<b>Tuesday 20. November</b>	
10:00-	Registration lunch
12:30-12:40	Welcome by Hubert Rees (Meeting Chair)
12:40-13:10	Introductory address by David Johnson (OSPAR Executive Secretary)
Chair(s): Eva Royo Gelabert, Hubert Rees (themes 1 & 2)	
13:10-13:40	Thomas C Wainwright "Environmental Indicators and Pacific Salmon Conservation"
13:40-14:00	H Backer "The HELCOM Baltic Sea Action Plan - an indicator based management plan"
14:00-14:20	P Bubb "Issues in developing biodiversity indicators for policy making and monitoring"
14:20-14:50	W Nelson "Use of Probability Based Sampling of Water Quality Indicators in Supporting Water Quality Criteria Development"
14:50-15:10	P Heslenfeld "EcoQOs - Health indicators for the North Sea" coffee/tea
15:30-16:00	Simon Jennings "Indicator systems to support marine environmental management"
16:00-16:20	J Barry "The use of simulated data for testing the performance of environmental indicators"
16:20-16:40	N Lavesque " Use of biotic indices to assess physical disturbances on benthic macrofauna in marine seagrass beds"
16:40-17:00	M Moreno " Analysis of meiofauna and nematode communities to assess environmental pollution in enclosed harbours"
17:00-17:20	JM Ruiz " Four decades of gastropod imposex: from puzzling revelation to mandatory monitoring" reception
<b>Wednesday 21. November</b>	
Chair(s): Emily Corcoran, Jesper H Andersen (theme 2)	
09:00-09:30	Virginia Engle "Selecting, developing, and maintaining ecological indicators of estuarine condition: The National Coastal Assessment experience"
09:30-09:50	GF Birch "The use of sediment-bound heavy metals as indicators of human impact on coastal waterways"
09:50-10:10	SP Cotterell "Assessing ecological impacts of fishing and taxonomic priorities for conservation: a case study applying average taxonomic distinctness (7+) and variation in taxonomic distinctness (7+) as environmental indicators to commercial trawl samples"
10:10-10:30	Z Jäger "Fish-based indicators for WFD in transitional waters. A German-Dutch case study on the Ems (disputed area)" coffee/tea

11:00-11:20	JH Andersen "From indicators to multi metric assessment tools: A case study from the Baltic Sea"
11:20-11:40	F Salas "Applicability of trophic index (TRIX) in transitional ecosystems: the Mar lagoon (Spain) and the Mar Menor coastal lagoon (Portugal)"
11:40-12:00	J Modin "Assessment of coastal pressures by coastal fish monitoring" lunch
Chair(s): Ed McManus, Lindsay Murray	
13:00-13:20	PJ Somerfield "Biodiversity and Ecosystem Functioning; novel formulations for indices of relevance"
13:20-13:40	P Key "An evaluation of the grass shrimp as an indicator of sediment contamination and water quality in South Carolina, US estuaries"
13:40-14:00	SE Ryan "Development of Indices of Coastal Zone Eutrophication"
14:00-14:20	SE Aplitz "Linking in situ research on benthic function to sustainable coastal management"
14:20-14:40	M Fabiano "Development of a multiple solution scheme for the assessment and monitoring of environmental quality in marinas"
14:40-15:00	L Crosnier "Ocean indices for climate monitoring of the global ocean" coffee/tea
15:30-15:50	P Tett "Use of a phytoplankton community index to assess the health of coastal waters"
15:50-16:10	GJ Piet "Exploring the relationship between ecological state and fishing pressure"
16:10-16:30	N Hardman-Mountford "An operational monitoring system to provide indicators of CO2-related variables in the ocean"
16:30-16:50	V Fleming-Lehtinen "A species-diversity approach for indicating changes in the Baltic phytoplankton community structure"
16:50-17:10	J Ardron "Assessing the Ecological Coherence of the OSPAR MPA Network in the Absence of Conventional Indicators"
17:30-19:30	poster session with refreshments
<b>Thursday 22. November</b>	
Chairs: Ketil Hylland, GerJan Piet (themes 1, 2, 3)	
09:00-09:20	E Bayer "The Regulatory Framework and Operational Efficiency of Aggregate Extraction and Marine Dredging Indicators within the United Kingdom: A Possible Model for Other Nations?"
09:20-09:40	MRA Campos "Operationalizing the use of environmental indicators in regulating fisheries in the Philippines"
09:40-10:00	I Kröncke "Long-term variability of benthic indices off the island of Nordrney"
10:00-10:20	P Whomersley "Indicators of disturbance at a dredged material disposal site in Liverpool Bay, UK."

	An assessment using time-series data" coffee/tea
10:50-11:10	OP Titov "Saturation of the Barents Sea bottom waters by oxygen as indicator of changes of Northeastern Arctic cod recruitment abundance"
11:10-11:30	J Triguí "Evaluation of the ecological quality status of the tidal flat of the Bay of the Mont Saint Michel (France) through the use of four biotic indices"
11:30-11:50	I Muxika "M-AWMI and Water Framework Directive: a case study from the Basque Country"
11:50-12:10	S Rogers "Methods for evaluating the status of offshore soft sediment assemblages to inform marine assessments"
12:10-12:30	R Parker "Development of an integrated indicator of sediment biogeochemical and ecological status" lunch
13:30-16:30	Workshop: Unifying concepts: lessons learned and future needs Chair(s): John Roff (co-chair to be decided)
16:30-17:00	summary and recommendations symposium dinner
<b>Friday 23. November</b>	
Chair(s): Jeff Hyland (themes 2, 3, 4)	
09:00-09:30	Eva Royo Gelabert "Improving pan-European assessments: moving from 2005 to 2012"
09:30-09:50	AJ Kenny "Integrated assessment of the North Sea to identify indicators of the relationships between human pressures and ecosystem state changes - implications for marine management"
09:50-10:10	JE Thain "Biological effect measurements as indicators of ecosystem health"
10:10-10:30	SPR Greenstreet "Marine fish biodiversity in the North Sea: why do the politicians care but marine scientists appear oblivious?" coffee/tea
11:00-11:30	Michael Depledge "The role of indicators in the assessment of interconnections between ocean and human health"
11:30-11:50	M Parsons "Seabirds as marine environmental indicators - case studies at a range of geographical scales"
11:50-12:10	CSL Mercer Clarke "Back to the future - using landscape ecology to develop indicators of changing patterns of land use and effects on the sustainability of coastal ecosystems"
12:10-12:30	RJ Wood "Using indicators to link stressors, water quality, and living resource outcomes over a continuum of spatial scales in Chesapeake Bay" lunch
13:30	Closing address by Jeff Hyland and Mike Elliott