

## WGINOSE – Working Group on Integrated Assessments of the North Sea

### 2016/MA2/SSGIEA04

A Working Group on North Sea Integrated Assessments (WGINOSE), chaired by Andrew Kenny, UK, and Erik Olsen, Norway, will work on ToRs and generate deliverables as listed in the Table below.

	Meeting dates	Venue	Reporting details	Comments (change in Chair, etc.)
Year 2017	March 13 - 17	Bergen, Norway	Interim report by 1 <sup>st</sup> May to SSGIEA	
Year 2018	16-20 April	ICES HQ, Denmark	Interim report by 1 <sup>st</sup> May IEASG	
Year 2019	6–10 May 2019	Gothenburg, Sweden	Interim report by 14 May IEASG	
Year 2020	March	??	Final report by 1 <sup>st</sup> May to IEASG	

### ToR descriptors

ToR	DESCRIPTION	BACKGROUND	SCIENCE PLAN TOPICS ADDRESSED	DURATION	EXPECTED DELIVERABLES
a	Up-date strata specific ecosystem trends analysis utilising data from ICES Data Centre and other data sources, e.g. CPR, OSPAR, EEA and Member States.	a) Science Requirements b) Advisory Requirements c) Requirements from other EGs	1.1, 2.1  Input from relevant EWG	Years 1, 2 & 3	Regional sea state trend analysis for inclusion in eco-region overviews annually
b	Identify and develop additional strata and associated monitoring pro-programmes for the inshore/coastal areas of the North Sea and the Norwegian Trench.	a) Science Requirements b) Advisory Requirements c) Requirements from other EGs	1.1, 2.1  Input from relevant EWG	Years 1, 2 & 3	Regional sea state trend analysis for inclusion in eco-region overviews annually
c	Establish data pathways and obtain data to operationalise the integration of human activity and pressure data, distinguishing between fixed structures (e.g. pipelines, windfarms) and on-going activities (e.g. dredging, fishing, shipping, underwater noise, litter), accidents (emergency response).	a) Science Requirements	4.1	Years 1, 2 & 3	Recommendations and actions giving rise to the on-going improvement to flow of data between EWG, the ICES Data Centre and WGINOSE
d	Develop strata specific decision support tools to support ecosystem management and advice (e.g. BBNs and expert systems, ecosystem models, ecosystem goods and services modelling) in collaboration with end users (OSPAR, DG-ENV, DG-MARE)	a) Science Requirements	2.2, 2.3, 3.2, 3.3	Years 1, 2 & 3	Results which explore the balance and trade-offs between ecosystem protection and sustainable marine resource development

e	Contribute to the coordination and integration of strata specific assessments with the development of integrated ecosystem monitoring in the North Sea, e.g. redesign of the Q3 IBTS surveys.	a) Science Requirements b) Advisory Requirements c) Requirements from other EGs	1.1, 2.1  Input from relevant EWG	Years 1, 2 & 3	Regional sea state trend analysis for inclusion in eco-region overviews annually
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### Summary of the Work Plan

<b>Year 1</b>	The first year will focus on completing the assessment of North Sea strata structure and functions analysis as well as preparing a draft paper to be submitted in a peer review journal "appropriate spatial scales for North Sea Integrated Ecosystem Assessments"
<b>Year 2</b>	Mapping of human activity pressures data at scales appropriate to assessment strata in the North Sea, and to operationalise processes for up-dating the inclusion of such data on an annual basis
<b>Year 3</b>	Finalisation of modelling approaches to support the provision of ecosystem based management advice.

### Supporting information

Priority	The current activities of this Group will lead ICES into issues related to the development of Integrated Ecosystem Assessments for the North Sea (a data rich ecosystem) as a step towards implementing the ICES Science Plan and the ecosystem approach, these activities are considered to have a very high priority.
Resource requirements	Assistance of the Secretariat in maintaining and exchanging information and data to potential participants, especially the services of the ICES Data Centre to generate data tables for analysis from selected variables held in the database.
Participants	The Group is normally attended by some 10–20 members and guests.
Secretariat facilities	None.
Financial	No financial implications.
Linkages to ACOM and groups under ACOM	Relevant to the work of ACOM and SCICOM
Linkages to other committee: or groups	There is a very close working relationship with all the groups of IEASG. It is also very relevant to the EWG identified in WGHAME 2013 report.
Linkages to other organizations	OSPAR, EU, NAFO, NEAFC