



## **North Sea marine climate assessments**

John M. Huthnance

NERC National Oceanography Centre, Liverpool, Liverpool, United Kingdom (jmh@noc.ac.uk)

The North Sea Climate Change Assessment (NOSCCA) was published in 2016. Marine climate reporting is also carried out under the auspices of (inter alia) ICES, the UK Marine Climate Change Impacts Partnership (MCCIP), the OSPAR Convention (for the Protection of the Marine Environment of the North-East Atlantic) and the EU Marine Strategy Framework Directive (MSFD, 2008). The latter involve marine climate in a hydrographic sense as context for the ecosystem etc. Updates are now being prepared for MSFD reporting in 2018. Much effort goes into making these assessments suitable for their varied users with a multiplicity of concerns. This presentation will outline some aspects, especially physics, of NOSCCA and recent UK updates. It will also discuss how assessments might be improved by an appropriate or “efficient” combination of measurements, models and reporting. There is still much scope for research to enable such improvements.