

## Workshop on Regional climate change vulnerability assessment for the large marine ecosystems of the northern hemisphere (WKSICCME-CVA)

2016/2/SSGEPD07 A Workshop on Regional climate change vulnerability assessment for the large marine ecosystems of the northern hemisphere (WKSICCME-CVA), chaired by Myron Peck\* (Germany, ICES SICCME), Elliott Hazen\* (USA, PICES: (S-MBM, co-Chair SG-CERP)) and Kathy Mills\* (USA, ICES) will meet at the ICES Secretariat, Copenhagen, Denmark, 19–21 July 2017 to:

- a) Compare and contrast various vulnerability assessment approaches used for fisheries and aquaculture including their strengths and weaknesses;
- b) Discuss opportunities for comparative studies looking at the relative vulnerability of species in different LMEs;
- c) Discuss best practices for extending vulnerability assessments of marine fish and invertebrates to vulnerability of coastal communities and identify a suite of representative concentration pathways for use in vulnerability assessments in the northern hemisphere;
- d) Identify opportunities for operationalizing vulnerability assessment methods to enable updates (e.g., release of CMIP6 scenarios) and automating exposure assessments;
- e) Draft short statements on climate change impacts and vulnerability for regional ecosystem overviews produced at ICES and potentially other organizations.

WKSICCME-CVA will report by 10 September 2017 (via SSGEPD) for the attention of ACOM and SCICOM.

### Supporting Information

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Priority:	This workshop will contribute towards the ICES thematic areas: Understanding Ecosystem Processes and Dynamics (SSGEPD) and Ecosystem Pressures and Impacts (SSGEPI). Our focus will be on comparing previous (or ongoing) vulnerability assessments examining the exposure, sensitivity and adaptive capacity of living marine resources (fish and shellfish) and their dependent communities to climate change. This comparison is timely as separate groups have now established frameworks and SICCME can help coordinate future activities. Consequently, the activities of WKSICCME-CVA are considered to have a very high priority to ICES.
Scientific justification:	Climate change and ocean acidification pose significant risks to some marine species and the communities that depend on those species. Rapid assessment methods have been developed to assess these risks to marine life and humans based on qualitative ranking of risks based on a synthesis of data derived existing climate change projections and expert knowledge of the sensitivity of species or human communities to changing environmental conditions. These rapid vulnerability assessments typically involve an evaluation of the relative exposure and sensitivity of an organism to climate change. They are used to identify key gaps in on-going research and to identify potential risks to marine life and coastal communities. Task teams have been or are in the process of being formed to conduct vulnerability assessments in most of the ICES and PICES member nations. This workshop seeks to bring together scientists working on vulnerability assessments to discuss methods and analytical challenges.
Resource requirements:	The workshop is planned to take place at the ICES Secretariat. Meeting rooms and video conference facilities are required. Members of the ICES Secretariat are requested to help coordinate local (meeting) arrangements.

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Participants:	Researchers involved in previous or ongoing vulnerability assessments in ICES and PICES nations including representatives from regional (e.g. OSPAR, HELCOM, GFCM) and international (FAO, UNEP-WCMC) policy groups charged with fisheries and aquaculture advice and management.
Secretariat facilities:	The workshop is to be held at the ICES Secretariate. Meeting rooms and video conference facilities will be required.
Financial:	No funding is requested from ICES.
Linkages to advisory committees:	ACOM/SCICOM Steering Group on Integrated Ecosystem Observation and Monitoring (SSGIEOM)
Linkages to other committees or groups:	This workshop contributes to the SCICOM Steering Group on Ecosystem Processes and Dynamics (SSGEPD) and to the SCICOM Steering Group on Ecosystem Pressures and Impacts (SSGEPI)
Linkages to other organizations:	FAO, OSPAR, HELCOM, UNEP-WCMC
Publication of proceedings	A workshop report will be generated and it is envisioned that this will form a submission to a high-profile, peer-reviewed journal (e.g. Nature Climate Change, Global Change Biology).