

WKINTRA draft Resolution

2017/2/IEASG:05

The **Workshop on integrated trend analyses in support to integrated ecosystem assessment** (WKINTRA), chaired by Saskia Otto (Germany) and Benjamin Planque (Norway) will be established and meet in Hamburg, Germany on 28 September 2018.

The general objective of the workshop is to develop good practices in the application of integrated trend analyses (ITA) and interpretation of their results for integrated ecosystem assessment. The workshop will:

- 1) Compile an overview of current ITA methods and their use for marine IEA,
- 2) Review known performance and limitations of ITA methods for marine ecosystem datasets
- 3) Develop a protocol for the performance-evaluation of ITA methods

WKINTRA will report by 23 November 2018 for the attention of SCICOM.

Supporting information

Priority	The use of ITA is wide spread in the ICES integrated ecosystem assessment community, and recent publications have challenged the interpretation of its results. Thus the priority should be considered medium to high.
Scientific justification	The publication of Planque and Arneberg (2018) has highlighted issues with the use and interpretation of PCA approaches for examining time trends across variables in integrated ecosystem assessments. Integrated trend analysis (ITA) are a commonly used technique in the ICES integrated ecosystem assessment groups. Concerns were raised by the Workshop on Integrated Ecosystem Assessment methods (WKIDEA) in 2016. WKIDEA recommended that the types of data preparation and subsequent ITA should be examined if to become a key steps in underpinning ecosystem advice. Planque, B. and Arneberg, P. Principal component analyses for integrated ecosystem assessments may primarily reflect methodological artefacts – ICES Journal of Marine Science, 75: 1021–1028
Resource requirements	No major resourcing
Participants	Statisticians and researchers from across the ICES network and beyond. Number of participants expected: 12-20.
Secretariat facilities	None.
Financial	No financial implications for ICES.
Linkages to advisory committees	Link to ACOM through the development of ecosystem overviews
Linkages to other committees or groups	Links across all ICES IEA working groups
Linkages to other organizations	Links to IEA groups in the Arctic and PICES Working Groups working on similar topics.