

WKINTRA3 - The third workshop on integrated trend analyses in support to integrated ecosystem assessment

2019/WK/IEASG09 **The third workshop on integrated trend analyses in support to integrated ecosystem assessment (WKINTRA3)**, chaired by Saskia Otto*, Germany, and Benjamin Planque*, Norway, will meet in 8-10 December 2020 at ICES HQ, Copenhagen, Denmark.

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

- a) Review the simulated multivariate ecological datasets prepared during and following WKINTRA2 ([Science plan codes](#) 1.3 and 1.9)
- b) Evaluate a selection of Integrated Trend Analysis (ITA) methods ([Science plan codes](#) 1.3 and 1.9).

For this:

- a set of ITA methods will be selected,
 - the R code to run the analyses will be provided,
 - method-specific qualitative or quantitative criteria will be defined that allow for an objective comparison across simulated datasets
 - the ITA methods will be applied on relevant simulated datasets outcomes will be assessed on a case study- and approach-specific basis
- c) Develop guidelines for IEA groups to evaluate ITA methods, including a comprehensive documentation of data generation and method application using the R environment ([Science plan code](#) 6.5)

WKINTRA3 will report by 1 February 2021 for the attention of IEASG.

Supporting Information

Priority	The use of ITA is widespread 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 first workshop on integrated trend analyses in support to integrated ecosystem assessment (WKINTRA) recognized some of the limitations in the ITA methods currently used as a standard tool by ICES IEA groups. It was recommended to approach the evaluation problem through simulation studies, in a way similar to that used earlier in ICES for stock assessment models (ICES, 1993). The second workshop (WKINTRA2) developed and compared numerical simulation protocols and algorithms, with the aim of simulating few contrasted ecosystem datasets. These will form the basis of ITA methods evaluation for the intended WKINTRA-3 workshop.
Resource requirements	No major resourcing
Participants	Statisticians and researchers from across the IEASG network.
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.
