

Challenges in Implementing Assessment and Management of Data Limited Stocks and Fisheries:

IIFET Open Session & Stakeholder Perspectives

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$$M2_i = \frac{\sum_j \frac{dR_j}{dt} N_j \frac{\varphi_{ji}}{\varphi_j}}{N_i w_i}$$

$$\Delta \int_a^b \varepsilon \Theta + \Omega \int \delta e^{i\pi} = \{2.71828182\}$$

$$\chi^2 \Sigma!$$

Challenges in Implementing Stock Assessment, Economic Fishery Analysis, and Risk Assessment for Sustainable Management Strategies of Data Poor Stocks

Scope of the Open Session:

- Current status, challenges, needs and future perspectives for:
 - Implementing management advice from ecological / economic assessment of data poor stocks and fisheries;
 - Methods, models and MSE tools to evaluate ecological sustainability, economic efficiency, and risks in exploiting data poor stocks caught in mixed, small scale, and indigenous fisheries.



Scope of the Open Session:

Focus On:

- Accessibility of models and their development to ensure widespread, open access, and user-friendly availability, operation and implementation;
- Data requirements and availability for those models;
- Ways to link economic assessment, risk assessment, and MSE with biological assessment according to sustainable harvest;
- How to link current methods from ICES (e.g. ICES WKLIFE V-VIII) with economic evaluations and methods related to IIFET and Research Projects to enable integrated ecological-economic advice for data poor stocks and fisheries?



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Structure of the Open Session:



Session Presentations by:

- Tobias Mildenberger *et al.*, DTU (DK)
- Josh Nowlis *et al.*, NOAA Fisheries, NMFS, NWFSD (USA)
- Shinta Yuniarta *et al.*, Bogor Agricultural University (West Java, Indonesia) and WUR (NL).
- Marie-Christine Rufener *et al.*, DTU (DK)



Invited Stakeholder Perspectives by:

- Bent Pallisgaard: Danish Ministry of Foreign Affairs, Fisheries Policy (DK);
- Michael Andersen: Danish Fishermen Producer Organization (DK);
- Mark Dickey-Collas: International Council for Exploration of the Sea (ICES);
- Sean Pascoe: CSIRO (AUS)
- Olivier Thébaud: AMURE, IFREMER (F)
- Hazel Curtis: SEAFISH Scotland (UK, Scotland)
- Eric Thunberg: NOAA, NE Fisheries Centre (USA)

