

Invitation to the annual 2019 meeting of the ICES Working Group on Integrated Physical-biological and Ecosystem Modelling (WGIPEM)

Monday, March 25th to Friday, March 29th, 2019

Institute of Marine Research (IMR)

Nordnesgaten 50

5005 Bergen, Norway



We are starting a new 3-years phase of WGIPEM and have defined four new ToRs, which we hope will inspire the group work and discussions. Morgane Travers-Trolet has stopped as the chair and we thank her the last 4 years of commitment. Solfrid Sætre Hjøllø from IMR, Norway, will take over as co-chair and Marie Maar from Aarhus University, Denmark, will continue as chair.

For the meeting in March 2019, we are planning to have several interactions with other ICES WG's and to have both scientific presentations and discussions. We will start Monday at 14h and finish Friday noon after final reporting.

The 4 new ToRs are:

a) Improve model interactions between trophic levels by:

- investigating the importance of spatio-temporal scales for trophic match–mismatch
- assessing human activities effects on ecosystems, including cumulative impacts

b) Improve lower trophic level models by investigating:

- parametrization of functional diversity (community structure, traits) and adaptations
- patterns and drivers of plankton phenology and productivity across models and ecosystems
- benthic-pelagic coupling in models

c) Improve higher trophic level models by investigating:

- effects of connectivity, climate and habitat on emerging species distribution, to support management and fisheries
- key process formulation (mortality, physiological rates...)
- movement algorithms

d) Assessment of model skill evaluation methods by:

- Comparison of existing "guidelines" and metrics of skill assessment using existing examples and applying these methods to models used by the group to conclude on the feasibility of the currently existing approaches and identify possible weakness
- investigate uncertainty analysis (structural, parameters, scenarios) including model ensemble

Looking forward to hear from you! Please reserve the dates and register to the meeting before **1st March** to Marie: mam@bios.au.dk and send titles of your presentation(s) and indicate which ToR they belong to.

Best regards,

Solfrid and Marie