S-CCME/SICCME Workshop on integrated modeling

to identify climate change tipping points in marine ecosystems.

*April 16th, 9:00 am – 5:00 pm*

Overview

Marine ecosystems are increasingly impacted by multiple climate change and non-climate stressors that are pushing some systems and species towards or past tipping points (critical points where a small change in a pressure or driver can induce a disproportionate change in system dynamics). The goal of this workshop is to draw upon recent PICES and ICES working group efforts to synthesize findings and outputs from recent integrated modeling projects across the globe. In particular, the workshop will review evidence and case studies for historical and future tipping points and thresholds in marine ecosystems to help support climate-informed management advice.

[WK5 Tipping Points workshop Registration](https://forms.gle/VFgYettt69fdb58u9)

Potential Outcomes

1. Github repository with example R code for identifying tipping points in marine systems
2. Peer review publication of emergent approaches, case studies, and considerations of tipping points and thresholds for climate informed fisheries and ecosystem management advice

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| 0900-0910 | **Introductions** (Convenors; Participants) |
| 0910-1000 | **Overview**: Tipping points and thresholds |
| 1000-1030 | **Invited speaker Christian Möllmann:Consequences of ignoring tipping point dynamics in Western Baltic cod** |
| 1030-1100 | COFFEE |
| 1100-1145 | **Lightning talks** on integrated modeling, thresholds, and tipping points |
| 1145-1230 | **Code overview** and demo; afternoon breakout group instructions |
| 1230-1330 | LUNCH ON YOUR OWN |
| 1330-1430 | **Breakout Groups** on 2-3 Themes |
| 1445-1515 | Reconvene in **W5 Plenary** for Breakout Group Reports |
| 1515-1530 | COFFEE |
| 1530-1600 | **Planning Next Steps & Network Development** |
| 1600-1700 | **Plenary of all ECCWO Workshops** |
| 1700 | WORKSHOP ENDS |
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