

Models:

(1) Promote using modern languages and applications

Use AI:

- Parameter estimation
- Subgrid physics
- Use AI to connect marine species to environmental conditions (e.g. habitat suitability modelling)

(2) BGC: promote the use common framework for coding to facilitate international sharing and coupling BGC and a range of physical models

- Framework for Aquatic Biogeochemical Modelling (FABM) as an option
- (physical model agnostic BGC)
- online: couplers?

(3) focus on coupled ice-ocean prediction: across scales

(4) With onset of community models, AI: Maintain expertise in numerics? Physical processes?

Fishery management: explore connections of fish stocks to physics, esp. on long time scales

Mechanisms:

- Summer schools (propose topics)
- Focused workshops (sea ice?)
- Offer training at events like Gordon Research Seminar
- Funding these activities? Fundraising?

Improve physics

Biooptical coupled models