Physical-biological interactions at the (sub)mesoscale

Report from the Breakout Group

Key Points

Objectives:

- Understand the role of meso-scale variations in shaping the *mean state* of the system.
- Develop parameterizations for the use in predictive models

Target Processes:

A large suite were proposed, e.g.

- frontogenesis - enhanced production/subduction
- lateral transports by eddies (e.g. coastal-open ocean, Southern Ocean,

Key Points (cont)

Approaches:

Likely requires combined approach, i.e.
- Eulerian/Lagrangian sampling
- suite of platforms (e.g. towed systems)
- large suite of sensors (e.g. particle size distribution, phytoplankton assemblage)

Regions:

Predictability:
- regions of strong lateral gradients
- topographic control
- synergies with physical programs