

Science Objectives



The Challenges of the Oceans

- Challenge 1: Quantify the interaction between variability in ocean dynamics, thermohaline circulation, sea level, and climate.
- Challenge 2: Understand physical and bio-chemical air/sea interaction processes.
- Challenge 3: Understand internal waves and the mesoscale in the ocean, its relevance for heat and energy transport and its influence on primary productivity.
- Challenge 4: Quantify marine-ecosystem variability, and its natural and anthropogenic physical, biological and geochemical forcing.
- Challenge 5: Understand land/ocean interactions in terms of natural and anthropogenic forcing.
- Challenge 6: Provide reliable model- and data-based assessments and predictions of the past, present and future state of the ocean.



