



IMBER Open Science Conference

FUTURE OCEANS

23-27 June 2014

Bergen, Norway

**To highlight IMBER research results;
To promote integrated syntheses of IMBER-relevant research;
To discuss a new global research agenda on marine biogeochemistry and
ecosystems in the Anthropocene.**

Scientific Organising Committee

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Tore Furevik, University of Bergen, Bergen, Norway
Christoph Heinze, University of Bergen, Norway
Svein Sundby, Institute of Marine Research, Norway
Lisa Maddison, IMBER International Project Office, Norway

www.imber.info

imber@imr.no

Sessions

A - Ocean Observations and Modelling

A1 - The ocean carbon cycle at a time of change: data syntheses, analyses and modelling

A2 - Synthesis of ecological and biogeochemical variability determined from time-series Eulerian and large spatial scale transect observations

A3 - Modelling and data synthesis of marine planktonic ecosystems using functional types and trait-based approaches

A4 - End-to-end modelling for research and management

B - Lower Trophic Level Processes and Dynamics

B1 - The dark ocean: recent progress in understanding the functioning of the ocean's largest subsystem

B2 - Microbial and geochemical perspectives of global carbon cycling and climate change: from genes to ecosystems, from ancient to current

B3 - The pivotal role of the mesopelagic functional groups in biogeochemical cycles

B4 - Ocean biogeochemical dynamics under changing climate: feedbacks and impacts

C - Higher Trophic Level Processes and Dynamics

C1 - Beyond 'Z': what modelers need and empiricists have to offer to better incorporate higher trophic levels and humans in end-to-end models

C2 - Not so simple: developing robust approaches to the use of indicators for ecosystem based fisheries management

C3 - Integrated studies of the impact of climate change on marine ecosystems

D - Ocean Sustainability

D1 - Marine environmental status and biodiversity: from structure to functionality, delivering ecosystem services

D2 - Communities of practice for supporting long-term sustainability of the world's oceans

D3 - Responses of society to marine and global changes as a core mandate for IMBER: ways forward (co-sponsored by PICES)

D4 - Future Oceans' stewardship: roles, responsibilities and opportunities in small-scale fisheries

D5 - Tracking for conservation

E - IMBER Regional Programmes – Synthesis and New Research Directions

E1 - Changing ecosystems in Subarctic and Arctic regions

E2 - Detecting, projecting and managing the impacts of change in Southern Ocean ecosystems

E3 - Biogeochemical and ecological impacts of boundary currents in the Indian Ocean

F- Regional Studies – Responses to Drivers and Stressors

F1 - Climate-biogeochemistry interactions associated with open-ocean oxygen minimum zones

F2 - Regional responses to climatic and non-climatic drivers in a high-CO₂ ocean

F3 - Impacts of anthropogenic stressors and climate change on biogeochemistry-ecosystem in continental margins and feedbacks to earth system and society: Challenges and solutions

F4 - Environmental changes in Eastern Boundary Upwelling Systems: drivers, mechanisms and implications for the ecosystems

G - IMBER Focus Activities

G1 - Contributions to IMBER Research

G2 - IMBER National Programme Contributions Poster Session

Workshops

W1 - Capacity Development for IMBER

W2 - Data Management for IMBER

W3 - A view towards integrated Earth System models: human-natural system interactions in the marine world

W4 - Communities of practice for supporting long-term sustainability of the world's oceans

W5 - Marine regime shifts around the globe: the societal challenges

W6 - Paradigm shift in plankton ecology: the central role of mixotrophic protists in future oceans

W7 - Approaches to predicting fish from physics: strengths, weaknesses and ways forward

W8 - Beyond 'Z': what modelers need and empiricists have to offer to better incorporate higher trophic levels and humans in end-to-end models

W9 - Eastern Indian Ocean upwelling research initiative planning Workshop Phase 3: physical dynamics and ecosystem responses