

| Sunday 22 June   | Monday 23 June  | Tuesday 24 June   | Wednesday 25 June  | Thursday 26 June   | Friday 27 June   |
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| <p>Registration</p> <p><b>Parallel Workshops</b></p> <p>Capacity Development for IMBER</p> <p>Data Management for IMBER</p> <p>Scientific Peer Review and Publication for Young Marine Researchers</p> <p>Ice breaker<br/>Radisson Blue Hotel, Bryggen</p> | <p>Registration</p> <p><b>Parallel Workshops</b></p> <p>A view towards integrated Earth System models: human-natural system interactions in the marine world</p> <p>Communities of practice for supporting long-term sustainability of the world's oceans</p> <p>Marine regime shifts around the globe: the societal challenges</p> <p>Paradigm shift in plankton ecology: the central role of mixotrophic protists in future oceans</p> <p>Approaches to predicting fish from physics: strengths, weaknesses and ways forward</p> <p>Beyond 'Z': what modellers need and empiricists have to offer to better incorporate higher trophic levels and humans in end-to-end models</p> <p>Eastern Indian Ocean upwelling research initiative planning Workshop Phase 3: physical dynamics and ecosystem responses</p> <p>Surface Ocean CO2 Atlas (SOCAT) Community Event</p> <p><b>Workshop Poster Session</b></p> <p>Reception – Håkonshallen</p> | <p>Registration</p> <p><b>Opening</b></p> <p>Moderator: Eileen Hofmann, Old Dominion University, USA</p> <p>Tore Nepstad, Managing Director, Institute of Marine Research, Bergen</p> <p>Dag Rune Olsen Rector University of Bergen, Bergen</p> <p>09:00 Eileen Hofmann<br/><i>Introduction to the IMBER OpenScience Conference</i></p> <p><b>Plenary session 1</b></p> <p>Moderator: Julie Hall, National Institute of Water and Atmospheric Research, New Zealand</p> <p>Nicolas Gruber, ETH Zurich, Switzerland Warming up, turning sour, losing breath: The regional perspective</p> <p>Kon-Kee Liu, National Central University, Taiwan Anthropogenic impacts on biogeochemical processes and ecosystems in continental margins</p> <p>Coffee/Tea</p> <p><b>Parallel session 1</b></p> <p>A1.1 – The ocean carbon cycle<br/>A3.1 – Marine planktonic ecosystems<br/>B2.1 – Microbial and geochemical perspectives<br/>D1.1 – Marine environmental status and biodiversity<br/>D2.1 – Communities of practice<br/>E1.1 – Subarctic and Arctic regions<br/>E3.1 – Boundary currents in the Indian Ocean<br/>F3.1 – Continental margins</p> | <p>Registration</p> <p><b>Plenary session 2</b></p> <p>Moderator: Raleigh Hood, UMCES Horn Point Lab., USA</p> <p>General Introduction<br/>Coleen Moloney, Ma-Re Institute, University of Cape Town, South Africa Food web and biogeochemistry in a changing marine environment</p> <p>Jean-Pierre Gattuso, CNRS, Laboratoire d'Océanographie de Villefranche, France Drivers of, and responses to, ocean acidification</p> <p>Introduction to IMBER synthesis and future directions</p> <p>Coffee/Tea</p> <p><b>Parallel session 4</b></p> <p>A1.4 – The ocean carbon cycle<br/>A4.1 – End-to-end modelling<br/>C3.2 – Impact of climate change<br/>D1.4 – Marine environmental status and biodiversity<br/>D3.1 – Responses of society<br/>E1.4 – Subarctic and Arctic regions<br/>F2.1 – High-CO<sub>2</sub> oceans<br/>F4.1 – Eastern Boundary Upwelling Systems</p> <p>12:30-14:00 Lunch and Posters</p> <p><b>Parallel session 5</b></p> <p>A1.5 – The ocean carbon cycle<br/>A4.2 – End-to-end modelling<br/>B3.1 – Mesopelagic functional groups<br/>C3.3 – Impact of climate change<br/>D1.5 – Marine environmental status and biodiversity<br/>D3.2 – Responses of society<br/>F2.2 – High-CO<sub>2</sub> oceans<br/>F4.2 – Eastern Boundary Upwelling Systems</p> | <p>Registration</p> <p><b>Plenary session 3</b> Moderator: Ratana Chuenpagdee, C Memorial University, Canada</p> <p>General Introduction<br/>Alida Bundy, Bedford Institute of Oceanography, Canada Dead ends and grasping hands: failed governance and the need to integrate human-ocean interactions into global change research</p> <p>Corinne Le Quéré, University of East Anglia, United Kingdom<br/>Perspective on Future Earth</p> <p>Introduction to the discussion on future research questions and science directions</p> <p>10:15-10:45 Coffee/Tea</p> <p>10:45-12:30 <b>Break-out Groups</b><br/>Discussion on future research questions and science directions. Break out topics will be announced.</p> <p>12:30-14:00 Lunch and Posters</p> <p><b>Parallel session 7</b></p> <p>A2.1 – Synthesis of ecological and biogeochemical variability<br/>B1.2 – The dark ocean<br/>B4.2 – Biogeochemical dynamics under changing climate<br/>C3.5 – Impact of climate change<br/>D3.3 – Responses of society<br/>E2.2 – Southern Ocean ecosystems<br/>F1.1 – Oxygen minimum zones<br/>F2.4 – High-CO<sub>2</sub> oceans</p> <p>Coffee/Tea</p> | <p><b>Plenary session 4</b><br/>Moderator: Ian Perry, Fisheries and Ocean Canada, Canada</p> <p>General Introduction<br/>Claudio Campagna, Wildlife Conservation Society, Argentina Species and spaces in the ocean: From sustainability to conservation</p> <p>Alistair Hobday, CSIRO, Australia<br/>Climate change impacts and adaptation options for high trophic level marine species</p> <p>Coffee/Tea</p> <p><b>Parallel session 8</b></p> <p>A2.2 – Synthesis of ecological and biogeochemical variability<br/>B1.3 – The dark ocean<br/>B4.3 – Biogeochemical dynamics under changing climate<br/>C1.1 – Beyond 'Z'<br/>C3.6 – Impact of climate change<br/>D3.4 – Responses of society<br/>D5.1 – Tracking for conservation<br/>F1.2 – Oxygen minimum zones</p> <p>Eugene Murphy, British Antarctic Survey, UK<br/>Wrap-up on future research questions and science directions and conference synthesis</p> <p><b>Closing</b></p> |

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|  |  | <p style="text-align: center;"><b>Lunch and Posters</b></p> <p style="text-align: center;"><b>Parallel session 2</b></p> <p>A1.2 – The ocean carbon cycle<br/> A3.2 – Marine planktonic ecosystems<br/> B2.2 – Microbial and geochemical perspectives<br/> D1.2 – Marine environmental status and biodiversity<br/> D2.2 – Communities of practice<br/> E1.2 – Subarctic and Arctic regions<br/> E3.2 – Boundary currents in the Indian Ocean<br/> F3.2 – Continental margins</p> <p style="text-align: center;">– Coffee/Tea</p> <p style="text-align: center;"><b>Parallel session 3</b></p> <p>A1.3 – The ocean carbon cycle<br/> A3.3 – Marine planktonic ecosystems<br/> B2.3 – Microbial and geochemical perspectives<br/> C3.1 – Impact of climate change<br/> D1.3 – Marine environmental status and biodiversity<br/> D2.3 – Communities of practice<br/> E1.3 – Subarctic and Arctic regions<br/> F3.3 – Continental margins</p> <p style="text-align: center;"><b>Poster Session</b></p> | <p style="text-align: center;">– Coffee/Tea</p> <p style="text-align: center;"><b>Parallel session 6</b></p> <p>A1.6 – The ocean carbon cycle<br/> B1.1 – The dark ocean<br/> B4.1 – Biogeochemical dynamics under changing climate<br/> C3.4 – Impact of climate change<br/> D1.6 – Marine environmental status and biodiversity<br/> D4.1 – Future Oceans’ stewardship<br/> E2.1 – Southern Ocean ecosystems<br/> F2.3 – High-CO<sub>2</sub> oceans</p> <p style="text-align: center;"><b>Poster Session</b></p> | <p style="text-align: center;"><b>Break-out Group</b><br/> <b>Reports and Discussion</b><br/> <b>Conference dinner –</b><br/> Fløyen Restaurant</p> |  |
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