

Supplemental Information

Table S1. Summary of IMBER across-project and capacity building activities. The theme, date and location, and products are given for each activity. Details of specific activities are given in the text.

Activity	Theme	Date and Location	Products
Data Management 'BEER' Workshop	Being Efficient and Environmentally Responsible	November 2008, Miami, FL, USA	Goals: <ul style="list-style-type: none"> <li>to enhance awareness of the need to establish data management procedures early in the research process</li> <li>to highlight the advantages arising when such procedures are followed</li> </ul>
Data Management Workshop	Data Management Cruise	2010, Greece	Presentation of the Data Management Cookbook, <i>A Practical Guide to Good Data Management and Storage</i> (Pollard et al. 2011)
Data Management Workshop	Natural and Social Science Data Management Workshop	January 2013, Goa, India	Goals: <ul style="list-style-type: none"> <li>to provide real-world examples of data management procedures as implemented in IMBER research projects</li> <li>to cover recommendations specific to management of social science data,</li> <li>to identify gaps that might exist in the data management needs of IMBER research projects</li> </ul>

ClimEco Summer School	Climate Driving of Ecosystem Changes	April 2008, Brest, France	Capacity building: 30 participants from 13 countries; about 40 additional participants followed the lectures online
E2E EcoModel Summer School	Analysis of End-to-End Food Webs and Biogeochemical Cycles	August 2008, Ankara, Turkey	Capacity building; 22 participants from 11 countries
ClimEco2 Summer school	Oceans, Marine Ecosystems, and Society Facing Climate Change: A Multidisciplinary Approach	August 2010, Brest, France	Capacity building: 70 participants from 26 countries  Lectures broadcast live and videos are available on the IMBER website
ClimEco3 Summer school	A View Towards Integrated Earth System Models. Human-nature Interactions in the Marine World	July 2012, Ankara, Turkey	Capacity building: 48 participants from an array of natural and social science backgrounds from 25 countries  Lectures broadcast live and videos are available on the IMBER website
ClimEco4 Summer school	Delineating the Issues of Climate Change and Impacts to Marine Ecosystems: Bridging the Gap Between Research, Assessment, Policy and Management	August 2014, Shanghai, China	Capacity building: 51 participants from 22 countries, mostly developing countries  Lectures broadcast live and videos are available on the IMBER website
5 <sup>th</sup> IMBER China-Japan-Korea symposia and training program	Global Ocean Ecosystem Dynamics, Integrated Marine Biogeochemistry and Ecosystem Research	November 2011, Shanghai, China	Capacity building: 101 participants attended the training program; 21 were students  Anthropogenic Forcings and Climate Change in the Northern Pacific Region, <i>Eos</i> 93 (15), 10 April 2012

<p>6<sup>th</sup> IMBER China-Japan- Korea symposium</p> <p>Training program</p>	<p>Ocean Ecosystem Dynamics and Integrated Marine Biogeochemistry and Ecosystem Research</p>	<p>October 2013, Tokyo, Japan</p>	<p>Capacity building: 54 participants from China (including Taiwan), Japan and Korea</p>
<p>IMBIZO I</p>	<p>Integrating Biogeochemistry and Ecosystems in a Changing Ocean</p>	<p>November 2008, Miami, USA</p>	<p><i>Ecological and Biogeochemical Interactions in the Dark Ocean, Deep-Sea Research II, Vol. 57(16), 2010, Eds. Steinberg and Hansell</i></p> <p>More than 60 participants contributed to good data management practices for a Data Management Cookbook</p>
<p>IMBIZO II</p>	<p>Integrating Biogeochemistry and Ecosystems in a Changing Ocean: Regional Comparisons</p>	<p>October 2010, Heraklion, Greece</p>	<p><i>Large-scale regional comparisons of marine biogeochemistry and ecosystem processes - research approaches and results, Journal of Marine Systems, Vol. 1090110, 2013, Eds. Hood, Drinkwater, and Mihalopoulos</i></p> <p><i>Sensitivity of marine food webs and biogeochemical cycles to enhanced stratification, Progress in Oceanography, Vol. 119, 2013, Eds. Landry and Kishi</i></p> <p>IMBIZO II: JGOFS meets GLOBEC in Crete, <i>Limnology and Oceanography Bulletin</i>, 2010</p>

IMBIZO III	The Future of Marine Biogeochemistry, Ecosystems and Societies	January 2013, Goa, India	<p><i>The impact of anthropogenic perturbations on open ocean carbon transformation, export and sequestration</i>, Biogeosciences, Vol. 10, 2013, Eds. Robinson, Azam, Jiao, Thomas</p> <p><i>Biogeochemistry-ecosystem interaction on changing continental margins in the Anthropocene</i>, Journal of Marine Systems, Vol. 141, 2015, Eds. Liu, Emeis, Levin, Naqvi, Roman</p> <p>The Future of Marine Biogeochemistry, Ecosystems and Societies, <i>Eos</i>, Vol. 94, No. 20, 14 May 2013</p> <p><i>Global change, human-ocean interactions and ways forward</i>. Regional Environmental Change, in press, Eds. Bundy and Chuenpagdee</p>
IMBIZO IV	Marine and Human Systems – Addressing Multiple Scales and Multiple Stressors	October 2015, Trieste, Italy	<p>Scientific and grant writing workshops</p> <p>Synthesis papers and special issues in preparation</p>
<i>Future Oceans</i> Open Science Conference	Research for Marine Sustainability: Multiple Stressors, Drivers, Challenges and Solutions	June 2014, Bergen, Norway	<p>Almost 500 participants from 48 countries, including 16 developing countries</p> <p>Scientific writing, capacity building and data management workshops</p>

			<p>More than 60 students and researchers from developing countries participated in the mentoring program</p> <p>Provided community inputs for development of a new IMBER Science and Implementation Strategy</p> <p>Synthesis papers and special journal issues</p>
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