

REPORTING FORM 2024

Please return completed form to imber@ecnu.edu.cn by **20th July**

REPORTING PERIOD: WHAT YOU HAVE DONE since the annual report submitted for the SSC meeting held in Paris in April 2023 ([Link to past annual reports](#))

and **PLANNED ACTIVITIES** over the next year (and beyond if details available)

N.B. The form focuses reporting on the research objectives (2022-2025) of the Grand Challenges (in order to align with how we are addressing IMBeR's commitments defined in the 5-year review process to SCOR and Future Earth).

Thank you.

Insert name of Synthesis Activity

List authors

1. Ongoing activities, in line with the IMBeR Grand and Innovation Challenges

(Among other uses, information will be used to update the [IMBeR Annual Report to SCOR](#))

1.a. Grand Challenge I

Understanding and quantifying the state and variability of marine ecosystems - with focus on Research Objectives 1 to 3:

Research Objective 1. *Evaluate and predict the cumulative effect of multiple stressors*

Research Objective 2. *Integration of climate change and climate variability*

Research Objective 3. *Impacts on society – preparation for a changed future*

Add text...

1.b. Grand Challenge II

Improving scenarios, predictions and projections of future ocean-human systems at multiple scales - with focus on Research Objectives 4 to 6:

Research Objective 4. *Development of integrated data systems and approaches for predictions and projections*

Research Objective 5. *Development of predictive models and projections for use at regional scales*

Research Objective 6. *Development of alternative scenarios to bridge the gap between physical climate sciences and humanities*

Add text...

1.c. Grand Challenge III

Improving and achieving sustainable ocean governance - with focus on Research Objectives 7 to 9:

***Research Objective 7.** Develop knowledge on best practices for multilevel governance approaches to ocean climate adaptation and mitigation*

***Research Objective 8.** Develop understanding on key ingredients for transformation towards more sustainable, equitable and inclusive governance approaches to fisheries and aquaculture*

***Research Objective 9.** Support implementation of post-2020 biodiversity targets for marine spatial planning and marine protected areas*

Add text...

1.d. Innovation Challenge 3

To advance understanding of ecological feedbacks in the Earth System

Add text...

1.e. Innovation Challenge 4

To advance and improve the use of social science data for ocean management, decision making and policy development

The main Activity 1 that IC4 has been engaged in 2023-2024 is the initiative to identify best practices in integrating social and natural science data in upscaling from local to global application, based on around 10 case studies across the globe. This includes assessing from which critical areas of human impact on the ocean these case studies emerge. This activity is envisaged as a participatory process of co-development of knowledge among a network of collaborating partners, leading to a peer-reviewed journal paper. The output of this initiative is aimed to contribute Activity 3, which is an outreach initiative at an IMBeR-related event to share results and engage in a discussion with partner organizations to generate a template/format to integrate social and natural science data to upscale application from local to global levels.

Under Activity 1, the IC4 team held two sets of Zoom meetings (27 April and 4 May 2023, as well as 24 October 2023 to cover the different time zones) with representatives from 9 collaborating institutions across the globe. The preliminary meeting, which began with an introduction to the collaborators, discussed the objectives of the case studies initiative, the format and levels of engagement and the themes to be explored in the case studies. This was followed by an on-line discussion on clarifying concepts and further delineating the themes under study. Then a second meeting was held to consolidate the methodology of the case studies, including a preliminary discussion on a draft questionnaire, and to agree upon the format for future collaboration. This was followed by further on-line discussion until the questionnaire was finalised. The final version of the questionnaire was sent out to collaborators at the end of January 2024. As responses were not received by the deadline in

IC4

Preliminary Meeting I: Case Studies of Best Practices in Integrating Social and Natural Sciences Initiative, 27 April & 04 May 2023 via Zoom.

Participants:

27 April 2023, 10.00-11.30 UTC (on-line)	04 May 2023, 15.30-17.00 UTC (on-line)
Michael Gilek, Södertörn University, Stockholm, Sweden Naveen Namboothri, Dakshin Foundation, Bangalore, India Pilar Haye, Alterna Instituto Milenio en Socio-ecología Costera/ Coastal Social-Ecological Millennium Institute (SECOS), Chile Stefan Gelcich, Alterna Instituto Milenio en Socio-ecología Costera/ Coastal Social-Ecological Millennium Institute (SECOS), Chile Tony Charles, SSF Stewardship Network, Saint Mary's University, Canada Andrea Belgrano, Swedish University of Agricultural Sciences/Göteborg University, Sweden Luciana Araujo, IEE/University of São Paulo, Brazil Nireka Weeratunge, ICES, Colombo, Sri Lanka	Louise Gammage, University of Cape Town, South Africa Lynne Shannon, University of Cape Town, South Africa Nathan Bennett, IUCN, Canada Sebastian Villasante, University of Santiago de Compostela, Spain Andrea Belgrano Nireka Weeratunge

Following introductions to collaborators and their institutions, this preliminary meeting discussed the objectives of the initiative, proposed format and levels of engagement, and proposed themes for exploration in the case studies.

Meeting II: IC4 Case Studies of Best Practices in Integrating Social and Natural Sciences Initiative, 23 October 2023 via Zoom.

Participants

6.00-7.15 UTC (on-line)	15.00-16.15 UTC (on-line)
Michael Gilek Lynne Shannon Andrea Belgrano Nireka Weeratunge	Nathan Bennett Tony Charles Louise Gammage Pilar Haye Kelly Ortega Cisneros, University of Cape Town, South Africa

	Yoshitaka Ota, Ocean Nexus, Japan/University of Washington, USA Luciana Araujo Andrea Belgrano Nireka Weeratunge
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The objectives of this meeting was to consolidate the methodology of the case studies, including a draft questionnaire, and further discuss the format of collaboration. Conceptual issues such as definitions of ‘integration’, ‘data’, ‘best practices’ and ‘success’ were discussed at length, as well as the themes, sub-themes and format of the draft questionnaire. It was decided to continue the discussion on the sub-themes and specific questions and finalise the questionnaire on-line, due to time constraints of collaborators, before it was received by the collaborators for completion.

3. International collaboration and links

Add text...

4. Input to management, policy and SOCIETY* over the last year

Add anything that is not covered under “1.c. Grand Challenge III”

**As previous reporting forms requested ‘input to management and policy’ only, please add any ‘input to society’ not captured in previous reports*

Add text...

5. Education, outreach and Capacity Development

Add text...

6. Planned activities

6.a. Activities and Outreach and how they link to the Challenges (including, but not limited to convening sessions, meetings, summer schools, workshops, etc)

IC4

If the case studies initiative (Activity 1) were to be continued, we aim to produce a peer-reviewed journal paper by the end of the year. The results of this study were intended to be shared at an IMBeR-related event, if such an event were to be available in the future.

6.b. Upcoming papers (Community-Position-Review-etc)

Add text...

7. Funding

7.a. Funding from external sources

7.b. Funding proposals in progress or planned

7.c. Funding requested from IMBeR for 2024-2025

Include a brief budget and justify requests

8. Changes to Organisational Structure

Add text...

9. Images / Figures

****It is always good to have some recent photos / figures / infographics to create more exposure for the Regional Programmes, Working Groups, etc. These can range from those suitable for a very scientific audience, to those that would engage the general public. IMBeR would use these, on the website (e.g. <http://www.imber.info/> and <http://www.imber.info/en/news>), in tweets (@imber_ipo), in presentations, etc. In addition, Future Earth (one of our sponsors) regularly asks us to provide high quality images for their glossy reports. These can highlight the activities of IMBeR and their other Global Research Projects (see pdfs of past Future Earth reports here <https://futureearth.org/publications/annual-reports/>)*

*So, please provide any images that you might think are useful. These can be pasted in this document or emailed as an attachment to imber@ecnu.edu.cn.****

10. Anything not covered above

Add text...

11. How to improve this form

Please give suggestions on how to improve this form and make it better next time.

Add text...

12. Appendices

Add appropriate meeting / workshop reports and include URLs (this helps to track where online content is missing)

Add text...