

## REPORTING FORM 2025

*Innovation Challenge 4: To Advance and improve the use of social science data for ocean management, decision making and policy development*

*Operating Period as an IMBeR Member:*

- *Start Year:*
- *End Year:*

*List of Authors*

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### 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 had been engaged during the period of 2022-2024 was 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 included assessing from which critical areas of human impact on the ocean these case studies emerge. This activity was 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 was 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 in 2023 with representatives from 9 collaborating institutions across the globe. These meetings discussed the objectives of the case studies initiative, the format and levels of engagement, the themes to be explored, and consolidated the methodology of the case studies, including a preliminary draft questionnaire and the format for future collaboration, prior to the questionnaire being 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 late February, extensions were provided until end March 2024. However, due to an inadequate number of responses to the questionnaire being received to complete the original objectives of this initiative and a lack of further engagement during that year, a decision to discontinue this activity was taken by the co-champions in December 2024.

#### **1.f. Innovation Challenge 5**

*Interventions to change the course of climate impacts*

Add text...

### 1.g. Innovation Challenge 6

### *Sustainable management of Blue Carbon ecosystems*

Add text...

## 2. Selected highlights

## 2.a. Selected scientific highlights since last report (1-5)

*Last report was submitted to SCOR, August 2024*

Add text...

## 2.b. Publications since last report

Please add all publications since last report to the table below (see notes for details on “Class” and “Activity” fields).

[illegible]

*\*If appropriate, please list the IMBeR activity through / by / from / during which the publication arose*

\*\*\*\*Notes on publications\*\*\*\*

Publications are logged in the IMBeR Zotero library which is publicly accessible online –

Publications since 2016 | Publications prior to 2016

Publications are categorised by “Class” and linked to “Activities”:

**Class 1 publications** are specifically generated through/by/from/during **IMBeR activities** - for example, arising from IMBIZOs and IMBeR conferences such as the IMBeR open science meeting and the IMBeR West Pacific symposia and from the activities of the working groups, regional programmes and the SPIS scoping teams.

**Class 2 publications** are on topics relevant to the IMBeR Science Plan that benefitted from some interaction with IMBeR or **IMBeR activities**, for example by IMBeR symposium attendees, past and present SSC members, working group, regional programme and endorsed project members, or national contacts.

**Class 3 publications** are on topics relevant to the IMBeR Science Plan but for which there is no direct link to or benefit from an IMBeR activity. These might include publications by SSC members, working group, regional programme or endorsed project members or members of the IMBeR international community that were written as part of the normal scientific activity of the authors and would have occurred irrespective of IMBeR's existence. You can report Class 3 publications, but they will no longer be logged in the IMBeR database.

[See "[What is an IMBeR publication?](#)" for further information]

**Why list 'Class' and 'Activity'?** This helps us to declare authentically which publications IMBeR has helped to generate, and it makes it easier for us to demonstrate the value of the Regional Programmes, the Working Groups, and IMBeR in general, and it helps us to justify support for IMBeR activities when we can list tangible outputs.

## 2.c. Events, Meetings, and Workshops

*List all international and national events, meetings and workshops. Describe the level of participation: e.g. chairing session/workshop, organising meeting. Include Endorsed Projects committee meetings and workshops.*

*Format: Title of event. Date. Location. Description of participation. Any other pertinent details.*

*Add text...*

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## 3. International collaboration and links

*Add text...*

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## 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...*

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## 5. Education, outreach and Capacity Development

*Add text...*

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## 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)

Add text...

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

Add text...

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## 7. Funding

### 7.a. Funding from external sources

Add text...

### 7.b. Funding proposals in progress or planned

Add text...

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## 8. Changes to Organisational Structure

Add text...

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## 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](mailto:imber@ecnu.edu.cn).\*\*\*\*

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## 10. Notable achievements over the IMBeR decade (2016-2025)

10.1...

10.2...

10.3...

10.4...

10.5...

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10.x...

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## 11. A list of Synthesis Products

*Add text...*

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## 11. Reflections

*Add text...*

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## 12. Recommendation for future work

*Add text...*

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## 13. Anything not covered above

*Add text...*

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## 14. Appendices

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

*Add text...*