

Revised Agenda for SIOA meeting with IMBeR Chair, 14 December 2022

I. SIOA's contribution to IMBeR – so far and to 2025

- What are the most valued components so far between SIOA and IMBeR?
- What is SIOA's plan for the remaining two + years?
- How will this progress IMBeR's science plan and specifically the priority research areas 2022-2025?
- What does SIOA want/need from IMBeR to achieve this?
- Terms of Reference for SIOA

II. SIOA collaboration and synthesis with other RPs and IMECaN

- How can SIOA build better collaboration with the other Regional Programmes, Working Groups, and early career network (IMECaN)?
- Are there synthesis activities that you think could be conducted with the other regional programmes (both regional and thematic syntheses, connecting different challenges, SIOA and ECRs etc.)?

III. Post-2025 (i.e. 'IMBeR 3.0')

- Strategy for IMBeR post-2025 and where SIOA fits into this.

Notes from SOLAS-IMBeR Ocean Acidification Working Group (SIOA) meeting with IMBeR Chair 14 December 2022

Present:

Sam Dupoint (SIOA Chair), Diana Ruiz Pino (IMBeR Chair), John Claydon (IMBeR Executive Director) and Lisa Maddison (IMBeR Deputy Director)

Diana gave a brief introduction and outlined the aims of the meeting which are to:

- expand the interdisciplinarity of IMBeR
- develop more of a bottom-up strategy
- work closely with the SIOA to develop a strategy for IMBeR post-2025

Action: Sam to organise a brainstorming with the SIOA SSC to answer the questions in the agenda above

SIOA presentation

Achievements

- Sam appointed as SIOA chair on 14 June 2022
- Annual SSC meeting held in Peru in September 2022, in conjunction with 5th Ocean in a High CO₂ World Symposium
- SIOA was integral in establishing the Ocean Acidification International Coordination Centre (OA-ICC) that communicates, promotes and facilitates international OA activities through communication, capacity building and science
- Intercomparison activities and best practices undertaken – guidelines developed
- Coordinates two databases: 1) Publications (>1200), and 2) Raw data - used for syntheses and to develop best practice on use these data
- Collaboration with other OA projects, e.g., GOA-ON (>900 scientists from 100 countries)
- Provides resources for training, how to combine all available data, produce videos, etc.

Progress

- SCOR WG 149 on Changing Ocean Biological Systems (COBS): How will biota respond to a changing ocean?
- Developing OA Cookbook - simple methods or protocols that provide quality data
- Developed the OA kit, simplified cheaper sensors
- Material for TRIS buffer preparation and pH measurements
- Determined that needs depend on location - must take this into consideration towards achieving SDGs
- Multiple stressors training courses held - developing training materials
- Training courses in east Africa

Plans

- Several meetings and training courses will be held in 2023, e.g., basic training course and evaluation of needs in West Africa (challenged due to limited support for infrastructure and science), also provide data for local scientists' use.
- Produce a document for policy makers
- Rotation in SIOA membership - improve transparency and representation in currently under-represented regions and groups (ECRs, gender, discipline)

- Produce syntheses from 10 years of SIOA - short document (Nature?) and longer one (Frontiers in Marine Science), illustrating how SIOA has influenced the field and how effectively SIOA and other contributors have worked across disciplines
- Include regional syntheses (e.g., Arctic, Mediterranean Sea, and other IMBeR group projects) and global meta-analysis on regional level
- Interaction with Human Dimensions WG would be useful. Have data from capacity building, including cultural challenges, gender issues and need to know to incorporate indigenous knowledge

Action: Sam to draft synthesis outline for brainstorming meeting in January, aiming to publish mid 2023

Action: John to send Sam contact information on the RPs and HDWG

Synthesis, legacy and post-2025

- Sam will brainstorm with SIOA, to decide on what SIOA has done, what was learned as a result of the work of the SIOA and plans for the group post-2025

What does SIOA need from IMBeR

- Introductions to the RPs co-chairs once there is a plan regarding the synthesis paper, so can benefit from their expertise and existing regional information or projects
- Introduction to the HDWG co-chairs and organise a meeting with them

Other business

- Sam is not available for the IMBeR SSC meeting in April, so another SSC member from the SIOA will attend
- John: Excellent capacity development approach - tailored to needs and results are much better (pre- and post-analysis not achieved elsewhere). Sam offered to give a talk, that could be recorded and shared.

Action: John to suggest dates and times for Sam's presentation on capacity development approach

Action: Sam to provide ideas regarding Synthesis, legacy and post-2025 by February 2021