

Annual SCOR Working Group Reports to SCOR

1. Name of group

SCOR Working Group 154
Integration of Plankton-Observing Sensor Systems to Existing Global Sampling Programs (P-OBS)

2. Activities since previous report to SCOR (e.g., virtual or in-person meetings, email discussions, special sessions). Limit 1000 words

This is our 4th SCOR report.
Since our last report we have been working through the pandemic to write and finalize an Ocean-SITES report similar to the one we published on GO-SHIP. We hope to finalize it in 2021 and have tentatively planned to meet in person in conjunction with Ocean Sciences. We met as a group on Zoom on Sep. 15, 2020.

3. Documents published since previous report to SCOR (e.g., peer-reviewed journal articles, reports, Web pages) and should be limited to publications that resulted directly from WG activities and which acknowledge SCOR support

None

4. Progress toward achieving group's terms of reference. List each term of reference separately and describe progress on each one. Limit 1000 words

Identify current technologies (sensors as well as water sample analyses) that can be integrated into existing observing infrastructure to provide input and guide studies of plankton for marine ecosystem and biogeochemistry studies -- *Finalized*
Provide the necessary details associated with every technology/measurement proposed (e.g., power, cost, and human effort). -- *Finalized*
Document potential applications, including science case studies and lists of publications, and document measurement protocols. Develop adequate protocols when these are not available. – *in progress*
Identify synergies with specific measurements done from other observing programs (e.g., BGC-Argo, space-based measurements, Continuous Plankton Recorder surveys) to provide cross-calibration and a better representation of the 4-D distribution of the parameter measured. – *Finalized (in Lombard et al., 2019)*
Identify technological limitations and/or gaps, and identify areas of priority investments to develop and implement the required observation technologies and tools for specific needs. – *Finalized (in Lombard et al., 2019)*
Outreach activity – We see our involvement in the creation of a proposal to US GO-SHIP as a major outreach accomplishment. Proposal has not been funded as of yet but group has received seeds funds from NOAA. We are interested to do more.

5. WG activities planned for the coming year. Limit 500 words

In person meeting in Hawaii in Feb. 2022, if possible. Final report for OCEAN-SITES by fall 2021 and finalize it after a period of public comments by the end of the year.

6. Is the group having difficulties expected in achieving terms of reference or meeting original time schedule? If so, why, and what is being done to address the difficulties Limit 200 words

COVID, zoom fatigue, other activities of the chairs and declined interest of WG members are all causing our current report to drag out beyond the time we thought it should.

7. Any special comments or requests to SCOR. Limit 100 words.

None

Additional information can be submitted and will be included in the background book for the SCOR meeting at the discretion of the SCOR Executive Committee Reporter for the WG and the SCOR Secretariat.