



## GO-SHIP Committee Meeting

18 February 2021 at 21 UTC

### Agenda / Minutes

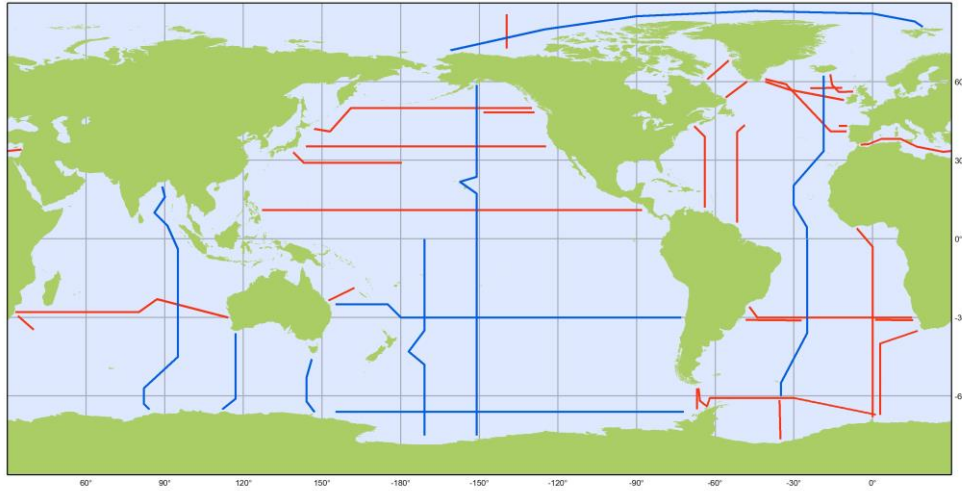
Participants: Rik Wanninkhof, Elaine McDonagh, Steve Diggs, Are Olsen, Kumiko Azetsu Scott, Martin Kramp, Emil Jeansson, Jae Hak Lee, Kats Katsumata, Mario Hoppema, Masao Ishii, Caroline Cusack, Maciej Telszewski, Greg Johnson, Bernadette Sloyan

- Welcome (Chairs) including OCG update
  - Workshop on best practices between GO-SHIP and SOOP ahead of next OCG meeting on underway systems in May has been suggested to OCG executives.
  - In OCG call promising contact established with Chinese participant and hope to find a national representative for GO-SHIP Committee. Eliane to follow up with Bernadette in this matter who also had contacts.
- Ocean Decade application (Bernadette, Elaine)
  - See attached slide and abstract below presented to GOOS-OCG after the submission of the programme application to IOC in mid-January
- Network status / national updates (Nat Reps)
  - Review of the [cruise plans and table](#) established based on the [last committee meeting](#), no important changes in the meantime.
  - Possible Italian cruise at 75N/A29 this fall with RV Laura Basso, proposal submitted, contact: [maurizio.azzaro@cnr.it](mailto:maurizio.azzaro@cnr.it)
- Updates from OceanOPS (Martin)
  - Presentation of latest network status maps and KPIs (attached), introduction of quarterly report bulletins planned to be sent to the GOOS community by OceanOPS for the integrated observing system, with one individual page for each network.
  - Reminder that publications based on GO-SHIP data are the main indicator for data uptake and [bibliographies](#) should be kept up to date, which requires active support from the authors. Publications which are not yet in the repository should be sent to the Technical Coordinator, ideally with DOI and direct URL. Only few publications have been submitted until now for 2019 and 2020; agreement that TC will send request to broader GO-SHIP mailing list and national reps will send reminders at national level.
- Updates from working groups (Caroline)
  - WGs: CTD/O2 operations draft document gone out for review and feedback. Susan Becker is working on the bottle sampling document. Jay Pearlman (OBPS-Steering Group

Co-Chair) and Pauline Simpson (OBP repository manager) informed the group about best practices and the Ocean Best Practices System (16<sup>th</sup> December, 2020).

- Chair rotation (Chairs)
  - Rik Wanninkhof will rotate off shortly, a discussion how this role should be filled in terms of age, gender, expertise, nationality took place, a US representative is considered appropriate because of the important role of US-GO-SHIP; if the scope of GO-SHIP opens up towards biology the group will re-discuss if a corresponding third co-chair for this domain should be established.
- European commission call: Submit E-GO-SHIP infrastructure application? (Elaine)
  - Elaine will set up a kick-off meeting with European GO-SHIP drivers to investigate potential to submit an application to the recent call for projects. Meeting scheduled 12 April.
- Short update from IOCCP/GOOS Biogeochemistry Panel (Maciej)
  - Maciej reported that members that in the past we always had members present in both steering groups, IOCCP and GO-SHIP. With the latest turnover that is presently no longer the case, but Maciej will act ex officio as link between the groups. Long term it would be good to have members again who have both roles.
- Other business
  - Data management strategy/team: It was agreed that this pending item requires more progress; an initial working group was suggested but did not meet yet.

Attachments: Recent status maps and Summary of UN Decade Application (slide/abstract)



GO-SHIP

Planned Cruises

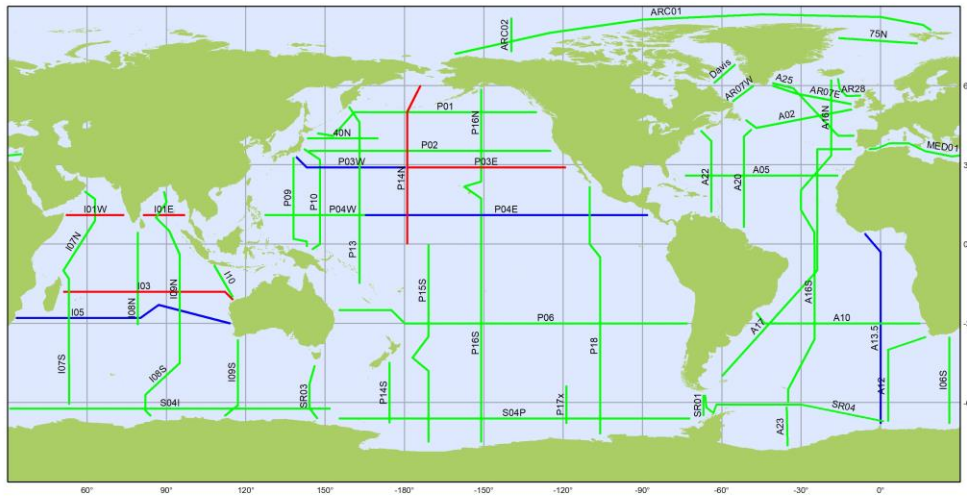
December 2020



— 2021-2022  
— 2023 and later



Generated by www.ocean-ops.org, 08/02/2021



GO-SHIP

Status of 2012-2023 Survey (55 Core Lines)

December 2020



— completed: 46 (84% of all core lines)  
— at sea: 0 (0% of all core lines)  
— funded: 4 (7% of all core lines)  
— not planned yet: 5 (9% of all core lines)

Lines completed, at sea or funded: 91% (50 core lines)  
Countries providing ship-time: 10  
Elapsed survey time: 82% (floating 11 years)



Generated by www.ocean-ops.org, 08/02/2021

## 'GO-SHIP evolve' proposal for UN Ocean Decade program

Elaine McDonagh, NORCE, Norway; Martin Kramp, OceanOps, France; Rik Wanninkhof, NOAA, USA

based on International GO-SHIP OceanObs'19 paper (Sloyan et al., 2019)

- **New science areas**
  - Biological and ecosystem measurements as indicators of ecosystem health
- **Accelerating use of knowledge**
  - Real-time data, data products, network partners
- **Multinational capability: enabling contributions from more nations**
  - Training, multinational voyages, shared facilities, funding capability



The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP) provides a globally coordinated network and oversight of 55 sustained decadal repeat hydrographic reference lines. GO-SHIP is part of the global ocean/climate observing systems (GOOS/GCOS) for study of physical oceanography, the ocean carbon, oxygen and nutrient cycles, and marine biogeochemistry.

GO-SHIP is a unique international partnership that makes decadal reference measurements from ships of the changes in physical oceanography, the carbon cycle, marine biogeochemistry and ecosystems, covering all major ocean basins to detect natural and anthropogenic changes in the oceans. The GO-SHIP principal objectives are: understanding and documenting the large-scale ocean water property distributions, their changes, and drivers of those changes, and addressing foundational questions of how a future ocean will increase in dissolved inorganic carbon, become more acidified and more stratified, and experience changes in circulation and ventilation processes due to global warming, rising CO<sub>2</sub> levels and altered water cycle.

The International GO-SHIP program is chaired by Elaine McDonagh, Norway and Rik Wanninkhof, USA. The program office and technical coordinator, Martin Kramp, are at OceanOPS, France. The International GO-SHIP program is overseen by an executive group (details below) and a science committee that includes members from the 14 contributing nations from six continents. The program has established procedures including sampling requirements, published best practices and requirements for data quality and timelines for open access. GO-SHIP provides key, high quality full-depth data, required for studies of ocean climate and reference data for autonomous platforms.

This UN Ocean Decade program 'GO-SHIP evolve' will focus on emerging opportunities for the international GO-SHIP program in three areas

- **New science areas**
  - The addition of biological and ecosystem measurements will enable GO-SHIP to determine trends and variability in these key indicators of ocean health.
- **Accelerating use of knowledge**
  - Expanding the provision of real-time CTD data to Met Offices.

- Working with Argo network on fit-for purpose provision of calibration data
- Explore the potential for new data products with stakeholders by evaluating the uptake of the recently produced Easy-Ocean GO-SHIP product.
- Expanding gridded products into biogeochemical parameters
- Multinational capability: enabling contributions from more new nations
- Developing access and training opportunities
- Supporting and facilitating multinational voyages.
- Evaluating the requirement for shared facilities for delivering GO-SHIP parameters.
- Explore new models of funding for program-wide support and capability

Through the International Go-SHIP program and GO-SHIP evolve we will support the Ocean Decade 2020-2030 in the fourth decadal GO-SHIP survey.