



GO-SHIP Committee Meeting

8 September 2021, 3pm UTC

Agenda / Minutes

Participants: Leticia Barbero, Elaine McDonagh, Lynne Talley, Greg Johnson, Kumiko Azetsu-Scott, Martin Kramp, Maribel Garcia Ibanez, Steve Diggs, Pascale Lherminier, Caroline Cusack, Yvonne Firing, Fiz F. Pérez, Chanmi Kim (IOC data flow charts). Apologies: Mario Hoppema, Are Olsen, Emil Jeansson, Katsuro Katsumata, Jae Hak Lee, Bernadette Sloyan

1) National updates

- JAPAN: JAMSTEC completed P01 in Aug (90 stations -- 26 stations short to the US coast). Planning the rest of P01 and P14N for 2023 (not funded). P03W by JMA ongoing now.
- SPAIN: The BOCATS2021 (A25/ OVIDE) cruise has been completed from 28 May to 26 Jun of 2021. 92 CTD-hydrographic stations were done. PI Anton Velo. Physical variable by LOPS/Ifremer/French group. Nuts/pH/Alk/N2O by Vigo-CO2-group. ETZH (236U, 129-I 14C). 13C-18O2 by IPIMAR (Voelker) and Reverdin (Paris). SAGA 30°S A10.5 is confirmed for 1 FEB 2022 (CO2 SYSTEM Melchor Gonzalez-Davila)
- UK: AR7 has tentative ship time in 2023, but there is no funding for CFCs. AR28 is still a UK GO-SHIP section but every 5-10 years rather than annually (so next year will be moorings only). SR1b almost certainly will not find ship time in 21/22, and will likely be reduced to every 5-10 years as well. A23 (north segment) proposed for 23/24 & 24/25.
- US: A20 and A22 completed in Spring 2021. A13.5 on track for early 2022 occupation, in active planning stages. I05 delayed due to NSF change in Indian ocean research operations, hopefully next year – top prio for US GO-SHIP. P02 (2 legs) will be occupied instead, April - July, 2022. US GO-SHIP co-chairmanship rotation: L. Talley stepping down, Alison Macdonald coming on as a co-chair. Invite Alison to GO-SHIP committee to take Lynne's position, Lynne remains an additional member. Isa Rosso leaving SIO. New GO-SHIP PI at PMEL: Zachary Erikson; invite him to next GO-SHIP committee
- Ireland: no updates on this occasion.
- Canada: AR7W not occupied this year; Davis with min parameters next week. ARC2 underway; Line P (associated) completed spring and summer
- Norway: A29 underway, led by Italian PIs; consider Italian committee member and also consider way to reflect multinational cruises in our planning
- Korea: The survey cruise in the Indian Ocean, which has been postponed due to the COVID-19 pandemic, is scheduled to resume. The cruise using the R/V Isabu of the Korea Institute of Ocean Science and Technology (KIOST) will be operated in three legs from September 13 to December 23. The 3rd leg is a meridional survey along the line on 67W which has been proposed as an associated section. The observation items are centered on physical and chemical oceanography. Partially, full-depth CTD castings will be made. It is also planned to recover and re-deploy a tall current meter mooring (deployed in 2019).

2) BIO-GO-SHIP workshop announcement

- PIs on upcoming P2 and A13.5 cruises; workshop to discuss data management; how could such variables become higher level GO-SHIP parameters.

Workshop agenda underway, some anticipated outcomes include:

- A forum is established to ensure dialogue and information exchange through the life of the Bio-GO-SHIP pilot.
- GO-SHIP and Bio-GO-SHIP PIs understand how to cross-connect data housed in different repositories, to ensure interoperability of biological data with biogeochemical and other non-biological observations.
- PIs share information about biological data being piloted, including what data types and samples are being collected, how data will be formatted, what repositories will be used (if known).
- The team begins mapping data flows, including parameters measured, standards, repositories used, flow of metadata, data access services, etc. Discuss available repositories for the biological data that will be collected and how these data and metadata will make their way into global repositories and reporting (eg IOC/OBIS, IOC/GOOS/OceanOps)
- The pilot is structured to inform about feasibility of biological measures for consideration as GO-SHIP Level 1, 2 or 3. Establish a process to develop recommendations to the global GO-SHIP committee, taking into consideration feasibility and other criteria (available technologies, funder interest, etc.)
- Topics that require deeper discussion (eg science or data technical aspects) are identified.

3) DMT project

- Membership: Currently Steve Diggs, Kats Katsumata, Mario Hoppema. Invite Sarah Purkey or Alison Macdonald (Lynne to talk to both), others? Suggest Adam Leadbetter (Adam.Leadbetter@Marine.ie), at least one of Elaine/Leticia/Martin, Thierry Carval (IFREMER, Martin to ask)
- Chair and TORs
- List of data activities in Trello,
- Tracking data (data flow diagrams)
- Data requirements for new variables
- Quality assurance
- Shared Data Utilities / Software
- Martin to doodle kick-off meeting

4) Data flow diagrams

- Chanmi Kim (IOC) presented present status of draft data flow charts; action for national representatives to provide sketch of national data flow including ADCP to Martin/Chanmi. OCG workshop 27 September to focus on data flow charts, agenda to follow, participation welcome!

5) Article

- TOS article is short (3 paragraphs in Argo/GO-SHIP combined article, mostly focused on Argo); there is enthusiasm for a longer GO-SHIP focused article (update of previous ARMS and Frontiers articles). Again, ARMS or Frontiers could be a target journal. Who will lead? If no other volunteer Elaine could do it. Break up in topics to be led by different people? Leticia would lead carbon section after her cruise (i.e. November). Potential section structure to be drafted by Elaine (?) with call for volunteers.

6) Associated sections definition/process:

- Proposed version is item 10 in previous minutes:
<https://www.go-ship.org/Docs/20210527-GO-SHIP-Committee-Minutes.pdf>
- Points (ii) and (iv) are both about resolution/coverage, so it might be clearer if they were either combined or listed one after another rather than separated by the list of parameters
- If no other objections by end of week, this version to be circulated/published on website

7) Update from Working groups

- Updating the hydro manual: procedure
 - CTD operations manual – under review
 - Sampling from the Rosette / Niskin-like bottles – Toste Tanhua wrote the CFCs section and recommended Marta Alvarez as a knowledgeable carbon person who could possibly help with the carbon section. Some of the WG members have moved on to new work positions resulting in delays with reviewing and editing this working document.

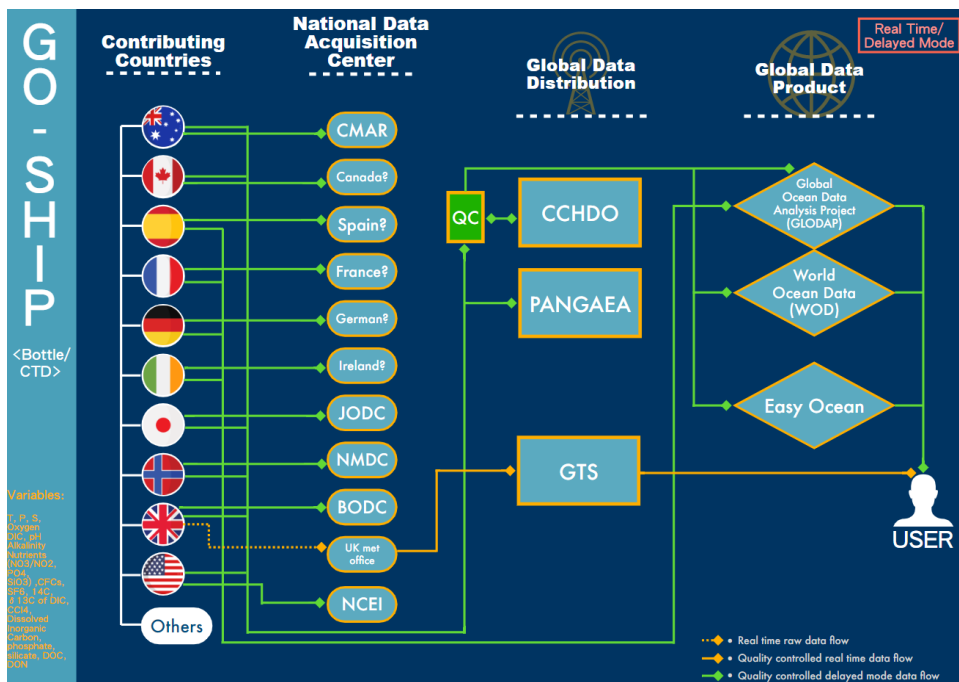
8) [EuroSea Argo Meeting](#)

- GO-SHIP representation – 10 minute presentation + discussion on Wednesday 29th September 13:00 to 16:00 UTC, Yvonne to represent GO-SHIP with slides provided by committee
 - Cross networks interactions (presentation of the program, 2 slides on what they can do for and expect from Deep Argo, 2 slides on what they can do for and expect from BGC Argo)
 - Reference data, Calibration and validation data, co-located multiparameters (what is measured to what you want), deployment opportunities
 - IFREMER/CCHDO/OceanOPS can supply a slide (graphic) for CTD RefDB; Lynne to circulate slide on BGC Argo calibration process
 - Highlight: GO-ship provides coast to coast and connection to deep ocean.
 - Scientific: Higher resolution spatial and temporal context
 - Martin to provide map with Deep and BGC Argo floats deployed from GO-SHIP cruises.
 - 500+ BGC deployments planned in next 5 years (US)

9) Other business

- L2 parameter, Fiz: “After the agreement to designate the N₂O measurements as L2, Leticia contacted Mercedes de la Paz and myself to clarify some terms about the methodologies in use. At this time the N₂O determination in the USA group uses a chromatographic system in conjunction with the determination of CFCs and SF₆, while other methods are using chromatographic determination of equilibrium gases in samples collected at sea. Mercedes and I will respond to these in the next 2 months.”

Annexes:



CCHDO CTD Profiles: by obs year 2021-08-22

