GO-SHIP Committee Webex

Meeting Minutes - Final Version

Date: 13 July 2016

Time: 19:30 -21:20 (UTC)

Attendance:

- Kumiko AZETSU-SCOTT, Canada (BIO)
- **Katsuro KATSUMATA**, Japan (JAMSTEC)
- Martin KRAMP, IOC-UNESCO (JCOMMOPS)
- **Elaine MCDONAGH**, UK (NOC)
- **Bernadette SLOYAN**, Australia (CSIRO)
- **Lynne TALLEY**, USA (SIO-UCSD)
- ***Rik WANNINKHOF***, USA (NOAA-AOML)
- *Julia Hummon*

(**Executive Group,** Co-Chair, *invited expert*)

Agenda:

1) Cruise news: Latest cruises established, funded, planned (all concerned)

2) Action items: Updates (all concerned)

3) JCOMMOPS: Update from the office, focus website (Martin)

4) Repeat Hydro Manual and Data Requirements: Needed updates (Rik, Toste)

5) AtlantOS, incl. EDMO codes, ADCP data archive, RT CTD data (Toste, Elaine)

6) CCHDO: Update from data archive, focus tracking of historic data (Steve)

7) G7 initiative 'Future of the Oceans and Seas' (Elaine)

8) Other Business

1) Cruise news

Australia just finished P15S. Steve Rintoul received funding for SR03 in 2016/17 (two legs).

Japan will occupy I07S and I08N with RV Mirai in the 2019-20 season, one year later than initially planned. 2017 revisit of P17E is now 'funded' and scheduled for February 2017.

US now discussing Indian Ocean cruises with NOAA ship in 2018 (still uncertain), in particular I7N. More information expected within 3 months. No back-up plan yet if I7N is refused. Maybe IO6 (with UNOLS ship).

Ireland confirmed that A02 was accepted by planning commission for 2017, but still needs government confirmation.

UK just completed AR28, next 2017. SR1b completed in 2015/16 season, next 2016/17. AR23 was occupied in April, next planned 2017. 24S (A10) section which was occupied in 2009 to be repeated in Feb 2018 (funded).

US P06 cruise just confirmed to be on RV Palmer in summer 2017 from Australia to Chile, as part of bigger project.

Spain now at sea on A25 (with France as partner). Next 2018.

Canada A7W just completed, next 2017. ARC2 will start shortly. Davis: Canadian part funded, US part pending.

South African and Brazilian South Atlantic associated sections connected coast-to-coast by German METEOR (SAMOC framework) in spring 2016.

2) Action items

All members should submit updates on action items (Google Doc spreadsheet) to Martin (Action ALL)

CCHDO API (V1) information for metadata exchange with JCOMMOPS now made available, first trials to take place shortly: aim is tracking the (timely) flow of data into JCOMMOPS, and populate JCOMMOPS database with historic cruise information.

Suggested GO-SHIP data acknowledgement is available on GO-SHIP website.

3) JCOMMOPS

New JCOMMOPS system is operational, GO-SHIP members are invited to submit and edit cruise information though this system. KPI section requires definition of indicators/targets by the GO-SHIP committee. Connection to CCHDO and other databases (tracking of timeliness, and historic cruise information , see item 2) of high importance. All members invited to test, and provide feedback on JCOMMOPS website to Martin. Other platform operators (e.g. floats, drifters) can also access the cruise

information to facilitate their deployment planning. The GO-SHIP website go-ship.org will be fed through the JCOMMOPS system, so cruise information will not need to be maintained at several locations.

4) Hydro Manual

Some content must be updated or is missing, e.g. on DOM. Some Argo floats now also carry sensors for fluorescence or backscattering, operators rely often on GO-SHIP data for Calibration/Validation, but GO-SHIP Hydro Manual does not comprise corresponding standard operating procedures. Underway measurements also require better documentation. Rik agreed to draft underway chapter as a first step. AUS (Craig) could provide first feedback on draft, or be co-author.

Procedures should be reviewed in general, and beyond Level 1. SCOR nutrients working group should provide corresponding chapter/update. Group agreed that CTD methods should also be updated. Dedicated SCOR group could be good solution for 2017 deadline (Elaine, Lynne and Bernadette to establish/connect working groups). For all BGC parameters, Rik and Toste will prepare recommendations until next meeting.

Jules agreed to look into the Hydro Manual ADCP chapter(s) to make a recommendation if changes are needed (e.g. move from 1Hz to 24 Hz CTD data time series).

Logsheets etc should also be available on the website, and recommendations for sampling order (beyond Level 1); both exist somewhere, but are too difficult to find, in particular for new contributors such as Ireland. “Practical sampling considerations” could be a new chapter for this in the Manual, and be highlighted on website. E.g. information on sampling resolution/spacing is available on website, but currently too difficult to find for new members. Coordinator and Co-Chairs to provide suggestions for next meeting.

Martin suggested moving all Hydro Manual files to IODE SBP repository (see http://bit.ly/2aCPbjH), where they would have better visibility beyond GO-SHIP community, and DOIs. GO-SHIP website would then provide only links into the IODE catalogue. Martin to check if this step would have any impact on document ownership, which must fully remain inside GO-SHIP. Group to review IODE repository.

5) AtlantOS

AtlantOS meeting took place recently in Kiel. Toste to provide feedback to group, in particular on data archiving items. Apparently Ifremer can process and store all AtlantOS sADCP data (focal point Pascal Lherminier), and for ADCP (L/S) data from other cruises they can also provide a home, but without any data processing.

Jules Hummon as invited expert said that unprocessed ADCP data is basically unusable, but that it is still worth archiving it. For sADCP only one system is used internationally. For lowered ADCP a whole set of additional metadata is required to process the data. Processing ADCP data requires a lot of resources.

Given that GO-SHIP ADCP data is currently wide-spread in various data centers around the world, the Ifremer proposition would allow defining a standard metadata format, and centralizing all data, even if

not processed. Toste and Jules to set up a working group and make proposition for next meeting. A first step would be centralizing links/contacts to all known archives. All committee members to contribute national information. [Post webex: Martin to investigate ERDDAP solutions with OSMC]

Jules agreed to investigate with Pat Cowell at what extent international processed sADCP data is currently loaded by NOAA in its national joint archive.

For CTD/bottle data, a new international data center in Norway has been discussed (Martin to talk to Toste, S. Pouliquen, B. Pfeil).

Regarding the real-time submission of CTD data to the GTS, as done by e.g. UK ships Ross and Discovery, soon also Cook, and given that the ships spend only a very limited time with formal GO-SHIP cruises, but submit real-time CTD data also from all other stations they perform, GO-SHIP should not be responsible for these submissions; this would rather be a task for the ship operators. UK Met Office encourages other nations to contribute. Procedures are well-established and public, e.g.: http://bit.ly/2achUO4 . The real time data are of high value for meteorological services. To be raised again by GO-SHIP committee in next meeting.

6) CCHDO

With regard to puzzling partial occupied sections (different cruise, period, ship, ...) together to full line occupations, going back to WOCE, and even earlier, Steve Diggs wrote by e-Mail that Jim Swift has been working on his “perfect section” collection, and that CCHDO has a number of similar but parallel efforts that could be focused on producing this kind of product. CCHDO would welcome the opportunity to discuss the use, timeline and expected outcomes of such an effort.

Bernadette suggested that a working group of data users (around the GO-SHIP committee) could do this work relatively easy, given that they have already done it previously for many of their publications. All modifications of used data sets would require appropriate documentation. Rik added that from a chemical perspective, much has been done through GLODAP. To be raised again by Committee in next meeting.

7) G7 initiative 'Future of the Oceans and Seas’

With reference to http://bit.ly/2atTD1W the group agreed to proactively create a set of GO-SHIP recommendations for national representatives. Based on these international recommendations, nations can then create their national recommendations. Nobody from the group has been contacted so far in this matter. In the US, BGC Argo floats have been boosted through this initiative, with related push for GO-SHIP as required calibration/validation resource for these floats. Elaine and Lynne agreed to take an active role for this item and make suggestions to the group.

[Post Webex 14 July by Kats: Kawano-san is involved in the official Japanese reporting group, and the report is due in November 2016. Kawano-san encourages the Committee to write the GO-SHIP recommendations, and to submit to him. Kats agreed to become part of the working group with Elaine and Lynne]

[Post-Webex 25 July by Elaine: NOC will feed information into the UK G7 submission and Elaine will represent GO-SHIP in that process. As many nations as possible should submit recommendations, even if similar]

[Post-Webex 28 July by Herlé Mercier: Fiz F. Perez new Spanish representative in GO-SHIP committee]