

**SOCAT Southern Ocean Regional Meeting
CSIRO Marine Laboratories
Hobart, Australia
16-18 June 2010**

sponsored by IOCCP, SOLAS/IMBER, and CSIRO

Meeting dates

June 16-18(Wednesday-Friday), 2010

The SOCAT-Southern Ocean group are planning to meet in Hobart, Australia, to complete the data quality control for the Southern Ocean, and to develop synthesis plans for use of these data. At the Pacific Ocean SOCAT meeting in Tokyo (February 2010), it was agreed to invite VVSS Sarma, chair of the Indian Ocean regional group. This will allow progress on the quality control of the Indian Ocean QC, as many of the members of the Indian Ocean panel are also part of the Southern Ocean panel.

June 21-23 (Monday-Wednesday), 2010

In the week following the SOCAT meeting, a three day workshop on deep ocean changes in water mass properties (T, S, carbon, CFC, oxygen and nutrients) for Southern Hemisphere waters will be held at the same venue. CSIRO will pay for accommodation and per diem for members of the Southern Ocean SOCAT group, if they are involved in research on deep ocean changes in the Southern Hemisphere and are interested in contributing to the workshop.

Action Required

Please indicate via email (bronte.tilbrook@csiro.au) if you will attend the SOCAT and/or deep ocean meetings and likely dates of your visit to Hobart. IOCCP and SOLAS will contact you about travel funding.

SOCAT Meeting Objectives

- 1) Finalizing the Quality Control of SOCAT CO₂ (<http://www.socat.info>) data base for the Southern Ocean sector (> 30°S).
- 2) Implementing a plan to use the SOCAT data to investigate regional, and temporal (from seasonal to decadal) variability of the air-sea CO₂ fluxes in the Southern Ocean, and identify scientific papers and authors for these topics.
- 3) Plan the level of involvement of the SOCAT-SO group in the Regional Carbon Cycle Assessment Project (<http://www.globalcarbonproject.org/activities/RECCAP.htm>)
- 4) Preparation of a full report of the meeting for publication on line at IOCCP and reports for IMBER and SOLAS news.

Background on QC:

At the SOCAT meeting in UEA, Norwich, in June 2009, issues related to quality controlling the SOCAT data were discussed (see: http://ioc3.unesco.org/ioccp/FinalRpts/WR222_eo.pdf). The data are now ready for 2nd level QC and finalising before release of the data base later in 2010. For the Southern Ocean, it was decided to split the region into 3 zones. All members of the panel need to be involved in the 2nd level QC, with the following people having overall responsibility for the zones:

Indian sector (10°E-120°E) Metzl
Pacific sector (120°E-70°W) Tilbrook
Atlantic sector (70°W-10°E) Bakker, Hoppema

The cookbook for completing the 2nd level QC can be downloaded from http://www.socat.info/upload/Images_Header/SOCAT_QC_Cookbook_v2.doc).

The meeting participants are expected to come to the meeting with the 2nd level QC already applied to these data, and be ready to discuss issues related to problem data.

The data base is now version 1.3 and as the 2nd level QC is applied, the accepted data will translate to version 1.4, the version for public release. The general goals for the final stages of QC are:

- 1 By late June 2010 at the end of the meeting, we should be ready to release cruises with QC flags other than suspend, and exclude those with QC flag F (for failure) and X (for exclude).
2. Once a cruise receives a QC flag at the LAS, other than suspend, it becomes part of v1.4.
3. The suspended cruises are revised (by Benjamin Pfeil/ QC person/and the PI) either at the meeting, or shortly after (before August 1?).
4. The revised files are loaded back into the LAS.
5. The QC person assigns the appropriate flag; hence the cruise becomes part of v1.4.
6. The cruises without a QC flag, or that are still suspended must wait until the next round.

Meeting venue

The meeting will be held at CSIRO Marine Labs, located on the waterfront in Hobart.

Travel and accommodation

Travel costs to Hobart will be covered by IOCCP and SOLAS. Accommodation and per diem costs will be paid by a combination of IOCCP, SOLAS and CSIRO.

Accommodation will be at the Lenna Hotel, located in Battery Point (<http://www.lenna.com.au/>) and close to the CSIRO meeting venue. The weekend will be free for tourist activities, and depending on interest, a one day visit may be arranged to the Port Arthur convict settlement along with a trip on a fast boat along the spectacular sea cliffs (<http://www.portarthurtasmania.net/tasman-island-cruises.htm>) near Port Arthur. Costs for any weekend tourist activities will be up to individuals to fund themselves. However, accommodation and per diem for the weekend stay will be provided by CSIRO for participants staying for the deep ocean meeting.

Invited participants

Dorothee Bakker (UEA, UK)
Mario Hoppema (AWI, Germany)
Masao Ishii (MRI, Japan)
Andrew Lenton (CSIRO, Aust)
Nicolas Metzl (LOCEAN/IPSL, France)
Chris Sabine (NOAA, USA)
Colm Sweeney (NOAA, USA)
VVVS Sarma (NIO, India)
Bronte Tilbrook (CSIRO, Aust)
Anna Lourantou (LOCEAN/IPSL, France), funded separately

Organising committee

Bronte Tilbrook
Nicolas Metzl
Emilie Brévière, SOLAS
Kathy Tedesco, IOCCP

Local Organisers

Bronte Tilbrook and Andrew Lenton