

Minutes of the Third Meeting of the Scientific Steering Committee of the Surface Ocean – Lower Atmosphere Study (SSC SOLAS).

19th and 24th June, 2003, Banff, Canada

Attendance

Thursday 19th June

SSC Present: Peter Liss (PL), Ken Denman (KD), Bill Miller (BM), Mitsuo Uematsu (MU), Truls Johannessen (TJh), Barry Huebert (BH), Uli Platt (UP).

Also Attending: Ed Urban (EU), SCOR; Wendy Broadgate (WB), IGBP; Vladimir Ryabinin (VR), WCRP; Anne Thompson (AT), CACGP; Daniela Turk (DT), Canadian SOLAS; Maria Hood (MH), IOC; Casey Ryan (CR), SOLAS IPO.

Wednesday 24th June 2003

Present: Ken Denman, Barry Huebert, Bill Miller, Mitsuo Uematsu, Peter Liss, Truls Johannessen, Uli Platt, Katherine Richardson (KR) and Peter Schlosser (PS).

Also attending: Vladimir Ryabinin, David Carson (WCRP), Wendy Broadgate, Casey Ryan, Dawn Conway (CFCAS), Daniela Turk.

Apologies: Ilana Wainer (IW), Tim Jickells (Tji), Paty Matrai (PM), Dileep Kumar (DK), Phil Boyd (PB), Doug Wallace (DW), Elsa Cortijo (EC), Gerbrand Komen (GK).

Summary of Actions

Who?	What?
All SSC	Will be contacted by CR or PL and asked to respond to reviewers' comments on the SOLAS Science Plan and Implementation Strategy that fall in their area of expertise.
PL	PSL to contact SSC nominees. CR to forward CV of nominees to sponsors.
CR	CR to contact IMBER IPO to discuss a mechanism for joint endorsement of research that falls within both projects.
PL	PSL to write letter to Alexander Bychkov regarding SOLAS attendance at PICES Annual Conference.
UP	UP to write a document detailing the terms of reference of the task team on halogens, the aims of the group and listing possible members.
PM	Paty Matrai to write to UK NERC and communicate that the SSC would be pleased if the IPO could be located in the UK, at the same institution as the Chair.
PL	PSL to contact potential chairs of the Implementation Groups (IMPs) and establish the membership of IMP 1 and 2 in cooperation with them, bearing in mind the SSC's recommendations.
TJh, PL	TJh to offer membership to IMP 3 nominees and arrange meeting in Bergen, Nov 2003. PL to write formal letters of invitation.
BM and PL	BM and PL to write letters of invitation to the SOLAS Science 2004 speakers.
PL	PL to contact DK regarding LOICZ linkages.

Minutes

Welcome and Apologies

PL welcomed everybody and outlined the goals for the meeting.

The minutes of the 2nd SSC meeting (Nov 2002, Gif-Sur-Yvette) were approved. It was agreed that in future minutes would be approved by correspondence with the SSC and an edited version of the approved minutes posted on the website.

Progress since last meeting.

A successful SOLAS session was organised by Lise Lotte Soerensen, Sara Pryor and PL at the EGU-AGU-EGS meeting in Nice, April 2003.

The SOLAS Summer School was heavily over subscribed, with a large number of high quality applicants (235). 75 students have been selected to attend the School in Cargese, Corsica (29th June-12 July, 2003).

IUGG, Sapporo: The SOLAS session will be held on the 4th and 5th of July, 2003. An informal meeting of SOLAS national representatives will take place.

The SOLAS Science Plan and Implementation Strategy (SP and IS) was posted on the SOLAS website in April, 2003.

PL represented SOLAS at the CLIVAR SSG in May 2003. He also gave a SOLAS talk at the final JGOFS Open Science Conference (May 2003, Washington DC).

A new SOLAS poster has been produced and is available for download from the SOLAS website.

The SOLAS website has been redesigned and is now much more interactive, offering the opportunity to subscribe to the email list, nominate a member of a SOLAS Implementation Group and allowing the submission of research projects for SOLAS endorsement.

EU has secured funding from the US National Science Foundation for SSC Activity for the next three years (40 000 USD per year); for the SOLAS Science 2004 Conference (15 000 USD); and for a meeting to provide a framework for an integrated data management system for the marine IGBP and SCOR projects (10 000 USD).

AT gave a presentation on the development of CACGP. Their main activity is the sponsoring of the quadrennial symposia, such as the joint one with IGAC in Crete in 2002 and the future one in South Africa in 2006. Other activities are being developed, the forthcoming website will give more details.

Review of the SOLAS Science Plan and Implementation Strategy.

EU introduced the review and outlined what was now needed - a written response, with each comment answered on its merits. Some reviews covered science areas that have already been included in the previous review of the Science Plan.

The major broad issues identified by the review were discussed; *inter alia*; the need for better linkages to WCRP programmes; the need to highlight the fact that this is an Implementation Strategy, not a detailed plan; the different style between the Foci; and the need for a clearer definition of the SOLAS 'ethos' and its hypothesis driven, process study characteristics.

Many more specific points were discussed and the task of responding to them and emailing the text to CR was assigned to SSC members.

ACTION: SSC members to respond to reviewer comments and send text to CR.

National Programmes

China (Beijing) has several new sources of funding for SOLAS activities. (see report on web).

In the UK, the Natural Environment Research Council has approved a £1.1M thematic programme - UK SOLAS.

Ireland now has a national rep (Colin O'Dowd) and a network is being established.

SSC Membership

The renewal of the membership of PS, BM, Tjh, DW, PM, UP BH, MU, EC, KD, DK and Tji will be proposed to the sponsors.

To ensure that there is a gradual rotation in the SSC, these renewals would be for 1, 2 or 3 years from the end of 2003.

Suggestions were made for the slots that will become vacant at the end of 2003

ACTION: PSL to contact nominees. CR to forward CV of nominees to sponsors.

Endorsement of SOLAS Research

The SSC agreed that SOLAS endorsement would be given by the following procedure:

Individual Principle Investigators (PIs) seeking endorsement are asked to contact their national SOLAS representative. If the PI's science is within the scope of SOLAS, representatives will direct the PI to fill in the form on the SOLAS web site. The SSC (or IPO acting on its behalf) receives the form and then confirms endorsement or otherwise, and sends a letter to PI. It will also be possible to submit the form in cases where there is no national representative or the PI does not wish to seek approval from the national representative.

A database of endorsed projects will be made available on the SOLAS website.

To maintain some similarity with IGAC and ILEAPS, SOLAS will also endorse larger, long-term tasks (e.g., AICI see later)

Interactions with other projects

IMBER: The current draft of the IMBER SP and IS has good synergies with SOLAS. A mechanism to allow joint endorsement of research by the two projects will be developed.

ACTION: CR to contact IMBER IPO to discuss mechanism for joint endorsement of research.

GLOBEC: There will be no formal SSC-level link, but the IPOs will maintain contact.

LOICZ: A memo. detailing the links, overlaps and opportunities for co-operation between SOLAS and LOICZ was approved by the SSC and forwarded to LOICZ. Subject to their approval, it will be posted on the SOLAS website. DK will be asked to be the SOLAS link to LOICZ.

ACTION: PL to contact DK regarding LOICZ linkages.

JGOFS: SOLAS has a lot to learn from JGOFS data management.

IGAC and ILEAPS have expressed the need to endorse projects at a higher level than that of individual PIs (e.g., Tasks in IGAC) and for some commonality in this process for IGBP atmospheric projects (see AICI below).

ILEAPS: micrometeorological techniques and biogeochemical cycles that have a Land – Atmosphere- Ocean transport pathway (particularly Fe and N) were seen as key areas of mutual interest. Tji will be asked to act as link on the latter issue. Members of the SSC were encouraged to attend the ILEAPS Open Science Conference.

AICI: A presentation on the Atmosphere Ice Chemical Interactions Task (AICI, pronounced 'icy') was given by Eric Wolff. The Task will be jointly endorsed by IGAC and SOLAS and SOLAS will adopt the IGAC procedure for Task endorsement. Additionally, it was agreed that in the future SOLAS would be open to this type of Task proposal and would adopt similar requirements to IGAC.

TT SOAF: A small task team on Organic Aerosols (TTOA) was established jointly with ILEAPS and IGAC. It is to be co-chaired by Paulo Artaxo, Sandro Fuzzi and BH and will organise a workshop on the topic in spring 2004. The three chairs will meet to write a scoping document/review.

TT HitT: A task team on Halogens in the Troposphere (TT HitT) was also established to review the state of the science and ensure that halogen science is integrated across the IGBP projects and to enhance links with WCRP. This will be created jointly with IGAC. Halogen emissions to the free troposphere and the need for further modelling work will be key issues.

ACTION: UP to write a document detailing the terms of reference and aims of the group, and listing possible members.

GEOHAB: CR and EU to ensure that possible interactions between the projects are identified.

GEOTRACES will measure atmospheric inputs and surface layer concentrations of many elements. Tji and PS will develop links.

PICES: It was suggested that there might be a SOLAS speaker at the next PICES general assembly.

ACTION: PSL to write letter to Alexander Bychkov.

SOLAS International Project Office

BM informed the SSC that Canada had no secured funding for an IPO and was happy for other countries to host it. The French CNRS was interested in hosting the IPO, but subsequent to the meeting told the Chair that they no longer wished to do so and would consider hosting an Implementation Group instead.

The SSC agreed that there was an urgency to resolve the issue of the funding of the IPO. The SSC would be very pleased for the SOLAS IPO to be located in the UK and saw that there would be benefits and efficiencies in locating the IPO at the same institution as the Chair of the SOLAS SSC.

ACTION: Paty Matrai to write to UK NERC and communicate that the SSC would be pleased if the IPO could be located in the UK, at the same institution as the Chair.

SOLAS and WCRP

VR gave a detailed presentation on SOLAS links with other WCRP projects including GEWEX, CliC and CLIVAR, and highlighted WCRP's interest in both Focus 2 and 3 of SOLAS. The linkages with CLIVAR will also involve the Global Carbon Project.

The WCRP Working Group on Surface Fluxes has been established and will be chaired by Chris Fairall. SOLAS will be involved in the selection of members and a proportion of the membership will be allocated to SOLAS scientists.

Data Management for SOLAS.

There are significant problems ahead on this issue. To move beyond what JGOFS has so far achieved (e.g., a partial, discrete data set) significant new resources will have to be found.

SOLAS will establish a Data Management Task Team. This will be made up of 1 member of each Implementation Group (see below), a member of the SSC (as Chair), the IPO data manager and ex-officio members as necessary. This group will work in close cooperation with other SCOR/IGBP data groups, aiming towards integrated data management and policies.

SOLAS Implementation Groups (IMPs)

The terms of reference were established (available on web) and progress was made towards defining membership.

Tjh agreed to chair and host IMP 3. It will meet in mid Nov 2003 in Bergen. IOC have agreed to provide some support for this IMP.

ACTION: PSL to contact potential chairs of the IMPs and establish the membership of IMP1 and 2 in cooperation with them, bearing in mind the SSC's recommendations.

ACTION: Tjh to offer membership to IMP3 nominees and arrange meeting in Bergen, Nov 2003. PL to write formal letters of appointment.

SOLAS Science Meetings in 2004

In light of the SOLAS Science 2004 conference, it was agreed not to run any sessions at other conferences unless strong demand is perceived.

SOLAS Science 2004.

The conference dates will be 13/10/04 - 16/10/04 inclusive. The themes of each day are listed below.

Day 1	Sulphur and Nitrogen	Wed
Day 2	Techniques and Modelling	Thurs
Day 3 (half day)	Linkages	Fri a.m only
Day 4	Halogens and Iron	Sat

ACTION: BM and PL to write letters of invitation to the speakers.

Upcoming meetings

The next SSC meeting will be held in Bergen from 2pm 3rd June – 6pm Sat 5th June 2004.

The SOLAS Executive Committee may meet at the end of the current year.