



Scientific Committee on Oceanic Research
Secretariat: Department of Earth and Planetary Sciences
The Johns Hopkins University
Baltimore, MD 21218 USA

PRESIDENT: Professor Bjørn Sundby
SECRETARY: Professor Jorma Kuparinen
EXECUTIVE DIRECTOR: Dr. Edward R. Urban, Jr

MEMORANDUM

TO: Attendees, 2007 SCOR Executive Committee Meeting

FROM: Ed Urban, SCOR Executive Director

RE: Background Book for Meeting

DATE: 25 July 2007

I am pleased to enclose the background book for the upcoming SCOR Executive Committee Meeting in Bergen, Norway. I hope that you have a chance to read it before the meeting, although I know that the time is limited and the background materials are extensive. Please be sure to review the annotated agenda following. I have tried to identify the actions that we need to consider at the meeting and have cross-referenced the issues to the pages where relevant background information can be found, so we can make the best use of our time together. Please skim the remainder of the book and focus on those sections that are most closely related to your interests and responsibilities. I hope that the book also will be a useful reference to you between SCOR meetings. The background book is also available on the Web, at <http://www.scor-int.org/2007EC.htm>.

We will not be able to bring many extra background books to the meeting, so please bring your copy. Please let me know if you think other items should be made available to participants at the meeting.

I look forward to seeing each of you in Bergen next month.

38th SCOR EXECUTIVE COMMITTEE MEETING
Radisson SAS Royal Hotel, Bryggen
Bergen, Norway
26-28 August 2007

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38th SCOR EXECUTIVE COMMITTEE MEETING
Radisson SAS Royal Hotel, Bryggen
Bergen, Norway

26-28 August 2007

ANNOTATED AGENDA

1.0 OPENING

1.1 Opening Remarks and Administrative Arrangements *Sundby, Urban*

1.2 Approval of the Agenda *Sundby*
Additions or modifications to the agenda as distributed may be suggested prior to approval of the final version.

1.3 Report of the President of SCOR *Sundby*
The President will briefly review activities since the SCOR General Meeting in October 2006 in Concepción, Chile.

1.4 Report of SCOR Executive Director *Urban*
The Executive Director will report on his activities since the 2006 SCOR meeting, and on the financial health of SCOR.

1.5 Appointment of an *ad hoc* Finance Committee *Sundby*
The SCOR Constitution requires that a Finance Committee be appointed at every SCOR meeting. It must consist of three members of SCOR who are not members of the Executive Committee. The Finance Committee reviews the administration of SCOR finances during the previous fiscal year, and the current year and will propose a budget for 2008 activities. The Committee will report to the meeting under agenda item **8.3**.

1.6 *Ad hoc* Committee to Review the Disciplinary Balance of SCOR's Activities *Sundby*
The Executive Committee meeting in 1999 agreed that at future SCOR meetings, after the consideration of working group proposals is complete, the current disciplinary balance of SCOR groups should be assessed. Scientific gaps should be identified and communicated to national committees when the next request for working group proposals is sent.
Action: Approve a Disciplinary Balance Committee

1.7 2008 Elections for SCOR Officers *Duce*
Action: Set up Nominations Committee by end of meeting

2.0 WORKING GROUPS

2.1 Disbanded Working Groups

2.1.1 WG 78—Determination of Photosynthetic Pigments in Seawater *Urban*
SCOR approved funds in 2006 for production of Volume 2 of *Phytoplankton Pigments in Oceanography*. The book chapters are being produced and about US\$9600 has been raised from external sources to publish the book. Chapters are expected to be submitted to the publisher in December 2007.

Action: Discussed proposed funding approach.

2.2 Current Working Groups

The Executive Committee Reporter for each working group will present an update on working group activities and progress, and will make recommendations on actions to be taken. The Executive Committee should make preliminary decisions, based on the progress of working groups and the merits of the requests, about whether funding should be provided for 2008 activities of working groups that request funds. The Finance Committee will take into account the recommendations of the Executive Committee as it develops the 2008 SCOR budget, which is then subject to final approval by the meeting.

2.2.1 WG 111—Coupling Winds, Waves and Currents in Coastal Models *Mysak*
The group is developing a book entitled *Coupled Coastal Wind-Wave-Current Dynamics*, which will be published by Cambridge University Press. One co-chair of the group has agreed to work with the book editor to get the book completed.

Action: None?

2.2.2 WG 115—Standards for the Survey and Analysis of Plankton *Pierrot-Bults*
The group held its final meeting in May 2006 in Plymouth, UK at the Sir Alistar Hardy Foundation for Ocean Sciences and group members plan a series of papers for a special issue of the *Journal of the Marine Biological Association of the U.K.* Unfortunately, only one of the papers have been completed as planned and the timeline has slipped.

Action: ??.

2.2.3 WG 116—Sediment Traps and ²³⁴Th Methods for Carbon Export Flux Determination *Labeyrie*

The group completed its work with an article in the *Journal of Marine Research*.¹ SCOR approved the group's request in 2005 for extra funding for color figures in the publication and for reprints.

Action: Disband group.

¹ *Journal of Marine Research* 65:345-416.

2.2.4 SCOR/IOC WG 119—Quantitative Ecosystems Indicators for Fisheries Management

Burkill

The 2006 SCOR meeting approved for leftover registration fees from WG 119's symposium for another related meeting planned by one of the WG co-chairs. That meeting never occurred and the co-chair asked permission to use the funds for a workshop on "Coping with global change in marine social-ecological systems". This workshop will contribute to the objectives of both GLOBEC and IMBER. The Executive Committee approved this reprogramming in May 2007.

Action: Disband group.

2.2.5 WG 120—Marine Phytoplankton and Global Climate Regulation: The *Phaeocystis* Species Cluster As Model

Kuparinen

The group convened its symposium in September 2005 as their final meeting. The papers from the meeting were published in a special issue of the journal *Biogeochemistry* (see <http://www.springerlink.com/content/g12x20148815/?p=1d1789a4d9e24f9aa783b65b5dbea74e&pi=3> for online version).

Action: Disband group.

2.2.6 SCOR/IAPSO WG 121—Ocean Mixing

Akulichev

The final meeting of the group was held in conjunction with the 2007 IUGG General Assembly, where there will also be a special session on this topic. The purpose of the final WG meeting was to focus on how well the group met its goals, revisit the recommendations published in the *Deep-Sea Research* special issue, discuss plans for a series of Gordon Research Conferences on ocean mixing, and address any other issues that might be seen as bearing on the group's goals or legacy. A primary goal of this final meeting will be to discuss and outline a brief final report to be submitted for publication in a suitable journal such as *EOS*, *Oceanography* magazine, or the *Bulletin of the American Meteorological Society*.

Action: Disband group.

2.2.7 SCOR/LOICZ/IAPSO WG 122—Estuarine Sediment Dynamics

Sundby

The group will meet on September 23-27 at the University of Colorado, Boulder, Co, USA. The meeting will concentrate in finalizing the Terms of References of the group and defining the publication of its findings. This will be the group's final meeting, to finalize contributed papers to the special issue to *Coastal and Estuarine Science*.

Action: None.

2.2.8 SCOR/IMAGES WG 123—Reconstruction of Past Ocean Circulation (PACE)

Labeyrie

A special theme section on Past Ocean Circulation for the AGU publication, *Geochemistry, Geophysics, Geosystems (G-cubed)* published the papers that were presented at the 2005 workshop as well as related papers on the subject.² The group's work also resulted in a paper in *Science*.³

² <http://www.agu.org/contents/sc/ViewCollection.do?collectionCode=POCIRC1&journalCode=GC>

³ Jean Lynch-Stieglitz, Jess F. Adkins, William B. Curry, Trond Dokken, Ian R. Hall, Juan Carlos Herguera, Joël J.-M. Hirschi, Elena V. Ivanova, Catherine Kissel, Olivier Marchal, Thomas M. Marchitto, I. Nicholas McCave, Jerry F. McManus, Stefan Mulitza, Ulysses Ninnemann, Frank Peeters, Ein-Fen Yu, and Rainer Zahn. 2007. Atlantic Meridional Overturning Circulation During the Last Glacial Maximum. *Science* 316: 66-69.

Action: Disband group.

2.2.9 SCOR/IMAGES WG 124— Analyzing the Links Between Present Oceanic Processes and Paleo-records (LINKS)

Labeyrie

The group met for the final time on 20–24 November 2006, in Delmenhorst, Germany. It is preparing a series of 5 manuscripts that mainly target understanding the changes in ocean productivity and the connection to the recorded signal at the seafloor. The papers are designed to review the present state of the art in modern ocean process studies and in paleoceanography as well as to give recommendations for future studies. The main goal of the international workshop was the discussion of these manuscripts to finalize them for publication in a peer-reviewed journal (potentially *Biogeosciences* or *Global Biogeochemical Cycles*). It is planned to submit the papers in 2007.

Action: None.

2.2.10 WG 125—Global Comparisons of Zooplankton Time Series

Pierrot-Bults

The group held a full meeting in Lima, Peru in association with the International Conference on the Humboldt Current System: Climate, ocean dynamics, ecosystem processes, and fisheries (Nov. 27-Dec. 1 2006) and an opportunistic meeting in May 2007. The group is making good progress in bringing together zooplankton data from around the world. The NOAA National Marine Fisheries Service has committed funds to bring more participants (and data) into the process. The final meeting of the group will be held May 2008 in Gijon, Spain, to coincide with the symposium on “Effects of Climate Change on the World’s Oceans”. Prior to the symposium, the group will hold its meeting. During the symposium, the group will present one jointly authored summary paper in the symposium plenary session on “Impacts on Marine Ecosystems,” and has also requested a half-day workshop session on zooplankton time series. Papers on this topic will be collected for a special issue of *Progress in Oceanography* (editor-in-chief Cisco Werner has given us pre-approval for a special issue to appear in late 2008, and Pierre Pepin has agreed to serve as “arms-length” guest editor for the issue).

Action: Consider funding for 2008 meeting.

2.2.11 WG 126—Role of Viruses in Marine Ecosystems

Kuparinen

The group had a very productive meeting in Bergen, Norway in May . The major outcome of the Bergen meeting was a multi-lab comparison of techniques. The group established some mesocosms at the Bergen facility and used them as samples (one with nutrients added, one without, to produce communities of differing trophic status). Different counting techniques, different virus production techniques, and different molecular tools were compared. The group’s book, tentatively entitled *Methods in Aquatic Viral Ecology* is expected to be ready for publication in 2009. The group and a related group from EurOCEANS has been asked to write a perspective for *Nature Reviews Microbiology*, which will be submitted soon. Currently, the group is planning to hold its final meeting in 2009, most likely somewhere central to most of the members. This is a slight departure from the planned final meeting in 2008, but the group feels it is prudent as it will allow us to see the book through to its completion.

Action: None; no meeting planned for 2008.

2.2.12 SCOR/IAPSO WG 127 on Thermodynamics and Equation of State of Seawater

Mysak

The group held its second meeting on 7-11 May in Reggio Calabria, Italy, where progress on their terms of reference was reported. Many of the tasks are being pursued by individual members or subcommittees. The group plans to meet next in Berlin on 4-10 September 2008 in conjunction with the International Association of the properties of water and seawater. There will be a joint session between the two groups.

Action: Consider funding for 2008 meeting.

2.2.13 WG 128 on Natural and Human-Induced Hypoxia and Consequences for Coastal Areas

Duce

The group will meet for the second time on 20-23 September in Shanghai, China, in conjunction with the IMBER/LOICZ Continental Margins Open Science Meeting, where they will present a special session. Most of the papers for their special issue (potentially for *Biogeosciences*) are underway and will be discussed at the Shanghai meeting.

Action: Consider funding for 2008 meeting.

2.2.14 SCOR/IAPSO WG 129 on Deep Ocean Exchanges with the Shelf

MacCracken

This group met for the first time on 10-11 July in Perugia, Italy in conjunction with the IUGG meeting there. They discussed how they will fulfill their term of reference and interact with related groups, as well as starting planning for a workshop in 2008. The group would like to hold its 2008 meeting in Cape Town, South Africa in order to do capacity building on their topic. A request for SCOR travel funds is included on the list in Tab 5.1

Action: Consider funding for 2008 meeting.

2.2.15 SCOR WG 130 on Automatic Plankton Visual Identification

Burkill

This group met for the first time on 2-3 June in Hiroshima, Japan in conjunction with the Fourth International Zooplankton Production Symposium there. The group developed an ambitious plan to fulfill its terms of reference. Its 2008 meeting will be partially or wholly funded by the Brazilian company Petrobras.

Action: Consider funding for 2008 meeting.

2.3 New Working Group Proposals

Three working group proposals were received by the SCOR Secretariat. SCOR can fund one or two new working groups to begin in 2008.

2.3.1 Working Group on Land-based Nutrient Pollution and the Relationship to Harmful Algal Blooms in Coastal Marine Systems

Kuparinen

Action: Determine whether to approve as new SCOR working group.

2.3.2 Working group on the Coral Triangle: The centre of maximum marine Biodiversity

Burkill

Action: Determine whether to approve as new SCOR working group.

2.3.3 The Legacy of *in situ* Iron Enrichments: Data Compilation and Modeling *Duce*
Action: Determine whether to approve as new SCOR working group.

3.0 LARGE-SCALE SCIENTIFIC PROGRAMS

3.1 SCOR/IGBP/IOC Global Ocean Ecosystems Dynamics (GLOBEC) Project *Burkill*

GLOBEC held its 2007 SSC meeting in Hiroshima, Japan in conjunction with the Fourth International Zooplankton Production Symposium in May 2007. GLOBEC continues its integration and synthesis activities to work toward its completion at the end of 2009. GLOBEC and IMBER are working together on an activity on end-to-end food webs and will be developing a transition team in fall 2007 to identify aspects of GLOBEC that IMBER might take on after GLOBEC ends.

Action: Consider new SSC chair.

3.2 SCOR/IOC Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB) Program *Hong*

GEOHAB continues to develop its Core Research Projects (CRPs). The research plan for the HABs in Eutrophied Systems was published in 2007 and NOAA is providing funding for this CRP, through IOC. The SSC is beginning a discussion about adding a CRP on benthic HAB species, such as those that cause ciguatera. A new Asian GEOHAB activity is under development and a second meeting will be held in Vietnam in January 2008. A new GEOHAB Web site has been launched (see <http://www.obs-vlfr.fr/LOV/OMT/GEOHAB/>). Revised terms of reference were approved by SCOR and IOC this year. The next SSC meeting will be held in Annapolis, Maryland, USA in April 2008. GEOHAB still needs an International Program Office.

Action: Consider new SSC members.

3.3 SCOR/IGBP Integrated Marine Biogeochemistry and Ecosystem Research (IMBER) Project *Duce*

The IMBER SSC met in June 2007 in Victoria, B.C., Canada to discuss implementation activities. The IMBER Data Management Committee met in conjunction with the SSC meeting and is making good progress in developing the IMBER data management system. IMBER and LOICZ are planning a joint open science meeting on coastal margin science in Shanghai, China in Sept. 2007. IMBER will hold an open science meeting in late 2008, with an innovative structure.

Action: Consider new SSC members.

3.4 GEOTRACES Project *Duce*

The GEOTRACES Scientific Steering Committee held its first meeting in San Francisco, California, USA, on 16-18 December 2006. The major actions resulting from the meeting

included formation of a standing GEOTRACES data management committee; initial planning for a GEOTRACES Data-Model Synergy Workshop to be held at the Hanse Wissenschaftskolleg in Delmenhorst, Germany; and initial planning for three meetings for GEOTRACES cruises in the Pacific (26-29 June 2007 in Honolulu, Hawaii, USA), Atlantic (10-12 September 2007 in Oxford, UK), and Indian (October 2007 in Goa, India) oceans. The U.S. National Science Foundation has funded two GEOTRACES intercalibration cruises, which will include international participation. GEOTRACES is also in initial discussions regarding the placement of an international GEOTRACES data management office. The GEOTRACES SSC will meet next in Barcelona, Spain in November 2007. At that time, the results of the four planning meetings will be presented and a global cruise plan will be developed.

Action: None.

3.5 SCOR/IGBP/WCRP/CACGP Surface Ocean-Lower Atmosphere Study *Hong*

SOLAS held its second open science meeting in Xiamen, China in March 2007 and also is planning its third summer school for 2007 (see <http://www.solas-int.org/>). SOLAS and IMBER have created a cooperative research activity related to ocean carbon and have formed a working group to guide the activity and to interact with IOCCP. The SCOR Executive Committee and other co-sponsors approved a new chair (Prof. Dr. Doug Wallace, Germany) and members of the SSC in May 2007.

Action: None

4.0 OCEAN CARBON AND OTHER ACTIVITIES

4.1 IOC/SCOR International Ocean Carbon Coordination Project (IOCCP)

Sundby, Urban

IOCCP has continued to be very productive in the past year (see **p. 4-1**). IOCCP led planning for a Surface Ocean CO₂ Variability and Vulnerabilities Workshop on 11-14 April in Paris, France. NSF is funding 1+ positions at IOC for IOCCP and is providing activity funding through SCOR. IOCCP is about to publish a revised CO₂ methods handbook. The group's major activity for the coming year will be a panel to revise the WOCE/CLIVAR hydrography manual.

Action: None

4.2 SCOR-IOC International Symposium on "The Ocean in a High-CO₂ World" *Duce*

SCOR, IOC, IAEA and IGBP are planning a second symposium, in Sept./Oct 2008, at the Oceanography Museum in Monaco. The symposium planning committee met late in February 2007. Half of the speakers for the symposium have been selected and half will be chosen on the basis of abstracts submitted. An email announcement has been distributed and a Web site developed (by Maria Hood at IOC) as a portal to international activities related to the science of ocean acidification (see <http://ocean-acidification.net/>).

Action: None.

4.3 Other Activities

4.3.1 SCOR Summit of International Marine Research Projects *Burkill, Sundby, Urban*

SCOR obtained funding from the Alfred P. Sloan Foundation to convene a second meeting of representatives of the major large-scale ocean research projects, both SCOR-sponsored and others. The meeting was held in London, England on Dec. 7-9, 2006, co-chaired by Peter Burkill (UK) and Bjørn Sundby (Canada). The meeting was preceded by a one-half day session convened by CLIVAR as a planning session for a workshop focused on getting climate data (and scientists) from CLIVAR into other projects. GLOBEC and IMBER have joined CLIVAR in planning this workshop. The major action items from the meeting were to create a SCOR panel to investigate data publications and persistent data identifiers for ocean sciences, creation of a letter to national funding agencies regarding the need to encourage collection and submission of bathymetric data from the Southern Ocean, creation of a Web portal of ocean capacity-building activities (see http://www.scor-int.org/Capacity_Building/index.htm), creation of a letter to space agencies on the urgency of maintaining, and location of funding for a 2008 Project Summit.

Actions: Discuss potential funding sources for a 2008 meeting.

4.3.2 Panel on New Technologies for Observing Marine Life *Pierrot-Bults*

The third meeting of the panel was held in Kobe, Japan in October 2006, in conjunction with the Census of Marine Life (CoML) Natural Geography in Shore Areas (NaGISA) project's open science meeting (see report on **p. 4-48**) and Techno-Ocean 2006. The Panel convened a special session at the Techno-Ocean meeting to attract technology companies to work on CoML-related issues. The special session focused on applications of electronic tags and autonomous undersea vehicles to CoML projects. The panel will meet next at the CoML All Program meeting in Auckland, New Zealand in November 2007. In October 2007, the Panel will sponsor a special session on geolocation of electronic tags on marine organisms, at a major symposium on electronic tagging (see <http://unh.edu/taggingsymposium/>). Ed Urban will discuss the Panel's activities with Jesse Ausubel of the Sloan Foundation in July 2007.

Action: Approve new Panel members?

4.3.3 SOLAS/INI Workshop on Anthropogenic Nitrogen Impacts on the Open Ocean *MacCracken*

SCOR approved funding at its 2005 meeting for a joint SOLAS-International Nitrogen Initiative (INI) workshop on 17-20 November 2006 in Norwich, UK. This workshop focused on the current understanding of the potential for changes in open ocean health due to human alteration of the marine nitrogen cycle, either directly or indirectly. The goal of the workshop was to bring together a group of international experts to evaluate the effects of atmospheric inputs of anthropogenic nitrogen on the open ocean environment and to produce a major synthesis paper and additional papers for more specialized journals. Robert Duce (USA) and Julie la Roche (Germany) are co-chairing this activity.

Action: None

5.0 CAPACITY-BUILDING ACTIVITIES

5.1 SCOR Committee on Capacity Building

Ittekkot

SCOR approved the formation of a Committee on Capacity Building at its 2006 meeting and the terms of reference for the committee. The committee was approved by the SCOR Executive Committee in July 2007 and commenced work soon thereafter.

Actions: None?

5.1.1 Regional Graduate Schools of Oceanography and Marine Environmental Sciences

Ittekkot

This activity is still unfunded, but the new Committee on Capacity Building will discuss potential funding sources. The committee will consider potential regional meetings to explore the idea on a regional basis.

Action: None

5.1.2 POGO-SCOR Visiting Fellowships for Oceanographic Observations

Urban

38 applications were received for this program in 2007. POGO and SCOR awarded 13 fellowships.

Action: Consider whether to provide funding in 2008.

5.1.3 NSF Travel Support for Developing Country Scientists

Urban

SCOR is at the beginning of the third year of a three-year grant received from the U.S. National Science Foundation at a level of \$75,000 per year. The grants have been an important source of support for several SCOR-related meetings in the past year (see 2006 *SCOR Proceedings*). New requests are listed on pp. 5-4 and 5-5.

Action: Consider new requests.

5.1.4 SCOR Reports to Developing Country Libraries

Urban

The SCOR Secretariat distributed three reports to developing country libraries since the 2006 SCOR meeting, the science plans for GEOTRACES and the GEOHAB Core Research Project on HABs in Eutrophied Systems, and the 2006 *SCOR Proceedings*.

Action: None

6.0 RELATIONS WITH INTERGOVERNMENTAL ORGANIZATIONS

6.1 Intergovernmental Oceanographic Commission

Sundby

Bjørn Sundby and Ed Urban attended the IOC Executive Council in June 2007 to represent SCOR. ICSU asked SCOR to represent ICSU at the meeting. Sundby and Urban made several interventions at the meeting on behalf of SCOR and/or ICSU (see p. 6-1). SCOR and IOC cooperate on several different activities, as discussed in other sections.

Action: None

6.1.1 Global Ocean Observing System (GOOS)

Hong

Huasheng attended the 2007 GOOS Scientific Steering Committee on behalf of SCOR and ICSU. The project summit discussed under agenda item 4.3.1 included a discussion of the interactions between GOOS and the major international ocean research projects.

Action: None.

6.2 Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP)

Duce

As noted at the 2006 SCOR meeting, a promising area of future interaction between SCOR and GESAMP could be in the area of capacity building. The SCOR Committee on Capacity Building will pursue cooperation with GESAMP.

Action: Discuss potential new SCOR interactions with GESAMP.

6.3 North Pacific Marine Science Organization (PICES)

Akulichev

PICES conducts several activities that are relevant to SCOR interests and that implement SCOR activities in the North Pacific region. Bjørn Sundby will represent SCOR at the October 2007 PICES meeting in Canada.

Action: Consider request for developing country scientist travel support.

7.0 RELATIONS WITH NON-GOVERNMENTAL ORGANIZATIONS

7.1 International Council for Science

Sundby, Urban

ICSU has continued its development of regional offices in Africa, Southeast Asia, and South America. ICSU has designated SCOR its representative at IOC and GOOS Scientific Steering Committee meetings.

Action: None

7.1.1 International Geosphere-Biosphere Program (IGBP)

Duce, Sundby

Bjørn Sundby attended the IGBP Science Committee meeting in Brazil in March 2007 to represent SCOR. SCOR and IGBP staff members have ongoing discussions in relation to co-sponsored projects. IGBP will hold its 2008 Congress in Cape Town, South Africa.

Action: Determine which SCOR decisions need to be transmitted to IGBP for comment and joint action, particularly in relation to approvals of SSC members for joint projects.

7.1.2 World Climate Research Programme (WCRP)

Ryabinin

WCRP is co-sponsoring the SOLAS project and SCOR projects are working well with CLIVAR, the part of WCRP most relevant to SCOR. CLIVAR representatives participated in the SCOR Project Summit in December 2006, and CLIVAR took advantage of this meeting to hold a planning meeting on Applications of Climate Information to Marine Research Projects, which is being jointly sponsored with GLOBEC and IMBER.

Action: Discuss any new interactions that SCOR should initiate with WCRP.

7.1.3 Scientific Committee on Antarctic Research (SCAR)

Kuparinen

SCAR and SCOR are co-sponsoring a joint Expert Group on Oceanography. The major event for this group for 2007 is a workshop to plan a Southern Ocean Observing System, on Oct. 1-3, 2007. SCOR will be represented by Ed Urban and most SCOR projects will have representatives at the meeting. Ed Urban helped obtain NOAA support for the meeting.

Action: Consider 2008 funding for the Expert Group on Oceanography

7.1.4 Scientific Committee on Problems of the Environment (SCOPE)

Sundby, Pierrot-Bults

SCOR's major cooperative activity with SCOPE (and IAPSO) in the PACKMEDS project (see p. 7-18).

Action: Discuss any new interactions that SCOR should initiate with SCOPE.

7.2 Affiliated Organizations

7.2.1 International Association for Biological Oceanography (IABO)

Pierrot-Bults

Action: Discuss potential areas of interaction with IABO.

7.2.2 International Association for Meteorology and Atmospheric Sciences (IAMAS)

MacCracken

IAMAS, as an association of IUGG, met at the IUGG General Assembly in Perugia, Italy in July 2007. The key IAMAS activities over the past year have been: 1) planning for the IAMAS-organized scientific symposia at the IUGG General Assembly in Perugia, 2-13 July, 2007; 2) planning for the IAMAS General Assembly, including the election of officers for the upcoming four-year term; 3) assisting in finalizing the assessment report prepared by the International Aerosol-Precipitation Assessment Group, IAPSAG, that has been co-sponsored by IAMAS and WMO; 4) representation of IAMAS with other organizations; 5) consideration of possible statute changes; and 6) improving communication via the Web and newsletters. Dr. Michael MacCracken, as IAMAS past-president, will continue as IUGG/IAMAS liaison to SCOR.

Action: Discuss potential areas of interaction with IAMAS.

7.2.3 International Association for the Physical Sciences of the Oceans (IAPSO) *Mysask*
SCOR and IAPSO are currently co-sponsoring WG 121 on Ocean Mixing, WG 122 on Estuarine Sediment Dynamics (with LOICZ), WG 127 on Thermodynamics and Equation of State of Seawater, and WG 129 on Deep Ocean Exchanges with the Shelf.

Action: None.

7.3 Affiliated Programs

The benefit of continued affiliation to SCOR is evaluated at each General Meeting. All of these programs were invited to send representatives to the project summit sponsored by SCOR in December 2006. SCOR is using the project summits to help (among other benefits) the affiliated projects interact with other large-scale ocean research projects; there is no other forum for this interaction to take place.

7.3.1 Applications for New Affiliated Programs: InterMARGINS *Labeyrie*

InterMARGINS applied for affiliation to SCOR in 2005. The application was discussed and approved, pending clarification of the membership fee structure, to make it more feasible for developing countries to participate. At the 2006 SCOR meeting, Laurent Labeyrie recommended that InterMARGINS should be affiliated to SCOR, pending one additional change: their constitution needs to make it clear that Assistant Members can be on the steering committee (see clause 3.1), and that at least one Assistant Member be included on the committee to reflect the views of the others. Extra funds should be sought to help participation of this developing country members to attend steering committee meetings. InterMARGINS has not responded to this request.

Action: Review response of InterMARGINS to SCOR request.

7.3.2 Census of Marine Life (CoML) *Burkill*

In 2010, this international research program will release its first report on the status of knowledge of marine biodiversity. To meet this deadline, CoML has begun implementing plans for integration, synthesis and visualization of marine biodiversity information, as well as the management needs to achieve them. This information is actively being collected by the 14 CoML Ocean Realm Field Projects and three cross-cutting initiatives in historical studies (HMAP – History of Marine Animal Populations), modeling and prediction (FMAP – Future of Marine Animal Populations), and data management and accessibility (OBIS – Ocean Biogeographic Information System). CoML will hold an All Program Meeting in Auckland in November 2007.

Action: None

7.3.3 International Antarctic Zone (iAnZone) Program *Orsi, Kuparinen*

iAnZone will meet in conjunction with the Polar Dynamics meeting in Bergen in August 2007, so iAnZone will be able to make a presentation to SCOR next year.

Action: None

7.3.4 International Marine Global Changes Study (IMAGES) *Labeyrie*

SCOR and IMAGES are co-sponsoring WG 123 on Reconstruction of Past Ocean Circulation and WG 124 on Analyzing the Links Between Present Oceanic Processes and Paleo-Records.

Action: None

7.3.5 InterRidge - International, Interdisciplinary Ridge Studies

Labeyrie

After three successful years under the leadership of Colin Devey at IFM-GEOMAR in Kiel, Germany, the InterRidge (IR) program office has moved on to the Woods Hole Oceanographic Institution (WHOI), Cape Cod, Massachusetts, USA. The IR office will remain there for the next three years (2007-2009). InterRidge has an active program of working groups and scientific meetings, as well as significant education and outreach activities.

Action: None

7.3.6 International Ocean Colour Coordinating Group (IOCCG)

Kuparinen

Two monographs have been published by IOCCG scientific working groups over the past year, bringing the total number of monographs in the IOCCG Report series to six. Five other scientific working groups are in various stages of progress.

Action: None

7.4 Other Organizations

7.4.1 Partnership for Observation of the Global Ocean (POGO)

Duce

The 2008 POGO meeting will be held in Bermuda in January 2008. POGO and SCOR are participating together on the POGO-SCOR Visiting Fellowships for Oceanographic Observations on developing new capacity-building activities. In the past year, the POGO Secretariat has moved to the Plymouth Marine Laboratory (UK) and Chris Reid is the new Executive Director. Tenders for a research cruise database were invited in 2006, evaluated by appropriate experts, including Ed Urban, and the tender from a SeaDataNet group selected. A proposal submitted to the Sloan Foundation to support the development was successful. The Web site can be found at <http://www.pogo-oceancruises.org/>. POGO devotes much effort to capacity building and to ocean input to the Global Earth Observing System of Systems (GEOSS).

Action: None

7.4.2 Arctic Ocean Sciences Board (AOSB)

Loeng

The AOSB re-established contact with SCOR this year and is interested in expanding its role in the global oceans programs and will be looking to new linkages with various international marine science organizations such as SCOR and GOOS.

Action: None.

8.0 ORGANIZATION AND FINANCE

8.1 Membership

8.1.1 National Committees

Duce, Urban

Bjørn Sundby and Ed Urban met with the UK SCOR Committee in December 2006 and with the French SCOR Committee in June 2007, in conjunction with other meetings. The changes in Nominated Members since the 2006 General Meeting are given on **p. 8-1**.

The Executive Committee approved a procedure in 2003 to change the status of members not paying their dues, to “Suspended Member” status, with less benefits. At the end of 2006, the Philippines was moved to suspended status. No other countries need to be considered for suspension at this time. The suspended countries are listed on the SCOR Web site as “Observer Nations”, to avoid stigmatizing these nations.

Action: None.

8.2 Publications Arising from SCOR Activities

Urban

Publications from Working Groups and Major Projects—Major publications from SCOR activities produced since the 2006 SCOR meeting include the following:

- GEOTRACES Science Plan
- Research Plan for GEOHAB Core Research Project on HABs in Eutrophied Systems
- Jean Lynch-Stieglitz, Jess F. Adkins, William B. Curry, Trond Dokken, Ian R. Hall, Juan Carlos Herguera, Joël J.-M. Hirschi, Elena V. Ivanova, Catherine Kissel, Olivier Marchal, Thomas M. Marchitto, I. Nicholas McCave, Jerry F. McManus, Stefan Mulitza, Ulysses Ninnemann, Frank Peeters, Ein-Fen Yu, and Rainer Zahn. 2007. Atlantic Meridional Overturning Circulation During the Last Glacial Maximum *Science* 316: 66-69.
- *Phaeocystis*, major link in the biogeochemical cycling of climate-relevant elements *Biogeochemistry* Volume 83, Numbers 1-3 / March, 2007 – Online publication available at <http://www.springerlink.com/content/g12x20148815/?p=1d1789a4d9e24f9aa783b65b5d1bea74e&pi=3> Hard copy publication expected in summer 2007

2006 *SCOR Proceedings*—The *Proceedings* was printed and distributed in July 2007.

SCOR Web site—The SCOR Web site is updated and checked for dead links regularly.

SCOR Newsletter—The SCOR Electronic Newsletter was started late in 2004, to provide more frequent updates about SCOR activities between annual meetings. Nine issues have been distributed so far. (All are available on the SCOR Web site.) The SCOR Secretariat will issue three newsletters each year. The SCOR Secretariat improved the layout and design of the Newsletter in 2007 and will continue to have it printed in hard copy occasionally for limited distribution.

SCOR Poster—The SCOR poster is still available in A0 and A3 size.

Action: Are additional changes needed to the Web site and/or the SCOR Newsletter?

8.3 Finances

Finance Committee, Urban, Gross

The annual audit was completed in May. Elizabeth Gross worked to prepare information for the auditors. The financial records and financial controls were found to follow accepted standards (see p. 8-6).

SCOR received a new grant of \$20,000 from NOAA in 2007 for activities of WG 125.

Actions: (1) Approve revised 2007 SCOR budget, (2) approve 2008 SCOR budget, and (3) approve dues increases for 2009.

8.4 The Disciplinary Balance among SCOR Working Groups *Disciplinary Balance Committee*

Actions: Discuss instructions needed for 2008 working group proposals.

9.0 SCOR-RELATED MEETINGS

9.1 SCOR Annual Meetings

Meeting participants will consider potential locations in which to hold future meetings, particularly in nations that have not recently hosted annual meetings.

9.1.1 2007 Executive Committee Meeting – Bergen, Norway

Sundby

Action: Thank Norwegian hosts for their hospitality and for their provision of extra funds to help SCOR pay for meeting expenses in Bergen.

9.1.2 2008 General Meeting -- SCOR 50th Anniversary— Woods Hole, USA *Labeyrie*

SCOR will hold its 2008 meeting in Woods Hole to celebrate SCOR's 50th Anniversary, since Woods Hole was the site of the first SCOR annual meeting, in 1957. The organizing committee (chaired by Laurent Labeyrie) will update meeting participants on plans for the 2008 meeting.

Action: Discuss SCOR travel support for speakers and developing country scientists.

9.1.3 2009 Executive Committee Meeting

Sundby

Tentative expressions of interest for locations of the 2009 SCOR meeting have been made by the International Atomic Energy Agency in Monaco and by the China-Beijing SCOR Committee. Other locations are also possible, depending on interests of National SCOR Committees.

Action: Consider meeting location for 2009.

9.2 Other meetings of interest to SCOR

Urban

Other SCOR-related meetings are listed on p. 9-3.