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MEMORANDUM

TO: Attendees, 2010 SCOR General Meeting
FROM: Ed Urban, SCOR Executive Director
RE: Background Book for Meeting
DATE: 14 August 2010

I am pleased to enclose the background book for the upcoming SCOR General Meeting in Toulouse. 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/2010GM.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 Toulouse next month.

XXXth SCOR GENERAL MEETING

Toulouse, France
13-16 September 2010

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Agenda for 2010 SCOR General Meeting				
	Mon., Sept. 13	Tues., Sept. 14	Wed., Sept. 15	Thurs., Sept. 16
9:00	SCOR Executive Committee meets in Closed Session	WG Proposals (cont.)	Census of Marine Life	IOC
9:15				ICES
9:30				
9:45				
10:00		InterRidge, IOCCG, IMAGES, iAnZone, Ocean Mixing	PICES	
10:15				
10:30		BREAK	BREAK	BREAK
10:45		WG Proposals (cont.)	French Ocean Science Symposium	ICSU
11:00				IGBP
11:15				
11:30				
11:45				IABO, IAMAS, IAPSO
12:00				
12:15				
12:30	LUNCH	LUNCH	LUNCH	
12:45				
13:00				Welcome, Logistics, and Introductions
13:15				President's Report Approval of Agenda
13:30	Exec. Director's Report	Final Report from GLOBEC	French Ocean Science Symposium (cont.)	Report of Ad Hoc Disciplinary Balance Committee
13:45	Appointment of Ad Hoc Finance and Disciplinary Balance Committees			
14:00	Announce results of 2010 elections			
14:15	Current WGs	SOLAS	Finances Report of Ad Hoc Finance Committee	
14:30		GEOTRACES		
14:45				
15:00				
15:15	BREAK	BREAK	BREAK	BREAK
15:30				
15:45	WG Proposals	IMBER	French Ocean Science Symposium (cont.)	SCOR Executive Committee (closed)
16:00		GEOHAB		
16:15				
16:30		Ocean Carbon and other activities		
16:45				
17:00				
17:15	SCOPE, WCRP, SCAR, POGO, AOSB			
17:30				
17:45	Welcome Cocktail	Group Dinner at Le Moai		
18:00				

XXXth SCOR GENERAL MEETING

Toulouse, France

13-16 September 2010

ANNOTATED AGENDA

1.0 OPENING

1.1 Opening Remarks and Administrative Arrangements, p 1-1 *Jeandel, Fennel, Urban*

1.2 Approval of the Agenda, p. 1-4 *Fennel*

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 *Fennel*

The President will briefly review activities since the SCOR Executive Committee Meeting in October 2009 in Beijing.

1.4 Report of SCOR Executive Director, p. 1-5 *Urban*

The Executive Director will report on his activities since the 2009 SCOR meeting, and on the financial health of SCOR.

1.5 Appointment of an *ad hoc* Finance Committee, p. 1-9 *Fennel*

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 2011 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, p. 1-9

Burkill

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 when the next request for working group proposals is sent.

Action: Approve a Disciplinary Balance Committee

1.7 2010 Elections for SCOR Officers, p. 1-9 *Sundby*

A nominating and election process has been carried out since last year's meeting. The slate of candidates was transmitted to national SCOR committees on 14 July 2010 and will be elected on 31 August, if there are no objections to the slate from three or more national SCOR committees.

Action: Announce elected officers and/or election.

2.0 WORKING GROUPS

2.1 Disbanded Working Groups

2.1.1 SCOR/LOICZ/IAPSO WG 122—Estuarine Sediment Dynamics, p. 2-1 *Sundby*

The group's special issue of *Estuarine, Coastal and Shelf Sciences* appeared since last year's meeting¹ and the group was disbanded and thanked group members for their service.

Action: None.

2.1.2 WG 126—Role of Viruses in Marine Ecosystems, p. 2-4 *Kuparinen*

The group's book *Methods in Aquatic Virus Ecology* (MAVE) was published in early 2010 (see <http://aslo.org/books/mave/>). The group was disbanded and members thanked for their service.

Action: None.

2.1.3 WG 128 on Natural and Human-Induced Hypoxia and Consequences for Coastal Areas, p. 2-8 *Burkill*

The group has completed its special issue of *Biogeosciences* (see http://www.biogeosciences.net/special_issue34.html). Last year's SCOR meeting agreed to disband this group when the special issue is completed, so thank you letters will be sent to all working group members. A small number of hard copies of the special issue will be printed.

Action: None.

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. Any working group chairs present will be given time to make comments about their group. 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 2011 activities of working groups that request funds. The Finance Committee will take into account the recommendations of the Executive Committee as it develops the 2011 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, p. 2-12 *Mysak*

The group is still attempting to complete its book entitled *Coupled Coastal Wind-Wave-Current Dynamics*, which will be published by Cambridge University Press (CUP). The Executive Committee will discuss disbanding the group this year whether or not the book is completed, due to the long duration of the group. The chair has reported that several members are still working on the book and CUP is still waiting for it.

Action: Disband group?

¹Mechanisms of Sediment Retention in Estuaries. Special issue of *Estuarine, Coastal and Shelf Science*, Volume 87(2):175-366

2.2.2 SCOR/IMAGES WG 124— Analyzing the Links Between Present Oceanic Processes and Paleo-records (LINKS), p. 2-13

Compton, Sicre

No report was received.

Action: Disband group?

2.2.3 WG 125—Global Comparisons of Zooplankton Time Series, p. 2-14 *Pierrot-Bults*

The group held its final meeting in May 2008 in Gijon, Spain, before the symposium on “Effects of Climate Change on the World’s Oceans”. During the symposium, the group presented one jointly authored summary paper in the symposium plenary session on “Impacts on Marine Ecosystems,” and also held a one-day workshop session on zooplankton time series. 15-20 papers from the working group have been submitted for a special issue of *Progress in Oceanography*. Publication is expected in late 2010. The NOAA National Marine Fisheries Service committed funds to bring more participants (and data) into the process. The 2009 SCOR meeting approved disbanding the group when the special issue is completed.

Action: None.

2.2.4 SCOR/IAPSO WG 127 on Thermodynamics and Equation of State of Seawater, p. 2-18

Mysak

The TEOS-10 Manual has now been published (in English) as IOC, SCOR and IAPSO, 2010: *The international thermodynamic equation of seawater – 2010: Calculation and use of thermodynamic properties*. Intergovernmental Oceanographic Commission, Manuals and Guides No. 56, UNESCO (English), 196 pp. It is available from IOC, and electronically from <http://www.TEOS-10.org>. WG127 and IOC have now begun to write a succinct summary of the TEOS-10 Manual in the form of a User’s Guide. This User’s Guide will be translated into several languages. The group has created links with the International Association for the Properties of Water and Steam (IAPWS) and will have a proposal by the time of the SCOR meeting for cooperation with IAPWS to continue the group’s work.

Action: Consider extension of the WG until mid-2011 or as otherwise suggested by the time of the SCOR meeting.

2.2.5 SCOR/IAPSO WG 129 on Deep Ocean Exchanges with the Shelf, p. 2-23 *Mysak*

The group’s special issue of *Ocean Science* is nearly completed, with 9 papers published (see http://www.ocean-sci.net/special_issue18.html), two under review, and two expected to be submitted soon.

Actions: Consider how to follow-up on group’s recommendations.

2.2.6 SCOR WG 130 on Automatic Plankton Visual Identification, p. 2-28 *Burkill*

The group held its final meeting funded by SCOR in May 2010 in Villefranche-sur-Mer, France. Group members have developed a network of scientists working on automated plankton identification and published several reviews related to the group’s work. The group has requested a 4-year no-cost extension to the group "to continue to support the adoption of new software technology and to act as focus for innovation. A strong international effort is required to compensate for the decline in people skilled in plankton taxonomy. Growing the associated membership to fully include all research groups will further strengthen and facilitate growth in this important area."

Action: Consider a “no cost” extension of the group.

2.2.7 SCOR WG 131 on The Legacy of in situ Iron Enrichment: Data Compilation and Modeling, p. 2-75 *MacCracken*

The group is still represented by two co-chairs, Philip Boyd (New Zealand) and Dorothee Bakker (UK). Until now, SCOR has provided partial funding for a post-doctoral fellow to gather data and metadata, and to work with the open-access Biological and Chemical Oceanography Data Management Office (BCO-DMO) at Woods Hole. The group launched its database in conjunction with the Ocean Sciences Meeting in February 2010 and the EGU meeting in May 2010. The group would like permission to use the remainder of its funding to support an iron fertilization modeling and synthesis meeting in 2011. They are in discussion with GEOTRACES about co-hosting the meeting, as part of GEOTRACES regular series of modeling meetings.

Action: Consider whether to allocate the funding requested.

2.2.8 SCOR/LOICZ WG 132 on Land-based Nutrient Pollution and the Relationship to Harmful Algal Blooms in Coastal Marine Systems, p. 2-80 *Kuparinen*

The group plans to hold its final meeting in Crete, Greece, in conjunction with the 14th International Conference on Harmful Algae. They have published several papers related to their activities,² but would like to continue their existence beyond 2010.

Action: Consider “no cost” extension of the group to the end of 2011.

2.1.9 SCOR/IAPSO WG 133: OceanScope, p. 2-90 *Feeley*

The group met for the second time in April 2010 at the International Council for Shipping. They are working on white papers related to each of their terms of reference.

Action: Consider funding for 2011 meeting.

2.1.10 SCOR WG 134 on The Microbial Carbon Pump in the Ocean, p. 2-92 *Sundby*

This working group met for the first time in Xiamen, China, on 27-30 October, in the week after the SCOR Executive Committee meeting. A microbial subgroup and a geochemical subgroup were set up to facilitate addressing the detailed targets. The group published a paper in *Nature Reviews Microbiology*³ this year. They plan to hold their next meeting in Puerto Rico in February 2011, in conjunction with the ASLO meeting there. One focus for the meeting will be to consider experimental designs to test the effects of the microbial carbon pump and, potentially, to plan a joint effort on *in situ* experiments regarding the effects of the microbial carbon pump

Action: Consider funding for 2011 meeting.

² Glibert, P.M., J.I. Allen, A.F. Bouwman, C.W. Brown, K.J. Flynn, A.J. Lewitus, and C.J. Madden. 2010. Modeling of HABs and eutrophication: Status, advances, challenges. *Journal of Marine Systems* (in press).

³ Jiao, N., G.J. Herndl, D.A. Hansell, R. Benner, G. Kattner, S.W. Wilhelm, D.L. Kirchman, M.G. Weinbauer, T. Luo, F. Chen, and F. Azam. 2010. Microbial production of recalcitrant dissolved organic matter: long-term carbon storage in the global ocean. *Nature Reviews Microbiology* 8:593-599 (August 2010), doi:10.1038/nrmicro2386.

2.1.11 SCOR/InterRidge WG 135 on Hydrothermal energy transfer and its impact on the ocean carbon cycles, p. 2-98 *Feeley, Lebris*

This group met for the first time in Woods Hole (USA) on 23-24 November and plans to meet next in Hangzhou, China in April 2011. The group is planning a community-wide workshop for May/June 2012 in Europe, to help fulfill its terms of reference. Two review papers will be drafted, together with a shorter paper, that will capture key concepts and present them in an accessible form for the broad ocean science community, in advance of, and to set the scene for, the workshop in 2012. The first paper will focus on seafloor hydrothermal systems themselves and the second review paper will consider the interaction of hydrothermal systems with the water column and with the sub-seafloor.

Action: Consider funding for 2011 meeting.

2.1.12 SCOR/WCRP/IAPSO Working Group 136 On the Climatic Importance of the Greater Agulhas System, p. 2-105 *Compton*

The group held its first meeting in February 2010 over the weekend before the Ocean Sciences conference in Portland, Oregon. They are planning their second meeting and a capacity building workshop for East Africa in 2011. The group announced their group in EOS following the Portland meeting.

Action: Consider funding for 2011 meeting, including funding for developing country scientists.

2.1.13 WG 137: Patterns of Phytoplankton Dynamics in Coastal Ecosystems: Comparative Analysis of Time Series Observation, p. 2-111

The group will meet for the first time in Hangzhou, China in October 2010.

Action: Consider funding for 2011 meeting.

2.3 New Working Group Proposals

Six working group proposals were received by the SCOR Secretariat. SCOR can fund one or two new working groups to begin in 2011.

2.3.1 Global Analysis of coldwater Coral Ecosystems (GLACES), p. 2-136 *Burkill*

The European Science Foundation submitted a letter of support for this proposal.

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

2.3.2 Beyond the Conveyor: Advancing Training and Research in ‘Palaeo Physical Oceanography’, p. 2-144 *Mysak*

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

2.3.3 Organic Ligands – The Key Control on Trace Metal Biogeochemistry in the Ocean, p. 2-150 *Sundby*

The GEOTRACES project submitted a support letter for this proposal.

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

2.3.4 Modern Planktic Foraminifera and Ocean Changes, p. 2-157 *Kuparinen*
Action: Determine whether to approve as new SCOR working group.

2.3.5 Biodiversity Patterns of the South Atlantic Mid-Ocean Ridge, p. 2-165 *Pierrot-Bults*
Action: Determine whether to approve as new SCOR working group.

2.3.6 Research Vessel Cruise Information Coordination, p. 2-170 *Feeley*
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 , p. 3-1 *Burkill, Barange*

The final GLOBEC SSC meeting was held in Plymouth, UK in November 2009 and the IPO closed on 31 March 2010. The GLOBEC Synthesis Book was recently published.⁴ Although the GLOBEC IPO has now closed down there are a number of activities that are still pending:

- the GLOBEC special issue on the 3rd GLOBEC OSM in *Progress in Oceanography* (expected late 2010)
- the Elsevier Compendium with the top GLOBEC publications (expected autumn 2010).
- the GLOBEC Summary for Decision Makers, appearing both as part of the Elsevier Compendium as well as a stand-alone brochure.

Action: None.

3.2 SCOR/IOC Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB) Program, p. 3-39 *Hong, Urban*

GEOHAB continues to develop its Core Research Projects (CRPs). Reports for the Core Research Project on HABs in Fjords and Coastal Embayments and for Asian GEOHAB were printed this year. An Open Science Meeting on HABs in Benthic Environments was held in Hawaii in June and the organizing committee is busy working on the research plan from the meeting. GEOHAB held a successful Modeling Workshop in Galway, Ireland, in 2009 and a special issue of the *Journal of Marine Systems* has resulted from it (in press). The location and timing of the next SSC meeting are not set yet. Four new members joined the SSC this year: Paul Bienfang (USA), Michele Burford (Australia), Songhui Lu (China), and Gires Usup (Malaysia). The SSC is working toward completion of the project at the end of 2013.

Action: None.

3.3 SCOR/IGBP Integrated Marine Biogeochemistry and Ecosystem Research (IMBER) Project, p. 3-45 *Sundby, Maddison*

The IMBER SSC met most recently in May 2010 in Washington, D.C. to have an opportunity to meet with U.S. program managers. IMBER will hold its second Imbizo open science meeting in

⁴Barange et al. (ed.). 2010. Marine Ecosystems and Global Change. Oxford University Press.

October 2010 in Crete, Greece. Special journal issues have appeared from the first Imbizo.⁵ IMBER is seeking new funding to implement some activities it has developed, as well as others it adopted from GLOBEC.

Action: None.

3.4 GEOTRACES Project, p. 3-65

Sundby, Jeandel

The GEOTRACES Scientific Steering Committee held its fourth meeting in Washington, D.C. in November 2009 and will hold its next SSC and Data Management Committee meetings in Toulouse, France after the SCOR annual meeting. NSF and several European sources are co-funding the first full-time position for a GEOTRACES International Project Office in Toulouse, France and an Executive Officer (Elena Masferrer-Dodas) was hired in early 2010. Elena quickly produced a project brochure, in time for a lunchtime “town hall” meeting at the Ocean Sciences meeting in Portland, Oregon, USA in February. The town hall meeting was used to officially launch the cruise phase of GEOTRACES and to inform the broader ocean science community about the project. Masferrer is also redesigning the GEOTRACES Web site, which will be completed soon after the meetings in Toulouse. Data from cruises are being compiled by the International GEOTRACES Data Assembly Center, at the British Oceanographic Data Centre (see <http://www.bodc.ac.uk/geotraces/>).

Action: None.

3.5 SCOR/IGBP/WCRP/CACGP Surface Ocean-Lower Atmosphere

Study, p. 3-91

Hong, Breviere

SOLAS held its third open science meeting in Barcelona, Spain in November 2009 and completed its fourth summer school in August 2009. In April 2010, the SOLAS International Project Office (IPO) moved to the Leibniz-Institut für Meereswissenschaften (IFM-GEOMAR) in Kiel, Germany, where the SOLAS Chair, Doug Wallace is located. The Executive Officer, Emilie Brévière, is now relocated at IFM-GEOMAR. The IPO is supported until January 2013 by the German Ministry of Education and Research (BMBF) and IFM-GEOMAR. The SOLAS Scientific Steering Committee (SSC) met in Lueneburg, Germany at the end of April 2010 for its 10th meeting. The SOLAS SSC continues development of its 7 mid-term strategy topics and used its open science meeting in Barcelona to develop the topics. SOLAS Recently published a textbook based on its summer school series.⁶

Action: None

⁵ Special Issue of *Deep-Sea Research II*, Volume 57, Issue 16, Pages 1429-1592 (15 August 2010), Ecological and Biogeochemical Interactions in the Dark Ocean, edited by Deborah K. Steinberg and Dennis A. Hansell and special issue of *Progress in Oceanography*, Volume 54, Issues 1-2, Pages 1-138 (January-February 2010), Parameterisation of Trophic Interactions in Ecosystem Modelling, Edited by Michael A. St.John, Ivo Grigorov, Javier Ruiz and Patrick Monfray.

⁶ Corinne Le Quéré and Eric S. Saltzman. 2009. *Surface Ocean- Lower Atmosphere Processes. Geophysical Monograph Series*, Volume 187, 350 pp., hardbound, ISBN 978-0-87590-477-1, AGU Code GM1874771.

4.0 OCEAN CARBON AND OTHER ACTIVITIES

4.1 IOC/SCOR International Ocean Carbon Coordination Project (IOCCP), p. 4-1

Fennel, Urban

IOCCP has continued to be very productive in the past year. NSF is funding 1+ positions at IOC for IOCCP and is providing activity funding through SCOR. IOCCP's major accomplishments for the year have been the publication on the Web of the GO-SHIP hydrography manual (by the time of the SCOR meeting) and participation with the European Project on Ocean Acidification (EPOCA) in the production of a manual for best practices in ocean acidification experiments.⁷ IOCCP is also a major sponsor of the Surface Ocean CO₂ Atlas (SOCAT), an international effort to create a global database of the fugacity of carbon dioxide (fCO₂) in oceanic surface waters (<http://www.socat.info/>). Two data products will be made available as part of SOCAT: (1) a uniform, quality-controlled surface water fCO₂ data set and (2) a gridded monthly, global product with no interpolation.

Action: None

4.2 Symposia on The Ocean in a High-CO₂ World, p. 4-7

Urban

A summary paper about the second symposium appeared in the past year, in *Oceanography Magazine*. The special issue of *Biogeosciences* from the symposium is nearly completed, lacking one paper still in review. (Because *Biogeosciences* is an open-access journal, each paper is published online as it completes review.) SCOR, IOC, and IGBP have begun planning for the third symposium, which will be held in Monterey, California, USA, in Autumn 2012. A planning committee has been approved by the three co-sponsors and will meet in December 2010 in Monterey. The request for bids, the first time this approach has been used by SCOR, resulted in 8 bids. The Monterey bid included a significant commitment of funds and staff support. Efforts have started to raise additional support for the symposium. SCOR will be the administrative lead for the activity.

Action: Identify potential financial sponsors and appoint an Executive Committee Reporter.

4.3 Other Activities

4.3.1 Phytoplankton Pigments in Oceanography, p. 4-14

Urban

This is an activity to update a successful book published in 1997 and reprinted in 2005. The book is nearly completed and ready to deliver to Cambridge University Press, pending completion of data tables for it. The institutions where the editors of the book work have contributed significant funding, which will allow SCOR to purchase many copies of the book for free distribution and to increase the number of color plates in the book.

Actions: None

⁷ <http://www.epoca-project.eu/index.php/guide-to-best-practices-for-ocean-acidification-research-and-data-reporting.html>.

4.3.2 Panel on New Technologies for Observing Marine Life, p. 4-16 *Feeley*

The Panel's focus is on updating the Web pages for observing technologies available at <http://www.coml.org/investigating/home>. Members of the panel will participate at the Census Finale in London, UK in October 2010.

Action: None.

4.3.3 SCOR/IODE/MBLWHOI Library Data Publication Activity, p. 4-20 *Urban*

SCOR and IOC's International Oceanographic Data and Information Exchange (IODE) have been working together for the past 2.5 years on a project to promote getting data associated with research papers, as well as stand-alone data sets, into national and international data management systems. The MBLWHOI Library joined the activity in the past year and a meeting to check on progress of the activity was held in April at UNESCO Headquarters (see <http://www.scor-int.org/Publications/wr230.pdf>). The group has issued a challenge to data centers and libraries to establish data publications activities and the results of these pilot projects will be reported at the international conference of ICSU's Committee on Data for Science and Technology (CODATA) in October and at the Fall AGU Meeting in December.

Action: Consider budgeting funds for 2011.

4.3.4 SCOR/POGO Workshop on International Quiet Ocean Experiment, p. 4-22 *Urban*

The Alfred P. Sloan Foundation requested that SCOR and POGO convene a workshop to explore the idea of a International Quiet Ocean Experiment, which would involve a global or regional quieting of the ocean by stopping noise from human activities for a limited period. The workshop will be held at the University of Rhode Island on 27-29 October and will involve ocean acousticians, marine biologists, and representatives from navies and industry.

Action: None

5.0 CAPACITY-BUILDING ACTIVITIES

5.1 SCOR Committee on Capacity Building, p. 5-1 *Ittekkot*

The committee will meet for the third time in Bremen, Germany in August (see http://www.scor-int.org/CB_Summit.htm). The purpose of the meeting is to bring together representatives of organizations interested in capacity building for ocean research and observations, to discuss their experiences with existing activities, to identify new activities, and to discuss how the organizations could work together to create a global strategy for capacity building for ocean research and observations.

Actions: Consider requests from the Committee's meeting and funding request for 2011.

5.1.1 SCOR Visiting Scholars, p. 5-2 *Urban*

SCOR started a program of SCOR Visiting Scholars in 2009 and is funding its second and third Scholars in 2010. The program makes provides airfare and some funding for subsistence for ocean scientists to teach and mentor students for several weeks to months. Local hosts are expected to provide some support for local expenses.

Action: None

5.1.2 Regional Graduate Networks of Oceanography and Marine Environmental Sciences, p. 5-4 *Ittekkot*

This activity is still unfunded, but the Committee on Capacity Building will use its upcoming meeting to discuss the potential for RGNO.

Action: None.

5.1.3 POGO-SCOR Visiting Fellowships for Oceanographic Observations, p. 5-6 *Urban*

POGO and SCOR have co-funded this program since 2001 and have supported about 100 participants so far. Both recipients and hosts have expressed that this has been a worthwhile program.

Action: Consider whether to provide funding in 2011.

5.1.4 NSF Travel Support for Developing Country Scientists, p. 5-12 *Urban*

SCOR received the third year of its grant 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.

Action: Consider recommendations of the SCOR Committee on Capacity Building.

5.1.5 SCOR Reports to Developing Country Libraries *Urban*

The SOLAS textbook was distributed to libraries in developing countries and countries with economies in transition this year.

Action: None

6.0 RELATIONS WITH INTERGOVERNMENTAL ORGANIZATIONS

6.1 Intergovernmental Oceanographic Commission, p. 6-1 *Fennel, Watson-Wright*

Wolfgang Fennel and Ed Urban attended the IOC Executive Council in June 2010 to represent SCOR and ICSU. SCOR and IOC cooperate on several different activities, as discussed in other sections.

Action: None.

6.2 International Council for Exploration of the Seas, p. 6-3 *Fennel, Kellermann*

Much ICES work focuses on climate change and impacts on ecosystems and fisheries. ICES has been involved in various SCOR activities in the past few years, including GLOBEC, the most recent project summit, and the second symposium on The Ocean in a High-CO₂ World.

Action: None.

6.3 Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP), p. 6-5 *Urban*

SCOR provided support for one meeting of GESAMP Working Group 38 on The Atmospheric Input of Chemicals to the Ocean, which continues its work on three papers for the peer-reviewed literature, on (1) Impacts of atmospheric nutrient deposition on marine productivity: roles of nitrogen, phosphorus, and iron, (2) Impacts of anthropogenic SO_x, NO_x and NH₃ on

acidification of coastal waters and shipping lanes and (3) Atmospheric organic material and the nutrients it carries to the ocean.

Action: None.

6.4 North Pacific Marine Science Organization (PICES), p. 6-7 *Hong, Bychkov*

PICES conducts several activities that are relevant to SCOR interests and that implement SCOR activities in the North Pacific region and often supports members of SCOR working groups related to PICES activities. The 2010 PICES annual meeting was held in Korea immediately after the SCOR meeting, and Wolfgang Fennel and Ed Urban attended the meeting to represent SCOR and to meet with the new Korean SCOR Committee.

Action: Consider request for developing country scientist travel support.

7.0 RELATIONS WITH NON-GOVERNMENTAL ORGANIZATIONS

7.1 International Council for Science *Fennel, Chen*

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

Action: None

7.1.1 International Geosphere-Biosphere Program (IGBP), p. 7-1 *Fennel, Seitzinger*

Bjørn Sundby attended the 2010 IGBP Science Committee meeting in France to represent SCOR. SCOR and IGBP staff members have ongoing discussions in relation to co-sponsored projects.

Action: Determine which SCOR decisions need to be transmitted to IGBP for comment and joint action.

7.1.2 World Climate Research Programme (WCRP), p. 7-8 *MacCracken*

WCRP is co-sponsoring the SOLAS project and SCOR/WCRP/IAPSO WG 136 on Climatic Importance of the Greater Agulhas System. SCOR projects (including IOCCP) are working well with CLIVAR, the part of WCRP most relevant to SCOR. WCRP would like to discuss SCOR's possible involvement in the future work of the WCRP-IOC Task Group on Sea-level Variability and Change and support to its activities.

Action: Discuss SCOR involvement in WCRP-IOC Task Group.

7.1.3 Scientific Committee on Antarctic Research (SCAR), p. 7-13 *Kuparinen*

SCAR and SCOR are co-sponsoring a joint Expert Group on Oceanography. The major focus for this group in the past was continued work on a plan for a Southern Ocean Observing System, which is now out for community review (see <http://www.scar.org/soos/>). An office to promote implementation of the SOOS plan will be funded by Australia, but the group will need funding for activities. The Expert Group will focus its activities on implementation of SOOS for the new few years.

Action: Consider 2011 funding for the Expert Group on Oceanography/SOOS Implementation Committee.

7.2 Affiliated Organizations

7.2.1 International Association for Biological Oceanography (IABO), p. 7-15 *Pierrot-Bults*

The next IABO General Assembly will take place two weeks after the SCOR meeting. Mark Costello (New Zealand) has replaced Annelies Pierrot-Bults as IABO President and thus as an ex-officio member of the SCOR Executive Committee, but had a scheduling conflict with the Toulouse meeting. Charles Griffiths (South Africa) replaced Costello as the IABO General Secretary.

Action: Discuss potential areas of interaction with IABO.

7.2.2 International Association for Meteorology and Atmospheric Sciences (IAMAS), p. 7-17

MacCracken

Mike MacCracken, as IAMAS past-president, continues as IUGG/IAMAS liaison to SCOR. IAMAS conducts its work through 10 international commissions, which have been busy in the past year with meetings and producing several books, such as *Twenty Years of Ozone Decline* and *Aerosol Pollution Impact on Precipitation: A Scientific Review*.

Action: Discuss potential areas of interaction with IAMAS.

7.2.3 International Association for the Physical Sciences of the Oceans (IAPSO), p. 7-20

Mysak

SCOR and IAPSO are currently co-sponsoring WG 127 on Thermodynamics and Equation of State of Seawater, WG 129 on Deep Ocean Exchanges with the Shelf, OceanScope WG 133, and WG 136 on Climatic Importance of the Greater Agulhas System (with WCRP).

Action: None.

7.3 Affiliated Programs, p. 7-22

The benefit of continued affiliation to SCOR is evaluated at each General Meeting. These programs are invited to send representatives to SCOR project summits. 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 Census of Marine Life (CoML), p. 7-24

Burkill, Sibuet

In October 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. An impressive set of products will be released this year as part of the synthesis and finale. The final CoML conference will be held in London in October 2010 and SCOR will be represented there by Peter Burkill, Ed Urban, and the chair of the SCOR Panel on New Technologies for Observing Marine Life (Alex Rogers). Information about the SCOR Panel is presented under agenda item 4.3.2.

Action: None.

7.3.2 International Antarctic Zone (iAnZone) Program, p. 7-23 *Kuparinen*
iAnZone met in conjunction with MOCA'09 Assembly in Montreal in July 2009. The project will be ended its activities and its affiliation to SCOR for now.

Action: None.

7.3.3 International Marine Global Changes Study (IMAGES), p. 7-35 *Compton*
SCOR and IMAGES are currently co-sponsoring WG 124 on Analyzing the Links Between Present Oceanic Processes and Paleo-Records, and provided a letter of support in relation to WG 136 on the Climatic Importance of the Greater Agulhas System.

Action: None.

7.3.4 InterRidge - International, Interdisciplinary Ridge Studies, p. 7-38 *Compton*
InterRidge has an active program of working groups and scientific meetings, as well as significant education and outreach activities. SCOR and InterRidge are co-sponsoring WG 135 on Hydrothermal Energy Transfer and its Impact on the Ocean Carbon Cycles. The InterRidge office moved to the National Oceanography Centre in Southampton, UK, in 2010. InterRidge sponsors its own working groups and workshops on topics such as Mantle Imaging, Seafloor Mineralisation, and Long-Range Exploration of the Ridge Crest.

Action: None.

7.3.5 International Ocean Colour Coordinating Group (IOCCG), p. 7-41 *Kuparinen*
Several monographs are in progress by IOCCG scientific working groups and seven have been published in the IOCCG Report series so far. The reports from three working groups/projects were published by the IOCCG over the last year and have been distributed free of charge to more than 1,000 subscribers on the IOCCG mailing list: (1) SAFARI Project (Societal Applications in Fisheries & Aquaculture using Remote Sensing Imagery), (2) Global Ecological Provinces, and (3) Atmospheric Correction Algorithms. These four working groups are in various stages of progress, and at least one WG is expected to provide a draft copy of their report within the next year: (1) Ocean Colour from a Geostationary Platform, (2) Bio-optical Sensors on Argo Floats, (3) Phytoplankton Functional Types (PFTs), and (4) Level-1 Requirements. The Joint GEOHAB/IOCCG WG on HABs was approved this year. The last group is notable as the first joint activity of IOCCG and a SCOR project.

Action: None.

7.3.6 Ocean Mixing Processes *Fennel*
No report has been received yet.

Action: None.

7.4 Other Organizations

7.4.1 Arctic Ocean Sciences Board (AOSB), p. 7-50 *Kuparinen*

The AOSB re-established contact with SCOR in 2007 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. AOSB merged with the International

Arctic Science Committee in 2009, but will maintain a discrete profile within IASC. The AOSB met in Nuuk, Greenland on 15 April 2010, where it determined that it will continue to support its key initiatives including the integrated Arctic Ocean Observing System (iAOOS), the Arctic in Rapid Transitions initiative, and support of deep sea Arctic drilling.

Action: None.

8.0 ORGANIZATION AND FINANCE

8.1 Membership

8.1.1 National Committees, p. 8-1

Urban

The changes in Nominated Members since the 2009 Executive Committee Meeting are given on p. 8-1.

Action: None.

8.2 Publications Arising from SCOR Activities, p. 8-4

Urban

The list of publications from SCOR-funded activities that have appeared in the past year can be found on p. 8-4.

2009 *SCOR Proceedings*—The *Proceedings* will be printed and distributed in electronic form in September. A limited number of hard copies may be printed.

SCOR Web site—The SCOR Web site is updated and checked for dead links regularly. The site underwent a moderate re-design in the past year.

SCOR Newsletter—The SCOR Newsletter was started late in 2004, to provide more frequent updates about SCOR activities between annual meetings. Sixteen issues have been distributed so far. (All are available on the SCOR Web site.) The SCOR Secretariat issues 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.

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

8.3 The Disciplinary Balance among SCOR Working Groups, p. 8-4

Burkill

Peter Burkill will lead a group to consider the disciplinary balance among SCOR working groups and to make recommendations on any specific topics for the 2011 call for working group proposals.

Actions: Discuss instructions needed for 2011 working group proposals.

8.4 Finances, p. 8-6

Finance Committee, Urban, Gross

The annual audit was completed in August. Elizabeth Gross worked to prepare information for the auditors. The financial records and financial controls were found to follow accepted

standards (see **Tab 8**). New U.S. government requirements resulted in a more expensive audit and more work for SCOR staff.

SCOR received the following new or renewal grants since the 2009 SCOR meeting:

- Third year of NSF grant for travel of scientists from developing countries to ocean science meetings
- First year of the three-year science grant from NSF.
- Grant from the Alfred P. Sloan Foundation for an exploratory workshop with POGO on an International Quiet Ocean Experiment.

Actions: (1) Approve revised 2010 SCOR budget, (2) approve 2011 SCOR budget, and (3) approve any dues increases for 2012, as recommended by the Finance Committee.

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 2010 General Meeting – Toulouse, France, p. 9-1

Fennel

Action: Thank hosts.

9.1.2 2011 Executive Committee Meeting – Helsinki, Finland, p. 9-1

Kuparinen

The Finnish SCOR committee decided on 17 November 2009 to invite the international SCOR 2011 committee meeting to Helsinki, Finland. The SCOR Executive Committee accepted the invitation.

Action: Set dates and discuss other meeting-related issues.

9.1.3 2012 General Meeting – Halifax, Canada, p. 9-1

Macdonald

The SCOR Executive Committee has accepted an invitation to hold the 2012 SCOR General Meeting in Halifax, Nova Scotia, Canada.

Action: Discussion of potential meeting venues, timing, and associated events.

9.1.4 2013 Executive Committee Meeting, p. 9-3

Fennel

A location needs to be selected for the 2013 Executive Committee meeting, particularly a location in the Southern Hemisphere and/or in a developing country. The actual location does not need to be decided at this meeting.

Action: Discussion potential locations.

9.1.5 2014 General Meeting – Bremen, Germany, p. 9-3

Fennel

The SCOR Executive Committee has accepted an invitation to hold the 2014 SCOR General Meeting in Bremen, Germany.

Action: None

9.2 Other meetings of interest to SCOR

Urban

Other SCOR-related meetings are listed on **p. 9-5**.