

## ANNEX 3- Agenda

### XXIV GENERAL MEETING OF SCOR Amsterdam, The Netherlands

November 1-5 1998

#### 1.0 OPENING

The meeting will open with a short session on Sunday afternoon, November 1, at which some of the more administrative issues (such as reports from other organizations, requests for SCOR sponsorship of international meetings, etc.) will be dealt with, in order to shorten the week and allow for the visit to the Netherlands Institute of Sea Research at Texel on Wednesday. The meeting will close at the end of the day on Thursday, allowing participants to depart on Friday.

- 1.1 **Opening Remarks and Administrative Arrangements**
- 1.2 **Approval of the Agenda** - 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** - the President will briefly review activities since the 33rd Executive Committee meeting (September 1997)
- 1.4 **Appointment of an ad hoc Finance Committee** - the Constitution requires that a Finance Committee be appointed at every SCOR meeting. It reviews the administration of SCOR finances during the previous fiscal year and the current year. It will also propose a budget for 1997 activities based on the decisions taken during the meeting. The Committee will report to the General Meeting under agenda item 3.3.

#### 2.0 WORKING GROUPS

- 2.1 **Arising from Former Working Groups**
  - 2.1.1 **WG 80 Role of Phase Transfer Processes in the Cycling of Trace Metals in Estuaries**  
Progress with the final report.
- 2.2 **Current Working Groups**

**Participants are reminded that the SCOR Constitution and the Objectives and Procedures for SCOR Working Groups specify that the tenure of SCOR subsidiary bodies automatically expires at each General Meeting. Their reports must demonstrate adequate justification for their reinstatement for an additional two years. The Executive Committee Reporter for each working group will present the relevant report and will make recommendations to the General Meeting on the actions to be taken.**

  - 2.2.1 **WG 86 Ecology of Sea Ice**  
Report from the Chair. The group is reconsidering its decision to publish a book. Its final meeting was the successful Gordon Research Conference which it organized in 1997. but a GRC rule prohibits the publication of conference proceedings. The General Meeting should consider whether it is appropriate to disband WG 86.
  - 2.2.2 **WG 89 Sea Level and Erosion of the World's Coastlines**  
Progress with final publication. Report from the Chair.
  - 2.2.3 **WG 93 Pelagic Biogeography**  
The final report of WG 93 was published by IOC in 1998.

- 2.2.4 *WG 97 Physiological Ecology of Harmful Algal Blooms***  
The Report of a NATO Advanced Study Institute held at the Bermuda Biological Station in 1996 was published in May 1998. This was the final activity of WG 97. A final report was submitted to SCOR in 1996. The General Meeting should formally disband WG 97.
- 2.2.5 *WG 98 Worldwide Large-scale Fluctuations of Sardine and Anchovy Populations***  
The final report of WG 98 will be presented. A paper summarizing the findings of WG 98 has been submitted for publication in the South African Journal of Marine Science. The General Meeting should consider disbanding WG 98.
- 2.2.6 *WG 99 Linked Mass and Energy Fluxes at Ridge Crests***  
Report on the final meeting, held in January 1998, and on the progress with preparation of a brochure and a publication in the Reviews of Geophysics. Is it timely to disband WG 99?
- 2.2.7 *WG 101 Influence of Sea State on the Atmospheric Drag Coefficient***  
A publication contract has been arranged with Cambridge University Press and a draft MS for the WG 101 monograph has been submitted. SCOR funds for the purchase of up to 100 copies at a discount should be carried forward to 1999. The General Meeting should consider disbanding WG 101.
- 2.2.8 *WG 102 Comparative Salinity and Density of the Atlantic and Pacific Ocean Basins***  
Vere Shannon will report on the review and revision of this manuscript and the implementation of its recommendations.
- 2.2.9 *WG 103 The Role of Wave Breaking on Upper Ocean Dynamics***  
In accordance with the request of the last SCOR Executive Committee meeting, the Chair submitted a request for a revision of the terms of reference of WG 103. The Executive Committee also agreed that if the request were approved, then funds should be released for a meeting of WG 103 at the next available opportunity. These two items were approved in correspondence among the Executive Committee members. The annual report provides information on the future plans of the group, including the meeting which will take place in January 1999.
- 2.2.10 *WG 104 Coral Reefs Responses to Global Change: The Role of Adaptation***  
Report on the final meeting of WG 104 and the symposium on "Coral Reefs and Environmental Change: Adaptation, Acclimation or Extinction" held in Boston in January 1998. Plans for publication of Proceedings in American Zoologist, and for a review article. The reports of the Chair constitute a final report to SCOR from the WG and include its conclusions: the General Meeting should decide whether to disband the group now.
- 2.2.11 *WG 105 The Impact of World Fisheries Harvests on the Stability and Diversity of Marine Ecosystems***  
Report on second meeting in January 1998 and plans for an international ICES/SCOR symposium on "Ecosystem Effects of Fishing" in Montpellier, March 1999. The results of this symposium will be published in the ICES Journal of Marine Science. The report includes responses from the WG to the comments of the Executive Committee reporter following the 1997 SCOR meeting.
- 2.2.12 *WG 106 Relative Sea Level and Muddy Coasts of the World***  
Progress with book publication. An agreement is under negotiation with Elsevier for publication of the book resulting from the deliberations of WG 106 and a schedule for its completion has been defined. A small amount of funding may be required for a purchase of copies by SCOR at a discount price.
- 2.2.13 *WG 107 Improved Global Bathymetry***  
Report of the final meeting in November 1997 and progress with final report. No further financial support is required from SCOR. Approval is requested for some formal membership changes in order to reflect the actual contributions of participants in the WG activities.

#### **2.2.14 *WG 108 Double Diffusion***

A meeting planned for 1998 did not take place, although some members met informally during the Fedorov memorial symposium in Moscow in May. A formal meeting has now been arranged to take place in Tempe, Arizona in early 1999.

#### **2.2.15 *WG 109 Biogeochemistry of Iron in Seawater (with JUPAC)***

The WG will hold a symposium in conjunction with the General Meeting, with one joint overview session for participants in the General Meeting. A meeting of the WG will follow to work on draft book chapters. Plans for a book to be published by IUPAC. No further SCOR support is anticipated.

#### **2.2.16 *WG 110 Intercomparison and Validation of Ocean-Atmosphere flux Fields (with WCRP)***

A report from the WG Co-Chairs includes a report of the WG's first meeting in October 1997. With the approval of the Executive, Dr. K. Kutsuwada (Japan) was invited to join the WG. Future plans include a meeting of the WG in 1999 for which support is requested from the two sponsors.

#### **2.2.17 *WG 111 Coupling Winds, Waves and Currents in Coastal Models***

Report on final membership of the WG and appointment of a Co-Chair. Plans for first meeting, Malta, November 1998. Request for approval of a second meeting at a Gordon Research Conference on coastal ocean modelling, summer 1999.

#### **2.2.18 *WG 112 Magnitude of Submarine Groundwater Discharge and its Influence on Coastal Oceanographic Processes***

This first report from WG 112 includes information on the final membership of the group and a report of its first meeting, Taipei, July 1998. Future plans include a meeting in Birmingham (UK) in conjunction with the JARS and IUGG meetings — costs will be shared with LOICZ.

#### **2.2.19 *WG 113 Evolution of the Asian Monsoon in Marine Records: Comparison between Indian and East Asian Subsystems***

Report on final membership. Report of first meeting - Shanghai. April 1998. Future plans call for a series of 3 annual meetings — this should be discussed and approved or modified by the General Meeting. IMAGES shares in the costs of WG 113.

### **2.3 *Proposals for New Working Groups***

By the deadline in August, the following proposals for new Working Groups were received by the SCOR Secretariat and circulated to national committees for comments.

#### **2.3.1 *Mediterranean Sea Climate Study Project***

#### **2.3.2 *Standards for CPR (Continuous Plankton Recorder) Survey and Analysis***

#### **2.3.3 *Transport and Reaction in Permeable Marine Sediments***

In addition, the following proposal was received late. The authors have been informed that since there was not time to circulate it to national committees, the General Meeting could only give it preliminary consideration.

#### **2.3.4 *Terminal Millennial Synthesis of Decadal-to millennial-scale Climate Records of the Last 80ky.***

Finally, a proposal was discussed in 1997 for which there seems to be growing interest in the scientific community. The 1997 SCOR meeting requested revisions to the original proposal, but the UK SCOR Committee did not wish to take the issue forward. The General Meeting may wish to consider whether it wishes to initiate a more detailed proposal on the topic of:

#### **2.3.5 *Limits to Predictability***

### 3.0 LARGE-SCALE SCIENTIFIC PROGRAMS

#### 3.1 SCOR Committees

##### 3.1.1 *Joint Global Ocean Flux Study Scientific Steering Committee*

An extensive report from JGOFS will be presented. The program has formally begun its synthesis phase and is also contributing significantly to the overall IGBP synthesis. The report includes information on recent scientific highlights, the 1998 SSC meeting, the activities and plans of all JGOFS sub-groups, the current status of the International Project Office, JGOFS publications, meeting schedules and SSC membership. The SCOR Officers will consult with representatives of the IGBP and a report will be given to the General Meeting on the proposed JGOFS SSC membership changes for 1999.

##### 3.1.2 *SCOR/IGBP/IOC Committee on Global Ocean Ecosystems Dynamics*

The Chair of the GLOBEC SSC will present and supplement the written report which includes information on the GLOBEC Open Science Meeting (March 1998), the SSC meeting held at the same time, the development of the International GLOBEC Implementation Plan, the status of the long-awaited International Project Office for GLOBEC, other GLOBEC activities and membership issues. The SCOR Officers will consult with representatives of the IGBP and a report will be given to the General Meeting on the proposed GLOBEC SSC membership changes for 1999. A panel of five reviewers has been asked to comment on the final draft version of the Implementation Plan and its report and advice will be presented by the Executive Committee Reporter for GLOBEC.

#### 3.2 Scientific Programs under Development

##### 3.2.1 *Development of a SCOR/IGBP/WCRP Surface Ocean Lower Atmosphere Study*

Status report on SOLAS, the development of links to WCRP and the atmospheric sciences, and plans for an international workshop in 1999. Financial support is requested from SCOR.

##### 3.2.2 *SCOR/IOC initiative on Global Ecology and Oceanography of Harmful Algal Blooms*

A planning workshop will take place in Copenhagen just before the General Meeting with 37 participants from 21 countries. The goal is to develop goals and objectives and a detailed outline for a Science Plan for a new international program. A preliminary report will be presented. ICSU has committed funds to support the start up of this new initiative in 1999. The General Meeting should approve this new joint initiative with IOC, consider draft terms of reference for a new SSC and consider the process of establishing a new SSC.

3.2.3 *The Sloan Foundation Global Marine Census* - this private foundation has been developing plans for a Global Marine Census with workshops in the US and an international workshop in April 1998 in Southampton. Information will be provided on progress to date. A decision as to whether the Sloan Foundation will continue to develop this program will be taken in late 1998. Links to SCOR and GLOBEC are envisaged.

3.2.4 *Graduate Education in Oceanography and Environmental Marine Sciences in Developing Countries as a Means to Understand Global Environmental Problems* - the results of a Team Residency at the Rockefeller Foundation Bellagio Study Center, August 26 - September 11 1998. Future action by SCOR.

#### 3.3 Affiliated Programs

The 1998 General Meeting will be the first occasion at which these international programs will be reviewed by SCOR. The main points to consider are whether the quality of the scientific program remains excellent, and is sufficiently international in scope and membership, to justify SCOR's continuing sponsorship.

##### 3.3.1 *Acoustic Thermometry of Ocean Climate (ATOC)*

In accordance with information submitted to the 1997 SCOR meeting, the ATOC steering group has been reconstituted.

##### 3.3.2 *PAGES/SCOR International Marine Global Changes Study (IMAGES)*

The IMAGES report notes the absence of formal links to SCOR at the national level, and seeks assistance from the General Meeting in developing these contacts.

### **3.3.3 *InterRidge - International, Interdisciplinary Ridge Studies***

A written report has been submitted for the General Meeting.

### **3.3.4 *International Antarctic Zone (iAnZone)***

A written report has been submitted for the General Meeting. SCOR is requested to provide guidance on membership rotation and nominations for new members.

### **3.3.5 *International Ocean Colour Coordinating Group (IOCCG)***

The 1997 SCOR Executive Committee meeting agreed that IOCCG should be given Affiliate status when a formal request was received by SCOR. This was received following the IOCCG meeting in January 1998. The IOCCG report outlines scientific accomplishments, major program milestones and the establishment of an IOCCG report series.

## **4.0 ORGANIZATION AND FINANCE**

### **4.1 Membership**

The Membership Officer and the Executive Director will report on changes in SCOR membership since September 1997. Other membership issues.

### **4.2 Publications Arising from SCOR Activities**

The Executive Director will present a report on publications arising from SCOR activities since the 33rd Executive Committee meeting. Any other publications issues.

### **4.3 Finance**

The ad hoc Finance Committee and the Executive Director will review the state of SCOR finances for the past and current fiscal years. The ad hoc Finance Committee will report to the General Meeting on this review and will present a budget for 1999 activities and recommendations regarding the levels of membership contributions to SCOR for 2000.

### **4.4 Report of the Nominations Committee**

National Committees and all voting members of SCOR were informed of the slate proposed by the Nominations Committee by letter on August 11 1998. If no election is requested by October 16, in accordance with the proposed procedures distributed to all National Committees, this slate of officers will be elected by acclamation.

### **4.5 Election Procedures**

The approval of the General Meeting will be sought for proposed election procedures which were sent to all National Committees in April 1998.

### **4.6 Other Organizational Issues**

## **5.0 RELATIONS WITH INTERGOVERNMENTAL ORGANIZATIONS**

Matters of interest to SCOR in the reports received from the following organizations will be brought to the attention of the General Meeting. If a representative of the organization is present, a verbal presentation will be welcomed.

### **5.1 Intergovernmental Oceanographic Commission**

SCOR's role in the IOC Assessment of Ocean Science for Sustainable Development. Other IOC issues.

### **5.2 World Meteorological Organization**

### **5.3 International Council for the Exploration of the Sea**

A request from ICES seeks SCOR sponsorship and support for a special symposium entitled "100 Years of Science under ICES" to be held in Finland in August 2000.

#### **5.4 North Pacific Marine Science Organization (PICES)**

SCOR sponsorship support is requested for a PICES conference, "El Nino and Beyond" to be held in February 2000.

#### **5.5 Other Intergovernmental Organizations**

### **6.0 RELATIONS WITH NON-GOVERNMENTAL ORGANIZATIONS**

Matters of interest to SCOR in the reports received from the following organizations will be brought to the attention of the General Meeting. If a representative of the organization is present, a verbal presentation will be welcomed

#### **6.1 International Council of Scientific Unions**

ICSU and UNESCO are convening a "World Conference on Science" in Budapest in 1999. The General Meeting is invited to consider the role of SCOR in providing input to ICSU from the ocean science community. A report from the ICSU representative on the GOOS Scientific Committee (selected in consultation with SCOR) on the first meeting of the re-structured GOOS Committee.

#### **6.2 ICSU Unions, Committees and Programs**

##### **6.2.1 *International Geosphere-Biosphere Program (IGBP)***

##### **6.2.2 *World Climate Research Program***

##### **6.2.3 *Scientific Committee on Problems of the Environment (SCOPE)***

SCOR and SCOPE are collaborating in the provision of scientific expertise for the IOC's Assessment of the State of Ocean Science in Relation to Sustainable Development.

##### **6.2.4 *Scientific Committee on Antarctic Research (SCAR)***

The Chairman of SCAR's Group of Specialists on Global Change (GLOCHANT) will present information on its activities, many of which have close ties to SCOR. It has been formally agreed that SCAR should be a co-sponsor of the Southern Ocean components of the JGOFS and GLOBEC programs.

##### **6.2.5 *Committee on Space Research (COSPAR)***

##### **6.2.6 *International Union of Pure and Applied Chemistry (IUPAC)***

SCOR and IUPAC are co-sponsors of WG 109 on Iron Chemistry. Advice has also been sought on an IUPAC project on the solubility of oceanic salts.

##### **6.2.7 *Union Radio Scientifique Internationale (URSI)***

##### **6.2.8 *Others***

#### **6.3 Affiliated Organizations**

The Presidents of the Affiliated Organizations are *ex-officio* members of the SCOR Executive Committee. They will present brief verbal reports of the activities of:

##### **6.3.1 *International Association for Biological Oceanography***

##### **6.3.2 *International Association for Meteorology and Atmospheric Sciences***

##### **6.3.3 *International Association for the Physical Sciences of the Ocean***

#### **6.4 Corresponding Organizations**

##### **6.4.1 *Arctic Ocean Sciences Board***

##### **6.4.2 *Engineering Committee on Oceanic Resources***

##### **6.4.3 *Confederation Mondiale des Activités Subaquatiques (Scientific Committee)***

**6.5 Other Organizations**  
*The Oceanography Society*

**7.0 FUTURE MEETINGS**

**7.1 Future meetings of SCOR**

The **Thirty-fourth Executive Committee Meeting of SCOR**: will take place in Goa, India from October 25-29 1999.

The SCOR General Meeting should take place in 2000, between September and early November. An invitation has been received from the Russian Academy of Sciences to hold this meeting in Moscow.

A possible venue for the Executive Committee meeting in 2001 would be the joint IABO/IAPSO scientific meeting to be held in Argentina in October of that year. More information will be available at the General Meeting.

**7.2 Other meetings of interest to SCOR**

The Executive Director will present a list of international meetings of interest to SCOR during the next two years. In some cases the meeting will be asked to decide on requests for SCOR co-sponsorship and/or support of these events.

In 1998 SCOR co-sponsored the International Congress on the History of Oceanography, but no request was received for SCOR support for participants from developing countries. The organizers have now asked for a contribution to support the publication costs.

**8.0 OTHER BUSINESS**

**8.1** Should SCOR provide international input to the current discussion of the future of the Ocean Drilling Program? Would it be appropriate to assist some scientists from developing countries to attend the international conference in 1999?

**CLOSURE OF MEETING**