

5.0 CAPACITY-BUILDING ACTIVITIES

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5.0 CAPACITY-BUILDING ACTIVITIES

5.1 SCOR Committee on Capacity Building

SCOR conducts a variety of activities on capacity building, but they are not officially connected or coordinated. The SCOR Executive Committee will present draft terms of reference and membership for a SCOR Committee on Capacity Building, whose primary purpose will be to oversee all of SCOR's capacity-building activities and to help the SCOR Secretariat manage these activities.

5.2 Regional Graduate Schools of Oceanography and Marine Environmental Sciences (RGSO)

SCOR has made attempts to obtain funding to pursue all four regions—Southeast Asia, South Asia, Latin American, and Sub-Saharan Africa—in parallel, but no funding has been obtained. Therefore, SCOR is now considering working region by region, starting with southeast Asia. The proposed 2007 budget includes funding for a meeting in this region. SCOR will work with representatives from other regional organizations, such as IOC/WESTPAC, START, the regional ICSU office, local Large Marine Ecosystem groups, and other relevant groups. Representatives from developed nations will also be invited to the meeting, to begin to explore funding opportunities for continuing activities. SCOR has also been asked to work with Canadian investigators to plan a meeting in Sri Lanka.

5.3 POGO-SCOR Visiting Fellowships for Oceanographic Observations

This fellowship program continues to attract enough applications to allow selections to be made for the most qualified applicants. In the sixth round of applications, 42 applications were received and 9 individuals were funded for fellowships in 2006. IOC is no longer funding the activity. SCOR provided \$10,500 of the total estimated cost of \$45,500.

Fellowship Applicant	Parent Supervisor/ Organisation	Host Supervisor/ Organisation	Field of Interest
Uday Bhaskar	Dr. M. Ravichandran Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, INDIA	Dr. Loic Petit de la Villeon IFREMER TMSI/IDM/SISMER Brest, France	Real time quality control of Argo profile data and generation of value added products for the Indian Ocean region (RDAC)
Badru Nordine Hagy	Rui De Paula e Silva Fisheries Research Institute Maputo, Moçambique	Gert J. De Lange Universiteit Utrecht The Netherlands	Data Series analysis and primary processing of data received from mooring systems CTDs and ADCP
Liisa Metsamaa	Dr. Tiit Kutser University of Tartu Tallinn, Estonia	Dr. Arnold Dekker CSIRO Canberra, Australia	Developing regional phytoplankton products for MERIS and mapping harmful cyanobacterial blooms

Chaolin Li	Dr. Sun Song Chinese Academy of Sciences, Qingdao China	Dr. Ann Bucklin University of Connecticut, USA	Molecular approaches in the study of zooplankton diversity
Oleksandra Sergeyevea	Dr Yuriy Tokarev National Academy of Sciences of Ukraine	Dr Lesley Rickards British Oceanographic Data Centre Liverpool, UK	Marine data management with the special attention to marine biology and chemistry
Zongjun Xu	Dr. Mingyuan Zhu State Oceanic Administration, Qingdao, China	Kenneth Sherman Northeast Fisheries Science Center Narragansett, RI, USA	Large-scale, Operational Biological Observations including Biodiversity
Mangesh Gauns	Dr. S.W.A. Naqvi National Institute of Oceanography (NIO) Dona Paula, Goa, India	Dr. Michael Sieracki Bigelow Laboratory for Ocean Sciences, USA	Microzooplankton grazing and flow cytometry analysis of marine picoplankton
Ivanice Monteiro	Marcia Valadares Costa National Institute for Fisheries Development Cape Verde	Prof.Dr.Douglas W.R. Wallace IFM-GEOMAR Kiel, Germany	Basic Techniques for Time-Series Observations off Cape Verde
Yuli Naulita	Dr. Mulia Purba, Bogor Agricultural University, Indonesia	Prof. Masaji Matsuyama Tokyo University of Marine Science and Technology, Japan	Fixed point time-series observation of internal waves in Uchiura Bay, Japan

5.4 NSF Travel Support for Developing Country Scientists

SCOR has received support from the U.S. National Science Foundation (NSF) since 1984 to provide funding for an important SCOR activity in the area of capacity building. Travel grants are awarded to ocean scientists from developing countries to enable them to attend international scientific meetings. More recently, travel assistance also has been given to scientists from the former Soviet Union, Eastern Europe, and other countries with economies in transition

The amount of the award from NSF is now \$75,000 per year. Of this, a small amount (\$5,000 per year) is used to offset SCOR Secretariat expenses for contacting meeting organizers and recipients of travel funds, and for making travel arrangements. Recipients of SCOR travel awards are always chosen in consultation with the organizers of meetings that SCOR has agreed to cosponsor; direct applications from individuals are not accepted by the SCOR Secretariat. Priority is given to applicants who are presenting a paper or poster at the meeting or to those who have some special expertise or regional knowledge to bring to a workshop or working group. Preference is also given to younger scientists. In general, care is taken to ensure that the recipients of SCOR/NSF funds are *active* scientists, and that they have not received similar support from SCOR in the previous two years. All travel grant recipients are informed that their support comes from SCOR and that it is made possible through NSF funding.

Since 2001, a portion of total funding has been provided for longer-term courses or fellowships, such as the POGO-IOC-SCOR Visiting Fellowships for Oceanographic Observations.

The most recent three-year grant began on 1 July 2005, running until 30 June 2008. During the first year of the new grant, 73 individual scientists from 28 countries received full or partial travel support that enabled them to attend 16 different scientific meetings or training programs during this period. About 33% of the scientists were not from SCOR member nations.

At the 2005 SCOR Meeting, \$5000 was committed for Atlantic Ocean Biogeochemistry and Biodiversity workshop on the Atlantic Meridional Transect (AMT), to be held at the Royal Society (UK) on 20 July 2006. SCOR funding was conditional on the workshop organizers providing a workshop after the meeting in Plymouth, UK, on how to access and use AMT data. AMT staff developed the following workshop for developing country scientists funded by SCOR.

**AMT Data Workshop
21-22 July 2006
Plymouth Marine Laboratory**

Friday 21 July

- | | | |
|-------|--|--|
| 09:30 | Welcome and introduction to AMT | Carol Robinson
<i>PML conference room</i> |
| 10:00 | BODC and access to AMT data | Claudia Castellani
<i>PML conference room</i> |
| 11:00 | <i>Coffee</i> | |
| 11:30 | AMT data exercise | Claudia Castellani
<i>PML terminal room</i> |
| 13:00 | <i>Lunch</i> | |
| 14:30 | Sampling trip on University boat/QUEST | Sam Lavender,
Gavin Tilstone |

Saturday 22 July

- | | | |
|-------|---------------------------------|---|
| 09:00 | Remote sensing lecture | Sam Lavender,
Tim Smythe
<i>PML conference room</i> |
| 10:00 | Tour of optics laboratory | Gerald Moore, James
Fishwick or Tim Smythe
<i>Optics laboratory</i> |
| 11:00 | <i>Coffee</i> | |
| 11:30 | Remote sensing exercise | Tim Smythe
<i>PML terminal room</i> |
| 13:00 | <i>Lunch</i> | |

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The SCOR Executive Committee approved two requests for travel support since the 2005 SCOR Meeting:

1. 4th International Symposium on Biological & Environmental Chemistry of DMS(P) and Related Compounds (Norwich, UK on 2-6 May 2006) - \$3000
2. Workshop on Sustained Indian Ocean Biogeochemical and Ecological Research (SIBER) (Goa, India on 3-6 October 2006) - \$7500

The Executive Committee also approved an increase in the amount of funds, to \$10,500, allotted in 2006 for the POGO-SCOR Visiting Fellowships for Oceanographic Observations, to partially compensate for the withdrawal of IOC funding for this activity.

2006-2007 Requests for Travel Grants

Jan-June 2007	Dates	Suggested	
#1- PACKMEDS	Jan-07	\$8000	
#2- SOLAS OSM	6-9 March 2007	\$8000	
#3 – Asian GEOHAB Workshop	March 2007	\$5000	
#4 - GLOBEC-PICES-ICES 4 th International Zooplankton Production Symposium	28 May - 1 June 2007	\$6000	
#5- AMT Cruise		\$7500	approved 9/2005
	Total	\$34500	
July-Dec 2007			
#6- IMBER/LOICZ Open Science Meeting on Continental Margins	Sep-07 22 Oct. -3 Nov. 2007	\$10000	
#7- SOLAS Summer School	2007	\$5000	
#8- PICES XVI	26 Oct. - 4 Nov. 5-9 November 2007	\$5000	
#9- International Marine Acoustic Telemetry 2006	2007	\$5000	
#10- 1 st GLOBEC-CLIOTOP symposium "Climate Impacts on Oceanic Top Predators"	3-7 December 2007	\$5000	
	Total	\$30000	
Jan.-June 2008			
#11- ICES/PICES/IOC Symposium on the Effects of Climate Change in the World's Oceans	19-23 May 2008	\$7500	
	Total	\$7500	

If these requests are approved, SCOR would have spent or committed \$170,000 of its \$225,00 grant from NSF, leaving \$55,000 to commit between Oct. 2006 and June 2008. Some of the requests listed above are for meetings in which SCOR is directly involved in planning, so there is no formal written request. SCOR can spend roughly \$37,500 each six months.

Request #1

SCOR has offered to provide travel support for developing country scientists as one of its contributions to the PACKMEDS project, led by SCOPE and co-sponsored by IAPSO (see **Section 7** for details about PACKMEDS).

Request #2

Dr Ed Urban
Executive Officer
Scientific Committee on Oceanic Research
Department of Earth and Planetary Sciences
The Johns Hopkins University
Baltimore MD 21218
USA



31 July 2006

Dear Ed,

The Surface Ocean Lower Atmosphere Study (SOLAS) will be holding its next Open Science Meeting (OSM) in Xiamen China from 6-9 March 2007. We are pleased to conduct our conference in China, as their strongly developing economy will provide potential scientific strengths yet dramatic challenges in the coming years.

This OSM will have a format similar to that of the previous SOLAS conference in Halifax Canada, with oral presentations from leaders in the science of SOLAS, sustained poster presentations by the majority of conference attendees with ample time for networking, and late afternoon discussion fora on topics of future import to the project.

SOLAS feels strongly that this conference program is most constructive for moving the science forward and for the development of the next generation of SOLAS researchers.

With this in mind, SOLAS kindly requests support from SCOR to cover the travel costs for scientists and students from nations with economies in transition. We expect that a contribution of \$8000 will partially or fully support the participation of up to 4-8 scientists and students.

I thank SCOR for their continued support of SOLAS and for your consideration in this matter.

Warm regards,

A handwritten signature in black ink, appearing to be "Jeffrey Hare".

Jeffrey Hare
Executive Officer, SOLAS
International Project Office

The Surface Ocean – Lower Atmosphere Study (SOLAS)
School of Environmental Sciences, University of East Anglia, Norwich, NR4 7TJ,
United Kingdom

Request #3

The GEOHAB Scientific Steering Committee will be meeting at the University of Tokyo during the week of 12-16 March 2007. GEOHAB will take that opportunity to convene a meeting of Asian scientists to acquaint them with GEOHAB Core Research Projects and to encourage Asian scientists to participate in GEOHAB. GEOHAB requests \$5,000 to enable 2-4 scientists to attend the Asian GEOHAB workshop from China, Korea, and developing countries of Southeast Asia.

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Request #4



Dr Ed Urban
Executive Director
SCOR
The John Hopkins University
USA

GLOBEC International Project Office
Plymouth Marine Laboratory
Prospect Place
Plymouth PL1 3DH
United Kingdom
Telephone (01752) 633 401
Fax (01752) 633101/ 160
globec@pml.ac.uk
www.globec.org

25 June 2004

Dear Ed:

As you know GLOBEC is teaming with PICES and ICES in co-sponsoring and organising the **4th International Zooplankton Production Symposium: Human forcing of zooplankton populations**, to be held in Hiroshima, Japan, May 28 – June 1, 2007.

This symposium follows on the successful 3rd IZPS, held in Gijon, Spain, May 2003, with identical set of sponsors.

GLOBEC and PICES would like to request a contribution from SCOR to cover the expenses of 3-5 scientists from developing countries to attend this important symposium. The amount would range between \$6,000 (3 scientists supported) and \$10,000 (5 scientists supported). SCOR would be adequately acknowledged in the book of abstracts and Proceedings.

We would be grateful if you could bring this request to the attention of the SCOR General Assembly at their meeting in Concepcion in October 2006.

Thanks you in advance for your consideration. Regards,

A handwritten signature in black ink, appearing to read "Manuel Barange".

Manuel Barange
Director GLOBEC International Project Office
and
Alex Bychkov, Executive Secretary PICES

Request #5

On Board Training for Developing Country Participants on AMT Cruises: A Proposal

Background

At the POGO-2 meeting, the participants endorsed the São Paulo Declaration, which called for enhanced observations in the Southern Hemisphere. In response to the call, and as part of their 30th Anniversary celebrations, JAMSTEC organised the circum-polar cruise in the Southern Hemisphere, named the Blue EArth GLObal Expedition (BEAGLE). A hallmark of the expedition was the manner in which many oceanographic institutions of the Southern Hemisphere were invited to participate as partners in this major initiative. Another hallmark was the opportunity that JAMSTEC provided for training up to 3 oceanographers from developing countries on each leg of the expedition. POGO, IOCCG and IOC organised the training programme on the BEAGLE expedition, with guidance and much help from JAMSTEC scientists. This allowed for training 18 oceanographers on the BEAGLE expedition. Another remarkable aspect of the BEAGLE Expedition is that it allowed for the inclusion of bio-optical observations; the bio-optical programme was executed by a team of scientists from POGO member institutions and Southern Hemisphere partners.

Following this undoubted success, we now seek to develop another on-board training programme on the Atlantic Meridional Transect (AMT), building on the BEAGLE experience and inspiration. The Atlantic Meridional Transect (AMT) programme (Aiken and Bale, 2000; Aiken et al., 2000; www.amt-uk.org) began in 1995, utilising the passage of the *RRS James Clark Ross* through the Atlantic Ocean, between the UK and the Falkland Islands (50°N to 52°S, a distance of over 13,500 km) southwards in September and northwards in April each year. The transect crosses a range of ecosystems from sub-polar to tropical and from eutrophic shelf seas and upwelling systems to oligotrophic mid-ocean gyres. The scientific aims included an assessment of mesoscale to basin-scale phytoplankton processes, the functional interpretation of bio-optical signatures and the seasonal, regional and latitudinal variations in mesozooplankton dynamics. The programme provided a platform for international scientific collaboration, including the calibration and validation of SeaWiFS measurements and products. The measurements of hydrographic and bio-optical properties, plankton community structure and primary production completed on the first 12 transects (1995-2000) represent the most coherent set of repeated biogeochemical observations over ocean-basin scales. This unique dataset has led to several important discoveries concerning the identification of oceanic provinces (Hooker et al., 2000) validation of ocean colour algorithms (Hooker and McClain, 2000), distributions of picoplankton (Zubkov et al., 2000), identifying new regional sinks of pCO₂ (Lefevre et al., 1998), and variability in rates of primary production (Maranon et al., 2000) and respiration (Serret et al., 2001).

In 2001, the programme restarted (2003-2005; Table 1) and broadened, to address a suite of cross-disciplinary questions concerning ocean plankton ecology and biogeochemistry and their links to atmospheric processes. The objectives included the determination of how 1) the

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structure, functional properties and trophic status of the major planktonic ecosystems vary in space and time; 2) physical processes control the rates of nutrient supply, including dissolved organic matter, to the planktonic ecosystem; and 3) atmosphere-ocean exchange and photodegradation influence the formation and fate of organic matter, and were to be addressed by more than 45 scientists from 6 UK research institutes participated in these cruises.

Between 1995 and 2005, the programme has included 17 research cruises, involving ~180 scientists from 11 countries, contributing to 110 refereed publications and 68 PhD. Theses. This unique spatially extensive decadal dataset continues to be deposited and made available to the wider community through the British Oceanographic Data Centre (www.bodc.ac.uk).

The next phase of the AMT programme (8 cruises between 2007-2012) is under planning, and mechanisms are being explored to maintain the programme as a long-term multi-disciplinary ocean observation programme, a platform for national and international scientific collaboration, a training arena for the next generation of oceanographers and an ideal facility for validation of novel technology.

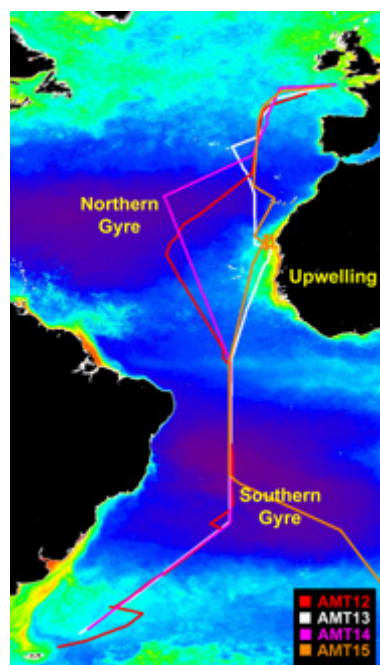


Fig. 1: Cruise tracks of AMT 12, 13, 14 & 15.

Proposal:

We now seek to provide opportunity for up to 2 trainees from developing countries to participate each year in the future AMT cruises. The participants will be selected on the basis of applications submitted. The selected candidates will have the opportunity to visit Plymouth Marine Laboratory for one month prior to the start of the cruise to learn about cruise preparation and planning; to go on the cruise (35 days) and participate in making hydrological, bio-optical and ecological observations; and on completion of the cruise, to spend two additional months at

PML, learning to analyse the results statistically and interpret them. Subject to future funding, core measurements are planned to include phytoplankton, zooplankton and bacterioplankton diversity, pCO₂, O₂/Argon/dimethyl sulphide, fast repetition rate fluorometry, optics, coloured dissolved organic matter (CDOM), pigments and micromolar nutrients, with additional process-oriented measurements on 3 cruises to include ¹⁴C primary production, excretion, respiration, gross production, ¹⁵N new production, bacterial production, dissolved organic carbon, nanomolar suite of nutrients, CDOM bleaching and molecular diversity.

Selection of Candidates

POGO and SCOR will announce the opportunity widely, and invite applications from interested candidates. The applicants will be asked to design a small, realistic experiment for the AMT cruise that builds on the on-going observation programme. The experiment should be designed in consultation with the AMT project scientists, and one or more of the project scientists must be named as supervisor for the experiment. The supervisor would have to approve the experiment before it is submitted. The value of the AMT experience for on-going activities at the home institution of the applicant must be explained in the application. The selection will be based on the qualifications of the candidate; the quality of the experiment designed; links to on-going activities at the home institute of the applicant; access to facilities in the home institution that would allow the trainee to utilise and share his/her sea-going experience; potential for building long-term ties between the project supervisor, the applicant and his/her home institute; and the long-term benefits from the training for the home institute. The successful candidate will be selected by a committee with members from the AMT programme, POGO and SCOR.

Budget

It is anticipated that the cost to the programme will be US\$7,000 per trainee. This is based on \$2000 for travel, \$3,900 subsistence allowance at Plymouth (3 months @ \$1,300 per month), and an additional \$1,100 for incidentals related to cruise participation and software related to a proprietary multivariate statistics course (www.pml.ac.uk/primer/).

Partner

SCOR is interested in working with POGO on this project and we propose that SCOR and POGO commit \$7,000 each to the project each year. This would make it possible to train 2 oceanographers every year under this programme.

Request #6



Integrated Marine Biogeochemistry and
Ecosystem Research

www.imber.info

Dr Edward Urban
Executive Officer
Scientific Committee on Oceanic Research (SCOR)
Department of Earth and Planetary Sciences
The Johns Hopkins University
Baltimore, MD 21218, USA

OBJECT: SCOR Travel funds for developing country scientists

Dear Ed,

As you know, IMBER and LOICZ have jointly appointed a Continental Margins Task Team consisting of 10 members. The task team is co-chaired by Nancy Rabalais (USA) and Jack Middelburg (The Netherlands). The main charge of this task team is to organize a small Open Science Conference in Shanghai (China) between September 10-22nd, 2007. The purpose of the meeting is to develop a strategy for the implementation of continental margins research for IMBER and LOICZ and to identify a group of people to take the implementation plan forward.

The task team is also in charge of raising funding to support this conference. In this regard, I would like to apply for support from SCOR for travel funds for scientists from developing countries and countries with economies in transition. We apply for 10k USD to support travel of scientists from developing countries to this Open Science Conference to facilitate their contribution to the implementation of continental margins research in IMBER and LOICZ.

Please feel free to contact me if you need any further details about the Open Science Conference.

Regards,
Sylvie

Dr Sylvie Roy
Executive Officer,

Tel. : 33 2 98 48 87 06
Email : sylvie.roy@univ-brest.fr

Request #7

Dr Ed Urban
 Executive Officer
 Scientific Committee on Oceanic Research
 Department of Earth and Planetary Sciences
 The Johns Hopkins University
 Baltimore MD 21218
 USA



31 July 2006

Dear Ed

The Surface Ocean Lower Atmosphere Study (SOLAS) will be holding its next third International Summer School in Cargese Corsica from 22 October-3 November 2007. The SOLAS Summer School is a smashing success, but it depends upon the generosity of international sponsors and national funding agencies.

In previous Summer Schools, we are proud to have hosted participants from over 30 different nations of the world, and SOLAS would like to increase the participation and exposure of our science to more students from nations with economies in transition.

SOLAS is particularly proud of the Summer School, as the future generations of researchers will be the ones to truly make the required progress in response to significant environmental and societal challenges.

With this in mind, SOLAS kindly requests support from SCOR for the International Summer School to cover the travel costs for students from nations with economies in transition. We expect that a contribution of \$5000 will partially or fully support the participation of up to 5-8 students.

I thank SCOR for their continued support of SOLAS and for your consideration in this matter.

Warm regards,

A handwritten signature in black ink, appearing to read "Jeffrey Hare", written over a horizontal line.

Jeffrey Hare
 Executive Officer, SOLAS
 International Project Office

The Surface Ocean - Lower Atmosphere Study (SOLAS)
 School of Environmental Sciences, University of East Anglia, Norwich, NR4 7TJ,
 United Kingdom

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Request #8

From PICES 2006 Report to SCOR: "PICES requests support for scientists from countries with "economies in transition" from the Pacific Rim to attend sessions/workshops of interest to SCOR at PICES XVI to be held October 26 - November 4, 2007, in Victoria, Canada. The overall theme for PICES XVI is "*The changing North Pacific: Previous patterns, future projections, and ecosystem impacts*" The scientific program for PICES XVI will be finalized at the upcoming PICES Annual Meeting in October 2006."

Request #9

Date: Thu, 25 May 2006 19:09:39 +1200
From: "Dr Mark J. Costello" <m.costello@auckland.ac.nz>
Subject: RE: IMAT workshop
To: 'Ed Urban' <scor@jhu.edu>

Dear Ed

We are progressing the International Marine Acoustic Telemetry workshop. The organising committee is formed and discussing the content by email.

I attach a first announcement. Can we add the SCOR logo to indicate it is co-sponsored by the SCOR (CoML) Technology group?

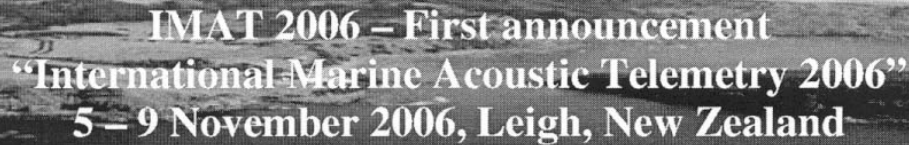
Might SCOR support the travel of participants from certain countries or in other ways? My impression is that this technology is not widely used in Developing Countries but it is in South Africa and there may be interest from China or other Asian countries.

Best wishes

Mark

cc. Dan Egli, Co-convenor.

[Note: See meeting announcement below. The SCOR Panel on New Technologies for Observing Marine Life will be sending some of its members and others to the meeting from its funds.]



IMAT 2006 – First announcement
“International Marine Acoustic Telemetry 2006”
5 – 9 November 2006, Leigh, New Zealand

We would like to take this opportunity to invite you to participate in the International Marine Acoustic Telemetry (IMAT 2006) workshop, which will be hosted by the University of Auckland, Leigh Marine Laboratory in Leigh, New Zealand Nov 2006.

The workshop will run for 4 days and can include:

- Presentations introducing selected topics
- discussions and reports of acoustic telemetry (passive/active) applications,
- new technology and developments,
- data management, analysis, and visualisation
- linking individual movement to population levels and management applications
- field and practical demonstrations

We encourage you to take the opportunity to present research papers or posters on acoustic telemetry during the presentation sessions scheduled for the first two days. Time will also be set aside to discuss research networks and their applications. Please feel free to contact us if you require further information.

Space is limited and attendance limited to 50 persons. Commercial accommodation is available in the nearby village (5 min drive) and student accommodation on-site.

Sincerely,

Daniel Egli & Mark Costello

Further information:

Acoustic Telemetry Workshop
 Leigh Marine Laboratory
 PO Box 349
 Warkworth
 New Zealand

Conference website:
<http://www.marine.auckland.ac.nz/>
 Phone: +64 9 422 6111
 Fax: +64 9 422 6113
 email: imat@auckland.ac.nz

Supported by:



new zealand marine sciences society

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Request #10



Dr Ed Urban
Executive Director
SCOR
The John Hopkins University
USA

GLOBEC International Project Office
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Prospect Place
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United Kingdom
Telephone (01752) 633 401
Fax (01752) 633101/ 160
globec@pml.ac.uk
www.globec.org

25 June 2004

Dear Ed:

GLOBEC is sponsoring and organising the 1st CLIOTOP Symposium, "**Climate Impacts on Oceanic Top Predators**" in La Paz, Mexico, 3-7 December 2007.

This symposium is part of the implementation strategy of CLIOTOP, which as you know is one of GLOBEC's regional programmes. CLIOTOP is aimed at identifying, characterising and modelling the key processes involved in the dynamics of oceanic pelagic ecosystems.

This symposium follows on the series of synthesis GLOBEC regional symposia that started in 2004 with the ICES/GLOBEC Symposium on "**The Influence of Climate Change on North Atlantic Fish Stocks**" (Bergen, May 2004, no SCOR support requested), continued with the successful GLOBEC Symposium on "**Climate Variability and Sub-Arctic Marine Ecosystems**" (Victoria, Canada, May 2005, SCOR-supported), and the PICES/GLOBEC Symposium on "**Climate variability and ecosystem impacts on the North Pacific: A basinscale synthesis**" (Honolulu, USA, April 2006, SCOR-supported). Regional symposia have been identified by GLOBEC as one of its main strategies for integration and synthesis.

GLOBEC would like to request a contribution from SCOR to cover the expenses of 3-5 scientists from developing countries to attend this important symposium. The amount would range between \$6,000 (3 scientists supported) and \$10,000 (5 scientists supported). SCOR would be adequately acknowledged in the book of abstracts and Proceedings.

We would be grateful if you could bring this request to the attention of the SCOR General Assembly at their meeting in Concepcion in October 2006.

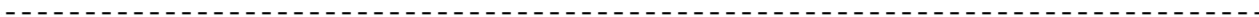
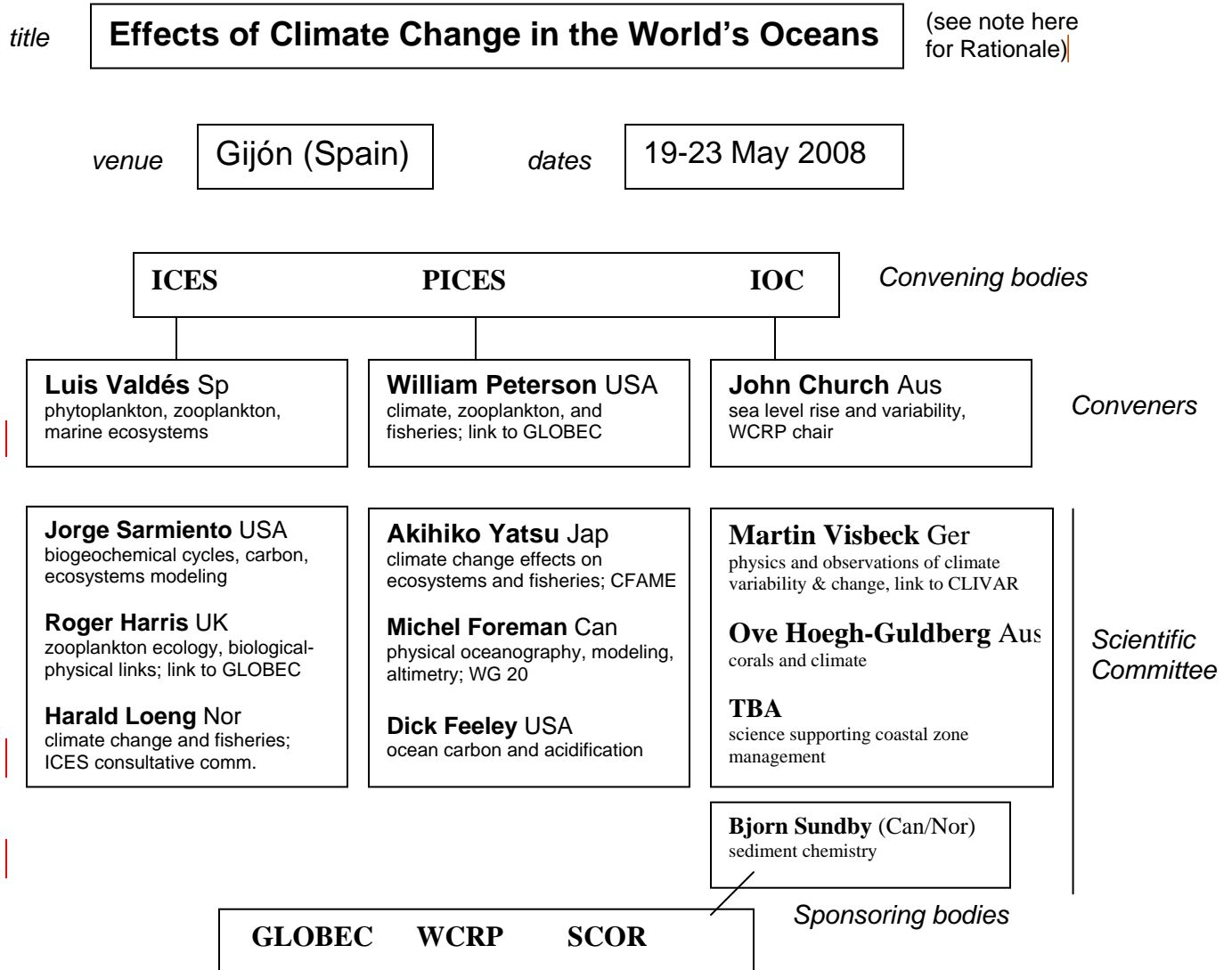
Thanks you in advance for your consideration. Regards,



Manuel Barange
Director GLOBEC International Project Office

Request #11

SCOR has offered to provide travel support for developing country scientists as one of its contributions to the ICES/PICES/IOC symposium on the Effects of Climate Change in the Worlds' Oceans.



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Compromises:

ICES: ICES is asked to cover the publication of a special issue of the ICES Journal of Marine Science. Usually ICES covers the cost of edition of the book of abstracts.

PICES: Web site, inscription on-line, print of announcements and posters. Financial support for students and scientist from the North Pacific countries (?).

IOC: to be defined in the 2008-2009 biennium budget.

GLOBEC: Financial support for students and scientist from developing countries (?)

WCRP: (IOC notes that WCRP is its programme for coordination of climate research, with WMO and ICSU)

SCOR: Financial support for invited speakers (?) – **Urban clarified that this SCOR support would only be for developing country scientists and scientists from countries with economies in transition.**

Scientific considerations

Theme Sessions (10-12)

Examples of topics (to be decided and publicized in the first announcement, although some changes could be introduced at the final announcement):

Sea level rise and coastal erosion

Ocean acidification

Ocean and coastal circulation patterns

Natural hazards

Carbon sources and sinks (CO₂ and methane)

Fisheries and ecosystem impacts (to be split in two or more)

Regional overview and hot spots: Arctic/Antarctic, Small Islands, Coral Reef

Ecosystems

Workshops (2-3)

It is not necessary yet to define neither the number nor the topics. Although some ideas could be included in the final announcement the ultimate decision may be postponed until a few months before the symposium.

Poster Session

Posters will be displayed during the 5 days of the whole symposium. A Special Poster Session with refreshments will be programmed in the afternoon of the second day.

Chairs for theme sessions. Selection of abstracts

To be nominated and selected by the Scientific Committee by the end of 2006. Chairs will assist the Scientific Com. in the organization of the sessions and in the review of abstracts. Chairs should provide a brief rationale for their sessions.

Invited speakers

To be identified and selected by the Scientific Committee not later than 10 months before the symposium

Book of Abstracts

To be prepared and edited by the local organizing committee at the IEO-CO Gijón

Publication of best contributions

Authors will be encouraged to submit papers for a special 400-450 pages volume, which will be published 14-18 months after the Symposium.

Options:

ICES Journal of Marine Science: only 3 symposium are published each year without cost for a standard volume of 250 pages, and the publication should be scheduled within 14-18 month after the symposium. This means that the year of publication for the 2008 CCS should be 2009, but the ICES JMS is fully booked for 2009. The only possibility to publish in the ICES JMS in 2009 is to cover the cost of this volume by ourselves, which implies an additional cost for the symposium of ~18.000 Euro (€), plus the value of the additional pages (30 €/page).

ICES Marine Science Symposia: This ICES series could publish a larger volume of 400-450 pages without cost, but the response from ICES should wait until October. Conditions on time for publication are the same (14-18 months...)

Deep Sea Research II: there no charge for a special issue of DSR-II

For any option we have to consider a cost of ~40 € per copy for the attendees

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Calendar for 2006

June (8th): ICES, PICES, IOC nominations for the Scientific Committee

June (21st): Report status of the 2008 CCS at the IOC Executive Council meeting.

July (15th): Proposals for theme sessions.

August (15th): Print of first announcement and call for papers

September (19th): ICES ASC. Distribution of announcements, report status of the 2008 CCS. Decision on publication of proceedings (?).

October (5th): PICES Annual Meeting. Distribution of announcements, report status of the 2008 CCS.

End of 2006: Nomination and selection of candidates to chair the Theme Sessions

Local organisation

**INSTITUTO ESPAÑOL DE OCEANOGRAFIA -
CENTRO OCEANOGRAFICO DE GIJON**

Local organisation

Luis Valdés + 2 IEO-CO Gijon staff + 3 Congress Center assistants

Organising Committee

Spanish Science Foundation
Ppdo. Asturias Science Plan 2006-2010
Local City Council of Gijón
Port Authority of Gijón
Instituto Español de Oceanografía

*Potential national and local
donors (links established)*

Dates: 19-23 May 2008

Venue: Gijón Congress Center

Expected assistance: 700 delegates

Symposium fee: early registration=400 €, regular registration= 450 €;
early registration students= 300 €, regular registration students= 350 €

This fee includes the Symposium documentation, Book of Abstracts, scientific sessions, refreshments, Symposium dinner, and a copy of a special volume of the Journal where selected papers presented during the Symposium will be published.

To avoid economic troubles and considering the large number of people expected (it is cheaper (per capita) to organise an event for 200 people than for 700), I would like to follow the ASLO system: pay in advance once that the abstract was accepted, so only those not presenting contributions can put in risk the balance of the symposium.

Briefing: 5 days symposium (Mon-Fry), welcome reception (Mon), 1 afternoon free (Wed) for relax, excursions and/or workshops, 1 symposium dinner (Thu evening), (stravaganza on Fry?).

Sessions: Opening session (with assistance of political authorities), 1 Plenary session each morning, 2 full day parallel sessions, 1 afternoon poster sessions.

Exposition: Ideas for an exposition, open to the general public, in the building beside the Congress Center will be welcome.

Awards: Best presentation, Best poster, Best young scientist

5.5 SCOR Reports to Developing Country Libraries

Four reports were sent to developing country libraries since the 2005 Executive Committee Meeting:

- Reprint of Phytoplankton *Pigments in Oceanography*
- IMBER *Science Plan and Implementation Strategy*
- GEOHAB Core Research Project on Harmful Algal Blooms in Upwelling Systems
- Special Section of *Journal of Geophysical Research—Oceans* on The Ocean in a High-CO₂ World

Several reports should be available to send to developing country libraries before the 2007 SCOR Executive Committee Meeting, from WGs 111 (Coupling Waves, Currents, and Winds in Coastal Models), 115 (Standards for the Survey and Analysis of Plankton), 116 (Sediment Trap and 234-Th Methods for Carbon Export Flux Determination, 120 (Marine Phytoplankton and

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Global Climate Regulation: The *Phaeocystis* spp. Cluster as a Model), and 123 (Reconstruction of Past Ocean Circulation).

Date: Wed, 12 Jul 2006 09:38:27 +1200
From: Chris Nelson <nelson_c@usp.ac.fj>
Subject: SCOR publications
To: scor@jhu.edu

Dear SCOR,

We acknowledge receipt of the latest two publications received as part of SCOR's support for developing libraries:

Research Plan for GEOHAB Core Research Project on Harmful Algal Blooms in Upwelling Systems; and
2004 SCOR Proceedings

Thank you for your assistance to the collection development of our library.

Kind regards,

Chris

=====
Chris Nelson
Librarian/Coordinator,
Pacific Islands Marine Resources Information System (PIMRIS)
Lower Campus Library
University of the South Pacific
PO Box 1168
Suva, FIJI
Tel. (679) 323 2934
Fax (679) 323 1526
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Libraries in Developing Countries That Receive SCOR Reports

Argentina	Universidad Nacional del Sur Bahía Blanca, Argentina
Bangladesh	Library SPARSO Dhaka, Bangladesh
Brazil	FURG Departamento de Oceanografia Rio Grande, Brazil Instituto Oceanográfico Universidade de São Paulo São Paulo, Brazil Dept. of Oceanography and Hydrology University of the State of Rio de Janeiro
Bulgaria	State Fisheries Inspectorate (SFI) Fisheries and Aquaculture Department Sofia, Bulgaria
Chile	Departamento de Oceanografia Universidad de Concepción Concepción, Chile Servicio Hidrografico y Oceanografico Valparaiso, Chile
China-Beijing	Library of Ocean University of Qingdao Qingdao, China Institute of Oceanology Chinese Academy of Sciences Qingdao, China Second Institute of Oceanography State Oceanic Administration Hangzhou, China
Croatia	Rudjer Boskovic Institute Zagreb, Croatia
Cote d'Ivoire	Centre de Recherches Oceanologiques (CRO) Abidjan, Côte d'Ivoire
Cuba	Centro de Investigaciones Pesqueras (CIP) Ministerio de la Industria Pesquera (MIP)

	Habana, Cuba
Egypt	National Institute of Oceanography and Fisheries Cairo, Egypt
Estonia	Estonian Marine Institute (MEI) Tallinn, Estonia
Fiji	Pacific Islands Marine Resources Information System (PIMRIS) The University of the South Pacific Suva, Fiji Islands
Ghana	Institute of Aquatic Biology Achimota, Ghana
India	National Institute of Oceanography Goa, India Physical Research Laboratory Ahmedabad, India
Indonesia	Centre for Oceanology Indonesian Institute of Sciences Jakarta, Indonesia
Kenya	Kenya Marine and Fisheries Research Institute (KMFRI) Mombasa, Kenya
Korea	Korea Ocean Research and Development Institute (KORDI) Seoul, Korea
Lithuania	Ichthyobank Vilnius, Lithuania
Malaysia	ICLARM - The World Fish Center Penang, Malaysia
Mexico	Universidad Nacional Autónoma de México (UNAM) México, D.F., México Biblioteca CICESE Ensenada, Mexico
Morocco	Institut National de Recherche Halieutique (INRH) Casablanca, Morocco
Pakistan	National Institute of Oceanography Karachi, Pakistan
Peru	Instituto del Mar del Perú (IMARPE) Callao, Peru
Poland	Institute of Oceanology Polish Academy of Sciences Sopot, Poland
Philippines	College of Science, University of the Philippines Quezon City, Philippines
Romania	Romanian Marine Research Institute

	Constanta, Romania
Russia	P.P. Shirshov Inst. of Oceanology Russian Academy of Sciences Moscow, Russia All Union Research Inst. of Fisheries and Oceanography V Moscow, Russia
South Africa	University of Cape Town Cape Town, South Africa
Thailand	Dept. of Marine Sciences Chulalongkorn University Bangkok, Thailand
Tunisia	Institut National des Sciences et Technologies de la Mer (INSTM) Salammbô, Tunisia
Turkey	Institute of Marine Sciences Middle East Technical University Icel, Turkey
Ukraine	Southern Scientific Research Institute of Marine Fisheries and Oceanography (YugNIRO) Laboratory of Pacific and Indian Oceans Fish Resources and Fishery Statistics Crimea, Ukraine Marine Hydrophysical Institute Ukrainian Academy of Sciences Sevastopol, Ukraine
Vietnam	National Institute of Oceanography Nha Trang, Vietnam

5.6 ICSU Priority Area Assessment on Capacity Building

The ICSU Priority Area Assessment on Capacity Building has been published and is available at

http://www.icsu.org/Gestion/img/ICSU_DOC_DOWNLOAD/928_DD_FILE_ICSU_PA_A_Cap_Building.pdf.

ICSU continues various capacity-building activities, focused on its new regional offices.