

5.0 Capacity-Building Activities

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

At the 2002 General Meeting, Robert Duce proposed a sub-group (John Field, Ilana Wainer, Hong Huasheng, and Manuwadi Hungspreugs) to consider the RGSO issue, working by email over the next year, with Field and Wainer to co-chair the subgroup. The purpose of the group was to determine whether SCOR should continue to pursue this idea, with or without partners.

5.2 POGO-IOC-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 third round of applications, 10 individuals were funded for fellowships in 2003 and 2004. POGO included the fellowship program in its proposal for a POGO-IOC-SCOR Initiative for Intelligent Use and Management of the Oceans, in response to a call for initiatives after the World Summit on Sustainable Development (see p. 7-74).

5.3 Requests for Travel Support for Developing Country Scientists

Since 1984, SCOR has received continuous support from the U.S. National Science Foundation (NSF) 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. During the past decade, travel assistance has also frequently 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 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.

In the past few years there has been a trend toward offering partial travel support. This enables meeting organizers to assist a larger number of individuals with the limited SCOR funding available for each meeting. We have found that if the SCOR offer of partial travel support is made far enough in advance, individuals are often able to mobilize national or institutional funds for the remainder of their travel expenses. 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.

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The most recent three-year grant began on 19 July 2002. During the first year of the present grant, 113 individual scientists from thirty-four countries received full or partial travel support that enabled them to attend 18 different scientific meetings or training programs during this period. About 71% of the scientists were from SCOR member nations, down from 82% for the previous grant. This change resulted from a greater number of travel grants being granted to individuals in countries of Latin America, Africa, and Eastern Europe that are not SCOR members.

2003-2004 Requests for Travel Grants

Name of Meeting	Dates	Amount Requested	Amount Suggested	Type of Meeting
<u>Nov. 2003-June 2004</u>				
GEOHAB Upwelling OSM	Nov. 2003		\$5,000	Conference
GEOHAB Fjords OSM	Early 2004		\$5,000	Conference
Iron Workshop for ICSU	Early 2004		\$5,000	Workshop
#1 - GLOBEC SPACC Workshop on Spawning Dynamics	Jan. 2004	\$5,000	\$5,000	Workshop
WG 119 Symposium	March 2004		\$10,000	Conference
Ocean in High-CO ₂ World	Mid-2004		\$5,000	Conference
		Total	\$35,000	
		Available	\$35,000**	
		Remaining	\$0	
<u>July – December 2004</u>				
POGO-IOC-SCOR Fellowships	Mid-2004		\$8,000	Fellowships
#2--35 th COSPAR Scientific Assembly*	July 2004		\$3,000	Conference
SOLAS Science Meeting	Oct. 2004		\$10,000	Conference
#3--CoML Marine Biodiversity	Nov. 2004		\$5,000	Workshop
#4--Coastal Ecology and Biodiversity	Dec. 2004		\$0	Workshop
#5 GLOBEC SPACC Economics Meeting	Late 2004	\$3,500	\$3,500	Workshop
		Total	\$29,500	
		Available	\$35,000	

*COSPAR was awarded \$5,000 for its previous assembly, but only used \$2,000 and gave the remaining \$3,000 back to SCOR.

**\$35,000 is available in each 6-month period, adjusted by whether more or less than this was spent in the previous period. This amount reflects the deduction for SCOR Secretariat expenses.

Many of the requests listed above are for meetings in which SCOR is directly involved in planning, so there is no formal written request. The SCOR Executive Committee will consider requests around March 2004 for the remaining funds available for July-December 2004.

Request #1

Request for funding for developing country scientists to attend the

GLOBEC – SPACC Workshop on fish spawning habitat dynamics and the daily egg production method

Convenors: L. Castro (Chile), C. Van der Lingen (South Africa), P. Freon (France), G. Claramunt (Chile), L. Cubillos (Chile).

Date and Venue: January 12-14 2004, Concepción, Chile.

Scope: This workshop will analyze and compare the biological and oceanographic information obtained using the Daily Egg Production Method (DEPM) around the world, with the objective of assessing the influence of environmental variability on spawning habitat and reproductive strategies of small pelagic fish.

The workshop will be organized around three major topics:

- I.- Early life history of small pelagic fishes and spawning habitat quality and dynamics.*
- II.- Reproductive strategies of small pelagic fishes in relation to their spawning habitats.*
- III.- New methodological approaches to the study of spawning habitats and on DEPM.*

A draft agenda is attached for further information.

Workshop participants will be requested to submit an extended abstract of their presentations to be published in the workshop report. The expected products of the workshop will be:

- A GLOBEC-SPACC Workshop Report
- A *GLOBEC Newsletter* article
- Two multi-authored scientific papers

Request

SPACC is one of the few global change international initiatives supported and driven from developing countries. This workshop is an example of such drive, as it has been called for and organized by scientists from the Benguela and Humboldt regions, and largely funded from Chilean national sources. Additional support from the French project IDYLE and others is currently under negotiation. Full participation from scientists from developing countries conducting SPACC research is essential for its success. **We request SCOR's support of \$5,000 to cover the traveling expenses of 2 scientists from Africa (one from South Africa and another from Namibia or Angola), and one scientist from Asia (China) to attend the above meeting.**

SPAWNING HABITAT QUALITY AND DYNAMICS AND THE DAILY EGG PRODUCTION METHOD

	Time	Session	Talk	Presenter
Day 1	08:00	Tea/coffee		
	09:00	1. Introduction Chair: Castro/Barange/Roy	Welcome, meeting objectives etc GLOBEC update? SPACC Theme 3: Spawning Habitats of Small Pelagic Fish	L. Castro M. Barange D. Checkley/C. Roy
	10:00	Tea/coffee		
	11:00	2. Spawning habitat y DEPM Chair: C. van der Lingen /	Presentation 1 (Argentina?) Presentation 2 (USA - California) Presentation 3 (Mexico)	M. Pajaro / G Macchi D. Checkley T. Baumgartner?
	12:00		Presentation 4 (Spain) Presentation 5 (France)	L. Motos / A Uriarte Bez?
	13:00	Lunch		
	15:00	3. Spawning habitat y DEPM Chair: D Checkley /	Presentation 6 (Peru) Presentation 7 (N Chile) Presentation 8 (S Chile)	P. Ayon / B Buitron G Claramunt / J Oliva C Oyarzun / L Cubillos
	16:00	Tea/coffee		
	17:00	4. Spawning habitat y DEPM Chair: P. Freon /	Presentation 9 (South Africa) Presentation 10 (Australia) Presentation 11 (Japan?)	C. van der Lingen / T Ward / Neira H. Nakata?
	18:00		Presentation 12 (England)	Barchers/
		Discussion Session	General discussion of day 1	

	Time	Session	Talk	Presenter
Day 2	08:00	Tea/coffee		
	09:00	5. Spatial analyses /spawning habitat and methods Chair: C. van der Lingen /	Presentation 1 (Fance / S Africa) - Hydrodynamic and IBM's Presentation 2 (USA - California) - Statistics Presentation 3 (USA - California) - CUFES	C Roy N Lo Checkley
	10:00	Tea/coffee		
	11:00	6. Spatial analyses/ Spawning habitat and methods Chair: C Roy /	Presentation 4 (France) - GAMS? Presentation 5 (N Chile) - Predation mortality	P Freon Krautz
	12:00		Presentation 6 (France) - Geostatistics Presentation 7 (?) - DEPM vs Acoustic	Petitgas - Serra?
	13:00	Lunch		
		7a Early life history and habitat dynamics Chair: L. Castro / C van der Lingen / C. Roy -		
		7b Reproductive strategies and habitat dynamics Chair: T Ward / Claramunt / Oyarzun -		
		7c New methods for spatial analyses and DEPM estimations Chair: Lo / Freon / Petitgas		

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	Time	Session	Talk	Presenter
Day 3	08:00	Tea/coffee		
	09:00	8a Early life history and habitat dynamics Chair: L. Castro / C van der Lingen / C. Roy -		
	09:00	8b Reproductive strategies and habitat dynamics Chair: T Ward / Claramunt / Oyarzun -		
	09:00	8c New methods for spatial analyses and DEPM estimations Chair: Lo / Freon / Petitgas -		
	13:00	Lunch		
	14:30	9a Early life history and habitat dynamics Chair: L. Castro / C van der Lingen / C. Roy -		
	14:30	9b Reproductive strategies and habitat dynamics Chair: T Ward / Claramunt / Oyarzun -		
	14:30	9c New methods for spatial analyses and DEPM estimations Chair: Lo / Freon / Petitgas -		
	16:00	Tea/coffee		
	17:00	General Discussion Session Meeting Closure		

Request #2

Request from COSPAR

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COSPAR Assembly Sessions, page 1

COSPAR Assembly Sessions, page 2

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COSPAR Assembly Sessions, page 3

Request #3

Date: Tue, 24 Jun 2003 16:05:19 -0700
From: Penny Dockry <pdockry@ucsd.edu>
Subject: Travel Grant Inquiry
To: scor@jhu.edu

Dear Dr. Urban,

On behalf of the Center for Marine Biodiversity and Conservation at Scripps Institution of Oceanography, I am writing to request an application and instructions for a Travel Grant. The grant would support travel costs for students and scientist from developing countries to attend and participate in our conference *Marine Biodiversity in the Future: The Known, Unknown and Unknowable*.

The conference, tentatively scheduled for November 2004 in La Jolla, California, is the third in a series organized in partnership with the Alfred P. Sloan Foundation under the auspices of its Known, Unknown, Unknowable program and the Census of marine Life (CoML). The goal is to explore the structure and limits of knowledge of marine ecosystems and the implications of these strengths and limits to knowledge for research, policy, governance and society at large.

Participants at past conferences include biological, physical and social scientist as well as members of government and non-government organizations, industry, media and educators. For more information on our first conference in the series "*Marine Biodiversity in the Present*" please use this link <http://cmhc.ucsd.edu/about/conference.cfm>

I look forward to your reply.

Sincerely,

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Penny Dockry
Assistant to the Director
Center for Marine Biodiversity and Conservation
Marine Biology Research Division 0202
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University of California San Diego
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La Jolla, CA 92093-0202
858-822-2790 (direct line)
858-822-1267 (fax)
<mailto:pdockry@ucsd.edu>
<http://cmhc.ucsd.edu>

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Request #4

Dear Dr. Edward R. Urban,

I am planning to organise a workshop on marine ecology for scientist, students working in the field of marine ecology from South Asian countries. Is it possible SCOR to support this workshop? After hearing from you I will send further details.

Thanks

With regards

Sincerely

DR. B.G.kulkarni

The Institute of Science,

301, Vibhavari,

Dinsha Vachha Road,

Churchgate, Mumbai 400 020

India

From: Ed Urban <scor@jhu.edu>

To: Balasaheb Kulkarni <balasaheb_k@hotmail.com>

Subject: Re: Financial assistance

Date: Tue, 25 Mar 2003 10:39:18 -0500

Dear Dr. Kulkarni,

Support from SCOR depends on a variety of factors. Please send me a letter that describes the workshop, when it will be held, what are the other funding sources, how many individuals will be involved, and such matters.

Please note, however, that SCOR has committed all of its travel funds through the end of 2003 and will decide on the next group of requests at its Executive Committee meeting in mid-September 2003.

Best regards,

Ed Urban

Date: Thu, 27 Mar 2003 20:28:02 +0530

From: Balasaheb Kulkarni <balasaheb_k@hotmail.com>

Subject: Re: Financial assistance

To: scor@jhu.edu

Dear Dr. Ed urban,

Thanks for your reply. Mainly the workshop will tackle problems concerned with coastal ecology and biodiversity. I am approaching to other international as well as to our funding agencies for getting enough funds. Mostly workshop will accommodate 25 overseas and 20 local participants which will include students and scientist below 40. I am planning this workshop in December 2004 so I will get sufficient time for preparation. Your suggestions are welcome. If you need more information in any format, please let me know.

With best regards

Sincerely, Dr. B.G.kulkarni

Request #5

Request for funding for developing country scientists to attend the

GLOBEC – SPACC Workshop on the Economic and Social consequences of climate change on pelagic fish production

Conveners: Rögnvaldur Hannesson (Norway), Sam Eric (USA), Mahfuzuddin Ahmed (Malaysia), et. al.

Date and venue: Late 2004, venue to be decided

Scope

Although we have conducted substantial research on the causes and nature of fish biomass fluctuations and their relationship to climate change, the economic and social consequences of these fluctuations are largely unknown. Fragmented and incomplete information on these economic and social consequences suggest that a workshop is required to conduct a major review that would lead the research community and resource managers in coming decades. One of the reasons for the workshop is the realization that the consequences of these fluctuations are geographically linked: Boats and processing equipment made obsolete by the disappearance of the California sardine were exported to Peru and South Africa, crab boats fishing off Alaska were directed at other types of fish, the canning industry is largely obsolete in countries with high wages irrespective of the size of the stocks.

Structure

The workshop would be structured along cases studies, which would include, *inter alia*, the collapses of the Atlanto-Scandinavian herring and its impact on the Icelandic and Norwegian economies; the ENSO-related collapses of anchovy off Peru and Chile; the fluctuations between anchovy and sardine off southern Africa and their impacts. The workshop would result in a book reviewing case studies and emphasizing the global nature of the drivers of change, the socio-economic consequences and adaptations to these, and their linkages across regions.

The questions we envisage as focal for the workshop are as follows:

- What has been the economic and social impact of stock fluctuations, particularly stock crashes, in the past?
- What have been the consequences of stock crashes, and where they long lasting or irreversible?
- Do these effects differ between types of societies or products (poor *versus* rich countries, fish meal *versus* luxury markets)

Request

SPACC is one of the few global change international initiatives supported and driven from developing countries and suffers from the lack of central funding from these countries for coordination activities. Currently this workshop has support from GLOBEC funds, and additional support to invite specific scientists is being sought through different sources. **We request SCOR's support of \$3,500 to cover the traveling expenses of 2 scientists (possibly one from Africa and another from South America) to attend the above meeting.**

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5.4 SCOR Reports to Developing Country Libraries

Only one report has been sent to developing country libraries since the 2002 General Meeting, the *Oceans 2020* report. The SCOR Secretariat has received 50 copies of the special issue of *Progress in Oceanography* that resulted from the work of WG 108. The mailing will await the arrival of the special issue from WG 113, so the publications can be sent together.

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

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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