



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

PRESIDENT: Professor Bjørn Sundby
SECRETARY: Dr. Julie A. Hall
EXECUTIVE DIRECTOR: Dr. Edward R. Urban, Jr

MEMORANDUM

TO: Attendees, 2006 SCOR General Meeting
FROM: Ed Urban, SCOR Executive Director
RE: Background Book for Meeting
DATE: 22 September 2006

I am pleased to enclose the background book for the upcoming SCOR General Meeting in Concepción, Chile. 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 in Tab 1. 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.jhu.edu/scor/2006GM.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 Concepción next month.

**2006 SCOR General Meeting
23 – 26 October, 2006
Concepción, CHILE**

<http://www.jhu.edu/scor/2006GM.htm>

<http://www.cona.cl/scor/index.htm>

<http://www.udec.cl>

LOCAL ORGANIZING INSTITUTIONS & SPONSORS

Facultad de Ciencias Naturales y Oceanográficas, Universidad de Concepción
Comité Oceanográfico Nacional (CONA)
Servicio Hidrográfico de la Armada SHOA)
Comisión Nacional de Ciencia y Tecnología (CONICYT)

VENUE

Concepción

Located along the Bio Bio River next to the Pacific coast, Concepción is the second largest city in Chile, and the capital of the VIII Region, central Chile. For more information on Concepción, please visit:

<http://www.chile-travel.com/concepchi.htm>

Hotel El Araucano

Caupolicán 521, Concepción, CHILE.

<http://www.hotelaraucano.cl/> Telephone: 56 – 41 – 2740606, Fax: 56 – 41 - 2740690

Hotel El Araucano is located in downtown Concepción and has a specially equipped business centre for all its guests, with Internet access and WI-FI connection in every room and in common areas. Special room rates for SCOR participants are available. Taxi service is available at El Araucano's Front Desk, upon request

SCOR LOCAL ORGANIZING COMMITTEE

Dr. Franklin Carrasco

President of the Local Organizing Committees (SCOR and OMZ workshop)
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PASSPORT, ENTRY VISA AND RECIPROCITY FEE

Passport: Citizens from Argentina, Perú and Brazil do not require passports to enter Chile. They can enter the country with their national identification document.

Visa requirements: Citizens from the following countries require a visa to enter Chile: Cuba, China, India, Kuwait, Namibia, Nepal, Pakistan, Russia and Taiwan (for other countries and more information, please visit: <http://www.minrel.gov.cl/webMinRel/home.do?sitio=1>)

Ordinary passport holders from Australia, Canada, Mexico and the United States are subject to a reciprocity fee. This fee must be paid in cash in national currency or in U.S. dollars, only once in the life of a passport, at the desks established for this purpose at Santiago's International airport (just before the passport control area).

COUNTRY	COST
AUSTRALIA	USD 56
CANADA	USD 132
MEXICO	USD 15
UNITED STATES	USD 100

Diplomatic or Official Passport holders from Australia, Canada, Mexico and the United States are exempted of the payment of the reciprocity fee.

RATE OF MONEY EXCHANGE

The rate of exchange varies daily and the most common currency available for exchange is the U.S. dollar. For daily rate of exchange please visit: <http://www.emol.com/>. This site also offers a currency converter ("Convertidor de Monedas"). The following Currency Exchange Offices can be found within walking distance from Hotel El Araucano:

Afex	Barros Arana 565 Loc. 57	2239618 / 2210590
CC Varex Ltda.	Barros Arana 565 Loc. 54	2246623
Fides Ltda.	Barros Arana 565 Loc. 58	2228914 / 2259515
Money Exchange	O`Higgins 527	2910266

There are also currency exchange booths at the airport.

TRANSPORT

Concepción is located about 500 km south of Santiago, where all international flights end. Santiago's International Airport is called "Comodoro Arturo Merino Benitez" <http://www.aeropuertosantiago.cl>. Concepción's Airport is called "Carriel Sur" <http://www.aerpuertocarrielsur.co.cl>. You may travel from Santiago to Concepción:

By plane: Frequent hour-long flights from Santiago land at Aeropuerto Carriel Sur, in Concepción. For domestic flight information, please visit: <http://www.lan.com>. The airport at Concepción is very near the city, just a short fifteen-minute drive. There are vans that can take you directly to your hotel for around ten dollars. A taxi will charge you twice as much.

By Bus/Train: Travel to and from Concepción is also possible by train (4 hours to Chillán and 1 additional hour by bus to Concepción with the same ticket) or bus (around 7 hours). There are buses outside Santiago's international airport building that will take you to the railway station or bus terminal in around 30 minutes.

By car: Driving from Santiago takes about 6 hours on the Pan American Highway. You can rent a car at the airport and drop it off at your final destination.

LOCAL WEATHER

October is spring time in Concepción, but early mornings and evenings can get quite chilly. Warm clothing is advisable for these times of day. Scattered showers can also be expected at this time of year. For complete information on local weather forecast, please visit: <http://meteochile.cl/reg08.html>

SECURITY TIPS

Chile in general and Concepción, in particular, are regarded as safe places to visit. Precautions should be the same as the ones taken when visiting any major city in the world. It is advisable to leave valuable objects and personal documents at the safety box in your hotel room. At the airport and walking downtown, make sure not to leave your personal belongings unattended.

OTHER INFORMATION

MUSEUMS

Name	Address	Telephone
Buque Huascar	Sector Base Naval. Talcahuano	2745000
Casa del Arte	Barrio Universitario, Concepción.	2234985
Galería de la Historia	V.Lamas/Lincoyán, Concepción.	2231830
Museo Concepción	Plaza Acevedo Maipú 2359,	2310932
Museo de Arte Sagrado de la UC	Caupolicán 441, Concepción.	2735060
Museo Hualpén	Cam.Desembocadura Bio-Bio.	2251738
Museo Interactivo Big-Bang	Av. El Parque S/N Lota.	2871549
Museo Stom	Progreso 156 Chiguayante.	2350562

RESTAURANTS (Service is not included: tip= 5-10%)

NAME	ADDRESS	Telephone	Type of food
Al Pan Pan al Vino Vino	Bahamondes 89 P.de Valdivia	2331394	Chilean Food
Arabian	Pedro de Valdivia 911	2791444	Arabian
Canto de Luna	Av.Costanera 825	2284545	International Cuisine
Catus Pizza	Salas 94	2231785	Pizzas
El Riquén	Av. Ramón Carrasco 395	2482501	Chilean Food
Chung Hwa	Barros Arana 262	2229539	Chinese
Doña Amelia	O'Higgins 340	2240078	Steak House
El Parque Restaurante	Veteranos del 79 N° 780	2245818	International Cuisine
Jazz Restaurant	Av. García de Ramón 215	2736161	International Cuisine
Le Citron	Aníbal Pinto 126	2520977	French Cuisine
Le Chateau	Colo-Colo 340	2229977	French Cuisine
Monte Río	Cam.a Chgte. 5915 Calle 3	2349100	International Cuisine
Mutto's Pizza	Av.Pedro de Valdivia 1065	2331459	Pizzas
Parrilladas.com	Bandera 334	2730102	Steak House
Piedra Molino	Pedro de Valdivia 1311	2733303	Chilean Food
Puerto Laguna	Av. Costanera 1025	2374462	International Cuisine
Rancho de Julio	O'Higgins 36	2239976	Chilean Food
Solo Carne	Av. San Andrés 78	2480119	Steak House
Sublime	Freire 1633	2245796	Steak & Fish
Swin Bar Restaurante	Cam.Sta.Juana km.0,5	2947692	International Food
Tijuana	Cam.Sta.Juana Km. 2.5	2280019	Mexican Food
Torreon Restaurante	Freire 1743	2252797	Fish & Seafood

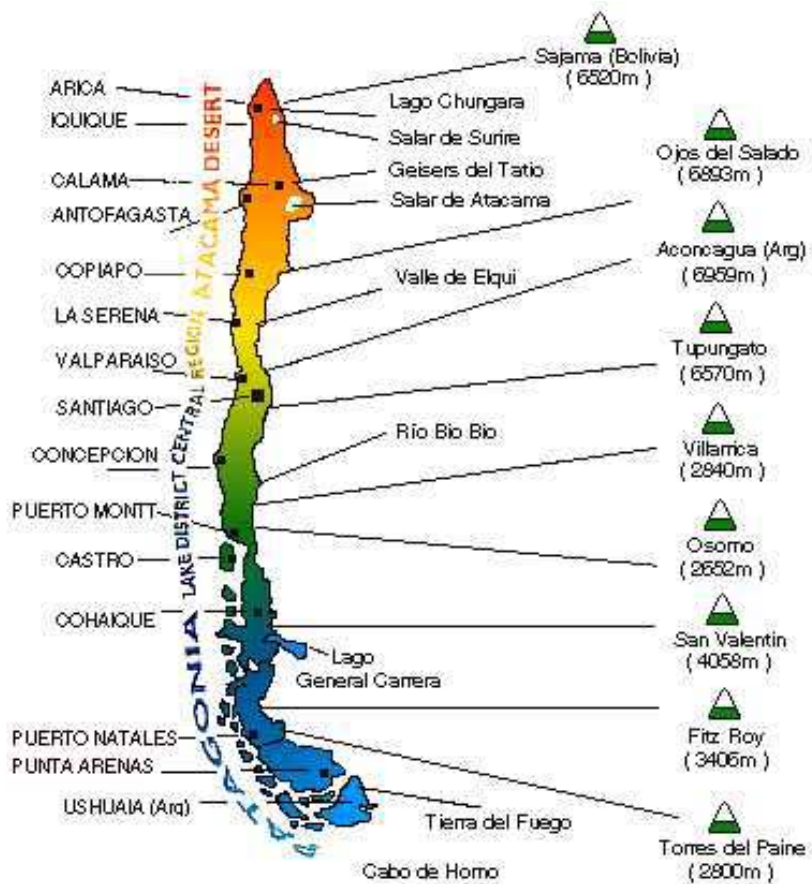
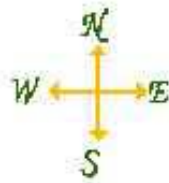
HOTELS

NAME	Website
Hotel Alborada	http://www.hotelalborada.cl
Hotel Terrano	http://www.hotelterrano.cl
Hotel Diego de Almagro, Concepción	http://www.hotelesdiegodealmagro.cl
Hotel El Dorado	http://www.hoteleldorado.cl
Holiday Inn Express	http://www.holidayinn.cl/app03/hogar/ccp.html
Hotel Alonso de Ercilla	http://hotelalonsodeercilla.cl

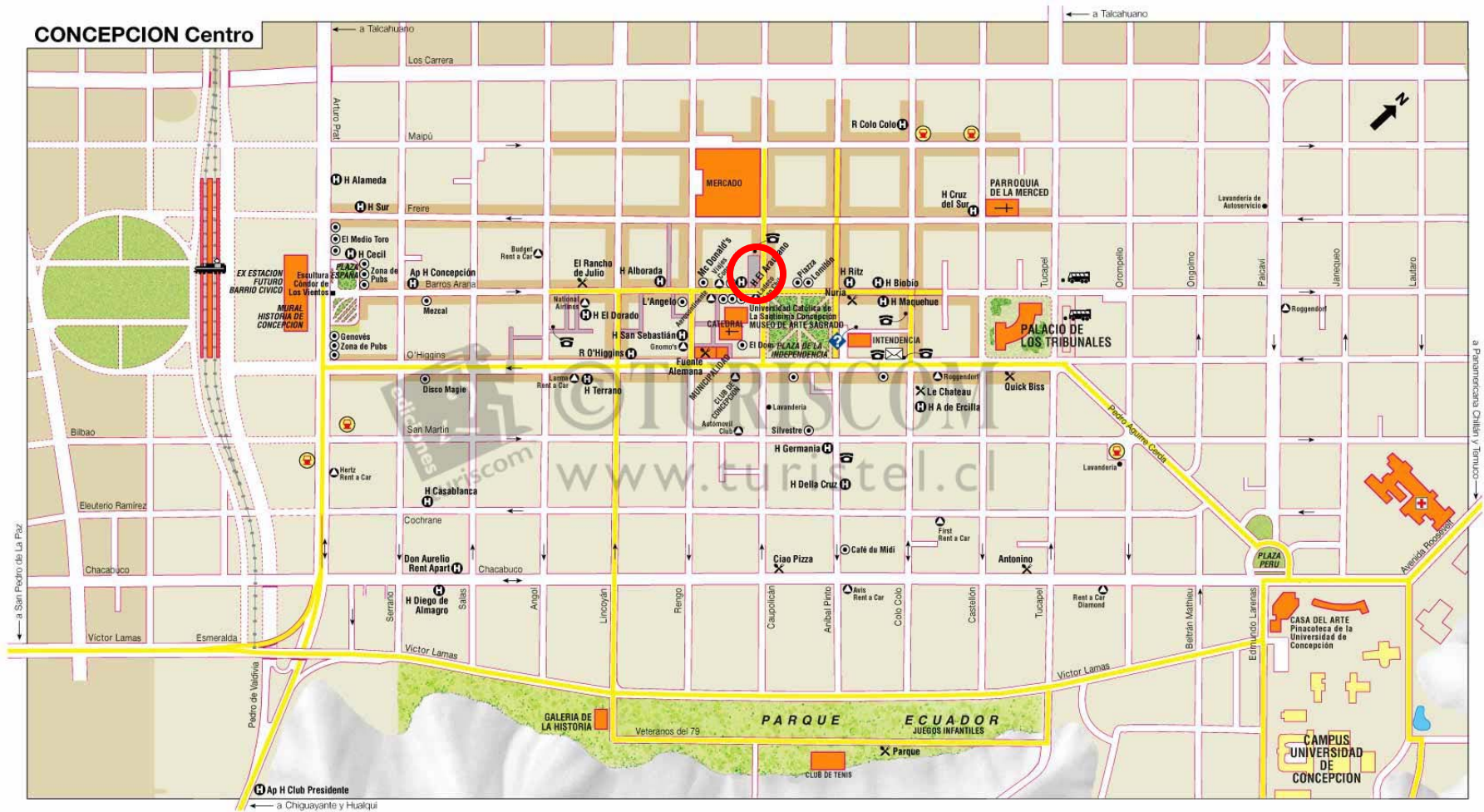
CAR RENTAL (Car rental companies at the Aeropuerto Carriel Sur, in Concepción)

Company's Name	Contact Information
HERTZ, Rent a Car	counter_concepcion@autorentas.cl Phone: 56 41 27302015 Contact: Ms. Maite Soto
ALAMO, Rent a Car	Phone : 2732028
AVIS, Rent a Car	Phone : 2235837
BUDGET, Rent a Car	Phone : 2212438

Chile



Concepción, Chile





OXYGEN MINIMUM SYSTEMS IN THE OCEAN: DISTRIBUTION, DIVERSITY AND DYNAMICS

OCTOBER 24 – 26, 2006

HOTEL EL ARAUCANO, CONCEPCION

CHILE

Faculty of Natural and Oceanographic Sciences, Department of Oceanography,
Center for Oceanographic Research in the eastern South Pacific (COPAS)

UNIVERSITY OF CONCEPCION

The Faculty of Natural and Oceanographic Sciences, the Department of Oceanography, and the Center for Oceanographic Research in the eastern South Pacific (FONDAP-COPAS) of the University of Concepción, are pleased to announce the Workshop on "**Oxygen minimum systems in the ocean: distribution, diversity and dynamics**", to take place in Concepción, Chile, October 24-26, as an activity that will coincide with the 2006 SCOR (Scientific Committee on Oceanic Research) General Meeting.

The Workshop will bring together scientists and students from many countries into one meeting covering the following areas of oceanography related to oxygen minimum zones and oxygen deficient waters: physical and chemical oceanography, biogeochemistry, ocean-atmosphere interactions, biology, biodiversity, ecology, paleoceanography, and anthropogenic influences.

The Sponsors of this Workshop are looking forward to welcome you in Concepción!

Structure of the Workshop

The Workshop will consist of invited lectures to be delivered during the first two days, and posters. Posters will be exhibited during the three days of the Workshop; brief poster presentations are scheduled for the last day of the Workshop.

A limited number of fellowships are available for students and young investigators.

Workshop Registration Fees:

Pre-Registration

Participants are advised to register in advance at reduced pre-registration rates by **September 1st 2006**. Pre-registration fees are:

Students	: US\$ 50
Scientists	: US\$ 100
Institutes, Centres & Companies	: US\$ 200

On-Site Registration

On-site registration will be possible at the Workshop. On site-registration fees are:

Students	: US\$ 60
Scientists	: US\$ 120
Institutes, Centres & Companies	: US\$ 250
General registration)	

Fees include a booklet with all abstracts, and a welcome reception on October 24th 2006.

Presentations

Oral Presentations of Invited Speakers

There will be a permanently installed desk top with projector at the Conference Hall. Invited speakers should bring their presentations on own data medium (CD – Pen Drive). Slide projectors and/or transparencies projectors should be requested beforehand.

Poster Presentations and Poster Sessions

The final day will be devoted to the brief presentation of posters and their discussion, in parallel sessions. For each poster one numbered poster board in portrait format will be reserved with a clear dimension of 150 cm (width) x 220 cm (height). All the material necessary for attaching the poster to the poster board will be available in the respective poster area.

We encourage the participation of students and young investigators in the poster session. A limited number of fellowships will be available for students and young investigators.

Abstracts

The deadline for the submission of abstracts is **June 30, 2006**.

Format for Abstracts

- **Extended Abstracts** (for invited speakers only): 4-5 pages, including figures.
- **Poster Abstracts** (for all other participants): 1 page of text.

Confirmed Invited Speakers

Yrene M. Astor

Fundación La Salle de Ciencias Naturales,
Estación de Investigaciones Marinas, **Venezuela**

Seasonal variability in the hydrochemical structure of the suboxic waters at the Cariaco Time-series station

Kenneth W. Bruland

University of California , Santa Cruz , **USA**

A review of the chemistries of redox sensitive elements within suboxic zones of oxygen minimum systems

<http://oceansci.ucsc.edu/faculty/bruland.html>

Tage Dalsgaard

National Environmental Research Institute, **Denmark**

Nitrogen cycling in suboxic water columns

http://www2.dmu.dk/1_Om_DMU/2_medarbejdere/cv/employee2_NH.asp?PersonID=TDA

Rubén Escribano

FONDAP-COPAS Center, Universidad de Concepción, **Chile**

Zooplankton interactions with the oxygen minimum zone in the eastern South Pacific

http://copas.udec.cl/eng/copas/personnel/cv_researcher_personal.php?getby=id&value=9

Víctor A. Gallardo

FONDAP-COPAS Center, Universidad de Concepción, **Chile**

The sediment microorganisms under the Oxygen Minimum Zone, present day analogs of Precambrian Oceans?

http://copas.udec.cl/eng/copas/personnel/cv_researcher_personal.php?getby=id&value=13

Humberto González

FONDAP-COPAS Center, Universidad de Concepción, **Chile**

Downward fluxes of particulate organic matter in coastal and oceanic areas off Chile : the role of the OMZ and functional groups of the plankton

http://copas.udec.cl/eng/copas/personnel/cv_researcher_personal.php?getby=id&value=11

Dimitri Gutiérrez

Instituto del Mar del Perú, IMARPE, **Perú**

Oxygen deficiency, sedimentary environments and benthic communities in the Peruvian upper continental margin

Dr. Samuel Hormazabal

Department of Geophysics, Faculty of Physics and Mathematics, University of Concepción, Chile

Richard J. Matear

CSIRO Division of Marine Research, Hobart , **Australia**

New global warming projections of changes in dissolved oxygen concentrations in low oxygen regions of the oceans

<http://www.marine.csiro.au/~matear/>

Syed Wajih Ahmad Naqvi

National Institute of Oceanography , **India**

Oxygen deficiency in the North Indian Ocean

<http://www.nio.org/jsp/ResearchersDisplay.jsp?pubkey=Naqvi,%20S.W.A.>

Temel Oguz

Middle East Technical University , **Turkey**

Mechanisms controlling the Suboxic Layer of the Black Sea: Observations and Modeling

<http://www.ims.metu.edu.tr/cv/oguz/main.html>

Silvio Pantoja

FONDAP-COPAS Center, Universidad de Concepción, **Chile**

Biogeochemistry of the OMZ off Chile

http://copas.udec.cl/eng/copas/personnel/cv_researcher_personal.php?getby=id&value=6

Renato Quiñones

FONDAP-COPAS Center, Universidad de Concepción, **Chile**

Living in the oxygen minimum zone: a metabolic perspective

http://copas.udec.cl/eng/copas/personnel/cv_researcher_personal.php?getby=id&value=4

Nancy N. Rabalais

Louisiana Universities Marine Consortium , Louisiana , **USA**

Oxygen Depletion in the Gulf of Mexico Adjacent to the Mississippi River

<http://www.lumcon.edu/research/faculty/faculty.asp?name=nrabalais>

Wolfgang Schneider

FONDAP-COPAS Center, Universidad de Concepción, **Chile**

Vertical and horizontal extension of the oxygen minimum zone in the eastern South Pacific Ocean

http://copas.udec.cl/eng/copas/personnel/cv_researcher_personal.php?getby=id&value=14

Mary I. Scranton

Stony Brook University , New York , **USA**

The biogeochemistry of the suboxic and anoxic zones in the Cariaco Basin

<http://www.msrc.sunysb.edu/people/scranton.htm>

Osvaldo Ulloa

FONDAP-COPAS Center, Universidad de Concepción, **Chile**

Microbial communities and their biogeochemical role in the water column of the oxygen minimum zone in the eastern South Pacific

http://copas.udec.cl/eng/copas/personnel/cv_researcher_personal.php?getby=id&value=7

Workshop Coordinator : Dr. Víctor A. Gallardo (vagallar@udec.cl; vgallardo@coreocean.org)

Coordinator at large : Dr. John W. Farrington, Woods Hole Oceanographic Institution Woods Hole, Mass. , USA

English is the official language of the Workshop

Contact : Mónica Sorondo: monicaso@vtr.net ;
monica.sorondo@gmail.com

Links : <http://www.cona.cl/scor/oms.htm>
<http://www.copas.udec.cl>