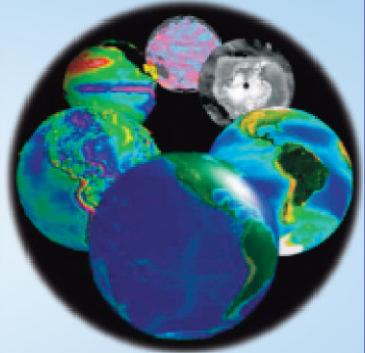


BULLETIN

of the

PORSEC

Association



Volume 9.2 September 2015

Dear Members of the PORSEC Association,

In this issue there is an invitation to PORSEC 2016 in Brazil and some more information about this exciting new venue and simultaneously we make a call for some folks to come forward with Proposals to hold the PORSEC 2018. Planning for a PORSEC Association conference needs a good long lead time for success. We also remind folks here to consider sending students in your groups to participate in the tutorial associated with PORSEC 2016.

We have a report about our membership in the PORSEC Association. For the Discussion Forum of the Bulletin we have a comment on an article by Dr. J Gower related to an earlier note from him about sea level rise. In the discussion forum he proposes a possible barrage across Gibraltar Strait. Comments on this idea and its consequences are solicited for future Bulletins of the PORSEC Association. We welcome more involvement in our discussion forums and comments on any articles in PORSEC Bulletins. In Issue 9.1 we were asking for some input from the members on the International Indian Ocean Expedition I (IIOE I). Equally welcome are comments about the current plans for IIOE number 2.

With warm regards,

Co-Editors Gad Levy and Kristina Katsaros
Gad AT porsec.nwra.com, Katsaros AT whidbey.net *

*we use "AT" in the email address of the text to avoid problems of pfishing

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PORSEC 2016

PAN OCEAN REMOTE SENSING CONFERENCE

4 – 11 November 2016, Fortaleza, Ceará, Brazil

The PORSEC 2016's Local Organizing Committee (LOC) has already begun working in the organization of PORSEC 2016, which will be held in the "Land of the Sun", as Fortaleza, in the State of Ceará, is known in Brazil. Fortaleza has a pleasant tropical climate: it is hot and dry, with annual mean air and ocean temperatures around 27°C. The relative humidity in Fortaleza is about 77%, with an average annual rainfall of 1378.3 mm. The rainy season is mainly from February to May.

Some initial information can already be found on the event's website (<http://www3.funceme.br/eos.porsec/>): Abstract submission guidelines, Acceptance letters, Registration dates, and about Fortaleza in Information. PORSEC's LOC is already discussing the programme of the event with the Scientific Organizing Committee (SOC) and more information will be added in the coming days. Check the website for important deadlines.

We emphasize that, at a time when the world has been systematically allocating resources to ocean studies and outlining strategic policies for the marine environment, the PORSEC 2016 will bring together major contributors to these discussions, since Fortaleza has a strong synergy with the ocean. Furthermore, it is worth remembering that the PIRATA Project, the boldest oceanographic project designed to monitor the Tropical Atlantic at near real time, was conceived here in the "Land of the Sun". It was designed in 1995, during one of the Intergovernmental Panel on Climate Change (IPCC) meetings, in partnership with the United States of America and France.

Our expectation is that the PORSEC 2016 will increase even more the perception of the country's government that the State of Ceará is a leading region in tropical oceanographic research, which includes satellite oceanography.

We expect to see you in Fortaleza at the PORSEC 2016.

Antonio Geraldo Ferreira
On behalf of the
Local Organizing Committee



PORSEC Discussion topic: Global reaction to sea level rise.

Jim Gower

Global sea level rise is now acknowledged as slow, but unavoidable. The “committed sea level rise” on the long term is about 2.3m for every degree C of global warming (Levermann et al., 2013). Since we appear to be failing to keep this warming below 2C, we will eventually have to deal with a rise of more than 4.6m.

Among other responses to this, it seems to me inevitable that we will soon have to dam the Strait of Gibraltar (Gower, 2015). Responses to this idea have varied from outrage to enthusiasm. Oceanographers in particular have a great fondness for the Strait and all it stands for, and are intrigued by its possible global role. In a popular article in the Scientific American, Stommel (1958) presented the “entertaining fantasy” of controlling climate by building a Gibraltar dam to block the outflow of deep, salty water. He admitted the limitation of this “control” in that the block would have an unknown, one-way effect, either towards global warming or cooling. The effect is now estimated to be relatively small. Today, humanity is not in control, but needs to plan to protect Mediterranean and Black Sea coasts from the rising sea.

The dam (see map in Figure 1) would be about 30km long, crossing water up to 280m deep. It would require about 4 billion tons of loose rock assuming an angle of repose of 30°. It would provide a land link between Spain and Morocco, something both countries are committed to achieving. Present plans for a tunnel or bridge face apparently insuperable difficulties, most of which would be solved by the dam. The dam could also be a considerable tourist attraction.

With the dam in place, Mediterranean and Black Sea levels would tend to drop by about 50cm/year, due to net evaporation in the Mediterranean basin. Surface water would need to pass through or over the dam to compensate for this, stabilizing the Mediterranean at an agreed level. Evaporation would slowly raise the average salinity of water behind the dam at a rate of about 1psu/100years. Pumping would only be needed when this rise starts to have serious effects, several centuries after dam construction.

The dam would require locks for shipping, both at the dam and at the other end of the Mediterranean, at Suez, where locks would have the beneficial effect of blocking the present inflow of alien species from the Red Sea and Indian Ocean.

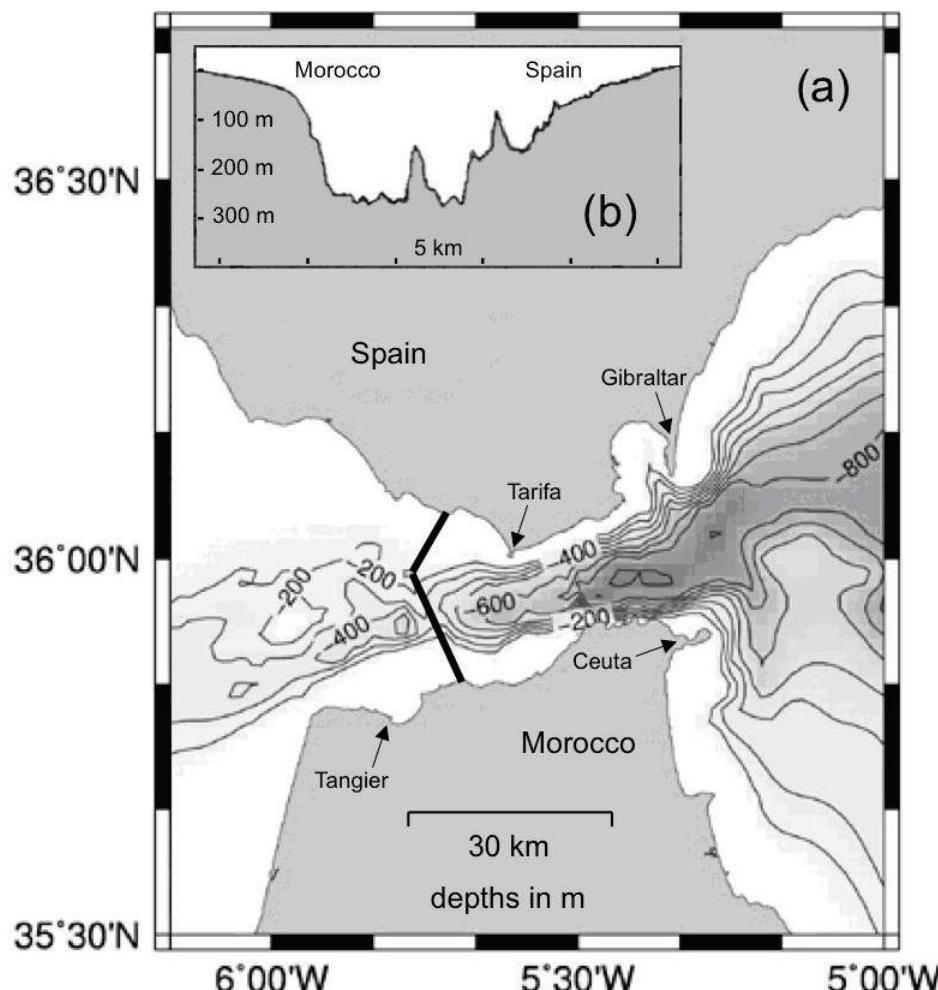


Fig. 1: Bathymetry of the Gibraltar Strait: (a) position of the dam (black line) along the shallowest sill, in the western Strait, and (b) depth profile along the dam.

I originally proposed the dam in response to a UNESCO (2012) report which concluded that Venice is indefensible on time-scales longer than a few decades in spite of major movable barriers (MOSE) now being built. The possibility of a dam would change this conclusion and would have immediate impact on long-term planning for the city.

What are the views of PORSEC members? Would your country be affected by a Gibraltar dam? What response is your country making to global sea level rise?

You can communicate directly with Dr. Gower via email Jim.Gower AT dfo-mpo.gc.ca

We would also appreciate your comments for publication in the next issue of the PORSEC Association Bulletin.

References:

Gower JFR, 2015, The case for a sea surface height control barrage on the Strait of Gibraltar, *Natural Hazards*, DOI 10.1007/s11069-015-1821-8, 2015.

Levermann A, Clark PU, Marzeion B, Milne GA, Pollard D, Radic V and Robinson A (2013) The multimillennial sea-level commitment of global warming, *Proceedings of the National Academy of Sciences*, 110, 13745-13750.

Stommel, H, (1958) The circulation of the abyss, *Scientific American*, 199, 85-90.

UNESCO (2012) The future of Venice and its lagoon in the context of climate change, Report of a meeting held Nov 2010, available from www.unesco.org/venice.

Membership Committee Appeal

from Alberto Mesta-Nunez, current chair

Becoming a member of PORSEC connects you with remote sensing scientists and students across the world. At present there are over 700 members and 27 countries represented in the PORSEC membership. PORSEC conferences provide an ideal forum for capacity building and networking with researchers on all aspects of oceanic remote sensing. To sustain the PORSEC organization it is important that new members continue to join us and existing members remain active. Please help spread the voice among colleagues and students about the many benefits of joining PORSEC. To help develop and maintain the PORSEC membership, the membership committee was reactivated in PORSEC 2014 with Alberto Mestas-Nunez as the lead. The committee is in need of members, so let us know you are interested in helping out. Ideally we should have membership representatives from each region.

Contact: alberto.mestas AT gmail.com

Notes and Announcements of interest to PORSEC members

POSITIONS

Colorado State University Atmospheric Science Tenure Track Faculty Positions College of Engineering

The Department of Atmospheric Science at Colorado State University invites applications for two tenure-track faculty positions at the assistant or associate professor level. We solicit candidates in the research areas of (1) clouds and mesoscale processes, and (2) surface-atmosphere interactions – with expertise in land-atmosphere coupling preferred. The new faculty members will be expected to build and maintain a strong, internationally recognized research program

supported through external funding, complement and expand upon the department's current research and teaching activities, and provide service to the University and broader community. They will also contribute to teaching and intellectual leadership in our atmospheric science curriculum at the M.S. and Ph.D. levels by teaching courses in the Department's core graduate curriculum, advising graduate students, and developing advanced courses in his or her areas of expertise. Further information about the Department can be found at <http://www.atmos.colostate.edu>.

A Ph.D. in atmospheric science or a closely related field is required by the position start date. Candidates should have an outstanding research record commensurate with experience and should demonstrate potential for continued extraordinary scholarship. Candidates must exhibit ability and enthusiasm to teach courses in the department's graduate curriculum.

Applications and nominations will be considered until the positions are filled; however, applications should be received by October 31, 2015 to ensure full consideration. Application materials of semifinalist candidates, including letters of recommendation, will be made available for review by the faculty of the Department of Atmospheric Science. Applicants should submit a cover letter, one to two page statements on research and teaching interests, curriculum vitae, and the names of four references (who will not be contacted without prior approval of the candidate) at the following link: <http://jobs.colostate.edu/postings/17728>.

Please address inquiries about the position to:

Professor Eric D. Maloney, Search Chair
Department of Atmospheric Science
Colorado State University
Fort Collins, CO
80523-1371
emaloney AT atmos.colostate.edu

Located 60 miles north of Denver, at the base of the Rocky Mountain foothills, Fort Collins is often ranked among the top places to live in the United States. The City offers a pleasant climate with excellent schools and abundant cultural and recreational opportunities nearby. More information on Fort Collins is available at www.ftcollins.com.

Condition for Employment:

Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search and motor vehicle history.

Commitment to Diversity and Inclusion:

Reflecting departmental and institutional values, candidates are expected to have the ability to advance the Department's commitment to diversity and inclusion.

Colorado State University does not discriminate on the basis of race, age, creed, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, gender identity or expression, or pregnancy. Colorado State University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services.

SENIOR STAFF SCIENTIST International CLIVAR Global Project Office Qingdao, China

CLIVAR (www.clivar.org) is a Core Project of the World Climate Research Programme (<http://www.wcrp-climate.org>) dedicated to understanding the role of the ocean in the variability, predictability and change of climate, to the benefit of society and the environment in which we live. Each of the Core Projects has an International Project Office that acts as an extension of the WCRP Joint Planning Staff in Geneva, Switzerland, that has the overall responsibility for all the WCRP Core Projects. The International CLIVAR Global Project Office (ICGPO) is one of several offices of the International CLIVAR Project Office (ICPO) that together serve as the executive arm of the CLIVAR Scientific Steering Group and its panel and working groups. The ICGPO is based at the State Oceanographic Administration's First Institute of Oceanography (SOA/FIO, Qingdao, China).

***Duties and responsibilities of the
ICGPO Senior Scientist***

The ICGPO Senior Scientist assists the ICPO Executive Director to ensure that the ICGPO provides an effective executive arm for the CLIVAR Scientific Steering Group (SSG), its panels and working groups.

The ICGPO Senior Scientist will have the following key responsibilities:

1. Serve as secretariat to CLIVAR panels and working groups within the remit of the ICGPO. Includes, *inter alia*, Assist the Panel/WG chairs in preparations for their meetings and workshops
Attend panel/WG meetings and workshops
Compile and edit the meeting reports and other relevant documents
Create and maintain pertinent and attractive webpages for the Panel/WG activities
Provide support to the Panel/WG Chairs between sessions.
Liaise with other ICPO offices on related activities.
Maintain an up-to-date knowledge of the relevant fields of research
2. Build and maintain effective links between the ICGPO and the wider climate community.
3. Prepare articles and written and graphical input to CLIVAR and WCRP publications and websites.
4. Assist the Executive Director as needed.

Qualifications

Graduate degree in oceanography or other climate-related science;
At least 5 years' experience in international coordination of scientific research;
Familiarity with the CLIVAR project is an advantage;
Excellent written and oral communication skills;
Webpage creation and editing skills;
Fluent in English, the working language of the ICGPO;
Willingness/ability to undertake short international travel;
Willingness to relocate.

Applications should include: (i) a Curriculum Vitae; (ii) a covering letter explaining your interest in the post and outlining your relevant skills and experience; and (iii) the names and addresses of three individuals who have indicated their readiness to provide a reference.

Applications should be sent via electronic mail to:
[icpo AT clivar.org](mailto:icpo@clivar.org) If you prefer another method, please contact the ICGPO administrative assistant:

Lina Kang
International CLIVAR Global Project Office, room 320
First Institute of Oceanography, SOA
6 Xianxialing Road,
Qingdao 266061, P.R. China
Tel: +86-532-8889 1760,
e-mail: [icpo AT clivar.org](mailto:icpo@clivar.org)

The closing date for applications is 15 October 2015.

The ICGPO Senior Scientist reports to the Director of the ICGPO. The ICGPO is hosted by FIO and follows the administrative guidelines and rules of the FIO.

The annual salary of the ICGPO Senior Scientist will be in the range of 320,000-440,000 CNY and will take due account of the experience and qualifications of the candidate.

A modest relocation allowance is available. All salaries are subject to Chinese income tax. The initial contract of employment will be one year, with the possible extensions for another three years. It is expected that the successful candidate would take up his/her appointment, located in Qingdao, from 1 January 2016, or as soon as possible thereafter.

For more information, please visit the project's website at:
<http://www.clivar.org/> or contact the ICGPO at:
[icpo AT clivar.org](mailto:icpo@clivar.org)

If you wish to discuss the position informally please contact Valery Detemmerman, ICPO Executive Director at:
[valery.detemmerman AT clivar.org](mailto:valery.detemmerman@clivar.org)

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CONFERENCES

The International Conference on Oceanic and Atmospheric (ICOA 2015)

<http://www.ic-oa.org/>

December 21-22, 2015 Bangkok, Thailand

2015 International Conference on Oceanic and Atmospheric (ICOA 2015) will be held in Bangkok, Thailand, December 21-22,2015.

The goal of this conference is to bring together the researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of oceanic and atmospheric.

Publication

All the accepted papers of ICOA will be published in THALASSAS.

Indexed by: SCIE

Call for paper

Ocean geology science;

Ocean Geosciences;

Offshore engineering;

Coastal engineering;

Offshore oil;

Tidal Energy;

Wave energy;

Atmospheric aerosols;

Atmospheric chemistry and physics

...

Important Dates

Full Paper Submission Due: July 31, 2015

Contact Us

Email:[icoa2015 AT 126.com](mailto:icoa2015@126.com)

[icoa2015 AT foxmail.com](mailto:icoa2015@foxmail.com)

PUBLICATIONS

The Indian Ocean Bubble-2

The third issue of "The Indian Ocean Bubble-2" covers updates on the planning of IIOE-2, perspectives of IIOE-1 and details of ongoing Indian Ocean research programmes etc.

It is accessible at http://www.incois.gov.in/documents/IndianOceanBubble2_3rd.pdf

Call for Articles to the next issue of "The Indian Ocean Bubble-2"

We would like to Contributions are invited for the next issue which is planned for release during the IO50 Symposium to be held in Goa, India (30 November- 4 December 2015). Kindly send your contributions as soon as possible, latest by 30th October 2015.

Research articles, cruise & workshop reports and perspectives related to Indian Ocean studies are welcome from researchers at all levels.

Articles up to 1500 words in length with suitable figures and photographs may be emailed to iioe@incois.gov.in (photographs of all contributing authors may also be provided).

IEEE JSTARS Special issue on "Remote Sensing of the World's Oceans"

From our SOC member: Xiaofeng Li

Dear Colleague:

Please consider to submit your next paper to IEEE JSTARS Special issue on "Remote Sensing of the World's Oceans"

http://www.grss-ieee.org/publications/jstars/#open_special_issues

Guest Editors : Xiaofeng Li (USA) and Ronan Fablet (France)

Deadline: Dec. 1, 2015 Publication date: Oct. 1, 2016

JSTARS is one of the major journals for IEEE GRSS. It's listed in SCI with an impact factor of 3.026.

Xiaofeng understands that the deadline is fast approaching. He'll talk to IEEE to see if he can extend it a little bit. In the meantime, please let him know if you intend to submit a manuscript but need extra time.

xiaofeng.li At noaa.gov

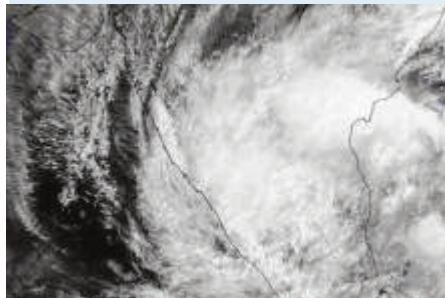
NEWS

Typhoon Disaster Assessment and Emergency Management published by Science Press (China)

On August 25th 2015, the launching ceremony of Typhoon Disaster Assessment and Emergency Management was held in International Conference Hall of Guangdong University of Foreign Studies (GDUFS). Published by

Science Press (China), the book was written by Professor Sui Guangjun (Guangdong University of Foreign Studies) and Professor Tang Danling (PORSEC President, South China Sea Institute of Oceanography, Chinese Academy of Sciences).

INCOIS to come out with 3D GIS maps to mitigate tsunami effects



The INCOIS team is mapping the coastal and inland areas of Puducherry town (Image: NASA)

The Indian National Centre for Ocean Information Services (INCOIS) is working on the creation of 3D Geographic Information System (GIS) maps to ease the evacuation of people from vulnerable areas at risk of tsunami or other natural disaster.

The INCOIS team has been focusing on a multi-hazard vulnerability mapping of the coastal as well as the inland areas of Puducherry town which will bring as result 3D GIS maps of the vulnerable areas. These maps will support the local and disaster management agencies to better plan the evacuation process when a natural disaster warning is issued.

"The multi-hazard vulnerability mapping of around 3,600 square kilometres of coastal areas are being planned, out of which nearly 500 kilometres have been mapped so far," said the INCOIS Director, Satheesh C. Shenoi, according to The New Indian Express.

Read full story:

[The New Indian Express](#)

Following the tradition of successful PORSEC Congresses held in several countries, Australia (Melbourne), Canada (Victoria BC), Chile (Concepcion), China (Keelung-Taiwan, Guangzhou and Qingdao), Japan (Okinawa), India (Goa and Kochi), Indonesia (Bali), South Korea (Busan), the Organizing Committee is pleased to invite you to attend the

PORSEC 2016

that will be held the week of
November 4-11, 2016 at the
“Land of the Sun”,
Fortaleza, Ceará State, Brazil

Dr. Antonio Geraldo Ferreira
LABOMAR-Sea Science Institute
University Federal of Ceará-UFC
On behalf of organizing committee
email:antonio.ferreira at ufc.br

PORSEC 2016 web address will be updated with details at:
http://www.labomar.ufc.br/index.php?option=com_content&task=view&id=540&Itemid=1
and is also reachable from PORSEC web page: porsec.nwra.com

PORSEC Database

For our database of the PORSEC Association members we would like you to enter your information directly into our web membership form, if you haven't already done so: <http://porsec.nwra.com/membershipform.php>

Please fill this form even if you have already given the information to us in any other format since we may not have all that information down correctly. **Please use this form to update your information whenever you have any changes.** It can also be used to pay your membership fee.

This form is also accessible through our main page (<http://porsec.nwra.com>) by clicking on “Join the PORSEC Association”.

Please work on getting us more members; use the PORSEC home page and the above links for information. The prospective member provides us with the same information through the form. Memberships can be paid by U.S. check, if you have that available. It is too expensive to do bank transfers, so we suggest that the fee be paid to the PORSEC Association at the next conference. Any donations are also most welcome.

Information

For information about the association and links to Newsletters from the president and Bulletin issues go to: <http://porsec.nwra.com/>. To join the PORSEC Association go to membership on the web site or contact one of us directly. The Bulletin of the PORSEC Association is edited by Gad Levy and Kristina B. Katsaros. Production Editor Susanne Öhrvik. **We welcome contributions about your work and about any activities of our PORSEC members that may be of interest to other members for future issues of the Bulletin.** To submit articles for this Bulletin of the PORSEC Association, please contact gad at porsec.nwra.com or katsaros at porsec.nwra.com.