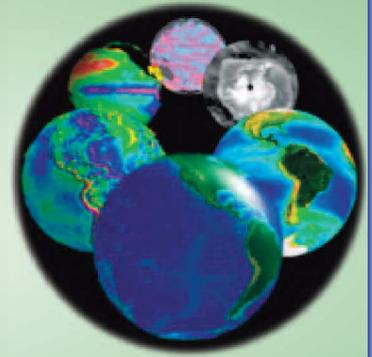


# BULLETIN

of the

# PORSEC

Association



Volume 4.2 August 2010

**Dear PORSEC Association members,**

This issue of the Bulletin of the PORSEC Association is just 2 months before the 2010 activities of our association start in Keelung, Taiwan. Please see the note from our President, Jim Gower, about the conference and the note about our tutorial course from Stephanie King, chair of the Education Committee. An announcement about the scholarships available for students to attend the tutorial and the conference was included in volume 4 issue 1. In this issue we are calling for applications from students at US institutions. This additional support we hope to receive from the U.S. National Science Foundation. --See the Notices below for details.

Further in this issue, we present a draft of the PORSEC Association Statement on Climate Change and the Oceans prepared by the Climate Committee.

We both look forward to meeting and greeting in Keelung. Please talk with us about future articles for the Bulletin and any suggestions you might have for us.

Gad Levy and Kristina Katsaros  
Co-editors of the Bulletin of the PORSEC Association

## Contents

Invitation from PORSEC President to PORSEC 2010	2
Climate Change Statement from the PORSEC Association	3
Status of Tutorial Course	5
Notices, job opportunities etc	6
Membership Information	12

## Message from the President

Dear PORSEC members, friends, colleagues,

I hope all of you are making plans to come to PORSEC2010 in Keelung, Taiwan, Oct 18 to 23, to join us in our survey of satellite oceanography with special focus on East Asian waters. It will be a stimulating and rewarding time. Our host, Ming-An Lee of the National Taiwan Ocean University, is preparing an interesting program for us. Keelung is a beautiful seaside town, outside the urban concentration of Taipei, but with almost equally convenient access to the airport.

At registration, don't forget to pay your membership fee and support the organization. It is a bargain at \$40 for 2 years (\$20 for students) and it gives you a reduction in your registration.

We have the publication of proceedings from our previous meeting (Guangzhou, China, Dec 2008) almost complete as a special issue of the International Journal of Remote Sensing. We are planning similar publication for this meeting.

There will be a student tutorial the week before the main meeting. I thank all who have volunteered to help organize and lecture for this. At present we have 27 student participants. More details on the tutorial can be found in this bulletin and also on the PORSEC website ([http://porsec2010.ntou.edu.tw/tutor\\_n.php](http://porsec2010.ntou.edu.tw/tutor_n.php)).

We need to plan ahead for the future of PORSEC. Our Organizing Committee will be meeting in Keelung to decide on future officers of the society and meeting locations.

Jim Gower  
President, PORSEC



*Ocean side park near Keelung showing the interesting geologic formations of the area.*

## Climate Change and the Oceans

*K.B. Katsaros Chair Climate Change Committee of PORSEC Association*

*A statement by the PORSEC Association is to be voted on by the SOC and approved by the General Assembly during PORSEC 2010. See box on the next page for a draft and provide comments to: katsaros (at) whidbey.net*

**Preamble:** The PORSEC Association is focused on oceanic research by satellite remote sensing. Climate change is global, and satellites are playing important roles in climate science. The PORSEC Association has therefore formulated a statement about this important issue. It is intended to aid its members in informing colleagues and the general public.

Currently, land and the oceans are absorbing about 50% of the carbon dioxide released through human activity (burning of fossil fuels and destruction of tropical forests and other carbon sequestering plant communities). The oceans are responding to climate change in two main ways:

- a) The warming of the oceans due to radiative feedback by the CO<sub>2</sub> in the atmosphere and melting of land-based ice sheets is threatening coastal communities by sea level rise.
- b) As a consequence of the CO<sub>2</sub> absorbed by the oceans, the acidity of surface waters has begun to increase. This is especially threatening to creatures with calciferous skeletons, including shellfish, plankton and corals.

PORSEC Association members with their expertise in remote sensing are in a position to contribute data on temporal changes of many variables often of regional, coastal and ecosystem concerns. They are also often asked to offer their insight into the status of the climate change problem. The following statement is therefore made on behalf of the organization. In view of the uncertainties in scientific research and the rapid developments in this field, the statement is intended to be revised and reissued by the PORSEC 2014 conference.

*The Scientific Organizing Committee by a single vote is the body authorized to amend this statement. We also have an AMS statement from 2007—very long. Could be referenced by web-connection*

## **THE PORSEC ASSOCIATION STATEMENT ON CLIMATE CHANGE**

Issued October 2010, valid until PORSEC 2014.

Rigorous international research has demonstrated that greenhouse gases resulting from human activities contribute to the warming of the atmosphere and the oceans. This constitutes a serious risk to the health and safety of human communities on the Earth, and has an impact on all life. We endorse the findings of the International Panel on Climate Change (IPCC) in their report of 2007. Changes that have been recognized include sea level rise, ocean acidification, loss of summer sea-ice in the Arctic Ocean, and increased melting of glaciers and permafrost. On land, we expect increased evaporation from lakes and wetlands, more extreme weather, severe urban heat waves, increased forest fires that turn valuable forest resources into carbon sources, and disruptions in agricultural, forest, and energy production. Related health issues, including epidemics, are a major concern.

Human activities must be optimized to significantly reduce emissions starting immediately. With vigorous action we can develop more efficient processes that reduce emissions, improve the quality of the air we breathe and the water we drink, maintain the integrity of our ecosystems, including the global ocean and the life within it. Such actions can open new economic opportunities and are likely to simultaneously improve the quality of human life. These actions must be initiated immediately since the carbon dioxide in the atmosphere has a long residence time and a return to a stable climate will require sustained efforts over a period of hundreds of years or more.

Major initiatives and changes are needed to adapt to our new climate status, including educating the public in the science of climate and climate change and planning for mitigation and adaptation.

## Status of tutorial Course

*News from Stephanie king, Chair Education Committee*

The PORSEC tutorial will be held on October 14 to 17, 2010 before the main PORSEC conference. There are 27 students and young scientists registered from the Philippines, India, China, Indonesia, Taiwan, India, Bangladesh, Thailand, Japan, Russia and the United States.

Lectures will be given by 17 internationally renowned scientists including lectures by Arthur Cracknell on getting research published, Joseph Comiso on his polar observations, and H.J. Lu on remote sensing fisheries applications in waters of the South China Sea. There will also be a practical demonstration of bio-optical instrumentation on a research vessel and a special field trip on Sunday, October 17.

The full schedule is on the PORSEC webpage [http://porsec2010.ntou.edu.tw/tutor\\_n.php](http://porsec2010.ntou.edu.tw/tutor_n.php). It should be another excellent part of PORSEC 2010.



*Right. NTOU Campus where the conference and tutorial will be held.*

*Below: Students gather before a boat trip during the 2008 PORSEC tutorial in Guangzhou, China.*



# NOTICES

## Announcements, News and Opportunities of Interest to the PORSEC Community

### ANNOUNCEMENTS & OPPORTUNITIES

#### **Scholarships to participate in the PORSEC tutorial workshop and conference (students/early career at US institutions):**

The PORSEC Association is requesting funding from the US National Science Foundation to support students and early career scientists at US institutions to attend PORSEC 2010. Applications are sought from students and early career investigators at U.S. institutions for partial travel support to participate in the PORSEC 2008 tutorial workshop and conference if requested funding is available. The support is intended for early-career investigators and students; under-represented groups are especially encouraged to apply.

**Eligibility and Application:** Successful applicants must attend the tutorial course or present a talk or poster at the symposium and must be enrolled at or employed by a U.S. institution. Priority will be given to students, early-career scientists, and members of under-represented groups in the science. The awards are expected to cover a portion of the travel, where applicants will be expected to receive the remaining support from their institution. All associated air travel must comply with The Fly America Act and its current implementing regulations. Please download an application form from <http://porsec.nwra.com/scholarship.doc> and submit by e-mail to [scholarships@porsec.nwra.com](mailto:scholarships@porsec.nwra.com)

**Application deadline: Aug. 25, 2010**

#### **Remote sensing of physical and biological processes: Application for waters around Taiwan and Northern hemisphere**

A Joint Taiwan-Russia Research Cooperation Symposium: "Remote sensing of physical and biological processes: Application for waters around Taiwan and Northern hemisphere" will take place in Keelung 13-17 Oct., just prior to PORSEC. For more details, contact Leonid Mitnik: [mitnik@poi.dvo.ru](mailto:mitnik@poi.dvo.ru), or Ming-An Lee: [malee@mail.ntou.edu.tw](mailto:malee@mail.ntou.edu.tw)

#### **Request to members of the ocean reanalysis community: CLIVAR EasyInit-Project**

At the CLIVAR meeting on decadal predictions, hosted by the KNMI last year, the modeling community had suggested and requested that ocean reanalysis are being provided in an "EasyInit" project that can support the coupled modeling community to ease the initialization of decadal prediction runs using ocean reanalyses. The KlimaCampus of the University of Hamburg had volunteered to host such a project and started the preparation of the infrastructure. First pilot application can be found and viewed at

<http://www.clisap.de/EasyINIT.easyinit.html>

where also a more in-depth description and explanation of the goals of the project can be found. As described there, the idea is, that all reanalyses currently referred to at the GSOP web page are being physically collected and provided in a uniform format with sufficient explanation, that the modeling community can get all reanalysis in a "one-stop" fashion and with a uniform format.

Although it took a while we are now ready to provide data through our server and assembled information on the syntheses in a table with links to project web pages and the data. As an example, we already made the ECCO/GECCO and ECCO2 data available through the [opendap](http://www.opendap.org) server.

We now would like to ask the synthesis community – i.e., you - to get your permission and consensus to provide your ocean synthesis and the associated meta information, as schematically illustrated in the draft table at <http://www.clisap.de/Ocean-Synthesis-Directory.596.0.html>. The table is mostly just a copy from the GSOP web page. It would be important that we

can provide most of the available ocean syntheses here as well. We also offer to continuously update the information in case you obtain a new improved synthesis. As a first step we will accept data on a regular lon./lat. grid as well as on native model grids together with grid information. As the data will be available through opendap, NetCDF format is preferred but we will try to accommodate all other formats. Our data center will assist you in transferring the data.

We hope that you are as excited about this step as we are, since it is an interface to the modeling community, which will facilitate the use of ocean syntheses in decadal forecasts, i.e., the insertion of ocean information into the IPCC and possibly SI forecasting processes. Please contact us if you are willing to contribute, for everyone else regard this as information on the new web page.

Request made by: Armin Köhl and Detlef Stammer.

## **NOAA Funding Opportunity Release: Climate Data Records (CDRs) from Satellites**

NOAA's Satellite and Information Service (NESDIS) has released an Announcement of Opportunity for the development, calibration and validation of Climate Data Records (CDRs) from satellite data. The selected activities will be part of NOAA's Climate Data Record Program (CDRP), managed at the National Climatic Data Center (NCDC) in Asheville. As part of an operational service agency, the CDRP is particularly focused on the adaptation and transition into operations of mature algorithms and processes that were developed and successfully demonstrated as part of research-oriented programs and agencies (e.g., NASA's Earth Observing System). The full Announcement is available through the Federal Register (Funding Opportunity Number: NOAA-NESDIS-NESDISPO-2011-2002566; Posted July 16, 2010 (Volume 75, Number 136, Page 41681). The Announcement, as well as other information about the CDRP, are available at:

<http://www.ncdc.noaa.gov/sds/>

This Announcement is open to applicants from institutions of higher education; other nonprofits; for profits; commercial organizations; international organizations; state, local and Indian tribal governments; and Federal agencies.

***Due dates: Letters of Intent (not required): 15 September 2010. Proposals: 10 November 2010.***

## **Release of Community Earth System Model (CESM 1.0)**

For a brief description of the notable improvements to the model, please see [http://www.cesm.ucar.edu/models/cesm1.0/notable\\_improvements.html](http://www.cesm.ucar.edu/models/cesm1.0/notable_improvements.html). The release is accompanied by extensive documentation for each component along with a detailed CESM1.0 User's Guide for the entire system. To obtain access to the CESM1.0 code base, please go to <http://www.cesm.ucar.edu/models/cesm1.0/>, and click on "registration" under the Acquiring the Code section. Once you have agreed to the terms of use, you will be sent an email containing the location of the Subversion repository along with a user name and password. The username/password can be used with Subversion client software, such as the command-line tool svn, to download the code. Detailed instructions for downloading the code are available in the CESM1.0 User's Guide. For more information on using Subversion see <http://subversion.apache.org>.

Please note that because we are using self-signed certificates with our repository server, users will likely get a message warning that the URL entered may not be for a "trusted authority." Please be assured that we are indeed a trusted site and be aware that your browser may require loading an exception in order to gain access.

## **Comments invited for: The Southern Ocean Observing System (SOOS) plan**

The Southern Ocean provides the principal connection between the Earth's ocean basins and between the upper and lower layers of the global ocean circulation. As a result, the Southern Ocean strongly influences climate patterns and the cycling of carbon and nutrients. Changes in the Southern Ocean would therefore have global ramifications. However, the short and incomplete nature of existing time series makes the causes and consequences of observed changes difficult to assess. Sustained, multi-disciplinary observations are required to detect, interpret and respond to change. The Southern Ocean Observing System (SOOS) plan outlines the scientific rationale and strategy for the SOOS; identifies the variables to be observed; presents a draft plan for an integrated multi-disciplinary observing system for the Southern Ocean; and identifies the next steps required for implementation. We encourage all interested parties to provide feedback (email: [soos \(at\) scar.org](mailto:soos@scar.org)) before the 1st of October, after which a final

version will be produced. Further details are available from the SOOS page of the SCAR website: <http://www.scar.org/soos/>

## NEWS

### **Gulf of Mexico Oil Spill In The Loop Current:**

The Loop Current joins the Gulf Stream — the northern hemisphere's most important ocean-current system — sparking fears that oil could enter this system and be carried up to the US East Coast and reach Canada's Maritime Provinces. Scientists monitoring the US oil spill with Earth Observation (EO) radar satellite say that it has entered the Loop Current, a powerful conveyor belt that flows clockwise around the Gulf of Mexico towards Florida. To view images from May 12, 15 and 18 showing the oil spill moving closer the Loop Current, please visit: [http://www.esa.int/esaCP/SEMBKST889G\\_index\\_1.htm](http://www.esa.int/esaCP/SEMBKST889G_index_1.htm). Advanced processing methods have been performed on the satellite images to display ocean surface roughness variations and Doppler-derived ocean surface radial velocities around the oil spill area in the Gulf of Mexico.

## COURSES, WORKSHOPS AND CONFERENCES

### **The Third International Workshop on Next-Generation NWP Models: Bridging parameterization, explicit clouds and large eddies.**

*Jeju Island, South Korea,  
29 August – 1 September 2010*

The main theme is "the cloud-resolving modeling approach and beyond".

As of 2010, convection-permitting and cloud-resolving scale modeling have become practically feasible, together with the successful usage of LES in developing sub-grid scale parameterizations for these models. The subjects for presentation include:

- Current status of very high-resolution operational models
- Advances in dynamical core and physics algorithms
- Convection-permitting and cloud resolving scale modeling
- Large-eddy simulation and its application

If you would like to participate then please email shong at yonsei.ac.kr. If you would like to give a talk on one of the above topics or suggest an additional area for discussion, then please include a short abstract by 6th August (but note that since this is only a 2 day presentation, the number of oral presentation is limited).

Further details:  
<http://nml.yonsei.ac.kr/20100829/>

### **AGU Fall Meeting San Francisco, CA 13-17 December 2010**

Abstract Submission Date: 2 September 2010 - <http://agu-fm10.abstractcentral.com>

*Special Sessions of interest:*

#### **GC21: Near-Term Climate Change**

This session focuses on 20-30 year projections for the climate system and the means of making those projections. Such projections may include global or regional temperatures, precipitation patterns, sea ice or land ice changes, albedo changes, carbon cycle changes, changes to the natural oscillations, etc. Possible abrupt climate changes are also considered. Challenges in making near-term projections, advances in the tools available for doing so, ranges of uncertainty, and differences among scenarios are included. Big-picture perspectives are encouraged.

#### **A03: Understanding Drought Variability, Forcing, and Feedbacks**

Drought is a recurring worldwide phenomenon, with often severe impacts to ecosystems and society. Under-

standing how drought variability will change in the future, and how exceptional those changes will be in the context of the last two thousand years, will require an understanding of the spatiotemporal patterns of drought variability and the underlying physical mechanisms (forcing and feedbacks) that drive those patterns. We invite contributions from studies offering insight into 1) the patterns of drought variability over the last two millennia and 2) the mechanisms underlying drought occurrence, persistence, and severity, including external forcing factors (e.g., solar, greenhouse gases, sea surface temperatures) and feedbacks (e.g., soil moisture, vegetation, aerosols, clouds).

#### **A21: Multi-scale Organization of Tropical Convection: YOTC**

The objective of YOTC (A WCRP-WWRP/THORPEX Research Program) is to improve our understanding and representation of tropical convection and its interactions with other weather/climate processes. Foci include the MJO, easterly waves and tropical cyclones, diurnal cycle, monsoons and tropical-extratropical interactions. The approach involves using advanced high-resolution models, integrated observations, and theoretical insights in a virtual "intensive observation period" (May 2008 - October 2009 ) framework. This session is aimed at encouraging the dialogue on the above issues, with contributions sought that highlight observational and modeling advances associated with this ongoing project and its themes. A detailed description of YOTC can be found at [www.ucar.edu/yotc/](http://www.ucar.edu/yotc/)

#### **A55: Ocean-Cloud-Land-Atmosphere Interactions in the Southeastern Pacific**

This session solicits presentations on the ocean and atmosphere dynamics and physics of the southeast Pacific occurring at nano- to planetary scales. The interplay between the land, ocean, and atmosphere is of particular interest. Contributions based on the analysis and modeling of VOCALS, its Regional Experiment, and the Chilean Upwelling Experiment, are of high relevance. Topics include: stratocumulus cloud and precipitation, aerosols, boundary-layer processes and transport, upper ocean processes, ocean coastal currents, eddies and upwelling, atmospheric subsidence variability, regional circulations, and the impact of land monsoons. Presentations including analysis of other major stratocumulus decks are also encouraged.

#### **H74. Water Management under Nonstationary Climate:**

Can Decadal Predictions be useful? The design and management of water systems typically assumes that inflows are stationary in time. However, anthropogenic influences resulting from global climate and landuse changes challenge this assumption. There is a growing scientific consensus that the climate system possesses useful predictability on decadal timescales. This session will focus on the state-of-the-art in decadal climate predictions along with an overview of expected model runs and analysis from the Climate Model Intercomparison Project-5. Innovation in improved climate scenario generation using multiple models and in mapping these scenarios to hydrologic and water management scenarios under a nonstationary climate are also of interest. [http://www.agu.org/meetings/fm10/program/scientific\\_session\\_search.php?show=detail&sessid=402](http://www.agu.org/meetings/fm10/program/scientific_session_search.php?show=detail&sessid=402)

### **AMS Annual Meeting**

*23-27 January 2011 Seattle, Washington*

**DEADLINE FOR ABSTRACTS: 9 August 2010.**

For online abstract submission go to the AMS annual meetings page:  
<http://www.ametsoc.org/MEET/annual>

There are 35 conferences, symposia, and special events of interest planned.

### **Workshop Report on Observed and Model-Simulated Property Changes in the Deep Ocean of the Southern Hemisphere**

*21-23 June, 2010 Hobart, Australia*

Bernadette Sloyan, CMAR Australia; Bronte Tilbrook, CMAR Australia; Gregory C. Johnson, PMEL USA; Sabine, PMEL USA

[http://www.clivar.org/organization/gsop/docs/Report\\_Deep\\_Southern\\_Hemisphere\\_Ocean\\_Change.pdf](http://www.clivar.org/organization/gsop/docs/Report_Deep_Southern_Hemisphere_Ocean_Change.pdf)

# OPPORTUNITIES AND POSITIONS

## Open Tenure Track Radiation Faculty Position at CSU, Ft. Collins, CO, USA

Colorado State University announces a faculty position search and solicits nominations of potential candidates for a tenure-track position in Atmospheric Radiation in the Department of Atmospheric Science at Colorado State University.

The Department offers M.S. and Ph.D. degrees in Atmospheric Science. Its faculty is engaged in a broad range of research areas, spanning geophysical fluid dynamics, global and mesoscale numerical modeling and observations, tropical meteorology, water resources and the hydrologic cycle, biogeochemical cycles, radiation and remote sensing, radar meteorology, and atmospheric chemistry. In addition, there are close ties with the Cooperative Institute for Research in the Atmosphere. Further information on the department, faculty, courses, and facilities is found on its web site: [www.atmos.colostate.edu](http://www.atmos.colostate.edu), and further information about CIRA and its activities can be accessed at [www.cira.colostate.edu](http://www.cira.colostate.edu). In addition to the many opportunities within CSU, the proximity to Boulder continues to foster exciting and productive collaborations with scientists at NCAR and NOAA.

The department expects this new faculty member to be an energetic teacher and researcher. He/She will develop new graduate courses in radiation and radiative transfer, as well as contribute to the teaching of courses in the existing curriculum. They will also be expected to develop strong externally-funded research programs, and to be highly motivated to work on research problems with students and professional staff.

Potential applicants desiring more information should feel free to contact Prof. Sonia Kreidenweis at (970) 491-8350, [sonia\(at\)atmos.colostate.edu](mailto:sonia(at)atmos.colostate.edu) or the Department Head, Prof. Richard Johnson at (970) 491-8321, [johnson\(at\)atmos.colostate.edu](mailto:johnson(at)atmos.colostate.edu).

Applicants should send a full curriculum vitae, a list of at least four references and their contact information (including e-mail addresses), and statements on research and teaching interests to: Prof. Richard H. Johnson, Head, Atmospheric Science Department, Colorado State University, Fort Collins, CO 80523 or to [radiation\(at\)atmos.colostate.edu](mailto:radiation(at)atmos.colostate.edu).

[atmos.colostate.edu](http://atmos.colostate.edu).

The department currently plans to begin application review on August 27, 2010, and will continue until the position is filled.

Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, it conducts 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.

Colorado State University is an equal opportunity/affirmative action employer and complies with all Federal and Colorado State laws, regulations and executive orders regarding affirmative action requirements in all programs. Ethnic minorities, women, and protected class members are encouraged to apply and to so identify themselves.

## CLIMATE SCIENTISTS at the Jet Propulsion Laboratory (JPL): MODELING AND SATELLITE OBSERVATIONS

The Jet Propulsion Laboratory (JPL) invites applications for full-time positions in Climate Sciences. JPL is a NASA Federally Funded Research and Development Center managed by the California Institute of Technology (Caltech). JPL is engaged in exciting new initiatives in climate science, including the creation of a new Center for Climate Sciences, and is seeking qualified candidates for multiple Climate Scientist positions associated with the utilization of satellite observations for climate research. Theme areas of this new center include the influence of the water cycle on climate, the carbon cycle, ocean-climate interactions and cryospheric influences on the climate system.

The overall goal is to exploit satellite observations of the climate system to address critical questions related to modeling regional and global climate, understanding climate feedbacks, predicting climate change, reducing uncertainties in climate models and their projections, and developing new observing system strategies to measure climate forcing and response parameters as well as poorly characterized processes to improve climate prediction. It is anticipated that a significant fraction of the initial research will be performed in the context of the 5th Coupled Model Intercomparison Project (CMIP5) that is being performed in support of the next assessment report of the Intergovernmental Panel on Climate Change (IPCC).

JPL is seeking outstanding candidates in all areas of climate science. Candidates with a PhD in atmospheric, ocean, land or hydrological sciences, engineering, physical or mathematical sciences, are encouraged to apply. Candidates with interests and expertise in climate modeling, satellite observations and/or climate change processes and prediction are particularly encouraged to apply. Successful candidates will be part of the newly created Climate Physics Group and will have the opportunity to shape the new climate activities at JPL.

Enjoy a competitive salary and impressive benefits with a renowned leader in Climate Sciences Research. Please apply online at: <http://Careerlaunch.jpl.nasa.gov/> (Job ID #9579 or 9580). Applications will be reviewed as they are received, and should include a curriculum vitae, a career statement with research objectives and contact information for three professional references. JPL/Caltech is an equal opportunity/affirmative action employer.

### **Meteorologist GS-1340-15 at NOAA CPC**

<http://usajobs.gov/>

Search for MAP: NWS-NCEP-2010-0086 (For Federal employees only)

DE: NWS-NCEP-2010-0087 (The same position but open to anyone)

The incumbent is the Principal Climate Scientist and will (1) serve as the Director of the Climate Test Bed(CTB) at the CPC, and (2) lead and participate in scientific research and provide guidance for an applied research program towards improving climate prediction, climate attribution, and climate monitoring activities at the CPC. As the Director of the CTB, the incumbent will be responsible for administrative and scientific activities including: providing regular briefings about the programmatic

focus and progress related to the CTB; interacting with the CTB Steering Committee and various Science Teams; setting up scientific and transition of research to operations priorities; be cognizant with the latest research advances that show promise for advancing operational climate monitoring and prediction; active participation in the annual "Announcement of Opportunity" related to the CTB; formulation and timely completion of annual milestones related to the CTB; and participation in NOAA's Strategy, Execution and Evaluation(SEE) process as it relates to sustaining and advancing the role of the CTB. In scientific research; the incumbent will interact with CPC colleagues working on projects in diagnostics, analysis and prediction of climate variability on time scales ranging from weather to interannual and decadal and provide the necessary direction for maintaining a coherent prediction research/operations program in the CPC.

### **Position for the NOAA Ocean Acidification Program Office Director at the Climate Program Office**

The incumbent of this position is a senior scientist in the field of ocean acidification. The incumbent is widely recognized by the scientific community through exemplary peer-review publications and or pioneering research endeavors. The incumbent has experience coordinating scientific efforts involving multiple Federal Agencies, academic institutions, and Non- Governmental partners, and is able to communicate with stakeholder communities at all levels. The incumbent is able to write reports to Congress, and respond to Congressional inquiries through written and oral testimonies, or serve as a Government witness in Congressional hearings and expert panels. [http://jobview.usajobs.gov/GetJob.aspx?JobID=89513603&aid=9537514123710&WT.mc\\_n=125](http://jobview.usajobs.gov/GetJob.aspx?JobID=89513603&aid=9537514123710&WT.mc_n=125)

### 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. We will bill the person for the membership fee, which can now be paid via "Pay Pal" on the Internet.

### 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](mailto:porsec.nwra.com) or katsaros at [porsec.nwra.com](mailto:katsaros@porsec.nwra.com).