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## **April 2009 U.S. CLIVAR News-gram**

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### **CALENDAR of UPCOMING EVENTS**

(for more information-[www.usclivar.org/calendar.html](http://www.usclivar.org/calendar.html))

#### **May 2009**

- 4-6: AMOC Open Science Meeting (Annapolis, MD)  
19-22: CLIVAR SSG Meeting (Madrid, Spain)

#### **June 2009**

- 2-5: CLIVAR VAMOS Meeting (Puerto Rico)  
15-19: CLIVAR Global Synthesis and Observations Panel Meeting  
15-18: CCSM Annual Meeting (Breckenridge, CO)  
22-24: NASA Earth System Science at 20 Symposium (Washington, DC)

## **Research Opportunities**

### **1. Announcement of Opportunity - Decision Making Under Uncertainty Collaborative Groups (DMUU) National Science Foundation Full Proposal Deadline: 14 July 2009**

For further information, please go to:

[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf09544](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09544)

The National Science Foundation (NSF) announces a cooperative agreement announcement of opportunity. The Decision Making Under Uncertainty (DMUU) collaborative groups competition offers awards to support teams of researchers who will advance fundamental understanding of decision making under uncertainty for climate change and related long-term environmental risks.

The focus of these collaborative groups will be to generate fundamental new knowledge as well as information and tools that decision makers will find useful to help them incorporate climate change and related long-term environmental risks in their decision making. The focus of these collaborative groups should be to provide new knowledge about how public officials, firms in the private sector, other groups, and/or individuals can incorporate existing knowledge about climate change and related long-term environmental risks into their decisions. In addition to generating societally useful information and tools, DMUU collaborative groups should enhance basic understanding within and across the social and behavioral sciences as well as related science and engineering disciplines.

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### **2. Department of Energy Opportunity Announcement**

**Deadline for proposals: April 27, 2009**

Climate Modeling: Simulating Climate at Regional Scale

<http://www.sc.doe.gov/grants/FAPN09-15.html>

The Office of Biological and Environmental Research (BER) of the Office of Science (SC), U.S. Department of Energy (DOE), hereby announces interest in receiving applications for research grants on the topic of simulating climate at regional scales.

Simulation of global and large-scale features of climate change has improved considerably over the past decade; however, climate models do not yet accurately simulate important features of regional climate variability and change. Applications should describe research projects supporting the development of climate models for getting high fidelity simulations of regional climate.

High risk, high pay-off research ideas that explore innovative new directions are encouraged; they should clearly describe how the proposed ideas have the potential to lead to breakthroughs in modeling of climate at ultra-high spatial resolutions.

### **3. Call for Nominations for 2009 William T. Pecora Award Deadline May 1, 2009**

The William T. Pecora Award is presented annually to individuals or groups that have made outstanding contributions toward understanding the Earth by means of remote sensing. The Department of the Interior (DOI) and the National Aeronautics and Space Administration (NASA) jointly sponsor the award. The award was established in 1974 to honor the memory of Dr. William T. Pecora, former Director of the U.S. Geological Survey and Under Secretary, Department of the Interior. Dr. Pecora was a motivating force behind the establishment of a program for civil remote sensing of the Earth from space. His early vision and support helped establish what we know today as the Landsat satellite program.

The Award Committee must receive nominations for the 2009 award by May 1, 2009.

Instructions for preparing a nomination and other information about the award can be found on the Pecora Award web site: <http://remotesensing.usgs.gov/pecora.php>

Any individual or group working in the field of remote sensing of the Earth is eligible to receive the William T. Pecora Award. An individual award recognizes achievements in the scientific and technical remote sensing community, as well as contributions leading to successful practical applications of remote sensing. Consideration will be given to sustained career achievements or singular contributions of major importance to the field of remote sensing. A group award recognizes a team or part of an organization that has made major breakthroughs in remote sensing science or technology, or developed an innovative application that has a significant impact on the user community or national and international policies. Individual and group achievements should be documented in the open literature.

### **Position Announcements**

#### **4. Associate Program Director positions at NSF**

The Division of Ocean Sciences (OCE), Ocean Section (OS) announces a nationwide search to fill Associate Program Director positions for the Programs of:

- Biological Oceanography (BioOCE),
- Chemical Oceanography (ChemOCE), and
- Physical Oceanography (PhysOCE).

The National Science Foundation (NSF) Associate Program Directors help administer specific research areas. They are NSF program managers who help solicit, receive, and review research and education proposals, make funding recommendations, and administer awards. They are also responsible for interaction with other Federal Agencies forming and guiding interagency collaborations and for service to Foundation-wide activities.

NSF program managers bear the primary responsibility for carrying out the Foundation's overall mission to support innovative and merit-evaluated activities in fundamental research and education that contribute to the nation's technological strength, security and welfare. The positions require a commitment to high standards of intellectualism and ethical conduct, a considerable breadth of interest, receptivity to new ideas, a strong sense of fairness, good judgment, and a high degree of personal integrity.

These positions are open until filled. Formal consideration of interested applicants will begin **May 1, 2009** and will continue until a selection is made. Persons wishing to apply for this position are referred to the Section Head (listed below) and to the Divisional webpage <http://www.nsf.gov/div/index.jsp?div=OCE>, for a description of the Programs. Interested persons are also encouraged to contact the Program Director below, who are also listed on the program web pages, for more information.

#### **5. California Institute of Technology – Postdoctoral position in Ocean Circulation and Sea Level Rise**

The research will involve analysis of satellite and in situ data to investigate the causes of sea level rise, ocean warming, changes in ocean heat transport and the ocean's general circulation, particularly the Atlantic Meridional Overturning Circulation. Dr. Josh Willis, in JPL's Climate, Ocean, and Solid Earth Science section will serve as JPL postdoctoral advisor to the selected candidate. The appointee will be guided by the JPL advisor to ensure that the research work will result in publications in the open literature.

Candidates should have a recent PhD in oceanography or remote sensing with a strong background in data analysis. Experience analyzing oceanographic and/or satellite datasets is highly desirable.

Please send a letter describing your research interests, a curriculum vitae, and a list of three references (with telephone numbers, postal and email address) to: Josh Willis M/S 300-323 Jet Propulsion Laboratory 4800 Oak Grove Dr. Pasadena, CA 91109 (818) 354-0881 [joshua.k.willis@jpl.nasa.gov](mailto:joshua.k.willis@jpl.nasa.gov)

#### **6. Postdoctoral Position at Florida State University**

The Center for Ocean-Atmospheric Predictions Studies (COAPS) at the Florida State University (FSU) invites applications for a postdoctoral position in the area of scientific analysis of phenomena in coupled ocean-atmospheric models and satellite data. The duties will include but are not limited to, working with senior scientists to design studies of coupled ocean-atmosphere processes, including but not limited to tropical instability waves and assist training graduate and undergraduate students in analysis. The successful applicant must be proficient in a LINUX environment and have a strong working knowledge of FORTRAN or C. The applicant must be able to either process satellite data or process data from the coupled model runs, and be willing to become proficient in both these areas. Preferred knowledge and skills include familiarity with statistical data analysis and good oral and written communication skills. Familiarity with atmospheric boundary-layer processes is also helpful. A Ph.D. in Meteorology, Oceanography or a related physical science is required.

Applications will be reviewed until the position is filled. A curriculum vitae, a statement of research interests, and contact information for three letters of recommendation should be sent electronically to: Mark Bourassa ([bourassa@coaps.fsu.edu](mailto:bourassa@coaps.fsu.edu)).

#### **7. NOAA Postdoctoral position on Impact of Climate on Air Quality**

A post-doctoral research scientist position focused on the *impact of climate on air quality* is available through the University of Maryland, Baltimore County Goddard Earth Sciences and Technology (GEST) Center, U.S.A. The preferred location for this post is at the National Oceanic and Atmospheric Administration (NOAA) Geophysical Fluid Dynamics Laboratory (GFDL) in Princeton, NJ, U.S.A.

## **Description**

A post-doctoral research scientist is needed to investigate interaction between climate and air quality in the GFDL chemistry-climate model, a fully coupled atmosphere-ocean-ice-land GCM including stratospheric and tropospheric (aerosol and gas-phase) chemistry. This work is expected to be conducted in close collaboration with scientists at NASA Goddard Space Flight Center (GSFC) and represents a joint effort between GSFC and GFDL to improve climate-air quality simulations in the current generation of chemistry-climate models. The candidate should have a strong interest in identifying constraints on relationships between air quality (ozone and aerosols) and meteorology available from in-situ measurements and satellites over recent decades, and using those constraints to evaluate and improve the simulation of interannual variability and trends. The GFDL model includes a dynamic vegetation model, enabling exploration of impacts from the biosphere on air quality (e.g., fires, biogenic emissions, land-use). A major endeavor will be to compare changes in regional air quality (including over the United States) projected for the next century under several scenarios (e.g., IPCC-AR5) for changes in climate and emissions of trace gases and aerosols and to identify key processes controlling how air quality responds to climate.

## **Requirements**

The position requires a Ph.D. in Atmospheric Sciences, Atmospheric Chemistry, or related fields. Experience in numerical modeling and/or data analysis of in-situ measurements and satellite products is highly desirable. Computing skills such as programming in Fortran, IDL or other visualization software would be an asset.

## **To apply**

To begin the application process, please send your CV to [Arlene.Fiore@noaa.gov](mailto:Arlene.Fiore@noaa.gov) and [Bryan.N.Duncan@nasa.gov](mailto:Bryan.N.Duncan@nasa.gov).

## **8. University of Texas Postdoctoral position**

Job Opportunity at The University of Texas at Austin Jackson School of Geosciences, Department of Geological Sciences Post-Doctoral Fellow in Climate System Science A post-doctoral position is available working with Professor Kerry H. Cook on abrupt climate change problems using a regional climate system model that couples atmosphere, land, and ocean.

This is a one-year position, renewable for an additional year depending on performance and the availability of funds. Applicants should have an earned Ph.D. in atmospheric or a related field, such as oceanography or climate science. Experience in climate modeling and climate analysis is required, including computational skill and a demonstrated record of publication. Applicants should not have held a permanent position since receiving the Ph.D. The start date is approximately **September 1, 2009**, and the starting salary is \$50,000. Interested applicants should email a CV and three references (name and email) to Tinley Hald at [thald@jsg.utexas.edu](mailto:thald@jsg.utexas.edu).

## **9. Inter-American Institute for Global Change Research (IAI) Assistant Director**

The position will be filled as soon as possible for a 3 year renewable term, and is based at the IAI Directorate, located on the campus of the Instituto Nacional de Pesquisas Espaciais (INPE) in São José dos Campos, São Paulo, Brazil. For details visit our website [www.iai.int](http://www.iai.int)

## **10. New Visiting Scientist Program at UCAR**

In cooperation with the Air Force Weather Agency (AFWA), at the NASA-NOAA- DoD Joint Center for Satellite Data Assimilation (JCSDA) in Camp Springs, Md. Applications are being sought for research scientists interested in advancing satellite data assimilation techniques in

numerical weather prediction (NWP) and land surface modeling, and transitioning these improvements into the operational community-supported weather models run at the AFWA.

For further details and application information see:  
[http://www.vsp.ucar.edu/opportunities/AFWA\\_JCSDA.html](http://www.vsp.ucar.edu/opportunities/AFWA_JCSDA.html)

### **Meetings and Workshops**

#### **11. NASA's Earth Science Division 3 day symposium**

NASA's Earth Science Division has planned a three-day symposium to examine our scientific accomplishments after twenty years of remote sensing of the Earth, while considering future plans and challenges for the next twenty years of Earth System Science at NASA.

Please participate in the symposium entitled, "NASA Earth System Science at 20: Accomplishments, Plans, and Challenges" to take place at the **National Academy of Sciences located at 2100 C St. N.W., Washington, D.C., USA) from 22-24 June 2009**. The National Academy of Sciences' Space Studies Board, Ocean Studies Board, and Board on Earth Sciences and Resources will co-host the event. The meeting has been organized by a planning committee from the science community with backgrounds that span the breadth of science and engineering that have been part of NASA Earth Science's history.

The Symposium will consider the National Research Council's roadmap for the next decade of Earth system science, the 2007 Decadal Survey "Earth Science and Applications from Space: A Community Assessment and Strategy for the Future," and the report "Earth Observations from Space: The First 50 Years of Scientific Achievement" and consider what we have we learned, where do the foremost research challenges for the future lie and how well are we prepared to meet them.

#### **12. 2010 Ocean Sciences Meeting - Call for Sessions**

"From Observation to Prediction in the 21st Century" is the theme for the 2010 Ocean Sciences Meeting which will be held February 22-26, 2010 in Portland Oregon.

The Call for Sessions has just been posted - submissions are due May 29, 2009. For more information, visit <http://www.agu.org/meetings/os10/>.

#### **13. GEWEX Conference – Abstract Deadline**

The final deadline for submitting abstracts to the GEWEX Conference: "Water in a Changing Climate: Progress in Land-Atmosphere Interactions and Energy/Water Cycle Research" is now **15 April 2009**.

[http://www.gewex.org/2009gewex\\_ileaps\\_conf\\_abstracts.html](http://www.gewex.org/2009gewex_ileaps_conf_abstracts.html)

Abstracts covering work on the themes for the 6th International Scientific Conference on the Global Energy and Water Cycle (GEWEX), the 2nd iLEAPS Science Conference (24-28 August, 2009), and the Joint GEWEX/iLEAPS Sessions will be accepted for oral or poster presentations. Potential contributors must submit an abstract for consideration.

Extended abstracts are being accepted for the iLEAPS Science Conference sessions. Text may be submitted in Microsoft Word .doc or .rtf formats. See the iLEAPS template for submitting abstracts. If you have any questions regarding submitting an abstract for the iLEAPS Conference, please send an e-mail to [anni.reissell@helsinki.fi](mailto:anni.reissell@helsinki.fi).

#### **14. National Center for Atmospheric Research Third Biannual Workshop on Climate and Health July 13-17, 2009 (Boulder, CO) Topic: Heat Stress, Air Pollution, and Climate Change**

The 2009 NCAR Workshop on Climate and Health will focus on two related atmospheric hazards for human health, the individual and combined effects of heat waves and air pollution. The purpose of the workshop is to train young researchers (graduate students, post-docs and early career scientists and faculty) on how to develop robust interdisciplinary research projects in the complex area of climate and health. The week-long workshop will include lectures on relevant topics in climate and climate change and in public health and human health, vulnerability studies, urban studies, statistics, and special tools for analysis (e.g., GIS). In addition, a few successful research projects will be highlighted, providing detailed analyses of the methods and components of the projects that led to their success. There also will be hands on activities related to project development. To apply go to <<http://www.isse.ucar.edu/climatehealth/2009>>. While mainly a North American based workshop, some international (other than North America) applicants will be selected. Graduate students, post-docs, and early career faculty with interests in health and climate are encouraged to apply.

#### **15. RAPID ANNUAL MEETING 2009**

The RAPID Annual Meeting 2009 will take place in Edinburgh 6 - 9 July. Information about the meeting can be found on the RAPID-WATCH website at <http://www.noc.soton.ac.uk/rapid/rw/meetings/am09.php>

##### Programme outline

This year the meeting consists of two main sessions:

- \* 6 July mid-day - 7 July mid-day: RAPID-WATCH meeting limited to the RAPID-WATCH projects and the RAPID-WATCH Programme Advisory Group
- \* 7 July mid-day - 9 July mid-day: RAPID science meeting with oral and poster presentations on topics related to the Atlantic Meridional Overturning Circulation (AMOC) and its role in Rapid Climate Change.

Abstract submission: Abstracts should be submitted on-line, using the abstract submission form on the RAPID-WATCH website. The deadline for submissions is 11th May.

Registration: To register for the meeting, please visit the registration page on the NERC website. Registration will open soon, and can be accessed from the RAPID-WATCH website. The deadline for registrations is 29th May. There is no registration fee.

Travel and subsistence: Participants from outside the UK are expected to cover their own travel and subsistence.

#### **ANNOUNCEMENTS:**

- **NSF Recovery Funds Notice**

National Science Foundation Director Arden Bement has just released "Important Notice to Presidents of Universities and Colleges and Heads of Other National Science Foundation Awardee Organizations" providing further details about how the foundation will use this funding. Director Bement explains:

"NSF currently has many highly rated proposals that it has not been able to fund. For this reason, NSF is planning to use the majority of the \$2 billion available in Research and Related Activities for proposals that are already in house and will be reviewed and/or awarded prior to September 30, 2009.

"The Foundation also expects to expeditiously award funds as specified in the Recovery Act for: the Math and Science Partnership program (funded at \$25 million); the Robert Noyce Teacher Scholarship Program (funded at \$60 million); the Major Research Equipment and Facilities Construction Account (funded at \$400 million); the Academic Research Infrastructure (ARI) program (funded at \$200 million); and the Science Masters program, (funded at \$15 million). Solicitations for these latter two programs will be posted this spring.

"NSF will post a solicitation this spring for the Major Research Instrumentation Program (MRI) in order to make a sufficient number of awards to utilize the \$300 million provided in the legislation. The Foundation currently anticipates that no other solicitations will be posted that are solely in response to the Recovery Act."

The notice has additional important information under "Funding Prioritization." The notice can be read in full at <http://www.nsf.gov/pubs/issuances/in131.pdf>

- **International Arctic Science Committee (ISAC) Draft Science Plan Now Available**  
To view the Science Plan, please go to <http://www.arcticchange.org>. Reviews and comments will be accepted through Friday, 1 May 2009.

The intent of the ISAC Science Plan is to outline an open-ended international research program and framework for a comprehensive study of arctic environmental change in all its dimensions. ISAC builds on existing efforts to further understand past, present, and expected arctic change and carry over new insights into the public and the decision-making arenas. ISAC is an iterative program growing from the successes of past arctic science programs and those initiated during the International Polar Year (IPY). The science plan provides background information on recent arctic changes and frames science questions to guide integrated research. ISAC includes both basic and applied science and connects with national and international efforts to observe, understand, and respond to pan-arctic environmental change.

- **VAMOS newsletter No. 5 is available**  
**[http://www.clivar.org/organization/vamos/Publications/vamos\\_nl5.pdf](http://www.clivar.org/organization/vamos/Publications/vamos_nl5.pdf).**  
Starting with this issue, and due to budgetary reasons, the printed version of the VAMOS Newsletter will appear as a supplement of CLIVAR Exchanges. The full electronic version of Exchanges 48 with the VAMOS Newsletter can be downloaded at <http://eprints.soton.ac.uk/65635/01/Exch48VAMOS.pdf>