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February 2009 U.S. CLIVAR News-gram

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CALENDAR of UPCOMING EVENTS

(for more information-www.usclivar.org/calendar.html)

March 2009

- 25-27: 3rd ARGO Science Workshop (Hangzhou, China)
24-27: NOAA Climate Predictions Applications Workshop (Norman, OK)
25-26: Workshop on El Nino and Climate Change (Perth, Australia)
27-28: CLIVAR Pacific Panel Meeting (Perth, Australia)

April 2009

- 6-9: JSC Meeting (University of Maryland – College Park)
27-29: Workshop on Ocean Mesoscale Eddies (Exeter, UK)

Research Opportunities

1. **National Oceanographic Partnership Program - Broad Agency Announcement**
<http://www.onr.navy.mil/02/baa/docs/09-012.pdf>

On behalf of the National Oceanographic Partnership Program (NOPP) and The President's Interagency Committee on Ocean Science and Resource Management Integration (ICOSRMI), the Office of Naval Research (ONR) solicits research proposals meeting the goal and purpose of

the Partnership Program outlined in Title II, subtitle E, of Public Law 104-201. Team efforts are required among at least two of the following three sectors: academia, industry (including Non-Governmental Organizations - NGOs), and government (including State and Local)

Research proposals are solicited for three topics: Topic 1. Improving Wind Wave Predictions: Global to regional Scales; Topic 2. Sensors for Measurement of Biological, Bio-Optical, Optical, or Chemical Properties of the Ocean; and Topic 3: Improving Tropical Cyclone Intensity Forecasting.

Team efforts are required among at least two of the following three sectors:

- academia,
- industry (including Non-Governmental Organizations - NGOs), and
- government (including State and Local)

Full Proposals are due by 10 April 2009, 4:00PM (Washington D.C. Local Time)

2. RESEARCH OPPORTUNITIES IN SPACE AND EARTH SCIENCES (ROSES) 2009

ROSES will be available on or about February 13, 2009, by opening the NASA Research Opportunities homepage at <http://nspires.nasaprs.com/> and then linking through the menu listings "Solicitations" to "Open Solicitations." This NASA Research Announcement (NRA) solicits proposals for supporting basic and applied research and technology across a broad range of Earth and space science program elements relevant to one or more of the following NASA Research Programs: Earth Science, Heliophysics, Planetary Science, and Astrophysics.

This ROSES NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, stratospheric balloon, and suborbital rocket investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data.

Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years) periods. Organizations of every type, domestic and foreign, Government and private, for profit and not-for-profit, may submit proposals without restriction on number or teaming arrangements. Note that it is NASA policy that all investigations involving non-U.S. organizations will be conducted on the basis of no exchange of funds.

Proposal due dates are scheduled starting on May 1, 2009, and continue through April 30, 2010. Electronically submitted Notices of Intent to propose are requested for most program elements, with the first such due date being March 13, 2009. Electronic submission of proposals is required by the respective due dates for each program element and must be submitted by an authorized official of the proposing organization. Electronic proposals may be submitted via the NASA proposal data system NSPIRES or via Grants.gov. Every organization that intends to submit a proposal in response to this NRA must be registered with NSPIRES; organizations that intend to submit proposals via Grants.gov must be registered with Grants.gov in addition to being registered with NSPIRES. Such registration must identify the authorized organizational representative(s) who will submit the electronic proposal. All principal investigators and other participants (e.g. co-investigators) must be registered in NSPIRES regardless of submission system. Potential proposers and proposing organizations are urged to access the system(s) well in advance of the proposal due date(s) of interest to familiarize themselves with its structure and enter the requested information.

Further information about specific program elements may be obtained from the individual Program Officers listed in the Summary of Key Information for each program element in this NRA, while questions concerning general NRA policies and procedures may be directed to Dr. Max Bernstein, Lead for Research, Science Mission Directorate, NASA Headquarters, Washington, DC 20546-0001; E-mail: sara@nasa.gov; Telephone: 202-358-0879.

Position Announcements

3. University of Virginia associate professor in climate dynamics

The Department of Environmental Sciences at the University of Virginia invites applications for a full time, nine-month, tenure-track assistant professorship in climate dynamics. The Department is an interdisciplinary community of scientists representing the atmospheric sciences, ecology, geosciences, and hydrology. The Department offers B.S., B.A., M.S., M.A. and Ph.D. degrees. Prospective candidates should review the Departmental web site (<http://www.evsc.virginia.edu>) prior to applying.

The successful candidate is expected to develop programs in research and teaching at the undergraduate and graduate levels and to participate in teaching our undergraduate and graduate atmospheric sciences curriculum. We encourage applications from scientists whose research, teaching strengths, and interests show promise for complementing the unique interdisciplinary foci of the Department. The ideal candidate will have an established record of (or the potential for) interaction with hydrologists, geoscientists, and ecologists.

A Ph.D. in climatology, atmospheric sciences, or a closely allied discipline is required. Applicants must provide evidence of high-quality research and a strong commitment to teaching. Established research credentials in the dynamics of Earth's climate are required. Suggested research foci include, but are not limited to: ENSO dynamics and air-sea interactions, atmospheric teleconnections, and impacts of internal or external radiative forcing on Earth's climate.

To apply, please complete a Candidate Profile on-line and then, attach a cover letter, curriculum vitae, statement of research and teaching interests, and the contact information for three references through Jobs@UVA (<https://jobs.virginia.edu>); search on Posting Number 0602844. The review of applications will begin on February 7, 2009; however, the position will remain open until filled.

4. Executive Director - International Human Dimensions Programme on Global Environmental Change (IHDP)

<http://www.icsu.org/index.php>

Applications to: IHDP Executive Director Search Committee, c/o Office of the Rector, United Nations University Headquarters, 53-70 Jingumae 5- chome, Shibuya-ku Tokyo 150-8925, Japan. (Fax: 81-3-3499-2828). Nominations or letters of application, including full curriculum vitae (with publications list) and names and addresses and fax numbers of three referees should clearly indicate the above reference number. A covering letter setting out how your qualifications and experience match the requirements of the position must also accompany the application. Email applications/nominations may be sent to: IHDPED@hq.unu.edu. All applications/nominations will be acknowledged. Application deadline: **31 March 2009**

The position is to be filled by **1 July 2009** or as soon as possible thereafter (subject to negotiation). Remuneration: Approximate net salary: US\$122,600 p.a. (single status) - US\$133,000 p.a. (with dependants), including post adjustment. Post adjustment subject to change. Applications from suitably qualified women candidates are particularly encouraged. The Rector reserves the right to appoint a candidate to a level below that advertised.

5. Project Scientist, IPCC Working Group II Technical Support Unit

Working Group II of the Intergovernmental Panel on Climate Change (IPCC) assesses the vulnerability of socio-economic and natural systems to climate change, potential negative and positive consequences, and options for adapting to it. A Technical Support Unit (TSU) provides technical and administrative services in support of assessment deliverables. The TSU is located at the Carnegie Institution for Science in Stanford, California, USA.

As a core member of the TSU, a Project Scientist is sought to provide scientific expertise to both the IPCC WG2 co-chairs and to the Task Group on Data and Scenario Support for Impact and Climate Analysis (TGICA). Emphasis will be on scoping, preparing, and reviewing the WG2 contribution to the Fifth Assessment Report (AR5) and any Special Reports agreed upon by the Panel in response to specific requests of the United Nations Framework Convention on Climate Change (UNFCCC). The incumbent will serve as TSU focal point for support of the TGICA work program, including the New Scenarios development process, ongoing data archiving and distribution mechanisms, and training and capacity building.

Requires a Ph.D. in social or natural science discipline and 3 or more years, experience relevant to the development and use of scenarios in assessment of impacts, adaptation, and vulnerability to global climate change. The specific academic discipline of the successful applicant may be less important than practical training and experience in interdisciplinary climate change research.

This is a term position **through 30 September 2009**, with possibility of annual extensions through FY2014. Relocation expenses will be covered. To view the complete job description and apply, visit <http://www.fin.ucar.edu/hr/employment> (reference job #9068 under (E)Current Job Openings/Scientific,). Initial consideration will be given to applications received prior to 2/20/2008. Thereafter, applications will be reviewed on an as-needed basis. We value diversity. AA/EOE

6. Revelle Chair at the Scripps Institution of Oceanography

Applications are invited at the Associate or Full Professor level for the newly endowed Revelle Chair in Environmental Science. This faculty position builds on the legacy of Roger Revelle as a leader in the study of global environmental change, and will be filled by an outstanding climate

scientist in any field related to the physical, chemical, or biological basis of climate change. We seek an interdisciplinary scientist and educator with demonstrated ability to mentor graduate students and junior colleagues to establish a vigorous research program and to provide leadership in climate-related issues within Scripps Oceanography and UC San Diego. Applicants are encouraged from all areas of climate studies, particularly those whose research crosses disciplinary boundaries. Examples are: climate dynamics and modeling; atmospheric physics and chemistry; ocean acidification; biological consequences of climate change; and paleoclimate.

For the complete listing, please see

http://sio.ucsd.edu/About/Resources/Employment/Faculty_Positions/

Meetings and Workshops

7. Past Global Changes (PAGES) - 3rd Open Science Meeting

Oregon State University Corvallis, Oregon

8-11 July 2009

Abstract Submission Deadline: Monday, 16 March 2009

For further information, please go to:

<http://www.pages-osm.org/>

A Young Scientists Meeting will be held alongside the Open Science Meeting from 6-7 July. The meeting aims to support the development of young paleoscientists by providing the opportunity to advance their scientific skills and to network with colleagues, leading senior scientists and program representatives.

The meetings will be organized around open poster sessions and invited oral presentations, as well as "hot topic" discussions.

Poster session topics will include:

- Climate Forcings
- Chronology
- Regional Climate Dynamics
- Proxy Development, Calibration, and Validation 5. Global-Scale Earth System Dynamics
- Modeling in Paleoscience
- Past Human-Climate-Ecosystem Interactions 8. Data Management

Oral session topics will include:

- The Global Hydrological Cycle and Abrupt Changes 2. Reconstructing Climate Modes
- Chronology in Paleoscience
- Climate-Biogeochemistry Interactions
- Land Cover, Water, and Sediment: Regional and Global Synthesis
- Proxy Development, Calibration, and Validation
- Regional Climate Reconstructions: Filling the Gaps
- Past Perspectives on Modern Human-Environment Interactions
- Modeling
- Origin of Interglacial Climate Variability
- Stability of Polar Ice Sheets and Sea Level

8. GEWEX 6th International Scientific Conference on the Global Energy and Water Cycle Melbourne, Australia on 24-28 August 2009

Abstracts are requested for sessions on:

--Sixth International Scientific Conference on the Global Energy and Water Cycle

--Second Integrated Land Ecosystem-Atmosphere Study Science Conference

The overall theme of both conferences is: Water in a Changing Climate--Progress in Land-Atmosphere Interactions and Energy/Water Cycle Research. The conferences will hold joint sessions on three common themes with keynote talks, oral and poster presentations. The parallel conferences will have three joint sessions that broadly cover the following themes: (1) Land in the climate system; (2) Aerosol, cloud, precipitation, climate interactions; and (3) Future generation of integrated observation and modelling systems. Complete information about the conferences and sessions can be found at: http://gewex.org/2009gewex_ileaps_conf.html
To submit an abstract: http://gewex.org/2009gewex_ileaps_conf_abstracts.html

It is expected that registration will open in February 2009.

9. International GHRSSST Data Users Symposium

The Group for High-Resolution Sea Surface Temperature (GHRSSST) project provides a new generation of uniformly processed satellite SST data and global high-resolution (<10km) SST products to the operational oceanographic, meteorological, climate and general scientific community. More information on the project is at <http://www.ghrsst-pp.org/>. The symposium will update SST data users on satellite data sets and the current status of blended products. We are requesting presentations on the latest research and/or applications using GHRSSST data. Topics may include, but are not limited to: oceanographic research, air-sea interactions, coral reefs, ocean modeling and forecasting, maritime pollution monitoring, coastal environmental protecting and management, fisheries, marine park management, sea ice, ocean circulation, and data assimilation systems. The two day symposium aims to assemble a diverse group of scientists to discuss recent advances in the knowledge of processes related to sea surface temperature and foster enhanced collaboration between GHRSSST data users and research groups.

The GHRSSST Data Users Symposium will be held at the Vineyard Creek Hyatt in Santa Rosa, CA, USA, from 28 to 29 May 2009. A detailed agenda will be established and circulated later, however we suggest that an early reservation is made for hotels, as Santa Rosa is a popular travel destination. Deadline for registration is **31 January 2009**. More information at: <https://www.ghrsst-pp.org/International-GHRSSST-Data-Users-Symposium-Event.htm>

Student grants are available. Please see the website above, for more details.

ANNOUNCEMENTS:

- **The Research Priorities Report from the Ocean in a High CO₂ World-II symposium and The Monaco Declaration released**
IOC, SCOR, IGBP, and IAEA-MEL are pleased to announce that The Research Priorities Report from the Ocean in a High CO₂ World-II symposium and The Monaco Declaration were released this morning during a press conference at the ASLO conference in Nice. The documents can be downloaded at: www.ocean-acidification.net

Also available are press releases in English, French, and Spanish.

- **Workshop report of the World Modeling Summit for Climate Prediction is available**
http://wcrp.wmo.int/documents/WCRP_WorldModellingSummit_Jan2009.pdf
- **CCSP Announces completion of 21 Synthesis and Assessment Products**
All reports are available for download at: <http://www.climate-science.gov/>

- 1.1 Temperature trends in the lower atmosphere: Steps for understanding and reconciling differences
 - 1.2 Past climate variability and change in the Arctic and at high latitudes
 - 1.3 Re-analyses of historical climate data for key atmospheric features: Implications for attribution of causes of observed change
 - 2.1 Scenarios of Greenhouse Gas Emissions and Atmospheric Concentrations and Review of Integrated Scenario Development and Application
 - 2.2 North American carbon budget and implications for the global carbon cycle.
 - 2.3 Atmospheric Aerosol Properties and Climate Impacts
 - 2.4 Trends in emissions of ozone-depleting substances, ozone layer recovery, and implications for ultraviolet radiation exposure
 - 3.1 Climate Models: An Assessment of Strengths and Limitations
 - 3.2 Climate Projections Based on Emissions Scenarios for Long-Lived and Short-Lived Radiatively Active Gases and Aerosols
 - 3.3 Weather and climate extremes in a changing climate.
 - 3.4 Abrupt climate change
 - 4.1 Coastal Sensitivity to Sea-Level Rise: A Focus on the Mid-Atlantic Region
 - 4.2 Thresholds of Climate Change in Ecosystems
 - 4.3 The effects of climate change on agriculture, land resources, water resources, and biodiversity
 - 4.4 Preliminary review of adaptation options for climate-sensitive ecosystems and resources
 - 4.5 Effects of climate change on energy production and use in the United States.
 - 4.6 Analyses of the effects of global change on human health and welfare and human systems
 - 4.7 Impacts of Climate Variability and Change on Transportation Systems and Infrastructure -- Gulf Coast Study
 - 5.1 Uses and limitations of observations, data, forecasts, and other projections in decision support for selected sectors and regions
 - 5.2 Best practice approaches for characterizing, communicating, and incorporating scientific uncertainty in climate decision making
 - 5.3 Decision-support experiments and evaluations using seasonal to interannual forecasts and observational data
- **"Unified Synthesis Report" is open for public comment**
http://www.climate-science-watch.org/index.php/csw/details/new_and_much_improved_unified_synthesis_report/
 The U.S. Climate Change Science Program has released a second iteration of a report that synthesizes and describes in lay terms the current scientific understanding of global climate disruption. Major improvements over a heavily criticized initial draft released in July 2008 have been made by a set of authors and a review team comprised of an impressive group of scientists and experts with impeccable credentials. We encourage readers to review this report and submit comments by the February 27 deadline. We hope the Obama administration will publish it expeditiously and embrace it as a significant assessment of the potential consequences of climate change for the United States.