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January 2010 U.S. CLIVAR News-gram

Table of Contents

i – Calendar of Upcoming Events

Research Opportunities

1. ROSES-09 Amendment 24: New proposal opportunity in Appendix A.41: The Science of Terra and Aqua
2. ROSES-09 Amendment 27: New proposal opportunity in Appendix A.24: Remote Sensing Theory for Earth Science
3. NSF Pan-American Advanced Studies Institutes Program

Position Announcements

4. Postdoctoral Research Associates in Climate Science at the University of Washington, Seattle
5. Research Scientist in Ocean Science and Remote Sensing at NASA JPL
6. Executive Director of the Integrated Research on Disaster Risk (IRDR)
7. Physical Oceanographer at British Antarctic Survey
8. Director of the Climate and Environmental Sciences Division in the Office of Biological and Environmental Research at the US Department of Energy

Meetings and Workshops

9. 11th International Meeting on Statistical Climatology
10. SCAR Open Science Conference
11. 2010 SORCE Science Meeting – Call for Abstracts
12. Weather and Society Integrated Studies Caribbean Workshop

ANNOUNCEMENTS

- **NSF Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring**
- **International Council for Science (ICSU) requests input**
- **WCRP news on climate research are now available in e-zine N°16**

CALENDAR of UPCOMING EVENTS

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

February 2010

22-26: AGU Ocean Sciences Meeting (Portland, OR)

March 2010

16-19: State of the Arctic Conference (Miami, FL)

17-19: US CLIVAR High Latitude Surface Fluxes Workshop (Boulder, CO)

Research Opportunities

1. ROSES-09 Amendment 24: New proposal opportunity in Appendix A.41: The Science of Terra and Aqua

This amendment establishes a new program element in Appendix A.41 entitled "The Science of Terra and Aqua." This new program element solicits proposals to undertake significant studies through the use of data and derived products from two of the Earth Observing System (EOS) satellites, namely Terra and Aqua, and their measurement sensors. It represents a continuation of the research aspects of the EOS Instrument Teams for these satellites, emphasizes new opportunities for scientists to analyze and exploit EOS data, as well as develop new products by combining multi-sensor and multi-platform data or by developing an innovative approach to data retrievals. This solicitation offers investigators an opportunity to conduct integrative research projects using the new data and products resulting from these satellites, and to become involved in the utilization of EOS data to provide answers to NASA's Earth Science Research questions.

Notices of Intent to propose are due January 28, 2010. Proposals are due March 25, 2010.

You can now subscribe to an RSS feed for amendments, clarifications and corrections to ROSES at <http://nasascience.nasa.gov/researchers/sara/grant-solicitations/roses-2009/RSS>

Further information about the Science of Terra and Aqua program element is available from Dr. Lucia Tsaoussi, Earth Science Division, Science Mission Directorate, National Aeronautics and Space Administration, Washington, DC 20546-0001, Telephone: (202) 358-4471, E-mail: Lucia.S.Tsaoussi@nasa.gov, or from Dr. Paula Bontempi, Earth Science Division, Science Mission Directorate, National Aeronautics and Space Administration, Washington, DC 20546-0001; Telephone: (202) 358-1508; Email: paula.bontempi@nasa.gov.

2. ROSES-09 Amendment 27: New proposal opportunity in Appendix A.24: Remote Sensing Theory for Earth Science

Remote sensing science to establish a theoretical basis for measuring Earth surface properties using reflected, emitted, and scattered electromagnetic radiation and to develop the methodologies and technical approaches to analyze and interpret such measurements lies at the heart of NASA's mission. Remote sensing science investigations are needed to prepare for new remote sensing measurements of the Earth from space and to ascertain the readiness of candidate technologies for obtaining them. The objective of the Remote Sensing Theory (RST) program element, a new multidisciplinary/interdisciplinary program, is to support fundamental scientific advances in remote sensing theory and radiative transfer, including advancement of retrieval algorithms to be used for space-based remote sensing of the Earth's atmosphere, oceans, biosphere, cryosphere, land surface, and/or Earth interior. Specific areas of interest include, but are not limited to, theoretical algorithm advances, data fusion, and advanced corrections.

Notices of Intent to propose are due February 26, 2010. Proposals are due April 30, 2010.

You can now subscribe to an RSS feed for amendments, clarifications and corrections to ROSES at <http://nasascience.nasa.gov/researchers/sara/grant-solicitations/roses-2009/RSS>.

Questions concerning the Remote Sensing Theory for Earth Science program may be addressed to Dr. Lucia Tsaoussi, Earth Science Division, Science Mission Directorate, NASA Headquarters, Washington, DC 20546-0001; Telephone: (202) 358-4471; E-mail: Lucia.S.Tsaoussi@nasa.gov.

3. NSF Pan-American Advanced Studies Institutes Program

http://www.nsf.gov/pubs/2010/nsf10517/nsf10517.htm?WT.mc_id=USNSF_179

The Pan-American Advanced Studies Institutes (PASI) Program is a jointly supported initiative between the Department of Energy (DOE) and the National Science Foundation (NSF). Pan-American Advanced Studies Institutes are short courses ranging in length from ten days to one month, involving lectures, demonstrations, research seminars, and discussions at the advanced graduate, post-doctoral, and junior faculty level.

PASIs aim to disseminate advanced scientific and engineering knowledge and stimulate training and cooperation among researchers of the Americas in the mathematical, physical, and biological sciences, the geosciences, the computer and information sciences, and the engineering fields. Proposals in other areas funded by NSF may be considered on an ad hoc basis; in this case, lead investigators must consult with the PASI Program before proposal submission. Whenever feasible, an interdisciplinary approach is recommended.

Proposals due March 19, 2010

Position Announcements

4. Postdoctoral Research Associates in Climate Science at the University of Washington, Seattle

The Joint Institute for the Study of the Atmosphere and Ocean ([JISAO](#)) and the [Program on Climate Change](#) (PCC) at the University of Washington are seeking Post-doctoral Research Associates with research interests in the science of climate and climate change. JISAO and PCC support a diversity of climate interests including climate forcing and feedbacks, large-scale atmospheric-ocean interaction, biogeochemical cycles, high-latitude climate, and paleoclimate studies.

At least three positions will be filled. Terms of appointment are for one (1) year, renewable for a second year, subject to approval and availability of funding. Positions are not project specific, although successful applicants are expected to define his/her research goals within the broad program areas of JISAO and/or the PCC and are strongly encouraged to collaborate with University of Washington and NOAA PMEL scientists.

Applicants must hold a recent Ph.D. and are asked to submit (1) a curriculum vitae, (2) a publication list, (3) a brief mini-proposal (no more than 5 pages, double-spaced) outlining research and faculty collaborations to be pursued during a two-year tenure at the University of Washington and (4) a list of four (4) references. **Closing date is March 28, 2008.** Material should be sent to Director, Joint Institute for Study of Atmosphere and Ocean, Attn: Marjorie Ann Reeves, Box 354235, University of Washington, Seattle, WA 98195; Fax: 206-685-3397; email: <mar@atmos.washington.edu>. The University of Washington is an equal opportunity/affirmative action employer.

5. Research Scientist in Ocean Science and Remote Sensing at NASA JPL

The Jet Propulsion Laboratory invites applications for a full-time position in the field of satellite oceanography and ocean remote sensing. The applicant will join a broad-based team of researchers in oceanography, who analyze spaceborne and complementary in-situ observations,

carry out ocean modeling and data assimilation, support existing ocean satellite missions and help develop new remote sensing techniques for future satellite oceanography missions.

The successful applicant should have a Ph.D. degree plus a minimum of 2 years of research experience after the PhD. The ideal applicant combines expertise in ocean climate processes together with expertise in remote sensing. A record of peer-reviewed publications and funded research proposals appropriate to the stage in the applicant's career is a must. Emphasis will be on remote sensing of one or more of sea surface height, salinity, temperature, vector winds, or marine gravimetry. Experience developing satellite data retrieval algorithms, instruments, methods for data analysis or sensor calibration and validation, and in the design of satellite sensors or missions are desirable. The incumbent will analyze and interpret data from an array of instruments, and participate in establishing the science foundation and requirements for future satellite oceanography missions. Opportunities exist to participate in existing satellite oceanographic missions and science teams (<http://climate.jpl.nasa.gov/missions/>). The incumbent is expected to support future satellite oceanography missions as recommended by the Decadal Survey study (<http://nasascience.nasa.gov/earth-science/decadal-surveys>). Applicants at a more advanced stage in their careers will also be considered.

There are collaborative opportunities with nearby universities such as the California Institute of Technology and the University of California at Los Angeles (UCLA). Joint research staff or faculty appointments with UCLA can be made through the Joint Institute for Regional Earth System Science and Engineering (JIFRESSE, <http://www.jifresse.ucla.edu>). Familiarity with NASA's satellite oceanography missions and programs is desirable. Startup funds will be available for up to three years, during which time the successful candidate will develop an externally funded research program.

If you would like to join the JPL Oceanography program, please apply online at: <http://Careerlaunch.jpl.nasa.gov/>. (Job ID#8891). Applications will be reviewed as they are received. The applicant should include a curriculum vitae, list of peer-reviewed publications, names and contact information of at least three professional references, and a statement of research interests. JPL/Caltech is an equal opportunity/affirmative action employer.

6. Executive Director of the Integrated Research on Disaster Risk (IRDR)

IRDR is an exciting decade-long, internationally integrated, all-hazards research programme bringing together the talents of the natural, social, medical and engineering sciences in a way not attempted before. Its objectives are the scientific characterization of natural and human-induced environmental hazards, vulnerability and risk; the understanding of decision-making in complex and changing risk contexts; and the reduction of risk and curbing losses through knowledge-based actions. The programme is founded on the recognition that disaster prevention and mitigation are critical dimensions of the global poverty reduction agenda and efforts to adapt to climate change, and should be an integral part of all international and national development efforts. The Executive Director will head an International Programme Office (IPO) for IRDR being established at the Center for Earth Observation and Digital Earth (CEODE) of the Chinese Academy of Sciences in Beijing, China, with core funding from the China Association for Science and Technology (CAST). The location of the IPO was selected following an international call for offers to host the Office. The IPO will be expected to meet the management needs of the IRDR programme and fully support the work of the international Scientific Committee for the Integrated Research on Disaster Risk programme (SC-IRDR) responsible for its overall scientific planning, coordination, guidance and oversight. The Executive Director will hold a PhD in a natural, social, medical or engineering science discipline related to natural hazards and disaster risk reduction and have several years of direct experience of international research collaboration in an interdisciplinary

setting. International science management and diplomatic skills would be at a premium. He/she will have an excellent command of written and spoken English, and a working knowledge of other major languages would be desirable. Some experience in the use of on-line consultation techniques and web-based collaborative tools (e.g. Google Groups) would be an advantage. The closing date for applications is 14 January 2010. See http://www.icsu.org/9_latestnews/files/IRDR_ExDir_Dec09.pdf for further details.

For more information on the IRDR see A Science Plan for Integrated Research on Disaster Risk - addressing the challenge of natural and human-induced environmental hazards which is posted on: www.icsu.org/Gestion/img/ICSU_DOC_DOWNLOAD/2121_DD_FILE_Hazard_report.pdf

7. Physical Oceanographer at British Antarctic Survey

The British Antarctic Survey (BAS), part of the Natural Environment Research Council, aims to undertake a world-class programme of scientific research, and to sustain for the UK an active and influential regional presence and a leadership role in Antarctic affairs.

As part of the new research programme (Polar Science for Planet Earth) we seek a Physical Oceanographer to work in the Open Oceans work package of the Polar Oceans programme. The post holder will participate in (and lead) research cruises to the Southern Ocean, and will use data from these and other sources to investigate the circulation, mixing and dynamics of the Antarctic Circumpolar Current, with a specific emphasis on the Drake Passage and Scotia Sea regions.

The post holder will have a PhD (or equivalent) in a scientific or numerate discipline, along with some years of postdoctoral experience. Previous evidence of publishing scientific results is required, and previous experience of leading oceanographic fieldwork, grant proposal preparation and/or inverse modeling would be advantageous.

Salary will be in the range of £30,710 to £37,120 per annum. A generous benefits package is offered, including a defined salary pension scheme, free car parking, flexible working hours and 30 days annual leave.

On-line application forms and further information are available on our website at www.antarctica.ac.uk/employment

8. Director of the Climate and Environmental Sciences Division in the Office of Biological and Environmental Research (BER) at the US Department of Energy

BER advances biological and environmental research programs and scientific facilities for energy, climate and the environment (http://www.science.doe.gov/Program_Offices/BER.htm). The Division Director for Climate and Environmental Sciences will lead BER programs in atmospheric system research, environmental system science, and climate and Earth system modeling, as well as two world leading scientific user facilities.

The Division Director will have primary responsibility for overall management of climate and environmental research including strategic planning, budget formulation and execution, and coordination with other parts of DOE and with other federal agencies. The Division Director is also responsible for oversight of two scientific user facilities—the Atmospheric Radiation Measurement (ARM) Climate Research Facility and the Environmental Molecular Sciences Laboratory—that provide the scientific community with technical capabilities, scientific expertise, and unique information to facilitate science in areas of importance to DOE. The Division Director will supervise a technical and administrative staff of about 16 people. The position is within the ranks of the U.S. government's Senior Executive Service (SES). The job

announcement, which will be open **until February 23, 2010**, is advertised as either a biologist or a physical scientist.

Physical scientists and engineers should apply at the following url:

http://jobview.usajobs.gov/GetJob.aspx?JobID=85147660&JobTitle=Director%2c+Climate+and+Environmental+Sciences+Division&q=09-SES-SC-HQ-001+%28cg%29&sort=rv%2c-dtex&cn=&rad_units=miles&brd=3876&pp=50&jbf565=1&vw=d&re=134&FedEmp=N&FedPub=Y&caller=sas.aspx&AVSDM

Biologists and ecologists should apply at the following url:

[http://jobview.usajobs.gov/GetJob.aspx?JobID=85147678&JobTitle=Director%2c+Climate+and+Environmental+Sciences+Division&q=09-SES-SC-HQ-002+\(cg\)&sort=rv%2c-dtex&cn=&rad_units=miles&brd=3876&pp=50&jbf565=1&vw=d&re=134&FedEmp=N&FedPub=Y&caller=sas.aspx&AVSDM](http://jobview.usajobs.gov/GetJob.aspx?JobID=85147678&JobTitle=Director%2c+Climate+and+Environmental+Sciences+Division&q=09-SES-SC-HQ-002+(cg)&sort=rv%2c-dtex&cn=&rad_units=miles&brd=3876&pp=50&jbf565=1&vw=d&re=134&FedEmp=N&FedPub=Y&caller=sas.aspx&AVSDM)

Meetings and Workshops

9. 11th International Meeting on Statistical Climatology

University of Edinburgh, Scotland, U.K., on 12-16 July 2010

The instructions for registration, abstract submission, and other information are at

<http://cccma.seos.uvic.ca/imsc/11imsc.shtml>

The deadline for abstract submission is 31 January 2010.

Special sessions at the 11IMSC <http://cccma.seos.uvic.ca/imsc/sessions.shtml> will be on reconstructing, understanding, and predicting climate variations, constraining and verifying climate predictions, climate change impacts, extreme events and their attribution, multi-model ensembles, data homogenization, long-term memory processes, and Bayesian methods, as listed below (moderators names are given after session titles). Complete session descriptions (from the 11IMSC website) as well as invited speakers' names are all pasted after the list of sessions below.

Sessions

[Ensemble techniques: design \(Richard Chandler, Marian Scott\)](#)

[Evaluation and uncertainty estimation from multimodel and perturbed physics ensembles](#)

(Reto Knutti)

[Reconstructing and understanding climate over the Holocene](#) (Gabi Hegerl, Jonathan Rougier, Juerg Luterbacher)

[Historical reconstructions of climate fields based on instrumental observations](#) (Alexey Kaplan and members of GCOS SST/SI Working Group)

[Predictions of climate change relevant for impacts](#) (Xuebin Zhang, Bruce Hewitson)

[Using observations to constrain and verify climate predictions](#) (Francis Zwiers, Nathan Gillett)

[Extreme events and event attribution](#) (Matilde Rusticucci, Peter Stott, Dough Nychka)

[Climate Data Homogenization and Climate trend/Variability Assessment](#) (Xiaolan Wang)

[Bayesian statistics for climate research](#) (Seung-Ki Min, Jonathan Rougier)

[Long term memory](#) (Peter Guttorp and Peter Craigmile)

10. SCAR Open Science Conference

3-6 August 2010 Buenos Aires, Argentina

The 2010 SCAR Open Science Conference, based on the theme "Antarctica - Witness to the Past and Guide to the Future". It will be convened at the Hotel Panamericano Buenos Aires in Buenos Aires, Argentina. The complete first circular for this conference is available for downloading at: <http://www.scar.org/>.

11. 2010 SORCE Science Meeting – Call for Abstracts

“Solar and Anthropogenic Influences on Earth: The Current Solar Minimum and Predictions for Future Decades”

May 19-21, 2010 Keystone, Colorado

<http://lasp.colorado.edu/sorce/news/2010ScienceMeeting/>

The 2010 SORCE Science Meeting is motivated by the solar irradiance observations by NASA’s Solar Radiation and Climate Experiment (SORCE). Relative to the past three solar minimum epochs of the space era (1976, 1986, and 1996) the current solar minimum (2008-2009) between solar cycles 23 and 24 is unusually prolonged, with record numbers of sunspot-free days, record low solar polar magnetic fields, and record high levels of cosmic ray flux. Evidence is accumulating for broad ranging terrestrial responses to the current inactivity of the Sun.

The lack of global warming since 2002 can be attributed in part to declining solar irradiance, which, together with La Niña cooling, has cancelled much of recent anthropogenic warming. Reduced solar UV irradiance and corresponding lower ozone levels may be obscuring the recovery from anthropogenic ozone depletion by CFCs. In the upper atmosphere and ionosphere, temperatures are anomalously cool and densities are reduced relative to previous solar minima; but these changes may also be related to accumulated greenhouse gas cooling in the upper atmosphere.

The format for this workshop consists of invited and contributed presentations for three sessions concerning the solar irradiance and its variability and the current state of Earth’s climate and atmosphere. We encourage your participation and hope that you will share this announcement with colleagues.

We encourage your participation (abstracts due Feb. 19, 2010) and hope that you will share this announcement with colleagues. Please visit the 2010 SORCE Meeting website for an agenda, speaker list, abstract form, etc. –

<<http://lasp.colorado.edu/sorce/news/2010ScienceMeeting/>><http://lasp.colorado.edu/sorce/news/2010ScienceMeeting/>.

Deadlines:

Abstract: Feb. 19, 2010

Pre-Registration: April 16, 2010

Hotel: April 16, 2010

12. Weather and Society Integrated Studies Caribbean Workshop

6-11 June 2010 San Juan, Puerto Rico

Call for Applications

WAS*IS is a grassroots movement to fully integrate social science into meteorological research and practice. For more information, visit: <http://www.sip.ucar.edu/wasis/caribbean/apply.jsp>

ANNOUNCEMENTS:

- **NSF Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring**

http://www.nsf.gov/pubs/2010/nsf10520/nsf10520.htm?WT.mc_id=USNSF_25

The PAESMEM Program seeks to identify outstanding mentoring efforts that enhance the participation of groups (i.e., women, minorities, and persons with disabilities) that are underrepresented in science, technology, engineering, and mathematics. The awardees serve as leaders in the national effort to develop fully the Nation's human resources in science, technology, engineering, and mathematics. **Proposals Due March 23, 2010**

- **International Council for Science (ICSU) requests input**

ICSU is requesting your input on:

1. The proposed Grand Challenges in Global Sustainability Research over the next decade, what current research efforts can be woven into the challenges, and what international research coordination is needed to get the job done. This consultation is open from **21 December 2009 to 21 February 2010**. <http://www.icsu-visioning.org>
2. ICSU Foresight Analysis -- What will be the key drivers that influence international science over the next 20 years? . The [consultation website](#) is open until **25 January 2010**.

- **WCRP news on climate research are now available in e-zine N°16**

http://wcrp.wmo.int/documents/WCRP_16Ezine_Dec09.pdf

Science Highlights include:

- Special Collection J. Climate: US CLIVAR Drought Initiative; - GRL article: Evidence of long-term warming in the USA; - SPARC and the Montreal Protocol;
- GRL article: Indian Ocean Dipole preconditioning Australia bush fires; - Nature Article : El Nino in a Changing Climate; - Tracking Changes in Earth's Global Energy: an Imperative for Adaptation.

Awards in the WCRP Community:

- Milutin Milankovic Medal awarded to WGCM former Co-chair Pascale Braconnot; - AMS Special Award to the CMIP3 team at PCMDI; - 2010 Carl-Gustaf Rossby Research Medal to Dr Tim Palmer.

In the News include:

- UNEP Climate Change Science Compendium 2009; - CINDY2011 and DYNAMO: The two process studies received the CLIVAR endorsement; - Major new initiative on climate change and agriculture; - ELSEVIER journal "Current Opinion in Environmental Sustainability"; - A successful GEWEX-iLEAPS joint conference on Water in a Changing Climate; - New report: Global Climate Change Impacts in the United States.