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July 2009 U.S. CLIVAR News-gram

Table of Contents

i – Calendar of Upcoming Events

Research Opportunities

1. Climate Process Teams Announcement of Opportunity

Position Announcements

2. NSF Director, Division of Ocean Sciences (OCE), Directorate for Geosciences (GEO)
3. SOLAS Project Officer
4. Scripps Postdoctoral Scholar in Aerosol-Climate Interactions in a Regional-Global Modeling Framework
5. Positions at Pacific Northwest Natl Lab (USA)
6. Marie Curie project on ocean circulation and climate
7. Chief scientist needed for P6 Leg 2, late 2009

Meetings and Workshops

8. International Summer School for Observing, Assimilating and Forecasting the Ocean
9. 11th Plinius Conference on Mediterranean Storms
10. Conference on Climate Variability and Change and the 24th Conference of Hydrology in the 90th AMS Annual Meeting
11. The Eighth Workshop on Decadal Climate Variability
12. NOAA's 34th Climate Diagnostics and Prediction Workshop

ANNOUNCEMENTS

- **GEWEX News, a special conference issue on "Water in a Changing Climate"**
- **WCRP news on climate research is now available in e-zine N°14**
- **Review of the International Geosphere-Biosphere Programme (IGBP)**
- **Review: Sponsors review WCRP achievements and strategy 05.05.09**

CALENDAR of UPCOMING EVENTS

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

August 2009

24-28: GEWEX Conference (Melbourne, Australia)

31 – Sept 4: World Climate Conference (Geneva, Switzerland)

September 2009

21-25: Ocean Obs '09 (Venice, Italy)

21-25: ICES Annual Conference (Berlin, Germany)

28-30: CLIVAR Working Group on Coupled Models (San Francisco, USA)

Research Opportunities

1. Climate Process Teams Announcement of Opportunity

US CLIVAR has worked closely with representatives from NSF, NOAA, NASA, and DOE in their development of a new announcement of opportunity (AO) for new Climate Process and

Modeling Teams (CPTs). While NSF has released the official CPT AO

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5753&org=NSF&sel_org=NSF&from=fund NOAA is also requesting proposals (see http://www.cpo.noaa.gov/opportunities/2010/pdf/FY10_CPT_Information_Sheet.pdf) for resources to support CPTs of particular interest to NOAA. Lastly, modeling centers supported by NASA and DOE should also be considered as partners in proposed CPTs (see the NSF CPT AO for a list of contacts).

Teams developing proposals should consider the recommendations in the US CLIVAR review of the pilot CPT activities: <http://www.usclivar.org/CPT/CPTReviewdoc.pdf>.

Position Announcements

2. NSF Director, Division of Ocean Sciences (OCE), Directorate for Geosciences (GEO) Closing date: September 3, 2009

The National Science Foundation is seeking qualified candidates for the position of Director, Division of Ocean Sciences (OCE), Directorate for Geosciences.

The Senior Executive Service (SES) covers managerial positions above GS-15 in the Federal Service. Persons appointed to the SES are eligible for health benefits, life insurance, social security, Federal retirement and thrift savings plan coverage, and participate in the Federal leave system. Career appointees are eligible for bonuses based on performance in addition to base pay. Competitive status is not required, veteran's preference does not apply and there are no grade restrictions. New appointees to the SES are required to serve a one-year probationary period. Final selection of career appointees requires the approval of the U.S. Office of Personnel Management. OPM approval will be based on the selectee's background in the following 5 executive core qualification areas: (1) Leading Change, (2) Leading People, (3) Results Driven Leadership, (4) Business Acumen, and (5) Building Coalitions/Communication. These areas are incorporated in the 5 executive/managerial requirements for the position. Information about the leadership requirements for SES-level positions is available on the U.S. Office of Personnel Management website at www.opm.gov/ses/handbook.html.

This position may also be filled on a one-to-three year Senior Executive Service (SES) Limited Term Appointment or under the provisions of the Intergovernmental Personnel Act. Under the provisions of the Intergovernmental Personnel Act, assignees remain on the payroll of his/her home institution and the institution continues to administer pay and benefits. NSF will reimburse the home institution for NSF's negotiated share of the costs.

For more information regarding the IPA assignment, visit our website at http://www.nsf.gov/sbout/career_ops.3.

3. SOLAS Project Officer

Please view the attached image for the full announcement. Information on SOLAS can be found at <http://www.SOLAS-int.org>

To find out more about the position: <http://www.uea.ac.uk/hr/jobs/ra>

4. Scripps Postdoctoral Scholar in Aerosol-Climate Interactions in a Regional-Global Modeling Framework

Scripps Institution of Oceanography at University of California San Diego seeks a postdoctoral research associate for modeling of regional climate. The project will

1. develop a unified regional-global aerosol-climate modeling framework
2. conduct sensitivity studies of the new modeling framework to evaluate the importance of local and global aerosol for regions of interest.

A strong background in atmospheric modeling is required, with specific experience with WRF-Chem or similar regional models of special benefit. A completed PhD, typically within the past five years, from an accredited college or university in atmospheric physics or a relevant field of engineering or science is required, along with a demonstrated commitment to publication of results. Strong verbal and written communication skills are necessary. Working knowledge of Fortran and Unix/Linux is required. Hands-on experience with developing, modifying, or using atmospheric models is highly desirable. Experience with observational data analysis and massively parallel computing is an asset. The position lasts 2 years, with an initial appointment of 1 year at \$45,000-55,000 per year (higher salaries commensurate with publication record and relevant experience). Additional information about the position, including links to recent related work by our group in Science (2004), is posted at <http://aerosol.ucsd.edu>. This project is part of a collaboration of Lynn Russell and Richard Somerville of Scripps with Steve Ghan and Phil Rasch of PNNL. Please send as a pdf file a curriculum vitae, statement of research interests, and the names of three professional references to: Prof. Lynn Russell at lmrussell@ucsd.edu. Scripps Institution of Oceanography at University of California San Diego is an equal opportunity employer.

Anticipated Start Date: 15 August 2009.

5. Positions at Pacific Northwest Natl Lab (USA)

The Climate Physics Group of the Atmospheric Science and Global Change Division of PNNL has a number of new opportunities in climate research and are trying to augment the group at a variety of levels. Research activities are focused on improving the representation of many physical processes in climate and the application of climate models as a tool for understanding the response of the climate system to both anthropogenic and natural forcings on time scales of a few decades to roughly a century.

Interests are in the following research areas:

- The fundamental physics of aerosols and clouds, their interactions, and their representation in atmospheric models.
- The role of aerosols and clouds on climate.
- Modeling regional climate and the hydrological cycle.

New activities are focused on: 1) understanding the role of aerosols and clouds in polar climate, 2) possible implications of climate intervention (geoengineering) on the climate system, 3) in assessments of how processes represented by detailed models (process models, high resolution cloud models and regional models) can be used to improve global climate models, and 4) development and application of regional earth system models to understand interactions of human activities and climate change.

Positions range from post-doctoral fellows, through starting to mid-career level scientist and engineering positions. See <http://jobs.pnl.gov>

6. Marie Curie project on ocean circulation and climate

The project offers 15 PhD studentships and 3 post-doctoral positions.

The GATEWAYS project conducts interdisciplinary climate change research on the ocean

circulation and its linking with climate processes on regional to global scales. The project combines modern observations, climate (ocean, atmosphere) modelling and marine palaeoclimatology. GATEWAYS sets out to test the sensitivity of the ocean circulation to changing climates of the past. It will assess the dynamics of the ocean circulation as a function of climate change; the influence of ocean circulation on continental climate; and the impact of inter-ocean water transports on the basin- wide overturning circulation.

The project provides training in laboratory-based analytical protocols and instrumentation, data processing and management, and numerical climate modelling. Complementary skills training focuses on project management and communication techniques. Trainees receive an integrated interdisciplinary grounding in the marine and climate sciences; proficiency in analytical procedures, climate modelling and statistical data processing; managerial skills to design and carry out research in an efficient and pragmatic way. An **information package** providing project overview and application information is available at the Institut de Ciència i Tecnologia Ambientals of the Universitat Autònoma de Barcelona at: www.uab.cat/icta

7. Chief scientist needed for P6 Leg 2, late 2009

The Science Oversight Committee for the program is seeking an experienced seagoing scientist to lead Leg 2 at sea. Full support for the Chief Scientist - if from a US academic institution - is provided by an NSF grant to SIO. This includes the Chief Scientist's salary at sea (plus support for pre- and post-cruise planning and data obligations), cruise-related travel, and a modest allowance for cruise-related supplies.

Also needed is a co-chief scientist for Leg 2. It is a good opportunity for a young scientist, possibly a post-doc, who is interested and has some prior sea experience. Senior scientists are also welcome as co-chiefs. Finally, informal applications for graduate student participants on Leg 2 are also being received. In all cases, full support (including tuition remission for the students) is normally provided from SIO. Please contact Jim Swift (jswift@ucsd.edu)

The US Global Ocean Carbon and Repeat Hydrography Program (also known as the CLIVAR/CO2 Repeat Hydrography Program) has recently scheduled trans-Pacific section P6 (ca. 30°S) for late 2009. The cruise particulars are:

Load Brisbane, Australia, 31 August - 3 September

Depart Brisbane 3 September and begin leg 1 of the P6 transect

Chief Scientist: Alison Macdonald (WHOI) Co-chief Scientist: Shenfu Dong (UMiami/RSMAS)
44 UNOLS days at sea

Arrive Papeete, Tahiti, French Polynesia 15 October

Unload those groups participating only on leg 1 and change personnel for most other science parties

Depart Papeete 18 October, and begin leg 2 of P6 transect

(Chief Scientist and co-chief for leg 2 are yet to be named) 45 UNOLS days at sea

Arrive Bahia de Valparaiso, Chile, December 1 Unload Bahia de Valparaiso, 1 - 3 December

Meetings and Workshops

**8. International Summer School for Observing, Assimilating and Forecasting the Ocean
11-22 January 2010 Perth, Australia**

<http://www.bom.gov.au/bluelink/summerschool>

The international summer school for observing, assimilating and forecasting the ocean is a two week program offered to early career scientists, professionals and students on the current state of the art in operational oceanography and related advances in the ocean sciences. The course curriculum will include topics covering the leading edge science in ocean observing systems, as well as the latest methods and techniques for analysis, data assimilation and ocean modelling.

9. 11th Plinius Conference on Mediterranean Storms

University of Barcelona

7-11 September, 2009

Cost and Registration: \$445, open until filled. This conference provides an interdisciplinary forum to improve the understanding of hazardous storms in the Mediterranean. Session topics include the nature and physical processes of extreme events, possible changes in storm behavior resulting from anticipated changes in climate, advanced techniques to track and predict storms, and relationships between atmospheric and surface processes.

10. Conference on Climate Variability and Change and the 24th Conference of Hydrology in the 90th AMS Annual Meeting

SESSION ON SURFACE/ATMOSPHERE INTERACTION

The land's role in the climate system – its impact on atmospheric means and variability across a broad range of timescales, ranging from hours to centuries – has been the subject of much recent exploratory research. The meteorological, hydrological, biophysical, biogeochemical, and ecosystem processes that underlie the connections between climate and soil moisture, vegetation, snow, and frozen soil, however, are not yet fully understood. This session focuses on (1) interfaces between climate, ecosystems, and the land branches of the energy, water, and carbon cycles and the impact of land processes on climate variability and extreme events (such as droughts and flooding); (2) dynamic, physical, and biogeochemical mechanisms by which the land surface (e.g., soil moisture, albedo, snow, frozen soil, vegetation) influences atmospheric processes and climate; (3) predictability associated with land-surface/atmosphere interaction and land initialization; (4) impacts of land-cover and land use change on climate; and (5) application and analyses of large scale field data (such as CEOP, AMMA) for land/atmosphere studies. We welcome papers addressing any of these topics. Interaction studies with GCMs or RCMs are welcome.

Please submit your abstract by **August 3, 2010** to the AMS 90th Annual Meeting. Please also send a copy to Yongkang Xue (yxue@geog.ucla.edu) and Randy Koster (randal.koster@gsfc.nasa.gov).

11. The Eighth Workshop on Decadal Climate Variability: Decadal Climate Predictability and Prediction: Are We Ready?

19-21/22 October, 2009 St. Michaels, Maryland

Major themes: “Decadal Climate Predictability and Prediction: Are We Ready?” will be the main theme of the Workshop, with two sub-themes.

Nowcasting: Is it possible to estimate the present state of major DCV phenomena? Why, which variables/quantities, and how? Are presently available observations sufficient for nowcasting? If not, which additional observations are required? What are the requirements on dynamical and statistical models, and data assimilation systems for nowcasting? What preparatory work is required to establish scientific credibility of nowcast information? How to design and implement an international decadal climate nowcasting effort?

Forecasting: What is the potential predictability of major DCV phenomena? What further scientific progress is necessary to realize and increase potential predictability? How to achieve the necessary progress? Are presently available observations sufficient for forecasting? If not, which additional observations are required? What are the requirements on dynamical and statistical models, and data assimilation systems for forecasting? What preparatory work is required to establish scientific credibility of forecast information? How to design and implement an international decadal climate forecasting effort?

The format of the Workshop will consist of invited talks and posters.

For further information: Vikram M. Mehta <vikram@crces.org>

12. NOAA's 34th Climate Diagnostics and Prediction Workshop Monterey, CA 26-30 October 2009

The workshop will concentrate on the status and prospects for advancing climate monitoring, assessment and prediction, with emphasis on societal impact of climate over the western US. This includes three major themes: (i) improving climate predictions / predictability, (ii) understanding and attribution of climate variability and its impacts, and (iii) application of climate predictions / projections in the development and delivery of products relevant to user communities in the Western US. The Workshop will feature oral sessions with a mix of invited and submitted presentations and thematic poster sessions.

The primary focus areas for the workshop will include: 1) Recent Climate Events. 2) Coupled atmosphere-ocean modeling of the climate system. 3) Impact of global scale climate variations on western US weather and climate. 4) Shift in climate means and interdecadal variations. 5) Application of climate science in decision making.

The outcome of this year's workshop will be an assessment of our current understanding and ability to predict climate in time scales ranging from week-2 through interdecadal, including identifying opportunities for advances, and exploring new products to support regional decision making.

A web site for the workshop information and abstract submission is linked through: <http://www.cpc.ncep.noaa.gov/products/CDPW34.shtml> . The abstract deadline is ***AUGUST 7, 2009***.

ANNOUNCEMENTS:

- **GEWEX News, a special conference issue on "Water in a Changing Climate"**
The latest issue of GEWEX News, a special conference issue on "Water in a Changing Climate," is available to download at:
http://www.gewex.org/gewex_nwsltr.html

CONTENTS:

- Water in a Changing Climate: Challenges for GEWEX
- Collateral Damage from the Death of Stationarity
- Precipitation in a Changing Climate
- More Floods and Droughts in the Future
- Increasing Greenhouse Gases Impact Local Water Supplies
- Recent Achievements in Macroscale Hydrological Modelling

Workshop/Meeting Summaries:

- Third Meeting of the International Soil Moisture Working Group

- 5th World Water Forum
- **WCRP news on climate research is now available in e-zine N°14**
http://wcrp.wmo.int/documents/Ezine_4_Jun09.pdf
 Science Highlights include:
 - Joint IPCC-WCRP-IGBP Workshop on science activities relevant to IPCC AR5;
 - BAMS: The State of the Art of Seasonal Prediction;
 - Journal of Climate: Water levels dropping in major rivers as global climate changes;
 - BAMS: Lessons Learned from IPCC AR4;
 - Global warming: Cuts in Greenhouse Gas Emissions Would Save Arctic Ice, Reduce Sea Level Rise;
 - MESA: Improving predictability of the South American monsoon system;
 - BAMS: Developing know-how on regional climate change research.

Please also note the approaching deadline (in parenthesis) for abstracts submissions/registrations as follows:

- OceanObs '09: Ocean information for society, 21-25 September, Venice, Italy (1 July).

To subscribe/unsubscribe, please send an email to wcrp@wmo.int. Contributions to e-zine N° 15 to be published in September 2009 should also be addressed to wcrp@wmo.int by 15 August 2009.

- **Review: Sponsors review WCRP achievements and strategy 05.05.09**
 In 2008, a review of the WCRP was carried out by a Review Panel which was appointed by its sponsors, ICSU, WMO and the IOC of UNESCO, and the International Group of Funding Agencies (IGFA). In its final report, the Review Panel recognizes the many important achievements of this international scientific research programme and concludes that WCRP can play a significant role in helping society meet the challenges of global climate change.
[http://www.icsu.org/Gestion/img/ICSU_DOC_DOWNLOAD/2352_DD_FILE_WCRP_Review_Final\(Prepub\).pdf](http://www.icsu.org/Gestion/img/ICSU_DOC_DOWNLOAD/2352_DD_FILE_WCRP_Review_Final(Prepub).pdf)
- **Review of the International Geosphere-Biosphere Programme (IGBP)**
 The review was undertaken simultaneously with a review of the World Climate Research Programme (WCRP). The report consists of three parts: an introductory chapter, a chapter on findings and other relevant information, and a chapter on recommendations.
[http://www.icsu.org/Gestion/img/ICSU_DOC_DOWNLOAD/2351_DD_FILE_IGBP_Review_Final\(Prepub\).pdf](http://www.icsu.org/Gestion/img/ICSU_DOC_DOWNLOAD/2351_DD_FILE_IGBP_Review_Final(Prepub).pdf)