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September 2010 U.S. CLIVAR News-gram

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CALENDAR of UPCOMING EVENTS

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

September 2010

20-24: Decadal Variability, Predictability, and Prediction: Understanding the Role of the Ocean/WGOMD Meeting (Boulder, CO)

27-29: WCRP Workshop on Extremes (Paris, France)

October 2010

4-8: NOAA Climate Diagnostics and Prediction Workshop (Raleigh, NC)

4-6: CLIVAR Working Group on Coupled Modeling (Exeter, UK)

12-14: Workshop on ENSO, Decadal Variability and Climate Change in South America (Ecuador)

25-29: Polar Predictability Workshop (Bergen, Norway)

27-29: NOAA Office of Climate Observation Review (Silver Spring, MD)

November 2010

1-3: Workshop on Evaluation of Reanalyses (Baltimore, MD)

3-5: 3rd Atmospheric Circulation Reconstructions over the Earth (Baltimore, MD)

Research Opportunities

1. Arctic Research Opportunities at NSF

http://www.nsf.gov/pubs/2010/nsf10597/nsf10597.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

This description provides detailed information on research opportunities to be supported by the following programs:

- **Arctic Natural Sciences Program (ANS)**
- **Arctic System Science Program (ARCSS)**
- **Arctic Social Sciences Program (ASSP)**
- **Arctic Observing Network (AON)**
- **Cyberinfrastructure (ACI)**

Pending availability of funds, \$25,000,000 may be available for proposals to this solicitation.

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

- November 10, 2010

Position Announcements

2. NOAA Oceanic and Atmospheric Research (OAR) Assistant Administrator

<http://jobview.usajobs.gov/GetJob.aspx?JobID=90368908&JobTitle=Assistant+Administrator+for+Oceanic+and+Atmospheric+Research&q=Office+of+Oceanic+and+Atmospheric+Research&where=&brd=3876&vw=b&FedEmp=N&FedPub=Y&x=0&y=0&AVSDM=2010-08-31+09%3a56%3a00>

USAJOBS Filling this position is critical for strengthening science across the agency and taking our research line office into the future. The announcement closes on October 18, 2010.

3. Ocean Climate Modeling Postdoctoral Fellowship in the Theoretical Division of Los Alamos National Lab

A postdoctoral fellowship is available within the Theoretical Division at Los Alamos National Laboratory in the area of computational geophysical fluid dynamics with a focus on global to regional ocean climate modeling. This project involves the development of numerical algorithms and turbulence closure methods for a variable-resolution, global ocean model intended for use in climate change applications. This new approach to ocean climate modeling allows regional climate dynamics to be simulated while maintaining a global modeling framework. The successful candidate will work closely with scientists within the Climate, Ocean and Sea-Ice Modeling (COSIM) group at LANL and with scientists in the Climate and Global Dynamics division at National Center for Atmospheric Research (NCAR). This position is a part of the joint NCAR-LANL Model for Prediction Across Scales project.

Required skills include expertise in computational geophysical fluid dynamics. Required skills also include the demonstrated ability to publish peer-reviewed papers, effective written and oral communication skills, willingness to work in a team environment, and a Ph.D. pending or received within the last five years. The applicant should also have a working knowledge of FORTRAN, C or C++ and analysis/visualization packages such as NCL, MATLAB, and/or IDL. Desired skills include a strong applied math background, experience or strong interest in geophysical turbulence modeling and/or experience or strong interest in turbulence parameterizations.

To apply submit a CV and a cover letter outlining current research interest at <http://www.hr.lanl.gov/JobListing/SingleJobAd.aspx?JobNumber=220327> . Candidates may also

be considered for prestigious Director's, Oppenheimer or Feynman Fellowships. Salary and benefits can be found at http://www.lanl.gov/science/postdocs/salary_guidelines.shtml . Applicants are encouraged to contact Todd Ringler <ringler@lanl.gov> for more information regarding this postdoc fellowship position.

4. Project Scientist at NCAR

<https://hostedjobs.openhire.com/epostings/submit.cfm?>

In support of the new NCAR Climate Process Team

5. Sea Ice Modeler for Climate Process Team

Applicants are sought for postdoctoral scientists to join a Climate Process Team recently funded by the National Science Foundation (NSF) and the National Oceanic and Atmospheric Administration (NOAA). The successful applicant will be a postdoctoral scientist located at the International Arctic Research Center (IARC) with the University of Alaska Fairbanks.

The project focuses on ocean mixing processes associated with high spatial heterogeneity in sea ice and the implications for climate models. The team consists of over ten PIs from leading institutions, with combined expertise in modeling, observational analysis, and theoretical work. The successful applicants will work on various modeling studies using 1-D, 3-D ocean-ice models and fully coupled Community Climate System Model (CCSM) and Geophysical Fluid Dynamics Laboratory (GFDL) climate models to improve ocean mixing processes associated with high spatial heterogeneity in sea ice. The position will collaborate with a postdoctoral scientist hired by and located at Princeton University. Funding is available for up to three years of support, depending on the performance of the successful applicants. Applicants must have a PhD in physical oceanography or related fields such as applied mathematics or fluid dynamics. Working experiences on ocean and sea ice model studies and analysis of observational data and climate model results are desirable. Applications must include a curriculum vitae, three references, and a cover letter describing which aspects of the problem they are most interested in or qualified to work on. Completed application packages should be sent to Meibing Jin (mjjin@alaska.edu).

6. Research Associate at University of Washington

A research associate appointment is available for a scientist interested in the use of active and passive satellite remote sensing to study physical processes that control the thickness, coverage and microphysical properties of low clouds, particular over the oceans. The successful candidate is expected to have considerable experience in the use of observational data and an understanding of cloud processes. The associate will work with Robert Wood as part of a research team focused on cloud-climate problems. The position is for an initial period of one year, renewable for a second year based upon performance and availability of funding, and is a full-time, temporary appointment. Specific areas of current interest are:

- Satellite observations to evaluate and improve the representation of clouds in large scale numerical models. The associate would work in a new multi-institution collaborative Climate Process Team and would help test a new parameterization of cloud macrophysical processes in the leading US climate models.
- (ii) Simultaneous collocated data from CALIPSO, CloudSat, MODIS and CERES, and AMSR-E to explore interrelationships between low cloud optical/structural properties, their precipitation frequency and structure, and their albedo, on a wide range of spatiotemporal scales.

To be considered for this position, the applicant must have a Ph.D. by the start of the appointment. Applications, including curriculum vitae, a statement of research interests, and the names of at least three references should be sent to Robert Wood, Department of Atmospheric Sciences, Box 351640, University of Washington, Seattle, WA 98195-1640. Priority will be given to applications received before October 1st, 2010. Please feel free to write to Robert Wood at robwood@atmos.washington.edu if you have questions.

An individual can hold an appointment at this rank for no more than 6 years post doctorate. Candidate must have received Ph.D. within the past four years to qualify for this position (posterior 2007). The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. The University is an Equal Opportunity/Affirmative Action employer.

Meetings and Workshops

7. Evaluation of Reanalyses – Developing an Integrated Earth System Analysis (IESA) Capability

November 1-3, 2010, Sheraton Hotel, Baltimore, Maryland (Inner Harbor)

[Online registration available](#) - abstract deadline **10 September 2010 – REGISTER NOW**

[Agenda now online](#)

Retrospective-analyses, or reanalyses, comprise the combination of state of the art models and assimilation methods with highly quality controlled observations, yielding globally continuous data with supporting output diagnostics produced from the model physical parameterizations. The initial reanalyses have proved to be extremely useful data sets for the study of weather and climate variability. For example, atmospheric reanalyses have also provided forcing and boundary conditions for other components of the Earth system, such as ocean and land models and data assimilation systems. Also, ocean reanalyses have been applied to research in ocean circulation and climate as well as in biochemistry, eco-systems, and geodesy. Subsequent reanalyses have improved upon the models and assimilation techniques, and the observational data sets likewise have improved through quality control. Presently, new atmospheric, oceanic and land reanalyses are coming available from NASA, NOAA, and other institutions.

Reanalyses continue to evolve, and in the next generations of reanalyses, coupling between components of the Earth system will be more prominent. Quantifying the uncertainty and improving the quality of reanalyses is increasingly important, both for current and new developing reanalysis efforts. This workshop aims to promote the understanding and assessment of the current reanalyses and to discuss future directions.

8. New strategies for evaluating ENSO processes in climate Paris, France, 17-19 Nov. 2010

The workshop will be limited to 50 active researchers of which 30 will be invited. Advanced PhD students and Post-doctoral researchers are invited to propose a contribution to the workshop: a selection of 20 presentation (oral or poster) will be made by the Scientific Steering Group. Applications, including an abstract, a CV and a statement of interest, should be sent to Nico Caltabiano (caetano@noc.soton.ac.uk) **before September 10th.**

Workshop web site:

http://www.clivar.org/organization/pacific/meetings/enso_ipcc/enso_ipcc.php

ANNOUNCEMENTS:

- **Updated Repeat Hydrography Manual Now Available On-line**
The Global Ocean Ship-based Repeat Hydrographic Investigations Program (GO-SHIP) was developed to provide a sustained coordination mechanism for global repeat hydrography as outlined in the GO-SHIP strategy (available online at: http://www.go-ship.org/Docs/IOCTS89_GOSHIP.pdf). Central to this coordination is ensuring that measurements made by different groups are comparable, compatible, and of the highest quality possible. One early priority for GO-SHIP was to revise the 1994 WOCE Hydrographic Programme manual.

In the 15 years since the original publication of the manual, many methods and techniques have changed and new sensors have been developed. The GO-SHIP Repeat Hydrography Manual: A Collection of Expert Reports and Guidelines (www.go-ship.org/HydroMan.html) provides detailed instructions for the high quality collection and analysis techniques of numerous ocean parameters, both physical and biogeochemical. Sixteen chapters covering CTD methods, discrete samples, and underway measurements have been reviewed and revised by more than 50 experts. Chapters have been through a period of open community review and have also been reviewed through a peer-review process. While most chapters were written specifically for this new version of the manual, several chapters are recently published guides that have been adopted as the GO-SHIP reference for specific variables.

- **The September Special Issue of Oceanography**
"Celebrating 50 Years of the Intergovernmental Oceanographic Commission" is now available online at <http://tos.org/oceanography/issues/current.html> To request print copies please contact Kathy Tedesco at k.tedesco@unesco.org
- **Public comments requested on the objectives, proposed topics, and next steps for the National Climate Assessment**
The website to collect comments is open at <http://globalchange.gov/what-we-do/assessment/notices>
- **New version of the Google Earth Argo layers released**
<http://argo.jcommops.org/argo.kml>
Full synchronisation with ARGOS database including ellipses of error. ('Fly to trajectory'). This works however only on active platforms and on 20 days of data maximum. Note that on September 21st Argos will switch to a new localization system that will dramatically improve locations quality. Our application will follow that evolution on a transparent way but from the 21st, 20 days will be needed to accumulate this "20 days window" data. I hope this will ease our management of beached floats and help you maybe to do some QC. Note that this is only available to Argo and is truly real-time.

Add comments in the QC feedback section. This is done for anyone to quickly drop a comment for a specific float.