Please forward to interested colleagues. If you do not wish to receive further newsgrams, please send a message to Cathy Stephens in the US CLIVAR Office (**cstephens@usclivar.org**)

November 2009 U.S. CLIVAR News-gram

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ANNOUNCEMENTS

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CALENDAR of UPCOMING EVENTS
(for more information-www.usclivar.org/calendar.html)

December 2009
1-3: Salinity Experiment Planning Meeting (Pasadena, CA)
14-18: AGU Fall Meeting (San Francisco, CA)

January 2010
11-15 Predicting the Climate of the coming decades (Miami, FL)
17-21: AMS Annual Meeting (Atlanta, GA)
25-29: GEWEX SSC Meeting (India)

February 2010
22-26: AGU Ocean Sciences Meeting (Portland, OR)

Research Opportunities
1. Announcement of Opportunity NSF Office of Polar Programs

http://www.nsf.gov/pubs/2010/nsf10503/nsf10503.htm?WT.mc_id=USNSF_25

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time): January 14, 2010

This AO solicits proposals in a number of areas, including **Arctic Natural Sciences, Arctic System Science and Arctic Social Sciences**

The Arctic Division supports a continuum of potential studies in the broad thematic area of Arctic environment research that joins the efforts of the Arctic Natural Sciences, Arctic System Science, and components of the Arctic Social Sciences programs.

The Arctic Sciences Division encourages proposals that advance understanding of the Arctic environment, in its broadest sense; from projects that seek to advance fundamental disciplinary understanding to complex interdisciplinary work needed to understand the arctic system as a whole. As such, proposals are welcome from single investigators or linked groups of collaborators. Proposals can address a process or component of the system in a disciplinary manner or take a broader, system-wide interdisciplinary view. Areas of special interest include marine and terrestrial ecosystems, arctic atmospheric (tropospheric and stratospheric) and oceanic dynamics, arctic geological, glaciological or palaeoecological processes and hydrology, as well as studies of permafrost, environmental-human interactions and environmental modeling. Proposals that capture and advance our understanding of the dynamics of ice-sheets and glaciers in skillful predictive models are particularly encouraged. At the system end of the continuum, emphasis will be placed on proposals that advance our knowledge of important arctic environmental processes, the relationships among the various components of the arctic system, and the changes occurring in the cycles of water, carbon and energy in the Arctic and their connectivity to similar processes in lower latitudes with priority on subjects relating to environmental change in the Arctic.

Proposals should discuss how their results would contribute to an understanding of the arctic environment. Thus, while it is perfectly acceptable to propose a study of a relatively narrow disciplinary scope, an effort should also be made to explain how one would transfer the results to broader areas of research.

Thus, the Arctic Sciences Division encourages proposals that focus on arctic phenomena and provide hypothesis-driven tests to produce the understanding needed to develop predictive tools based on first principles. Proposals to perform long term observations are best submitted to the Arctic Observing Network Program (AON). Similarly, proposals that treat generic processes that could be studied outside the Arctic are more appropriate to other programs within the Foundation.

2. NSF Dear Colleague Letter: Environment, Society, and the Economy
(ESE)http://www.nsf.gov/pubs/2010/nsf1003/nsf1003.jsp?WT.mc_id=USNSF_25

The Directorate for Social, Behavioral, and Economic Sciences (SBE) and the Directorate for Geosciences (GEO) seek to increase collaboration between the geosciences and the social and behavioral sciences by augmenting funding for interdisciplinary research related to Environment, Society, and the Economy.

NSF GEO and SBE seek to promote interdisciplinary collaborations and integrative research that link the geosciences and the social and behavioral sciences in new and vital ways. Proposals that generate intellectual excitement in both the participating communities are sought. Also encouraged are proposals that have broad educational, societal, or infrastructure impacts that capitalize on this interdisciplinary opportunity.

This is not a special competition or new program. Relevant proposals must be submitted to an existing SBE and GEO program according to those programs' regular target or deadline dates. The primary program (GEO or SBE program where the most significant contribution is likely to be made), and secondary program (SBE or GEO program where the second most significant contribution is likely to be made) should be listed on the proposal's cover page.

Position Announcements

3. WHOI Staff Positions in Climate Research

http://www.candidatemanager.net/cm/Micro/JobDetails.aspx?&mid=YWWY&sid=FDB&jid=FAZGTYFY&site=Scientific

WHOI announces a joint initiative in climate research amongst the Departments of Physical Oceanography, Marine Chemistry and Geochemistry, and Geology and Geophysics, and invites applications for tenure-track and tenured scientific staff positions. The goal of the multi-year initiative is to grow a strong interdisciplinary climate research program at WHOI.

It is anticipated that 6-12 climate scientists will be hired over the next 5 years, with the early appointees joining in the shaping of the climate research program.

A successful candidate will complement or broaden existing institutional research strengths, in ocean circulation and processes, the ocean's role in climate and global water cycle, chemical oceanography, marine biogeochemistry, glaciology, paleoceanography, and paleoclimatology, will hold an appointment in the department most appropriate to his/her research, and will be expected to interact with members of other departments.

Possible research areas include, but are not limited to, observation and analysis of contemporary and paleo- climate variability and trends from Ocean-Atmosphere-Cryosphere-Land datasets; climate observing systems utilization and/or development; biogeochemical cycles and climate; development and/or application of geochemical proxies within geological archives; coupled ocean/atmosphere processes in climate; climate dynamics; diagnosis of model outputs from climate simulations of past, present, or future climate and comparison to existing data sets.

Funding opportunities exist with the WHOI Ocean and Climate Change Institute (OCCI) to initiate and support interdisciplinary climate research projects. There are opportunities for participation in the MIT/WHOI Joint Program, and for broader climate research collaborations within WHOI (the Biology and the Applied Ocean Physics and Engineering Departments and the Marine Policy Center) and with the other two institutions of the Woods Hole Consortium, the Marine Biology Laboratory, and the Woods Hole Research Center.

Applicants should have a doctoral degree, postdoctoral experience and a publication record in a climate research area such as physical, paleo- or chemical oceanography, atmospheric or climate dynamics, or related fields. Women and minority applicants are particularly encouraged, and WHOI is sensitive to the issues of dual career scientists and will work with applicants to address them.

4. Johns Hopkins University Faculty Position in Climate Research

The Department of Earth and Planetary Sciences invites applications for a tenure-track or tenured faculty appointment in the area of Climate Science, as part of the Department's initiative in Global Change Science. The successful candidate will continue the Department's initiative to

develop an integrated, multidisciplinary research and teaching program on past, present, and future changes to Earth's Climate.

In the current search, the preference will be for applicants whose research focuses on the physics and/or fluid dynamics of climate processes. As examples, we encourage applicants with interests in:

- ocean and atmosphere dynamics;
- numerical modeling of present and past climate and/or its primary components;
- atmosphere–hydrosphere interactions;
- atmospheric chemistry;
- physics of clouds and aerosols;
- carbon cycling;
- ocean biogeochemistry;
- cryosphere processes.

For applicants whose research involves space-based experiments/instrumentation, strong consideration will be given to those having potential collaborations with the Johns Hopkins Applied Physics Laboratory. Opportunities also exist for collaboration with the Schools of Engineering, Medicine, and Public Health. Further information about the Department and other programs at Johns Hopkins may be found at: www.jhu.edu/eps/.

Applicants should submit (pdf preferred) a CV including publication list; statements of research and teaching plan; and the names, addresses, and e mail addresses of at least three referees to Kristen Gaines (kgaines@jhu.edu), Department of Earth and Planetary Sciences, Johns Hopkins University, 3400 N Charles St, Baltimore, MD 21218, USA; Telephone 410-516-7034. Review of applications will begin **December 15, 2009** and will continue until the position is filled.

Johns Hopkins University is an Equal Opportunity, Affirmative Action employer; minorities, women, and individuals with disabilities are actively encouraged to apply.

5. Faculty Positions at Scripps Institution of Oceanography

The Scripps Institution of Oceanography (SIO) at the University of California in San Diego (http://scripps.ucsd.edu) invites faculty applications (tenure track to tenured) to fill one or more positions in one or more of the fields listed below. We seek motivated, broad-thinking scientist-educators to establish vigorous research programs and provide intellectual leadership in their fields while complementing existing expertise at Scripps, other UCSD departments, and nearby institutions. SIO is a world renowned center of marine research with approximately 200 principal investigators leading research programs on all aspects of earth, ocean and atmospheric sciences. Successful candidates will be expected to teach classes and supervise research at both the graduate and undergraduate level. The positions require a PhD degree and a competitive record of publication, as well as evidence of the ability to conduct and fund an active research program consistent with the opportunity to have done so at this career level. Review of applications will begin on **November 1, 2009**, and will continue until positions are filled. Applicants should send a letter including descriptions of their teaching experience, research interests, a list of publications, immigration status, the position(s) for which they are applying and the names of three potential referees, along with their complete institution address, email address, phone and fax numbers to: Chair Search Committee, Department of the Scripps Institution of Oceanography, University of California, San Diego, 9500 Gilman Dr., La Jolla, CA 92093-0208 USA.

Applicants should clearly indicate for which position(s) they are applying using the areas of interest as stated below. Questions about submission of applications may be addressed to Cristy Whitehead at 858-534-3205, (gradrecruit@sio.ucsd.edu). Salary will depend on the experience of the successful applicant and will be based on the UCSD pay scales. Applicants are welcome to include in their cover letter a personal statement summarizing their contributions to diversity. UCSD is an Equal Opportunity Employer with a strong institutional commitment to excellence through diversity.

Biology Section: SIO invites applications to fill a faculty position (with preference at the rank of Assistant Professor) in Biochemistry, Genetics or Physiology with a major emphasis on the study of marine organisms, marine symbioses, or marine communities. Research areas of special interest include (but are not restricted to) protein biochemistry, biogeochemistry, chemical ecology, cellular physiology, and biomaterials. The successful candidate will have the opportunity to synergize with ongoing interdisciplinary research and education in natural products, microbiology, genomics and physiology at the Scripps Center for Marine Biotechnology and Biomedicine within the Biology section.

Ocean acidification: SIO invites applications at the Assistant, Associate or Full Professor level in the area of Ocean Acidification. Individuals with interests in the impacts of acidification on ocean life and ecology are encouraged to apply. The successful candidate will be interested in developing a multidisciplinary research program and coordinating with colleagues at Scripps and elsewhere, in addition to being committed to engaging students at both the undergraduate and graduate level.

Marine Population Dynamics: SIO invites applications at the Assistant, Associate, or Full Professor level for a position in Marine Population Dynamics for Fisheries and Protected Species. Research areas of special interest include population dynamics and stock assessment, management strategy evaluation, climate effects, and ecosystem and food web modeling. This key appointment builds upon a long record of accomplishment and collaboration between Scripps Institution of Oceanography and NOAA Fisheries Service. The successful candidate is expected to play a major role in training future practitioners in the science of population assessment and development of enhanced assessment methods that incorporate environmental variability, food web linkages and spatial heterogeneity.

Earth Section: SIO invites applications to fill a faculty position (with preference at the rank of Assistant Professor) in the sciences of the solid Earth. Areas of particular interest include continental margins, seafloor structure and tectonics, sea-level and cryospheric changes, earthquakes and other natural hazards, theoretical and computational methods, and Earth and planetary history. Candidates should have demonstrated research competence, the ability to develop new and innovative directions in research, and an interest in teaching. Interaction and collaboration with existing programs in the Earth Section at Scripps are welcome, as are research areas that would capitalize on our experimental marine and terrestrial seismic, electromagnetic, and geodetic capabilities.

Oceans & Atmosphere Section: SIO invites applications to fill a faculty position (with preference at the rank of Assistant Professor) in Atmospheric Sciences, Physical Oceanography or Marine Engineering. The successful candidate should have the potential to become a scientific leader. Interest in establishing innovative research and education programs is a prerequisite. Interaction and collaboration with the many existing programs in Marine and Atmospheric Sciences at Scripps is encouraged. Specific areas of interest include the development of technology for observing the ocean, collection and analysis of data, ocean-state estimation and modeling, dynamical meteorology, coastal and near-shore processes, and the role of the ocean and atmosphere in past and present climate.

6. Research Associate (Postdoctoral) or Faculty Research Assistant at Oregon State University

Project description: In the past decade, the climateprediction.net consortium based at Oxford University has produced and analyzed ensembles of huge numbers (many tens of thousands) of global-scale climate-change projections by developing software that allows users to contribute CPU time when they are not actively using their home or work desktop computers to make fragments of these many climate simulations. Currently the climateprediction.net group in collaboration with the Hadley Centre at the UK Met Office, is restructuring their software systems to allow similar ensembles of climate predictions to be made at higher resolution over the western US. The team has designed the outputs to ensure that the resulting ensemble of simulation outputs will be focused on societally relevant outcomes and variables. The team's primary contact and collaborator in the West has been Dr. Philip Mote with OCCRI, collaborating with Dr. Eric SalathÈ at Univ. of Washington. A public launch of the experiment is anticipated in late autumn 2009.

Qualifications: At the Postdoctoral level, a PhD in atmospheric or closely related physical science, or statistics; at the Faculty Research Assistant level, an M.S. or M.A. in one of these fields. Desired qualifications include significant experience in either analysis of large data sets or in numerical modeling, and good oral and written communications skills.

For more information on the position and on how to apply, see
http://www.coas.oregonstate.edu/index.cfm?content.display&pageID=752

Meetings and Workshops

7. International Symposium on Coastal Zones and Climate Change

Call for Papers for the International Symposium on Coastal Zones and Climate Change: Assessing the Impact and Developing Adaptation Strategies to be held on **12th - 13th April 2010** at Monash University, Gippsland, Churchill, Victoria, Australia. Please visit the website at:
http://www.monash.edu.au/cemo/czcc2010/

8. 42nd International Liege Colloquium on Ocean Dynamics Multiparametric observation and analysis of the Sea

Web site: http://modb.oce.ulg.ac.be/colloquium/

The colloquium will provide a forum to present and discuss recent scientific advances on the use of new sensors and platforms in all oceanographic disciplines. Of particular interest are multiparametric and interdisciplinary studies of the ocean, and the scientific questions being answered by means of the data collected through autonomous systems. Also advanced statistical methods to analyse multivariate data possibly in aggregated form from different sources are welcome. In this respect, the problems and solutions for constructing aggregated data-bases are also among the relevant topics covered by the colloquium.

For more than 40 years now, the International Liege Colloquium has been focusing on various aspects of ocean dynamics. The subject of the colloquium changes from one year to the other but the topics are always approached in an interdisciplinary framework. The size of the group of participants (about 60 on average) and the careful selection of subjects, have always ensured fruitful exchanges and discussions. For years, selected papers of the colloquium have been published as a special issue on an international peer-reviewed journal.

Abstracts for the 2010 Conference should be submitted before the **31st of December 2009**. The list of members of the scientific committee and the necessary details (submission, registration, deadlines, venue,...) are available in the attached document and on the web site http://modb.oce.ulg.ac.be/colloquium/.

9. CLIOTOP mid-term Workshop 'CLIOTOP into the future. Building scenarios for oceanic ecosystems in the 21st Century'
8-11 February 2010: Paris, France

http://www.imber.info/jobs-announcements/CLIOTOP_midterm_workshop_announcement.pdf

The workshop will focus on defining the strategy to efficiently build scenarios for oceanic ecosystems evolution under anthropogenic and natural forcing in the XXI Century in support to International governance. Recognizing that oceanic ecosystems and associated artisanal and industrial fisheries have global drivers such as climate changes, global fish markets and international legal frameworks, one of the major goals of CLIOTOP during its second phase will be to establish formal partnerships with oceanic RFMOs (tuna commissions, whaling commission, …) to provide them with useful science and products to help going toward an integrated ecosystem approach to oceanic fisheries at the global scale, taking example of the linkages between scientists and international policy makers that IPCC managed to put into effect for climate change.

9. European Geosciences Union: General Assembly 2010
Vienna, Austria 2-7 May 2010
Abstract submission deadline: 18 January 2010
deadline for support applications: 4 December 2009
http://meetingorganizer.copernicus.org/EGU2010/sessionprogramme

AS1.10:
Dynamics and chemistry of atmospheric moist convection
The goal of this session is to organize a joint forum for the wide range of communities concerned with atmospheric convection and its various aspects: both dynamics and chemistry, especially emphasizing the importance of cloud physics and radiation. It is intended to bring together observers, modelers, forecasters, and theoreticians. Moist convection is the most important weather phenomenon in the tropical atmosphere and the crucial component in large-scale processes such as monsoons, Madden-Julian Oscillation, ENSO. Its contribution to surface rainfall in the mid-latitudes during summer is significant. Forecasting intense precipitation events strongly hinges on our understanding of moist convection. Atmospheric convection is also a key process which controls the tropospheric composition above 5 km through vertical transport and wet deposition. The improvement of wet deposition and scavenging parameterizations are a key issue for large-scale models. A wide range of contributions will be accepted not only from those directly dealing with moist convection, but also from those studying mesoscale processes where convection plays a significant role, as well as tropical and mid-latitude cyclones, tropical meteorology, and climate dynamics.

Contributions of the results from the project "Year of Tropical Convection" (August 2008-July 2009) are much anticipated. This year, this session is planned to be organized back-to-back with the session "AS3.5: Vertical and Long-Range Transport of Trace Gases and Aerosols" in order to emphasize a link of this session with the atmospheric chemistry transport processes.

ANNOUNCEMENTS:

- **American Geophysical Union – bylaws voting**
  The American Geophysical Union (AGU), a world wide scholarly society of 55,000 members, is updating its governance structure for the first time in decades to allow for broader representation of member interests in how it develops programs and for more responsible management of its business activities. AGU members are urged to vote today on modification of the bylaws and articles of incorporation that must pass in order to implement this new governance structure. **Voting ends November 13**. See http://www.agu.org/elections/bylaws09/index.php

- **CCMP First-Look dataset Extended**
  In collaboration with private and government institutions, a team led by Dr. Robert Atlas (PI; proposal originally solicited by REASoN, and currently funded by MEaSURES through NASA) has created a cross-calibrated, multi-platform (CCMP), multi-instrument ocean surface wind velocity data set (http://sivo.gsfc.nasa.gov/oceanwinds), for the period extending from January 1, 1987 through December 31, 2008, with wide ranging research applications in meteorology and oceanography.

  To obtain access and learn more about the CCMP product, please visit the CCMP information page at: http://podaac.jpl.nasa.gov/DATA_CATALOG/ccmpinfo.html

- **New Daily Gridded Precipitation Dataset for Asia**
  The daily gridded precipitation dataset for 1961-2004 was created by collecting rain gauge observation data across Asia through the activity of the Asian Precipitation. Highly Resolved Observation Data Integration Towards the Evaluation of Water Resources (APHRODITE) project supported by the Global Environment Research Fund, Ministry of Environment, Japan.

  The product (APHRO_V0902) for Monsoon Asia, Russia and Middle East (on 0.5deg x 0.5 deg and 0.25deg x 0.25 deg grids) are available at the web-site: http://www.chikyu.ac.jp/precip> The product is the only long-term (1961 onward) continental-scale daily product that contains a dense network of rain gauges data for Asia including the Himalayas and mountainous areas in the Middle East. The product contributes to studies of climate change, verification of numerical model simulation and more.

  Detailed feature and algorithm of the product are shown in the following paper: Yatagai, A., O. Arakawa, K. Kamiguchi, H. Kawamoto, M. I. Nodzu and A. Hamada (2009): A 44-year daily precipitation dataset for Asia based on dense network of rain gauges, SOLA, 5, 137-140, doi:10.2151/sola.2009-035. The paper is available at http://www.jstage.jst.go.jp/article/sola/5/0/5_137/_article

  You can download the product for free-of-charge from:
  http://www.chikyu.ac.jp/precip/download/index.html

  Please "sign up" at first then you can access the data. Some known errata are listed at http://www.chikyu.ac.jp/precip/data/Errata_V0902.txt