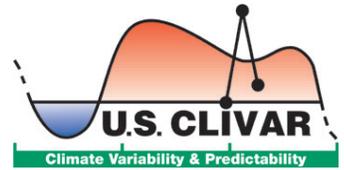


December 2012 U.S. CLIVAR Newsgram



Please forward to interested colleagues. To manage your subscription to this newsgram, visit: www.usclivar.org/contact/get-involved. To include an announcement in our next issue, email Jennifer Mays: jmays@usclivar.org.

Calendar of Upcoming Events

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(*correction*)

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1. Director, Climate Program Office, NOAA, Silver Spring, MD
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Calendar of Upcoming Events

[93rd AMS Annual Meeting](#)

January 6-10, 2013

Austin, TX

[2013 Winter Earth Science Information Partners \(ESIP\) Federation Meeting](#)

January 8-10, 2013

Washington, DC

U.S. CLIVAR SSC In-Person Meeting

January 15-16, 2013

Silver Spring, MD

by invitation

[Third Workshop on the Evaluation of ENSO Processes in Climate Models](#)

January 21-23, 2013

Hobart, Australia

[Dialogue Between Contourite & Oceanography Processes, International Workshop](#)

January 28-29, 2013

Hull, UK

[U.S. CLIVAR ENSO Diversity Workshop](#)

February 6-8, 2013

UCAR Center Green, Boulder, CO

abstract submission closes Jan. 2, 2013

[4th PAGES Open Science Meeting](#)

February 11-16, 2013

Goa, India

[AAAS Annual Meeting](#)

February 14-18, 2013

Boston, MA

[ASLO 2013 Aquatic Sciences Meeting](#)

February 17-22, 2013

New Orleans, LA

[WGOMD/SOP Workshop on Sea Level Rise, Ocean/Ice Shelf Interactions and Ice Sheets](#)

February, 18-20, 2013

Hobart, Australia

[8th Session of the CLIVAR/CliC/SCAR Southern Ocean Panel](#)

February 21-22, 2013

Hobart, Australia

By invitation

11th Session of CLIVAR Working Group on Ocean Model Development

February 21- 23, 2013

Hobart, Australia

By invitation

[WCRP Special Workshop on Climatic Effects of Ozone Depletion in the Southern Hemisphere: Assessing the Evidence and Identifying Gaps in the Current Knowledge](#)

February 25 -March 1, 2013

Buenos Aires, Argentina

[GODAE OceanView & WGNE Joint Workshop on Short- to Medium-range Coupled Prediction for the Atmosphere-Wave-Sea-Ice-Ocean](#)

March 19-22, 2013

Washington, DC

[4th WGNE Workshop on Systematic Errors in Weather and Climate Models](#)

April 15-19, 2013

Exeter, UK

Announcements

1. 2013 Call for U.S. CLIVAR Panel Member Nominations

The U.S. CLIVAR SSC will be selecting multiple panel members in 2013 for each of the three U.S. CLIVAR panels: Phenomena, Observations and Synthesis (POS) Panel, Process Study Model Improvement (PSMI) Panel, Predictability, Prediction and Applications Interface (PPAI) Panel. Deadline for nomination submissions is Jan. 11, 2013. See the [Call for Panel Nominations Announcement](#) for more information.

2. U.S. CLIVAR Town Hall at AGU

The co-chairs of the U.S. CLIVAR SSC, Lisa Goddard, Jay McCreary, and Janet Sprintall, along with Mike Patterson, U.S. CLIVAR Project Office Director, previewed the new U.S. CLIVAR Science Plan under development at a Town Hall at AGU. The main topics covered were the fundamental science questions, mission, goals, and cross-cutting strategies for the new plan. Thanks to everyone who joined us for the presentation and discussion. [Click here to download the Town Hall Presentation.](#)

3. Opportunities in IODP New Program: International Ocean Discovery Program 'Exploring the Earth under the Sea'

The International Ocean Discovery Program will start in October 2013 with the support of 26 nations. It is planned to last for 10 years. This new international research program will bring together the Earth, ocean, atmospheric, and life sciences with a common goal of understanding the Earth's past, present and future. The program's science plan, *Illuminating Earth's Past, Present, and Future*, addresses pressing scientific priorities and social concerns within four themes: Climate and Ocean Change, Biosphere Frontiers, Earth Connections and Earth in Motion.

To achieve its aims, the program will draw on information from beneath the ocean floor, brought to the surface by ocean coring technologies and borehole observatories. Implementation requires two permanent ocean drilling platforms, the JOIDES Resolution and the riser vessel D/V Chikyu, and the option to charter mission-specific platforms for operations in specialized ocean environments. These platforms will be supplied by the IODP partners. Two opportunities for earth/climate scientists include calls to serve as the chair of the IODP Forum and on the new JOIDES Resolution Facility Board. See the [IODP New Program website](#) for more information.

4. Deadline Extended for Input on U.S. Weather Commission Proposal

As part of their proposal for a U.S. Weather Commission, UCAR and collaborators continue to seek input on the potential goals, design, and powers of such a commission. Organizers are eager to hear from all interested members of the public, private, and academic sectors of the weather enterprise. A Web forum has been established to facilitate dialogue and the open sharing of ideas and views to be taken into account should Congress and the executive branch decide to support the concept: [Forum on Establishing a Weather Commission](#). Deadline for comments is **January 16, 2013**. Contact: Scott Rayder, (srayder@ucar.edu).

5. Carbon Assessments Released from the U.S. Geological Survey and the Global Carbon Project

This [USGS report on Baseline and Projected Future Carbon Storage and Greenhouse-Gas Fluxes in Ecosystems of the Western United States](#) was edited by Zhiliang Zhu and Bradley C. Reed. Mandated by the Energy Independence and Security Act (2007), this assessment estimates that approximately 91 million metric tons/year of carbon is sequestered by terrestrial systems in the Western United States, of which close to 70% is contributed by forests.

The Global Carbon Project's 2012 update of the Global Carbon Budget: "This year's budget includes the latest trends in global and regional carbon dioxide emissions and sinks, and analysis of how these trends relate to keeping global temperatures below 2C. A [commentary in Nature Climate Change](#) focuses on com-

paring observed emission trends with four generations of IPCC emissions scenarios and considers the mitigation challenge to keep temperatures below 2C. A [detailed manuscript in Earth System Science Data Discussions](#) describes the full carbon budget (emission sources and sinks), and the methods and data used. The [GCP webpage](#) provides all the background information, and links to the underlying datasets and a ppt presentation. The highest emissions from fossil fuel and cement production in history were estimated for 2012.

6. WCRP Report Released on Coordinated Ocean-sea ice Reference Experiments (COREs)

WGOMD has published the CORE release notes as a WCRP report: The document describes the datasets and protocol for running global ocean-ice climate models according to the WGOMD Coordinated Ocean-ice Reference Experiments (COREs). Citation: Griffies, S. M., Winton, M., Samuels, B., Danabasoglu, G., Yeager, S., Marlsand, S., Drange, H., and Bentsen, M., 2012: Datasets and protocol for the CLIVAR WGOMD Coordinated Ocean-sea ice Reference Experiments (COREs), WCRP Report No. 21/2012, pp. 21. [Download the report here.](#)

Announcement of Opportunity

1. NSF Interdisciplinary Research in Hazards and Disasters (Hazards SEES) Program Solicitation *(correction from November newsgram)*

The overarching goal of Hazards SEES is to catalyze well-integrated interdisciplinary research efforts in hazards-related science and engineering in order to improve the understanding of natural hazards and technological hazards linked to natural phenomena, mitigate their effects, and to better prepare for, respond to, and recover from disasters. The goal is to effectively prevent hazards from becoming disasters. Hazards SEES aims to make investments in strongly interdisciplinary research that will reduce the impact of such hazards, enhance the safety of society, and contribute to sustainability. The Hazards SEES program is a multi-directorate program that seeks to: (1) advance understanding of the fundamental processes associated with specific natural hazards and technological hazards linked to natural phenomena, and their interactions; (2) better understand the causes, interdependences, impacts and cumulative effects of these hazards on individuals, the natural and built environment, and society as a whole; and (3) improve capabilities for forecasting or predicting hazards, mitigating their effects, and enhancing the capacity to respond to and recover from resultant disasters.

Hazards SEES seeks research projects that will productively cross the boundaries of the atmospheric and geospace, earth, and ocean sciences; computer and information science; cyberinfrastructure; engineering; mathematics and statistics; and social, economic, and behavioral sciences. Successful proposals will integrate across these multiple disciplines to promote research that advances new paradigms that contribute to creating a society resilient to hazards. Proposals must demonstrate the inclusion of the appropriate expertise to address the research questions, hypotheses, and problems being posed. Hazards SEES research projects should be designed around one or more locations, identifiable hazards, and/or themes. Furthermore, Hazards SEES research should train the next generation of scientists for interdisciplinary hazards and disaster research. Full proposal deadline is **February 4, 2013**.

Meetings and Workshops

1. U.S. AMOC/U.K. RAPID International Science Meeting: 'AMOC Variability: Dynamics and Impacts' Hilton Baltimore Baltimore, MD July 16-20, 2013

- Registration/Abstract Submission will open on **January 4, 2013**.
- Abstract submission will close **March 4, 2013**.

Observations and numerical modelling experiments suggest that changes in the Atlantic Meridional Overturning Circulation (AMOC) play a key role in global climate variability and change. This second joint meeting of the UK RAPID and US AMOC science programs provides an opportunity to explore new results from the purposefully designed AMOC observing systems, as well as a wide variety of observational, global coupled and regional model studies and theory in this rapidly changing field of research. The meeting is intended to span the full breadth of AMOC research: paleo- and modern observational studies, theory, modelling, predictability/prediction, and impacts on climate, carbon, and biogeochemistry. An outcome of the meeting will be an online collection of abstracts and presentations.

To encourage integration of observations and theory, and merger of results across geographic areas the meeting will address three themes:

- Observations and dynamics of seasonal-to-interannual timescales. This session includes results from recent instrument deployments and related observational studies, and results from regional high resolution modeling.
- Observations and dynamics of decadal to mult-centennial timescales. This session includes results from proxy studies, and coupled climate model simulations.
- Climate impacts, and what the future may hold. This session emphasizes studies focused on forecasts of societal impacts, including changes in key variables: SST, sea level, carbon/biogeochemistry, and ecosystems.

Scientific Organizing Committee:

Jim Carton (University of Maryland), Stuart Cunningham (Scottish Association for Marine Science), Eleanor Frajka-Williams (U.K. National Oceanographic Centre), Young-Oh Kwon (Woods Hole Oceanographic Institution), David Marshall (University of Oxford), Rym Msadek (NOAA Geophysical Fluid Dynamics Laboratory).

2. *Save the Date*: **U. S. CLIVAR Extremes Workshop** Lawrence Berkeley National Laboratory, Berkeley, CA August 20-22, 2013

The U.S. CLIVAR Working Group on Extremes will hold an international workshop on Analyses, Dynamics, and Modeling of Large Scale Meteorological Patterns Associated with Extreme Temperature and Precipitation Events. The 2.5 day workshop will be held August 20-22, 2013 at the Lawrence Berkeley National Laboratory in Berkeley, California. The workshop will have oral and poster sessions along with invited presentations. Further information about the workshop and the opening of registration are forthcoming in January 2013.

3. *Save the Date*: U.S. CLIVAR Hurricane Workshop
Geophysical Fluid Dynamics Laboratory, Princeton, NJ
June 5-7, 2013

The U.S. CLIVAR Working Group on Hurricanes will hold a 2.5 day workshop June 5-7, 2013 at GFDL in Princeton, NJ. Further information about the workshop will be posted on the U.S. CLIVAR website in January 2013.

4. U.S. CLIVAR ENSO Diversity Workshop
UCAR Center Green Conference Center
Boulder, CO
February 6-8, 2013

*****Poster abstract submission deadline extended: January 2, 2013*****

It is well known that no two ENSO events look alike. Over the last decade, the longitudinal location of warming during El Niño events has received a large attention due to its influence upon atmospheric teleconnections and remote impacts. Several different approaches, indices, and definitions have been introduced to categorize the various El Niño flavors. While the literature on this topic is extensive, there are still many open questions about the existence of a continuum versus preferred longitudes of maximum warming, dynamical processes, impacts, possible precursors, and the ability to predict the different flavors. It is also unclear whether observational and ocean analysis datasets are consistent in reproducing the various aspects of ENSO diversity, and of adequate duration to provide a statistically significant characterization of the different flavors. Proxy data are a promising approach, and the information they provide needs to be explored and compared with other observations and models.

The workshop is intended to provide a venue for discussion and synthesis of all the above aspects of ENSO diversity. It will include oral and poster presentations, with ample time for discussion to identify key directions for future research.

5. U.S. CLIVAR International Workshop - Understanding the Response of Greenland's Marine Terminating Glaciers to Oceanic and Atmospheric Forcing
near Boston, MA
June 4-7, 2013

The widespread retreat and speedup of marine-terminating outlet glaciers in Greenland over the past two decades has led to a doubling of the ice sheet's contribution to sea level rise and increased the freshwater input to the North Atlantic. Its coincidence with a period of oceanic and atmospheric warming suggests a common climate driver. Yet the forcings and mechanisms behind these dynamic responses are poorly understood and either missing or crudely parameterized in climate and ice sheet models. Progress on this complex topic requires a collaborative, international, cross-disciplinary and multi-faceted approach.

With this workshop, we seek to bring together oceanographers, glaciologists, atmospheric and climate scientists, including observationalists, modelers, and theoreticians, working on all aspects of this problem. A whitepaper initiated by the U.S. CLIVAR Working Group on Greenland Ice Sheet Ocean interactions (GRISO) serves as background to this workshop. [It can be downloaded here.](#)

6. NCAR ASP Summer Colloquium: Carbon-Climate Connections in the Earth System

NCAR, Boulder, CO

July 29-August 16, 2011

This colloquium is designed for graduate students who have completed at least one-year in a field related to biogeochemistry or Earth System modeling. The colloquium will focus on the physical, biological, and chemical mechanisms that regulate the global carbon cycle. It will feature lectures from international experts on key aspects of the carbon cycle and its representation in Earth System models.

Lectures will address both terrestrial and ocean biogeochemical systems, and include observational and modeling perspectives. Furthermore, lectures will be given on coupled climate modeling and analytical techniques relevant to carbon cycle science. Tutorials and computer-based exercises will provide experience working with models spanning a range of complexity. Student projects will examine the behavior of cutting-edge Earth System models in simulations submitted to phase 5 of the Coupled Model Intercomparison Project (CMIP5). Application deadline is **February 15, 2013**.

7. WCRP International Workshop on Seasonal to Decadal Prediction

Toulouse, France

May 13-16, 2013

The Working Groups on Seasonal to Interannual Prediction (WGSIP) and the Working Group on Climate Modelling (WGCM) are organizing an international workshop on seasonal and decadal prediction. The workshop will be held in Toulouse, France, from 13 to 16 May 2013, under the sponsorship of Météo-France, CNRS, CERFACS, WCRP, and the foundation BNP-Paribas.

The goal of the workshop is to review our current abilities to make skillful predictions on seasonal to decadal (s2d) timescales. The availability of results from the Climate system Historical Forecasting Project (CHFP) and the decadal prediction component of the Coupled Model Intercomparison Project (CMIP5), together with very active investigations in both operational and research communities, support the timeliness of the Workshop. Areas of interest include: Predictability, Initialization and ensemble generation, Models, Bias adjustment, calibration and combination of forecasts, Forecast quality, and Applications. Registration and abstract submission is [now open online](#). Abstract submission deadline is **February 15, 2013**.

8. DISCCRS VIII Interdisciplinary Climate Change Research Symposium

La Foret Conference and Retreat Center, Colorado Springs, CO

October 12-19, 2013

The DISsertations initiative for the advancement of Climate Change ReSearch (DISCCRS) hosts symposia for early-career climate change researchers to catalyze international, interdisciplinary collegial networks and foster collaborative interdisciplinary research and dynamic interactions between science and society to enable us to better understand and respond to the myriad challenges posed by climate change.

During the weeklong symposium sponsored by NSF & NASA, 30 competitively selected recent Ph.D. graduates will share their research, engage in discussions with peers, mentors, and funding agency representatives, and hone their teambuilding and communication skills. Most importantly, scholars will depart from the symposium with a collegial peer network that extends across the full range of climate science.

[See here for an overview of recent symposium scholars.](#)

Eligibility: Ph.D. requirements completed between September 1, 2010 - February 28, 2013 in any field. Applicants should be conducting research relevant to the study of climate change, its impacts, or its societal implications. We encourage applicants from the biological, physical, and social sciences, mathematics, engineering, and other fields. While U.S. citizens and residents have preference, some funds are available for non-U.S. participants. [See here for symposium application instructions](#). Application deadline is **February 28, 2013**.

9. [WCRP-EU-IPCC International Conference on Regional Climate - CORDEX 2013](#)

Brussels, Belgium

Nov. 4-7, 2013

The conference will bring together the international community of regional climate scientists to present and discuss results from WCRP regional climate studies, with a particular emphasis on the CORDEX initiative. It has been designed to deliver on the current status of regional climate science and modeling; to strengthen collaboration and synergies between the various CORDEX regional activities; and, in collaboration with other regional climate research initiatives, to outline the future priorities for regional climate science, with due consideration of the needs of the UN Global Framework for Climate Services and potential future IPCC and other science-based assessments.

This land-mark event will provide a forum for assessing the following key challenges:

- Development of regional climate change projections
- Provision of reliable and actionable regional climate information
- Use of regional climate information in impact, adaptation and vulnerability studies
- Dissemination of regional climate knowledge to policy-makers and a wide range of stakeholders and decision-makers

Registration and abstract submission opens **January 15, 2013**.

10. [PASI Short Course on Atmospheric Processes in Latin America/Caribbean](#)

Cartagena, Colombia

May 27 to June 7, 2013

Applications are invited from early career scientists to participate in a two-week short course on atmospheric processes of Latin America and the Caribbean, to be held in Cartagena, Colombia, from May 27 to June 7, 2013. This course will provide a comprehensive summary of the state of knowledge of the key processes that are important to the region. Topics will include global teleconnections, regional monsoon systems, regional sources of moisture and its transport, hurricanes, ocean-air interactions, hurricanes, and small-scale convection. The course will have five distinct elements: lectures, computer labs, both group and small-group discussions, a group writing project, and a research colloquium.

We are expecting to accept up to 30 participants, half from the United States and half from the other countries in the Americas and the Caribbean, chosen in a manner that ensures a highly qualified and diverse set of attendees. NSF-sponsored stipends are available for participants to help cover partial travel and subsistence. Support from a participant's home institution is welcome and encouraged. Application deadline: **February 1, 2013**. Administrative contact: Dawn Williams, (pasi@cosmic.ucar.edu)UCP/COSMIC, 303-497-2600. Science contact: John Braun, (pasi@cosmic.ucar.edu) UCP/COSMIC, 303-497-8018.

11. Davos Atmosphere and Cryosphere Assembly (DACA-13): Air, Ice & Process Interactions

Davos, Switzerland

July 8 - 12, 2013

The IAMAS & IACS Associations of the IUGG invite the international scientific community to their joint 2013 Assembly - the DACA-13 conference - to discuss latest developments in atmospheric and cryospheric research. The Conference features 20 symposia on a wide range of climate and cryosphere topics from sea ice and ice-sheet modeling to polar and mountain climate changes. The venue is the Swiss mountain resort of Davos, Europe's highest city located in the Swiss Alps at 1560 meters above sea level, and located two hours by train from Zurich Airport. The DACA-13 Scientific Program Committee invites the submission of abstracts on original or review work to be considered for oral or poster presentations. Deadline for abstracts is **January 31, 2013**.

Position Announcements

1. Director

Climate Program Office, NOAA, Silver Spring, MD

NOAA Research is looking for an innovative leader to serve as the Director for our [Climate Program Office](#) (CPO). Highly qualified candidates will demonstrate a combination of strong scientific credentials and experience in leading large scientific programs and in collaborating with diverse climate stakeholders. The CPO Director is responsible for the development of climate science, services, and information products for use by national, regional, and local users both within and external to NOAA. The Director allocates and controls annually appropriated funds in order to maintain high quality activities to meet society's climate needs. In addition, the Director serves as a spokesperson for the NOAA Climate Program in meetings leading to the identification of significant research projects and the establishment of operational objectives, and the Director is the NOAA principal representative to the interagency U.S. Global Change Research Program.

This position, located in Silver Spring, MD, reports to the Deputy Assistant Administrator for Programs and Administration in [NOAA's Office of Oceanic and Atmospheric Research](#). This position is offered through USAJOBS as either a Permanent Federal position at the Senior Executive Service level (US Citizens only) or as a two-year Intergovernmental Personnel Act (IPA) assignment with the possibility to extend for an additional two years (US citizens or non-citizens who are permanent US residents and actively seeking citizenship). Additional information on IPA assignments is available on the [Office of Personnel Management website](#). The job announcement is open through **December 28, 2012**. Please direct questions about this position to Tim Ash (Timothy.K.Ash@noaa.gov, 301-713-6304).

2. Professor (Wyoming Excellence Chair in Climate Science)

Department of Atmospheric Science, University of Wyoming

The Department of Atmospheric Science at the University of Wyoming seeks a distinguished scientist for the Wyoming Excellence Chair in Climate Science, funded through the Excellence in Higher Education endowment of the State of Wyoming. In addition to an having an earned Ph.D. in atmospheric science or a closely related field, the successful candidate will have demonstrated a high level of accomplishment and leadership in his/her area of specialization, and will be eligible for a faculty appointment in the Department of Atmospheric Science at the rank of full professor, or associate professor for a person with compelling evidence of potential for rapid advancement. Scientists without previous university experience

but with a demonstrated commitment to, and potential for, effective teaching in a university setting are welcome to apply.

The successful candidate will build upon existing strengths at the University of Wyoming that aim to promote a deeper understanding of some of the physical, chemical, biological, and human interactions that influence climate. We seek candidates with an established, highly productive research program that emphasizes the improvement of climate models, particularly those that address regional scale issues. Applicants whose focus and modeling expertise create linkages to observational studies are encouraged to apply, with some preference given to those whose research improves the ability of models to simulate cloud and precipitation processes, thereby facilitating the examination of climate change impacts on the water resources of the Rocky Mountain region.

Applications must include: 1) a letter of application, 2) curriculum vitae, 3) a statement of research and teaching interests and accomplishments, and 4) names and contact information of at least three references. Review of applications will begin **December 13, 2012** and continue until the position is filled. Submit application materials in a single PDF file to: Search Committee Chair at wec.committee@uwyo.edu. [See here for more information.](#)

3. Assistant Professor Department of Atmospheric Sciences, University of Washington

The University of Washington seeks to expand its current expertise in climate dynamics. In pursuit of this goal, the Department of Atmospheric Sciences invites applications for a full-time (100% FTE) tenure-track faculty position to begin Autumn 2013. The successful candidate's research will focus on climate dynamics: the study of earth system processes that control climate and how it evolves. The method of study should include traditional and novel methods for analyses of observations, and may include modeling and theory. Examples of areas of emphasis could include regional and global scale climate variability, the characteristics of past and future climates, predictability of climate on seasonal to decadal time scales, changes in the hydrological cycle, or climate data assimilation.

A Ph.D. in Atmospheric Sciences or related field and a record of climate research are required. Applicants should supply a curriculum vitae, a 3-5 page statement of experience and interest in research teaching and outreach, particularly to under-served communities; and submit at least three letters of reference to: Professor David Battisti, Search Committee Chair, Department of Atmospheric Sciences, University of Washington, Box 351640, Seattle, WA 98195-1640. Please send electronic submissions to Debbie Wolf at debbie@atmos.washington.edu. Individuals with disabilities desiring accommodations in the application process should notify Debbie Wolf, (debbie@atmos.washington.edu, 206-543-4251).

Consideration of applications will begin immediately and continue until the position is filled. Priority will be given to applications received before **January 15, 2013**. The proposed starting date of employment is September 16, 2013. [See here for more information.](#)

4. Postdoctoral Fellowship in the Earth, Environmental, and Ocean Sciences Columbia's Lamont-Doherty Earth Observatory

Columbia's LDEO invites applications for postdoctoral fellowships in the earth, environmental and ocean sciences. Candidates should have recently completed their Ph.D., or expect to finish by September 2013. Lamont-Doherty researchers work to understand the dynamics of earth's chemical, physical and biologi-

cal systems, from its inner core to upper atmosphere, as well as its interactions with humans. Successful candidates have a record of scientific excellence and a clearly expressed plan to investigate problems at the forefront of earth science.

Our scientists lead research in the fields of solid earth dynamics (e.g. seismology, geodesy, mantle dynamics, petrology/geochemistry, earthquake and rock mechanics, marine and continental tectonics/geology/geophysics), ocean and atmospheric dynamics (e.g. climate/paleoclimate, climate forecasting, physical/chemical oceanography) and life sciences (e.g. biological oceanography, biogeosciences, plant physiology, paleontology). Applications from all fields are encouraged.

The fellowship lasts 21 months and includes a \$58,000 annual stipend and a \$5,000 research allowance. Successful candidates are encouraged to apply for external funding and may be eligible for further internal awards and positions. Researchers currently at Lamont-Doherty, or with a Ph. D. from Columbia's Department of Earth and Environmental Sciences, are ineligible. The deadline for applications is **December 21, 2012**. Winners will be announced in March, 2013. [Please apply online](#), and include PDFs of your curriculum vitae, research proposal (maximum 2 pages), list of publications, references and employment history.

5. Postdoctoral Scholar Program Woods Hole Oceanographic Institution

Eighteen-month Postdoctoral Scholar awards are offered annually to recipients of new or recent doctorates in the fields of chemistry, engineering, geology, geophysics, mathematics, meteorology, physics, and biology as well as oceanography. The competitive awards are designed to further the education and training of the applicant with primary emphasis placed on the individual's research promise. In order to be eligible for one of these awards, applicants must have received their doctoral degree within the past 2-3 years.

Requirements:

- transcripts of the applicant's complete undergraduate and graduate records (including up to date transcripts from the applicant's current university for those who have not yet completed their Ph.D.). Original or certified copies of transcripts must be sent via postal mail - electronic or non-certified copies will not be considered acceptable;
- a current CV or resume that shows educational background and work experiences;
- a brief synopsis of the applicant's doctoral dissertation (one page abstract);
- a minimum of three non-WHOI recommendation letters (You must ask your reference writers to submit these letters on-line. We do not contact your references to request letters.;
- a list, on a separate sheet, of graduate-level or advanced level undergraduate courses completed or in progress (for those applicants whose graduate education included formal course work); and
- a concise statement (no longer than three pages double-spaced) describing research interests, in particular those that the applicant would like to pursue at Woods Hole Oceanographic Institution, as well as more general career plans and how a postdoctoral tenure at WHOI would complement your existing experience and preparation.

The Institution-wide Postdoctoral Scholar Fellowship Application should be used for anyone interested in applying for a general WHOI, WHOI Institute, CINAR, NOSAMS or USGS postdoctoral scholar fellowship award. Applicants completing this form will be considered for all of these awards. Applicants with a particular interest in one of these specific categories should indicate their interest in the section of the application reserved for this. Application deadline is **January 5, 2013**. [Please apply at WHOI's site online](#).

6. NCAR ASP Postdoctoral Fellowship

NCAR, Boulder, CO

The National Center for Atmospheric Research (NCAR) is a research institution located in Boulder, Colorado, operated by the nonprofit University Corporation for Atmospheric Research (UCAR) under sponsorship of the National Science Foundation (NSF). Through its Advanced Study Program (ASP), NCAR offers a continuing program of postdoctoral study in the atmospheric and related sciences.

The postdoctoral program provides an opportunity for Ph.D. scientists to pursue their research interests in atmospheric and related science. The program also invites postdoctoral physicists, chemists, applied mathematicians, computer scientists, engineers, and specialists from related disciplines such as biology, geology, science education, economics, and geography, to apply their training to research in the atmospheric sciences. The primary goal of the program is to develop the careers of Ph.D. graduates. The ASP also encourages independence and creativity while providing an environment in which fellows collaborate with and are mentored by experienced scientists at NCAR.

The Advanced Study Program is now accepting applications for the postdoctoral fellowship program. [Please read the instructions for how to apply.](#) Application deadline (all materials including reference letters) is **January 14, 2013**.

7. Postdoctoral Position

Department of Earth System Science, University of California, Irvine

A postdoctoral scholar position is available in the Department of Earth System Science at the University of California, Irvine in the laboratory of Dr. James Randerson on topics related to the study of decadal-scale variability of the global biogeochemical cycles in the Community Earth System Model. Examples of potential research topics include, but are not limited to, biosphere-atmosphere feedbacks related to the representation of disturbance processes (including fires), aerosols, dynamic vegetation, land use change, or agriculture. The scholar also may develop new ways to use available carbon cycle observations to reduce uncertainties related to climate-carbon models projections of future change.

A Ph.D. in earth system science, biology, chemistry, atmospheric science, civil engineering or a related discipline is required. Experience with model development is desired, along with knowledge of programming languages such as FORTRAN, Python, R, C, or MATLAB. The successful candidate will have excellent written and oral communication skills, along with demonstrated ability to work well in a collaborative environment. For full consideration, please submit a letter of application, a curriculum vitae and the names and telephone numbers of three references by **January 15, 2013** to Jim Randerson, (jranders@uci.edu). The start date is negotiable. A 12-month commitment is expected. Pending successful performance, the position may be renewed annually for up to three years.