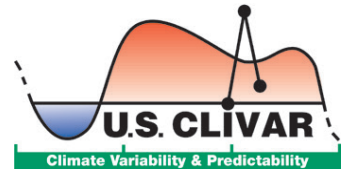


September 2012 U.S. CLIVAR Newsgram



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

Calendar of Upcoming Events

Announcements

1. New Director for International CLIVAR Project Office
2. U.S. CLIVAR Decadal Predictability WG Article in Climate Dynamics
3. SPURS Campaign Begins in the Atlantic
4. U.S. CLIVAR GRISO WG Deliver Presentation to U.S. Agency Managers
5. IASCLiP Reps Brief U.S. Agency Managers/Plan Meeting at NOAA Workshop
6. CFSv2 Evaluation Workshop Presentations Online/Journal Special Issue Proposed
7. National Academies Press Releases "Earth Science and Applications from Space: A Midterm Assessment of NASA's Implementation of the Decadal Survey"

Announcements of Opportunity

1. NSF Graduate Research Fellowship Program
2. NASA Postdoctoral Program

Meetings and Workshops

1. Webinar: A National Strategy for Advancing Climate Modeling
2. Save the Date: Feb 6-8, 2013 - ENSO Diversity Workshop, Boulder, CO
3. 4th WGNE Workshop on Systematic Errors in Weather and Climate Models - Call for Abstracts
4. WGOMD-SOP Workshop on Sea Level Rise - Registration Open/Call for Abstracts
5. ASLO 2013 Aquatic Sciences Meeting: Learning for the Future
6. American Geophysical Union - Meeting of the Americas

Position Announcements

1. Assistant/Associate Professor in Global Change Oceanography, University of South Carolina
2. Research/Faculty Position, CICESE, Baja California, Mexico
3. Faculty Positions in Theory and Modeling of Weather-Climate Interactions and Ocean-Atmosphere Interactions or Climate-Cryosphere Dynamics, University at Albany, SUNY
4. Director, Atmospheric Sciences Research Center, University of Albany
5. Two Post-Doctoral Positions for MJO Modeling, RSMAS, University of Miami
6. Post-doc Position with Exploration, Visualization, and Analysis Working Group, DataOne
7. Post-doc Position, IMK, Garmisch-Partenkirchen, Germany
8. Post-doc Position, CLIMES, Berkeley, CA
9. OCE Post-doc Fellow, Ocean Change and Sea Level Rise, CSIRO, Hobart, Tasmania
10. Post-doc Research Associates, Oregon State University
11. CIRES Post-doc Researcher/Research Associate, University of Colorado, Boulder

Calendar of Upcoming Events

NTU International Science Conference on Climate Change: Multidecadal and Beyond
<http://www.tims.ntu.edu.tw/workshop/Default/index.php?WID=137>
September 17-21, 2012
Taipei, Taiwan

[International Conference on North Atlantic Climate Variability](#)
September 24-26, 2012
Hamburg, Germany

15th Session of the Working Group on Seasonal to Interannual Prediction and
16th Session of the Working Group on Coupled Modeling
September 24-26, 2012
Hamburg, Germany
By invitation

[20 Years of Progress in Radar Altimetry Symposium](#)
September 24-26, 2012
Venice, Italy

[4th Argo Science Workshop](#)
September 27-29, 2012
Venice, Italy

[AGU Chapman Conference on The Agulhas System and its Role in Changing Ocean Circulation, Climate, and Marine Ecosystems](#)
October 8-12, 2012
Stellenbosch, Western Cape, South Africa

[Open Science Symposium on Western Pacific Ocean Circulation and Climate](#)
October 15-17, 2012
Qingdao, China

9th Meeting of the CLIVAR/IOC-GOOS Indian Ocean Panel
October 15-20, 2012
Cape Town, South Africa
By invitation

[NOAA's 37th Climate Diagnostics and Prediction Workshop](#)
October 22-25, 2012
Fort Collins, CO

IASCLiP Meeting
October 23, 2012 (7:00-8:30pm)
Hilton, Fort Collins, CO

[Workshop on Variability in the Western Tropical Pacific: Mechanisms, Teleconnections and Impacts on Sub-Seasonal, Inter-Annual and Inter-Decadal Time Scales](#)
November 12-16, 2012
Trieste, Italy

[WCRP/CLiC EGU ESA ESRIN Earth Observation and Cryosphere Science Conference](#)
November 13-16, 2012
Frascati, Italy

[Integrated Ocean Observing System \(IOOS\) Summit 2012](#)
November 13-16, 2012
Herndon, VA

[WCRP/SPARC Workshop on Southern Hemisphere and South America](#)
November 26-27, 2012
Buenos Aires, Argentina

CLIVAR/GSOP Ocean Synthesis and Air-Sea Flux Evaluation Workshop
November 27-December 1, 2012
Woods Hole, MA
By invitation

6th Meeting of the Global Synthesis and Observations Panel
November 30-December 1, 2012
Woods Hole, MA
By invitation

[AGU Fall Meeting](#)
December 6-10, 2012
San Francisco, CA

Announcements

1. New Director for International CLIVAR Project Office

The [International CLIVAR](#) Project Office announces the selection of its new Director, Roger Barry, Distinguished Professor Emeritus of the University of Colorado. Roger joins members of the team based in Southampton, UK, at the National Oceanography Centre, where he'll be taking over from Catherine Beswick, who has been Acting Director since Bob Molinari's departure at the beginning of the year. Roger has an impressive background in both science and management, and with his wealth of experience, will no doubt successfully lead the project office over the coming months as they transition to the 'new' CLIVAR.

2. U.S. CLIVAR Decadal Predictability WG Article in Climate Dynamics

Members of the [U.S. CLIVAR Working Group on Decadal Predictability](#) have just published a paper in Climate Dynamics entitled "[A verification framework for interannual-to-decadal prediction experiments.](#)" The paper presents consistent metrics for evaluating forecast quality across predictions systems, and guidance on the use of model predictions including correction of mean and conditional biases, and consideration of how best to approach forecast uncertainty.

3. SPURS Campaign Begins in the Atlantic

On September 6, the [Salinity Processes in the Upper Ocean Regional Study](#) (SPURS) launched with a six-week research cruise aboard the Woods Hole Oceanographic Institution's R/V Knorr to study processes that determine and change the salinity in the upper ocean and to ground truth in-situ measurements for calibrating satellite salinity estimates (from Aquarius and SMOS). Follow along with the cruise through Dr. Eric Lindstrom's [SPURS blog](#). This fall's field campaign, sponsored by NASA, NSF, NOAA and European partner agencies, is focused on the relatively dry high-salinity region of the North Atlantic gyre. A second SPURS campaign (circa ~2015) hopes to examine processes in a "wet" sector of the ocean, where rain far exceeds evaporation, freshening surface waters.

4. U.S. CLIVAR GRISO WG Deliver Presentation to U.S. Agency Managers

Members of the U.S. CLIVAR Greenland Ice Sheet-Ocean Interactions (GRISO) working group visited Washington, D.C. in August to update U.S. agency managers from NASA, NOAA, NSF & DOE on the status of their project and highlight the findings from their white paper: [View/download the white paper and presentation on the GRISO webpage.](#)

5. IASCLiP Reps Brief U.S. Agency Managers/Plan Meeting at NOAA Workshop

Art Douglas and Vasu Misra recently visited Washington D.C. to brief agency managers on the IASCLiP program. [The presentation is available to view/download on the U.S. CLIVAR website.](#)

IASCLiP PIs and other researchers interested in the climate of the Intra America Seas region are invited to attend an informal meeting at NOAA's 37th Climate Diagnostics and Prediction Workshop at the Hilton Hotel in Fort Collins, CO on Tuesday October 23rd from 7:00PM to 8:30PM. Topics to be considered and discussed include: 1) briefing by Art Douglas and Vasu Misra for U.S. funding agencies organized by U.S. CLIVAR; 2) research priorities for the next four years; 3) possible request by IASCLiP to the AMS for a BAMS overview of the program (PIs to submit current research results and future plans for the program); and 4) review of the Steering Committee and Working Group membership and leadership.

6. Post-CFSv2 Evaluation Workshop: Presentations Online/Special Issue of Climate Dynamics

As a follow-up to the CFSv2 Evaluation Workshop, a special CFSv2 Issue of Climate Dynamics has been accepted. Currently, 35 papers are expected. Please feel free to contribute or pass along to interested colleagues. December 12, 2012 is the tentative submission date. Email Jin Huang (jin.huang@noaa.gov) for more information. All presentations from the CFSv2 Evaluation Workshop have been posted [online at NOAA/CPC](#).

7. National Academies Press Releases “Earth Science and Applications from Space: A Midterm Assessment of NASA’s Implementation of the Decadal Survey”

The 2007 National Research Council report on decadal survey called for a renewal of the national commitment to a program of Earth observations in which attention to securing practical benefits for humankind plays an equal role with the quest to acquire new knowledge about the Earth system. NASA responded favorably and aggressively to this survey, embracing its overall recommendations for Earth observations, missions, technology investments, and priorities for the underlying science. Earth Science and Applications from Space: A Midterm Assessment of NASA’s Implementation of the Decadal Survey recommends a number of steps to better manage existing programs and to implement future programs that will be recommended by the next decadal survey. The report also highlights the urgent need for the Executive Branch to develop and implement an overarching multi-agency national strategy for Earth observations from space, a key recommendation of the 2007 decadal survey that remains unfulfilled. View/download the report here: http://www.nap.edu/catalog.php?record_id=13405

Announcements of Opportunity

1. NSF Graduate Research Fellowship Program (GRFP)

The NSF has released the 2013 Solicitation for their Graduate Research Fellowship Program (http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6201). This program provides an excellent opportunity for support of CLIVAR-relevant graduate student projects. The program recognizes and supports outstanding graduate students who are pursuing research-based master’s and doctoral degrees in fields within NSF’s mission. The GRFP provides three years of support for the graduate education of individuals who have demonstrated their potential for significant achievements in science and engineering research.

Fellowship applications must be submitted by the prospective Fellow. Applicants must register with [Fastlane](#) prior to submitting an application. Confirmation of acceptance in an NSF-approved graduate degree program is required at the time of Fellowship acceptance, by May 1, 2013. Prospective Fellows must enroll in an accredited United States university, college, or non-profit academic institution of higher education offering advanced degrees in science and engineering by Fall 2013. Application Deadline (Geosciences): **November 19, 2012**, (submitted by 8pm EST).

2. NASA Postdoctoral Program (NPP)

The NASA Postdoctoral Program offers one to three year post-doctoral fellowships for highly talented national and international individuals to engage in research at NASA Centers, or at a NASA-affiliated research institution. There are also opportunities via this program to perform science administration work at NASA Headquarters. Although primarily for recent doctoral graduates, ‘senior’ NPP fellowships can also be awarded to researchers who have been active in their field for a substantial amount of time.

Annual application deadlines are March 1, July 1, and **November 1**. Each deadline is 6:00 p.m. U.S. Eastern Time. Late applications are considered in the next round. Only one application may be submitted per application cycle. For more information or to apply, visit the [NPP website](#).

Meetings and Workshops

1. Webinar: A National Strategy for Advancing Climate Modeling September 28, 2012 at 1:30pm EDT

The [NAS Committee on a National Strategy for Advancing Climate Modeling](#) is holding a webinar on a national strategy for advancing climate modeling at 1:30pm EST on September 28. At this webinar, committee chair Chris Bretherton and committee members V. Balaji and Ruby Leung will discuss this study's strategy for improving the nation's capability to accurately simulate climate and related Earth system changes on decadal to centennial timescales. For [more information and to register, visit the NAS website](#).

2. Save the Date: U.S. CLIVAR ENSO Diversity Workshop Boulder, CO February 6-8, 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. Further information about logistics, registration, and abstract submission will be provided at www.usclivar.org in late September.

3. 4th WGNE Workshop on Systematic Errors in Weather and Climate Models - Call for Abstracts Exeter, UK April 15-19, 2013

The JSC/CAS Working Group on Numerical Experimentation (WGNE) is organizing a workshop on systematic errors in weather and climate models to be hosted at the Met Office, Exeter, UK, during April 15-19, 2013.

Submission of abstracts for this workshop are now requested at the [Met Office website](#) with a closing date of **October 31, 2012**. All studies aimed at understanding and reducing systematic errors in general circulation models are welcome. This includes work at any timescale from short range NWP through to multi-centennial climate simulations (and all timescales in between). Of special interest will be studies that consider errors found in multiple models and errors which are present across timescales. 'Top-down' understanding of biases through diagnostic techniques and 'bottom-up' model improvements from pro-

cess models/observational constraints are both welcome, and biases in the atmosphere, land surface, ocean and cryosphere are all of interest. Work looking at model errors in the following areas are within the scope of the meeting (this list is not exhaustive):

- Tropical processes (Convective processes, MJO, ENSO, AEWs, tropical cyclones, etc.)
- Mid-latitude processes (Evolution of synoptic features, storm tracks, blocking, etc.)
- Sea ice and polar processes
- Clouds, aerosols and radiation
- Land surface processes
- Ocean processes and ocean-atmosphere interactions
- Stratospheric processes and stratosphere-troposphere interactions
- Holistic model evaluation and metrics

4. **[WGOMD-SOP Workshop on Sea Level Rise](#) - Registration Open/Call for Abstracts
CSIRO, Hobart, Australia
February 18-20, 2013**

The workshop aims to bring together leading international scientists and early career scientists from the ocean, ice-sheet, ice-shelf, and sea level rise modeling and observational communities to:

- Identify priorities for reducing uncertainties in the projections of global and regional sea-level rise,
- Evaluate the state-of-science of ocean and land-ice interactions,
- Investigate pathways for the development of the next generation of climate models incorporating interactive land-ice components.

Sessions will cover sea level rise, ocean-ice-shelf interactions, ice-sheet observation and modeling, ice-sheet - ice-shelf interactions, and related ocean modeling. The workshop will consist of invited overview talks, invited more specialized talks by early career scientists, and contributed oral and poster presentations. The overview talks will review and encourage the discussion of the current state of research related to a particular topic with candid and critical comments. A key outcome of the workshop is the interaction that it will facilitate among various groups that are working on different aspects of sea-level change science. Workshop participants will be encouraged to disseminate the outcomes of the workshop through a planned Special Issue of CLIVAR Exchanges. For more information, to register, submit abstracts and apply for travel support, visit the [workshop website](#).

5. **[ASLO 2013 Aquatic Sciences Meeting: Learning for the Future](#)
February 17-22, 2013
New Orleans, LA**

The Aquatic Sciences Meeting will be held on February 17-22, 2013, at the Ernest N. Morial Convention Center in New Orleans, Louisiana. Under the theme “Learning for the Future,” the meeting will bring together scientists, engineers, students, educators, policy makers and other stakeholders to learn from the past and look to the future of aquatic sciences. ASLO invites the submission of abstracts for oral and poster presentations for the 2013 Aquatic Sciences Meeting. In order to have your abstract considered for acceptance, you must submit before the abstract deadline of Friday, **October 5, 2012**. For more information, visit the [ASLO Meeting website](#).

6. American Geophysical Union - Meeting of the Americas

Cancun, Mexico

May 14-17, 2013

The American Geophysical Union - Meeting of the Americas is being held in Cancun, Mexico, May 14–17, 2013. To propose a special session for the AGU Meeting of the Americas 2013, please, visit the [Session Proposal section](#) for more details. All proposals must be received by **Wednesday, October 17, 2012**.

The Program Committee is developing a Union-wide science program that will cover topics in all areas of geophysical sciences. Sandy beaches and turquoise waters together with Mexican hospitality make this a unique site for another successful Joint Assembly!

Position Announcements

1. Assistant/Associate Professor in Global Change Oceanography

Marine Science Program & Dept. of Earth and Ocean Sciences, University of South Carolina

The [Marine Science Program](#) and the [Department of Earth and Ocean Sciences](#) at the University of South Carolina invite applications for a jointly appointed, tenure-track, assistant or associate professor position in Global Change Oceanography. The position is a 9-month academic year appointment. A Ph.D. is required at the time of appointment. Post-Doctoral experience is required.

Looking for an individual with outstanding research and teaching capabilities to complement existing programs in physical, chemical, biological and geological oceanography. Specifically, seeking a marine scientist with interests in examining oceanic responses to changes in climate on modern or geologic timescales. The ideal candidate will have already established themselves as a versatile and “broad thinking” marine scientist whose research has impacts on a global scale. The successful candidate is expected to teach undergraduate and graduate courses in marine science, and to direct an active externally funded research program.

Applicants should include with their application their curriculum vita, a statement of research and teaching interests, and the names, addresses, emails, and phone numbers of at least three references. A pdf file containing this information should be sent electronically to: globalchange2012@geol.sc.edu. For more information, please contact: Dr. Tammi Richardson, Chair, Global Change Oceanography Search Committee by email (tammirichardson@gmail.com), or Kelly Hamilton, Administrative Assistant, Marine Science Program, University of South Carolina, 701 Sumter Street, EWS 617, Columbia, SC 29208 (globalchange2012@geol.sc.edu). To ensure full consideration, applications should be submitted by **October 1st, 2012**.

2. Research/Faculty Position

Physical Oceanography Dept., CICESE, Ensenada, Baja California, Mexico

The [Department of Physical Oceanography at CICESE](#) in Ensenada, Baja California, Mexico, invites applications for a research/faculty position in the area of Physical Oceanography. We seek young or experienced candidates with a Ph.D., capable of conducting independent research in physical oceanography, and qualified to lead or participate in research projects and peer reviewed publications. We are particularly, but not exclusively, interested in qualified applicants with specialty in coastal and estuarine hydrodynamics, marine renewable energy, ocean-atmosphere modeling or air-sea coupled modeling related to climate studies.

Candidates should have the ability to conduct an active, extramurally funded, research program. Successful candidates are expected to teach oceanography or meteorology courses at the graduate level and supervise graduate students.

Applicants should submit electronically the following documents: 1) Curriculum vitae, 2) Statement of research and teaching interests, 3) Three letters of recommendation. For submission and any further inquiries please contact Dr. Luis Zavala Sansón (lzavala@cicese.mx). The review process will continue until the position is filled.

3. Faculty Positions in Theory and Modeling of Weather--Climate Interactions and Ocean-Atmosphere Interactions or Climate-Cryosphere Dynamics, Department of Atmospheric and Environmental Sciences, University at Albany, SUNY

The [Department of Atmospheric and Environmental Sciences](#) (DAES) of the University at Albany, State University of New York, seeks applicants at the Assistant (tenure track) or Associate Professor level, effective Fall 2013. This is a 10-month appointment that allows supplementary summer salary from research funding. We are seeking to fill one position from candidates with expertise in the theory and modeling of weather-climate interactions and a second position in either Ocean--Atmosphere Interactions or Climate-Cryosphere Dynamics and Feedbacks. Candidates whose research specialization complements existing research programs in the department are particularly encouraged to apply.

The position will remain open until filled; however, priority will be given to applications received by **November 1, 2012**. Qualified candidates should submit a detailed curriculum vitae (including publication reprints), a statement of research and teaching goals, and the names and contact information of three references through [Interview exchange](#). For more information about this announcement including deadlines please refer to the [Human Resources website](#) or contact Ryan Torn (rtorn@albany.edu, 518-442-4560).

4. Director Atmospheric Sciences Research Center, University of Albany, NY

The [Atmospheric Sciences Research Center](#) (ASRC) at the University at Albany seeks outstanding candidates for the position of Director. ASRC performs world--class research to study the physical and chemical nature of the atmosphere and to apply that knowledge to study the interaction of chemical, physical, geological and biological processes impacting our environment. The Center serves to enhance the scientific capacity and infrastructure of New York State, and through technology transfer and collaboration with its university, state, federal and industrial partners, to advance the quality of life and economic well being of its citizens. In total, the University at Albany boasts one of the largest concentrations of atmospheric science researchers in the country and seeks to grow that strength further. Over the past ten years the Center and the Department of Atmospheric and Environmental Sciences (DAES) have garnered over 60 million dollars in research awards.

The Director of ASRC provides management, strategic planning and direction of the Center and is responsible for the supervision of a staff of research scientists and support staff. The Director works closely with the Chairs of DAES and Chemistry to engage state, federal, and corporate stakeholders. The successful candidate will be expected to maintain a significant research portfolio and contribute to the graduate program (i.e., teaching graduate students) in one or more of the university's academic departments. The Director reports directly to the Vice President for Research.

Qualifications: 1) PhD in physical or engineering sciences or closely related field from a college or university accredited by U.S. Dept of Education or internationally recognized accrediting organization; 2) At least ten years of research experience and research credentials demonstrating accomplishments at a level equivalent to the rank of a full professor in the candidate's field of research; 3) Demonstrated research leadership skills, success as a program administrator, and interpersonal and supervisory skills; 4) Applicants must address in their applications ability to work with a culturally diverse population.

Special Notes: Salary is competitive and negotiable based on credentials and experience. A tenured faculty appointment is possible with the concurrence of the appropriate academic department. The search commenced June 1, 2012 and will remain open until the position is filled. For questions, contact search committee co-chairs Richard Perez (rperez@albany.edu) or Scott Miller (smiller@albany.edu). For further details and application, visit [Interview Exchange](#).

5. Two Post-doctoral Positions for MJO Modeling RSMAS, University of Miami

The [Rosenstiel School of Marine and Atmospheric Science](#) (RSMAS) at the University of Miami invites applications for two post-doctoral positions in the Division of Meteorology and Physical Oceanography. Skills sought are: strong backgrounds in numerical modeling and physics of tropical convective systems. Successful candidates are expected to join a research team consisting of scientists from multiple institutes to conduct research using field observations to evaluate and improve simulations of cloud systems related to the Madden-Julian Oscillation (MJO) by cloud-permitting models of global, regional and local domains. One postdoctoral associate will be located at the National Center for Atmospheric Research (NCAR). Another will work closely with scientists from University of Miami, Harvard, and NASA Goddard. Both are expected to participate in model-observation comparisons and model improvement.

Interested applicants should submit a cover letter stating research interest, curriculum vitae, and a list of names and addresses (including email addresses) of three professional references to: Prof. Chidong Zhang, Division of Meteorology and Physical Oceanography, Rosenstiel School of Marine and Atmospheric Science, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149-1098 (Tel 305-421-4042, Fax 305-421-4696, Email czhang@rsmas.miami.edu). The appointment will be initially one year, renewable up to three years.

6. Post-doctoral Position

DataONE: Exploration, Visualization, and Analysis Working Group, New York, NY

The Data Observation Network for Earth ([DataONE](#)) is recruiting a post-doctoral associate to work with the Exploration, Visualization, and Analysis Working Group of DataONE. This is a full-time, 12-month position initially for one year, but renewable for one year pending progress and availability of funds. Applications will be accepted starting immediately and will be accepted until the position is filled.

The post-doctoral researcher will work with an interdisciplinary team of researchers from across the country, and be an integral member of the [DataONE Exploration, Visualization, and Analysis Working Group](#). The main thrust of the work is research, development, and use of advanced Visualization and Analysis systems in modeling studies for carbon cycle, climate, hydrology, and ecological impacts.

Required Qualifications: Candidates should have a Ph.D. in computer science, with an expertise in advanced interactive visualization techniques. We seek a candidate with superior oral and written communication skills, excellent organizational skills, and strong personal motivation. The candidate must have knowledge and practical experience in developing and using visualization software such as VisTrails or

UV-CDAT or other advanced Visualization packages. Familiarity with other visualization tools like IDV, NCL (NCAR Command Language), IDL, or others is an advantage; experience with acquiring and managing spatial data and familiarity with applying basic ecological and geographical principles within a spatial modeling framework is highly desirable. The candidate must have experience in using Python, PERL, or other languages for managing high-volume complex data. The candidate should have familiarity with UNIX and Windows operating systems.

The candidate should be willing to work closely with other research staff in multiple capacities including contributing to a team designed to develop integrated ecological models and supporting the Visualization and Analysis needs of research team members. Responsibilities include managing and updating multiple spatial data sets, acquiring and assimilating new relevant spatial data sets, using geospatial and other environmental data. Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment. The post-doc will be mentored and supervised by the DataONE PI, Dr. William Michener (UNM, USA) and Dr. Claudio Silva (NYU, USA). The position will be based at the Visualization and Data Analysis Group at NYU in New York, NY.

Interested candidates should send a CV, a brief statement of interest in this position, and a list 3 references and their contact information to Claudio Silva (csilva@nyu.edu) and Rebecca Koskela (Executive Director of DataONE; rkoskela@unm.edu), DataONE, University of New Mexico, 1312 Basehart Drive SE, MSC04 2815, Albuquerque, NM 87106. Inquiries for further information about the position are welcome. Salary and benefits for this position are competitive and commensurate with the applicant's qualifications and experience.

7. Post-doctoral Position

EU-FP Project "Operational Potential of Ecosystem Research Applications" (OPERAS), Institute of Meteorology and Climate Research (IMK), Garmisch-Partenkirchen, Germany

Within OPERAS, the main tasks of the post-doctoral researcher will be to quantify ecosystem responses to climate change and human land use/land cover change. Research should aim at working with existing, and at developing new methods that can contribute to an ecosystem-services analysis and application framework. The researcher will use the process-based dynamic vegetation model LPJ-GUESS, and contribute to refining the model's most recent developments regarding representation of coupled carbon and nitrogen cycles, and human land management. The post-doctoral researcher will also play an active role in contributing to OPERAS project meetings, the annual project reporting, and provide assistance in the general steering of some of the cross-project tasks.

The researcher will be placed in the IMK-IFU's research group on plant-atmosphere interactions. The project is done in close collaboration with a number of institutions in Europe. The appointee must be willing to visit partner institutions, and have very good spoken and written skills in communicating in the English language. For further details see: <http://imk-ifu.fzk.de/jobs.php>.

8. Post-doctoral Position

Center at Lawrence Berkeley National Laboratory for Integrative Modeling of the Earth System (CLIMES), Berkeley, CA

The Center at Lawrence Berkeley National Laboratory for Integrative Modeling of the Earth System (CLIMES) has an exciting opportunity for a postdoctoral researcher to evaluate the hydrological components of an integrated Earth System Model (iESM) in preparation for coupling with a water-sector economic model. The iESM is a novel integration of comprehensive community models for the energy-sector

and the global climate. The primary goal is to characterize the hydrological impacts of changing land use and conditions in the context of projected changes in climate and energy/water demands.

The post-doc would join a rapidly expanding team at LBNL conducting innovative research in abrupt and extreme climate change, ice-sheet simulation, carbon and methane cycle measurement and modeling, integrated assessment, and advanced numerical methods for climate dynamics. Tasks include historical validation, sensitivity analyses, calibration, and experiments to evaluate hydrological impacts of new components and projected climate, land use, and energy demand. The individual will work closely with earth system and integrated assessment scientists at LBNL and other DOE National Laboratories. For more details on the position and to apply, please visit the [online job listing](#).

9. OCE Post-doctoral Fellow-Ocean Change and Sea Level Rise CSIRO, Hobart, Tasmania

A unique opportunity for a suitably qualified individual to gain a prestigious Office of the Chief Executive (OCE) Postdoctoral Fellowship with CSIRO Marine and Atmospheric Research (CMAR). The Postdoctoral Fellow will work on a research project detecting sea-level change and identifying the underlying processes responsible for such change using state-of-art climate models (that is detection and attribution, D&A), and to understand the regional distribution of sea-level rise.

Specifically you will: 1) Determine the sea level (and ocean) change fingerprint for various climate forcings (particularly greenhouse gases and aerosols) in climate model simulations; 2) Determine the robustness of these fingerprints to natural variability and model formulation; 3) Rigorously compare the simulations with various sea-level and ocean observations to detect and attribute the changes; 4) Attempt to constrain projections of global averaged and regional change using the D&A formalism; 5) Publish results in scientific journals and through seminars and conference presentations

To be successful you will have: 1) Demonstrated understanding of the oceans role in climate change and other relevant climate change research issues; 2) Demonstrated experience with computational and statistical methods of climate science and oceanography, in particular the ability to synthesize diverse data sets to aid interpretation and draw conclusions; 3) Capacity to carry out original, independent, and innovative research with a minimum of direct supervision; 4) Sophisticated programming skills to analyse large model data sets and compare them rigorously to observations; 5) Effective communication skills and demonstrated ability to publish research results in both written and oral presentations and an ability to work with colleagues (modelers and observationalists) to help understand ocean and sea-level change.

Location: Hobart, Tasmania. Salary: \$78K - \$85K plus up to 15.4% superannuation. Tenure: 3 year term. Ref No: TAS12/03178. To apply, [visit the CSIRO website](#) and search for position TAS1203178. Applications close on **October 31, 2012**.

10. Post-doctoral Research Associates College of Earth, Ocean, and Atmospheric Sciences, Oregon State University

The [College of Earth, Ocean, and Atmospheric Sciences \(CEOAS\) at Oregon State University](#), Corvallis, Oregon, invites applications for two Institutional Postdoctoral Research Associate positions. One of these positions will focus on the human dimension of the Earth System and Geographical Sciences. The other will address physical, chemical, biological, and/or geological aspects of the Earth System, including but not limited to oceanic and/or atmospheric processes, climate variability and change, solid earth and sedimentary processes, coastal processes, ecological and biogeochemical processes, and modeling on all scales.

Appointment: Starting postdoctoral full-time annual salary range is \$50,000-\$54,000, plus benefits. If renewed, the appointee's university-funded FTE would be 0.75 in the second year and 0.5 in the third year. FTE may be increased with external funding generated by the appointee in collaboration with the faculty mentors (not to exceed 1.0). Successful candidates will be paired with suitable faculty mentors for training in the development and submission of fundable research proposals, research collaboration, and publication of results. CEOAS institutional post-docs will be encouraged to seek external funding, and may serve as Principal Investigator, or co-Principal Investigator, on grant proposals. Following the postdoctoral training period, an opportunity may exist, based on mutual agreement of the College and the candidate, and in accordance with university procedures, to change the position to a research or tenure-track status.

Responsibilities and Duties: Perform basic research in the themes of Earth System Science and/or Management as part of OSU's strategic priority in the area of Advancing the Science of Sustainable Earth Ecosystems. Develop a program of research that contributes to the field and external funding of a research program. Research activities are expected to result in publications that advance the knowledge and understanding of the natural and human-impacted earth systems, planets, or management. Results of research will lead to peer-reviewed journals and conference proceedings. Research duties may include developing and implementing research studies, collecting and analyzing data, modeling, and statistical analysis and interpretation of the results. The individual's role in the research will be as an independent investigator, and as a collaborator with PIs in the research theme. Perform service that contributes to the College, University and the profession. This may include teaching activities such as guest lecturing, classroom instruction, course and curriculum development, and interacting with students informally in regards to academic program, research projects, and career direction. Grant preparation and submission to agencies and foundations to gain external funding; preparation of peer-reviewed journal articles and presentations at professional conferences.

Qualifications: Candidates are required to have completed the Ph.D. degree in the general area of Earth System Sciences or a related field prior to beginning this appointment. Excellent command of the English language, quantitative analytical skills (appropriate to their field), and excellent written and verbal communication skills are required. Preference will be given to candidates with a strong publication record, a demonstrable commitment to seeking external funding, and research interests aligned with the [CEOAS strategic hiring plan](#). A demonstrable commitment to promoting and enhancing diversity is preferred.

To Apply: See <http://oregonstate.edu/jobs> posting 0009314 for online instructions. Applications must include a curriculum vita with publication list, undergraduate and graduate school transcripts, names and addresses of three referees willing to write confidential letters of recommendation, and a two-page statement of proposed work, including identification of possible CEOAS faculty mentors. We encourage applicants to contact faculty members with research interests fitting the proposed work. For questions regarding the application process contact CEOAS Human Resources Coordinator Sarah Haluzak, 541-737-5194, shaluzak@coas.oregonstate.edu

Closing date: For full consideration apply by September 1. Final position closing date is **October 1, 2012**. Selection: Awards are competitive, with a major emphasis on potential for independent, creative research. Candidates will be selected based on overall excellence, including academic qualifications, letters of recommendation, and a statement of proposed work that is compatible with the CEOAS research themes as outlined on the college website.

11. CIRES Post-doctoral Researcher/Research Associate University of Colorado, Boulder

The [Cooperative Institute for Research in Environmental Sciences](#) (CIRES) at the University of Colorado Boulder has an immediate opening for a Research Associate (Postdoctoral Researcher) to assist in a study of precipitation, surface mass balance and the stable isotope record of snow on the Greenland ice sheet. The research seeks to combine atmospheric and snow surface modeling with data collected from Summit station to improve understanding of processes that control the isotopic composition of snow. Expertise in atmospheric modeling and working with complex datasets is essential. Experience with optical precipitation probes, eddy covariance methods or cavity enhanced spectroscopic trace gas measurements is desirable. Other duties will include assisting in maintaining advanced meteorological and turbulence instruments at Summit, ensuring flow and management of data and helping in project reporting. The ideal candidate will be a competent scientific programmer (in IDL, Matlab, Fortran, or Python). The successful candidate will be part of a vibrant research team at the University of Colorado and collaborators in the Boulder research community.

Required Education/Experience/Skills (Minimum Qualifications): A doctorate in the area of meteorology or closely related field. Special Instructions to Applicants: Further information can be obtained by contacting David Noone (dcn@colorado.edu). The position will be filled as a Research Associate at the University of Colorado Boulder and will be eligible for employee benefits, including 22 days of vacation (for a 100% position) per year. To Apply: You must formally apply at www.jobsatcu.com 819085 for this position.

Applicants must complete the Faculty/Exempt Professional and EEO Data (application form) and be prepared to upload the following required documents: 1) a cover letter that contains a statement of interest that explains your experience, 2) your current resume/cv, 3) document 1: proof of your highest degree earned, and 4) document 2: a letter of recommendation.