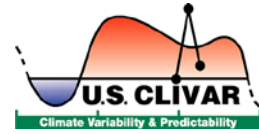


July 2012 U.S. CLIVAR Newsgram



Please forward to interested colleagues. For announcements to include in our next issue or to be removed from the newsgram e-list, email Jennifer Mays: jmays@usclivar.org.

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Calendar of Upcoming Events

2012 U.S. CLIVAR Summit	July 17-20, 2012	Newport Beach, CA
WCRP JSC-33: Joint Scientific Committee Thirty-Third Session	July 16-20, 2012	Beijing, China
Dynamics and Predictability of High-Impact Weather and Climate Events Workshop	Aug. 6-9, 2012	Kunming, China
"Using Satellite Observations to Advance Climate Models" Summer School	Aug. 6-10, 2012	Pasadena, CA
AMS 18th Conference on Air-Sea Interaction	Aug. 9-12, 2012	Boston, MA
AOGS-AGU (WPGM) Joint Assembly	Aug. 13-17, 2012	Singapore
2012 U.S. AMOC Principal Investigators Meeting	Aug. 15-17, 2012	Boulder, CO
CLIVAR/WCRP Workshop on Decadal and Multi-decadal Variability in Pacific and Indian Ocean	Sept. 4-7, 2012	Qingdao, China
Five Controversies in Climate Science: A symposium celebrating the contributions of S. George Philander	Sept. 6-7, 2012	Princeton, NJ
International Workshop on Interdecadal Variability of the Global Monsoons	Sept. 10-12, 2012	Nanjing, China
Tropical Atlantic Variability Meeting/PIRATA-17 Meeting	Sept. 10-14, 2012	Kiel, Germany
12 th Meeting of the CLIVAR Atlantic Implementation Panel	Sept. 13-14, 2012	Kiel, Germany
12 th Meeting of the CLIVAR Asian-Australian Monsoon Panel	Sept. 13-14, 2012	Nanjing, China
NTU International Science Conference on Climate Change: Multidecadal and Beyond	Sept. 17-21, 2012	Taipei, Taiwan
ICES Annual Science Conference 2012	Sept. 17-21, 2012	Bergen, Norway
3rd International Conference on Earth System Modelling	Sept. 17-21, 2012	Hamburg, Germany
Third Symposium on the Ocean in a High CO₂ World	Sept. 24-27, 2012	Monterey, CA
15th Session of the CLIVAR Working Group on Seasonal to Interannual Prediction	Sept. 24-26, 2012	Hamburg, Germany
16th Session of the CLIVAR Working Group on Coupled Modeling	Sept. 24-26, 2012	Hamburg, Germany
20 Years of Progress in Radar Altimetry Symposium	Sept. 24-26, 2012	Venice, Italy
International Conference on North Atlantic Climate Variability	Sept. 24-26, 2012	Hamburg, Germany
U.S. CLIVAR ENSO Diversity Workshop (<i>save the date: more info soon</i>)	October 4-5, 2012	Boulder, CO

AGU Chapman Conference on The Agulhas System and its Role in Changing Ocean Circulation, Climate, and Marine Ecosystems	Oct. 8-12, 2012	Stellenbosch, Western Cape, South Africa
Open Science Symposium on Western Pacific Ocean Circulation and Climate <i>Abstract Submission Extended: August 15</i>	Oct. 15-17, 2012	Qingdao, China
6 th Meeting of the CLIVAR/IOC-GOOS Indian Ocean Panel	Oct. 15-20, 2012	Cape Town, South Africa
NOAA's 37th Climate Diagnostics and Prediction Workshop <i>Abstract Submission Extended: August 1</i>	Oct. 22-25, 2012	Fort Collins, CO

Announcements

1. U.S. CLIVAR Launches New Website

The U.S. CLIVAR Project Office is pleased to announce the release of the updated U.S. CLIVAR website at www.usclivar.org. A few of the significant improvements to the website include improved site structure, straightforward navigation, meeting pages and a current calendar of events. We encourage you to spend some time navigating the site and hope you find it both informative and useful. Make sure you check out the new electronic subscription options for the U.S. CLIVAR newsletter and newsgram.

This is the first phase of several that will update the U.S. CLIVAR website over the next several months. Stay tuned for more updates in the near future. We welcome you to submit any comments or suggestions you might have by completing the contact form at <http://www.usclivar.org/contact/contact-us>.

2. NOAA Releases 'State of the Climate in 2011'

The [State of the Climate in 2011](#) report was released earlier this week by the NOAA's National Climatic Data Center. The report focused on the addition of new climate indicators to further understanding of global climate. Some of the report highlights include: understanding the influence of La Nina on climate events, arctic amplification, drought in U.S., and continuing long-term trends of increasing atmospheric CO₂, and upper ocean heat content. The 'State of the Climate in 2011' is a supplement to the July 2012 issue (Vol. 93, No. 7) of the [Bulletin of the American Meteorological Society](#) (BAMS).

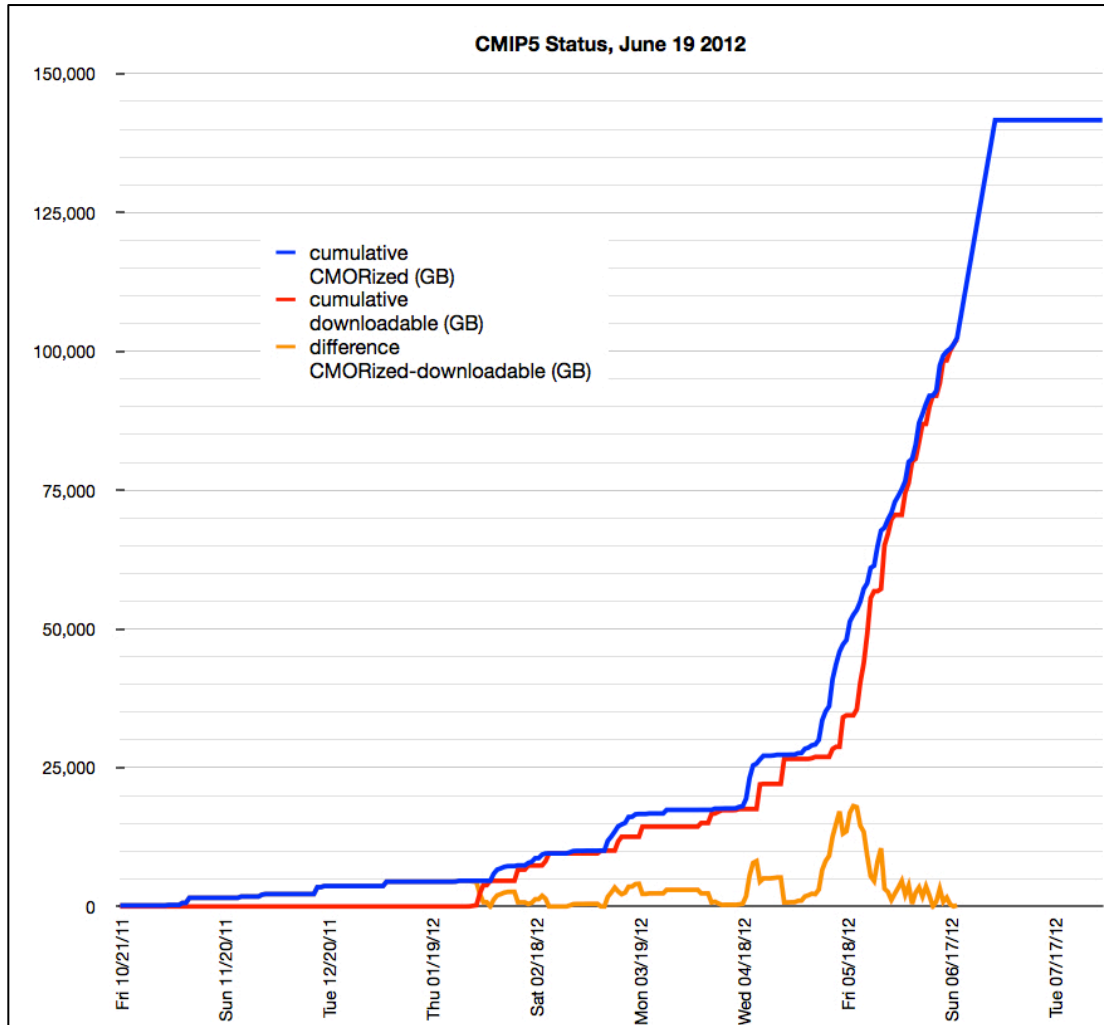
3. WGA and NOAA Release 'Climate Impacts and Outlook'

The Western Governors' Association (WGA) and NOAA released their first [Quarterly Climate Impacts and Outlook](#) aimed at assisting policymakers as they prepare for drought and other extreme weather events. The *Outlook* offers a quick overview of climate conditions throughout the Western states. For example, the precipitation outlook for summer 2012 shows enhanced odds for below-median total seasonal precipitation for parts of the Northwest and enhanced odds for above-normal temperatures for most of the Southwest. This tool is the latest effort of WGA and NOAA to improve the development and delivery of climate science and services to Western states. The Outlook is available online at WGA's [Drought, Fire and Extreme Events](#) page and NOAA's drought.gov site.

4. Update on NCAR CMIP5 Dataset Availability via Earth System Grid

Since the May 25 newsgram report on NCAR CMIP5 dataset availability, when 38% (not 14% as reported) of the total data volume expected to be available (136TB) was served via the Earth System Grid, NCAR reports great strides in closing the gap. As of July 4, 2012, 92% of the total expected is downloadable. For information on specific dataset availability, visit: http://www.cgd.ucar.edu/ccr/CMIP5_Status/

The following graph tracks the status of published NCAR CMIP5 data since October 2011.



5. New Publications from the National Academies and National Research Council

The National Academies has released a new publication, "[Computing Research for Sustainability](#)", focused on "greening through IT" to highlight how computer science research and information technology can promote sustainability.

The Division on Earth & Life Studies of the National Academies has released a report on sea level rise at the western U.S. coast, "[Sea-Level Rise for the Coasts of California, Oregon, and](#)

[Washington: Past, Present, and Future \(2012\)](#)". The report incorporates data from recent satellite measurements and focuses on the sea-level rise risks to the infrastructure and wetlands along the coastline. Coastal sea-level rise projections for 2030, 2050, and 2011 are included noting variations due to regional geography.

The National Research Council's Committee on Mathematical Foundations of Verification, Validation, and Uncertainty Quantification has published, "[Assessing the Reliability of Complex Models: Mathematical and Statistical Foundations of Verification, Validation, and Uncertainty Quantification](#)". The report focuses on methods of improving communication between VVUQ professionals and stakeholders while addressing the increasing complexity of computational modeling.

6. New Website for International Polar Year

The National Academies has launched a new website for the International Polar Year (IPY): <http://nas-sites.org/us-ipy/> that provides resources, case studies, and information about the legacy of the International Polar Year. Documents available to download include "*Lessons and Legacies of International Polar Year*", released in April 2012, which assessed how International Polar Year contributed to polar science and identified opportunities to build on these successes.

7. Article in Nature: Current Trends in Climate Prediction in U.S. Media

Nature has published a recent article, "[Communication of climate projections in US media amid politicization of model science](#)" on the instances and biases of climate reporting in the U.S. media. The paper, in two parts, focuses on climate models and how they have been interpreted and portrayed in print media over the last twelve years.

Announcements of Opportunity

1. New Funding Opportunity from NASA ROSES for National Climate Assessment

Notices of intent due **August 3, 2012**

Official proposals due **October 5, 2012**

[Visit NASA's ROSES website](#)

On July 2nd, 2012 NASA announced a new funding opportunity in ROSES 2012 (Research Opportunities in Space and Earth Sciences) pertaining to the U.S. Global Change Research Program's (USGCRP) National Climate Assessment (NCA). This ROSES element solicits contributions to enhance the use of NASA's observation and modeling products in future NCAs by encouraging the developing and testing of potential indicators that address the needs expressed in the NCA indicators vision.

NASA supported research on potential indicators will contribute to the NCA's effort to develop a robust indicator system that informs decisions related to impacts, adaptation, vulnerability, and mitigation associated with climate and global change. NASA is requesting that Notices of Intent be submitted by August 3, 2012. Official proposals are due on October 5, 2012. For more information on this research opportunity please visit [NASA's ROSES website](#) and view appendix A.47.

Meetings and Workshops

1. 2012 U.S. AMOC Principal Investigator Meeting NCAR/UCAR Center Green Campus, Boulder, CO August 15-17, 2012

Meeting website: <http://usclivar.org/meetings/2012-amoc-annual-pi-meeting>
Registration open until venue capacity is reached, no later than August 1, 2012

The meeting will review progress on currently supported U.S. AMOC projects and, through four 'mini-workshops,' will examine near term priorities and future directions in four topical areas:

- The AMOC Observing System
- AMOC Fingerprinting from Historical and Proxy Data
- AMOC Mechanisms and Predictability
- AMOC's Impact on the Carbon Cycle

The meeting is open to all interested parties, but this year is primarily intended to be a U.S. AMOC Science Team meeting in which future directions and priorities of the program will be discussed. Researchers from outside the program are welcome to join the discussions and present the results of their research. Note that there will be limited time for oral presentations, and the majority of abstracts submitted will be accepted in poster format.

2. "Using Satellite Observations to Advance Climate Models" Summer School Caltech, Pasadena, CA August 6-10, 2012

Submit applications at: <http://climatesciences.jpl.nasa.gov/summer-school/2012-school>

The Center for Climate Sciences at NASA's Jet Propulsion Laboratory, together with NASA's Earth Science Division, will host its second week-long Summer School, on the topic of "Using Satellite Observations to Advance Climate Models", this August. The School will be held at Caltech in Pasadena, California, from August 6 to 10, 2012. There is room for about 25-30 graduate students and postdoctoral researchers to attend (including all expenses and international travel if needed). This is a great opportunity for some of the next generation of climate researchers to engage with subject experts.

3. AMS 18th Conference on Air-Sea Interaction Boston, MA August 9-12, 2012

Conference website: <http://www.ametsoc.org/meet/fainst/201218airsea.html>
Pre-registration deadline: July 13

The 18th Conference on Air-Sea Interaction is sponsored by the American Meteorological Society and organized by the AMS committee on Air-Sea Interaction. The conference will be held August 9-12, 2012 at the Westin Copley Place in Boston, MA.

4. NOAA's 37th Climate Diagnostics and Prediction Workshop

Fort Collins, Colorado

October 22-25, 2012

Workshop website: <http://www.cpc.ncep.noaa.gov/products/outreach/CDPW37.shtml>

Abstract deadline extended: August 1, 2012

NOAA's 37th Climate Diagnostics and Prediction Workshop will be held in Fort Collins, Colorado, on 22-25 October 2012. The workshop will be hosted by the Colorado State University (CSU) and the Cooperative Institute for Research in the Atmosphere (CIRA); and co-sponsored by the Climate Prediction Center (CPC) of the National Centers for Environmental Prediction and the National Climatic Data Center (NCDC). The AMS is a cooperating sponsor. The workshop will feature daytime oral presentations, invited speakers, and panel discussions with a poster session event on one evening.

The workshop will address the status and prospects for advancing climate prediction, monitoring, and diagnostics, with emphasis on five major themes:

- Improving climate prediction tools and techniques through dynamical and statistical models and methods, forecaster practices and protocols, data and model improvements, and scientific concepts;
- Prospects for improved understanding, prediction, and simulation of intraseasonal, seasonal, and inter-annual climate variability, including the extratropical annular modes, stratosphere/troposphere coupling, tropical-extratropical interactions, land-surface forcing, etc.;
- Climate variability and prediction in relation to the hydrologic cycle and in particular Western water resources;
- Prediction and attribution of recent high impact weather and climate events; and
- Improving climate services through the application of new technologies, including GIS, statistical tools, and software development practices.

5. IOOS Summit 2012

Sterling, VA

November 13-16, 2012

Summit website: <http://www.iooc.us/summit/ioos-summit/>

The [Interagency Ocean Observation Committee \(IOOC\)](#) will hold the IOOS Summit at the Hyatt Dulles November 13-16, 2012. The event seeks to reevaluate IOOC goals including seeking expert guidance on future implementation for sustained observations and re-establishing the priority observations needed to monitor the ocean.

To get involved, interested parties should fill out the [expression of interest form](#). Information provided enables an opportunity to identify your preferred method of engagement in these efforts. An organization structure comprised of ocean observing leadership is in place to review and coordinate everyone's efforts. Further details about the IOOS Summit 2012 are available on the [Interagency Ocean Observation Committee's \(IOOC\)](#) website.

6. WCRP/SPARC Workshop with Focus on Southern Hemisphere and South America
Buenos Aires, Argentina
November 26-27, 2012

Workshop agenda and logistics at: <http://www.cima.fcen.uba.ar/SPARC/>
Abstracts and applications due August 15, 2012

SPARC (Stratospheric Processes And their Role in Climate) is a core project of the World Climate Research Program (WCRP) that coordinates international efforts to bring knowledge of the stratosphere to bear on relevant issues in climate variability and prediction. A central issue within SPARC is the impact of changing atmospheric composition on circulation and weather, from increasing surface temperatures to severe weather events and rising sea-levels. Inclusion of the stratosphere in weather forecasting models is improving our accuracy of weekly forecasting and seasonal prediction, and expanding our ability to provide decadal prediction and beyond.

SPARC provides expertise in several key areas related to climate variability and climate change, such as dynamical variability, ozone, stratosphere-troposphere dynamical coupling, gravity waves, temperature trends, data assimilation, etc. In particular, Southern Hemisphere and South America are regions of the world in which the research of those key themes are relevant and need to be expanded and strengthened.

Abstracts describing research activities related to the SPARC agenda (<http://www.sparc-climate.org/>) with focus on Southern Hemisphere or South America are welcome. Limited funding is available to fully or partially support the participation of researchers or students from South America. Abstracts and applications for grants should be submitted to Andrea Carril (carril@cima.fcen.uba.ar) by August 15th.

7. CLIVAR-Related Proposed Sessions at AGU Fall Meeting
San Francisco, CA
December 3-7, 2012

Below are a selected number of proposed sessions for the upcoming AGU Fall Meeting with particular focus on climate variability and predictability. Proposed sessions may not appear in the final scientific program. The final scientific program will be published by AGU at the end of September. Each session title links to the particular session on the AGU website for more information. All abstracts for the Fall AGU meeting are due August 8, 2012.

[A030: Dynamics and Predictability of Midlatitude Storms in a Changing Climate](#)

[A034: Extratropical and High-latitude Storms, Teleconnections, and the Changing Arctic Climate](#)

[A043: Improving Climate Model Representation of Clouds and Water Vapor With the Use of Satellite and Other Observational measurements](#)

[A056: North American Climate in CMIP5 Experiments](#)

[A061: Regional Climate in the Eastern Tropical Oceans: What Processes Determine Sea Surface Temperature?](#)

CLIVAR-Related Proposed Sessions at AGU Fall Meeting continued

[C039: The Cryosphere and Seasonal to Decadal Prediction](#)

[C041: Using Satellite-Derived Cryospheric Data Records to Better Understand Climate Variability and Change](#)

[GC015: Decadal Climate Predictions for Hydroclimatic Risk Management: State of the Science and User Needs](#)

[GC032: Methodologies of Climate Model Confirmation and Interpretation](#)

[GC040: Seasonal and Decadal Predictions Towards Climate Services](#)

[GC046: The Future of Prolonged Drought in the Southwest United States](#)

[GC047: The Global Monsoons and Climate Change: Observations, Models and Projections](#)

[GC049: The North American Monsoon: Past, Present, and Future](#)

[H073: Advancing Drought Monitoring and Prediction with Applications to Decision Making](#)

[IN033: Multi-Disciplinary, Multi-Scale Model Coupling](#)

[NG008: Multiscaling in Climate and Hydrology](#)

[NG010: Nonlinear and Scaling Processes in the Atmosphere and Ocean at all Scales, From Microscales to Climate](#)

[OS015: Low-Frequency Variability of Atlantic Sea Surface Temperatures: The Roles of Atmospheric Forcing and Ocean Dynamics](#)

[OS024: Observations and Modeling of Regional and Global Freshwater and Saltwater Budgets and Transports](#)

[OS025: Ocean Circulation Variability and Air-Sea Interactions in the Tropical Western Pacific and Eastern Indian Ocean](#)

[OS040: The El Nino - Southern Oscillation Continuum](#)

[OS041: The Response of the Tropical Pacific to Natural and Anthropogenic Forcing](#)

[PP005: Climate Variability From High-Resolution Proxies](#)

8. 2nd PAGES Young Scientists Meeting 2013

Goa, India

February 11-12, 2013

Meeting website: <http://www.pages-osm.org/ysm>

Application and abstract submission deadline: July 16, 2012

The PAGES (Past Global Changes) Young Scientists Meeting (YSM), held once every four years, is the premier event for early career researchers organized by PAGES. The conference will be a stepping-stone for early-career researchers who want to develop their professional skills and expand their scientific network. The meeting will span two days. The schedule is designed to maximize opportunities for networking and for students to gain experience in oral and poster presentations. There will be scientific sessions, professional skills development discourses, breakout discussions, peer feedback and publication opportunities. Social events include an icebreaker and beach picnic. All YSM participants will also register and submit an abstract to the Open Science Meeting that follows.

9. 4th PAGES Open Science Meeting 2013

Goa, India

February 13-16, 2013

Meeting website: <http://www.pages-osm.org/>

Abstract deadline: September 8, 2012

The PAGES (Past Global Changes) Open Science Meeting (OSM), held once every four years, is the premier event in the PAGES calendar. The 4th PAGES OSM 2013 will be an international and multi-disciplinary platform for sharing latest research results and the venue for defining the role of past global change science for the next decade. The conference will be held February 13-16, 2013 in Goa, India. The title for the meeting is The Past: A Compass for Future Earth. Scientists wishing to attend the Open Science Meeting (OSM) may present their work either as a poster or a talk. You may submit several abstracts. Among the abstracts submitted for a talk, a limited number will be selected for oral presentation.

Position Announcements

1. Project Manager

Oak Ridge Climate Change Science Institute

The Oak Ridge Climate Change Science Institute (CCSI) at the Oak Ridge National Laboratory (ORNL) seeks an experienced project manager to help provide effective knowledge management of CCSI – including a basic understanding of the science conducted within the institute. The successful candidate will support CCSI leadership in communication among staff and in coordinating, communicating, and promoting our climate change science within and external to ORNL.

Specific responsibilities of the position include, but are not limited to:

- Creating financial reports for principal investigators and CCSI leadership
- Managing content of CCSI overviews, websites, brochures, and other communications

- Assisting CCSI leadership in planning and implementing an annual science retreat for the CCSI Science Advisory Board
- Coordinating preparation of the CCSI annual report
- Managing subcontractors that provide technical support
- Supporting the ORNL Climate Change DOE Relationship Manager in budgets, proposal coordination, and technical communications to DOE
- Managing selected projects so they are on time, on budget, with acceptable quality

The Project Manager interacts directly with the CCSI Director, Deputy Director, and other CCSI leaders across ORNL. An important component of these interactions will be to report on the status of climate-related projects across the diverse laboratory portfolio of activities.

Minimum Qualifications Required:

- Bachelor's degree preferably in computer science, environmental science, or a geophysical science discipline.
- Minimum of 7 years' experience in managing projects and programs.
- At least five years of experience working in a scientific/research environment.
- Demonstrated experience managing the financial aspects of a multi-faceted scientific enterprise
- Knowledge of and experience in using modern IT tools for managing and communicating information.
- Demonstrated experience in managing or coordinating the proposal preparation processes.
- Effective written and oral communication skills as evidenced by publications, websites, and presentations.

Preferred Qualifications:

- An advanced degree in a computer science, geophysical science, or environmental science discipline.
- Ten years' experience in developing and managing projects and programs in basic scientific research environments is preferred.
- Experience in proposal preparation is highly desirable.
- Professional qualification in project management

For more information or to apply for this position, please contact Julianna Presley (presleyj@ornl.gov).

**2. Postdoctoral Research Associate
Center for Climatic Research and Department of Forest and Wildlife Ecology,
University of Wisconsin-Madison**

“The Effects of Extreme Weather on Bird Populations and the Role of Habitat Refugia in Adapting to Climate Change”: This NASA-funded project is a collaboration among participants at the U.S. Fish and Wildlife Service, U.S. Geological Survey, U.S. Forest Service, University of Wisconsin-Madison, University of Nevada, Reno, and Stony Brook University. The successful candidate will perform in-depth data analysis of climate model output to assess the relationship between extreme weather events and avian demographics. S/he must have strong scientific writing and programming skills with an ability to publish in peer-reviewed journals. The successful candidate will work closely with scientists and faculty members in the Nelson Institute Center for Climatic Research and the Department of Forest and Wildlife Ecology.

A Ph.D. in climatology, atmospheric science, or a related field is preferred. Training in

quantitative or computational ecology is a secondary preference. The ideal candidate will have experience with performing quantitative analysis of large data sets using computer software packages, experience in interpreting the meteorological factors associated with extreme weather events and climate change, knowledge of climate model output formats (netCDF, GRIB, etc.), statistical analysis skills, and the ability to transform map projections of model output (GIS experience desirable). Seeking candidates who work well in a collaborative setting, have excellent verbal and written communication abilities, and possess creative problem-solving skills.

This is a three-year, full-time position. Salary is competitive and commensurate with experience. Full benefits, including health insurance, are provided. The starting date is flexible, but the project is already underway, so hiring will commence soon. To apply, please send a cover letter summarizing your research interests and background, a CV that spells out this experience, and the contact information for three references to Dr. Steve Vavrus (svavrus@wisc.edu) at the University of Wisconsin-Madison.

3. Postdoctoral Position(s) in Tropical Meteorology, Climate Dynamics and Modeling Joint Institute for Regional Earth System Science and Engineering, UCLA

Applications are invited for one or two postdoctoral position(s) in tropical meteorology, climate dynamics and modeling at the Joint Institute for Regional Earth System Science and Engineering at the University of California, Los Angeles (JIFRESSE/UCLA). The successful candidate will join a team from JIFRESSE/UCLA, Jet Propulsion Laboratory (JPL), and California Institute of Technology to investigate key processes, predictability, and modeling of tropical atmospheric variability with emphases on multi-scale interactions and the intraseasonal time scale, e.g., the Madden-Julian Oscillation.

Applicants should have a recent Ph.D. in atmospheric or ocean sciences, or a closely related field. They should have a strong background in tropical meteorology, climate dynamics, and extensive experience in processing large datasets. Experience with climate modeling and with the application of reanalysis and satellite datasets to model evaluation is desirable. The appointments are contingent upon completion of the Ph.D., and are awarded initially for a one-year period with possible renewal in one-year increments for a maximum of two additional years.

Interested applicants should send a statement of interest, curriculum vitae, and the names and contact information of three references to Dr. Duane Waliser (duane.waliser@jpl.nasa.gov) and Dr. Xianan Jiang (xianan@jifresse.ucla.edu).

4. Postdoctoral Research Associate Department of Atmospheric and Oceanic Sciences, University of Colorado

A research associate is needed at the Department of Atmospheric and Oceanic Sciences, University of Colorado to conduct innovative research in the area of Indian-Pacific Ocean circulation and ocean-atmosphere interaction, including the role of the Indian Ocean in the MJO initiation. The successful applicant will work with the Principal Investigator in collaboration with scientists at other institutions and research labs.

At the time of appointment, the successful candidate should have a Ph.D. degree in ocean,

atmospheric, climate sciences, or a related field. Statistical data analysis skills are required and modeling experience is preferred. Initial appointment is for one year and renewable for another year, contingent upon performance and availability of funds. Inquiries may be directed to Weiqing Han (whan@colorado.edu).

Applications should include Curriculum Vitae with a publications list, 3 names of references, and a cover letter that describes previous and current research activities and the postdoc research work that you wish to pursue at the University of Colorado. Applications will continue to be accepted until the position is filled. The position may start in the fall of 2012 or mutually agreeable date. Applications for this position must be submitted through www.jobsatcu.com #818055.