

# August 2013 U.S. CLIVAR Newsgram



Please forward to interested colleagues. To include an announcement in our next issue, contact [Jennifer Mays](#).

## Calendar of Upcoming Events

### Announcements

1. White House Releases Obama's Climate Action Plan
2. Final Version of High Resolution Dynamic Limb Sounder Data Now Available
3. MEaSURES SeaWiFS Deep Blue Version 4 Aerosols Release
4. Book Release: Climate Science for Serving Society
5. WMO Releases Report "The Global Climate 2001-2010, A Decade of Climate Extremes"

### Announcement of Opportunities

1. NOAA Climate Program Office FY 2014 Federal Funding Opportunity
2. Call for Proposals - Fisheries and the Environment Program (FATE) NOAA Fisheries Service

### Meetings and Workshops

1. Short Course on Statistical Analysis of Weather and Climate Extremes at AMS 94th Annual Meeting
2. 2014 Ocean Sciences Meeting
3. IGS International Symposium on Sea Ice in a Changing Climate
4. CIIFEN III International Conference on ENSO "Bridging the gaps between Global ENSO Science and regional processes, extremes and impacts"

### Position Announcements

1. Tenure-Track Position in Low-Temperature Geochemistry, Iowa State University
2. Tenure-Track Position in Climate Modeling, University of Colorado, Boulder
3. Tenure-Track Position in Ocean Carbon Cycle Modeling, UC, Santa Barbara
4. NSF Section Head, Atmosphere Section, Arlington, VA
5. Research Associate Position, Dalhousie University
6. Postdoctoral Position in Climate Change, Clouds, and the Hydrologic Cycle, UCLA
7. Postdoctoral Research Associate in Climate & Ecosystems Management, University of Colorado, CIRES
8. Post Doctoral Associate in Physical Oceanography, University of Miami, CIMAS/RSMAS

## Calendar of Upcoming Events

also see [our online calendar](#)

### **11th International Conference on Paleooceanography (ICP 11)**

September 1-6, 2013  
Barcelona, Spain

### **WCRP VAMOS/CORDEX Workshop on Latin-America and Caribbean CORDEX LAC: Phase I-South America**

September 11-13, 2013  
Lima, Peru

### **2013 EUMETSAT Meteorological Satellite Conference & 19th AMS Satellite Meteorology, Oceanography, and Climatology Conference**

September 16-20, 2013  
Vienna, Austria

### **U.S. Ocean Acidification PI Meeting**

September 18-20, 2013  
Washington, DC

### **OCEANS '13 MTS/IEEE San Diego**

September 23-26, 2013  
San Diego, CA

### **Banff International Research Station Workshop "The role of oceans in climate uncertainty"**

October 6-11, 2013  
Banff, Alberta, Canada

### **DISCCRS VIII Interdisciplinary Climate Change Research Symposium**

October 12-19, 2013  
La Foret Conference and Retreat Center, CO

### **WCRP-ACPC Africa Climate Conference 2013**

**October 15-18, 2013**  
**Arusha, Tanzania**

### **NOAA's 38th Climate Diagnostics and Prediction Workshop**

October 21-25, 2013  
College Park, MD

### **GODAE OceanView Symposium 2013**

**"International Operational Oceanography: 5 years on from GODAE - where are we now?"**

November 4-6, 2013  
NOAA/NCWCP, Washington, DC

## Announcements

### **1. White House Releases Obama's Climate Action Plan**

In June, the White House released a statement on President Obama's Plan to Cut Carbon Pollution: Taking Action for Our Kids. The Plan's three main sections cover cutting carbon pollution in America, preparing the U.S. for the impacts of climate change, and call for the U.S. to lead international efforts to address global climate change. A Fact Sheet summarizing the comprehensive plan [can be found here](#).

### **2. Final Version of High Resolution Dynamic Limb Sounder Data Now Available**

The High Resolution Dynamic Limb Sounder (HIRDLS) team is pleased to announce the release of its Version 007 atmospheric data products. It is expected that this will be the final version of HIRDLS data.

These data are now publicly available from the NASA GSFC Earth Sciences Data and Information Services Center (GES DISC). The HIRDLS latest improved algorithms (V7.00.00 and V7.05.00) include newly added measurements of H<sub>2</sub>O, N<sub>2</sub>O, NO<sub>2</sub>, and ClONO<sub>2</sub>. Previously released temperature, geopotential height, and species O<sub>3</sub>, HNO<sub>3</sub>, CFC-11, CFC-12, NO<sub>2</sub>, N<sub>2</sub>O<sub>5</sub>, plus clouds, aerosol extinction, and ice water content (joint with the Microwave Limb Sounder, MLS) are of better quality than previous versions. All HIRDLS

products have a vertical resolution of 1 km, and are spaced approximately 100 km apart along the orbit track. HIRDLS data are available from January 29, 2005 through March 17, 2008. Additional information is available at: [http://disc.sci.gsfc.nasa.gov/datareleases/hirdls\\_v007\\_data\\_release](http://disc.sci.gsfc.nasa.gov/datareleases/hirdls_v007_data_release).

### 3. MEaSUREs SeaWiFS Deep Blue Version 4 Aerosols Release

The Goddard Earth Sciences Data and Information Services Center (GES DISC), in collaboration with Principal Investigator Dr. Christina Hsu, is pleased to announce the release of an updated version (Version 4) of the data products from the “Consistent Long-Term Aerosol Data Records over Land and Ocean from SeaWiFS” project. This project is part of the NASA Making Earth Science Data Records for Use in Research Environments (MEaSUREs) Program. These products cover the period from 4 September 1997 to 11 December 2010.

Version 4 data represent significant improvements over the previous version and it is recommended that all users upgrade as soon as possible. The improved over-land algorithm is documented in Hsu et al., (2013); the ocean algorithm is based on Sayer et al., (2012).

Improvements from Version 3 to Version 4 include:

- Improved turbid water filter;
- Improved aerosol models over regions with highly absorbing aerosols;
- Updates to QA-filtering during L3 aggregation;
- Fixed minor coding error in ocean Look-Up Table (LUT) search;
- Fixed error where very high Aerosol Optical Thickness (AOT) values greater than 3.5 were incorrectly reported as 0.02.

Additional information on and access to these data are available at:

[http://disc.sci.gsfc.nasa.gov/data\\_releases/measures-seawifs-deep-blue-aerosols-version-4-release](http://disc.sci.gsfc.nasa.gov/data_releases/measures-seawifs-deep-blue-aerosols-version-4-release).

### 4. Book Release: Climate Science for Serving Society

This volume, edited by Ghassem Asrar and James Hurrell, offers a comprehensive survey and a close analysis of efforts to develop actionable climate information in support of vital decisions for climate adaptation, risk management and policy. Arising from submissions and discussion at the 2011 Open Science Conference (OSC) of the World Climate Research Program (WCRP), the book addresses research and intellectual challenges which span the full range of Program activities. For more information, [visit the publisher’s website here](#).

Some 1900 participants in the Conference, including 541 graduate students and early career scientists from 86 nations and more than 300 scientists from developing nations, were invited to provide comments on the papers, both before the conference and in themed daily plenary sessions. The resulting book incorporates the contributions of distinguished climate scientists as well as experts who use science-based climate information to formulate policy and initiate responsive action.

Climate Science for Serving Society: Research, Modeling and Prediction Priorities fosters a more effective dialogue between the climate information and knowledge developers – the research community – and decision makers who must respond to difficult adaptation, mitigation and risk management issues.

## 5. WMO Releases Report “The Global Climate 2001-2010, A Decade of Climate Extremes”

The new report released by the World Meteorological Organization (WMO), *The Global Climate 2001-2010, A Decade of Climate Extremes*, analyzed global and regional temperatures and precipitation, as well as extreme events such as the heat waves in Europe and Russia, Hurricane Katrina in the United States of America, Tropical Cyclone Nargis in Myanmar, droughts in the Amazon Basin, Australia and East Africa and floods in Pakistan.

The decade was the warmest for both hemispheres and for both land and ocean surface temperatures. The record warmth was accompanied by a rapid decline in Arctic sea ice, and accelerating loss of net mass from the Greenland and Antarctic ice sheets and from the world’s glaciers. As a result of this widespread melting and the thermal expansion of sea water, global mean sea levels rose about 3 millimeters (mm) per year, about double the observed 20th century trend of 1.6 mm per year. Global sea level averaged over the decade was about 20 cm higher than that of 1880, according to the report.

Read the WMO press release and download a copy of the report [online here](#).

### **Announcement of Opportunities**

#### **1. NOAA Climate Program Office FY 2014 Federal Funding Opportunity**

Along with its partners, NOAA CPO supports competitive research through four major programs — Climate Observations and Monitoring (COM); Earth System Science (ESS); Modeling, Analysis, Predictions, and Projections (MAPP); and Climate and Societal Interactions (CSI). All together, these programs are holding nine individual competitions for research funding in FY 2014.

The COM program is conducting two competitions: one for the development of data sets for weather/ climate extremes and ocean climate indicators; the other for reconstructions and analyses of paleoclimate proxy/multi-proxy datasets.

The ESS program is conducting two competitions: the first is soliciting proposals for focused data analysis and/or multi-model experimentation that seek to better understand tropical Pacific processes, biases, and climatology. The second competition is soliciting proposals that aim to place observational constraints on sources and sinks of aerosols and greenhouse gases via measurements, analysis, and modeling.

MAPP is also conducting two competitions: one for research to advance understanding, monitoring, and prediction of drought, the other to improve NOAA’s operational systems for climate prediction.

CSI is hosting the final three competitions for FY 2014. The first, a part of the Sectoral Applications Research Program (SARP), focuses on climate extreme event preparedness, planning, and adaptation. The aim is to develop strategies for building sector-based community resilience to the impacts of extreme events on water resources and water-resource dependent activities.

The second competition, also for SARP, focuses on initiatives for coping with drought in support of the National Integrated Drought Information System (NIDIS). The final competition, part of the Coastal and Ocean Climate Application (COCA) program, focuses on the development and application of methodologies for integrating ecosystem services for resilient coasts.

For more details on the competitions and how to apply, visit the [CPO Funding Opportunities page](#). To learn more about CPO's competitive research programs, visit the [Climate Programs page](#).

Letters of intent are due by 5 p.m. Eastern Time, **September 10, 2013**, and the deadline for final applications is 5:00 p.m. Eastern Time, **November 14, 2013**.

## **2. Call for Proposals - Fisheries and the Environment Program (FATE) NOAA Fisheries Service**

Proposals are due on **September 30, 2013**.

FATE is a fisheries oceanography research program within the National Marine Fisheries Service (NMFS) that promotes increased understanding, tracking and responses to the impacts of environmental variability and change on living marine resources.

FATE is seeking proposals that analyze the response of living marine resources to environmental variability and change. FATE projects advance ecosystem-based approaches to fisheries management and typically lead to or include development of oceanographic and ecological information useful to ecosystem assessments, ecosystem status reports, or fishery stock assessments. At least one of the investigators must be a NMFS employee. For additional information please contact: FATE Program Manager, Michael Ford ([michael.ford@noaa.gov](mailto:michael.ford@noaa.gov); 301.427.8010); FATE website <http://www.st.nmfs.noaa.gov/fate/>.

## **Meetings and Workshops**

### **1. Short Course on Statistical Analysis of Weather and Climate Extremes at AMS 94th Annual Meeting Atlanta, GA February 2, 2014**

Extreme events are of primary concern when studying climate variability and change because of their societal impacts. Well-established statistical methods are available for analyzing univariate data, yet these methods are seldom taught in university classes. Moreover, new developments in analyzing persistent extreme phenomena, such as heat waves and droughts, and spatial patterns in extremes have been proposed, but have not fully made their way into atmospheric studies. This course will aid the participants in shortening the learning curve toward the proper analysis of extremes in both univariate and more complex settings, and bring them up to speed on current research.

The AMS short course will provide an introduction to statistical methods for analyzing extreme events with applications to weather and climate studies. The course will include instruction in using the R programming language for implementing extreme value analyses. The course is aimed at students and researchers in atmospheric and climate sciences, among other fields, and at stakeholders such as water managers. A minimal prerequisite for participants is completion of an introductory statistics course, but no training in extreme value analysis per se is required.

The format of the course will consist of a background lecture on atmospheric science challenges concerning extreme events to be addressed, an introductory lecture on extreme value analysis, and several hands-on exercise sessions using weather and climate data. Experience using R is desirable, but not required for this course.

Computers, laptops or internet access will not necessarily be available. It is required that participants bring their own laptop computer with the R programming language and the extRemes package already installed. Installation of R, and the required package, is straightforward (see instructions at the R-project web site, <http://www.r-project.org>, at <http://cran.r-project.org/doc/manuals/r-release/R-admin.html>).

Instructors for the course include: Barbara Casati, Ouranos, Montreal Canada, Eric Gilleland and Rick Katz both from NCAR, Boulder, Colorado, U.S.A. For more information, please contact Barbara Casati ([Casati.Barbara@ouranos.ca](mailto:Casati.Barbara@ouranos.ca)) or Eric Gilleland (<http://www.ral.ucar.edu/staff/ericg>).

## **2. 2014 Ocean Sciences Meeting**

### **Hawaii Convention Center, Honolulu, HI**

### **February 23-28, 2014**

The 17th biennial Ocean Sciences Meeting, co-sponsored by the Association for the Sciences of Limnology and Oceanography (ASLO), The Oceanography Society (TOS), and the American Geophysical Union (AGU), will be held at the Hawaii Convention Center in Honolulu from February 23-28, 2014. The Ocean Sciences Meeting (OSM) is an important venue for scientific exchange across broad marine science disciplines. Sessions will include all aspects of oceanography, especially multidisciplinary topics, as well as presentations that reflect new and emerging research on the global ocean and society, including science education, outreach and public policy.

The abstract submission and registration sites are now open. Paid registration is required for all abstract submittals. Abstract submission deadline: **October 4, 2013**.

## **3. IGS International Symposium on Sea Ice in a Changing Climate**

### **Grand Chancellor Hotel, Hobart, Australia**

### **March 10-14, 2014**

Sea ice plays a crucially important and dynamic role in global climate and high- latitude ecosystems. It forms a highly sensitive indicator and modulator of climate change and variability. Sea ice is currently one of the fastest responders to changing climate conditions across the globe – with both hemispheres responding differently overall but with regional similarities. This symposium presents a timely opportunity to showcase recent advances in our knowledge and technological capabilities, and to encourage holistic discussion of the most recent changes, long-term trends and variability in the sea-ice environment. Therefore, the symposium specifically includes topics pertinent to advancing our knowledge of sea ice from recent observations, advances in instrumentation and data processing, and progress in sea-ice and coupled modelling. To improve our understanding of the processes contributing to sea-ice change, including interactions with and response to other climatic components, and to fathom how sea-ice change may impact on ecosystem dynamics, biogeochemical systems, and polar operations, the symposium aims to provide a general discussion of changes in these components of the global cryosphere by providing a sounding board on the topics of cross-disciplinary data acquisition and exchange, technical improvements of observational and analytical tools, and integrated project planning.

Online abstract submission is open now to **August 30, 2013** at the IGS portal. For further information see the **Second Circular**. Notification of accepted abstracts will be issued on October 8, 2013.

#### **4. CIIFEN III International Conference on ENSO, “Bridging the gaps between Global ENSO Science and regional processes, extremes and impacts”**

**Guayaquil, Ecuador**

**November 12-14, 2014**

The III International Conference on ENSO in November 2014 will aim to synthesize progress on ENSO research, with a detailed view of the climate-society relationship, and to share experiences in vulnerability assessment methodologies used by the climate impact studies community. This conference will bring together scientists and experts involved in research, observations and operational climate services to build on new knowledge for improving the prediction of ENSO and its regional impacts, and to discuss decision support approaches in preparation of and response to ENSO climate anomalies. Our intent is to provide a forum for efficiently linking science with societal needs, one of the envisaged World Climate Research Program (WCRP) “Grand Challenges.”

The main goal of the conference is to review progress on the science of ENSO and related regional processes in order to improve the prediction of regional impacts; and to contribute to development of decision support frameworks that allow timely and appropriate planning and response at national and local levels.

The conference objectives are to synthesize the progress in ENSO research: physical processes and feedbacks, theoretical approaches, improved representation of ENSO in complex climate models, decadal to centennial variations in the ENSO cycle, the role of the extratropics in ENSO development, ENSO interaction with regional processes, and related topics.

The III International Conference on ENSO will be organized in 6 plenary sessions, related poster sessions and an International Exhibition. The specialized session will emphasize the following topics:

- ENSO dynamics
- ENSO and other modes of climate variability (intraseasonal, decadal, centennial)
- ENSO modeling and prediction
- ENSO and Regional processes
- ENSO impacts
- ENSO global, regional and national information services

### **Position Announcements**

#### **1. Tenure-Track Faculty Position in Low-Temperature Geochemistry**

**Department of Geological and Atmospheric Sciences, Iowa State University**

Job Announcement Number: OCE-2013-0010. The Department of Geological and Atmospheric Sciences at Iowa State University invites applications for a tenure-track faculty position at the assistant professor level to begin in August of 2014. The position will be in low-temperature geochemistry, with emphasis on research relevant to environmental geochemistry or contaminant hydrogeology. The selected candidate is expected to establish a successful, externally funded research program. This program would complement some existing strengths in the department, which include groundwater and surface-water hydrology, paleoclimatology, isotope geochemistry, sedimentary geology, economic geology, weather and climate modeling, glacial and Quaternary geology, geophysics, tectonics, and geoscience education. We also encourage interactions with researchers and faculty in other units on campus, such as Agricultural and Biosystems Engineering; Agronomy; Bioeconomy Institute; Chemistry; Civil, Construction and

Environmental Engineering; Ecology and Evolutionary Biology; Natural Resource Ecology and Management; the Iowa Water Center; the Leopold Center for Sustainable Agriculture; and the National Laboratory for Agriculture and the Environment. In addition, this faculty member will teach at the undergraduate and graduate levels. Information about the Department appears at: <http://www.ge-at.iastate.edu/>.

Candidates must hold a Ph.D. by the time of appointment. All applications must be submitted electronically at [www.iastatejobs.com](http://www.iastatejobs.com) (search vacancy ID#: 130853). Please be prepared to attach a letter of application, including concise teaching and research statements, curriculum vitae, and the names, addresses, e-mail addresses, and phone and fax numbers of at least three references. The positions will remain open until filled. Full consideration will be given to applications received by **November 8, 2013**. We encourage applications from minorities, women, veterans, and persons with disabilities. Iowa State University is an equal opportunity/affirmative action employer.

## **2. Tenure-Track Position in Climate Modeling University of Colorado, Boulder**

The Institute of Arctic and Alpine Research (INSTAAR) and the Department of Atmosphere and Oceanic Sciences (ATOC) at the University of Colorado Boulder invite applications for a tenure-track faculty position in climate modeling. INSTAAR and ATOC are recognized international leaders in multiple areas of Earth and Environmental Science, and faculty within these units routinely work with others across and beyond campus, including the multiple federal labs located in the Boulder region. Candidates who specialize in regional climate modeling are of particular interest, but we seek applicants from any relevant area of focus who complement existing Department and Institute strengths in climate modeling as well as in geophysics, hydrology, biogeochemistry, paleoclimatology, atmospheric chemistry and oceanography. The successful candidate will demonstrate the ability to develop an innovative and robust research program, as well as the vision and potential for excellence in both classroom teaching and student mentoring.

This position will be filled at the Assistant Professor level. A Ph.D. in Earth Sciences or a related field is required at the time of appointment, and post-doctoral experience is preferred. This is a 9-month tenure-track position, rostered jointly in INSTAAR and ATOC. For more information about the position, visit this link: <<https://www.jobsatcu.com/postings/69928>>

## **3. Tenure-Track Position in Ocean Carbon Cycle Modeling University of California, Santa Barbara**

The **Interdepartmental Graduate Program in Marine Science** (IGPMS) at the University of California, Santa Barbara, invites applications for a tenure-track faculty position in Ocean Carbon Cycle Modeling at the rank of Assistant Professor. We seek a highly creative and interactive scholar whose research and teaching interests focus on the interaction among biogeochemical, ocean circulation, and ecological processes in the sea with broad linkages to climate and climate change. In particular, we are interested in candidates who focus on numerical modeling of biogeochemical cycles of carbon and associated materials in the ocean on regional to global scales in the modern and/or paleo-oceans. Individuals who combine modeling with empirical studies are also encouraged to apply. The successful candidate will hold a faculty appointment in an academic department that participates in the IGPMS program, and is expected to develop an internationally recognized and extramurally-funded research program, mentor graduate and undergraduate students in the candidate's area of expertise, and teach both graduate and undergraduate courses.

Applicants should submit: 1) an application letter, 2) a curriculum vitae, 3) a statement of research accomplishments and future plans, 4) a statement of teaching experience and interests, 5) up to three selected publications, and 6) names and contact information of three persons willing to provide letters of reference (the committee will solicit letters for a short list of candidates).

Submit applications electronically at <https://recruit.ap.ucsb.edu/apply/JPF00216>, and address questions to: [OceanCarbonSearch@geog.ucsb.edu](mailto:OceanCarbonSearch@geog.ucsb.edu). Review of applicants will begin **November 30, 2013** and will continue until the position has been filled. The effective start date of the position is July 1, 2014.

#### **4. NSF Section Head, Atmosphere Section Arlington, VA**

Serves as a member of the Division leadership team and as the Directorate's principal spokesperson in the area of lower atmosphere research. Responsible to the Director, Division of Atmospheric and Geospace Sciences, for the overall planning, management and commitment of budgeted funds for the Section, which includes programs in Atmospheric Chemistry, Climate and Large-scale Dynamics, Physical and Dynamic Meteorology, and Paleoclimate. The incumbent also serves as the Division's primary source of guidance concerning research priorities and program development.

Essential requirements:

- Ph.D. or equivalent professional experience, or a combination of education and equivalent experience in atmospheric sciences.
- Substantial research contributions and strong evidence of scholarship and leadership in the atmospheric sciences, as evidenced in publications and other professional contributions.
- Demonstrated broad knowledge of diverse fields of atmospheric sciences.
- Knowledge of grant and contract administration, fiscal management, and budget preparation with experience in scientific research support.

You must submit all required information by **October 15, 2013**. If materials are not received, your application will be evaluated solely on the information available and you may not receive full consideration or may not be considered eligible. To apply, see more details here: <https://www.usajobs.gov/GetJob/ViewDetails/349768600>.

#### **5. Research Associate Position Dalhousie University**

Canada requires rapidly deployable environmental prediction systems to help guide its response to marine emergencies along its coastline and offshore areas. To help meet this need, a Network of Centres of Excellence called Marine Environmental Observation Prediction and Response (**MEOPAR**) has recently been established. One of MEOPAR's initial projects will develop a forecast system that can be set up rapidly after a marine emergency in order to provide short-term forecasts (hours to days) of the physical properties of the ocean. The forecast system will be developed in close collaboration with researchers from Environment Canada and Fisheries and Oceans Canada.

MEOPAR funding is available for a research associate to develop the data assimilation capabilities of the relocatable model. Particular attention will be paid to assimilation of point observations from the continental shelf and slope, and the simultaneous downscaling of information from coarser resolution, larger

scale operational models. The successful applicant will work primarily with Professor Keith R. Thompson at Dalhousie University.

The successful applicant will have a Ph.D. in Physical Oceanography, Atmospheric Science or related discipline, and a strong publication record. Experience in running state-of-the-art, data assimilative models of the ocean or atmosphere is required. The appointment will begin as soon as possible and will initially be for one year. Extensions may be granted for two more years subject to performance. The annual salary will be commensurate with qualifications and experience.

Applicants should send a statement of interest, curriculum vitae (including a list of publications), and the names and addresses of three references to:

Jackie Hurst  
Department of Oceanography  
Dalhousie University  
1355 Oxford Street  
PO BOX 15000  
Halifax, Nova Scotia  
Canada, B3H 4R2

Email: [Jackie.Hurst@dal.ca](mailto:Jackie.Hurst@dal.ca) (Submission by e-mail is encouraged.) Fax: (902) 494-3877.

Review of applications will start immediately and continue until suitable candidates are found.

## **6. Postdoctoral Position in Climate Change, Clouds, and the Hydrologic Cycle Dept. of Atmospheric and Oceanic Sciences, UCLA**

UCLA Dept. of Atmospheric and Oceanic Sciences seeks a postdoctoral scholar to study the response of the hydrologic cycle to climate change. Supervised by Prof. Alex Hall, the position will focus on quantifying various processes that regulate hydrologic cycle changes in climate simulations, including cloud, and constraining these processes with observations.

The position—available immediately—is initially for one year and renewable for up to three years, subject to satisfactory annual progress. Applicants should have a Ph.D. in Atmospheric and Oceanic Sciences or a related field, effective oral and written communication skills, and strong programming and analytical skills. Experience working with the Coupled Model Intercomparison Project climate model ensemble is preferred.

Applicants should submit a brief statement of research interests and goals and a complete CV, including contact information for three references, to Katharine Reich at [kreich@atmos.ucla.edu](mailto:kreich@atmos.ucla.edu). UCLA is an Equal Opportunity/Affirmative Action employer. All qualified applicants, including women and minorities, are encouraged to apply. For more about Prof. Hall's research activities, visit [www.atmos.ucla.edu/csrl](http://www.atmos.ucla.edu/csrl).

## **7. Postdoctoral Research Associate in Climate & Ecosystems Management University of Colorado, CIRES**

The University of Colorado Cooperative Institute for Research in Environmental Sciences (CIRES) seeks a two-year Postdoctoral Research Associate for an interdisciplinary team investigating climate processes that shape ecoregions in Western North America, the predictability of those processes on decadal and longer time scales, and the interaction of climate with land, ecosystem and water management.

The Postdoctoral Associate will work highly applied context both to understand user needs and to feedback those needs into the climate science aspects of the project. The position requires knowledge of context-sensitive social science methods for analyzing policy and management processes. Stakeholder-focused applications studies will include analysis of policy and management decisions to identify management needs and assessment of relevance of long term changes in climate features to management, and translating climate science and uncertainties into applications.

The position is located at NOAA/ESRL in Boulder, Colorado. Review of applications will begin **August 26**. The University of Colorado is an equal opportunity employer and complies with applicable EEO and affirmative action regulations. On line applications only: see <https://www.jobsatcu.com/postings/67484> for complete information, including minimum qualifications, responsibilities, benefits, and applications instructions.

## **8. Post Doctoral Associate in Physical Oceanography University of Miami, CIMAS/RSMAS**

The Cooperative Institute for Marine and Atmospheric Studies (CIMAS) of the University of Miami (UM), Rosenstiel School of Marine and Atmospheric Science (RSMAS) invites applications for a Postdoctoral Associate to participate in one or more of the following: analysis of hydrographic; satellite or other in situ data; study of ocean dynamics and its relationship to weather and climate; and evaluation of the ocean observing system using numerical modeling and statistical methods. The work will be done in close collaboration with scientists in the Physical Oceanography Division at the National Oceanic and Atmospheric Administration's (NOAA) Atmospheric Oceanographic and Meteorological Laboratory (AOML). The work will involve using and interpreting large data sets and numerical model output.

Applicants must have a Ph.D. in Physical Oceanography or in a related field. The successful candidate should have experience with one or more of the following: observational data analysis; numerical modeling, and descriptive oceanography. Strong communication and computer skills are required. Familiarity with the areas of research commensurate with the general activities at NOAA's Physical Oceanography Division at AOML would be particularly valuable. Applicants are encouraged to contact research faculty at AOML to discuss possible research topics. Further information about NOAA/AOML research activities can be found at <http://www.aoml.noaa.gov/phod>. Apply online at [www.miami.edu/careers](http://www.miami.edu/careers). A current resume, a statement of interests, and the names of 3 people who can provide letters of recommendation are required. The University of Miami offers competitive salaries and a comprehensive benefits package including medical and dental benefits, tuition remission, vacation, paid holidays and much more.