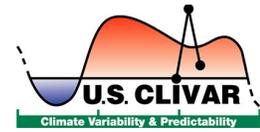


May 2012 U.S. CLIVAR Newsgram



Please forward to interested colleagues. If you have announcements to include in our next issue or would like to be removed from the newsgram e-list, email Jennifer Mays: [jmays\[at\]usclivar.org](mailto:jmays[at]usclivar.org).

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1. **Director of the International CLIVAR Project Office**
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Calendar of Upcoming Events

2012 NCAR ASP Summer Colloquium - The Weather-Climate Connection: Advances & Challenges	June 4-12, 2012	Boulder, CO
CLIVAR VAMOS Workshop on Modeling and Predicting Climate in the Americas	June 4-6, 2012	Petropolis, Brazil
VAMOS Panel Meeting (dates updated)	June 6-7, 2012	Petropolis, Brazil
19th CLIVAR SSG Meeting	June 11-14, 2012	La Paz, Mexico
Lower Atmospheric Observing Facilities Workshop: Meeting the Challenges of Climate System Science	June 18-19, 2012	Boulder, CO
4th AMMA International Conference	July 2-6, 2012	Toulouse, France
2012 U.S. CLIVAR Summit	July 17-20, 2012	Newport Beach, CA
Dynamics and Predictability of High-Impact Weather and Climate Events Workshop	Aug. 6-9, 2012	Kunming, China
2012 U.S. AMOC Principal Investigators Meeting (poster abstract deadline extended: June 15)	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
International Science Conference on Climate Change: Multidecadal and Beyond (abstract deadline extended: June 30)	Sept. 17-21, 2012	Taipei, Taiwan
20 Years of Progress in Radar Altimetry Symposium	Sept. 24-26, 2012	Venice, Italy
International Conference on North Atlantic Climate Variability (abstract deadline extended: May 31)	Sept. 24-26, 2012	Hamburg, Germany

Announcements

1. U.S. CLIVAR Working Group on Greenland Ice Sheet-Ocean Interactions Releases White Paper

Download White Paper here: <http://griso-wg.org/documents/>

The U.S. CLIVAR Working Group on Greenland Ice Sheet-Ocean Interactions, established in 2011, has completed and issued a White Paper entitled "Understanding the Dynamic Response of Greenland's Marine Terminating Glaciers to Oceanic and Atmospheric Forcing." The paper is intended to:

- provide a cross-disciplinary synthesis of the current state of knowledge on Greenland Ice Sheet mass loss and the relevant mechanisms and forcings affecting glacial retreat;
- identify key gaps in understanding of mechanisms linking climate forcings, perturbations at the marine glacier margins, and their dynamic response; and
- recommend approaches to address the knowledge gaps, combining long-term monitoring of key systems, process studies targeting specific dynamic regimes, and inclusion of the dynamics in Earth System Models.

New methodological, technological, human and organizational systems are envisioned to accelerate progress in reducing uncertainties in Greenland's projected mass change, its contribution to sea level rise, and its impact on the climate system.

The paper will serve as the basis for a peer-review journal article, perhaps in BAMS, to be submitted in the coming months. It will also provide fodder for the planning of a cross-disciplinary, community-wide workshop later in 2012, or early 2013, to advance cross-disciplinary research.

2. Status of NCAR CMIP5 Dataset Availability via Earth System Grid

NCAR has experienced significant delays in serving its CMIP5 datasets via the Earth System Grid due to the sheer volume of data and the need to post-process many fields into CMIP5-compliant format. To date, a small fraction (~14%) of the expected data is being served. A table summarizing the number of NCAR CMIP5 datasets that are currently downloadable via the Earth System Grid and as a percentage of those expected to be available is provided at http://www.cgd.ucar.edu/ccr/CMIP5_Status/.

Currently the following data are available:

- Nearly all of the CESM1-Fast Chemistry data
- CCSM4 output for some atmosphere, ocean, land and sea ice fields for the Preindustrial control, historical (20th Century) runs, and Representative Concentration Pathways (RCP) simulations
- Some atmospheric output also for the paleoclimate runs (Mid-Holocene, Last Glacial Maximum, Last Millennium) and 1%/year CO₂ increase simulations

By the end of May, NCAR is working to deliver primarily the decadal prediction Amon and Omon data, paleo data, and the CESM1-CAM5 Amon, Omon, sea ice, land and land ice data. By the end of June, they hope to have virtually all data downloadable.

3. Obama Administration Releases 10-Year Strategic Plan for the U.S. Global Change Research Program

View the USGCRP Press Release here: <http://globalchange.gov/what-we-do/strategic-planning/2012-2021-strategic-plan-related-materials/press-release>

Released in April, the Strategic Plan describes four key goals for the U.S. Global Change Research Program (USGCRP) during 2012-2021:

- **Advance Science:** Advance scientific knowledge of the integrated natural and human components of the Earth system, drawing upon physical, chemical, biological, ecological, and behavioral sciences.
- **Inform Decisions:** Provide the scientific basis to inform and enable timely decisions on adaptation to and mitigation of global change.
- **Conduct Sustained Assessments:** Build a sustained assessment capacity that improves the Nation's ability to understand, anticipate, and respond to global change impacts and vulnerabilities.
- **Communicate and Educate:** Broaden public understanding of global change and support the development of a scientific workforce skilled in Earth-system sciences.

The Plan was developed over the past two years by more than 100 Federal agency managers working under the auspices of the U.S. Subcommittee on Global Change Research, which for more than 20 years has coordinated Federal research on global change among 13 departments and agencies. It reflects extensive inputs from stakeholders and the general public, as well as a detailed review by the National Research Council.

According to the USGCRP National Coordination Office Press Release, "Federal research under the USGCRP has for two decades focused largely on detailed documentation of specific environmental changes by satellite and other Earth-observing technologies and the development of sophisticated computer models of the Earth's climate system to predict how such changes will manifest in the near-term. In the ten years going forward that emphasis will expand to incorporate the complex dynamics of ecosystems and human social-economic activities and how those factors influence global change. By including these added dimensions, USGCRP-sponsored research will generate information of unprecedented practical use to decision-makers in a wide range of sectors including agriculture, municipal planning, and public works."

Announcements of Opportunity

1. NSF Arctic Science, Engineering and Education for Sustainability (ArcSEES)

Program Solicitation: <http://www.nsf.gov/pubs/2012/nsf12553/nsf12553.htm>

SEES website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504707

Proposal Deadline: September 14, 2012

On April 17, NSF released a solicitation for a new program within the cross-foundation Science, Engineering and Education for Sustainability (SEES) initiative. Arctic SEES (ArcSEES) will fund fundamental pilot research projects as well as larger projects that will yield "community-relevant sustainability pathways and engineering solutions." It is a multi-year, interdisciplinary program that seeks both fundamental research to improve our ability to evaluate the sustainability of the Arctic human-environmental system as well as integrated efforts that will provide community-relevant sustainability pathways and engineering solutions. For this competition, interdisciplinary research will be focused

in four thematic areas: the natural and living environment, the built environment, natural resource development, and governance.

SEES is a cross-NSF initiative involving the agency's 11 directorates and offices to address interdisciplinary research and education needs as they relate to understanding the interactions between human and environmental systems. The initiative was launched in FY 2010 and has funded projects relating to: water sustainability and climate, ocean acidification, biodiversity, climate change education, Earth system modeling, sustainable energy pathways, and sustainability fellowships for early career scientists, among other activities. SEES is envisioned as a 10-year activity, and has seen increasing interest from and engagement by other federal agencies, especially in the last year.

NSF estimates making between 5 and 15 awards in FY 2013, contingent on appropriations and the size of projects submitted (i.e. pilot vs. community-relevant projects). Projects of interest to a single partner agency may be funded solely out of that agency's funding contributions; that decision will be made by the participating agencies, not the principal investigator.

Eligible organizations include institutions of higher education, other non-profit/non-academic organizations, for-profit organizations, foreign organizations, and NSF-sponsored and other agency-sponsored Federally Funded Research and Development Centers (FFRDCs).

2. Belmont Forum and G8 Research Councils Initiative on Multilateral Research Funding International Opportunities Fund

Fund website: <http://igfagcr.org/index.php/iof-home-page>

Pre-proposal deadline: July 20, 2012

Notification inviting full proposals issued by September 20, 2012

Full proposal submission deadline: December 20, 2012

The International Opportunities Fund is a joint funding call between the Belmont Forum and G8 Heads of Research Councils (G8HORCs) for approximately 20M Euros. The countries involved in this initiative, currently, are Australia, Brazil, Canada, France, Germany, India, Japan, Russia, South Africa, the United Kingdom, and the United States of America. Possibilities for collaboration for non-participatory countries and developing countries exist as well.

The current International Opportunities Fund is aimed at supporting research in the areas of Coastal Vulnerability and Freshwater Security. This International Opportunities Fund is aimed at supporting excellent research on topics of global relevance best tackled through a multinational approach, recognizing that global challenges need global solutions. Funding should support researchers to cooperate in consortia consisting of partners from at least three of the participating countries and must bring together natural scientists, social scientists and research users. Where appropriate, some Partner Organizations could also support capacity building in some developing countries. Proposals may address only one of the scientific Themes and can address either one or both of the work packages within that Theme. Proposals of 2-3 years duration are invited in the region of 1M to 2M Euro.

Meetings and Workshops

1. Lower Atmospheric Observing Facilities (LAOF) Workshop: Meeting the Challenges of Climate System Science Boulder, Colorado June 18-19, 2012

Workshop website: http://www.joss.ucar.edu/events/2012/lower_atmos_observing/index.html

Registration deadline: May 31, 2012

Sponsored by NSF, the purpose of this workshop is to:

- examine the LAOF assets in light of emerging trends in interdisciplinary climate and earth system science, and
- identify weaknesses in the capabilities of existing and emerging tools, and in the modes of deployment supported by these systems.

Such observations facilitate the understanding of fundamental processes, which in turn provide an improved basis for parameterized representation in ESMs. To the extent that gaps need to be filled, the findings and recommendations of this workshop can be carefully evaluated by the broader climate system research community, the NSF/AGS, and institutions involved in support of the LAOF.

There is no fee to attend this workshop but space is limited so potential participants are encouraged to register online. A limited amount of travel support will be available to student and early career registrants.

2. 2012 U.S. AMOC Principal Investigator Meeting NCAR/UCAR Center Green Campus, Boulder, CO August 15-17, 2012

Meeting website: <http://www.joss.ucar.edu/events/2012/amoc/index.html>

Poster abstract deadline: June 15, 2012

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 intended to be primarily 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 have to be accepted in poster format.

3. CLIVAR/WCRP Workshop on Decadal and Multi-decadal Variability in Pacific and Indian Ocean
Qingdao, China
September 4-7, 2012

Workshop website: <http://daa.fio.org.cn:8000/conference/mdv1/index.html>

This workshop aims to pool knowledge on the decadal and multi-decadal variability of global ocean and climate, with the focus on that of Pacific and Indian Ocean, by investigating its governing dynamics and mechanisms, and assessing its impacts on the climate change on the other time scales. The main objects of the workshop are to estimate and identify the main issues to improve the predictability of decadal and multi-decadal variability with current observation and simulation systems, and potentially provide information in the decision-making process.

Topics will include:

- Current understanding of decadal and multi-decadal variability of Pacific and Indian Ocean
- Role of Pacific and Indian Ocean in modulating the decadal and multi-decadal climate variability
- Key challenge for better understanding of decadal and multi-decadal variability
- Necessary means to improve the decadal and multi-decadal predictability

4. Five Controversies in Climate Science: A Symposium Celebrating the Contributions of S. George Philander
Princeton University, Princeton, NJ
September 6-7, 2012

Symposium website: <http://aos.princeton.edu/philander/>

Attendance is free of charge, but registration required by August 3.

This two day Symposium will discuss the role of the ocean in linking climate across time - from the seasonal cycle, to interannual variability, to climate change - and in linking climate across space - from the tropics to the poles and back again. Invited talks will provide background and perspective for panel discussions that take on five controversial climate science questions:

- What is the relative importance of the thermohaline and wind-driven components of the oceanic circulation to the Earth's climate?
- Do conditions in polar regions determine conditions in the tropics, or vice versa?
- Is a permanent El Nino that changes the planetary albedo possible?
- What tests can records of recurrent Ice Ages provide for climate models?
- Why is global warming so polarizing?

5. CLIVAR/WCRP International Workshop on Interdecadal Variability of the Global Monsoons
Nanjing, China
September 10-12, 2012

Workshop website: <http://www.clivar.org/organization/aamp/activities/international-workshop-interdecadal-variability-global-monsoons>

The workshop will provide an overview of the state of knowledge and emerging issues in monsoon interdecadal variability and promote coordinated experimental designs to test possible causes and explore predictability. The workshop will be of potential interest to climate scientists of the tropical monsoon regions, as well as those with expertise in ENSO and multi-decadal ocean variability, the seasonal forecasting, climate impacts and PAGES communities. The organizers hope to promote current/paleo-climate collaborations.

Major objectives:

- review evidence of monsoon interdecadal variability collectively and regionally;
- discuss how these variations are linked to each other and other major modes of interdecadal variability in the global oceans such as the PDO, IPO, or AMO, and to climate change; and
- examine possible mechanisms underlying these interdecadal variations, including in simulations and numerical experiments that address driving physical processes with the goal of assessing the predictability of monsoon interdecadal variations.

For further information, to be added to the list of interested participants or send an abstract please contact Dr. Andy Turner: [a.g.turne\[at\]reading.ac.uk](mailto:a.g.turne[at]reading.ac.uk), and cc Prof Bin Wang: [wangbin\[at\]hawaii.edu](mailto:wangbin[at]hawaii.edu).

6. CLIVAR/WCRP Tropical Atlantic Variability Meeting/PIRATA-17 Meeting
Kiel, Germany
September 10-14, 2012

Meeting website: http://tace.geomar.de/tav/index_tav.html

Abstract deadline: June 24, 2012

Online registration opens: July 2, 2012

The 2012 Tropical Atlantic Variability Meeting, held Monday-Thursday in Kiel, Germany, will focus on the advances in observing, simulating, understanding and predicting Tropical Atlantic Variability. It will be organized around five themes:

- Climate Variability and Change in the Tropical Atlantic
- Tropical Atlantic Teleconnections
- Predictability, Coupled and Uncoupled Model Biases
- Oceanic and Atmospheric Processes Affecting Climate Variability
- Physical-Biogeochemical Interaction

The PIRATA-17 meeting on Friday will close the workshop week. This meeting will be composed of two parts:

- Presentations by the coordinators of the three collaborating countries (United States, Brazil, France) and associated partners with a focus on activities in 2011-2012 aimed at maintaining the PIRATA network, ship campaigns, and scientific highlights. This part is open to the general scientific community.
- Executive session for PIRATA members and guests only, which includes meetings of the PIRATA Scientific Steering Group and the PIRATA Resources Board and a joint summary meeting.

**7. International Science Conference on Climate Change: Multidecadal and Beyond
National Taiwan University, Taipei, Taiwan
September 17-21, 2012**

Conference website: <http://www.tims.ntu.edu.tw/workshop/Default/index.php?WID=137>

Short abstract deadline (extended): June 30, 2012

Extended abstract deadline: August 15, 2012

The conference, sponsored by the Taida Institute for Mathematical Sciences (TIMS) of National Taiwan University (NTU) in coordination with the NTU Department of Atmospheric Sciences (AS), will feature invited lectures to review the current knowledge on multidecadal to longer-scale climate variations. The main theme of the conference is focused on the observation and understanding of climate change, and the scope of the reviews will include theoretical studies, observational studies, and model simulations that address fundamental issues. The conference welcomes contributions in the form of oral or poster papers that are related to the main theme and the scope of the reviews. The Proceedings, consisting of invited lectures and referee-reviewed contributed papers, will be published by a scientific publisher. Interested scientists wishing to receive future communications or submit abstracts should email: [tassist3\[at\]math.ntu.edu.tw](mailto:tassist3[at]math.ntu.edu.tw). For all other inquiries, email: [cpchang\[at\]nps.edu](mailto:cpchang[at]nps.edu).

**8. Chapman Conference on The Agulhas System and its Role in Changing Ocean Circulation, Climate, and Marine Ecosystems
Stellenbosch, Western Cape, South Africa
October 8-12, 2012**

Conference website: <http://www.agu.org/meetings/chapman/2012/ecall/index.php>

Abstract deadline: June 1, 2012

The purpose of this Chapman conference is to identify the most pressing questions and to design modeling experiments in combination with paleoceanographic and (sustained) modern observations to establish the role of the Agulhas system from regional to global scales.

Fields of interest represented:

Oceanography, climate science, paleoceanography, paleo-climatology, ocean and climate modeling, marine ecology (including fisheries, bio-physical interactions), satellite remote sensing, non-linear dynamics.

Organized by SCOR/IAPSO/WCRP Working Group 136 On the Climatic Importance of the Greater Agulhas System, with the support of AGU. Conference conveners: Will de Ruijter, Rainer Zahn, Arne Biastoch, and Lisa Beal.

**9. Open Science Symposium on Western Pacific Ocean Circulation and Climate
Qingdao, China
October 15-17, 2012**

Symposium website: <http://oss2012.csp.escience.cn/dct/page/1>

Abstract deadline: July 15, 2012 <http://oss2012.csp.escience.cn/dct/page/65558>

Early Career Scientist travel grants application deadline: July 30, 2012

Co-sponsored by CLIVAR/WCRP, the OSS will bring together nearly three hundred eminent scientists from the field of oceanology at home and abroad, for the purpose of promoting communication of research achievements on the aspects of western Pacific circulation as well as its influence on the climate conditions such as the warm pool maintenance and its role in low-frequency variability, modulation of the ENSO cycle, the EAM variability, and the NWP tropical cyclones.

Selected topics covered:

- Western Boundary Currents (WBCs) dynamics and variability;
- Interaction of WBCs with ambient circulation system (e.g., the South China Sea, ITF, Indian Ocean, extra-tropical ocean);
- Roles of WPO circulation variability in warm pool and ENSO variability;
- Influences of WPO on regional (e.g., monsoon, typhoon, extreme climatic events) and global climate systems and their predictability; and
- WPO's role in and impacts on carbon cycle, biogeochemical process, acidification, ecosystem, paleo-oceanography.

**10. 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: July 13, 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 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 intra-seasonal, 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.

The workshop will feature daytime oral presentations, invited speakers, and panel discussions with a poster session event on one evening.

11. GODAE OceanView & WGNE Joint Workshop on Short- to Medium-range Coupled Prediction for the Atmosphere-Wave-Sea-Ice-Ocean: Status, Needs and Challenges

NOAA-NCEP, Washington DC

March 19-22, 2013

Workshop website: <https://www.godae-oceanview.org/outreach/meetings-workshops/coupled-prediction-workshop-gov-wgne-2013/>

Abstract submission opens: July 2012

This workshop, endorsed by the GODAE OceanView Science Team (GOVST) and the Working Group for Numerical Experimentation (WGNE), invites members of the atmospheric, ocean, wave and sea-ice community with an interest in developing coupled forecasting systems targeting short- to medium-range prediction for each of the component phenomenon and their related applications.

Objectives will focus on coupling of the atmosphere-wave-sea-ice-ocean. The forum will review the status, gaps and scientific challenges for the following topics as they relate to coupled prediction: observations, physical parameterizations, dynamical modeling and data assimilation. The leadership group will prepare a draft community whitepaper against each topic leading up to the meeting with invited contributions and community review.

Participation targets senior researchers and experts in their field. In addition, high priority is given to the participation of early career scientists with direct or closely related research interests. The number of attendees is expected to be ~50 (Senior researchers and early career scientists).

12. JSC/CAS Working Group on Numerical Experimentation Workshop on Systematic Errors in Weather and Climate Models

Exeter, UK

April 15-19, 2013

Workshop website: <http://www.metoffice.gov.uk/conference/wgne2013>

The principal goal of the workshop will be to increase understanding of the nature and cause of errors in models used for weather and climate prediction (including intra-seasonal to inter-annual). It is anticipated that, the focus will be on General Circulation Models (GCMs) such as those used in [CMIP5](#), [TIGGE](#), etc., including atmosphere-only, coupled atmosphere-ocean and earth system models. Biases in the atmosphere, land surface, ocean and cryosphere are all of interest. A wide variety of diagnostic techniques will be discussed, including traditional analysis methods applied to global models, process studies, the use of diagnostic and process models (e.g., single-column, cloud-resolving), and simplified experiments (e.g., aqua-planet). Of special interest will be studies that consider errors found in multiple models and errors which are present across timescales. Diagnostics and metrics that utilize novel or multi-variate observational resources and constraints to identify and characterize systematic errors are welcomed, together with studies which infer the amount of systematic error in predicted extremes from systematic errors in non-extreme situations. Stay tuned for a call for abstracts within the next few months.

Position Announcements

1. Director of the International CLIVAR Project Office (ICPO)

National Oceanography Centre, Southampton, UK

Start date: August 1, 2012 (negotiable)

Application deadline: June 14, 2012

An exciting opportunity has arisen for a secondment with the World Climate Research Programme (WCRP) and the UK's National Oceanography Centre (NOC) for the position of Director of the International CLIVAR Project Office (ICPO), located at NOC's Southampton headquarters. The secondment period will be until March 31, 2014.

The Climate Variability and Predictability (CLIVAR) project is one of four core projects of the WCRP. CLIVAR coordinates and facilitates national and international activities that contribute to our understanding and prediction of climate variability and change on seasonal, decadal and centennial timescales.

You will take a leading role in the implementation and coordination of CLIVAR activities under the general guidance of the CLIVAR Scientific Steering Group. Having lead responsibility for CLIVAR, you will direct the implementation of the plans and activities of each of the project elements of CLIVAR in support of the overall mission and strategy of WCRP.

You will maintain active links between CLIVAR and the wider science community that requires inspiring and organizing scientific meetings, workshops and conferences to ensure the timely flow of information on CLIVAR. You will have direct management of the Project Office staff, budgets, and operations. You will also undertake work in maintaining and developing its funding base. The role would be an excellent opportunity for those

wanting to increase their knowledge of the working in climate-science and develop a career in senior management.

You will have a PhD or equivalent experience in a relevant field. A proven ability in science management including obtaining external funding is essential. You should have demonstrated the ability to organize, manage and coordinate interdisciplinary and international science activities and initiate and sustain international cooperation.

This post will be funded by the Natural Environment Research Council and graded to a NERC Band 3 with a salary range of £47,630 to £60,420 per annum. An agreement would be entered with the successful applicant's current employer concerning specific terms for the secondment.

Alternative locations may be considered for the Director but there would need to be frequent travel to Southampton to be part of the team. The role will include periods of travel both within the UK and internationally. Further details concerning the role can be found in the attached further particulars, for an informal discussion, please contact Sarah Buckley on 00 44 (0) 2380 59 6134.

You can apply by sending a CV and a cover letter (including salary information and indication of your availability) by email to: [askhr\[at\]noc.ac.uk](mailto:askhr[at]noc.ac.uk) or alternatively by post to: HR Department, National Oceanography Centre Waterfront Campus, European Way, Southampton, Hampshire, SO14 3ZH.

2. Postdoc Position, UCLA Department of Atmospheric and Oceanic Sciences Los Angeles, CA

Start date: August 1, 2012

Applications are invited for a postdoctoral position at the UCLA Department of Atmospheric and Oceanic Sciences. The successful candidate will work in a NSF funded project aimed to reconcile different ideas on the generation and maintenance of the southern Atlantic and Pacific highs, gain a better understanding of these important climate features and their variability, and contribute to improve their simulation by general circulation models of the coupled atmosphere-ocean system through identification of reasons for systematic model errors in the tropics.

Applicants with a strong background in atmospheric dynamics and in the numerical modeling of the global atmosphere are particularly encouraged to apply. The successful applicant must hold a Ph.D. degree at the time of appointment. The initial appointment is for one-year, with possibilities for renewal. Salary will be commensurate with education and experience, starting at the \$48,000 per annum level.

Further particulars may be obtained from Professor Carlos R. Mechoso, Department of Atmospheric and Oceanic Sciences UCLA, 405 Hilgard Ave., Los Angeles, CA 90045; [mechoso\[at\]atmos.ucla.edu](mailto:mechoso[at]atmos.ucla.edu). Applicants should send a complete CV and ensure that at least two referees send evaluation letters at the earliest possible time.

3. Postdoc Research Staff Member, Lawrence Livermore National Laboratory Livermore, CA

Application website: <https://careers.llnl.gov/> (job ID#: 10704)

The Climate/Carbon Science Group within the Atmospheric, Earth and Energy Division (AEED) in the Physical and Life Sciences Directorate has an opening for a postdoctoral researcher to work on a project to improve the coupling between atmospheric physics parameterizations in the Community Atmosphere Model (CAM) global climate model. The project is part of LLNL's world-recognized climate research program that includes the Program for Climate Model Diagnosis and Intercomparison (PCMDI), the Cloud-Associated Parameterization Test-bed (CAPT), and the Earth System Grid Federation (ESGF). Because it lies at the intersection between cloud physics, climate model evaluation, numerical analysis, and computer science, process coupling is an underexplored (and thus exciting) aspect of climate modeling.

The individual will work closely with climate scientists, computer scientists, and mathematicians at LLNL and other DOE National Laboratories as part of a multi-institutional collaboration supported by DOE's climate research and Scientific Discovery through Advanced Computing (SciDAC) offices. The selected candidate will report to the Climate/Carbon Science Group Leader.

This is a two-year Postdoctoral appointment with the possibility of extension to a maximum of three years. Eligible candidates are recent PhDs within five years of the month of the degree award at time of employment offer.

4. Postdoc Position, CICESE Waves Group Ensenada, Mexico

The Waves Group of CICESE, as part of the Physical Oceanography Department is seeking candidates for a three-year postdoc position. As part of a recent CONACYT-funded project, the postdoc will work with the Principal Investigator (F. J. Ocampo-Torres) and colleagues in the Waves Group at CICESE (P. Osuna and others), along with several outside collaborators (from UABC in Ensenada, U.Marseilles in France, and Met Institutt in Norway).

Some of the effects of the sea surface in the marine-boundary layer has already been documented. Moreover, detailed aspects related to the presence of swell in opposing direction to the wind generated waves is still a subject of further research. Understanding the process by which the marine-boundary layer is influenced by combined swell and wind-sea is necessary to constrain the description of its future behavior in coupled models. Within this broad context, the specific purpose of the project is to acquire detailed observations in the Gulf of Tehuantepec, hindcast the wave spectrum in the interest region, study air-sea interaction under accelerating- decelerating winds in the laboratory, and determine ocean-atmosphere fluxes of CO₂, heat and moisture under the presence of mixed seas.

The Waves Group seeks a recent PhD graduate interested in approaching these challenging problems. Essential qualifications include: PhD in Oceanography, Applied Math, Physics or related field, a strong math and physics background, and the ability to gain insight from observational data. Knowledge of Fortran and model development experience is desirable. She/He is also expected to actively collaborate in writing and submitting scientific manuscripts and proposals for funding, as well as to collaborate in other research activities within the Waves Group in CICESE.

Please send a CV along with the names and contact information of three references to [E. J. Ocampo-Torres](#) and [Pedro Osuna](#), preferable by May 18, 2012. **Applications will be accepted until the position is filled.** Inquiries regarding further details about the position are welcome. The grant amount is at Associate Research Scientist Level and it is considered as a scholarship, therefore it is exempt from income tax. The successful candidate will begin as soon as possible.