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March 2010 U.S. CLIVAR News-gram

Table of Contents

i – Calendar of Upcoming Events

Research Opportunities

1. Call for papers: Ocean Modelling

Position Announcements

2. Associate Professors at University of Arizona
3. SOLAS Project Officer position

Meetings and Workshops

4. Third South Atlantic Meridional Overturning Circulation (SAMOC) workshop
5. Earth System Science 2010: Climate, Global Change and People
6. WCRP-UNESCO (GEWEX/CLIVAR/IHP) Workshop on metrics and methodologies of estimation of extreme climate and weather events
7. AGU Meeting of the Americas

ANNOUNCEMENTS

- **Special issue of Climatic Change on CLARIS**

CALENDAR of UPCOMING EVENTS

(for more information-www.usclivar.org/calendar.html)

April 2010

19- 23: The CLIVAR International Climate of the Twentieth Century Project (C20C) 5th Workshop (Beijing, China)

May 2010

10-13: AIMES Open Science Conference: Earth System Science 2010: Global Change, Climate and People (Edinburgh, Scotland)

11-14: SAMOC 3 Meeting (Rio, Brazil)

June 2010

7-9: US AMOC Meeting (Miami, FL)

Research Opportunities

1. Call for papers: Ocean Modelling

Ocean Modelling is pleased to announce a special issue that focuses on the ocean mesoscale and submesoscale. Manuscripts are invited including pedagogical reviews, that address issues related to the representation and parameterization of the ocean mesoscale and submesoscale in numerical simulations, as well as theoretical and observational studies that support the evaluation

of simulation integrity. While these topics can span a broad spectrum, particular interest is for those manuscripts that address the following topics:

- * Mechanistic evaluations and analyses of fine resolution simulations, both idealized and realistic, that explicitly represent the mesoscale and/or submesoscale;
- * Formulation and testing of parameterizations, including interactions with boundary layers;
- * Impact of the mesoscale and/or submesoscale on climate scale phenomena, such as the ocean mean state, variability, and stability, including physics and biogeochemistry;
- * Observational metrics that provide information towards the representation and parameterization of the mesoscale and/or submesoscale.

Normal review and editorial processes apply. Manuscript submissions must be fully accepted for publication no later than **01Dec2010 for inclusion in the special issue. Publication date: early 2011.**

Position Announcements

2. Associate Professors at University of Arizona

The University of Arizona (UA) seeks to hire two faculty members in *data assimilation and climate dynamics* at assistant or associate professor level. This is part of an Environmental Initiative that will bring more than 15 new hires to the UA in two years. See details at: <http://www.atmo.arizona.edu>. Positions will remain open until filled, but review of applications (and requests for letters of reference) **will begin March 10, 2010**, and candidates will be interviewed by May 2010.

The University of Arizona also seeks an assistant or Associate Professor in the area of *Climate Dynamics and Change*. We are looking for someone with broad interests in climate change and a particular focus on the processes and mechanisms underlying interannual to multidecadal climate variability. The University of Arizona has a strong program in interdisciplinary studies of global change and climate variability, both in basic science and in applications/impacts. A colleague is sought whose research complements and expands strengths across campus, which include top-ranked programs in hydrology, paleoclimatology, arid lands studies, ecosystems, geosciences, and climate applications and impacts. This position originates through the Institute of the Environment and will likely be housed in the department of geosciences and/or atmospheric sciences.

3. SOLAS Project Officer

The post of Project Officer offers an opportunity to work within the International Project Office of the <http://www.solas-int.org> Surface Ocean- Lower Atmosphere Study (SOLAS). The post is located at the School of Environmental Sciences, University of East Anglia in Norwich, UK. The office, which is led by an Executive Officer, works with the Scientific Steering Committee (SSC) of SOLAS in implementing the project and manages an associated COST Action.

The Project Officer will assist with SOLAS event organisation, production of communication materials and website management, and will manage the COST Action 735. The Project Officer will also be involved in assisting the SSC, liaising with the project's sponsors and other relevant organisations and setting up and servicing working groups and task teams. The postholder will represent the project at international meetings and interact with SOLAS national committees and groups.

The postholder should have at minimum a B.Sc. (or equivalent) in environmental sciences or allied subjects, appropriate experience, excellent communication, interpersonal and presentation

skills and be willing to undertake some international travel. **The position is available from 1st April 2010 to 31st March 2012.**

To read more about the position and to download the application pack, go to <http://www.uea.ac.uk/hr/jobs/ra/ra641.htm>.

Deadline for applications is 12 noon on 26 March 2010.

Meetings and Workshops

4. Third South Atlantic Meridional Overturning Circulation (SAMOC) workshop Niteroi/Rio, Brazil, May 11-13, 2010

SAMOC 3 plans to get together international experts to design and plan the South Atlantic and inter-ocean exchanges element of an MOC observing system that would help address questions and challenges outlined in the documents and recommendations provided by OceanObs'09. It is expected that the workshop will foster international collaborations and will provide concrete basis for the implementation of the program. The Agenda will include:

1. Presentations from modelers, theoretician and those that did model products analysis leading towards recommendations on what needs to be observed, where and why.
2. Presentations from those that conducted observational studies in the regions of interest (the South Atlantic and inter ocean exchanges) with focus on what was learned from the observations and what is missing.
3. Based on results from 1 and 2, it is expected to develop recommendations for a plan to observe those parameters needed to measure and understand MOC variability in the South Atlantic and adjacent Southern Ocean sector.

The Workshop is supported by the Brazilian Diretoria de Hidrografia e Navegação (DHN), the NOAA Climate Office Program, and the US CLIVAR Office. For more information or if you wish to participate, visit the SAMOC website

<http://www.aoml.noaa.gov/phod/SAMOC/>

5. Earth System Science 2010: Climate, Global Change and People 10-13 May 2010, Edinburgh International Conference Centre, Edinburgh, UK

This event is the First Open Science Conference of the International Geosphere-Biosphere Programme's project 'Analysis, Integration and Modelling of the Earth System' (AIMES), run in cooperation with QUEST, the UK Natural Environment Research Council's directed programme for Earth system science.

This 3-day event will showcase recent advances in the understanding of Earth system dynamics and highlight new directions for the analysis of the interactions between humans and our environment.

The programme includes talks, posters, workshops and training sessions that will address three themes: 1. Earth System Modelling - from observations and process understanding to prediction and risk assessment; 2. Dynamics of Biogeochemical Cycles and Climate - transitions, instabilities and feedbacks; and 3. People and Resources - perspectives on the relationships among environment, ecosystems and human needs.

The deadline for submission of abstracts for presentations and posters is **19th March 2010**. For more information about the programme, registration, and abstract submission visit:

<http://earthsystemscience2010.org>

6. WCRP-UNESCO (GEWEX/CLIVAR/IHP) Workshop on metrics and methodologies of estimation of extreme climate and weather events

27-29 September 2010, UNESCO headquarters, Paris, France

The Workshop focus is on phenomenology and methodological aspects of the quantitative estimation of different weather and climate extremes under observed and future climate conditions using observational and model data. The Workshop aim is to facilitate an open dialogue of climatologists from different areas (meteorology, hydrology, oceanography), data producers (in-situ, satellites, NWP, climate model community), and statisticians on the future strategy for the development of robust and reliable characteristics of extremes and optimal methodologies for their estimation.

Workshop will consist of 5 topical sessions with keynote and poster presentations: • Hydrological extremes (precipitation, flooding and river discharge), including compound hydroclimate extremes • Extremes in temperature conditions (heat waves, dry spells) • Extreme tropical and extratropical cyclones and associated wind waves and storm surges • Methodologies for estimation of extremes • Risk assessment and three breakout groups:

- Data requirements and availability, including data policy
- Representation of extreme events in climate and operational models, including consideration of scaling and spatial scales of extremes
- Methodologies for estimation of extremes across areas and disciplines

Workshop will consist of keynote talks, given by leading experts in different aspects of estimation of climate extremes in WCRP and IHP projects, oral and poster presentations. We invite to participate in the Workshop scientists from climate, meteorological, oceanographic, hydrological and statistician communities. Contributions from the experts dealing with data analysis, modeling, development of statistical methodologies and risk assessment are equally welcome.

Workshop details, registration and abstract submission are available at the Workshop web site:

www.extremeworkshop.org

Deadline for abstract submission is April 30, 2010.

7. AGU Meeting of the Americas

Fox do Iguazu, Brazil, August 8-13, 2010

Abstract submission is now open <http://www.agu.org/meetings/ja10/index.php>

ABSTRACT DEADLINE IS MARCH 31, 2010

A08: Extreme weather events in the Americas: observations, forecasts and projections Sponsor: Atmospheric Sciences

Extreme weather events have substantial social and economic impacts. This session will focus on observational and modeling studies of extreme weather events in the Americas. Papers addressing any of the following major topics are especially encouraged: 1) observational and modeling studies of extremes including impacts of climate variations (MJO, ENSO, PDO etc); 2) forecasts and predictability of extremes including statistical and ensemble techniques; 3) projections of future climate scenarios and changes in the frequency of extreme events.

Session A18: Ocean-Land-Atmosphere Interactions in the subtropical Southeast Pacific.

This session solicits contributions that describe original research results on dynamical, physical and chemical interactions between the ocean, atmosphere, and land surface off the west coast of

South America. A better understanding of these complex couplings in cold ocean tropical and subtropical regions is crucial to improving predictions of climate and long-range atmospheric and ocean chemical transport.

In view of major on-going research efforts, including the VAMOS Ocean-Cloud-Atmosphere-Land Study (VOCALS) program and the availability of new datasets gathered by the VOCALS Regional Experiment (REx) in the Southeast Pacific, this session invites abstracts on: clouds, aerosols, marine boundary layer processes, upper ocean dynamics and thermodynamics, coastal currents and upwelling, large-scale subsidence, and regional diurnal circulations. Special emphasis will be given to interaction between continental, monsoonal precipitation and the vast stratocumulus deck blanketing the adjacent subtropical Southeast Pacific. This session solicits contributions that describe original research results on dynamical, physical and chemical interactions between the ocean, atmosphere, and land surface off the west coast of South America. A better understanding of these complex couplings in cold ocean tropical and subtropical regions is crucial to improving predictions of climate and long-range atmospheric and ocean chemical transport.

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A22: South America Monsoon System: Past, Present and Future

The South American Monsoon System (SAMS) plays a fundamental role in driving the atmospheric circulations and water and energy balances in the tropics and subtropics. Water and agricultural resources for millions of people in South America depend on the intensity, timing and duration of SAMS. This session will accept presentations related to observational and modeling studies of SAMS in three major themes: 1) past variability of SAMS through paleoclimate records and modeling, 2) SAMS in the present climate and 3) projections of future changes in SAMS

OS24: Variability of the South Atlantic Ocean Circulation Conveners: Edmo Campos, Mauricio Mata, Gustavo Goni, Francisco Beron-Vera

The implementation of the ocean observing system in the South Atlantic together with satellite oceanography allows to study the ocean variability in the South Atlantic. We invite contributions on the analysis of hydrographic and satellite observations, comparison analyses with model results, to enhance the capability to better understand the role of the ocean in weather and climate. Of particular interest are studies and methodologies to investigate the spatial and time variability of currents, frontal regions, ring shedding in the South Atlantic Ocean, and on the interconnectivity of the South Atlantic with other basins.

ANNOUNCEMENTS:

- **Special issue of Climatic Change on CLARIS**

A special issue of Climatic Change on CLARIS, the program preceding CLARIS-LPB, is now available at

<http://www.springerlink.com/content/r4666126336g/?p=d5628ab294234429a2040c8c7b430665&pi=0>