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March 2011 U.S. CLIVAR News-gram

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CALENDAR of UPCOMING EVENTS

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

March

2-4: Drought Predictability and Prediction in a Changing Climate (Barcelona, Spain)

21-23: VOCALS Workshop (Miami, FL)

23-25: Workshop on Coupled Ocean-Atmosphere-Land Processes in the Tropical Atlantic (Miami, FL) Register now:

http://www.clivar.org/organization/atlantic/meetings/tropical_bias/miami.php

25-26: CLIVAR Atlantic Implementation Panel and VAMOS Panel Meetings (Miami, FL)

April

5-7: NASA Evapotranspiration Workshop (Silver Spring, MD)

11-12: NASA Drought Monitoring Workshop (Silver Spring, MD)

13-14: 2011 Drought Monitor Forum (Fairfax, VA)

18-21: TRACE Community Discussion Workshop (Silver Spring, MD)

May

2-5: CLIVAR SSG-18 (Paris, France)

2-6: Workshop on Advances in the Use of Historical Marine Climate Data (Frascati, Italy)

9-11: Global Synthesis and Observations Panel Data Meeting (Grenoble, France)

Position Announcements

1. MPOWIR (Mentoring Physical Oceanography Women to Increase Retention) internship opportunities

NOAA in partnership with MPOWIR (Mentoring Physical Oceanography Women to Increase Retention) is pleased to announce several internship opportunities. Two junior scientists will be

chosen for internships at AOML, GFDL or PMEL. Applicants choose from eight opportunities to work on a project of mutual interest. Interns will be integrated into an ongoing research program for a period of 8 to 10 weeks, during which they will be supervised and mentored by a designated NOAA senior scientist. Interns will also collaborate with the researcher to work toward the goal of a coauthored publication.

To be considered for this opportunity, applicants must be female scientists currently enrolled in a graduate program at a U.S. institution and self-identify as a physical oceanographer. Funding for lodging, travel, meals and incidentals is included in the internship. For more information visit <http://mpowir.org/get-involved/noaa-internship/>

The deadline for applications is March 15, 2011.

2. GEO Secretariat Director for 2012-2014

In accordance with the GEO Rules of Procedure, GEO is inviting applications for the position of Secretariat Director for the period 2012-2014.

Details can be found on the GEO Secretariat web site:

http://www.earthobservations.org/ag_geosec_eo.shtml

Meetings and Workshops

3. Past Present and Future Change in the Atlantic Meridional Overturning Circulation

12-15 July 2011

Bristol, UK

<http://www.noc.soton.ac.uk/rapid/ic2011/>

Call for Abstracts – deadline is 21 March 2011

SCIENCE THEMES

- What do we know about present and past changes in the AMOC on seasonal to millennial time scales?
- How does the AMOC influence ocean, atmosphere and terrestrial climate and ecosystems?
- How will the AMOC change over the next few decades and over the 21st century?
- Outlook and Challenges

4. 2011 Gordon Research Conference and Seminar, Radiation and Climate

Applications are now being accepted for the 2011 *Gordon Research Conference* (GRC) on Radiation and Climate, to be held **July 10-14 2011** at Colby College, Maine. The conference focus for 2011 is *Clouds, Aerosols, Precipitation and their Role in Climate and Climate Change*. Speakers will present cutting-edge research on outstanding issues in climate change, particularly those in which the interactions between clouds, aerosols, and precipitation play a major role. The Conference will feature a broad range of topics, including grand challenges in atmospheric radiation and climate, cloud and hydrological cycle feedbacks, aerosol-cloud-precipitation-climate interactions across scales, new approaches for remote sensing and in-situ observations of clouds, aerosols and precipitation, and multi-scale modeling challenges.

The GRC will bring together a collection of leading investigators who are at the forefront of their field, and will provide opportunities for scientists, especially junior scientists and graduate students, to present their work in poster format and exchange ideas with leaders in the field. The collegial atmosphere of this Conference, with programmed discussion sessions as well as

opportunities for informal gatherings in the afternoons and evenings, provides an avenue for scientists from different disciplines to brainstorm and promotes cross-disciplinary collaborations in the various research areas represented.

For a list of session topics, speakers and discussion leaders, and to register for the GRC, please visit the website: <http://www.grc.org/programs.aspx?year=2011&program=radclimate>

Applications for the GRC must be submitted by **June 12, 2011**. Please apply early, as some meetings become oversubscribed before this deadline.

Graduate students and early-career scientists will also have the opportunity to present their work at the first ever *Gordon Research Seminar (GRS)* held immediately before the GRC (**July 9-10, 2011**). The GRS will provide a unique forum for graduate students, post-docs, and early career scientists to present their work and exchange cutting edge ideas with other scientists with comparable levels of experience and education. Most of the attendees of the GRS are expected to attend the Gordon Research Conference that immediately follows it (July 10-15, 2011).

For more information and to submit an application, please visit the Gordon Research Seminar website: http://www.grc.org/programs.aspx?year=2011&program=grs_radc

5. AOGS 8th Annual Meeting

Taipei, Taiwan, August 8-12, 2011

Abstract submission deadline: March 15 2011

<http://www.asiaoceania.org/aogs2011/public.asp?page=home.htm>

AS10: Application of Cloud-Resolving Model Simulations for studying Cloud-Related Processes in Climate Simulation

Cloud-system-related problems are at the heart of global and regional climate simulations and the understanding of climate change. Convective clouds not only release latent heat from condensation and vertically redistribute heat and moisture, but also play important role in the global and regional hydrological cycle through the precipitation and the modification of shortwave and longwave radiative fluxes at the ocean and land surface. However, the representation of cloud systems in general circulation models (GCMs) and regional climate models (RCMs) remains one of major challenges for the climate simulations. The improvement to the existing convection and cloud parameterization schemes in GCMs has been slow. The development of cloud-resolving models (CRMs) provides a unique opportunity to evaluate and improve the existing convection, cloud and radiation schemes. While GCMs require convection and cloud parameterizations, CRMs explicitly resolve convection and mesoscale organization, where cloud microphysical processes and cloud-radiation interactions directly respond to the cloud-scale dynamics. Increasing studies have been focused on the application of CRM simulations to improve parameterizations of subgrid-scale physical processes in GCMs; to understand the interaction of cloud systems with large-scale circulations; and to replace the cloud-related parameterizations in GCMs. The goal of this session is to showcase the current efforts on this challenging task and encourage the collaboration between the CRM, GCM and RCM modelers.

6. US CLIVAR/NCAR ASP Researcher Colloquium on Statistical Assessment of Extreme Weather Phenomena under Climate Change

June 13-17, 2011 Boulder, Colorado

The US CLIVAR/NCAR Research Colloquium will assemble climate researchers, statisticians, decision and policy makers to discuss the state of the art in science of weather and climate extremes and its application to real-world decision-making.

Participation is limited. If you are interested in participating, please submit an application with your CV and a brief statement of interest via an online application at:

<http://www.regonline.com/Register/Checkin.aspx?EventID=931739>

Travel support is available. The deadline for applications is March 28, 2011. For a complete update on the colloquium: <http://www.asp.ucar.edu/colloquium/2011/index.php>

ANNOUNCEMENTS:

- **National Research Council America's Climate Choices reports available**

- **Latest Issue of GEWEX Newsletter Available Online**

The latest issue of the GEWEX Newsletter is available to download at

<http://www.gewex.org/images/Feb2011.pdf>

Contents include:

- Release of the 24.5 year Surface Radiation Budget data set (shows the larger variability of SW downward fluxes and latitudinal propagation of anomalies from the 1991 Mt. Pinatubo eruption and the 1987-88 and 1988-99 El Nino episodes)
- Early results from the GEWEX Radiation Flux Assessment
- Results from the September 2010 WCRP/UNESCO Workshop on Metrics and Methodologies of Estimation of Extreme Climate Events
- GEWEX Panel Meeting Reports

- **New Goddard Giovanni Tools for Supporting Year of Tropical Convection (YoTC)**

Two beta Giovanni prototypes have been released recently:

YOTC-GS L3 is a web-based graphics and analysis tool to explore Level 3 data products (MODIS Terra, Aqua AIRS, AMSR-E, TRMM, etc.)

YOTC-GS L2 is a web-based graphics and analysis tool to explore Level 2 data products (TRMM, AIRS, Merged IR, QuikSCAT, AMSR-E, etc.)

YOTC-GS L3 contains daily mosaics of ~88 parameters ranging from cloud top temperature to aerosol optical depth, providing environmental conditions of both global and regional scales in 2 and 3 dimensions. 7 functions are available for data analysis and visualization.

Users can download analysis results, original data or subsets for further analysis as well.

YOTC-GS L2 provides an easy access to Level-2 satellite orbital data, also known as swath data. Currently there are ~14 parameters for profile and 60 parameters for swath. With YOTC-GS L2, users can plot a profile or generate a swath map for an event displayed in the map selection area (see Figure 1).

Additional tools are the Hurricane Data Analysis Tool (HDAT:

<http://disc.gsfc.nasa.gov/HDAT>) allowing to access 11 years of geostationary IR data and generate customized B/W and false color imagery and animation. Other useful Giovanni tools can be found in: <http://giovanni.gsfc.nasa.gov/>. All Giovanni tools are web-based, allowing to access data without data and software downloading. Additional resources for the Giovanni Systems are available: <http://disc.sci.gsfc.nasa.gov/YOTC>

Your comments and suggestions are welcome.