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### **CALENDAR of UPCOMING EVENTS**

(for more information-[www.usclivar.org/calendar.html](http://www.usclivar.org/calendar.html))

#### **May 2008**

6-9: 3rd JCOMM Workshop on Advances in Marine Climatology (Poland)

12-14: CLIVAR/GOOS Indian Ocean Panel Meeting (Indonesia)

12-14: 3rd CCI/CLIVAR/JCOMM Expert Team on Climate Change Detection and Indices Meeting (The Netherlands)

19-23: Symposium on the "Effects of Climate Change on the World's Oceans" (Spain)

#### **June 2008**

2-4: International GODAE Steering Team Meeting (Silver Spring, MD)

10-12: 2<sup>nd</sup> Joint GOSUD/SAMOS Workshop (Seattle, Washington)

17-19: CCSM Annual Meeting (Breckenridge, CO)

#### **Research Opportunities**

##### **1. Research Opportunities in Space and Earth Sciences (ROSES) 2008**

The overarching purpose of the Applied Sciences Program is to discover and demonstrate innovative applications of NASA Earth science research and technology and to maximize the benefits to society of the nation's investments in the NASA Earth science research program. To this end, the program develops and demonstrates practical applications of NASA Earth science

observations and research through demonstration projects carried out in partnership with end user organizations.

Decision Support through Earth Science Research Results (Appendix A.18) solicits proposals that focus on improving decision making activities for the eight national application areas. The due dates for proposals to this program have been deferred. Notices of Intent to propose (NOIs) are due June 17, 2008. Proposals are due August 13, 2008.

Earth Science Applications Feasibility Studies (Appendix A.19) solicits proposals to develop and demonstrate practical applications of NASA Earth science observations and research through demonstration projects carried out in partnership with end user organizations. The period of performance for solicited investigations in this program element has been increased to 12-18 months. The due dates for this program element have been deferred. Notices of Intent to propose (NOIs) are due June 18, 2008. Proposals are due August 27, 2008.

On or about March 19, 2008, this Amendment to the NASA Research Announcement "Research Opportunities in Space and Earth Sciences (ROSES) 2008" (NNH08ZDA001N) will be posted on the NASA research opportunity homepage at <http://nspires.nasaprs.com/> (select "Solicitations" then "Open Solicitations" then "NNH08ZDA001N").

Further information about this program element is available from Mr. Lawrence Friedl, Applied Sciences Program, Earth Science Division, Science Mission Directorate, NASA Headquarters, Washington, DC 20546-0001; Telephone: (202) 358-1599; E-mail: [LFriedl@nasa.gov](mailto:LFriedl@nasa.gov).

### **Position Announcements**

#### **2. Postdoctoral Positions University of New South Wales, Australia**

Two postdoc positions are available in ocean thermohaline circulation / carbon cycle modeling at the University of NSW, Sydney, Australia. Complete job description can be found at: <http://www.hr.unsw.edu.au/services/recruitment/jobs/07030803.html>

### **Meetings and Workshops**

#### **3. 2008 Summer Science Workshop July 21-24, 2008 in Woods Hole, MA**

**CLIMATE SENSITIVITY OF ECOSYSTEM STRUCTURE AND ASSOCIATED IMPACTS ON BIOGEOCHEMICAL CYCLES:** Implications of climate variability and climate change for ocean biogeochemistry and benthic and pelagic ecosystems covering all trophic levels.

**CARBON UPTAKE AND STORAGE:** Recent observational and modeling findings quantifying the magnitude and trends in ocean carbon fluxes and carbon storage.

**TEMPORAL TRENDS IN ECOSYSTEM VARIABILITY:** Application of ocean time-series data to characterize ecosystem response to varying climatic and biogeochemical boundary conditions. The session will include both modern and paleo-time-series in order to place the trends over the past century and future trends in a broader temporal context.

Each day we will focus on one theme, which will include a morning plenary session, followed by afternoon breakout sessions on more detailed sub-topics within that theme, and then a late afternoon poster session. The purpose of the breakouts is to facilitate more detailed discussions on research priorities and opportunities within each theme. A set of near- and long-term

objectives will be developed, from which the OCB research community could begin to formulate ideas for single or multi-PI projects to advance the field.

Registration for the workshop is available at: <http://www.who.edu/sites/ocbworkshop2008>. The registration **deadline is June 10, 2008**

#### **4. Ninth International Conference on Southern Hemisphere Meteorology and Oceanography 9-13 February 2009, Melbourne, Australia**

Preliminary programs, registration details, hotel, and general information will be posted on the AMS Web site (<http://www.ametsoc.org>) and on the Local Organizing Committee web site (<http://9icshmo.org>) by late January 2008. Poster as well as oral presentations are solicited on all aspects of the meteorology and oceanography of the Southern Hemisphere. The meeting is organized around the broad theme: "Extremes: Climate and Water in the Southern Hemisphere" Particular attention will be given to the following theme areas, however it should be stressed that a broad range of submissions are encouraged and are NOT restricted just to the following areas:

- The International Polar Year
- Ocean and Atmosphere Observations in the Southern Hemisphere
- Inter-Ocean Exchanges and Southern Hemisphere Ocean Modeling
- Earth System Science Issues in the Southern Hemisphere
- Monsoon Systems and Extremes
- Paleoclimate of the Southern Hemisphere: The Past Informing the Future
- Extremes in the Context of Interannual to Interdecadal Variability
- Weather, Climate and Hydrological Predictions in the Southern Hemisphere
- Urban climate and Air quality
- Special Session on Southern Hemisphere THORPEX
- Special Session on Pacific Island Science Activities
- Special Session on Regional Climate Change Studies in the Southern Hemisphere

The Program Committee also encourages submissions on recent scientific accomplishments and synthesis for the Southern Hemisphere for global programs like WCRP, CLIVAR, GEWEX, IGBP, GCOS, GOOS, GEOSS, and IPCC. Please submit your abstract electronically via the Web by **1 August 2008** (refer to the conference Web page at <http://9icshmo.org> for instructions). Authors of accepted presentations will be notified (via e-mail) by 15 September 2008. There will be a limited amount of funding to support the participation in 9ICSHMO of graduate students, young scientists, or scientists from developing countries, and information on that will be available on the conference web site. Instructions for formatting extended abstracts for the conference web site will be posted on the AMS Web site and on the Local Organizing Committee Website. Extended abstracts must be submitted electronically by 23 January 2009 to the Conference Web page. The 9ICSHMO is committed to being as carbon neutral as possible, and as such will adhere to recently adopted Green meeting guidelines from the AMS that demonstrates a commitment to environmental stewardship and in particular to reducing greenhouse gas emissions associated with running the meeting. Therefore, the 9ICSHMO web site will have opportunities for people to purchase carbon offsets related to their travel to the conference.

#### **5. 2008 Western Pacific Geophysics Meeting Cairns, Australia, 29 July - 1 August 2008 <http://www.agu.org/meetings/wp08/?content=home> ABSTRACT DEADLINE: 16 April 2008**

#### *U04: Droughts: Mechanisms, Forcings, and Feedbacks*

Droughts have had a history of affecting cultures and civilizations but the renewed focus has been motivated by the potential for enhanced and longer-lasting droughts under global warming. The much-discussed Sahelian multi-decadal rainfall regimes, the nearly decade-long dry conditions in the Southwest U.S., and parts of Australia have generated a number of studies exploring the mechanisms driving them. On seasonal to interannual time-scales, well-known climate modes such as El Nino-Southern Oscillation, Indian Ocean Zonal/Dipole Mode, and the Atlantic meridional and zonal modes can often be identified as the causes but the persistence of droughts into multi-year patterns are not well understood. We wish to bring mechanistic focus to this issue and identify boundary forcings such as SST anomaly patterns, aerosol interactions with convection and soil moisture feedbacks to shed light on processes that drive these mega-droughts. Paleo evidences of mega-droughts with attributions may provide examples for understanding the 20th century droughts and for projecting into the future to quantify the impact of global warming on the processes that drive long-lasting dry conditions. Observations and dynamical/statistical or process modeling contributions are solicited with special focus on mechanisms that persist boundary forcings that drive extended-period droughts and may offer predictive understanding.

#### **6. 2nd Joint GOSUD/SAMOS Workshop 10-12 June 2008 Seattle, Washington**

Deadline for registration and abstract submission is **1 April 2008**. If you are interested in participating in the workshop, please register on line at:  
[http://www.coaps.fsu.edu/RVSMDC/marine\\_workshop4/](http://www.coaps.fsu.edu/RVSMDC/marine_workshop4/).

If you have any problems with registration or abstract submission, please contact Shawn Smith ([smith@coaps.fsu.edu](mailto:smith@coaps.fsu.edu)).

Also note that there are a limited number of rooms available at the Silver Cloud Hotel - Stadium (206-204-9800 or 800-497-1261) for the workshop. Please make your reservations as soon as possible to ensure you receive the workshop rate of \$152 + tax per night. The deadline for room reservations is **9 May 2008**. Hotel information is available under the "lodging" link on the workshop web page.

A preliminary agenda will be posted in April. For those making travel arrangements, please plan for three full days of the workshop 8:30-5:30 on 10-12 June 2008.

#### **New Products and Reports Available:**

- **Commenting period for Synthesis and Assessment Product 5.3: Decision support experiments and evaluations using seasonal to interannual forecasts and observational data**

DATES: Comments must be received by **COB 2 May 2008**.

ADDRESS: The Draft Report is posted on the CCSP web site at:  
[www.climate-science.gov/Library/sap/sap5-3/public-review-draft/](http://www.climate-science.gov/Library/sap/sap5-3/public-review-draft/)

COMMENTS: Detailed instructions, including formatting and submitting comments is posted on the CCSP web site at: [www.climate-science.gov/Library/sap/sap5-3/public-review-draft/sap5-3draft-instructions.htm](http://www.climate-science.gov/Library/sap/sap5-3/public-review-draft/sap5-3draft-instructions.htm)

INVITATION LETTER: From Dr. William J. Brennan, Acting Director, Climate Change Science Program and, Deputy Assistant Secretary of Commerce for International Affairs,

National Oceanic and Atmospheric Administration.  
[www.climate-science.gov/Library/sap/sap5-3/public-review-draft/sap5-3draft-invite.htm](http://www.climate-science.gov/Library/sap/sap5-3/public-review-draft/sap5-3draft-invite.htm)

To ensure that your comments are routed correctly, please submit them in the prescribed format (see link above) to [5.3-seasonal\\_DecisionSupport@usgcrp.gov](mailto:5.3-seasonal_DecisionSupport@usgcrp.gov)

- **Hurricane Data Analysis Tool Released**

Hurricane Data Analysis Tool: NCEP Reanalysis Data Added to QuikSCAT Ocean Surface Wind, TRMM Precipitation, and TMI Sea Surface Temperature Overlays

Scientists, students, and applications users seeking on-the-fly visualizations of satellite and model hurricane related data now have additional datasets and features at their service, through the Hurricane Data Analysis tool ([http://disc.gsfc.nasa.gov/hurricane/trmm\\_quikscat\\_analysis.shtml](http://disc.gsfc.nasa.gov/hurricane/trmm_quikscat_analysis.shtml)). Users can visualize overlays and analyze NASA's daily Quick Scatterometer (QuikSCAT) ocean surface wind, Tropical Rainfall Measuring Mission (TRMM) precipitation, TRMM Microwave Imager (TMI) sea surface temperature (SST), NCEP Reanalysis sea level pressure (SLP) and NCEP Reanalysis winds, by simply making temporal and spatial selections of choice.

As a part of the NASA Goddard Earth Sciences (GES) Data and Information Services Center (DISC) Hurricane Portal <http://disc.gsfc.nasa.gov/hurricane/>, this tool is intended to assist researchers to investigate key parameters for tropical cyclones, hurricanes and typhoons around the world prior to selecting and downloading the data of most interest. It also helps them to investigate other oceanic and atmospheric events, such as, precipitation, monsoon events, island blocking effects, etc. Current functions include area (latitude-longitude) and time series (area averaging) plots and their overlays. More capabilities and data will be added in the future.

A similar interactive access to other DISC's data along with the online visualization and statistical analysis is available via Giovanni. <<http://giovanni.gsfc.nasa.gov>>  
QuikSCAT ocean surface winds are provided by the Physical Oceanography Distributed Active Archive Center (PO.DAAC) <http://podaac.jpl.nasa.gov>. TMI SST data are provided by Remote Sensing Systems <http://www.ssmi.com>. NCEP sea level pressure, zonal and meridional wind at 1000, 850, and 200 hPa level data are obtained from NCEP's Global Forecast System analysis <http://nomads.ncdc.noaa.gov/data>. All other data are resident at the NASA GES DISC (<http://disc.gsfc.nasa.gov>)

- **CERES Data Released**

The Atmospheric Science Data Center (ASDC) at NASA Langley Research Center in collaboration with the CERES Science Team announces the release of the following data sets: Monthly Gridded Radiative Fluxes and Clouds (FSW):

CER\_FSW\_Aqua-FM3-MODIS\_Edition2B  
CER\_FSW\_Aqua-FM4-MODIS\_Edition2B and  
Terra:

CER\_SFC\_Terra-FM1-MODIS\_Edition2F  
CER\_SFC\_Terra-FM2-MODIS\_Edition2F

Aqua:  
CER\_SFC\_Aqua-FM3-MODIS\_Edition2C

The FSW archival data product contains hourly single satellite flux and cloud parameters averaged over 1.0-degree regions. Input to the FSW Subsystem is the CRS archival data

product. The Aqua FSW Edition2B contains the gridded results from the newly released Aqua CRS Edition2B dataset. Each FSW covers a single month of data from a single CERES instrument mounted on one satellite. Individual Aqua FSW Edition2B files contain information for 3 consecutive latitude bands. Temporal coverage for the FSW Aqua Edition 2B data set is from July 2002 through April 2006.

Data files are in the form:

CER\_FSW\_Aqua-FM3-MODIS\_Edition2A\_000000.yyyymmZzz CER\_FSW\_Aqua-FM4-MODIS\_Edition2A\_000000.yyyymmZzz where: 000000 is the configuration code  
yyyy is the data year  
mm is the data month  
dd is the data day  
hh is the data hour  
zz is the latitude zone (Z01= 87N to 90N, Z60= 87S to 90S)

The Monthly Gridded TOA/Surface Fluxes and Clouds (SFC) data product contains hourly single satellite surface/Top-of-Atmosphere flux and cloud parameters averaged over 1.0-degree regions. For each instrument, there are 36 SFC files per month and each file contains five 1.0-degree latitude zones. The Terra Edition2F SFC data set is a continuation of the Terra Edition2C data set and the Aqua Edition2C SFC data set is a continuation of the Aqua Edition2B data set. The edition change is to differentiate the MODIS collection 4 and 5 input.

The temporal coverage for the SFC Terra Edition2F data set and the SFC Aqua Edition 2C data sets is from May 2006 through December 2006.

Information about the CERES products, including products available, documentation, relevant links, sample software, tools for working with the data, etc. can be found at the CERES data table: [http://eosweb.larc.nasa.gov/PRODOCS/ceres/table\\_ceres.html](http://eosweb.larc.nasa.gov/PRODOCS/ceres/table_ceres.html)

- **WGSIP Report**

The Report of the 11th Meeting of the Working Group on Seasonal to Interannual Prediction is available to download at: <http://eprints.soton.ac.uk/49695/> or from the CLIVAR web site <http://www.clivar.org/>

- **VAMOS Newsletter**

A new issue of the VAMOS! newsletter has been posted at: [http://www.clivar.org/organization/vamos/Publications/vamos\\_nl4.pdf](http://www.clivar.org/organization/vamos/Publications/vamos_nl4.pdf)