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## **May 2010 U.S. CLIVAR News-gram**

### **Table of Contents**

#### **i – Calendar of Upcoming Events**

#### **Research Opportunities**

1. FY11 research opportunities in NOAA Climate Program
2. Special Partnership for Observation of the Global Oceans (POGO) Visiting Fellowship

#### **Position Announcements**

3. Faculty Position: The College of Oceanic and Atmospheric Sciences (COAS) at Oregon State University

#### **Meetings and Workshops**

4. Extremes Workshop deadline Extension
5. Aquarius SAC-D Science Meeting
6. CLIVAR WGOMD–GSOP Workshop on Decadal Variability, Predictability and Prediction

#### **ANNOUNCEMENTS**

- **GEWEX Newsletter**
- **New Web Page Arctic Sea Ice Volume Anomaly Polar Science Center**
- **New interim 2009 AVHRR Version 5 Pathfinder SST data available**

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### **CALENDAR of UPCOMING EVENTS**

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

#### **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)

17-20: CLIVAR SSG Meeting (Denver, CO)

#### **June 2010**

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

21-23: CLIVAR Extremes Workshop (Paris, France)

22-25: AGU Western Geophysics Meeting (Taiwan)

28 – 2 July: CCSM Annual Meeting (Breckenridge, CO)

#### **July 2010**

7-9: US CLIVAR Summit (Denver, CO)

19-21: Aquarius Meeting (Seattle, WA)

#### **Research Opportunities**

##### **1. FY11 research opportunities in NOAA Climate Program (CPO)**

<http://www.climate.noaa.gov/opportunities/>

Although letters of intents (LOIs) are optional, they are strongly encouraged. All LOIs should be received at the Climate Program Office by 5 p.m. Eastern Time, May 26, 2010. See information sheets for guidance on LOI submission.

Recently, NOAA CPO grants programs have been re-structured into four main programs: 1) Climate Observation and Monitoring (COM), 2) Earth System Science (ESS), 3) Modeling, Analysis, Predictions, and Projections Program and 4) Climate and Societal Interactions (CSI). For more information, please check the "Program Activities" page at [http://www.cpo.noaa.gov/cpo\\_pa/](http://www.cpo.noaa.gov/cpo_pa/). The FY11 funding opportunities reflect this new program structure.

The MAPP Program builds upon the following CPO predecessor programs: Climate Dynamics and Experimental Prediction (Applied Research Centers (ARCs), Climate Test Bed (CTB), Reanalysis), and the elements of Climate Prediction Program for the Americas (CPPA) and Climate Variability and Predictability (CVP) most closely related to MAPP's objectives; remaining elements of CPPA and CVP programs are included in the Earth System Science (ESS) Program. In FY11, the MAPP Program has three competitions, and an additional one jointly announced with the ESS Program.

## **2. Special Partnership for Observation of the Global Oceans (POGO) Visiting Fellowship**

The Partnership for Observation of the Global Oceans (POGO) announces a special Fellowship for on-board training on an Atlantic Meridional Transect (AMT - ([www.amt-uk.org](http://www.amt-uk.org))) Cruise. One berth has been reserved on the next AMT cruise for the selected candidate. The programme is designed to promote training and capacity building leading towards a global observation scheme for the oceans.

This fellowship program is open to scientists, technicians, graduate students (PhD) and Post-doctoral Fellows involved in oceanographic work at centres in developing countries and countries with economies in transition.

The selected candidate will have the opportunity to visit either Plymouth Marine Laboratory (PML) or National Oceanography Centre, Southampton (NOCS) in the UK, for one month prior to the start of the cruise to participate in cruise preparation and planning; to go on the cruise (12 October – 25 November 2010) and help make hydrological, bio-optical and ecological observations; and after the cruise to spend one additional month at PML or NOCS, learning to analyse the results statistically and interpret them. Core measurements are planned to include phytoplankton, zooplankton and bacterioplankton diversity, <sup>14</sup>C primary production, nitrogen cycling, respiration, pCO<sub>2</sub>, fast repetition rate fluorometry, optics, colored dissolved organic matter (CDOM), pigments and micromolar nutrients.

**Total period of Fellowship:** 13 September 2010 – 17 December 2010. Candidates should be available to participate for the full period.

Fellowship applicants should complete and submit the application form attached. Only applications that are complete in all respects will be considered for the competition. Deadline: The deadline for the next round of applications is **June 1, 2010**.

## **Position Announcements**

### **7. Faculty Position: The College of Oceanic and Atmospheric Sciences (COAS) at Oregon State University**

A research colleague is sought who will work with a team of oceanographers to conduct the collection and analysis of oceanographic data from autonomous (robotic) underwater gliders, moorings, and ship-based instrumentation. The successful applicant will become part of the OSU team working on a variety of field programs off the Oregon coast and at other sites around the world. **Background Information:** COAS is one of the world's leading oceanographic and atmospheric sciences graduate research institutions, with more than 200 faculty and staff members, more than 90 graduate students, and a wide variety of assets including an excellent computing infrastructure, state-of-the-art analytical facilities, and two research vessels. Appointment: 12-month full-time, (1.0 FTE) fixed term appointment. Annual salary range is \$38,000-\$46,000, commensurate with qualifications. Duration is one year, but may be extended depending on grant funding and satisfactory job performance. Reappointment is at the discretion of the principal investigators and the Dean.

**Responsibilities and Duties:** Key duties of the position include conducting data collection efforts from autonomous (robotic) underwater gliders, moorings, and ship-based instrumentation. The applicant will be expected to prepare, maintain and operate a wide range of oceanographic instrumentation, organize lab activities, execute oceanographic fieldwork, and assist with the post-processing, quality control and analysis of the data. The successful applicant must be able to work effectively as part of a team and at sea, and be able to travel.

**Qualifications (Required):** Bachelor's degree in science or engineering (preferably in oceanography or related field); experience with oceanographic research instrumentation; ability to work effectively at sea which involves lifting/carrying/moving instrument packages; experience using scientific analysis and graphing software; demonstrated organizational skills and leadership; experience collecting data which is used for publishable work; good oral and written communication skills; ability to work as part of a team; valid driver's license; ability to travel. Preferred: Experience with Matlab programming and graphing package, and a demonstrable commitment to promoting and enhancing diversity.

**University and Community:** OSU is one of only two American universities to hold the Land-, Sea-, Sun- and Space-Grant designations and is the only Oregon institution recognized for its "very high research activity" (RU/VH) by the Carnegie Foundation for the Advancement of Teaching. OSU is comprised of 11 academic colleges with strengths in natural resources, earth dynamics and sustainability, life sciences, entrepreneurship and the arts and sciences. OSU has facilities and/or programs in every county in the state, including 12 regional experiment stations, 41 county extension offices, a branch campus in Bend, a major marine science center in Newport, and a range of programs and facilities in Portland. OSU is Oregon's largest public research university, conducting more than 60 percent of the research funded throughout the state's university system. OSU is located in Corvallis, a community of 53,000 people situated in the Willamette Valley between Portland and Eugene. Ocean beaches, lakes, rivers, forests, high desert, the rugged Cascade and Coast Ranges, and the urban amenities of the Portland metropolitan area are all within a 100 mile drive of Corvallis. Approximately 16,000 undergraduate and 3,500 graduate students are enrolled at OSU, including 2,900 U.S. students of color and 930 international students. The university has an institution-wide commitment to diversity, multiculturalism and community. OSU provides outstanding leadership opportunities for people interested in promoting and enhancing diversity, nurturing creativity and building community. **Application Deadline: Closing date is 15 May 2010.**

**To Apply:** To review posting and to apply electronically, go to <http://oregonstate.edu/jobs> (posting 0005544) and for the position announcement, go to <http://www.coas.oregonstate.edu/> or contact Dr. Kipp Shearman, (541)737-1866 (phone), (541)737-2064.

## **Meetings and Workshops**

### **4. Extremes Workshop deadline Extension**

The abstract submission for the WCRP-UNESCO (GEWEX/CLIVAR/International

Hydrology Program) Workshop on metrics and methodologies of estimation of extreme climate events has been extended to **31 May 2010**. The Workshop will be held 27-29 September 2010 at UNESCO headquarters, in Paris, France, and will focus on phenomenology and methodological aspects of the quantitative estimation of different climate extremes under observed and future climate conditions using observational and model data. The Workshop aim is to facilitate an open dialogue between climatologists from different areas (meteorology, hydrology, oceanography), data producers (in-situ, satellites, numerical weather prediction, climate model community), and statisticians on a strategy for the development of robust and reliable characteristics of extremes and the best methodologies for their estimation.

Website: <http://www.extremeworkshop.org>

### **5. Aquarius SAC-D Science Meeting 19-21 July 2010 Seattle, Washington, USA**

**Agenda:** This meeting will emphasize the Aquarius/SAC-D science team activities and preparations for the upcoming launch, including the in-orbit checkout, data processing, calibration, validation and near-term data analysis, as well as near-term science applications. The meeting is open to the broader scientific community.

**Oral and Poster Presentations:** The agenda will be tightly organized with invited oral presentations and contributed posters. More details about the agenda and oral presentations will be provided in the coming weeks.

**Location of the Meeting:** Bell Harbor Conference Center. <http://www.bellharbor.com/>

**Conference Website:** <http://depts.washington.edu/uwconf/aquarius/> provides conference registration, preliminary agenda, abstract submission, venue, lodging and transportation information. Please register and book your lodging early.

**Registration and Abstracts:** There is no registration fee. However advance registration and abstract submissions are required via the conference website. Deadline for abstracts and registration: **June 30, 2010**.

### **6. CLIVAR WGOMD–GSOP Workshop on Decadal Variability, Predictability and Prediction NCAR, Boulder, Colorado, USA 20-23 September 2010**

The main goals of the workshop are:

- To assess how well the ocean models and ocean syntheses reproduce observed decadal variability,
- To understand and evaluate the robustness of simulated ocean internal variability,
- To identify the underlying physical mechanisms in the ocean in decadal climate variability,
- To evaluate the outcomes of the CMIP5 decadal prediction experiments.

Sessions will cover i) Observed and simulated oceanic decadal variability, ii) Decadal Climate Variability and the Role of the Ocean, iii) Initialization, Predictability, and Predictions: The Role of Ocean Synthesis and Hindcasts, iv) Ocean and coupled syntheses, and v) Climate Observations Required for Understanding Predictions.

The workshop will consist of invited plenary speakers and contributed talks and posters. The plenary talks will review and encourage the discussion of the current state of research related to a particular topic with candid and critical comments. Session discussions will assess community consensus and future coordinated directions and the workshop will culminate in a final summary

discussion session on what could be achieved by a joint effort, looking at whether the community could develop a common framework.

For more information, to register, submit abstracts and apply for travel support see:  
<http://www.clivar.org/decadal.php>

**ANNOUNCEMENTS:**

- **GEWEX Newsletter**  
The latest issue of the GEWEX Newsletter is available to download at: <http://gewex.org/>
- **New Web Page Arctic Sea Ice Volume Anomaly Polar Science Center**  
University of Washington Researchers at the University of Washington's Polar Science Center have created a web page that provides up-to-date Arctic Sea Ice Volume Anomaly estimates from the Pan-Arctic Ice Ocean Modeling and Assimilation System (PIOMAS). It is available at: <http://psc.apl.washington.edu/ArcticSeaIceVolume/IceVolume.php>.  
The purpose of the web page is to visualize recent sea ice volume changes in the context of longer-term variability. Arctic sea ice volume is an important indicator of climate change because it accounts for variations in sea ice thickness as well as sea ice extent. Total arctic sea ice volume cannot currently be observed continuously. Observations from satellites, Navy submarines, moorings, and field measurements are limited in space or time. The assimilation of observations into numerical models currently provides one way of estimating sea ice volume changes on a continuing basis. Volume estimates using age of sea ice as a proxy for ice thickness are another useful method. For further information, please go to: <http://psc.apl.washington.edu/ArcticSeaIceVolume/IceVolume.php>.
- **New interim 2009 AVHRR Version 5 Pathfinder SST data available**  
This extends the longest continuous SST data from 1981 through 2009. These data, processed by the NODC, can be accessed at:  
[http://podaac.jpl.nasa.gov/DATA\\_CATALOG/sst.html](http://podaac.jpl.nasa.gov/DATA_CATALOG/sst.html) . The direct ftp url is [ftp://podaac.jpl.nasa.gov/pub/sea\\_surface\\_temperature/avhrr/pathfinder/data\\_v5](ftp://podaac.jpl.nasa.gov/pub/sea_surface_temperature/avhrr/pathfinder/data_v5)