

January 2007
U.S. CLIVAR News-gram

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CALENDAR of UPCOMING EVENTS (for more information - www.usclivar.org/calendar.html)

January 2007:

14-18: AMS Annual Meeting (San Antonio, TX)

February 2007:

12-16: WGNE Workshop on Systematic Errors in Climate and NWP Models (San Francisco, CA)

28 – 1 March: Community Climate System Model Advisory Board (Washington, DC)

March 2007:

6-9: SOLAS Open Science Conference (China)

12-14: Coordinated Enhanced Observing Period (CEOP) International Implementation Planning Meeting (Washington, DC)

20-21: Subpolar Gyre Workshop (Kiel, Germany)

27-30: Climate Prediction Application Science Workshop (Seattle, Washington)

Research Opportunities

1. Preproposals - Atmospheric Radiation Measurement (ARM) Climate Research Facility U.S. Department of Energy
Preproposal Deadline: Thursday, 15 March 2007

The U.S. Department of Energy welcomes preproposals for FY 2009 field campaigns requesting use of any ARM Climate Research Facility (ACRF), including the North Slope of Alaska (NSA), ARM Mobile Facility (AMF), or ARM Aerial Vehicles Program (AVP).

ACRF provides access for domestic and international scientists to several highly instrumented ground stations for studying cloud formation processes and their influence on radiative transfer and for measuring other parameters that determine the radiative properties of the atmosphere. NSA is one such fixed site that is centered at Barrow and extends south to Atkasuk, west to Wainwright, and east toward Oliktok, and has become a focal point for atmospheric and ecological research in the Arctic.

Requests for use of the AMF should include a deployment time of six to ten months, and preference will be given to deployments in which the AMF is embedded in a larger field campaign. Proposals for the ARM AVP for a short-term field campaign (six weeks or less) must use either fixed ACRF sites or the AMF. However, more latitude will be given for routine flights, which may fly patterns away from the fixed sites and the AMF.

Preproposals should be submitted online through the field campaign form at the ACRF website by Thursday, March 2007. Preproposals should demonstrate that research funding has already been secured or that a proposal to a funding agency has been submitted. A select number of full proposals will be invited, which will be due by 15 May 2007.

For further information and to submit a preproposal, please go to: <http://www.arm.gov/acrf/> or contact:

Wanda R. Ferrell, Program Director
ARM Climate Research Facility
E-mail: Wanda.Ferrell@science.doe.gov

Announcements

- **Integrated Marine Biogeochemistry and Ecosystem Research Newsletter**
The IMBER Update No. 5 is now available for downloading at <http://www.imber.info/newsletters.html>
- **Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observation (CALIPSO) satellite mission data released**
CALIPSO provides new insight into the role that clouds and atmospheric aerosols (airborne particles) play in regulating Earth's weather, climate, and air quality. CALIPSO is a joint mission between NASA and CNES, the French space agency.
CALIPSO's payload includes an active lidar (CALIOP), a passive Infrared Imaging Radiometer (IIR), and a visible Wide Field Camera. This data release consists of data beginning in mid June 2006 and includes Level 1 radiances from each of the instruments. This release also includes the lidar Level 2 vertical feature mask and cloud and aerosol layer products. The CALIPSO data are available through the Atmospheric Science Data Center (ASDC) at NASA Langley Research Center and can be accessed at the following URL: http://eosweb.larc.nasa.gov/PRODOCS/calipso/table_calipso.html

- **Request for Comments on Draft Report - Integrated Global Observing Strategy (IGOS)
Comment Submission Deadline: Monday, 15 January 2007**

The Integrated Global Observing Strategy (IGOS), a partnership of 14 international organizations concerned with the observational component of global environmental issues from both a research and long term operational program perspective, invites comment on its Cryosphere Theme draft report.

The IGOS Cryosphere Theme is a combined initiative of the World Climate Research Programme, Climate and Cryosphere Project, and Scientific Committee on Antarctic Research. The intent is to increase support for, and improve coordination of, cryospheric observations conducted by research, long-term scientific monitoring, and operational programs and to enhance data and information systems for the cryosphere.

The draft report is a product of Cryosphere Theme workshops convened internationally to examine observational capabilities and requirements and develop recommendations that will improve IGOS ability to monitor the cryosphere, assess its impact on climate and society, and foster the exchange of cryospheric information. Authored by IGOS, workshop attendees, and other interested scientists, the draft report describes and addresses shortcomings of the current observational systems for all elements of the cryosphere, presents a comprehensive list of recommendations and implementation actions for improving the global cryospheric observing system, and outlines linkages with other programs that are integral parts of the implementation process.

Comments on the draft report can be submitted via the IGOS Cryosphere Theme forum (<http://igos-cryosphere.org>) or by e-mail (jkey@ssec.wisc.edu).

Position Announcements

2. Colorado State University – Tenure Track Positions

Atmospheric Dynamics (<http://www.atmos.colostate.edu/employment/index.php>)

The Department of Atmospheric Science at Colorado State University is seeking applicants for a tenure-track faculty position in atmospheric dynamics. Applicants will be considered at the assistant or associate professor level. Under exceptional circumstances, appointment at the full professor level may be considered. The successful candidate is expected to maintain a strong independent research program supported through external funding, to teach graduate-level courses, including atmospheric dynamics, and to enhance the Department's curriculum. The Department encourages applications from candidates with expertise in theory, modeling, and/or observations of large-scale and/or mesoscale atmospheric dynamics. Applications from candidates with research and teaching interests that complement the Department's existing programs are particularly encouraged. Further information about existing Department programs can be found at <http://www.atmos.colostate.edu/research.php>. Applicants must demonstrate a strong potential for innovative, independent, and collaborative research and excellence in teaching and advising at the graduate level.

A Ph.D. in Atmospheric Science or a closely related field is required.

Applications and nominations will be considered until the position is filled; however, applicants should submit applications by **January 31, 2007** for full consideration. Applicants should submit curriculum vitae, descriptions of research and teaching interests, and the names of four references to: Professor Steven A. Rutledge, Head Department of Atmospheric Science Colorado State University Fort Collins, CO 80523-1371

Atmospheric Physics

The Department of Atmospheric Science at Colorado State University is seeking applicants for a tenure-track assistant or associate level faculty position in the area of atmospheric physics. Exceptionally qualified candidates may be considered at the full professor level. The Department encourages applications from candidates with expertise in theory, modeling, and/or observations. Preference will be given to candidates whose interest is in the broad area of cloud processes and their role in the climate system, complementing the Department's existing research and teaching programs. Applications from female and minority candidates are strongly encouraged.

The successful candidate is expected to maintain a strong independent research program supported through external funding, to teach graduate-level courses, and to enhance the Department's curriculum. Opportunities will exist for the successful candidate to participate in the work of the Center for Multiscale Modeling of Atmospheric Processes, a new National Science Foundation Science and Technology Center for which CSU is the host institution. Further information about existing Department programs can be found at <http://www.atmos.colostate.edu/research.php>.

A Ph.D. in Atmospheric Science or a closely related field is required.

Applications and nominations will be considered until the position is filled; however, applicants should submit applications by **January 31, 2007** to ensure full consideration. Applicants should submit curriculum vitae, descriptions of research and teaching interests, and the names of four references to: Professor Steven A. Rutledge, Head Department of Atmospheric Science Colorado State University Fort Collins, CO 80523-1371

3. Union of Concerned Scientists, Climate Program Director

The Union of Concerned Scientists, a leading science-based nonprofit working for a healthy environment and a safer world, seeks Climate Program Director in Cambridge, MA or Washington, DC. UCS combines independent scientific research and citizen action to develop innovative, practical solutions and secure responsible changes in government policy, corporate practices, and consumer choices. Position requires sophisticated knowledge of climate policy, commitment to the application of science to public policy, Master's degree in relevant field, and proven management ability with technical and advocacy staff. Campaign and/or legislative experience desirable. www.ucsusa.org. Cover, resume and salary history to Egmont Associates, segmont@egmontassociates.com, 85 East India Row #24F, Boston, MA 02110, fax 857-449-0011.

For more information:

http://www.ucsusa.org/ucs/about/jobs-atucs.html#Climate_Program_Director

4. Science Officer: International Council for Science (ICSU)

The International Council for Science (ICSU), based in Paris, France, is recruiting a Science Officer to help with the implementation of its new Strategic Plan. ICSU, with a membership of 29 International Scientific Unions and 111 National Scientific Members, is dedicated to the promotion of international and interdisciplinary science. This job offers a unique opportunity for the right candidate to help ICSU in its mission to strengthen international science for the benefit of society. This Science Officer will specifically assist in the continued strategic planning for ICSU's portfolio, which focuses on:

- (i) Planning and Coordination of Research;

- (ii) Science and Policy; and
- (iii) Universality of Science.

In this work, the individual will work with the ICSU Committee on Scientific Planning and Review. This will include providing support for the development of new initiatives, including follow-up to the Millennium Ecosystem Assessment and a newly established Panel for Renewable Energies. Work at the science and policy interface will involve preparation of input to the United Nations Commission on Sustainable Development. The ICSU Secretariat is a small international team of 15 people and the ability to work in close cooperation with others is important.

Qualifications:

ICSU is seeking candidates with:

- * an advanced scientific degree (preferably Doctorate in a relevant natural or social science discipline);
- * demonstrated science project/programme development and coordination skills;
- * excellent knowledge of English and preferably good knowledge of French and/or other languages;
- * ability to summarize scientific information and draft reports;
- * interpersonal skills and readiness to work within a team environment;
- * willingness to undertake international travel.

The salary (Euros 40,000 - 55,000 net before income tax per year) will be dependent on the experience and qualifications of the candidate. Applicants are requested to address the above description and qualifications in cover letter and attach a curriculum vitae and names of three referees. They are invited to indicate how serving in this position would support their own future science career objectives. Applications, marked Science Officer, must be received no later than **31 January 2007** and should be sent to:

Mrs. Tish Bahmani Fard, Assistant Executive Director, ICSU Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France or tishicsu.org. Further information can be obtained from Professor Thomas Rosswall, Executive Director (thomas.rosswall@icsu.org).

Science Communications Officer

This job offers a unique opportunity for the right candidate to help develop the corporate image of ICSU. He/she will also take responsibility for producing the regular publications and communications (reports, newsletter, press releases, etc.) and organizing international events and press conferences. Essential qualifications and skills are:

- * Good science background (first degree level or higher) and broad interest in science and science policy;
- * Formal qualification in science communication
- * Minimum of 5 years experience in science communication, including familiarity with press relations, ideally in an international context
- * Demonstrable science writing skills, both for print (in formal and less formal styles) and for the web
- * Confident, outgoing personality

The working language of ICSU is English, although a good knowledge of French (and other languages) would be advantageous. Salary in the range of Euros 35,000- 50,000 net p.a. before income tax. Please send applications with a full c.v. and recent examples of your writing skills (both print and web) to:

Mrs. Tish Bahmani Fard, ICSU Secretariat

51 Boulevard de Montmorency,

75016, Paris, France. E-mail: tishicsu.org; Tel.: +33 (0) 1 45 25 03 29; Fax: +33 (0) 1 42 88 94 31.

Further information can be obtained from Professor Thomas Rosswall, Executive Director (thomas.rosswall@icsu.org). The closing date for applications is **31 January 2007**.

5. PhD Student Position at Stockholm University

The Department of Meteorology at Stockholm University invites applications for a PhD student position in physical oceanography. The position includes studies of changing climate variability of the Nordic Seas and Arctic Ocean during the 20th and 21st centuries using a high-resolution coupled ice-ocean model. The successful candidate will be part of an oceanographic research group investigating warm water anomalies propagating from the Atlantic and Pacific into the Arctic and their impact on the observed sea-ice decline of the past two decades, and the projected sea-ice reduction of the 21st century.

The position is for one year and can be extended another two years. The successful candidate may also be asked to perform departmental duties such as teaching.

Applications quoting reference number SU 617-2634-06 should be submitted before Wednesday, **31 January 2007**, to:
Stockholm University
Registrar/PA
SE-106 91 Stockholm
Sweden

For further information, please go to:

<http://www.misu.su.se> or contact:

Markus Meier

Swedish Meteorological and Hydrological Institute E-mail: markus.meier@smhi.se

Meetings and Workshops

6. 12th annual Community Climate System Model (CCSM)

Workshop dates are Tuesday - Thursday, **19-21 June 2007** with the CCSM Scientific Steering Committee (SSC) meeting on Monday, 18 June). We may also have management meeting(s) on Friday, June 22.

For additional information: <http://www.ccsm.ucar.edu/>

7. XXIV General Assembly meeting of the IUGG

Perugia, Italy from 2-13 July, 2007

<http://www.iugg2007perugia.it>

The theme of the meeting is "Earth: Our Changing Planet". Over 100 sessions will take place on the campus of the University of Perugia. The IUGG web site is now accepting abstract submissions. The deadline for electronic submission is **January 31, 2007**.

Special Sessions of Interest include:

JMS018: High Latitude Modes of Climate Variability

The climates of the Arctic and Antarctic are governed by the large scale modes of atmospheric variability such as the Northern and Southern Annular Modes (NAM/SAM), and the El Niño Southern Oscillation that is manifested in high latitudes by the Pacific-North American and

Pacific-South American (PNA/PSA) patterns. The impacts of the Pacific Decadal Oscillation and the Atlantic Multidecadal Oscillation will also be explored. The symposium will be concerned with how these patterns are changing and affecting high latitude climate, how the different modes interact and the mechanisms by which this occurs, the roles of high latitude versus tropical forcing, the roles of the ocean and sea ice cover in initiating and/or amplifying change, stratospheric versus tropospheric causes of variability, and the issue of natural versus anthropogenic forcing. Contributions are solicited from all approaches that bear on these topics, such as observational studies using reanalyses and ice-core records, theoretical investigations, and all types of numerical modeling.

JMS003: Satellite Observations: Products and Applications

Starting with the launch of Tiros-N in 1978, satellite observations have revolutionized our view of the Earth and other planets. Observational techniques have been incorporated into many activities, often being used in unanticipated ways. Satellite observations are now a vital part of many scientific, industrial and social activities affecting many discipline areas and have had a significant impact in studies of many issues, both societal and scientific. This symposium will bring together practitioners from a number of fields to celebrate the success of this endeavor and to demonstrate new and exciting uses for these data. It will consist of both invited and contributed papers on a wide range of topics covering all aspects of space-based observations

JMS020: Assessing & Exploiting Re-analysis Data Sets

The compilation of spatially and temporally consistent global data sets for atmosphere variables along with associated variables at the underlying surface (- such as SST, surface, wind stress, land surface state and soil moisture) has presented the environmental community with unprecedented opportunities. It has become possible to derive global budget estimates for a range of variables, to compile climatologies of a myriad of phenomena, and to undertake detailed diagnostic analyses of environmental processes. This Inter-Association symposium will aim at assessing the strengths and weaknesses of the data sets, highlight the progress made in diagnostic studies, and preview future developments

JMS024 Data assimilation for the atmosphere, ocean and land surface

Data Assimilation is a key technique in Earth Science, allowing the exploitation of the vast quantity of measurements of the atmosphere, ocean and land surface. We are living a golden age in which a wide range of data from research satellites, such as EOS-Aura, COSMIC and CloudSat, complements the increasing amount of data from operational weather satellites. Data assimilation can organise the wealth of data from both satellite and in situ platforms to analyse the current state of the Earth System and form the basis of improved forecasts from the meso to the global scale. The session will bring together scientists working across a broad range of subject areas; particular areas will include:

- novel assimilation methods
- weather and climate prediction
- mesoscale and cloud-scale processes
- atmospheric chemistry
- oceanography
- land surface and hydrology.

MS011: The Dynamics of Eastern Tropical Oceans and Subtropical Highs (ICDM)

There is considerable current interest in the dynamics of the eastern tropical oceans, particularly with regard to the processes that maintain sea surface temperature, and with dynamics of the subtropical highs, which are often related. The topic is interpreted broadly, and studies that relate to marine stratocumulus clouds, aerosol-stratocumulus interactions, coastal upwelling and ocean eddies, systematic GCM errors in the region, and the interaction between the tropics and mid-latitude will be relevant to this symposium

New Insights into the Ocean and Its Circulation from Argo and GODAE

The Global Ocean Data Assimilation Experiment (GODAE) has been a driving force in developments in ocean state estimation. The powerful combination of satellite altimetry with the rapidly increasing abundance of data from the Argo array of profiling floats has made possible a wide range of research and operational data assimilation efforts. This symposium provides a platform to explore the wide range of regional and global results and new data assimilation techniques that have been made possible by the link between Argo and GODAE.

8. Workshop Announcement : Application of Remotely Sensed Observations in Data Assimilation

July 23- August 10, 2007 at the University of Maryland in College Park

Eligibility: Recent Ph.D. recipients and graduate students at U.S. institutions who will receive their Ph.D. in atmospheric or related sciences* prior to June 2008. On campus housing is available and support for travel and living expenses will be provided to participants.

We seek applicants from graduate students nearing the completion of their Ph. D. and recent post doctorates to participate in this workshop. Applicants should include their transcript, a brief curriculum vitae, a 1-page description of their thesis research and their interest in this Workshop, and a letter supporting their nomination from their thesis advisor. This information should be forwarded as e-mail attachments to Tammy Barksdale, tammy@atmos.umd.edu before 1 February 2007. We will inform candidates about the disposition of their applications before 15 March 2007. This announcement is also posted on <http://www.essic.umd.edu>

For more information about the Workshop contact Arnold Gruber, agruber@essic.umd.edu or Eugenia Kalnay, ekalnay@atmos.umd.edu.