

**December 2006**  
**U.S. CLIVAR News-gram**

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

**December 2006:**

- 8-9: Global Synthesis and Observation Panel Meeting (La Jolla, CA)  
11-15: AGU Fall Meeting (San Francisco, CA)

**January 2007:**

- 14-18: AMS Annual Meeting (San Antonio, TX)
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**February 2007:**

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

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## **Research Opportunities**

### **1. NASA's Ocean Biology and Biogeochemistry Research Announcement**

NASA's Ocean Biology and Biogeochemistry program is soliciting projects in the following areas: (i) Southern Ocean Carbon Program ^ Field Component, and (ii) Southern Ocean Carbon Program - Data Synthesis, Assimilation, Modeling. Notices of Intent to propose are due **December 1, 2006**, and proposals are due **February 1, 2007**.

Amendment No. 21 to the NASA Research Announcement "Research Opportunities in Space and Earth Sciences (ROSES) 2006" (NNH06ZDA001N) is posted on the NASA research opportunity homepage at <http://nspires.nasaprs.com/> (select Solicitations then Open Solicitations then NNH06ZDA001N).

#### **A.4-2**

### **2.1 Southern Ocean Carbon Program - Field Component (Air-Sea CO<sub>2</sub> Flux and Improvement of Remotely Sensed Data)**

Proposals will be considered for an interagency field study of air-sea CO<sub>2</sub> flux in the Southern Ocean (SO) aboard the NOAA ship R/V RONALD H. BROWN during boreal winter 2007-2008 focusing on understanding both a) the kinetics of gas exchange and the factors controlling it, and b) the physical and biogeochemical factors controlling the air-sea pCO<sub>2</sub> difference, in the context of developing parameterizations for those factors that can ultimately be remotely sensed to determine regional and global air-sea CO<sub>2</sub> fluxes. The Southern Ocean Gas Exchange Experiment (SO GasEx) will take place in the Atlantic sector of the Southern Ocean.

Proposals should utilize traditional remotely sensed (e.g., ocean color) observations, but may also seek to improve existing ocean color observations, or explore the development of new biological and biogeochemical properties from space-based assets beyond traditional ocean color in support of the project objectives.

Coordinated or linked projects should be proposed separately. Individual efforts may be linked with other projects, and these linkages must clearly and explicitly be called out by all involved proposals and investigators. Investigators should make clear any special platform needs, i.e. ship modifications, additional boats, aircraft, or specific sampling requirements, in a separate section. Investigators are encouraged to contact the appropriate program managers at NOAA, NSF, and NASA regarding funding opportunities.

### **2.2 Southern Ocean Carbon Program - Data Synthesis, Assimilation, and Modeling**

Significant advances can be made in regional and global ecological and biogeochemical modeling, but models need to effectively assimilate the existing observational database to

realize their practical forecasting potential. As basic research unfolds, new understandings of ocean ecosystem structure and biogeochemistry, as well as the interdependence of land, ocean, and atmosphere are realized; parallel advances must be made in assimilating new observations and insights into models that advance the state of the art in ecological and biogeochemical forecasting. In FY 2007, NASA seeks focused, multiscale data assimilation experiments and model/forecast validation studies in the Southern Ocean study area. Efforts should capitalize on existing and impending remote and in situ observations, and may include synthesized datasets, existing models, data assimilation techniques to advance the ability to quantify regional (SO) spatial and temporal variability of ocean biology and biogeochemistry, including carbon sources and sinks and primary productivity. PIs will be expected to interact with NASA's Modeling, Analysis, and Prediction Program to ensure integration of results into NASA's Earth System Modeling Framework.

Questions may be addressed to Dr. Paula Bontempi, Earth Science Division, Science Mission Directorate, National Aeronautics and Space Administration, Washington, DC 20546-0001; Telephone: (202) 358-1508; E-mail: Paula.S.Bontempi@nasa.gov.

## **2. NASA MeaSURES opportunity**

The overall objective of MEaSURES solicitations is to select projects providing Earth science data products and services driven by NASA's Earth science goals and contributing to advancing NASA Earth system "missions to measurements" concept. MEaSURES may include infusion or deployment of applicable science tools that contribute to data product quality improvement, consistency, merging or fusion, or understanding. Through the MEaSURES program, NASA is continuing its commitment to expand understanding the Earth system using consistent records. This program builds on a rich history of past NASA programs including Pathfinder Data Sets, Type 2 Earth Science Information Partners, and most lately Research REASoN projects.

NASA also announces new due dates for the MEaSURES program. Notices of Intent to **propose are due January 2, 2007, and proposals are due March 5, 2007.**

On or about December 1, 2006, Amendment No. 22 to the NASA Research Announcement "Research Opportunities in Space and Earth Sciences (ROSES) 2006" (NNH06ZDA001N) will be posted on the NASA research opportunity homepage at <http://nspires.nasaprs.com/> (select "Solicitations" then "Open Solicitations" then "NNH06ZDA001N").

## **3. NASA Graduate Fellowship Opportunity**

NASA announces a call for graduate fellowship proposals to the NASA Earth and Space Science Fellowship (NESSF) program for the 2007/2008 academic year. This call for fellowship proposals solicits applications from accredited U.S. Universities on behalf of individuals pursuing Master of Science (M.Sc.) or Doctoral (Ph.D.) degrees in Earth and space sciences, or related disciplines. The purpose of NESSF is to ensure continued training of a highly qualified workforce in disciplines needed

to achieve NASA's scientific goals outlined above. Awards resulting from the competitive selection will be made in the form of training grants to the respective universities.

The deadline for **NEW applications is February 1, 2007**, and the deadline for **RENEWAL applications is March 15, 2007**. Note that last year the program was called the Earth System Science Fellowship (ESSF) program.

The NESSF call for proposals may be found at the NESSF 07 solicitation index page at <http://nspires.nasaprs.com> (select "Solicitations" then select "Open Solicitations" then select "NESSF 07").

Proposals must be submitted electronically through NASA's NSPIRES system. The advisor has an active role in the electronic submission of the fellowship proposal. To use the NSPIRES system, the student, the advisor, and the university must all register. Once you are in the NSPIRES database system, you will be registered for all future NASA submissions. Extended instructions on how to submit an electronic proposal package are posted on the NESSF 07 solicitation index page listed above. You can register in NSPIRES here <http://nspires.nasaprs.com>.

For further information contact: Program Administrator for NESSF Earth Science Research: Anne Crouch at (202) 358-0855 or by E-mail at [hq-nessf-Earth@nasa.gov](mailto:hq-nessf-Earth@nasa.gov).

#### **4. NCAR Postdoctoral Research Opportunity - Climate and Global Dynamics Division**

The National Center for Atmospheric Research (NCAR) in Boulder, Colorado, seeks to fill a postdoctoral fellowship position in the Climate and Global Dynamics Division to participate in a model development and research program centered around northern high-latitude terrestrial climate change feedbacks in the NCAR Community Climate System Model (CCSM).

In recent decades, the Arctic has witnessed startling environmental change prompting concern that feedbacks in the arctic climate system could amplify global climate change. Perhaps of greatest concern, at least from a global perspective, is the fate of the carbon balance as the Arctic warms.

The selected postdoctoral fellow will participate in an interdisciplinary project aimed at improving the ability to simulate, understand, and predict high-latitude terrestrial climate feedbacks in CCSM. The project's goal is to develop a version of CCSM that can address the critical carbon issues in the arctic tundra, including the accumulation and loss of carbon in organic or peatland type soil profiles, the partitioning of carbon emission between methane and carbon dioxide, hydrologic cycle change related to permafrost degradation, and the interaction between temperature, nitrogen cycling, and the transition between herbaceous tundra and woody arctic scrubland. This high-priority research and model development effort will be conducted in collaboration with an interdisciplinary team of NCAR scientists and external university partners.

Initial consideration will be given to applications received prior to **Friday, 10 November 2006**. Thereafter, applications will be considered on an as needed basis.

A detailed job description is available at at: <http://www.ucar.edu>

Apply online or send a scannable resume to:

Job Number 7002  
3065 Center Green Drive  
Boulder, CO 80301

### **5. International Polar Year Funding Opportunities National Science Foundation**

The next International Polar Year (IPY) will occur from March 2007 through March 2009. IPY is envisioned as an intense scientific campaign to explore new frontiers in polar science, improve our understanding of the critical role of the polar regions in global processes, and increase public understanding of polar science. This Dear Colleague letter provides information on anticipated FY-07 National Science Foundation (NSF) funding opportunities for IPY research and education activities that have been identified to date. These opportunities will be supported through a special IPY Solicitation with focused science and education themes, and through ongoing program activities at NSF. The special IPY Solicitation and the ongoing NSF programs that will support other IPY activities are described below. Additional information can be found at <http://www.nsf.gov/od/opp/ipy/ipyinfo.jsp>.

#### **Announcements**

- **Request for Comments - U.S. Arctic Research Commission "Report on Goals and Objectives for Arctic Research 2007" Outline**  
Comment Deadline: Tuesday, 12 December 2006  
For further information and to access a copy of the report outline, please go to:  
<http://www.arctic.gov/news.htm>  
The U.S. Arctic Research Commission (USARC) is requesting public comment on "Report on Goals and Objectives for Arctic Research 2007," a draft outline that describes the national Arctic research priorities of the United States.  
Prepared biennially by USARC for the President and Congress, the report calls for finishing the International Polar Year with a sustainable Arctic Research Program. USARC also encourages initiatives on the following themes:
  - Environmental Change of the Arctic and Bering Seas;
  - Arctic Human Health;
  - Civil Infrastructure;
  - Natural Resource Assessment and Earth Science; and
  - Indigenous Language, Identity, and Culture.
- **National Ice Center Sea Ice Charts and Climatologies in Gridded Format available at the National Snow and Ice Data Center (NSIDC)**  
For further details and to access the data, please visit this corrected link  
<http://nsidc.org/data/g02172.html>
- **Hurricane Portal for Scientists, Students, and Applications Users: Open for Business**  
Scientists, students, and applications users seeking satellite data on hurricanes now have a new place to turn -- a web portal created by NASA Goddard Earth Sciences (GES) Data and Information Services Center (DISC). The new Hurricane web portal is designed for viewing and studying hurricanes with a

variety of measurements from satellite-based NASA instruments. The NASA GES-DISC Hurricane Data Portal can be found at:  
<http://disc.gsfc.nasa.gov/hurricane/index.shtml> .

- **Special Issue of the Journal of Climate: CLIVAR Conference**

A special issue of the Journal of Climate containing papers from the 1<sup>st</sup> International CLIVAR Science Conference has now been published.  
<http://ams.allenpress.com/perlserv/?request=get-toc&issn=15200442&volume=19&issue=20>

- **Public release of CloudSat Data Products**

CloudSat is a NASA ESSP (Earth System Science Pathfinder Mission) that provides from a space the first global survey of cloud profiles and cloud physical properties, with seasonal and geographical variations.

The CloudSat Cloud Profiling Radar has been operational since 2 June 2006. The CloudSat Data Processing Center (DPC) has completed the reprocessing of 1B-CPR (radiometrically-corrected and geo-located reflectivity vs altitude), 2B-GEOPROF (cloud mask vs altitude), and 2B-CLDCLASS (cloud classification) products for the first five months of the mission.

To access the released data, use the DPC data ordering system interface found at:  
[http://cloudsat.cira.colostate.edu/data\\_dist/OrderData.php](http://cloudsat.cira.colostate.edu/data_dist/OrderData.php)

- **State of the Arctic Report Released Online**

The report is available at:  
<http://www.pmel.noaa.gov/pubs/PDF/rich2952/rich2952.pdf>

This report is a review of environmental conditions during the past five years relative to those in the latter part of the 20th century. The review was conducted by an international group of twenty scientists who developed a consensus on information content and reliability. The report updates some of the records from the Arctic Climate Impact Assessment.

- **US SOLAS Web Page Announced**

The Surface Ocean Lower Atmosphere Study (SOLAS) program is designed to enable researchers from different disciplines to interact and investigate the multitude of processes and interactions between the coupled ocean and atmosphere.

The findings obtained from SOLAS are used to improve knowledge at process scale that will lead to better quantification of fluxes of climate relevant compounds such as CO<sub>2</sub>, sulfur and nitrogen compounds, hydrocarbons and halocarbons, as well as dust, energy and momentum. This activity facilitates a fundamental understanding to assist the societal needs for climate change, environmental health, weather prediction, and national security.  
<http://www.us-solas.org>

## **Position Announcements**

### **6. University of Southern California – Climate Dynamics position**

The University of Southern California is extending its research and educational programs through a cross-cutting initiative that focuses on Energy, Societies and the Environment in the 21st century. The goal of this initiative is to create a research and educational environment that fosters collaborations between disciplines and promotes an interactive exchange of knowledge. An initial appointment at any rank will be made in the area of climate dynamics. Individuals with established expertise in climate dynamics and who use computer models to study Earth's climate behavior and the factors that influence that behavior are encouraged to apply. This individual will hold a primary appointment in the Department of Earth Sciences and a joint appointment in one other department in the College of Arts and Sciences. We anticipate additional appointments will be made in other closely aligned fields and expect this initial hire to take an active role in the programmatic development.

The University of Southern California supports advanced computational activities through the Center for High-Performance Computing and Communications (HPCC), which is among the nations top research computing centers.

Review of applications will begin **January 1, 2007** and continue until the position is filled. The appointment will begin August 16, 2007. Applications should include curriculum vitae, statement of research interests, statement of teaching experience and interests, and the names, addresses, and e-mail addresses of at least three references.

Applications should be submitted to:

Dr. Lowell D. Stott  
Climate Dynamics Search Committee Chair  
c/o Dana Coyle  
Department of Earth Sciences  
University of Southern California  
Los Angeles, CA, 90089-0740.

## **7. Christian-Albrechts-University in Kiel positions**

With the establishment of The Future Ocean Cluster of Excellence, a network of researchers at the Christian-Albrechts-University in Kiel (CAU) and the participating Leibniz Institutes will investigate past, present and future ocean change, explore marine resources, develop strategies for their sustainable use and study hazards arising from the seas. Research within the Cluster will be organized under two themes (A) Oceans in the Greenhouse World and (B) Marine Resources and Risks, with specific topics including ocean acidification, carbon sequestration, chemistry of the air-sea interface, and methane hydrate dynamics.

Within both themes, strong existing research groups will be strategically augmented by new Junior Research Groups (JRG's) and integrated curricula for training Ph.D. and Master's students will be developed in a new school of ocean sciences. Most of the funding requested will be used to establish and endow Junior Research Groups in emerging research fields currently not covered by, but complementary

to, those of the proponents. Junior Research Group leaders will be recruited from the international scientific community, with a tenure-track option for permanent professor positions (W2/W3) for highly successful researchers. Significant Cluster funding and the tenure-track perspective provided by the University and the participating Leibniz Institutes will permit the Cluster to attract, recruit and integrate truly outstanding young scientists. Through these means, the Cluster will strengthen and promote the University's profile as a leading European center for the study of the ocean system at large.

To facilitate the establishment of the JRGs, The Future Ocean Cluster of Excellence has announced it is inviting applications for 14 new professorships in a broad range of ocean research areas. For more information visit <http://www.uni-kiel.de/future-ocean/pub/job.shtml>

### **Meetings and Workshops**

#### **8. WCRP Seasonal Prediction Experiment and Workshop**

The full details of the experimental design and data distribution strategy can be obtained from the website at:

<http://copes.ipsl.jussieu.fr/Organization/Activities/TFSeasonalPred.html>.

A TFSP/Working Group on Seasonal Prediction (WGSIP)/Seasonal Prediction Model Intercomparison Project (SMIP) First Seasonal Prediction Workshop is also planned to take place **4-8 June 2007 in Barcelona, Spain**. The Workshop will emphasize surface temperature and precipitation prediction including applications.

If you have any questions regarding the details of the experiment please feel free to contact the chair of the TFSP (Ben Kirtman: [kirtman@cola.iges.org](mailto:kirtman@cola.iges.org)).

#### **9. Initiative for the Advancement of Climate Change Research Symposium**

**September 2007**

**Kilauea, Hawaii**

**Application Deadline: 30 April 2007**

The Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS; pronounced "discourse") targets recent Ph.D. graduates to encourage international, interdisciplinary understanding and collaborations across the natural and social sciences, humanities, mathematics, engineering, and other disciplines related to climate change and its impacts.

Recent PhD graduates from any discipline related to climate change and impacts are invited to participate in the DISCCRS initiative and apply to participate in the DISCCRS III symposium.

The symposium will provide a venue where recent PhD graduates can share insights across disciplines and forge interdisciplinary collegial relationships with their peers. In addition to presentations on participant research, the symposium will include sessions on NSF programs and funding opportunities, strategies for collaborating across disciplines in the context of developing an interdisciplinary research proposal, and techniques for communicating with non-specialist audiences.

Thirty-six recent PhD graduates will be competitively selected to participate in the week long event. Funding for airfare, lodging, and meals will be provided.

For further information, please contact: Susan Weiler  
E-mail: [weiler@whitman.edu](mailto:weiler@whitman.edu)

## **10. EGU General Assembly and Call for Abstracts Vienna, Austria, 15 - 20 April 2007**

The program of the 2007 EGU General Assembly is now finalized and posted on the web at:

<http://www.cosis.net/members/meetings/programme>

**15 January 2007 - Deadline for Receipt of Abstracts**

**28 February 2007 - Deadline for Letters of Invitation for obtaining visas & receiving travel funds**

[http://meetings.copernicus.org/egu2007/visa\\_requirements\\_and\\_letter\\_of\\_invitation.html](http://meetings.copernicus.org/egu2007/visa_requirements_and_letter_of_invitation.html)

Special Sessions Include:

### **CL7. Antarctica and the Global Climate System**

Antarctica and the Global Climate System (AGCS) is one of the five flagship Scientific Research Programmes of SCAR, devoted to the study of atmospheric and oceanic linkages between the climate of the Antarctica - Southern Ocean region and the rest of the Earth system. This session welcomes contributions on all aspects of this broad topic, with a particular focus on four major themes:

- 1) Decadal time scale variability in the Antarctic climate system, including ocean-atmosphere coupling and the role of ENSO in modulating Antarctic climate;
- 2) Global and regional climate signals in ice cores, and the establishment of relationships between ice core data and tropical, mid- and high-latitude climate variability;
- 3) Natural and anthropogenic forcing on the Antarctic climate system, including the estimation of climate change over Antarctica during the 21st century;
- 4) Export of Antarctic climate signals, with an emphasis on exploring how the ocean and atmosphere can convey signals of Antarctic climate change to northerly latitudes.

### **NP2.01, ENSO: dynamics, predictability and response to climate change (co-listed in CL & OS)**

ENSO is the most dominant source of interannual climate variability globally. Its understanding and seasonal and climate prediction is of vital importance for societies affected by ENSO impacts. This session invites contributions from scientists who try to understand the dynamics of ENSO, from those who study paleo ENSO variability, ENSO impacts on climate, society and ecosystems and from those who are involved in ENSO seasonal forecasting and climate change projections. Studies using multi-model approaches are especially welcomed.

### **OS8 Variability in the Southern Ocean**

**11. Workshop on the Interdisciplinary Science of Climate Changes: Basic Element  
12 March to 4 April 2007**

Venue: Facultad de Ciencias Exactas y Naturales, Buenos Aires, Argentina

Co-sponsored by: Geophysical Fluid Dynamics Laboratory/NOAA, NOAA Climate Program Office,  
and Facultad de Ciencias Exactas y Naturales de la Universidad de Buenos Aires

Programme:

A series of lectures are scheduled for each of the following topics:

Models for Climate Change - F. Giorgi

The Chemistry of Greenhouse Gases - H. Levy

Mechanisms for Climate Variability and Change - I. Orlanski

The Role of the Oceans in Climate - G. Philander

Radiation and Climate Change - V. Ramaswamy

Students will be encouraged to complete small projects and report on them at the end of the workshop.

Participation:

The workshop is mainly intended for young researchers and PhD students working in the areas of Physics, Chemistry, Atmospheric Physics and Dynamics, Climatology and Oceanography, from countries in Africa and South America that are members of the United Nations, UNESCO or IAEA. The principal objective of the ICTP is to help researchers from developing countries through a programme of training activities within a framework of international cooperation. Participants should have an adequate working knowledge of English. Due to budget limitations, every effort should be made by candidates to secure either total or partial support for their expenses. However, limited funds are available for some participants who are nationals of, and working in, developing countries, and who are not more than 45 years old. Participants are required to take part in all aspects of this activity for its entire duration. There is no registration fee.

The Application Form is available at: <http://agenda.ictp.it/smr.php?1877>

Applications should be sent via e-mail, fax or post, to arrive no later than 30 November 2006, to:

Interdisciplinary Science of Climate Changes - smr1877 (c/o P. Malchose) the Abdus Salam  
International Centre for Theoretical Physics Strada Costiera 11, 34014 Trieste, Italy Tel: +39 040  
2240374

Fax: +39 040 2240449

<http://www.ictp.it/>

**12. 10<sup>th</sup> International Meeting on Statistical Climatology  
20-24 August 2007 Beijing, China**

The International Meetings on Statistical Climatology (<http://cccma.seos.uvic.ca/imsc>) have been organized by a group of independent climatologists and statisticians since 1979. The purpose of the meetings is to bring together climatologists and statisticians to facilitate to the exchange idea, concepts, methods and problems.

10IMSC will be held from August 20 to 24 2007, Beijing, China. Financial support for the meeting is generously being provided by the Institute of Atmospheric Physics of the Chinese Academy of Sciences and the German GKSS Research Centre, Other co-sponsors will include the American Meteorological Society and several Chinese learned societies. The meeting will be jointly organized by the Institute of Atmospheric Physics, and the International Steering Committee of IMSC.

10IMSC welcomes contributions on all topics related to the analysis and understanding of the climate systems and advances in relevant statistical techniques. Sessions that are already planned include climate reconstruction, climate sensitivity, climate extremes, seasonal to decadal forecasting, forecast verification and ensemble forecasting, geostatistics, downscaling and climate scenarios, climate data homogenization, and storm and wave analysis. **Deadline for abstract submission is May 30 2007.**

### **13. 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:

#### **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

#### **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.