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December 2010 U.S. CLIVAR News-gram

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CALENDAR of UPCOMING EVENTS

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

December 2010

13-17: AGU Fall Meeting (San Francisco, CA)

January 2011

23-27: AMS Annual Meeting (Seattle, WA)

February 2011

13-18: AGU ASLO Meeting (San Juan, Puerto Rico)

Research Opportunities

1. NASA ROSES 2010 Appendix A.13: Atmospheric Composition: Southeast Asia Composition, Cloud, Climate Coupling Regional Study

Appendix A.13: Atmospheric Composition: Southeast Asia Composition, Cloud, Climate Coupling Regional Study (SEAC4RS) solicits proposals for participation in two airborne campaigns to be conducted in 2012 to investigate atmospheric processes related to deep convection, chemistry/photochemistry, aerosols and clouds in mid-latitude and tropical environments. Multiple comprehensively instrumented aircraft are required to accomplish this research. NASA and the National Science Foundation plan to collaborate to conduct two synergistic campaigns designed to sample the atmosphere in two very different convective environments: summer mid-latitude continental North America and fall tropical Southeast Asia. Through this call, the Upper Atmosphere Research Program, the Radiation Sciences Program, the Tropospheric Chemistry Program, and the Atmospheric Composition Modeling and Analysis Program seek campaign leadership, instrumentation teams, satellite teams and campaign support/data analysis teams for participation in these studies.

Amendment 21 releases the final version of the text of Appendix A.13, which replaces the draft text in its entirety, including the name. Notices of Intent to propose are not requested and **Proposals are due February 1, 2011.**

On or about November 1, 2010, this Amendment to the NASA Research Announcement "Research Opportunities in Space and Earth Sciences (ROSES) 2010" (NNH10ZDA001N) will be posted on the NASA research opportunity homepage at <http://nspires.nasaprs.com/> (select Solicitations then Open Solicitations then NNH10ZDA001N). You can now track amendments, clarifications and corrections to ROSES and subscribe to an RSS feed at:

<http://nasascience.nasa.gov/researchers/sara/grant-solicitations/roses-2010>

Questions concerning this program may be addressed to Hal Maring, Earth Science Division, Science Mission Directorate, NASA Headquarters, Washington, DC 20546-0001; Telephone: (202) 358-1679; E-mail: Hal.Maring@nasa.gov.

2. SCOR Visiting Scholars

SCOR began a program in 2009 to enlist the services of ocean scientists from the SCOR community, from both developed countries and developing countries, both recently retired and active, to teach short courses and to provide more extended on-site education and mentorship at developing country institutions. Some countries and/or individual institutions have requirements for their scientists to retire at a given age, sometimes as early as 60 years of age. Many retired ocean scientists are still interested in teaching and mentoring, and are supported by pensions after their retirement, so do not need salary support. Some active scientists can also use some of their already-supported work time to serve in a developing country. Hosting visiting scientists, whether retired or active, can have many benefits to host institutions, such as inspiring, motivating, and informing students and faculty, and leading to future collaborations between the visiting scientist and the host institution. The idea of this program is to regularly send ocean scientists interested in short-term visits to developing countries. The program is a partnership, with the host institution providing local accommodation and SCOR finding resources to pay for airfares and other local expenses, as necessary. The participating scientists donate their time. The participating scientists

might be onsite for as little as two weeks to as long as visa requirements would allow. The Partnership for Observation of the Global Oceans (POGO) implemented a program focused on ocean observations and modeling (see http://www.oceanpartners.org/index.php?option=com_content&view=article&id=310&Itemid=43). The SCOR program is complementary with the POGO program. Applicants may already have selected a host institution or SCOR will help identify hosts. Previous scholar placements have worked both ways.

See http://www.scor-int.org/SCOR_Visiting_Scholars.pdf for further information

Position Announcements

3. AGU Congressional Science Fellowship Application

AGU is now accepting applications for its 2011–2012 Congressional Science Fellowship. The program is seeking applicants who are articulate, flexible, and able to work well with people from diverse backgrounds. A broad background in science is a bonus as Fellows often advise on a wide range of scientific topics. All AGU members who are citizens or permanent residents of the United States are invited to apply. While the Fellowship is aimed at early to mid-career Earth and space scientists with PhDs, the program places no restriction on age, educational or career level, or on specific scientific backgrounds. Experience in public policy is not required, but such experience and/or an interest in using science to solve public problems is desirable. The Fellowship carries a stipend of \$60,000 as well as health insurance, moving expenses, and a travel allowance. **The deadline for applications is 1 February 2011.**

For further details and application instructions, please visit the http://www.agu.org/sci_pol/cong_fellowship AGU website or contact Elizabeth Landau at elandau@agu.org or at +1.202.777.7535. To apply, please click https://www.agu.org/inside/fellows/congressional_application.php

4. NASA Earth and Space Science Fellowship (NESSF) Program

NASA announces a call for graduate fellowship proposals to the NASA Earth and Space Science Fellowship (NESSF) program for the 2011-2012 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. 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, 2011, and the deadline for RENEWAL applications is March 15, 2011.

The NESSF call for proposals and submission instructions are located at the NESSF 11 solicitation index page at <http://nspires.nasaprs.com/> - click on "Solicitations" then click on "Open Solicitations" then select the "NESSF 11" announcement. Also refer to iProposal Submission Instructions and Program Specific Questions listed under Other Documents on the NESSF 11 solicitation index page.

All proposals must be submitted in electronic format only through the NASA NSPIRES system. The advisor has an active role in the submission of the fellowship proposal. To use the NSPIRES system, the advisor, the student, and the university must all register. Extended instructions on how to submit an electronic proposal package are posted on the NESSF 11 solicitation index page listed above. You can register in NSPIRES at <http://nspires.nasaprs.com/>.

For further information contact Ming-Ying Wei, Program Administrator for NESSF Earth Science Research, Telephone: (202) 358-0771, E-mail: mwei@nasa.gov or Dolores Holland, Program Administrator for NESSF Heliophysics Research, Planetary Science Research, and Astrophysics Research, Telephone: (202) 358-0734, E-mail: hq-nessf-space@nasa.gov

5. George Mason University: Professor and Assistant Professor Positions

Professor: The Department of Atmospheric, Oceanic and Earth Sciences (AOES), College of Science, George Mason University (GMU), announces a faculty position at the level of Professor to begin in the autumn of 2011.

The area of interest is the role of the land surface and biosphere on climate variability and predictability, using state-of-the-art numerical models of the coupled atmosphere-biosphere and ocean systems. This position is part of the long-term plan of the College of Science to build a center of excellence in climate modeling, prediction and predictability. The appointment will be made jointly with the Center for Ocean-Land-Atmosphere Studies (COLA).

AOES is a focal point for research and graduate education in climate science at GMU. Research and teaching in the Climate Dynamics Ph.D. Program within the department are aimed towards understanding the processes that govern a wide range of climate-related phenomena, with an emphasis on climate predictability and variability of seasonal, inter-annual, and decadal time scales, and climate variability in a changing climate. Information about the department may be found at <http://aoes.gmu.edu>.

The successful applicant will carry out research in a multi-disciplinary team research environment, direct original research by doctoral students, and provide graduate course instruction. A Ph.D. in meteorology, or related fields, is required. Research expertise, demonstrated by a suitable publication record, on intra-seasonal to inter-annual, or longer period, climate modeling and predictability is desired.

For full consideration, please apply online at <http://jobs.gmu.edu> for position number F9400z. Candidates should submit a cover letter of application, curriculum vitae, list of publications, and contact information (with e-mail addresses) of three references.

Assistant Professor: The Department of Atmospheric, Oceanic and Earth Sciences (AOES), College of Science, George Mason University (GMU), announces a tenure-track faculty position at the level of Assistant Professor to begin in the autumn of 2011.

The area of interest is atmospheric modeling and the effects of cloud-system and related processes on the variability and predictability of the climate, within the context of state-of-the-art coupled general circulation models. This position is part of the long-term plan of the College of Science to build a center of excellence in climate modeling, prediction and predictability. The appointment will be made jointly with the Center for Ocean-Land-Atmosphere Studies (COLA).

AOES is a focal point for research and graduate education in climate science at GMU. Research and teaching in the Climate Dynamics Ph.D. Program within the department are aimed towards understanding the processes that govern a wide range of climate-related phenomena, with an emphasis on climate predictability and variability of seasonal, inter-annual, and decadal time scales, and climate variability in a changing climate. Information about the department may be found at <http://aoes.gmu.edu/>.

The successful applicant will carry out research in a multi-disciplinary team research environment, direct original research by doctoral students, and provide graduate course instruction. A Ph.D. in meteorology, or related fields, is required. Research expertise, demonstrated by a suitable publication record, on intra-seasonal to inter-annual, or longer period, climate modeling and predictability is desired.

For full consideration, please apply online at <http://jobs.gmu.edu> for position number F9399z. Candidates should submit a cover letter of application, curriculum vitae, list of publications, and contact information (with e-mail addresses) of three references.

6. Woods Hole Oceanographic Institution: Climate Research Staff Positions

The Woods Hole Oceanographic Institution (WHOI) announces the second year of its joint initiative in climate research amongst the Departments of Physical Oceanography, Marine Chemistry and Geochemistry, and Geology and Geophysics, and invites applications for tenure-track and tenured scientific staff positions. The goal of the multi-year initiative is to grow a strong interdisciplinary climate research program at WHOI, and several hires were made in the first cycle. We seek scientists who will complement or broaden existing institutional research in paleoceanography, paleoclimatology, glaciology, ocean circulation and processes, the ocean's role in climate and the global water cycle, chemical oceanography and marine biogeochemistry. A successful candidate will hold an appointment in the department most appropriate to his/her research, and will be expected to interact with members of other departments.

Possible research areas include, but are not limited to, observation and analysis of contemporary and paleo- climate variability and trends from Ocean-Atmosphere-Cryosphere-Land datasets; climate observing systems utilization and/or development; biogeochemical cycles and climate; development and/or application of geochemical proxies within geological archives; coupled ocean/atmosphere processes in climate; climate dynamics; diagnosis of model outputs from climate simulations of past, present, or future climate and comparison to existing data sets. Funding opportunities exist with the WHOI Ocean and Climate Change Institute (OCCI) to initiate and support interdisciplinary climate research projects. There are opportunities for participation in the MIT/WHOI Joint Program, and for broader climate research collaborations within WHOI (the Biology and Applied Ocean Physics and Engineering Departments and the Marine Policy Center) and with the other two institutions of the Woods Hole Consortium, the Marine Biology Laboratory, and the Woods Hole Research Center.

Applicants should have a doctoral degree, postdoctoral experience and a publication record in a climate research area such as physical, paleo- or chemical oceanography, atmospheric or climate dynamics, or related fields. Women and minority applicants are particularly encouraged, and WHOI is sensitive to the issues of dual career scientists and will work with applicants to address them. A successful candidate's level of appointment will depend upon background and experience. For information about the three departments, climate research at WHOI, the MIT/WHOI Joint Program and the Woods Hole Consortium please visit the following websites:

WHOI Geology and Geophysics Department <http://www.whoi.edu/GG/>

WHOI Physical Oceanography Department <http://www.whoi.edu/PO/>

WHOI Marine Chemistry and Geochemistry Department <http://www.whoi.edu/MCG/>

WHOI Ocean and Climate Change Institute <http://www.whoi.edu/OCCI/>

The MIT/WHOI Joint Program <http://web.mit.edu/mit-who/ww/>

The Woods Hole Consortium <http://www.woodsholeconsortium.org/>

Qualified candidates should submit their curriculum vitae, including a list of publications, a statement of research interests, and names and addresses of four references. Review of applications will begin in January 2011. **To apply, go to <http://jobs.whoi.edu/>; click on “Scientific and Postdoctoral Investigator Positions” and click on the title for this position.**

7. Woods Hole Oceanographic Institution: Physical Oceanography Staff Positions

The Department of Physical Oceanography of the Woods Hole Oceanographic Institution (WHOI) invites applications for tenure track or tenured scientific staff positions. Applications in all areas of physical oceanography and related fields are welcome.

The department scientists utilize observations, modeling, theory, and laboratory experiments to elucidate the ocean's circulation dynamics and physical processes, including interdisciplinary

applications beyond physical oceanography. Infrastructure and facilities – with world class technical support personnel – are available that enable using a broad mix of traditional and innovative instruments and observational techniques to make high quality critical measurements on all scales up to global, and all ocean domains including high latitude and open ocean regions; we particularly encourage candidates interested in continuing the department’s tradition of these seagoing activities. There is a vigorous synergy between field programs and the modeling, theorizing and laboratory experimental work in the department. Development of new instrumentation and observational techniques, new approaches to modeling, identification of new phenomenon for future programs, and general expansion into new research areas, are welcomed and encouraged. There are opportunities for interdisciplinary collaboration with other WHOI science and engineering departments, participation in the MIT/WHOI Joint Program, and engagement with other research organizations in the Woods Hole area. Funding opportunities exist with the WHOI Ocean Institutes to initiate and support interdisciplinary research projects.

Applicants should have a doctoral degree, postdoctoral experience, and a publication record in physical oceanography or a related field. Women and minority applicants are particularly encouraged, and WHOI is sensitive to the issues of dual career scientists and will work with applicants to address them. A successful candidate’s level of appointment will depend upon background and experience. For information on the Department of Physical Oceanography, other WHOI departments, centers and facilities, the MIT/WHOI Joint Program, the WHOI Ocean Institutes and the Woods Hole Consortium of research organizations, please visit the following websites:

WHOI Physical Oceanography Department <http://www.whoiedu/PO/>
WHOI Research elements <http://www.whoiedu/Research/>
The MIT/WHOI Joint Program <http://web.mit.edu/mit-whoiedu/www/>
WHOI Ocean Institutes <http://www.whoiedu/Institutes/>
The Woods Hole Consortium <http://www.woodsholeconsortium.org/>

Qualified candidates should submit their curriculum vitae, including a list of publications, a statement of research interests, and names and addresses of four references. Review of applications will begin in January 2011. **To apply, go to <http://jobs.whoiedu/>; click on “Scientific and Postdoctoral Investigator Positions” and click on the title for this position.**

8. WHOI Scientific Staff Positions in Coastal Oceanography

The Woods Hole Oceanographic Institution (WHOI) announces a hiring initiative to enhance basic and applied research in coastal oceanography. WHOI seeks to hire scientists with various skills including at-sea observations, numerical modeling, and instrument development. Research areas of interest include physical, chemical, biological, and geological processes in estuarine, nearshore, and continental shelf and slope environments, including development and use of novel observational technology and observing systems in these settings. Specific topics of application may include, but are not limited to,

- coastal processes in high-latitude environments,
- bio-physical interactions in coastal ecosystems,
- biogeochemical transformations from watersheds to the ocean, and
- coastal morphodynamics.

WHOI offers a rich environment for interdisciplinary coastal research. The Applied Ocean Physics and Engineering and Physical Oceanography departments are coordinating this hiring initiative, but appropriate candidates may be considered by or seek interactions with other WHOI

departments (<http://www.whoi.edu/departments/>): Biology, Geology and Geophysics, and Marine Chemistry and Geochemistry.

Applicants should have a doctoral degree, postdoctoral experience, and a publication record in coastal oceanography. The level of appointment of a successful candidate will depend on background and experience. Women and minority applicants are particularly encouraged to apply. A curriculum vitae including a list of publications, a statement of research interests (three page maximum), and names and addresses of four references must be submitted. While members of the scientific staff are expected to provide for their salaries from grants and contracts, WHOI provides salary support when funding is not available. Review of applications will begin in January 2011.

9. Staff Scientist at the International CLIVAR Project Office

Location: National Oceanography Centre, Southampton

Description: A scientist is required to join an international team that provides support for the international activities of the World Climate Research Programme's study on Climate Variability and predictability (CLIVAR). The post involves work with teams of leading international scientists, involved in atmospheric, oceanic and climate modelling and climate change detection. The teams are working towards the development and implementation of CLIVAR's programme of research on phenomena ranging from monsoons and El-Niños to human impacts on climate with focus on the oceans' role in decadal-scale climate variability.

The successful applicant should have a Masters degree or PhD in Meteorology, Oceanography or Climate Science. A broad awareness of how the climate system works and specialist knowledge in a relevant area of the physical sciences is important as is similar awareness of atmosphere, ocean or coupled modelling. You should have excellent communication skills, spoken and written, and have experience of using computer packages (e.g. Word, Excel, Adobe Illustrator); web site development, implementation and upkeep. Experience of data management is an advantage. This position will involve short periods of overseas travel.

General enquiries only (please do not send CV's) concerning the position should be directed Robert Molinari, email: Robert.molinari@noc.soton.ac.uk

This post will be offered as a fixed term appointment until 31st March 2013 on NERC terms and conditions and the salary is in the range £26,180 to £29,410 per annum.

NERC provide benefits that include a RCUK pension scheme and generous leave scheme offering up to 30 days leave and a further 10½ Public/privilege days. Opportunities for further training and development are supported.

For further information on this position and to download an application pack, please click on the links below or alternatively contact Fiona Stuart, Human Resources, NOC, European Way, Southampton SO14 3ZH (Telephone + 44 023 8059 6291 or e-mail: askhr@noc.soton.ac.uk) for an application pack.

The closing date for completed application forms is **8 December 2010 at 17.00 hours**. Please quote reference number NOC 156/10 on all correspondence.

<http://www.noc.soton.ac.uk/vacancies/>

10. Oregon Statue University College of Oceanic and Atmospheric Sciences Research Associate (Postdoctoral)

The College of Oceanic and Atmospheric Sciences (COAS) at Oregon State University announces the availability of a full-time position for a Research Associate (Postdoctoral) to investigate the nearly ubiquitous observed atmospheric response to sea surface temperature (SST) gradients. To date, most research has focused on the surface wind response to SST, but recent work indicates that the atmospheric response to SST extends into the troposphere above the marine boundary layer. In particular, a deep atmospheric response has been found anchored to the

warm western boundary currents of the Gulf Stream and Kuroshio Current. More subtle, but still well-defined, responses are found over the California Current System. We seek a research colleague who will join a team of researchers using mesoscale atmospheric models to study the response of the three-dimensional tropospheric circulation to SST features of different spatial scales. 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: Full-time (1.0 FTE), 12-month fixed-term appointment. Annual salary range is \$47,000-\$49,000. Reappointment is at the discretion of the principal investigators. Responsibilities and Duties: The successful candidate will use the Weather and Research Forecasting (WRF) numerical model to simulate three-dimensional circulations in response to observed SST patterns and large-scale wind regimes found over SST anomalies in ocean currents (e.g. the Gulf Stream, the Kuroshio, the Agulhas, and the California Current). Observations and the WRF simulations will be used to quantify the temporal and spatial scale dependence of the atmosphere response to SST gradients. The candidate will work with team members producing cutting-edge high-resolution SST products. Activities will include the following: Atmospheric simulation of the atmospheric circulation response to real and idealized SST cases using the WRF model, and physical diagnosis of the results. Use of WRF will require adapting, debugging, compiling, and running Fortran 90 codes in a linux environment. Diagnosing results will require use of a higher-level computing language such as NCL or Matlab. Preparation of new high-resolution SST data sets using satellite and in situ data, where available, as boundary conditions for WRF. The candidate will format these new data sets so they can be ingested by the WRF model. Verification of simulated surface and elevated wind and cloud response to SST with satellite remote sensing data sets, e.g. QuikSCAT, AMSU, and CERES. Spatial structures of case studies will be verified. The candidate will employ statistical and spectral methods to the model and observational data, and synthesize results to emphasize physical reasons for the response. Presentation of results at national and international scientific meetings. Collaboration with scientists within COAS and at other institutions. Preparation and publication of articles in scientific journals. Qualifications: PhD. in Atmospheric Sciences, Oceanography or closely related field. Experience with running WRF and/or equivalent NWP model in a parallel computing environment, including familiarity with Fortran and a Unix/Linux environment. Experience with scientific programming using high-level programming languages such as MATLAB, NCL, IDL, or Python. Ability to write and communicate scientific results with peers. Prefer: Experience with spatial and temporal statistical techniques for characterizing geophysical flows. A demonstrable commitment to promoting and enhancing diversity. To Apply: To review posting and to apply electronically, go to <http://oregonstate.edu/jobs>. See posting number 0006143. To review position announcement go to <http://www.coas.oregonstate.edu/>. Questions about the position may be directed to Simon de Szoeke, phone (541-737-8391), email sdeszoek@coas.oregonstate.edu; or Dudley Chelton, phone (541-737-4017), email chelton@coas.oregonstate.edu; fax 541-737-2064. Deadlines: For full consideration, applications must be received by November 28, 2010 Position Closing date: **December 31, 2010**.

11. Texas A&M University-Corpus Christi (TAMUCC): tenure-track Assistant Professor of Physics

Position to begin in Fall 2011.

The applicant's research focus should be in atmospheric physics, remote sensing applications, climate change, or a related area. Requirements include a PhD at the time of appointment in Physics, Atmospheric Physics or a related field. Relevant post-doctoral experience is preferred. Responsibilities will include teaching undergraduate physics and/or

astronomy courses, as well as graduate courses in the candidate's area of specialization for the PhD program in Coastal and Marine System Science.

The position will remain open until filled but preference will be given to applicants submitting all requested documentation by November 29, 2010.

<http://www.nature.com/naturejobs/science/jobs/166569-Assistant-Profess>

12. National Academy of Sciences: Board on Atmospheric Sciences position

Seeking a Post Doc level person to work with the Board on Atmospheric Sciences and Climate and the Polar Research Board, assisting in all aspects of the study process and gaining invaluable experience in Washington. Two "information sessions" will be held about this position while at AGU. <http://tbe.taleo.net/NA4/ats/careers/requisition.jsp?org=NAS&cws=1&rid=6988>

Meetings and Workshops

13. NCAR ASP Summer Colloquium on Statistical Assessment of Extreme Weather Phenomena under Climate Change

6-24 June 2011

This three-week colloquium will be held at the National Center of Atmospheric Research in Boulder, Colorado, USA

Objective

Training in use of extreme value analysis to assess how frequency, duration, and intensity of extreme weather events could shift as part of global climate change

Topics

Analyzing how extreme events and their impacts evolve over time Extracting extreme events from coarse resolution models that cannot explicitly resolve extremes using techniques such as statistical downscaling Use of extreme value distributions (justified through statistical theory of extreme values) Special characteristics of meteorological processes -- Estimating return levels under non-stationarity -- Model resolution vs. scales where extreme events occur -- Weather spells such as heat waves or droughts -- Temporal and spatial clustering of extremes

Activities

Two tutorials on extreme value analysis, one on basic statistical theory and another on its implementation using open source statistical language R Invited lecturers will discuss extreme value analysis from differing perspectives of atmospheric science, statistics, risk analysis, hydrology and other areas Students will work in groups on well-defined, but open-ended research projects

CALL FOR STUDENT PARTICIPANTS

Designed for graduate students who have completed at least one year of graduate-level study in atmospheric science, statistics, risk analysis, hydrology, or related field Ideally students should have some training in statistics, but no prior experience using extreme value analysis is required ASP will fund travel and local expenses for about 25 student participants Deadline for application is January 31, 2011 with online application system being available starting December 1, 2010

Researcher Colloquium (June 13-17)

A new component of the ASP Colloquium designed to explore science frontiers US CLIVAR will help organize to provide focus for research agenda on extremes Separate application process (deadline of March 28, 2011) to fund travel and local expenses for 20 to 25 early career to senior researchers Students will attend both the Researcher and Student portions of the Colloquium

Student Applications may be submitted between Dec 1, 2010 and Jan 31, 2011

http://www.asp.ucar.edu/colloquium/summer_colloquiua.php

14. 43rd International Liege Colloquium on Ocean Dynamics Tracers of physical and biogeochemical processes, past changes and ongoing anthropogenic impacts
2 - 6 May 2011

<http://modb.oce.ulg.ac.be/colloquium/>

This Colloquium will investigate new developments and insights related to tracers and proxies (from temperature and salinity to gases and isotopes) with a particular attention on the use of TEI as tracers. Abstracts for the 2011 Conference should be submitted before the **16th of January** 2011. The list of members of the scientific committee and the necessary details (submission, registration, deadlines, venue,...) are available on the website.

15. XXV IUGG General Assembly
Earth on the Edge: Science for a Sustainable Planet

28 June - 7 July 2011 Melbourne Convention & Exhibition Centre
Melbourne, Australia

Symposium: J-M11: From Ice-house to Green-house: Studies of Natural and Human-Induced Climate Change

Abstracts due: January 17, 2011

Abstract submission: <http://www.iugg2011.com/program-abstracts.asp>

Scope: Earth system history makes clear that the climate can span a wide range of states, from widespread glaciation to global warmth with very little ice at all, essentially from what might be called to being dominated by the world's ice to dominated by the atmosphere's greenhouse gas concentrations. This symposium, which will have a number of components, is intended to span the spectrum, inviting papers on periods from when the climate was very cold to when it has been hot and including the warming Earth that human activities are now inducing. Papers relating to model development and verification, including determining climate sensitivity, should be submitted to J-M08. Papers relating to the nature of cold to hot climates, transitions from one state to the other, and particularly the transition from the Holocene to the present and into the future should be submitted to this Symposium. Studies and analyses based on observational records (e.g., ice core records) and modelling are both invited, and especially studies that draw from both. The causes of both stability and change are of interest, including the ranges of natural variability and the coupling of changes in climate to the weather, oscillations, and extremes that result. The components of the Symposium are envisioned to be:

- Pre-Pleistocene warm and cold climates—Insights into the long-term functioning of the climate system
- Glacial cycling during the Pleistocene—A period of large climate swings and feedbacks;
- The Holocene: Its stability and variations—and their causes; and
- The Industrial Era and beyond, covering the response of the climate system to human activities (including particularly reports on model simulations being done for IPCC's AR5 report)

ANNOUNCEMENTS:

- **Open Recruitment for members of NASA's Science Mission Directorate's Advisory Subcommittees**
NASA's Science Mission Directorate solicits nominations of individuals who would serve on one of the following advisory subcommittees of the NASA Advisory Council (NAC):

NAC Astrophysics Subcommittee
NAC Earth Science Subcommittee
NAC Heliophysics Subcommittee
NAC Planetary Protection Subcommittee
NAC Planetary Science Subcommittee

Either self nominations or nominations of others are acceptable. The membership term will be for two to three years. Members will be required to attend meetings two to four times a year, either in person or via telecon/WebEx. Terms of reference and meeting minutes of the NAC Science Committee and subcommittees may be found on: <http://science.nasa.gov/science-committee/>.

Nominators should submit a vita and a one-page statement on their reasons for supporting a specific nominee (or themselves in the case of self-nominated individuals) to serve on the subcommittee. The following qualifications/experience are highly desirable in nominees, and should be clearly presented in their vita or accompanying one page statement:

10 yrs. post-Ph.D. research experience with leading publications in the scientific field of the subcommittee they are nominated for, or comparable experience, Acknowledged community leadership in scientific/education and public outreach field as evidenced by award of prizes, invitation to national and international meetings as speaker, organizer of scientific meetings/workshops, or comparable experience, Participation in NASA programs either as member of NASA mission science team, Research & Analysis program, membership on an advisory/working group or a review panel, or comparable experience, Good knowledge of NASA programs in the scientific field of the subcommittee they are applying for, including the latest NASA Science Plan (available as a link from <http://science.nasa.gov/about-us/science-strategy/>), or comparable experience, and, Knowledge of the latest Decadal Survey conducted by NRC for the scientific field of the subcommittee.

Nominees from any category of organizations or institutions within the U.S. are welcome, including, but are not limited to, educational, industrial, and not-for-profit organizations, Federally Funded Research and Development Centers (FFRDCs), University Affiliated Research Centers (UARCs), NASA Centers, the Jet Propulsion Laboratory (JPL), and other Government agencies.

Successful nominees who are not already government employees will become Special Government Employees (SGEs). All successful nominees will be required to submit a confidential financial disclosure form, and undergo a conflict of interest review by the NASA Office of the General Counsel, before their appointment is finalized. **The due date for nominations is December 30, 2010.**

- **Fall 2010 issue of the Ocean Carbon& Biogeochemistry (OCB) newsletter is now available** at http://www.us-ocb.org/publications/OCB_NEWS_FALL10.pdf
- **ICSU Grand Challenges document has been published by Science** http://news.technobahn.com/Scientific_Grand_Challenges_Identified_to_Address_Global_Sustainability_201011112000019.html
- **New VAMOS Working Group website on Extremes** <http://gmao.gsfc.nasa.gov/research/subseasonal/atlas/Extremes.html>

This is an Atlas of Extremes for the Americas, and reflects the wonderful work that group has been doing. The authors inform that this work is in progress, a beta version. If you have comments or suggestions please send them to: Siegfried Schubert <siegfried.d.schubert@nasa.gov> Iracema Cavalcanti <iracema@cptec.inpe.br>

- **Global Historical Climatology Network-Monthly (GHCNM) v3 beta dataset announcement**

The U.S. National Climatic Data Center in Asheville, NC has released Version 3.0 beta of the Global Historical Climatology Network-Monthly (GHCNM). This dataset currently consists of monthly mean temperature data for 7280 stations and includes both raw and adjusted data. The dataset is hosted at the following web sites:

<http://www.ncdc.noaa.gov/ghcnm/> and <ftp://ftp.ncdc.noaa.gov/pub/data/ghcn/v3/>

Users are encouraged to provide feedback for this beta version at:

NCDC.GHCNM@noaa.gov

- **CLIVAR Atlantic Panel Report available**

<http://eprints.soton.ac.uk/167653/>