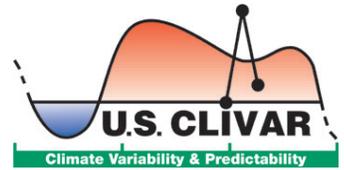# February 2013 U.S. CLIVAR Newsgram

Please forward to interested colleagues. To manage your subscription to this newsgram, visit: www.usclivar.org/contact/get-involved. To include an announcement in our next issue, email Jennifer Mays: jmays@usclivar.org. Follow us on Twitter: twitter.com/USCLIVAR.

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Calendar of Upcoming Events
also see: http://usclivar.org/calendar

WCRP Special Workshop on Climatic Effects of Ozone Depletion in the Southern Hemisphere: Assessing the Evidence and Identifying Gaps in the Current Knowledge
February 25 -March 1, 2013
Buenos Aires, Argentina

GODAE OceanView & WGNE Joint Workshop on Short- to Medium-range Coupled Prediction for the Atmosphere-Wave-Sea-Ice-Ocean
March 19-22, 2013
Washington, DC

AMS Washington Forum "The Value and Sustainability of the Weather, Water and Climate Enterprise"
April 2-4, 2013
Washington, DC

NOAA 2013 Satellite Conference for Direct Readout, GOES/POES, AND GOES-R/JPSS Users
April 8-12, 2013
NOAA/NCWCP, College Park, MD

4th WGNE Workshop on Systematic Errors in Weather and Climate Models
April 15-19, 2013
Exeter, UK

WCRP GEWEX International Satellite Cloud Climatology Project at 30
April 22-25, 2013
New York, NY

SPARC DynVar & SNAP Workshop
April 22-26, 2013
Reading, UK

11th Annual CPASW Climate Prediction Applications Science Workshop
April 23-25, 2013
Logan, UT

Water Cycle Missions for the Next Decade Workshop
April 29-30, 2013
BWI Airport Embassy Suites, Baltimore, MD

AMS 12th Conference on Polar Meteorology and Oceanography
April 29 - May 2, 2013
Seattle, WA

Ocean Gateways Past and Present: Significance for Ocean Circulation and Terrestrial Climate
May 5-7, 2013
Jerusalem, Israel

20th Session of the CLIVAR Scientific Steering Group (by invitation)
May 6-8, 2013
Kiel, Germany

WCRP Seasonal to Decadal Prediction Workshop
May 13-16, 2013
Toulouse, France

2013 AGU Meeting of the Americas
May 14-17, 2013
Cancun, Mexico

34th Session of the WCRP Joint Scientific Committee (by invitation)
May 27-31, 2013
Brasilia, Brazil

Upcoming U.S. CLIVAR Events

U.S. CLIVAR International Workshop - Understanding the Response of Greenland's Marine Terminating Glaciers to Oceanic and Atmospheric Forcing
Beverly, MA
June 4-7, 2013
Registration/Abstract Submission **now open.**
Abstract submission deadline: **March 1, 2013.**

U.S. CLIVAR Hurricane Workshop
Geophysical Fluid Dynamics Lab, Princeton, NJ
June 5-7, 2013
Registration/Abstract Submission opens in **March**.

U.S. CLIVAR Summit (by invitation)
Lowes, Annapolis, MD
July 8-11, 2013

[U.S. AMOC/U.K. RAPID International Science Meeting 'AMOC Variability: Dynamics and Impacts'](#)
Hilton Baltimore, Baltimore, MD
July 16-19, 2013
Registration/Abstract Submission **now open**.
Abstract Submission deadline: **March 25, 2013**.

[U.S. CLIVAR Extremes Workshop - Analyses, Dynamics, and Modeling of Large Scale Meteorological Patterns Associated with Extreme Temperature and Precipitation Events](#)
Lawrence Berkeley National Lab, Berkeley, CA
August 20-22, 2013
Registration/Abstract Submission opens in **March**.

Events with Upcoming Deadlines

[9th Annual Carbon Dioxide Conference](#)
June 3-7, 2013
Beijing, China
Abstract Submission Deadline: **February 28, 2013**

[WCRP/CLIVAR 2nd International Symposium on Boundary Current Dynamics](#)
July 8-9, 2013
Qingdao, China
Abstract Submission Deadline: **February 28, 2013**

[DISCCRS VIII Interdisciplinary Climate Change Research Symposium](#)
October 12-19, 2013
La Foret Conference and Retreat Center (Colorado)
Application Deadline: **February 28, 2013**

[2013 Community Earth System Modeling Tutorial](#)
August 12-16, 2013
NCAR, Boulder, CO
Applications Deadline: **March 1, 2013**

[4th International Summit on Hurricanes and Climate Change](#)
June 13-18, 2013
Kos, Greece
Early Registration and Abstract Submission Deadline: **March 15, 2013**

[2014 Ocean Sciences Meeting](#)
Honolulu, Hawaii
February 23 - 28, 2014
Session Proposal Deadline: **March 15, 2013**

[AMS 19th Conference on Atmospheric and Oceanic Fluid Dynamics](#)
June 17-21, 2013
Newport, RI
Abstract Submission Deadline: **March 15, 2013**

Announcements

1. Subcommittee on Ocean Science and Technology Releases 'Science for an Ocean Nation: Update of the Ocean Research Priorities Plan'

The National Science and Technology Council has issued an update to the January 2007 ocean research priority plan. The report highlights ocean acidification and changing conditions in the Arctic. Themes include "Improving Ecosystem Health", "Increasing Resiliance to Natural Hazards and Environmental Disasters", and "The Ocean's Role in Climate" [Download the Plan here](#).

2. Climate Prediction Center Unveils Interactive Tool

The NOAA National Weather Service Climate Prediction Center (CPC) partnered with the Pendleton, Oregon Weather Forecast Office to implement a [new interactive web tool](#). The tool shows the full spectrum of CPC's extended range forecasts covering the next 8-14 days for the continental U.S. and Alaska. A simple "mouse over" interface displays probabilities for three forecast categories associated with each point on the map.

3. CLIMDEX Project Datasets Available

The CLIMDEX Project (www.climdex.org) aims to produce a suite of in situ and gridded land-based global datasets of indices representing the more extreme aspects of climate. Indices are derived from daily temperature and precipitation data using the definitions recommended by the CCl/CLIVAR/JCOMM Expert Team on Climate Change Detection and Indices (ETCCDI). The project also aims to develop software tools to allow users to access the resulting datasets via a Web interface.

The main purpose of this website is to:
  • Provide easy access to climate extremes data for research purposes
  • Assess spatial and temporal variability of climatic extremes
  • Assess uncertainties in the representation in extremes
  • Evaluate climate model output (with knowledge of the uncertainties in the observational datasets)
  • Provide traceability for data and methods used

This site provides access to datasets, including detailed information on their construction, (revision-controlled) software, trend maps, time series, and uncertainty estimates. Eventually it is hoped that the web portal will also provide similar access to the indices calculated from CMIP3 and CMIP5 model data.

4. Ocean Research Advisory Panel Solicitation

The Ocean Research Advisory Panel (ORAP) is soliciting nominations for eight new members with expertise and experience in the field of ocean science and/or ocean resource management. ORAP is a statutorily mandated federal advisory committee that provides senior advice to the National Ocean Council, including the selection of projects and allocation of funds for the National Ocean Partnership Program (NOPP). Members are appointed annually and may serve up to four years. Please see the Federal Register announcement for more information and nomination instructions. Nominations will close on **March 15, 2013** at 5:00 p.m.

5. 2013 UNOLS Chief Scientist Training Cruise Opportunity

The 2013 UNOLS Chief Scientist Training Cruise will instruct early career marine scientists, including PhD students, on how to effectively plan for, acquire, utilize and report on time at sea for multi-disciplinary research and education. The full program will take place from October 13-22, 2013, beginning and ending at the University of Rhode Island Marine Operation Facilities in Narragansett, Rhode Island, and will include a seven-day cruise on the R/V Endeavor to at sea locations in the Middle Atlantic Bight. Small stipends are provided for participant travel costs (from within the United States only), research supplies and shipping. The deadline to apply is **March 15, 2013**. For more information, click here.

6. Coordinated Ocean-ice Reference Experiments (COREs) Notes Published

The global ocean climate modeling community interested in incorporating ocean-ice model experiments have the opportunity to utilize datasets available through the CLIVAR Working Group on Ocean Model Development (WGOMD) Coordinated Ocean-ice Reference Experiments (COREs). The CORE datasets and CORE protocol provide a means to integrate ocean-ice models without a fully coupled atmospheric General Circulation Model (GCM). The COREs Notes document describes the datasets and protocol for running global ocean-ice climate models.

7. Climate Prediction Center Changes Oceanic Nino Index

With warming ocean temperatures, the baseline for detecting El Niño and La Niña has been shifted. Scientists at the Climate Prediction Center (CPC) and International Research Institute (IRI) for Climate and Society, have adjusted by using multiple fixed 30-year averages when calculating temperature anomolies, using the Oceanic Niño index (ONI), that define El Niño and La Niña events. A centered 30-year base period means that El Niño and La Niña episodes will be defined by their contemporary climatology. The adjustment will not alter classification of historical El Niño and La Niña episodes.. For more information, see the NOAA CPC webpage.

Announcement of Opportunity

1. NASA Research Opportunities in Space and Earth Science (ROSES) for 2013

NASA's Science Mission Directorate announces the release of its annual omnibus solicitation, Research Opportunities in Space and Earth Science (ROSES) for 2013: http://solicitation.nasaprs.com/ROSES2013.

Program elements most closely directed towards the NASA's Climate Variability and Change Focus Area and/or CLIVAR goals that are or may be soliciting proposals in ROSES-2013 include:

A.8 Physical Oceanography
A.9 Ocean Salinity Science Team
A.10 SPURS Analysis
A.11 Ocean Vector Winds Science Team
A.13 Cryospheric Science
A.14 IceBridge Science Definition Team
A.15 Sea Level Rise

Topics relevant to the Climate Variability and Change Focus Area and/or CLIVAR that are actively or potentially soliciting this fiscal year include:

A.5 Carbon Cycle Science
A.7 Carbon Monitoring System
A.17 Aura Science Team
A.21 NASA Energy and Water Cycle Study (e.g., Water Extremes)
A.22 Weather (e.g., MJO studies using CYGNSS data)
A.24 Rapid Response and Novel Research in Earth Science
A.28 The Science of Terra and Aqua
A.29 Suomi NPP Science Team for Climate Data Records
A.30 Earth Venture Suborbital – 2
A.33 NASA Data for Operation and Assessment
A.34 New Investigator Program
A.36 Advancing Collaborative Connections for Earth System Science
A.43 Applications: Cross-cutting Topics

Electronic submission of proposals is required by the respective due dates for each program element and must be submitted by an authorized official of the proposing organization. Electronic proposals may be submitted via the NASA proposal data system NSPIRES or via Grants.gov. Details of the solicited programs are given in the Appendices of this ROSES NRA. A web archive (and RSS feed) for amendments, clarifications, and corrections to this ROSES NRA will be available at: http://science.nasa.gov/researchers/sara/grant-solicitations/roses-2013/. Questions concerning general ROSES NRA policies and procedures may be directed to Max Bernstein, Lead for Research, Science Mission Directorate, at sara@nasa.gov.

Meetings and Workshops

1. Water Cycle Missions for the Next Decade Workshop
Baltimore-Washington International Airport Embassy Suites
April 29-30, 2013

Workshop Overview: Building on the first Earth Science Decadal Survey, NASA's Plan for a Climate-Centric Architecture for Earth Observations and Applications from Space, and the 2012 Chapman Conference on Remote Sensing of the Terrestrial Water Cycle, the objective of this workshop is to gather wisdom and determine how to prepare for the next generation of water cycle missions in support of the second Earth Science Decadal Survey.

Following a short plenary, we will discuss the intersection between science questions, technology readiness and satellite design optimization in a series of breakout group discussions designed to form the seeds of a set of water cycle mission formulation groups. The workshop will formulate next-generation water cycle mission working groups and white papers, designed to identify capacity gaps and inform NASA.

Workshop Goals and Outcomes:

• Identify key water cycle science questions and application needs.
• Provide basic information regarding existing, proven and emerging technology available for next-generation water cycle missions;
• Identify science and user needs for next-generation water cycle satellite missions, and the required development of science and applications needed to use this technology;
• Provide an opportunity for applications and users of water cycle satellite systems to identify potential applications; and
• Provide a roadmap and working groups for developing the next-generation water cycle satellite mission science, technology and applications.

The intended outcome of this workshop is to identify the vision for the next decade of water cycle satellite observations, and to develop a roadmap and action plan for developing the foundation for these missions. Achieving this outcome will result in optimized community investments and better functionality of these future missions, and will help to foster broader range of scientists and professionals engaged in water cycle observation planning and development around the country, and the world.

2. 1st International Workshop on Econometric Applications in Climatology
University of Guelph, Guelph, Ontario, Canada
June 5-7, 2013

Many economists are becoming interested in applying econometric methods (especially time series analysis) to geophysical and climatic data sets. In addition, many climate scientists are recognizing the value of developing and applying increasingly rigorous empirical methods to the rich data sets available in the Earth sciences. This interdisciplinary workshop is aimed at sharing expertise and building opportunities for collaboration. We seek papers from both econometrics and climatology that provide good methodological exposition and exploration of the kinds of data sets and techniques available, and the research questions they spark. The workshop will be structured to allow extended interaction time so as to stimulate fresh exchanges of perspectives, advanced methodological discussion and new avenues for scholarly collaboration. Abstract submission deadline: **February 28, 2013**.

Position Announcements

1. Physical Scientist (GS-13/15)
Department Of Energy, Climate and Environmental Sciences Division, Germantown, MD

The Department of Energy, Office of Science, Office of Biological & Environmental Research, Climate and Environmental Sciences Division is seeking a motivated and highly qualified individual to serve as a technical authority in preparing, coordinating and directing the implementation of scientific programs and projects.

Duties:
- Serve as a recognized technical authority and expert on earth system data informatics research, and as such, have the responsibility to plan, coordinate, implement, and evaluate research programs in this field on a national and international level.
- You will serve as an expert and consultant to other scientists, and senior management in areas of assigned responsibility and serve as a Program Manager determining scientific focus and direction of the data informatics aspects of the research program.
- You will examine and ascertain pioneering research needs and opportunities of the data informatics research programs against scientific and technological advances and of potential needs of the DOE.
- You will prepare, justify, and support the portions of the budget relation to the data informatics research and critically evaluate contractor, DOE laboratory, and grantee research proposals and performance.
- You will critically review reports and studies prepared by other offices in DOE and other Federal agencies as they impact the data informatics programs and develop and prepare analytical documents to communicate with top management.

To be qualified for this position, you must have one year of specialized experience performing duties in the area of climate and environmental research with emphasis on earth system data informatics research. Apply online at www.usajobs.gov. Job announcement #: 13-DE-SC-HQ-012. Application deadline: **February 27, 2013.**

2. Associate/Full Professor in Integrated Modeling of Hydroclimate Systems
University of California, Davis (UCD) and Lawrence Berkeley National Laboratory (LBNL)

The Department of Land, Air and Water Resources (LAWR) in the College of Agricultural and Environmental Sciences, University of California, Davis, and Lawrence Berkeley National Laboratory (LBNL) invite outstanding scholars to submit an application for Associate Professor in Integrated Modeling of Hydroclimate Systems. The incumbent will also hold a Faculty (Sr) Scientist appointment at LBNL. This will be a 9-month academic year appointment supported equally by UCD and LBNL. The ideal candidate would link hydrologic and atmospheric process at regional to global scales toward a more unified science of hydroclimatology for better understanding interplay between climate change, hydrologic processes and ecological systems.

The candidate's research is expected to complement existing UC Davis and LBNL research activities in watershed sciences, integrated subsurface/surface hydrologic modeling, large-scale and climate dynamics, mesoscale modeling, and Earth system modeling, among others. Potential areas of research may include predicting and understanding changes in precipitation and the hydrologic cycle, climate trends, and collaborations to understand the propagation and cycling of water through individual watersheds in the California Sierra Nevada.

A PhD in hydrologic science, atmospheric science, or a closely related discipline is required. Applicants for this position will be required to teach a hydroclimate modeling course at the graduate level. Supervision of graduate students, student advising, curricular development, participation in outreach programs, and university service are expected.

For additional information about the position, and to submit application materials, please visit http://recruit.ucdavis.edu. Please include: (1) curriculum vitae; (2) description of current and projected research; (3) summary of teaching interests and experience; and (4) up to three publications, all in PDF format. In addition, applicants should provide the names and email addresses of three references.

Open until filled, but all application materials, including letters of recommendation, must be received by **May 10, 2013** to assure full consideration. UC Davis is an affirmative action/equal employment opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, veterans, and individuals with disabilities.

3. Assistant or Associate Professor in Physical Oceanography
Department of Ocean, Earth and Atmospheric Sciences at Old Dominion University

The Department of Ocean, Earth and Atmospheric Sciences at Old Dominion University (http://sci.odu.edu/oceanography/) invites applications for a tenure track position as Assistant or Associate Professor in Physical Oceanography.

Preference will be given to candidates with research interests and field experience making observations in the coastal ocean. We seek candidates with excellent communications skills that can demonstrate a strong potential for outstanding accomplishments in research and teaching and in working in a multi-disciplinary environment. In addition to excellence in scholarly research, the successful applicant will be expected to contribute to the department's overall curriculum through formal course offerings at the undergraduate and graduate levels and to supervise graduate students pursuing MS and PhD degrees.

Qualifications for the appointment at the rank of Assistant Professor include a PhD in oceanography or related science with postdoctoral experience preferred. Appointment at the rank of Associate Professor will be considered for candidates demonstrating of an exceptional track record of scholarly independence, an active research program and commensurate teaching experience.

Many opportunities exist for disciplinary and interdisciplinary interactions with more than 25 other faculty in OEAS, its Centers for Coastal Physical Oceanography (http://www.ccpo.odu.edu) and Quantitative Fisheries Ecology and other departments within the university. Information about the department and its facilities can be found at: http://sci.odu.edu/oceanography/. Research funding by OEAS faculty totaled over $6.2 M in FY11. An endowment of approximately $16 million provides additional support for departmental programs.

Applications, including a cover letter, CV, teaching (1 page) and research statements (1 page), and contact information for three references must be submitted electronically to: oeassearch@odu.edu. Review of applications will begin **March 1, 2013** and will continue until the position is filled.

4. Postdoctoral Research Associate in Computational Glaciology
Oak Ridge National Laboratory

The Computer Science and Mathematics Division in the Computing and Computational Sciences Directorate and the Climate Change Science Institute (http://climatechangescience.ornl.gov) at the Oak Ridge National Laboratory (ORNL) seeks to hire a Postdoctoral Research Associate in Computational Glaciology.

Major Duties/Responsibilities: The successful candidate will work with a highly diverse team of ice sheet model developers along with climate, computational, and computer scientists at ORNL, other DOE Labs, NCAR, and collaborating universities to develop a community-wide verification and validation framework that will be designed to enable robust ice sheet model development and analysis. The resulting software will quantitatively assess a suite of continental ice sheet models with a range of complexity and be made available to community through an Open Source environment.

The qualified candidate will:
• Design and develop new tools for analysis and integration of current and new in-situ and remotely-sensed observational data and model results.
• Explore new methods and analysis techniques for identifying potential model issues and biases.
• Contribute to ongoing efforts in ice sheet model optimization, initialization, and uncertainty quantification. Incorporation of new and upcoming observational datasets will be a centerpoint of this effort and will require data assessment and interpolation.
• The candidate will conduct research and report results in open literature journals, technical reports, and at relevant conferences.

Qualifications Required:
• A Ph.D. in an Earth or environmental science (preferably glaciology), computer science, or applied mathematics with a focus on numerical methods or optimization is required.
• Excellent interpersonal skills are necessary for working within a highly diverse team, as well as strong oral and written communications skills, good organizational skills, and a high degree of personal motivation.

Preferred Qualifications:
• Experience with large-scale geophysical model development and analysis and/or a background in working with large-scale glaciological/geophysical data sets is strongly desired.
• Proven analytical skills using R and/or Python, and experience with large-scale data analytics are desired.
• Experience with standard scientific programming languages (C/C++, Fortran), parallel programming and algorithm development is also desired.

Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment. Certain exceptions may be considered. This position is a temporary, full-time assignment for 24 months. For further consideration please forward a CV/resume to Kate Carter, ORNL Recruiter, at carterka@ornl.gov.

5. Postdoctoral Research Associates in Geological Sciences
Brown University

Brown University is searching for two postdoctoral research associates to work on funded and new projects investigating the dynamics of the upper ocean and their role in the global climate system. One postdoctoral position will focus on the dynamics of submesoscale eddies and turbulence in the near-surface ocean. A second postdoctoral position will focus on surface waves and their interaction with the atmospheric and oceanic boundary layer processes and transfer of momentum, energy, heat and trace gasses. The primary goals of the funded projects are to quantify and simulate the effects of waves and turbulence on the upper ocean, and the modulation of global climate due to these effects.

The candidate should have a solid background in physical oceanography, atmospheric sciences, and fluid mechanics. Previous experience in modeling is required, but not necessarily in this application area. Experience with modeling using Large Eddy Simulations, wave models such as the NOAA WaveWatch-III, or global climate models will be favored in candidates for these positions. Possible collaborations to extend study into implications for observations or for the climate of the past, present, and future will be encouraged. Strong ability to communicate in both written and spoken English is critical to the success of the research. The starting salary is $50,000, with full benefits.

Applicants should forward a curriculum vitae, official transcript, names of three references, a statement of your qualifications and research interests, and a short proposal (1-2 pages) of an interesting potential project in this area to http://www.interfolio.com/apply/21068.

Applications will be reviewed as received and we hope to fill these positions by **July 2013**. These are two-year positions with the possibility of renewal or extension into new related projects. Completion of the Ph.D. is required by the time of the appointment. Brown University is an equal opportunity/affirmative action employer. We encourage applications from minority and women scientists.

6. Ocean Modeling Postdoctoral Positions
Los Alamos National Laboratory

Los Alamos National Laboratory is a multidisciplinary research institution engaged in science and engineering on behalf of national security. The postdoc positions are within the Climate, Ocean and Sea-Ice Modeling (COSIM) group which develops advanced ocean and ice models for the study of climate and climate change.

The COSIM group seeks two postdocs to contributeto the development of a next-generation global ocean model, MPAS-Ocean. MPAS-Ocean is a multiscale ocean model intended for the study of ocean processes ranging from submesoscale to global scales of motion. Many research opportunities exist within the MPAS-Ocean activity for the development, evaluation and application of this novel approach to global ocean modeling. Of particular interest are the following: development and evaluation of a scale-adaptive parameterization for mesoscale ocean eddies, development and evaluation of the generalized vertical coordinate currently used in MPAS-Ocean, development of high-order transport schemes, and evaluation of MPAS-Ocean within a coupled climate system model.

Minimum Job Requirements: Experience and knowledge related to the design, construction and evaluation of computational models. Software skills including expertise in high-performance computing languages (e.g. Fortran, C, C++) and knowledge of a scripting framework (e.g. Python, MATLAB, NCL). A solid educational foundation in the following areas: numerical methods, fluid dynamics and applied math.

Desired Skills: The successful candidate will have demonstrated scientific excellence as evidenced by submission and publication of authored publications in refereed journals. Education: A Ph.D. in physical oceanography, atmospheric sciences, computational physics, applied math or closely related field.

To Apply: Send a curriculum vitae, digitized copies of transcripts, names of three references, a cover letter detailing qualifications and research interests, and a 1-2 page research proposal to: ringler@lanl.gov. Please include "Ocean Modeling Postdoc" in the subject line. Applications will be reviewed as received with the intent of filling the positions before **July 15, 2013**.

Details: Full job description and requirements for employment can be found at: <www.lanl.gov/careers/career-options/jobs/index.php> (vacancy name: IRC16112). Equal Opportunity: Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. Contact Todd Ringler (ringler@lanl.gov) for more information.

7. Postdoctoral Fellows in Geochemistry
Multidisciplinary Applied Geochemistry Network

Seeking 2-3 postdoctoral fellows to join our dynamic and rapidly growing network of leading scientists, industry partners and state-of-the-art analytical laboratories across Canada. The Multidisciplinary Applied Geochemistry Network (MAGNET) is an NSERC-funded industrial stream Collaborative Research and Training Experience (CREATE) program devoted to analytical, environmental and exploration geochemistry.

Currently have openings for postdoctoral research in the following areas:
• Isotopic insights into modern and paleo- sea ice dynamics in the Arctic Ocean and subarctic seas
• Using Si isotopes to better constrain the silica cycle in the modern and past oceans
• Understanding soil formation, soil processing and the mobility of pollutants in soils using new stable isotope systems
• Fluid alteration of ultramafic deposits – an investigation of fluids, minerals and gases during serpentinization
• Isotopic and geochronologic evolution of Cosigüina volcano, Nicaragua

Qualified candidates must have a recent PhD (within the last five years) in theEarth/ocean/environmental sciences, chemistry, or a related field and should have a strong background in isotope geochemistry and mass spectrometric techniques, together with a solid publication record. Postdoctoral fellows will be expected to work closely with MAGNET faculty and industry partners, and provide mentorship to undergraduate, MSc and PhD trainees. Applicants are encouraged to develop and explore their own research interests within one of the above areas. Please consult the MAGNET website for further details about each topic. It is strongly recommended to contact the supervisor(s) to discuss the essence of the project before submitting a formal application.

Complete applications will consist of a CV (including list of publications), three reference letters, and a letter of interest detailing why you want to join MAGNET, your suitability for the position, and your research plan. Inquiries and applications should be sent to the MAGNET Program Coordinator Diane Hanano (dhanano@eos.ubc.ca) by **February 28th 2013**.