



## **e-NEWS February 2007**

### **Carbon Research Activity 2007**

#### **RECENT ACTIVITIES**

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##### **STATUS OF CURRENT CAPABILITIES AND FUTURE DIRECTIONS FOR CARBON CYCLE DATA ASSIMILATION**

*15-19 January 2007, San Antonio, Texas, USA*

Organized around the theme of "Bridging the Studies of Weather and Climate", the purpose of this meeting is to explore the elements that integrate weather and science and to strengthen the links between the studies of weather and climate.

Contact: [Scott Denning / denning@atmos.colostate.edu](mailto:denning@atmos.colostate.edu) and S. Doney

Meeting Website: <http://www.ametsoc.org/meet/annual/index.html>

##### **JOINT CANADA-MEXICO-USA CARBON PROGRAM (JNACP) PLANNING MEETING**

*25-26 January 2007, Colorado Springs, Colorado, USA*

A meeting to foster a community of NACP scientists that can effectively tackle complex, crosscutting issues to resolve uncertainties in understanding and managing the carbon cycle of North America and adjacent oceans.

Contact: [support@www.nacarbon.org](mailto:support@www.nacarbon.org)

Meetings Website: [http://www.nacarbon.org/2007\\_meetings/index.htm](http://www.nacarbon.org/2007_meetings/index.htm)

#### **FUTURE ACTIVITIES**

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##### **BIOENERGY EUROPE 2007**

*5- 6 February 2007, London, UK*

Information on the latest EU legislation and incentive schemes that aim to increase the use of biomass and biofuels across the 25 member states. Topics include: economic drivers for bioenergy, update on the EU Biomass Action Plan, market opportunities in biofuels, ethanol vs biodiesel, attracting capital into the bioenergy sector, Pros and cons of venture capital and public equity markets, how the CDM is boosting biomass, market trends in renewable obligation certificates, and risk management challenges in biofuel projects.

Contact: [info@environmental-finance.com](mailto:info@environmental-finance.com)

Conference Website: <http://www.environmental-finance.com/conferences/2006/Bio07/intro.htm>

##### **FLUXNET SYNTHESIS WORKSHOP 2007**

*19-22 February 2007, Italy*

Key topics for discussion include flux tower based global estimates of NEE and its components, decadal trends, inter-annual variability, lag effects and adaptation and new insights into ecosystem physiology.

Contact: [Dario Papale / darpap@unitus.it](mailto:darpap@unitus.it) and [Markus Reichstein / markus.reichstein@uni-bayreuth.de](mailto:markus.reichstein@uni-bayreuth.de)

Scoping Paper: [http://www.globalcarbonproject.org/MEETINGS/2007/FLUXNET\\_draft\\_outline.pdf](http://www.globalcarbonproject.org/MEETINGS/2007/FLUXNET_draft_outline.pdf) (pdf, 25kb)

## **ARCTIC CARBON ASSESSMENT WORKSHOP (AMAP/CLiC/IASC)**

27 February - 1 March 2007, Seattle, USA

A scientific synthesis and assessment of the Arctic carbon cycle

Contact: [Chris Lace](mailto:clace@iarc.uaf.edu) / [clace@iarc.uaf.edu](mailto:clace@iarc.uaf.edu) and [David McGuire](mailto:ffadm@uaf.edu) / [mailto: ffadm@uaf.edu](mailto:ffadm@uaf.edu)

For more information: <http://www.amap.no/>

## **CARBON MARKET INSIGHTS**

13-15 March 2007, Copenhagen, Denmark

This years event will reflect on major issues including the opening up of the EU emissions trading scheme to the global carbon markets as well as carbon projects, emissions and technologies.

Contact: [conference@pointcarbon.com](mailto:conference@pointcarbon.com) Conference Website:

<http://www.pointcarbon.com/Events/Carbon%20Market%20Insights/category401.html>

## **DEVELOPING PROTOCOLS AND NETWORKS FOR URBAN AND REGIONAL CARBON MANAGEMENT**

TBA 2007, Japan

This workshop will initiate the development of an infrastructure to promote an international network of researchers devoted to urban and regional carbon management. The workshop will focus on developing protocols, collaborations, and a collaborative network of researchers.

Contact: [Shobhakar Dhakal](mailto:shobhakar.dhakal@nies.go.jp) / [shobhakar.dhakal@nies.go.jp](mailto:shobhakar.dhakal@nies.go.jp) and [Brent Yarnal](mailto:alibar@eesi.psu.edu) / [alibar@eesi.psu.edu](mailto:alibar@eesi.psu.edu)

Scoping Paper: (doc, 266Kb)

[http://www.globalcarbonproject.org/MEETINGS/2007/GCP\\_Penn\\_NIES.doc](http://www.globalcarbonproject.org/MEETINGS/2007/GCP_Penn_NIES.doc)

## **URBAN AND REGIONAL DEVELOPMENT PATHWAYS AND THEIR CARBON IMPLICATIONS**

28-30 March 2007, Tsukuba, Japan

Objectives of the workshop:

- Understand the status quo of urbanization phenomena and its drivers in relation to carbon management and assess the availability of information and data in this area
- Discuss the methodological challenges represented by developing cross-scale linkages, integrated analytical frameworks and modelling of systemic macro evolutionary patterns.
- Review available top-down and bottom-up studies of urbanization and associated models of urbanization.
- Clarify the policy implications of urbanization trends and urban carbon management.
- Develop a forum/network of the scholars interested in the analysis and modelling of urban and regional development pathways and scenarios and their carbon consequences.

Contact: [Shobhakar Dhakal](mailto:shobhakar.dhakal@nies.go.jp) / [shobhakar.dhakal@nies.go.jp](mailto:shobhakar.dhakal@nies.go.jp)

Meeting Website: <http://www.gcp-urcm.org/Activities/A20070328>

## **OCEAN SURFACE: pCO<sub>2</sub> AND VULNERABILITIES**

11-14 April 2007, UNESCO, Paris

The purpose of this workshop is to review the current knowledge base and enhance international cooperation to resolve the magnitude, variability and processes governing ocean sources and sinks of carbon: from observations, process-based models and atmospheric and oceanic inversions.

Contact: [Roger Dargaville](mailto:dargaville@unesco.org) / [dargaville@unesco.org](mailto:dargaville@unesco.org)

Meeting Website: [http://www.ioc.unesco.org/ioccp/pCO2\\_2007.htm](http://www.ioc.unesco.org/ioccp/pCO2_2007.htm)

## **CARBON IN THE PEATLANDS: STATE OF THE ART AND FUTURE RESEARCH**

*15-18 April 2007, Wageningen, The Netherlands*

The symposium aims to bring together leading scientists of different disciplinary fields to summarize the state-of-the-art in recent research related to carbon cycling in peatlands, to define directions of future research and to facilitate transfer of knowledge between disciplines.

Contact: [Juul Limpens](mailto:Juul.Limpens@wur.nl) / [Juul.Limpens@wur.nl](mailto:Juul.Limpens@wur.nl)

Meeting Website: <http://www.peatnet.siu.edu/cc07mainpage.html>

## **ATMOSPHERIC CO<sub>2</sub> N INVERSIONS**

*24-27 April 2007, Purdue University (IN), USA*

Contact: [Rachel Law](mailto:Rachel.law@csiro.au) / [Rachel.law@csiro.au](mailto:Rachel.law@csiro.au) Website:

[http://www.purdue.edu/transcom/meetings%20\\_purdue.php](http://www.purdue.edu/transcom/meetings%20_purdue.php)

## **IMPACTS OF LANDCOVER CHANGE ON ECOSYSTEM CARBON AND WATER AGU CYCLING JOINT ASSEMBLY (B03 SESSION)**

*22-25 May 2007, Acapulco, Mexico*

We invite contributions from experimental, remote sensing and modeling studies that attempt to quantify impacts of land use change on carbon and water cycling. Some relevant questions include the following: What are the ecological and functional changes in the water balance as a result of grass to woody plant conversion (and vice-versa), and how might these changes alter carbon and nutrient cycling? How do land cover changes affect evapotranspiration pathways? How does a change in ecosystem functional types impact carbon stores, and how might this alter soil nutrient cycling and trace gases? We hope that these studies will bridge disciplinary understanding by examining the linkages between hydrology and ecology.

Abstracts due 1 March.

Contact: Russell L. Scott / [rscott@tucson.ars.ag.gov](mailto:rscott@tucson.ars.ag.gov) and Alejandro E Castellanos / [acastell@guaymus.uson.mx](mailto:acastell@guaymus.uson.mx)

Website: <http://www.agu.org/meetings/ja07/>

## **NCAR ADVANCED STUDY COLLOQUIUM, "REGIONAL BIOGEOCHEMISTRY: NEEDS AND METHODOLOGIES"**

*June 4-15 2007, Boulder, Colorado*

The colloquium will provide unique hands-on learning components and significant opportunities to discuss the state of the science and future directions of the field with colleagues and a select group of keynote speakers. Graduate students involved in research on regional-scale terrestrial biogeochemical cycles of carbon, water and nitrogen are invited to apply.

More information: <http://www.globalcarbonproject.org/MEETINGS/2007/SymposiumNCAR.doc>  
(29Kb)

## **INTERNATIONAL ENERGY WORKSHOP (IEW)**

*25-27 June 2007, Stanford University, CA, USA*

Abstract submissions are invited for the following topics: Adaptation and mitigation, Energy security, Geopolitics of natural gas, Global energy resources, Micro-credits and energy development "Energization", Social sciences and energy scenarios, The European Emissions Trading Scheme, UNFCCC/Post-2012 regimes, Uncertainty and probabilities in E3 (energy-economy-environment) modeling.

Abstract submission deadline: 28 February 2007 Workshop Website:

[http://www.iiasa.ac.at/Research/ECS/IEW2007/index\\_1stannouncement.html](http://www.iiasa.ac.at/Research/ECS/IEW2007/index_1stannouncement.html)

## **7th MEETING OF THE SCIENTIFIC STEERING COMMITTEE OF THE GCP**

Contact: [Pep Canadell / pep.canadell@csiro.au](mailto:pep.canadell@csiro.au) and  
[Shobhakar Dhakal / shobhakar.dhakal@nies.go.jp](mailto:shobhakar.dhakal@nies.go.jp)

### **CARBON CYCLE RESEARCH IN AFRICA**

*24-26 August 2007, Kruger NP, South Africa, Symposium and field visit to Kruger National Park*

The meeting will bring together a number of regional and international expertises working on carbon cycle sciences in the African continent. Topics of discussion will include regional carbon budgets, urban and regional carbon management, bioenergy, carbon-biodiversity interactions, and other key terrestrial and aquatic processes and fluxes of the carbon cycle (natural, managed and human dimensions of the carbon cycle). All groups are invited to participate. A trip to Kruger National Park is scheduled to visit a number of observation and experimental facilities used in carbon research.

Contact: [Guy Midgley / Midgley@sanbi.org](mailto:Guy.Midgley@sanbi.org), [Pep Canadell / pep.canadell@csiro.au](mailto:pep.canadell@csiro.au)  
and [Shobhakar Dhakal / shobhakar.dhakal@nies.go.jp](mailto:shobhakar.dhakal@nies.go.jp)

### **WEST SIBERIAN PEATLANDS AND CARBON CYCLE: PAST AND PRESENT**

*26-30 August 2007, Khanty-Mansiysk, Russia*

The goal of The 2nd International Field Symposium is to present research results and to promote the exchange of expertise in the field of the processes of land paludification, conservation of natural functions of mires and bogged forests, ecological monitoring of mires, determination the role of mires in the global carbon cycle as well as estimation of anthropogenic influence on peatbog development and present land reclamation technologies.

Contact: N.A. Sazonova / [n\\_sazonova@ugrasu.ru](mailto:n_sazonova@ugrasu.ru)

Scoping Paper: [http://www.globalcarbonproject.org/MEETINGS/2007/Peatland\\_WK\\_Russia.pdf](http://www.globalcarbonproject.org/MEETINGS/2007/Peatland_WK_Russia.pdf)  
(pdf, 148Kb) Abstracts to be sent: <mailto:symp2007@mail.ru>

### **CARBON-CLIMATE-HUMAN INTERACTIONS IN TROPICAL PEATLAND: CARBON POOLS, FIRE, MITIGATION, RESTORATION AND WISE USE**

*28-31 August 2007, Yogyakarta, Indonesia*

This International Symposium will present the most up to date information on tropical peatlands, especially their role in the global carbon cycle and levels of GHGs released by them as a result of deforestation, drainage, land use change and fire. A workshop will provide a platform for data synthesis and integration in order to inform decision makers of the global environmental benefits of maintaining tropical peat carbon stores in situ and impress upon the UNFCCC the importance of including peat carbon in its post 2012 policies on climate change.

Contact: [Susan Page / sep5@le.ac.uk](mailto:sep5@le.ac.uk)

Website: <http://www.geog.le.ac.uk/staff/sep5/tropeat/carbopeat>

### **VULNERABILITY OF METHANE HYDRATES**

*TBA 2007, IIASA, Austria*

Methane hydrates are an energy source of potentially staggering magnitude compared with other known hydrocarbon deposits. It is found in deposits in Polar Regions and in costal shelves around the world. Both global warming and the decision to extract them (if it becomes economically feasible) could open a large new source of carbon to the atmosphere over the next century with its associated impacts to climate change. The workshop will explore the risks for large releases over this century based on present trends in global warming, technological development, and energy economics.

Contact: Nebojsa Nakicenovic / [naki@iiasa.ac.at](mailto:naki@iiasa.ac.at) and Pep Canadell / [pep.canadell@csiro.au](mailto:pep.canadell@csiro.au)

Scoping paper : Methane Hydrates Workshop 2007 (doc, 220Kb)

<http://www.globalcarbonproject.org/meetings/2007/methanehydratesworkshop2007.doc>

## **14th WMO/IAEA MEETING OF EXPERTS ON CARBON DIOXIDE, OTHER GREENHOUSE GASES, AND RELATED TRACER MEASUREMENT TECHNIQUES**

*10-13th September 2007, Finnish Meteorological Institute, Helsinki, Finland*

The 14th meeting will review current WMO data quality objectives. It will be "issue oriented" covering such topics as CO<sub>2</sub>, stable isotopes, radiocarbon in CO<sub>2</sub>, O<sub>2</sub>/N<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, CO, and H<sub>2</sub> measurements, calibration, quality control, data management, and archiving. New and emerging technology will also be discussed including measurements from satellites and flux tower studies with discussion how to best integrate and apply global greenhouse gas observations to address the needs of the users of this important Global Earth Observation (GEO) system.

Contact: Yrjö Viisanen / [yrjo.viisanen@fmi.fi](mailto:yrjo.viisanen@fmi.fi) and Tuomas Laurila / [tuomas.laurila@fmi.fi](mailto:tuomas.laurila@fmi.fi)

More information: [http://www.globalcarbonproject.org/MEETINGS/2007/wmo\\_iaea\\_14th.pdf](http://www.globalcarbonproject.org/MEETINGS/2007/wmo_iaea_14th.pdf) (55Kb)

## **2nd INTERNATIONAL WORKSHOP ON UNCERTAINTY IN GREENHOUSE GAS INVENTORIES**

*27-28th September 2007, International Institute for Applied Systems Analysis, Laxenburg, Austria*

Methods for the proper accounting of human-induced GHG sources and sinks at national scales have been stipulated by institutions such as the Intergovernmental Panel on Climate Change (IPCC) and many countries have been producing national assessments for well over a decade. As increasing international concern and cooperation aim at policy-oriented solutions to the climate change problem, a number of issues have begun to arise regarding verification and compliance under both proposed and legislated schemes meant to reduce the human-induced global climate impact. This workshop, jointly organized by the Austrian-based International Institute for Applied Systems Analysis and the Systems Research Institute of the Polish Academy of Sciences, brings together international experts to address relevant uncertainty issues underlying the assessment of greenhouse gases.

Contact: Joanna Horabik / [ghg2007@ibspan.waw.pl](mailto:ghg2007@ibspan.waw.pl)

Website: <http://www.ibspan.waw.pl/ghg2007/>

## **5th ANNUAL CARBONEUROPE-INTEGRATED PROJECT MEETING**

*8-12 October 2007, Poznan, Poland*

Contact: [Annette Freibauer](mailto:afreib@bqc-jena.mpg.de) / [afreib@bqc-jena.mpg.de](mailto:afreib@bqc-jena.mpg.de)

## **GREENHOUSE 2007**

*2-5 October August 2007, Sydney, Australia*

The conference will present an opportunity for scientists and representatives from industry and all levels of government to hear the latest findings in climate science, and discuss the implications for Australia and the region. The conference will focus on projections for the future; the use of probabilities for risk management; the impact that climate change will have on human activity; and changing perceptions of climate change.

Website: <http://www.greenhouse2007.com/>

## **SOUTHEAST ASIA REGIONAL CARBON AND WATER PROJECT**

*SARCS Call for Proposals - Phase III (2007)*

Objectives: To enhance understanding of the spatial and temporal patterns of the contemporary regional carbon and water cycles.

Call for Proposals: (doc, 70Kb)

[http://www.globalcarbonproject.org/top\\_bar/new/January\\_2007/sarcs%202007%20cfp\\_1221.doc](http://www.globalcarbonproject.org/top_bar/new/January_2007/sarcs%202007%20cfp_1221.doc)

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## RECENT PRODUCTS

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### **CARBON POLICY BRIEF**

The Global Carbon Project worked with the United Nations Education, Scientific and Cultural Organization (UNESCO) and the Scientific Committee on Problems with the Environment (SCOPE) to prepare this overview of the dynamics of the carbon-climate-human system. We explore a systems approach to managing these interactions in terms of the gap between current carbon emissions and those needed to stabilize atmospheric CO<sub>2</sub> as well as their vulnerability and inertia.

Download: [http://www.globalcarbonproject.org/Policy\\_Brief.html](http://www.globalcarbonproject.org/Policy_Brief.html)

### **NEW WEBPAGE FOR URBAN AND REGIONAL CARBON MANAGEMENT**

<http://www.gcp-urcm.org/>

### **TERRESTRIAL C SINK SATURATION**

A synthesis of terrestrial processes controlling carbon fluxes in and out of the biosphere with an emphasis on the future dynamics of carbon sinks and sources on land.

Download: (pdf, 1.0Mb)

[http://www.globalcarbonproject.org/products/paper\\_specialissues\\_books/canadell.2007.sinksaturation.springer.pdf](http://www.globalcarbonproject.org/products/paper_specialissues_books/canadell.2007.sinksaturation.springer.pdf)

### **CLIMATE PROJECTIONS OVER TROPICAL PEATLANDS**

The activity on vulnerability of tropical peatlands has produced the first assessment of climate change over the main tropical peatlands regions of Southeast Asia and Amazon as a key measure of its future vulnerability to large C emissions. Download: (pdf, 372Kb)

[http://www.globalcarbonproject.org/top\\_bar/new/january\\_2007/Wenhong.2007.FuturePreciptTropicalPeatlands.GRL.pdf](http://www.globalcarbonproject.org/top_bar/new/january_2007/Wenhong.2007.FuturePreciptTropicalPeatlands.GRL.pdf)

### **GLOBAL CARBON PROJECT - SCIENCE FRAMEWORK**

The Science Framework of the Global Carbon Project is available in English, Chinese, Japanese and Russian. The pdf file can be downloaded from the GCP website.

Download: <http://www.globalcarbonproject.org/products.htm>

## **VISIT THE GCP CARBON PORTAL FOR ADDITIONAL RESOURCES**

[http://www.globalcarbonproject.org/carbon\\_portal.htm](http://www.globalcarbonproject.org/carbon_portal.htm)

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To submit an entry for the next eNEWS, please send an email to [pep.canadell@csiro.au](mailto:pep.canadell@csiro.au).

If you have received this information via email and do not wish to receive more emails, please send an email to [info@globalcarbonproject.org](mailto:info@globalcarbonproject.org) with the Subject: REMOVE. eNEWS are distributed no more than twice a year.

[www.globalcarbonproject.org](http://www.globalcarbonproject.org)