

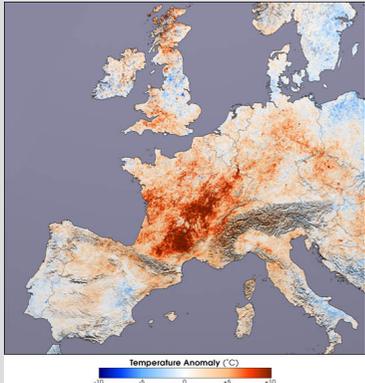
**"The terrestrial carbon cycle is an essential diagnostic of ecosystem health and the basis of food and timber production."**

#### INVITED EXPERTS

- are coming from the European Union, national ministries, commissions, and NGOs,
- involved in the management of carbon sinks, climate change, rural affairs, forestry, and sustainability,
- are interested in an exiting discussion with top level scientist of **CARBO-Extreme**, and
- want to identify favourable means of communication and products of the CARBO-Extreme project in cooperation with the scientists.

#### REGISTRATION

Please register informally until the 15 February 2010.



Temperature difference in Europe from the average during the European heat wave of 2003

[http://earthobservatory.nasa.gov/images/imagerecords/3000/3714/euro\\_2003-2001.JPG](http://earthobservatory.nasa.gov/images/imagerecords/3000/3714/euro_2003-2001.JPG)

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#### THE CARBO-EXTREME CONSORTIUM

The Consortium consists of 25 partners from 12 European countries. It is coordinated by the Max-Planck-Institute for Biogeochemistry Jena, Germany.



The research leading to these results has received funding from the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 226701.



# CARBO-Extreme



## Carbon Management under Climate Change and Vulnerability of recent Carbon Sinks under Extreme Events

### WORKSHOP

**15/16 April 2010  
 Potsdam, Germany**

[www.carbo-extreme.eu](http://www.carbo-extreme.eu)

**"CARBO-Extreme builds upon an integrative observational, modelling and assessment approach."**

## BACKGROUND

How increasing climate variability and more frequent extreme events will affect the future carbon budget in Europe is highly uncertain. According to the biggest current assessment the European terrestrial biosphere is a net carbon sink (CARBOEUROPE-IP project). However, the future fate of this sink is highly uncertain depending on climate and land-use. Climate variability and extremes will play an important role, but have not been sufficiently accounted for in modelling and experimental studies.

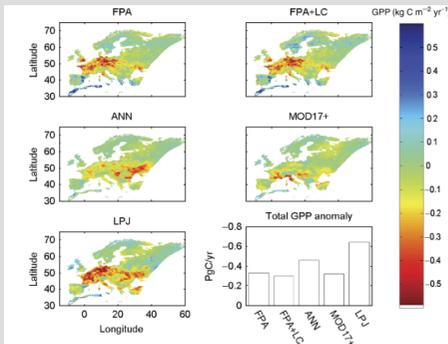
This leads to a critical knowledge gap also for experts and decision-makers in carbon sinks management.

**CARBO-Extreme** is an EU-funded research project and wants to close this knowledge gap by

- bringing together and reanalyzing existing long-term carbon-cycle related observations,
- synthesizing and harmonizing new experimental approaches,
- compiling and adapting latest regional climate scenarios,
- a strong model-data integration framework.

**CARBO-Extreme** aims

- (1) for an improved assessment of the European carbon cycle under future climate, and
- (2) for recommendations to decision-makers in the management of Carbon sinks.



Jung et al. 2008: Maps of the 2003 anomaly of GPP from LPJmL, ANN, FPA and FPA1LC. Reference is the 2000–2002 mean. The lower right panel shows the total GPP flux anomaly over the European domain for the different models.

To optimise the relevance of **CARBO-Extreme** investigations and to ensure that the information reaches the relevant people, we intend to discuss the risks related to carbon sequestration and stocks with a number of selected experts and decision-makers. Therefore we organise a



PIK's main building (Michelson House) on the Telegraphenberg

## Workshop on Carbon Management under Climate Change and Vulnerability of recent Carbon Sinks under Extreme Events 15/16 April 2010, Potsdam, Germany.

### OBJECTIVES OF THE WORKSHOP

The goals of this expert workshop are

- (1) to bring together important decision-makers of different national and European levels and internationally recognised scientists in the field of carbon stocks and sequestration,
- (2) to reveal their major concerns related to carbon stocks and fluxes, and to identify how **CARBO-Extreme** can contribute to these questions, and
- (3) to identify most favourable means to communicate the results of our investigations to decision-makers at different national and international levels.

**"CARBO-Extreme will improve predictions about the future carbon cycle in Europe."**

### UPDATED PROGRAMME

Venue: Potsdam Institute for Climate Impact Research (PIK), Telegraphenberg, Potsdam, Germany.

Moderation: Prof. Riccardo Valentini

#### Thursday, 15 April 2010

19:00 Icebreaker Dinner with brief introduction at the Restaurant „Zum Fliegenden Holländer“

#### Friday, 16 April 2010

- 9:00 Welcome
- 9:05 Introduction to **CARBO-Extreme** by Dr. M. Reichstein
- 9:30 Specifications for the workshop by Dr. J.F. Soussana and Prof. Dr. W. Cramer
- 10:00 Questions and discussion
- 10:30 Coffee break
- 11:00 Identification of the most suitable output measures: What are meaningful and comprehensible measures to express „carbon vulnerability“? Are combined measures favourable in the daily business of a decision-maker (e.g. risk)? Or suits a combination of clearer measures better your needs?
- 12:00 Lunch break
- 12:45 Guided tour around the campus on Telegraphenberg
- 13:30 Summary of the morning discussion
- 13:40 Ranking of suggested output measures
- 14:15 Identification of favourable means of communication and products: What are the promising ways to communicate **CARBO-Extreme** results to decision-makers at different levels? What will be important products of **CARBO-Extreme**? What about handbooks, Early Warning Systems, database access and interactive maps?
- 16:00 Coffee break
- 16:20 Summary of the results and future proceeding
- 16:45 Goodbye
- 17:00 Closing