



DynaQlim workshop
LITHOSPHERE-CRYOSPHERE INTERACTIONS

1st circular

Date: September 26-28, 2012

**Place: Faculty of Earth Sciences, Ruhr University,
Bochum, Germany**



Background

The melting of large ice caps in relatively short times produces significant mass redistributions on the surface of the Earth, affects sea level and land uplift, and alters lithospheric stresses in formerly glaciated areas and adjacent regions, resulting eventually in powerful earthquakes. The effects from the last deglaciation, some 10 ka ago, are still felt today through rapid uplift rates and enhanced seismicity in North America and Fennoscandia. The scientific progress made in recent years, in particular by monitoring gravity changes and land uplift from the space, provides us today with a better understanding of the interplay between cryosphere and lithosphere.

The purpose of this workshop is to sum up the present day knowledge pertaining to data, techniques and models. We invite contributions addressing all aspects of the topic from the viewpoint of e.g. climate sciences, geodesy, geomorphology, seismology, structural and earthquake geology, and numerical modelling. The discussions and presentations will be specifically structured around but not limited to the following topics:

- ***Geodetic studies***
- ***(Paleo)climatic changes***
- ***Mantle/lithosphere rheology***
- ***Neotectonics***

Invited speakers

- ***Ilmo Kukkonen***, GTK, Espoo, Finland
- ***Bjørn Lund***, Uppsala University, Sweden
- ***Ingo Sasgen***, GFZ, Potsdam, Germany
- ***Holger Steffen***, Univ. of Calgary, Canada
- ***Wouter van der Wal***, TU Delft, Netherlands
- ***Pippa Whitehouse***, Durham University, UK

Meeting Format

The workshop will be composed of oral and poster presentations and discussion sessions. Discussion sessions on the particular topics listed above (but not restricted to these) will be held. We are open for suggestions of presentations and discussion topics.

Please respond by sending an email to christophe.pascal@rub.de. In your communication, please indicate a potential presentation title, discussion topic of interest or any other suggestion. Please e-mail as soon as convenient, but definitely before June 30th 2012.

Abstract format

Abstracts should not be longer than 1 A4 page, including title, list of authors, affiliations, abstract text no more than one figure and references. Please use the template available at the workshop web page (dynaqlim.fgi.fi).

Publication

The proceedings of the workshop will be published online.

If there is enough interest, a special issue in a scientific journal is planned to be arranged after the workshop. Please, send an e-mail of interest to christophe.pascal@rub.de no later than September 15th.

Scientific Committee

Christophe Pascal, Ruhr University Bochum, Germany
Erik Irwins, JPL, Caltech, Pasadena, CA, USA
Volker Klemann, National Oceanography Centre, Liverpool, UK
Markku Poutanen, Finnish Geodetic Institute, Masala, Finland
Bert Vermeersen, TU Delft, Netherlands

Organizing Committee

Christophe Pascal, Ruhr University, Bochum, Germany
Markku Poutanen, Finnish Geodetic Institute, Masala, Finland

Participation fee

A modest contribution of 50€ is asked for the workshop dinner.

Important Dates

April 15th 2012	Announcement of the workshop; e-mail of interest/pre-registration to be sent to christophe.pascal@rub.de
June 30th	Deadline for registration and abstract submission
July 15th	Workshop agenda released
September 26th-28th	Workshop