

ABSTRACTS

LATE PLEISTOCENE GLACIGENIC DEPOSITS IN THE CENTRAL PART OF THE SCANDINAVIAN ICE SHEET

THE INQUA PERIBALTIC GROUP FIELD SYMPOSIUM IN
FINLAND, SEPTEMBER 11.-15. 2006

EDITED BY
PETER JOHANSSON, JUHA-PEKKA LUNKKA AND PERTTI SARALA

ORGANIZERS:

GEOLOGICAL SURVEY OF FINLAND, NORTHERN FINLAND OFFICE
UNIVERSITY OF OULU, INSTITUTE OF GEOSCIENCES AND THULE INSTITUTE
UNIVERSITY OF HELSINKI, DEPARTMENT OF GEOLOGY
THE FINNISH NATIONAL COMMITTEE FOR QUATERNARY RESEARCH (INQUA)
THE PERIBALTIC GROUP (INQUA SUB-COMMISSION ON GLACIATION)
FRIENDS OF BALTIC QUATERNARY



DATED – A DATING DATABASE AND GIS-BASED RECONSTRUCTION FOR THE EURASIAN DEGLACIATION

Gyllencreutz, R., Mangerud, J., Svendsen, J-I. and Lohne, Ø.

Department of Earth Science and Bjercknes Centre for Climate Research, University of Bergen, Allég. 41, 5007 Bergen, NORWAY

E-mail: richard.gyllencreutz@geo.uib.no

We present here the ongoing project DATED - DATAbase on Eurasian Deglaciation Dates (DATED 1) and a Digital Atlas of the Eurasian Deglaciation (DATED 2). The project is aimed to produce a dating-database and an empirical map of the deglaciation pattern of the Eurasian ice sheets in a geographic information system (GIS), based on results from the literature. This task is a part of the British-Dutch-Norwegian co-operative project Ocean Reconstruction and Modelling of the European deglaciation (ORMEN) led by Sandy Harrison, Bristol.

DATED 1 is aimed to create a database on available dates (^{14}C , OSL and exposure) relevant for the deglaciation chronology (from ~30 ka to ~9 ka). The database will contain information on date and error, calibration details, sample location, sample material, lab reference, author reference, min. or max. age, and more.

DATED 2 is aimed to build a GIS on the deglaciation pattern of the Eurasian ice margin with interpreted ice margin positions for certain time-slices on a calendar year time scale, based on existing literature on mapped ice marginal deposits. In the GIS, all original data sources (scanned maps, dating and calibration info etc.) and literature references will be stored, available for successive quality control and re-interpretation.

The main purposes with DATED are to provide accurate digital maps with isochrones of the Eurasian deglaciation pattern to modelers and other researchers, as an aid for identifying areas where data is lacking, and to facilitate future re-interpretation of the deglaciation pattern. Once released to the scientific community, the dating database and the GIS will be available on the web and successively updated, in order to serve as a primary source of information about the deglaciation of Eurasia.