



The Meltwater routing and Ocean-Cryosphere-Atmosphere response (MOCA) project

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MOCA is an INQUA (International Union for Quaternary Research) sponsored project examining meltwater/iceberg mediated ice and climate interactions. It brings together an international network of quaternary field specialists, paleoceanographers, and modelers. The principal objective of MOCA is to establish a constrained regional meltwater and iceberg discharge chronology for the northern hemisphere during the last deglaciation with well-defined error bars. The consequent objective is to establish a good conceptual understanding of the interactions between the cryosphere, ocean, and atmosphere associated with this chronology. This paper summarizes the initial constraint data sets, data calibrated glacial systems modeling that integrates observations with physics to generate probability distributions for the deglacial chronologies, and the interim results of this calibration.

Further information on the project is available from the MOCA website:
<http://www.physics.mun.ca/~lev/MOCA.html>