

a) Is the 20<sup>th</sup> century warming of the Arctic unprecedented in the last 2 kyr? b) What is the multi-decadal- to century-scale variability in Arctic climate? c) What portion of the Arctic-wide and regional temperature changes during the last 2 kyr can be explained by changes in solar irradiance and volcanic activity, and what portion is related to internal adjustments of the climate system? In addition, improvement of our confidence in the interpretation of the proxies and the geochronology were identified as important underlying goals.

The group decided to limit the study area to north of 60°N latitude, which in-

cludes Greenland, Iceland and Alaska. A website for the WG has been launched, which lists the researchers and sub-projects involved ([www.pages-igbp.org/science/arctic2k/](http://www.pages-igbp.org/science/arctic2k/)). Furthermore, a metadata-base is being developed there to assist the compilation of Arctic records. An immediate task is to map the available data and to assess regions with data gaps. The Arctic2k WG will be organizing three regional reconstruction workshops in 2009 (Scandinavia-Nordic Seas-Svalbard; Baffin Bay-Greenland-Iceland; Northern Pacific-Alaska). All paleoclimate scientists working in the Arctic with high-resolution data

and/or modeling are welcome to join and contribute to the PAGES Arctic2k WG.

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## Oral and poster session themes:

### Climate Forcings

- Climate-Biogeochemistry Interactions
- Stability of Polar Ice Sheets & Sea Level

### Regional Climate Dynamics

- Reconstructing Climate Modes
- Regional Climate Reconstructions: Filling the Gaps

### Global-Scale Earth System Dynamics

- Origin of Interglacial Climate Variability
- The Global Hydrological Cycle & Abrupt Changes

### Past Human-Climate-Ecosystem Interactions

- Past Perspectives on Modern Human-Environment Interactions
- Land Cover, Water & Sediment: Regional & Global Synthesis

### Chronology in Paleoscience

### Proxy Development, Calibration & Validation Modeling in Paleoscience Data Management

### Hot topic discussions:

- The Role of Paleoscience in IPCC
- Past Ocean Acidification: Biogenic Impacts & Climate Feedbacks
- Transient vs. Rapid Change in the Sahara
- How Abrupt can Sea Level Rise?
- Future Directions for Paleoscience & PAGES