

Glaciology

GI-1 North Greenland Ice Core project

Hitoshi SHOJI (Kitami Institute of Technology) 99

GI-2 Ice core drilling on Mt. Logan, Yukon, Canada

Kumiko GOTO-AZUMA (NIPR) 100

Title: North Greenland Ice Core project**Discipline:** Glaciology**Field leader:** Hitoshi SHOJI**Institution:** Kitami Institute of Technology, New Energy Resources Research Center**Address:** 165 Koen-cho, Kitami 090-8507 JAPAN**TEL & E-mail:** +81-157-26-9493, shojihts@mail.kitami-it.ac.jp**Programme:** Circum-Polar study on environmental record by ice core analyses in northern hemisphere**Principal Investigator:** Kumiko GOTO-AZUMA**Proj. Period:** 1999 -**Institution:** National Institute of Polar Research**Co-research Institution & Scientist (out of JPN):** Univ. Copenhagen (Denmark): D. Dahl-Jensen, Alfred Wegener Institute for Polar and Marine Research (Germany): H. Miller

Planned field activity**Invest. Area:** NGRIP Camp (Greenland)**Field Period:****Logistics:** Data analysis**Description:** [purpose] For obtaining global environmental information by deep ice core drilling and analysis at NGRIP (75°N, 42°W), Greenland

[outline] All available data from the deep core should be collected, and the technical possibilities for the last 80 m drilling should be investigated for the NGRIP Steering Committee to decide if drilling to bedrock should be attempt in 2003.

Participants: None

Field activity of previous year**Invest. Area:** NGRIP Camp (Greenland)**Field Period:****Logistics:** Field Camp, C-130 Airplane**Description:** A deep ice coring and processing was continued down to a depth of about 3000 m where the drilling was quite difficult due to high pressure and temperature conditions. Firm air sampling was conducted as a associated project down to a depth of about 100 m.**Number of participants:** 4

* See "Japanese Arctic Research Directory in 2001" P. 113

Title: Ice core drilling on Mt. Logan, Yukon, Canada

Discipline: Glaciology

Field leader: Kumiko GOTO-AZUMA

Institution: National Institute of Polar Research

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Programme: Circum-Polar study on environmental record by ice core analyses in northern hemisphere

Principal Investigator: Kumiko GOTO-AZUMA

Proj. Period: 2000 - 2005

Institution: National Institute of Polar Research

Co-research Institution & Scientist (out of JPN): Geological Survey of Canada:
David Fisher, University of New Hampshire: Cameron Wake

Planned field activity

Invest. Area: Mt. Logan (Yukon, Canada)

Field Period: Apr. - Jun. 2002

Logistics: Fixed wing aircraft, Helicopter, Camping

Description: [purpose] Reconstruction of past climatic and environmental changes in the North Pacific Sector of the Arctic
[outline] Ice core drilling down to 220m depth. Radar echo sounding. Topographical survey. Snow pit studies.

Participants: Takayuki Shiraiwa, Syosaku Kanamori (Hokkaido University), Sumito Matoba (NIPR), Takahiro Segawa (Tokyo Institute of Technology), Tetsuhide Yamasaki

Field activity of previous year

Invest. Area: Mt. Logan, Yukon, Canada

Field Period:

Logistics: Fixed wing aircraft, Helicopter, Travelling on skis

Description: To investigate altitude dependence of snow accumulation rate and snow chemistry on Mt. Logan, snow pit studies were carried out at 6 different altitudes.

Number of participants: 2

* See "Japanese Arctic Research Directory in 2001" P. 112