Bio-Science

Title: Study of ecosystem at the deglaciated area in Ellesmere Island, Canadian Arctic

Discipline: Bio-Science
Field leader: Hiroshi KANDA
Institution: National Insititute of Polar Research
Address: 1-9-10 Kaga, Itabashi-ku, Tokyo 173-8515 JAPAN
TEL & E-mail: 03-3962-4761, hkanda@nipr.ac.jp
Programme: Study of tundra environmental change in the Arctic
Principal Investigator: Hiroshi KANDA
Proj. Period: 2001 - 2004
Institution: National Institute of Polar Research
Co-research Institution & Scientist (out of JPN): Univ. Tromso (Canada): J. Svoboda, UBC (Canada): Greg Henry, Environmental Conservation Branch (Canada): M. Svoboda

Planned field activity

Invest. Area: Ellesmere Island
Field Period: Jul. - Aug. 2002
Logistics: Twin Otter, Helicopter
Description: [purpose] To know how biological diversity in high Arctic region related to geomorphology and environmental factor.
Participants: Hiroshi Kanda, Takashi Ueno (NIPR), Takehiro Masuzawa (Shizuoka U.), Shinichi Sawaguchi (Niigata U.), Michael Svoboda (Environmental Conservation Branch, Canada)

Field activity of previous year

Invest. Area: Ellesmere Island, Axel Heiberg Island (Canada)
Field Period:
Logistics: Tent, Twin Otter, Helicopter
Description:
Number of participants: 5

* See "Japanese Arctic Research Directory in 2001" P. 88

B-2

Title: Successional process on vegetation occurred in the deglacial area, Spitsbergen, Svalbard

Discipline: Bio-Science
Field leader: Satoru KOJIMA
Institution: Tokyo Woman's Christian University
Address: 2-6-1 Zenhukuji, Suginami-ku, Tokyo 167-8585 JAPAN
TEL & E-mail: +81-3-5382-6410, kojima@twcu.ac.jp
Programme: Study of tundra environmental change in the Arctic
Principal Investigator: Hiroshi KANDA
Proj. Period: 2002 -
Institution: National Institute of Polar Research
Co-research Institution & Scientist (out of JPN): Univ. Tromso (Norway): A. Elvebakk

Planned field activity

Invest. Area: Ny-Ålesund, Spitsbergen
Field Period: Jul. 2002
Logistics: Observatory, Field research
Description: [purpose] To study vegetation change influenced by global environmental changes, distribution of flowering plants, mosses, and lichens are investigated with photographic and linetransect methods.
Participants: Satoru Kojima

Field activity of previous year

Invest. Area:
Field Period:
Logistics:
Description:
Number of participants:

Title: Biodiversity of snow mold fungi

Discipline: Bio-Science
Field leader: Tamotsu HOSHINO
Institution: National Institute of Advanced Industrial Science and Technology (AIST)
Address: 2-17-2-1 Tsukisamu-higashi, Toyohira-ku, Sapporo 062-8517 JAPAN
TEL & E-mail: +81-11-857-8475, tamotsu.hoshino@aist.go.jp
Programme: Biodiversity of snow mold fungi
Principal Investigator: Tamotsu HOSHINO
Proj. Period: 1996 - 2006
Institution: National Institute of Advanced Industrial Science and Technology (AIST), Hokkai Saikyo Co. Ltd.
Co-research Institution & Scientist (out of JPN): Main Botanical Garden, Russian Academy of Sciences: Oleg B. Tkacheko

Planned field activity

Invest. Area: Kamchatka, Magadan, Yakutsk, Ammassalik, Ittoqqortoormiit
Field Period: Jun., Aug. 2002
Logistics: Field research
Description: [purpose] Research of distribution of snow mold fungi in East Siberia, Russian Far East and East Greenland
Participants: Tamotsu Hoshino, Izumi Saito, Oleg B. Tkachenko

Field activity of previous year

Invest. Area:
Field Period:
Logistics:
Description:
Number of participants: 1

* See "Japanese Arctic Research Directory in 2001" P. 98

B-4

Title: Phenology and preformation in Arctic Polygonum viviparum

Discipline: Bio-Science
Field leader: Satomi NISHITANI
Institution: Department of Biology, Nippon Medical School
Address: 2-297-2 Kosugi, Nakahara-ku, Kawasaki 211-0063 JAPAN
TEL & E-mail: +81-44-733-3592, satomi-n@nms.ac.jp
Programme: Role of preformation under fluctuating environment
Principal Investigator: Satomi NISHITANI
Proj. Period: 2000 - 2003
Institution: Nippon Medical School
Co-research Institution & Scientist (out of JPN):

Planned field activity

Invest. Area: Ny-Ålesund (Svalbard, Norway)
Field Period: Jul., Aug. 2002
Logistics: Observatory, Field research
Description: [outline] (1) Observation of phenology at three plots along a snowmelt gradient
(2) Collection of bulbils for laboratory experiments
Participants: S. Nishitani

Field activity of previous year

Invest. Area: Ny-Ålesund, Svalbard, Norway
Field Period:
Logistics:
Description:
Number of participants: 1

* See "Japanese Arctic Research Directory in 2001" P. 97

Title: Isolation and identification of fungal species associated with dying moss in arctic regions.

Discipline: Bio-Science
Field leader: Motoaki TOJO
Institution: Graduate School of Agriculture and Biological Sciences, Osaka Prefecture University
Address: 1-1 Gakuennmachi, Sakai, Osaka 599-8531 JAPAN
TEL & E-mail: +81-72-254-9411, tojo@plant.osakafu-u.ac.jp
Programme: Isolation and identification of fungal species associated with dying moss in Polar Regions.
Principal Investigator: Motoaki TOJO
Proj. Period: 2001 - 2002
Institution: Graduate School of Agriculture and Biological Sciences, Osaka Prefecture University
Co-research Institution & Scientist (out of JPN):

Planned field activity

Invest. Area: Ny-Ålesund (Spitsbergen)
Field Period: Jul. - Aug. 2002
Logistics: Observatory, Field research
Description: [purpose] Isolation and identification of fungal species associated with dying moss in Ny-Ålesund.
[outline] Isolation and identification of fungal species from dying moss will be conducted in Ny-Ålesund area.
Participants: Akiho Hakoda (Graduate School of Agriculture and Biological Sciences, Osaka Prefecture University)

Field activity of previous year

Invest. Area:
Field Period:
Logistics:
Description:
Number of participants:

B-6

Title: Vegetation change due to warming in boreal-tundra region

Discipline: Bio-Science
Field leader: Tatsuo SWEDA
Institution: Faculty of Agriculture, Ehime University
Address: 3-5-7 Tarumi, Matsuyama 790-8566 JAPAN
TEL & E-mail: +81-89-946-9878, sweda@agr.ehime-u.ac.jp
Programme:
Principal Investigator:
Proj. Period:
Institution:
Co-research Institution & Scientist (out of JPN):

Planned field activity

Invest. Area: Dawson-Inuvik (Canada)
Field Period: Aug. 2002
Logistics:
Description: [outline] Preliminary survey for vegetation change study using airborne laser altimetry
Participants:

Field activity of previous year

Invest. Area:
Field Period:
Logistics:
Description:
Number of participants:

* See "Japanese Arctic Research Directory in 2001" P. 90