

Oceanography · Ocean Physics

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Title: Observation of sinking particles in the Mackenzie Shelf.

Discipline: Oceanography

Field leader: Makoto SAMPEI

Institution: National Institute of Polar Research

Address: 1-9-10 Kaga, Itabashi-ku, Tokyo 173-8515 JAPAN

TEL & E-mail: +81-3-3962-4569, sampei@nipr.ac.jp

Programme: Canadian Arctic Shelf Exchange Study (CASES)

Principal Investigator: Mitsuo FUKUCHI

Proj. Period: 2002 - 2004

Institution: National Institute of Polar Research

Co-research Institution & Scientist (out of JPN): Laval Univ.: L. Fortin, Washington Univ.: J. Deming, IOS DFO CANADA: H. Melling

Planned field activity

Invest. Area: Mackenzie Shelf

Field Period: Sep. 2002

Logistics: CCG icebreaker Sir Wilfrid Laurier

Description: [purpose] The central objective of the CASES is to understand and model the response of the Mackenzie Shelf ecosystem to atmospheric, oceanic and continental forcing of sea-ice cover variability.

[outline] We will make mooring deployments and biological, chemical, physical observations on board Canadian Coast Guard icebreakers Sir Wilfrid Laurier and Pierre Radisson.

Participants: Makoto Sampei (NIPR)

Field activity of previous year

Invest. Area:

Field Period:

Logistics:

Description:

Number of participants:

Title: Role of zooplankton in the CASES

Discipline: Oceanography

Field leader: Hiroshi HATTORI

Institution: Department of Marine Sciences and Technology, Hokkaido Tokai University

Address: 5 jo, Minamisawa, Minami-ku, Sapporo 005-8601 JAPAN

TEL & E-mail: +81-11-571-511, hattori@dm.htokai.ac.jp

Programme: Canadian Arctic Shelf Exchange Study (CASES)

Principal Investigator: Mitsuo FUKUCHI

Proj. Period: 2002 - 2004

Institution: National Institute of Polar Research

Co-research Institution & Scientist (out of JPN): Laval University (Canada): Louis Fortier

Planned field activity

Invest. Area: Canadian Arctic

Field Period: Sep. 2002

Logistics: CCG icebreaker Pierre Radisson

Description: [purpose] To estimate the role of zooplankton in the Arctic ecosystem.

[outline] In September, zooplankton abundance and their feeding experiments will be made during the cruises of Pierre Radisson, respectively.

Participants: Marc Ringuette

Field activity of previous year

Invest. Area:

Field Period:

Logistics:

Description:

Number of participants:

* See "Japanese Arctic Research Directory in 2001" P. 79

Title: Ice Climatology in the Baltic Sea**Discipline:** Oceanography**Field leader:** Kunio SHIRASAWA**Institution:** Sea Ice Research Laboratory, Hokkaido University**Address:** 6-4-10 Minamigaoka, Mombetsu, Hokkaido 094-0013 JAPAN**TEL & E-mail:** +81-1582-3-3722, kunio@pop.lowtem.hokudai.ac.jp**Programme:** Ice Climatology in the Okhotsk and Baltic Seas - Mechanism of Environmental Variability in the Arctic**Principal Investigator:** Kunio SHIRASAWA**Proj. Period:** 1998 -**Institution:** Sea Ice Research Laboratory, Hokkaido University**Co-research Institution & Scientist (out of JPN):** University of Helsinki (Finland): M. Lepparanta, Tallin Technical University (Estonia): M. Granskog, A. Lindfors, J. Ehn, K. Rasmus, T. Martima

Planned field activity**Invest. Area:** Gulf of Finland, Baltic Sea**Field Period:** Dec. 2002 - Aug. 2003**Logistics:** Platform, Snowmobile, Boat, Hydrocopter**Description:** [purpose] To conduct field investigations to track the evolving properties of land-fast ice sheets and to monitor the thermal regime during the growth through melt seasons.

[outline] To conduct field investigations to track the evolving properties of land-fast ice sheets and to monitor the thermal regime during the growth through melt seasons; above-, through- and under-ice measurements in the Gulf of Finland, Baltic Sea and some lake in southern Finland.

Participants: K. Shirasawa, M. Ishikawa, T. Takatsuka, M. Lepparanta, M. Granskog, A. Lindfors, J. Ehn, K. Rasmus

Field activity of previous year**Invest. Area:** Gulf of Finland, Baltic Sea**Field Period:** Apr. 2001 - Mar. 2002**Logistics:** Platform, Snowmobile, Boat, Hydrocopter**Description:** To conduct field investigations to track the evolving properties of land-fast ice sheets and to monitor the thermal regime during the growth through melt seasons; above-, through- and under-ice measurements in the Gulf of Finland, Baltic Sea and some lake in southern Finland.**Number of participants:** 8

* See "Japanese Arctic Research Directory in 2001" P. 78

Title: North Pole Environmental Observaory

Discipline: Ocean Physics

Field leader: Kiyoshi HATAKEYAMA

Institution: Japan Marine Science & Technology Center

Address: 2-15 Natsushima, Yokosuka 237-0061 JAPAN

TEL & E-mail: +81-468-67-3876, hatakeyamak@jamstec.go.jp

Programme: North Pole Environmental Observaory

Principal Investigator: Takatoshi TAKIZAWA

Proj. Period: 2000 - 2004

Institution: Japan Marine Science & Technology Center

Co-research Institution & Scientist (out of JPN): UW: Jamie Morison, Knut Aagaard, PMEL: Jim Overland

Planned field activity

Invest. Area: North Pole

Field Period: Apr. 2002

Logistics: Twin Otter & Ice Camp

Description: [purpose] Environmental change in the Eastern Arctic Ocean

[outline] Installation of ocean buoy (J-CAD), XCTD hydrographic observation

Participants: Takashi Kikuchi, Hirokatsu Uno

Field activity of previous year

Invest. Area: North Pole

Field Period: Apr. 2001

Logistics: Twin Otter & Ice camp

Description: Installation of ocean buoy (J-CAD), XCTD hydrographic observation

Number of participants: 2

* See "Japanese Arctic Research Directory in 2001" P. 81

Title: Observation in the Beaufort Sea (1)

Discipline: Ocean Physics

Field leader: Kiyoshi HATAKEYAMA

Institution: Japan Marine Science & Technology Center

Address: 2-15 Natsushima, Yokosuka 237-0061 JAPAN

TEL & E-mail: +81-468-67-3876, hatakeyama@jamstec.go.jp

Programme: Observation in the Beaufort Sea

Principal Investigator: Takatoshi TAKIZAWA

Proj. Period: 1998 - 1994

Institution: Japan Marine Science & Technology Center

Co-research Institution & Scientist (out of JPN): DFO/IOS: Eddy Carmack, Fiona Mclaughlin, Humfrey Melling

Planned field activity

Invest. Area: Beaufort Sea

Field Period: Sep. 2002

Logistics: Ice breaker (CCGS Sir Wilfrid Laurier)

Description: [purpose] Shelf-basin interaction, water mass formation and spreading, Long-term monitoring

[outline] Mooring operation, XCTD hydrographic observation

Participants: Takashi Kikuchi, Hirokatsu Uno (JAMSTEC)

Field activity of previous year

Invest. Area: Beaufort Sea

Field Period: Jul. 2001

Logistics: Ice breaker (CCGS Sir Wilfrid Laurier)

Description: Mooring operation, XCTD hydrographic observation

Number of participants: 2

* See "Japanese Arctic Research Directory in 2001" P. 82-83

Title: Observation in the Beaufort Sea (2)

Discipline: Ocean Physics

Field leader: Koji SHIMADA

Institution: Japan Marine Science & Technology Center

Address: 2-15 Natsushima, Yokosuka 237-0061 JAPAN

TEL & E-mail: +81-468-67-9485, shimadak@jamstec.go.jp

Programme: Observation in the Beaufort Sea

Principal Investigator: Takatoshi TAKIZAWA

Proj. Period: 1998 - 2000

Institution: Japan Marine Science & Technology Center

Co-research Institution & Scientist (out of JPN): DFO/IOS: Eddy Carmack, Fiona McLaughlin, Humfrey Melling

Planned field activity

Invest. Area: Beaufort Sea, Baffin Bay

Field Period: Jul. - Sep. 2002

Logistics: Ice breaker (CCGS Louis S. St-Laurent)

Description: [purpose] Shelf-basin interaction, water mass formation and spreading, Long-term monitoring, Atlantic water circulation
[outline] CTD, water sampling, Mooring operation, Installation of ocean buoy (J-CAD), XCTD

Participants: Koji Shimada, Hirokatsu Uno, Hiroshi Sumata (JAMSTEC)

Field activity of previous year

Invest. Area: Beaufort Sea

Field Period: Sep. 2001

Logistics: Ice breaker (CCGS Louis S. St-Laurent)

Description: CTD, water sampling, Mooring operation, XCTD

Number of participants: 3

* See "Japanese Arctic Research Directory in 2001" P. 82-83

Title: Observation in the Beaufort Sea (3)**Discipline:** Ocean Physics**Field leader:** Koji SHIMADA**Institution:** Japan Marine Science & Technology Center**Address:** 2-15 Natsushima, Yokosuka 237-0061 JAPAN**TEL & E-mail:** +81-468-67-9485, shimadak@jamstec.go.jp**Programme:** Observation in the Beaufort Sea**Principal Investigator:** Takatoshi TAKIZAWA**Proj. Period:** 1998 - 2004**Institution:** Japan Marine Science & Technology Center**Co-research Institution & Scientist (out of JPN):** DFO/IOS: Eddy Carmack, Fiona McLaughlin, Humfrey Melling

Planned field activity**Invest. Area:** Chukchi, Beaufort Sea**Field Period:** Sep. 2002**Logistics:** R/V Mirai**Description:** (purpose) Shelf-basin interaction, water mass formation and spreading, Atlantic water circulation

(outline) CTD, water sampling, XCTD

Participants: Koji Shimada, Shigeto Nishino, Motoyo Itou (JAMSTEC)

Field activity of previous year**Invest. Area:** Beaufort Sea**Field Period:** Sep. 2001**Logistics:** Ice breaker (CCGS Sir Wilfrid Laurier)**Description:** Shelf-basin interaction, water mass formation and spreading, Atlantic water circulation: CTD, water sampling, XCTD**Number of participants:** 3

* See "Japanese Arctic Research Directory in 2001" P. 82-83