



Ice Draft and Ice Velocity Data in the Beaufort Sea, 1990-2003

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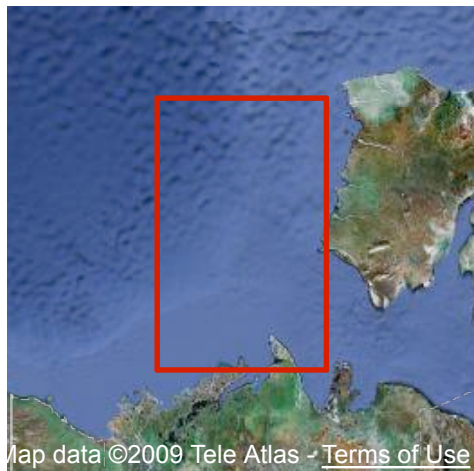
Entry ID

G02177

Summary

This data set provides measurement of sea ice draft (m) and the movement of sea ice (cm/s) over the continental shelf of the Eastern Beaufort Sea. The data set spans April 1990 to September 2003. The data set was acquired to assist in determining the character and recurrence of ice features hazardous to offshore industrial activity, specifically for the exploitation of hydrocarbon reserves and the impact of climate variability and change on the Beaufort Sea ice regime. Observations were made using two types of self-contained Upward Looking Sonar (ULS) moored near the sea floor: an Ice Profiling Sonar (IPS) used to obtain ice draft data and an Acoustic Doppler Current Profiler (ADCP) used to obtain the ice velocity data. The data are provided in ASCII text format and are available via FTP.

Geographic Coverage



Spatial Coordinates:

N: 74.152° **S:** 70.083° **E:** -125.577° **W:** -133.828°

Data Set Citation

Dataset Creator: H. Melling

Dataset Title: Ice Draft and Ice Velocity Data in the Beaufort Sea, 1990-2003

Dataset Release Date: 2008-09-01

Dataset Release Place: Boulder, Colorado USA

Metadata Views

DIF Text-Only

Directory Interchange Format (DIF) in plain text

DIF XML

Directory Interchange Format (DIF) in Extensible Markup Language (XML)

FGDC HTML

U.S. Federal Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata (CSDGM)

Dataset Publisher: National Snow and Ice Data Center (NSIDC)

Online Resource: <http://nsidc.org/data/g02177.html>

Temporal Coverage

Start Date: 1990-04-01

Stop Date: 2003-09-30

Location Keywords

- Ocean ▶ Arctic Ocean ▶ Beaufort Sea

Science Keywords

- Cryosphere ▶ Sea Ice ▶ Ice Depth/Thickness
- Cryosphere ▶ Snow/Ice ▶ Ice Velocity
- Oceans ▶ Sea Ice ▶ Ice Depth/Thickness
- Terrestrial Hydrosphere ▶ Snow/Ice ▶ Ice Velocity

Ancillary Keywords

- Sea Ice
- Sea Ice Draft
- Sea Ice Drift
- Sea Ice Velocity

Instrument

- ADCP ▶ Acoustic Doppler Current Profiler
- UPWARD LOOKING SONAR

Project

- NOAA/NASA PATHFINDER ▶ NOAA/NASA Pathfinder Program

Data Set Progress

COMPLETE

Data Center

National Snow and Ice Data Center

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Distribution

Distribution Media: FTP

Distribution Size: 4.1 KB - 50 MB

Distribution Format: ASCII text

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CANADA

Related URL

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Moored Upward Looking Sonar Data

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AWI Moored ULS Data, Weddell Sea (1990-1998)

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AWI Moored ULS Data, Greenland Sea and Fram Strait, 1991-2002

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Submarine Upward Looking Sonar Ice Draft Profile Data and Statistics

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The Environmental Working Group (EWG) Joint U.S.-Russian Arctic Sea Ice Atlas

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Metadata Name and Version

Metadata Name: [CEOS IDN DIF](#)

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Creation and Review Dates

DIF Creation Date: 2008-09-24

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