

Arctic Research



Permafrost
Climatology
Oceanography
Microbial Ecology

Exhibition of rare Inuit art on view through Dec. 14

10 a.m., Nov. 20, 2003--"Land of Ice, Hearts of Fire: Inuit Art and Culture," an exhibition of rare Canadian Inuit drawings continues through Dec. 14 in the University Gallery, located on the second floor of Old College.

The exhibition displays a portion of the major gifts of Inuit drawings from the Frederick and Lucy S. Herman Native American Art Collection and closely related artifacts and archival materials from the Mabel and Harley McKeague Collection of Alaskan Inuit Art. Other Inuit artworks, including sculptures, prints, and tapestries recently donated to the University Gallery collection also on view.

Dr. Cort Willmott

Global climate and climate change:
provide data and information needs of
seasonal to inter-annual scales to climate
science communities

Hydroclimate of Arctic Land Surfaces:
investigate the hydroclimatology of the
"...Pan-Arctic Drainage System."



Etah, Greenland, 2003



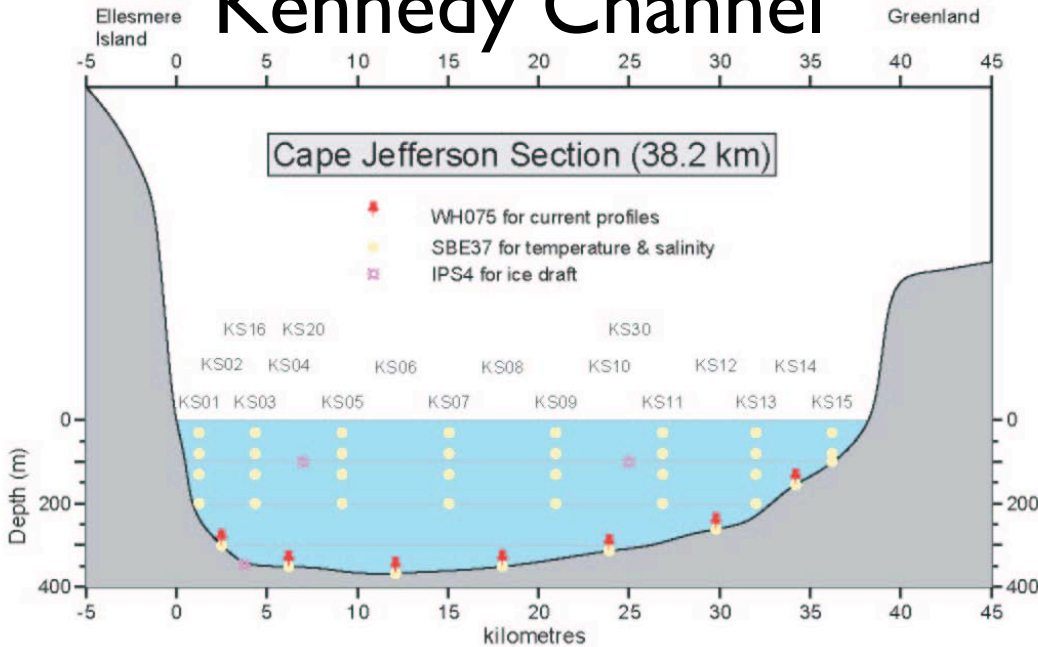
Petermann Glacier ice floe, Greenland, 2003

Dr. Brian Hanson

Tidewater glaciers: modeling calving

(Dr. Andreas Münchow)

Kennedy Channel



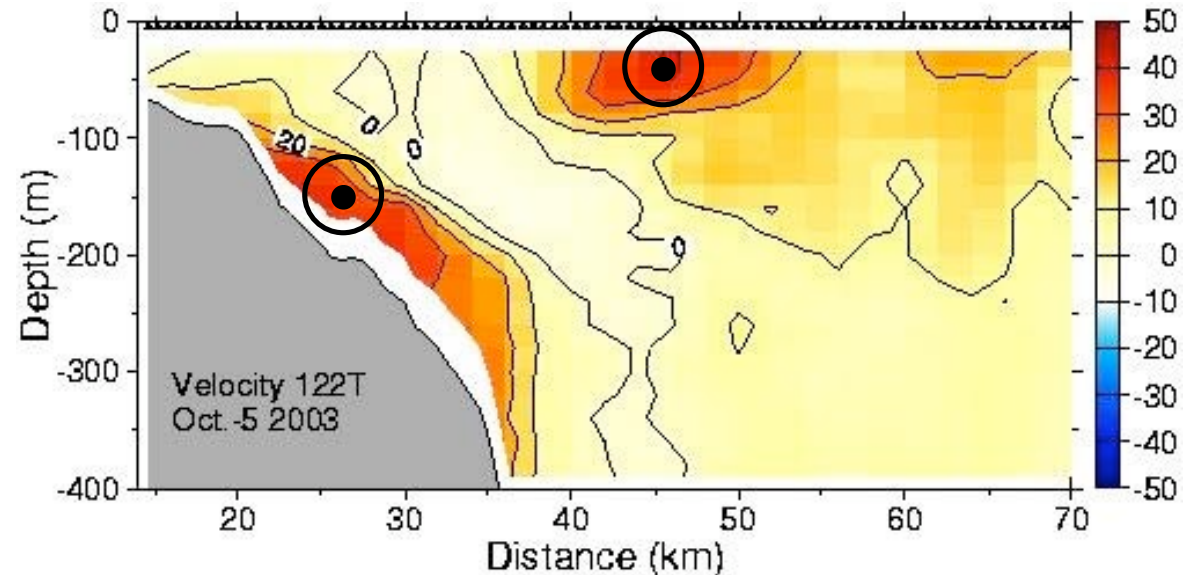
Ocean Moorings: Canadian Archipelago Throughflow 2003-2007

measure freshwater fluxes
measure sealevel change
diagnose ocean physics

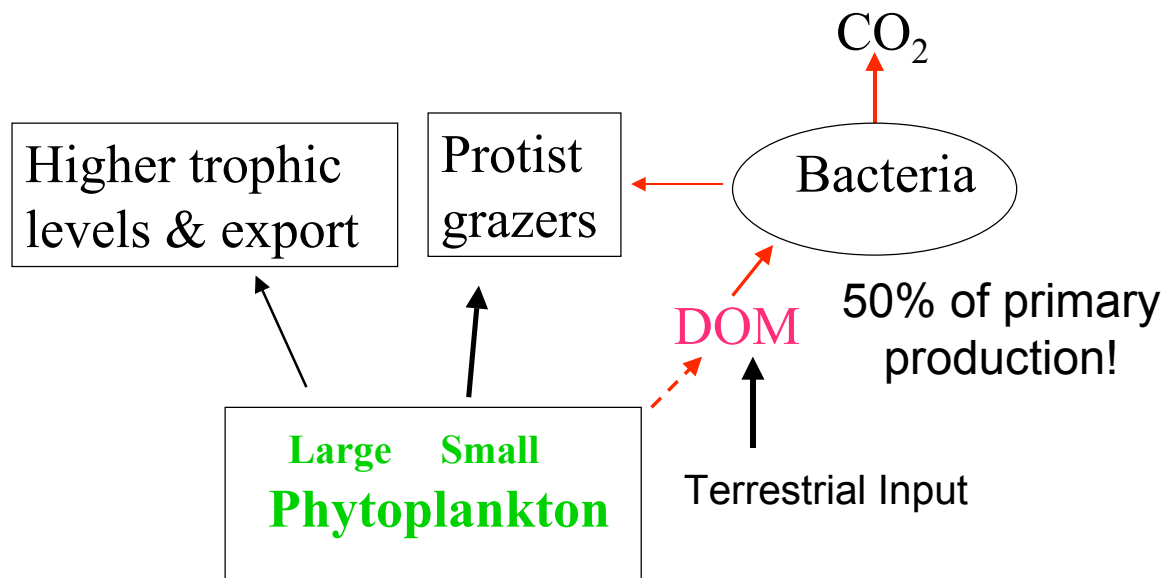
Ocean Surveys: Shelf-Basin Interactions 2002-2006

measure synoptic velocity fields
measure synoptic hydrography
evaluate $F=m*a$

Beaufort Sea



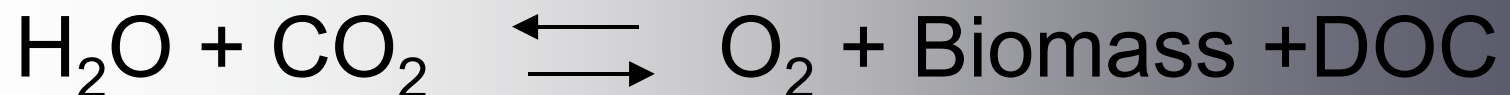
Fate of Primary Production and
Organic Material in the Arctic



What we measure:

- Net oxygen production (light)
- Respiration (O₂ use in dark)
- Bacterial biomass production
- Bacterial biomass
- Bacterial community structure
- Control of bacterial growth rates

Respiration



Primary production