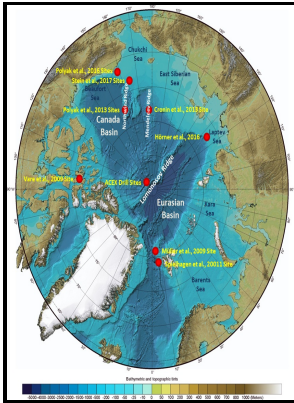


# Satellite-based study of sea ice dynamics in the Central Canadian Arctic Archipelago

Institute of Ocean Sciences, Patricia Bay - Sea ice variations in the central Canadian Arctic Archipelago during the Holocene



Description: -

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Bible. -- O.T. -- Psalms.

Sea ice drift -- Arctic regions. satellite-based study of sea ice dynamics in the Central Canadian Arctic Archipelago

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Contractor report series (Institute of Ocean Sciences, Patricia Bay) -- no. 77-4.

Contractor report series -- 77-4. satellite-based study of sea ice dynamics in the Central Canadian Arctic Archipelago

Notes: Bibliography: p. 105.

This edition was published in 1977



Filesize: 27.71 MB

Tags: #Consequences #of #change #and #variability #in #sea #ice #on #marine #ecosystem #and #biogeochemical #processes #during #the #2007

## The impact of rising sea temperatures on an Arctic top predator, the narwhal

For example, John Hughes Clarke University of New Brunswick, pers. Fluvial and hydrothermal input of manganese into the Arctic Ocean.

## Sea ice variations in the central Canadian Arctic Archipelago during the Holocene

However, in the interest of further research, we conjecture that snow load before melt onset may be crucial in determining the fate of melt ponds not only concerning their saline status, but also relatively to their potential to produce DMS. This can be done by altering the surface albedo of the sea ice or forcing sea ice melt through increased longwave radiative flux. Molnár PK, Derocher AE, Thiemann GW, Lewis MA 2010 Predicting survival, reproduction and abundance of polar bears under climate change.

## Arctic Oceanography

A global ocean inventory of anthropogenic mercury based on water column measurements. Results from this study agree: the CAA region remains ice covered by midcentury, with little change in wintertime ice extent or ice concentrations.

## Polynyas and tidal currents in the Canadian Arctic Archipelago.

They reveal negligible DMS concentrations in MYI ice melt ponds in the central Arctic Ocean and concentrations up to 2.

## A satellite

Canadian Technical Report of Hydrography and Ocean Sciences 221. In ON there is a 5%—10% decrease in cloud cover near the surface and a 5%—15% increase between 500 and 2000 m. There will be no hardware store should an instrument break.

## **Sea ice variations in the central Canadian Arctic Archipelago during the Holocene**

Recent studies of reanalysis data, such as , , , and , have suggested that anomalously low Arctic sea ice in autumn precedes a negative phase of the North Atlantic Oscillation—Arctic Oscillation NAO—AO in winter. They are related to the CO<sub>2</sub> flux  $F$  through the bulk formulation:  $2$  with subscripts  $sw$  and  $a$  representing the surface sea water and air, respectively. The difference is primarily a result of model underestimation after about 1995.

## **Arctic polar vortex splitting in early January: The role of Arctic sea ice loss**

Antarctic sea ice salinity is higher by 0.

## **Atmospheric Impact of Arctic Sea Ice Loss in a Coupled Ocean**

The estimation of the importance of melt ponds as net sources of DMS for the atmosphere will require an accurate evaluation of their spatial and temporal coverage, a better understanding of gas exchange between small fetch melt ponds and the atmosphere and its sensitivity to changing wind velocity, as well as comprehensive measurements of DMS within melt ponds at large, both FYI and MYI, and particularly at higher latitudes. Quinn and Bates, 2011; Green and Hatton, 2014. In the simulation, the Amundsen Gulf gate has the largest transports and the most seasonal variability: it experiences perennial ice in some summers, but not others, and it is usually mobile during winter, but can be landfast in some years.

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