CEOS Initiatives 2018/19





SERF Projects (Winter 2018/19)

Projects:

- i. Ice ridge experiment
- ii. Stable isotope experiment
- iii. Sand/sediment in ice experiment
- iv. Mercury exchange experiment
- v. Methodological development
- vi. Oil in ice





Southampton Island Marine Ecosystem Project

Sampling: water chemistry, marine plants, sediment, zooplankton, fish

Cruise – Aug 8-24, 2018

Cruise – Aug 5-29, 2019

Mooring
CTD line
Sampling station
Naujust

Foxe
Basin

Ceral
Harbor
Hudson Bay

Hudson Bay



Coral Harbour Ocean Observation and Sea Ice Experiment (CHOOSE)

Spring 2019

Undertook sea ice study to examine sea ice production and winter ocean conditions



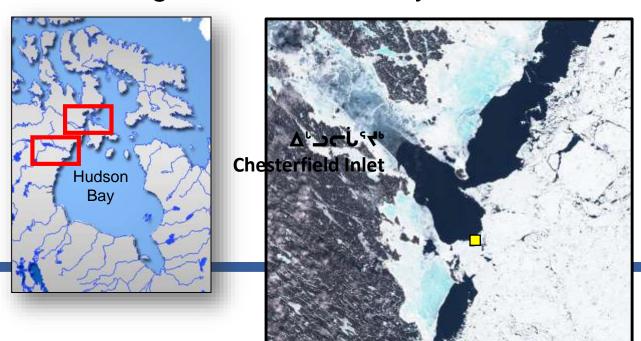
GENICE 2018-19

- Microbial Genomics for Oil Spill Preparedness in the Canadian Arctic
- Sampling early September
 - Water properties and chemistry, sediments, benthic



Community-Driven Sea Ice and Ocean Research Project

 Objective: compare oceanography of the northwest to the southeast region of Hudson Bay





Freshwater-Marine Coupling in Hudson Bay

 Improve understanding of how river runoff and seawater upwelling and vertical mixing and sea ice cycle interact to modify water

masses and circulation







Hudson Bav

BAYSYS (Hudson Bay System Study)

- Objective: influence of freshwater influence on HB marine and coastal systems
- Separate climate change effects from those of regulation of freshwater on physical, biological and biogeochemical conditions in HB
- April 2015-September 2019 (6 month extension)



Pikialasorsuaq Partnership

- Commission recommendation: Inuit-led monitoring program
- Working with Oceans North and ICC; CFI grant (19/20)



C-150 Chair - MOSAiC

- Senior Canada-150 Research Chair in Climate Forcing of Sea Ice
- MOSAiC focus: continually monitor changes in the snow covered sea ice throughout every season; use of remote sensing





CERC -

 Canada Excellence Research Chair in Arctic Ice, Freshwater-Marine Coupling and Climate Change



Other Projects

- Keeyask GHG Tower Flux Program
- Manitoba Great Lakes Project
- Canadian Watershed Information Network
- Outreach: Expedition Churchill, Arctic Science Day, etc.





University of Manitoba

