

SHIPPING THROUGH THE CANADIAN ARCTIC

Summer 2020

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ARCTIC OPERATIONS





MV ARCTIC AND MV NUNAVIK AT DECEPTION

BAY







MV UMIAK I AT VOISEY'S BAY







BAFFINLAND









RED DOG







ICE SERVICES





ICE SERVICES: EXPERTS IN SEA ICE AND REMOTE SENSING

- Specialists in ice analysis and icerelated navigation information
- Our mandates:
 - Ice monitoring and operational support
 - Ice studies for future shipping projects
 - Research and development
 - IceNav





SUPPORT TO OUR ICEBREAKERS

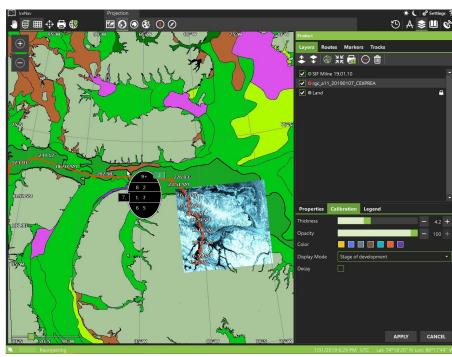


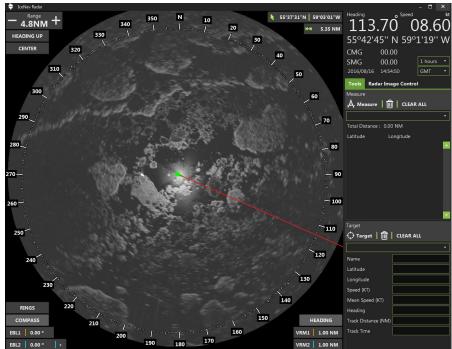




IceNav is a shipboard navigation system, designed for vessels operating in ice-covered waters worldwide

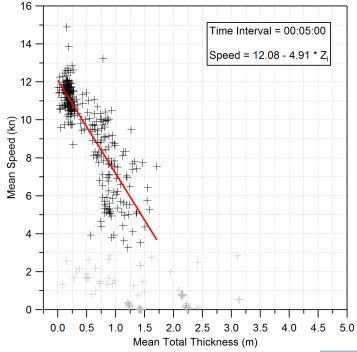
- Initially created in the mid 1990's to fulfill the needs of Fednav's Arctic operations
- Now a commercial product that has been completely redeveloped in recent years
- Used on cruise ships, icebreakers, Coast Guard icebreaker, cargo vessels, and as a shore-based tool for operations support

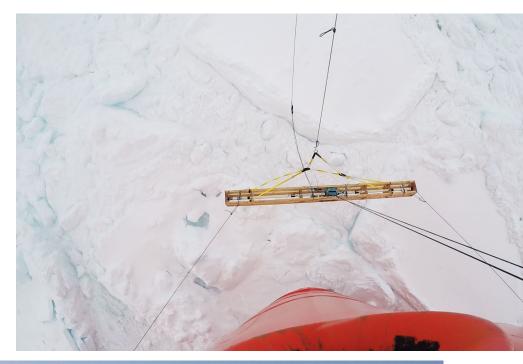






RESEARCH











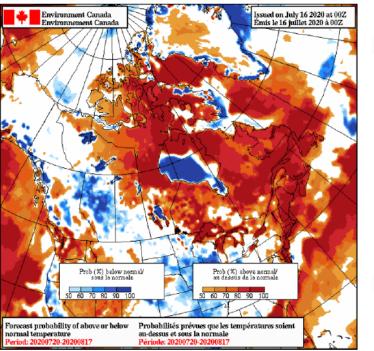
SUPPORT TO SUMMER OPERATIONS

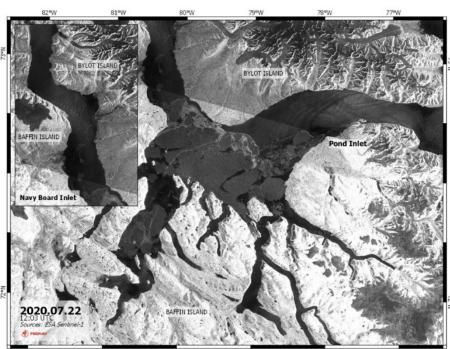


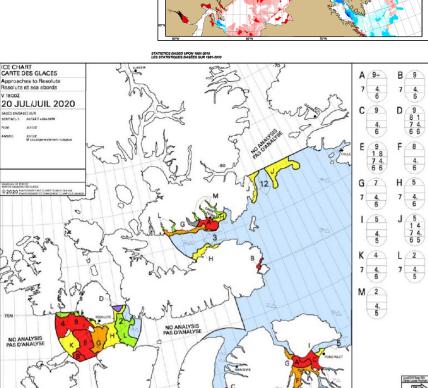


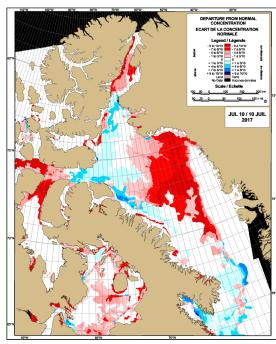
SEASONAL FORECASTING OUTLOOKS

- Current and recent conditions (trends and anomalies)
- Forecasts of ice conditions
- Forecasts of air temperatures and winds
- AIRSS/POLARIS regulations and ship ice class taken into consideration









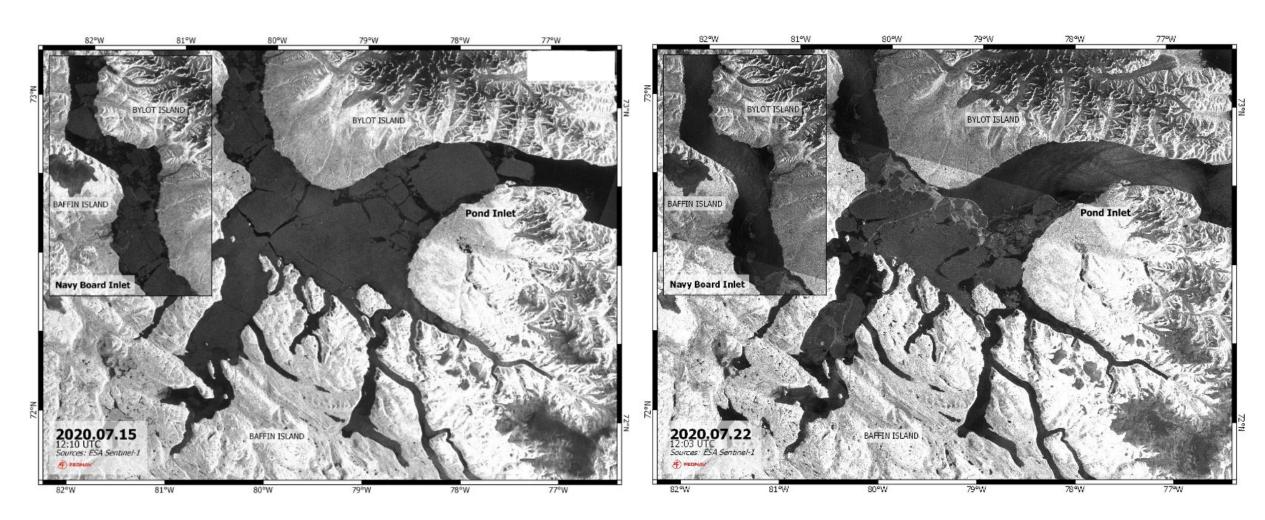


SUMMER 2020



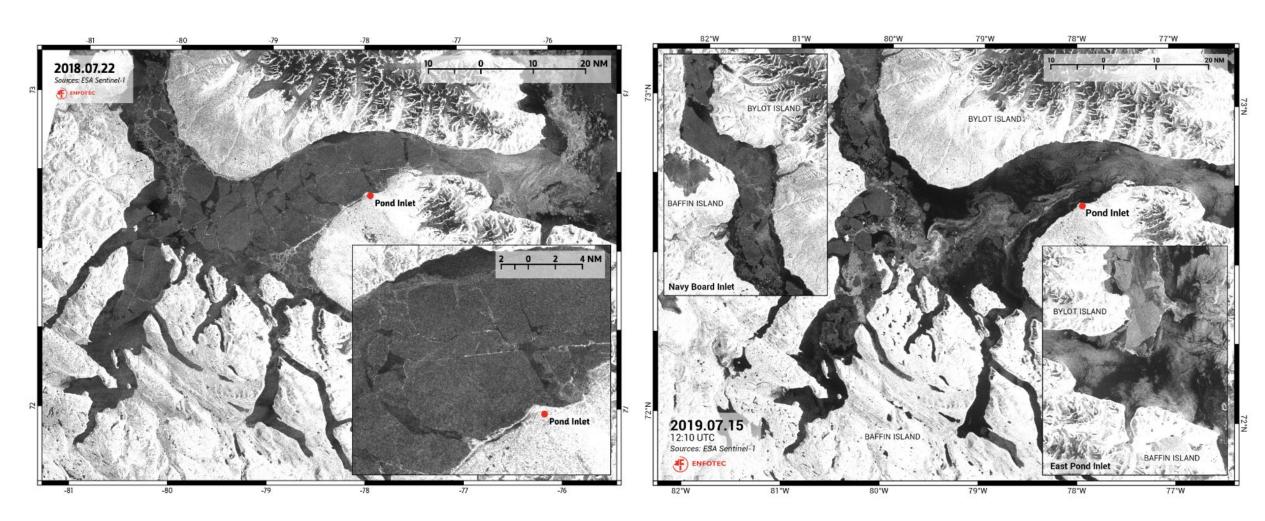


SEA ICE BREAK UP NEAR POND INLET 2020





SEA ICE BREAK UP NEAR POND INLET 2019/18





FALL 2020





DELAYED FREEZE UP NEAR POND INLET 2020

