



U.S. National Ice Center



USN

USCG

NOAA

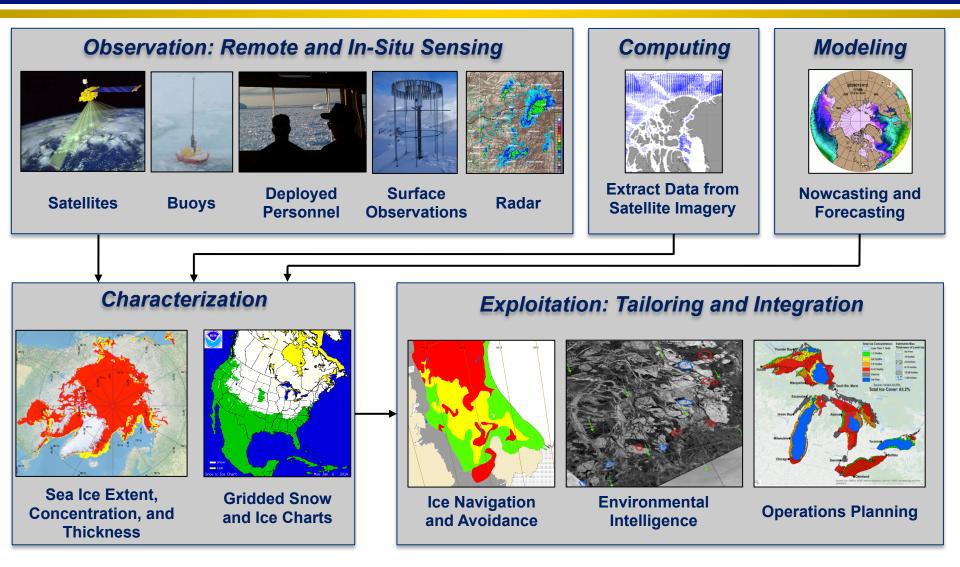
Director: CDR Heather Quilenderino, USN Deputy Director: Mr. Kevin Berberich, NOAA Presented By: LT Bryan Brasher, NOAA

22 June 2020



Domain Awareness

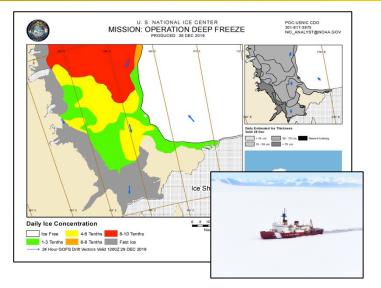






USNIC Tailored Support Program





Products & Services:

- Graphical and GIS support
 - Current conditions
 - 48-hour forecast
 - 45-day outlook
- Annotated satellite imagery
- Spatial analysis
- Embarked analysts

Tailored Support Program provides critical situational awareness to U.S. interests (national defense, resupply, R&D) operating in or near sea ice.

USNIC Requirements:

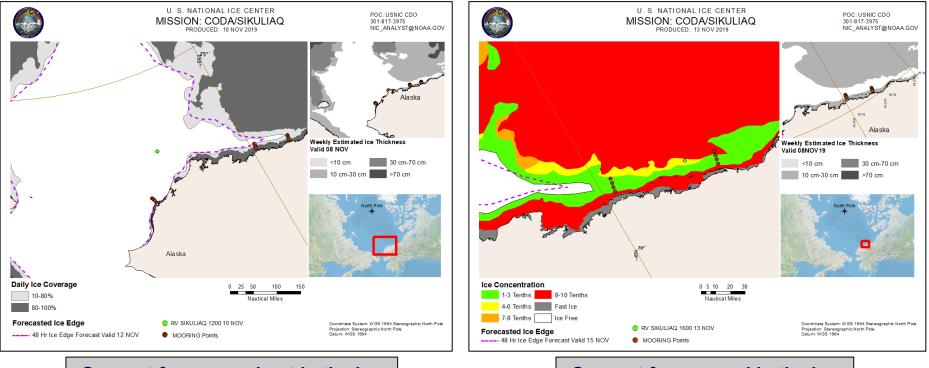
- Submit Request For Support
- Update USNIC on any mission changes (for imagery ordering)

Embarked Analysts Requirements:

- Satellite data subscription (CERTUS)
- Travel costs (if possible)



Graphical Tailored Support



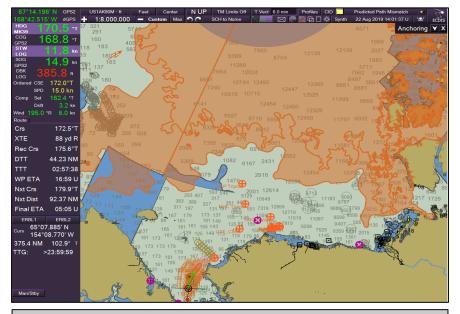
Support for a vessel not in the ice

Support for a vessel in the ice

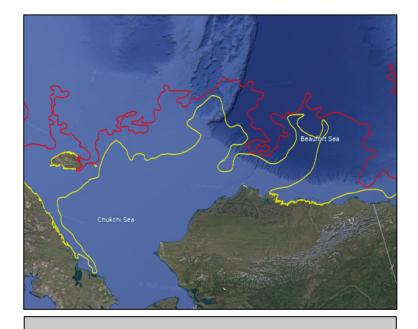


GIS Format Applications





MIZ and Ice Edge shapefiles on USCGC HEALY (WAGB-20) ECDIS



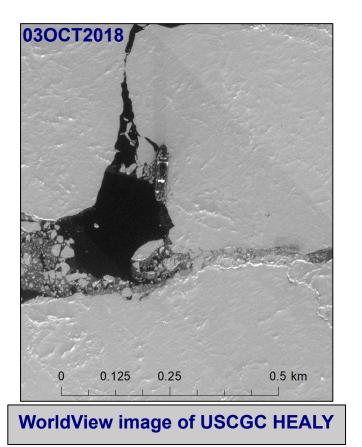
MIZ and Ice Edge KML on Google Earth

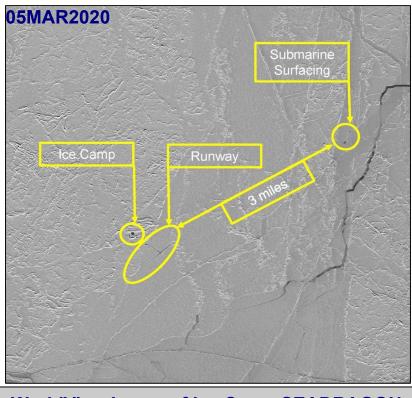
USNIC can provide products in common GIS file formats



Imagery Sources







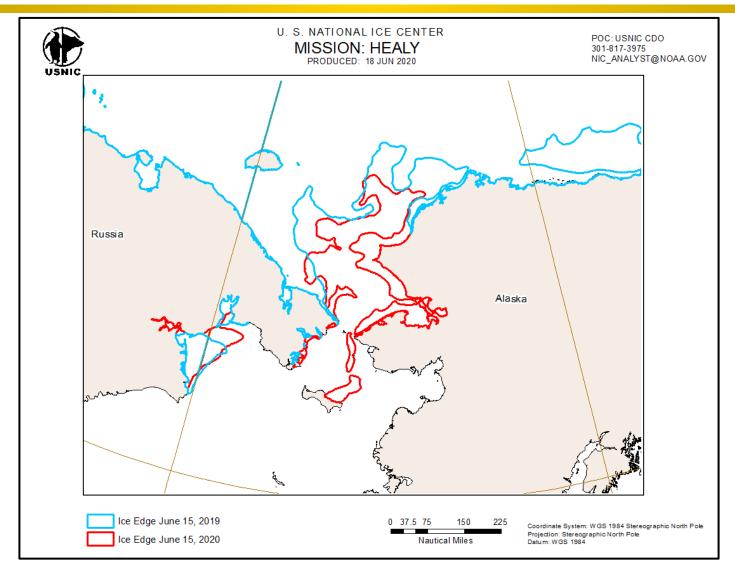
WorldView Image of Ice Camp SEADRAGON

Through various partnerships, USNIC *may* be able to provide high resolution optical imagery



15 June Ice Edge Comparison



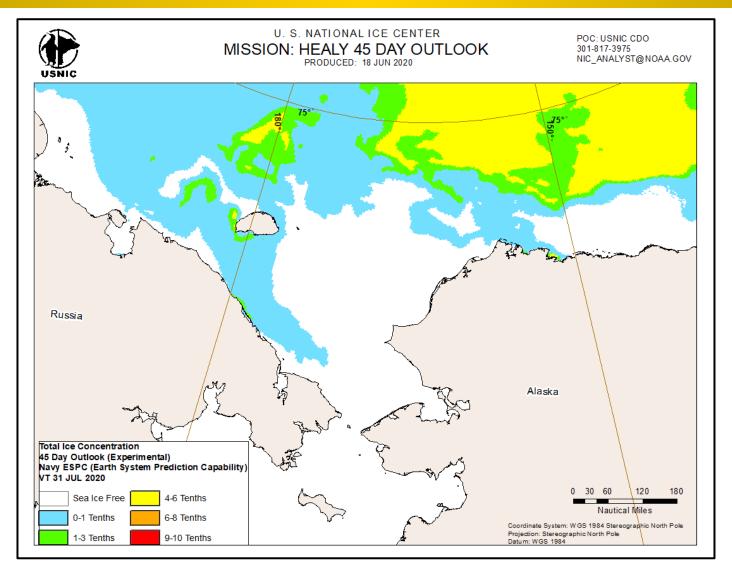


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45-Day Ice Concentration Outlook

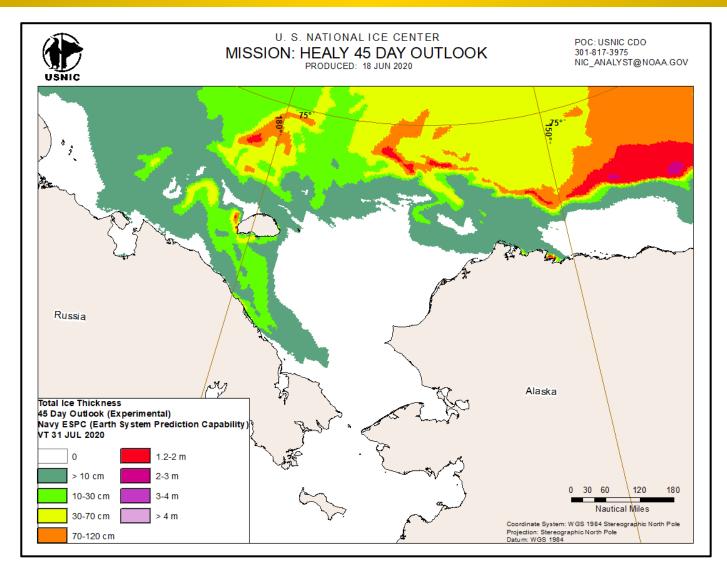






45-Day Ice Thickness Outlook



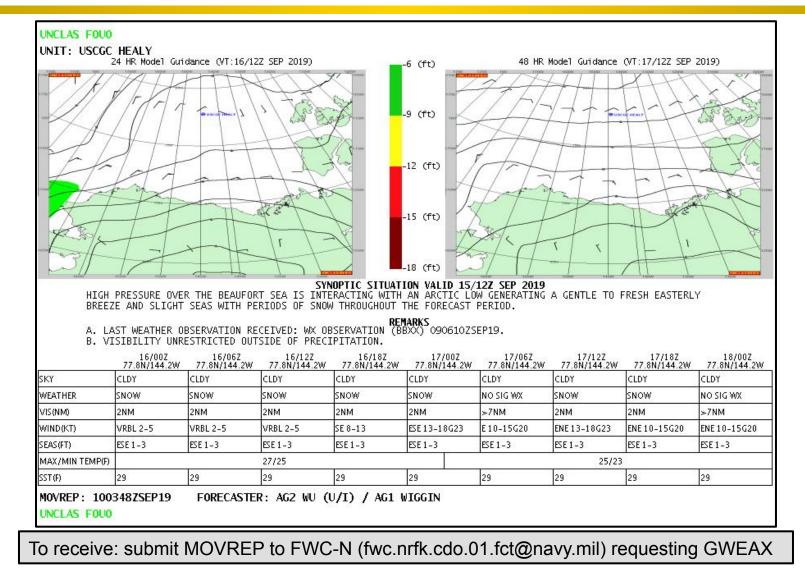


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FWC-N Weather Support





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Questions and Comments





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