Voyage Planning in Polar Waters

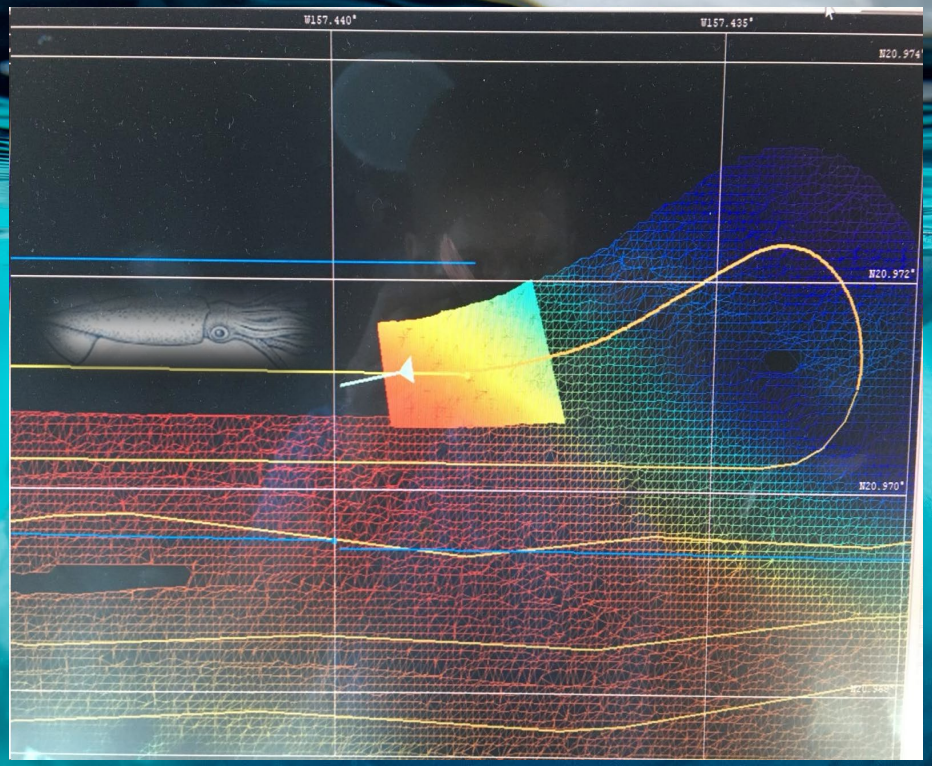
VOYAGE PLANNING

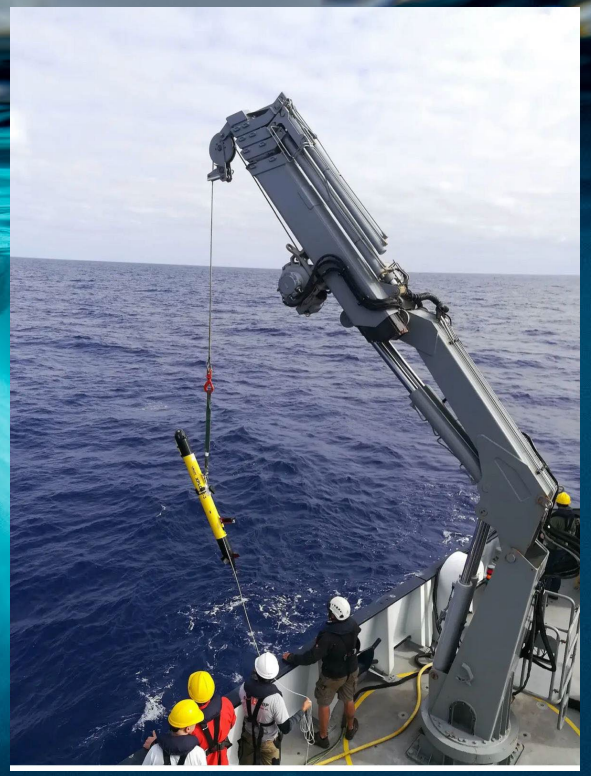
Introduction	My experience at sea, with a limit on sea stories. A students approach to exploration.
Margins of the Charts	Adapting to limited chart coverage. Risk assessments
Weather Routing	Making it up as we go along.
Contingency Planning	Search and Rescue and Sea Monsters
Crew Well Being	Managing expectations and life onboard.

Searching and Beardless

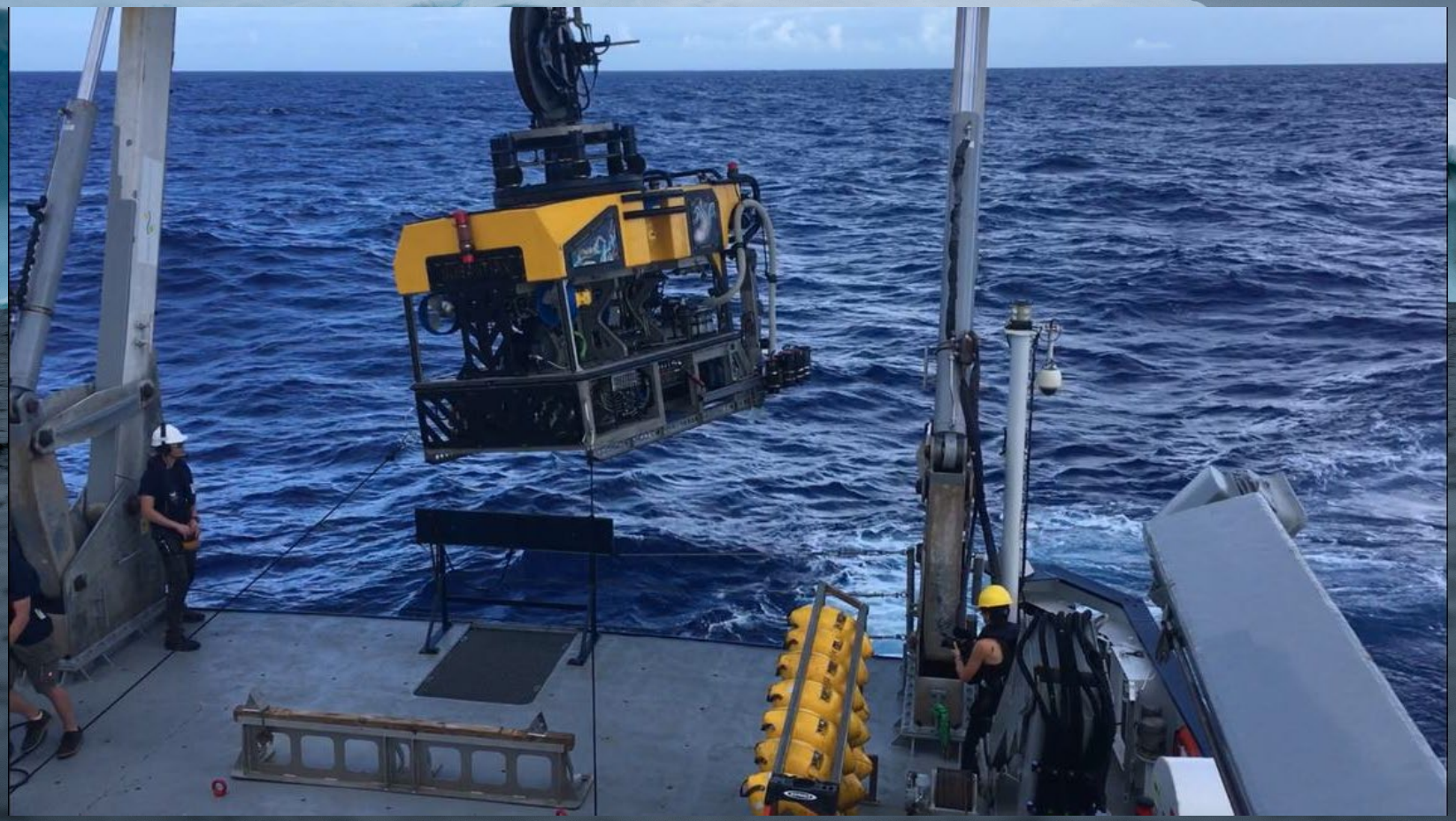

FALKOR

Filling in the Margins of the Charts

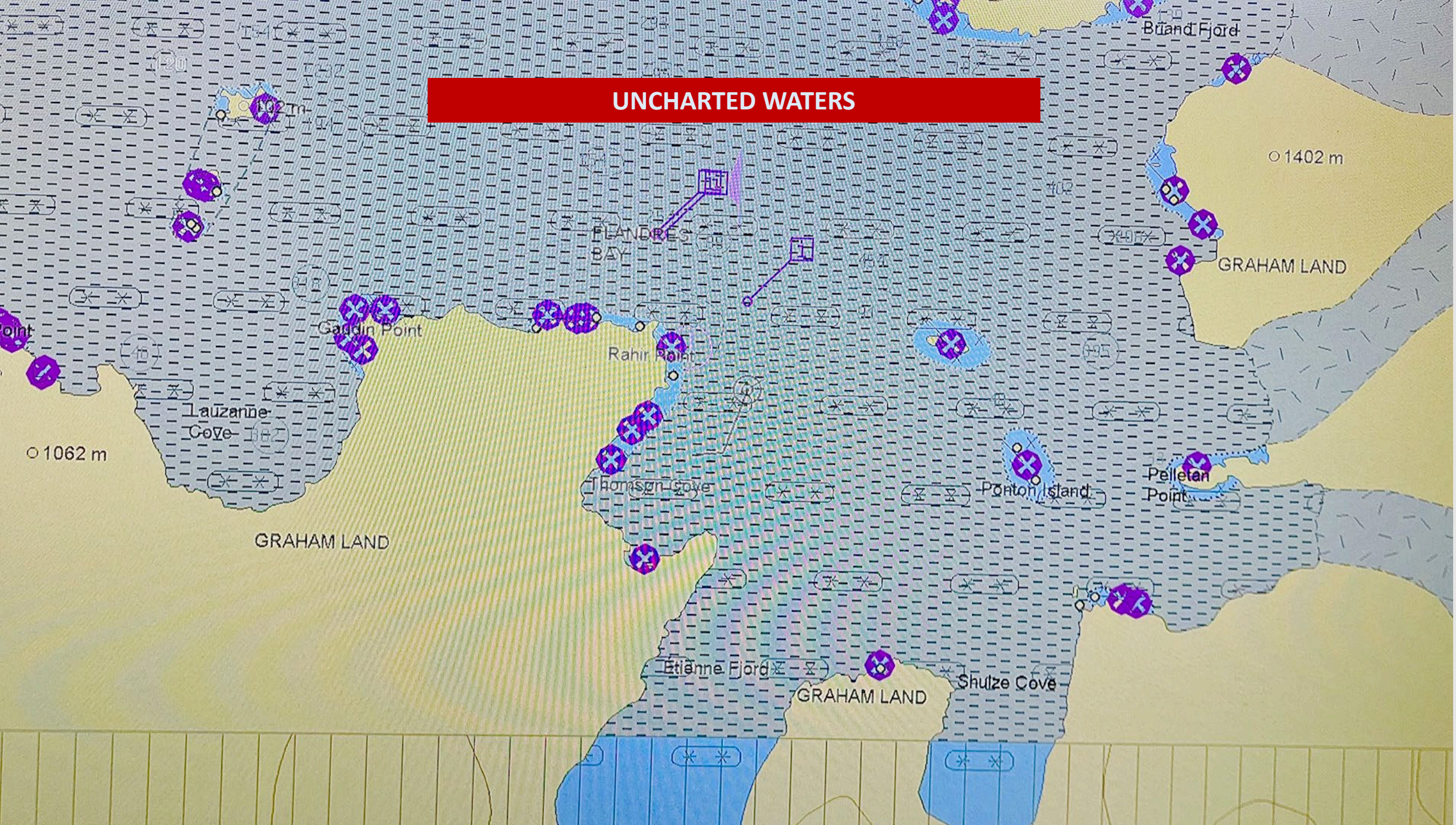


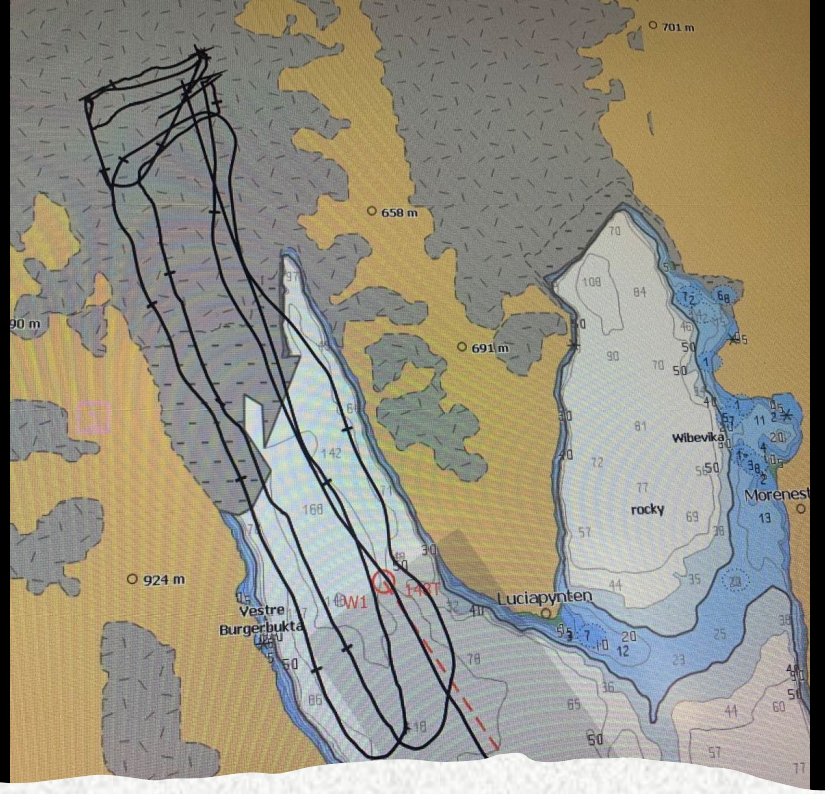


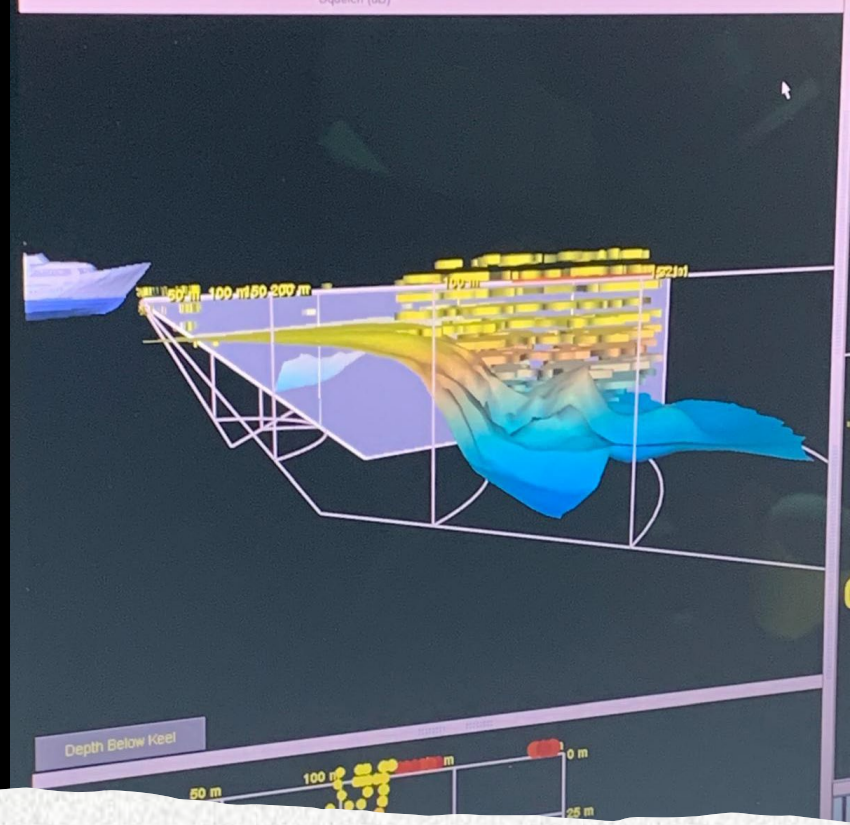
Sub Sea Operations



Where the Ice Meets the Sea

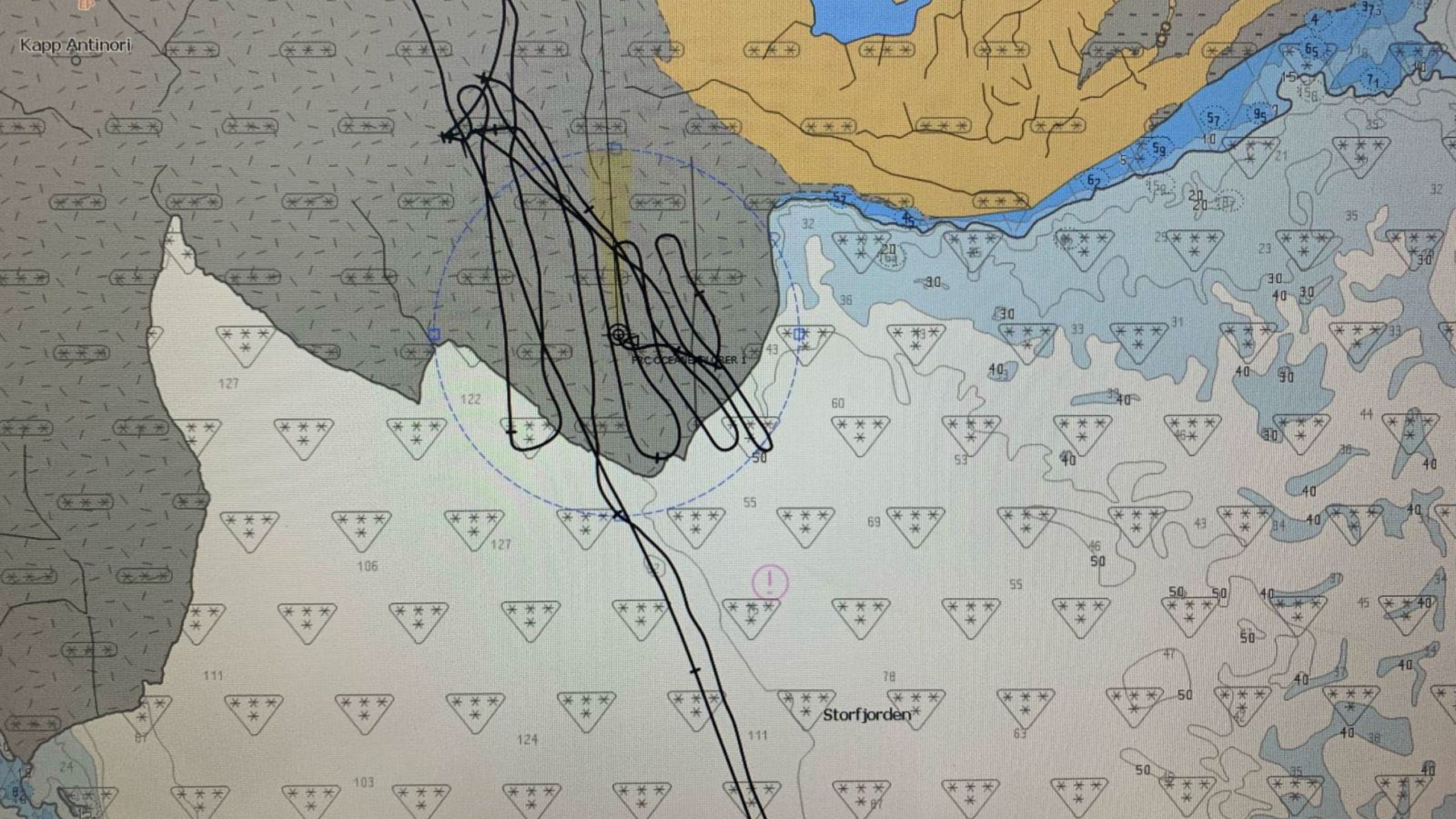

UNCHARTED WATERS
Briand Fjord
1402 m
GRAHAM LAND
FLANDRES BAY
Gaudin Point
Rahir Point
Lauzanne Cove
1062 m
GRAHAM LAND
Thomson Cove
Ponton Island
Pelletan Point
Etienne Fjord
GRAHAM LAND
Shulze Cove

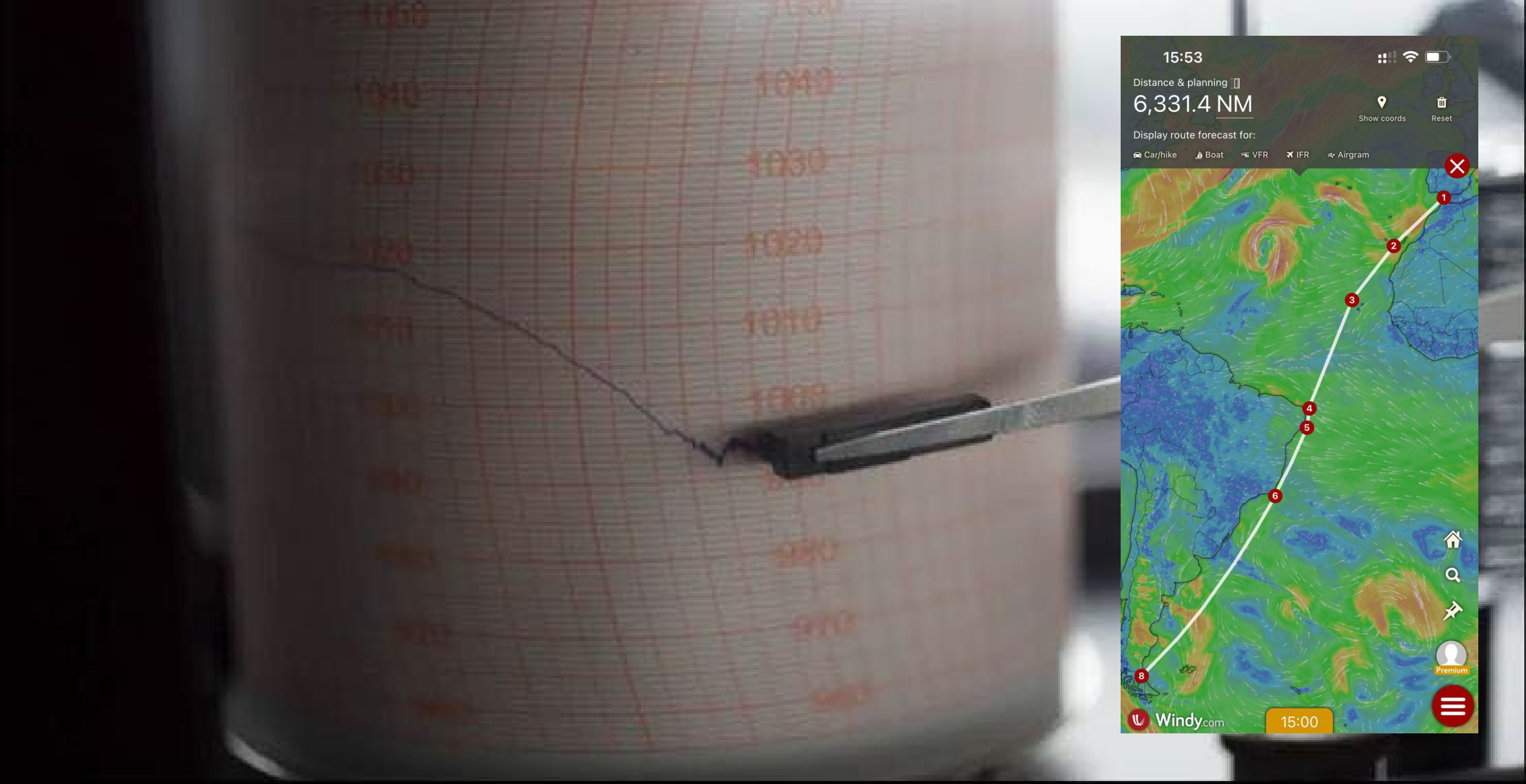


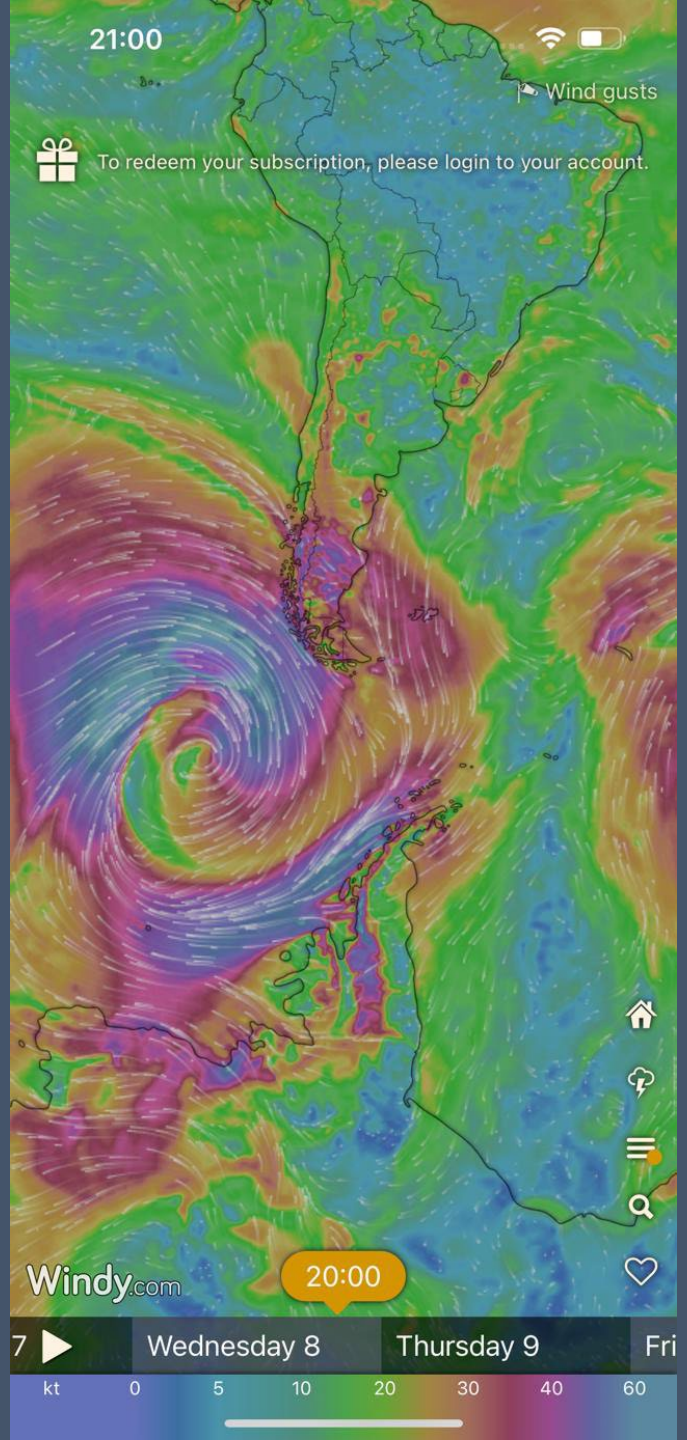


Looking Ahead

- Multibeam for survey work.
- Advantages to forward looking sonar

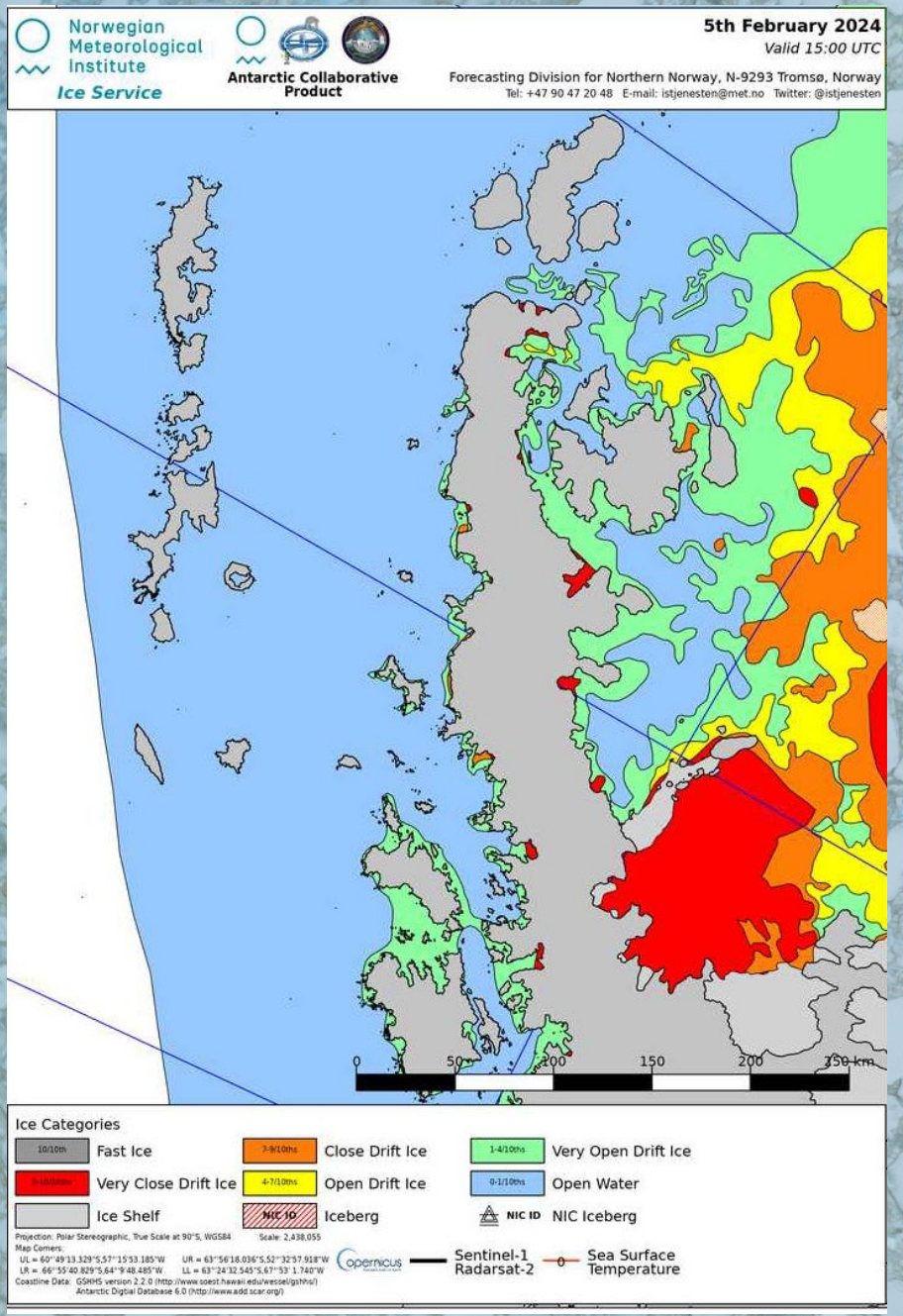

Kapp Antinori
Storfjorden


15:53
Distance & planning
6,331.4 NM
Show coords
Reset
Display route forecast for:
Car/hike
Boat
VFR
IFR
Airgram
1
2
3
4
5
6
8
Premium
Windy.com
15:00



Predicting the Weather


Microsoft Hyperlapse Pro


Norwegian Meteorological Institute
Ice Service
Antarctic Collaborative Product
5th February 2024
Valid 15:00 UTC
Forecasting Division for Northern Norway, N-9293 Tromsø, Norway
Tel: +47 90 47 20 48 E-mail: istjenesten@met.no Twitter: @istjenesten
0 50 100 150 200 250 km
Ice Categories
10/10th Fast Ice
9-10/10ths Very Close Drift Ice
Ice Shelf
7-9/10ths Close Drift Ice
4-7/10ths Open Drift Ice
NIC ID Iceberg
1-4/10ths Very Open Drift Ice
0-1/10ths Open Water
NIC ID NIC Iceberg
Projection: Polar Stereographic, True Scale at 90°S, WGS84
Scale: 2,438,055
Map Corners:
UL = 60°49'13.329"S,57°15'53.185"W
LR = 66°55'40.829"S,64°9'48.485"W
UR = 63°56'18.036"S,52°32'57.918"W
LL = 63°24'32.545"S,67°53' 1.740"W
Coastline Data: GSHHS version 2.2.0 (http://www.soest.hawaii.edu/wessel/gshhs/)
Antarctic Digital Database 6.0 (http://www.add.scar.org/)
Sentinel-1
Radarsat-2
Sea Surface Temperature

Contingencies


Thank you