



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.



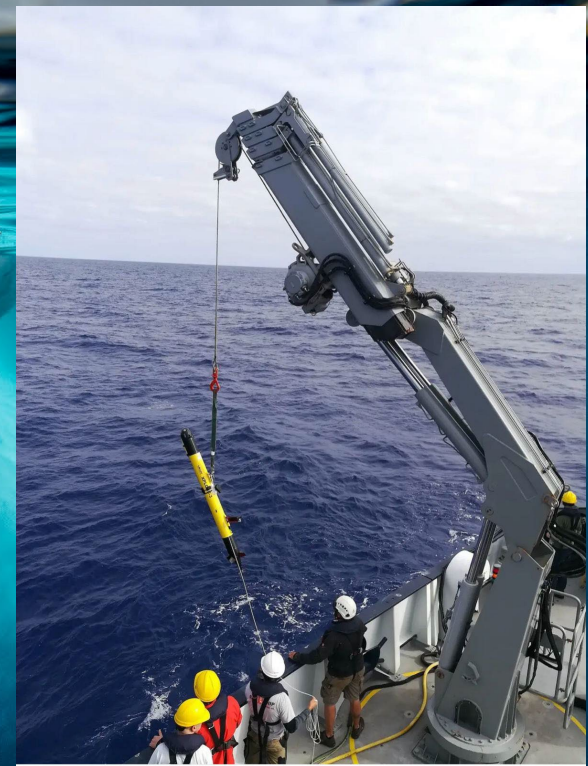
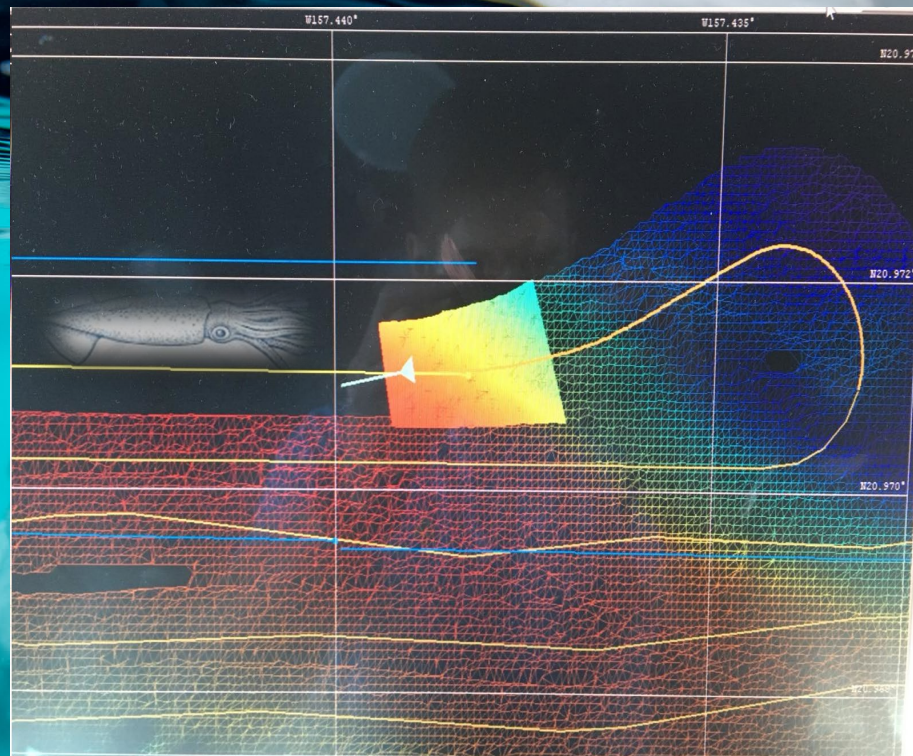
Searching and Beardless



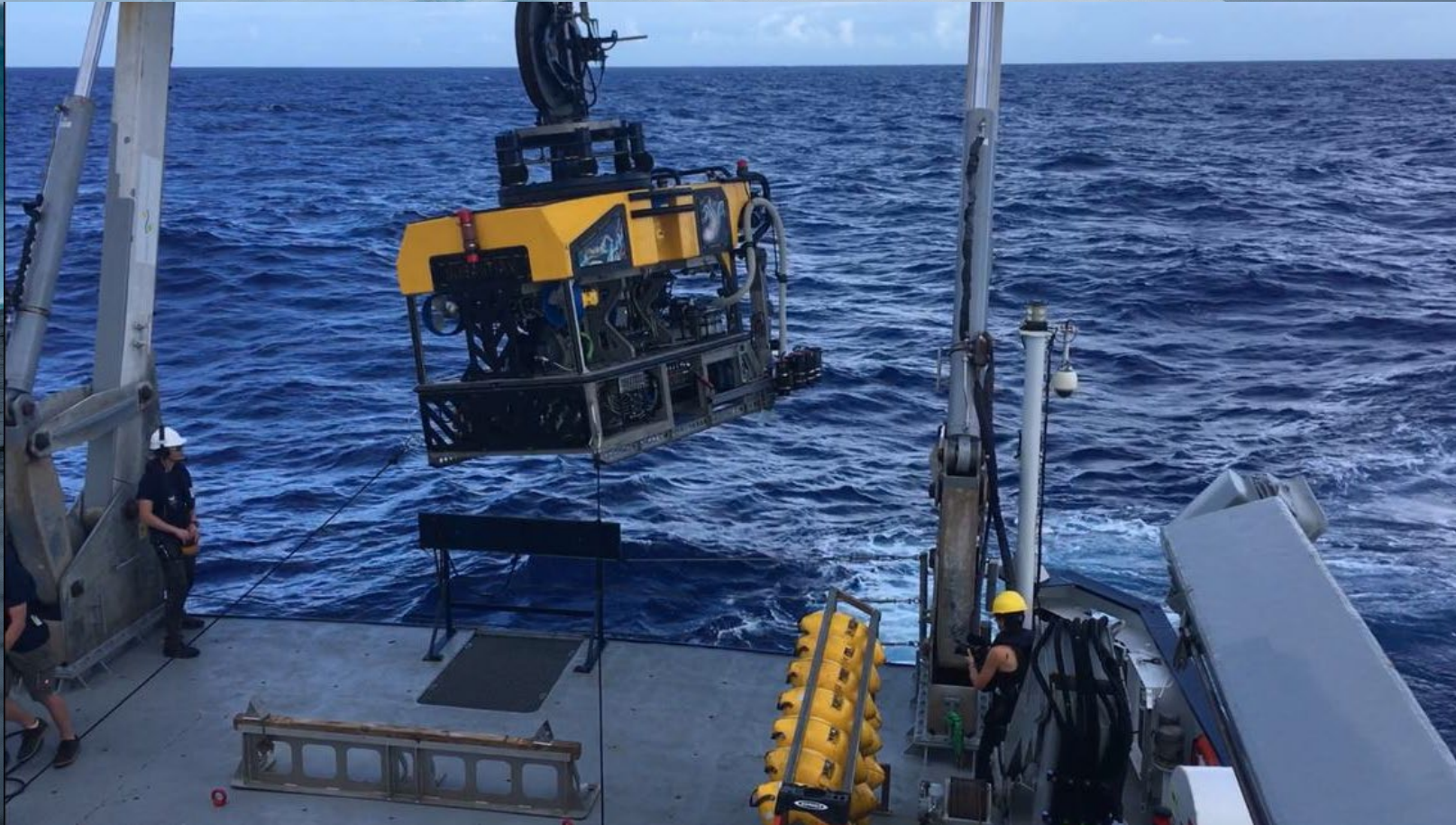


FALKOR

Filling in the Margins of the Charts



Sub Sea Operations





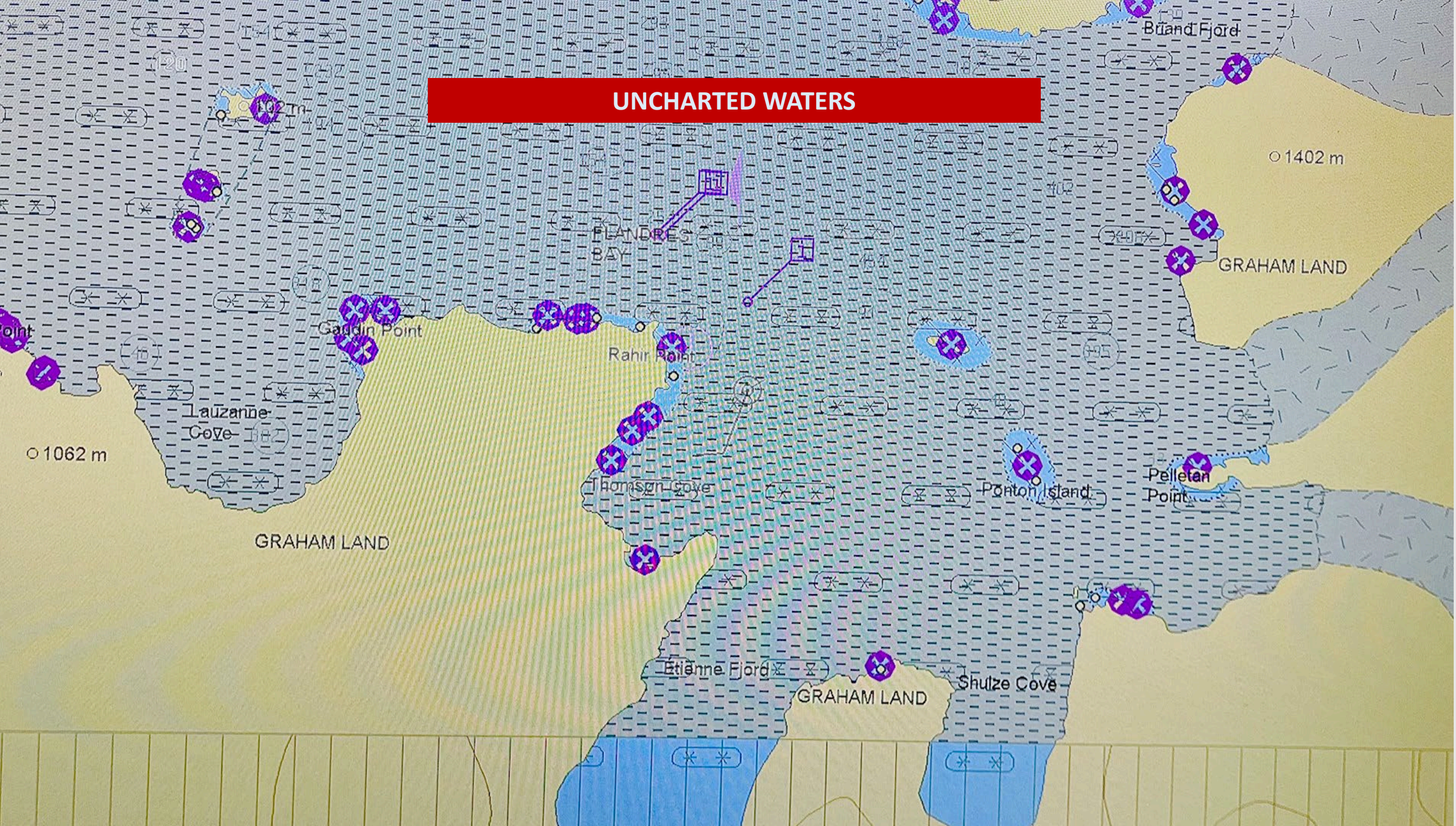
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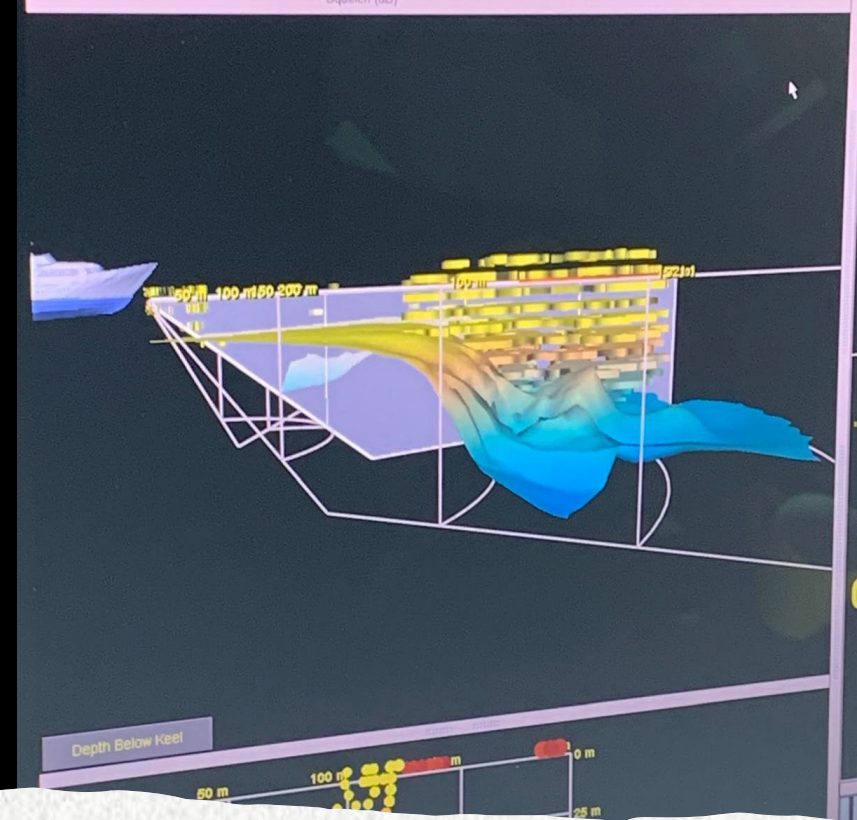
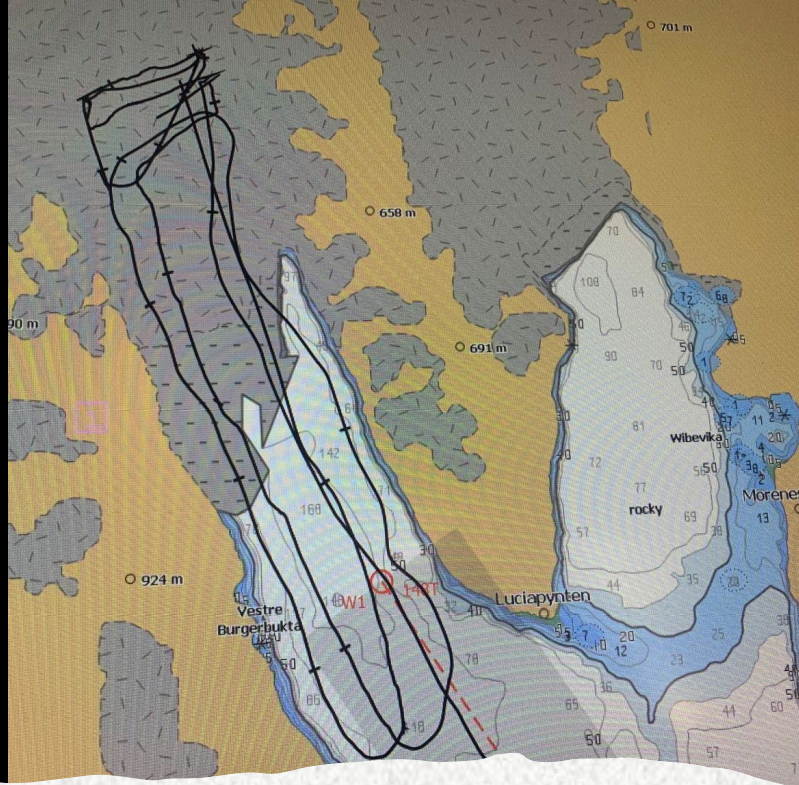
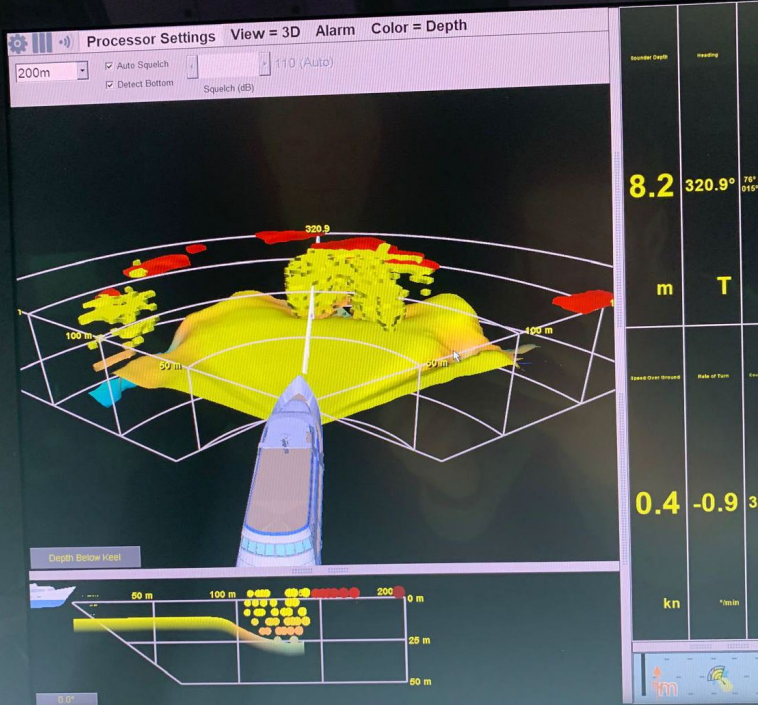
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Where the Ice Meets the Sea



UNCHARTED WATERS





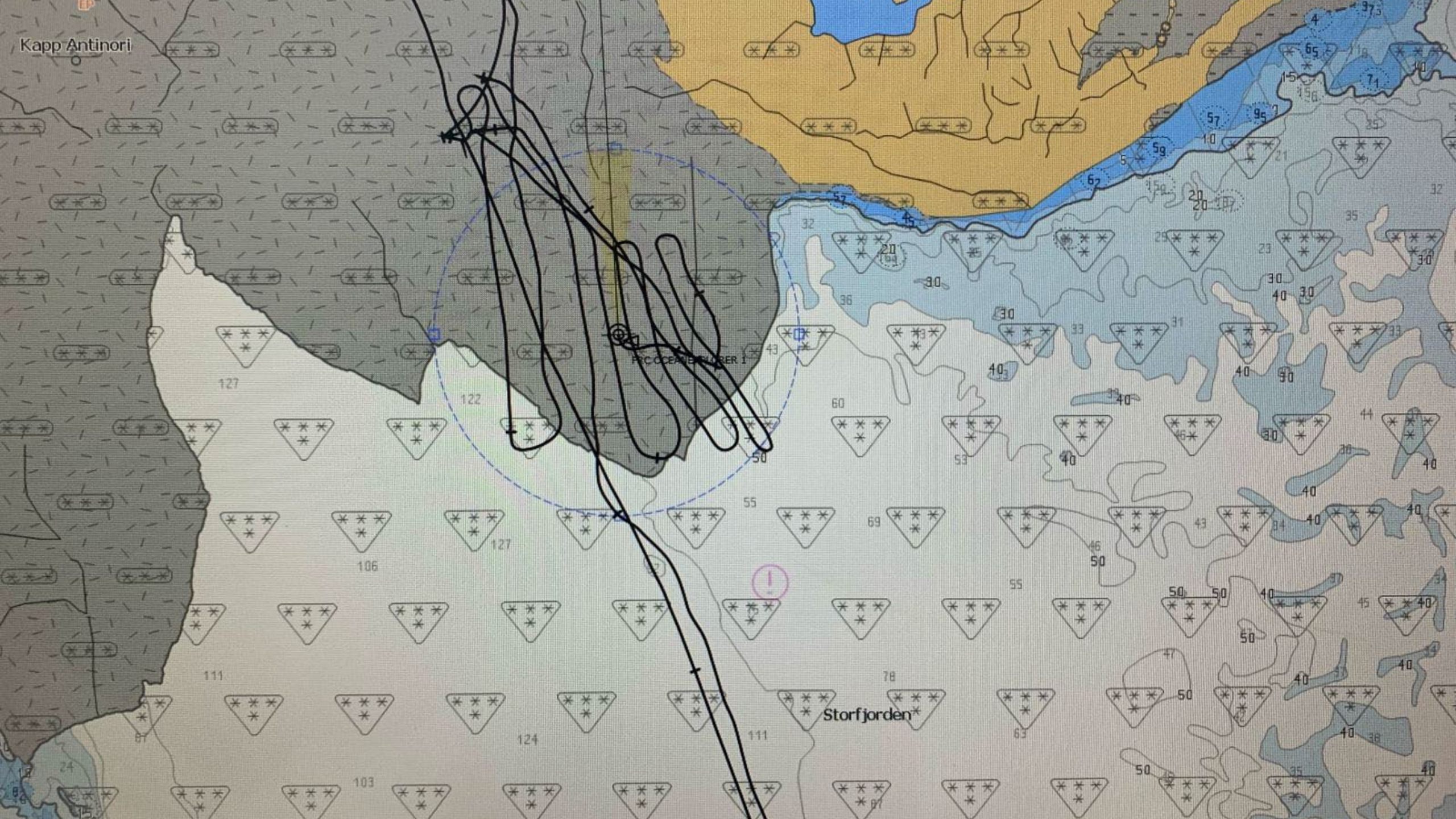
Looking Ahead

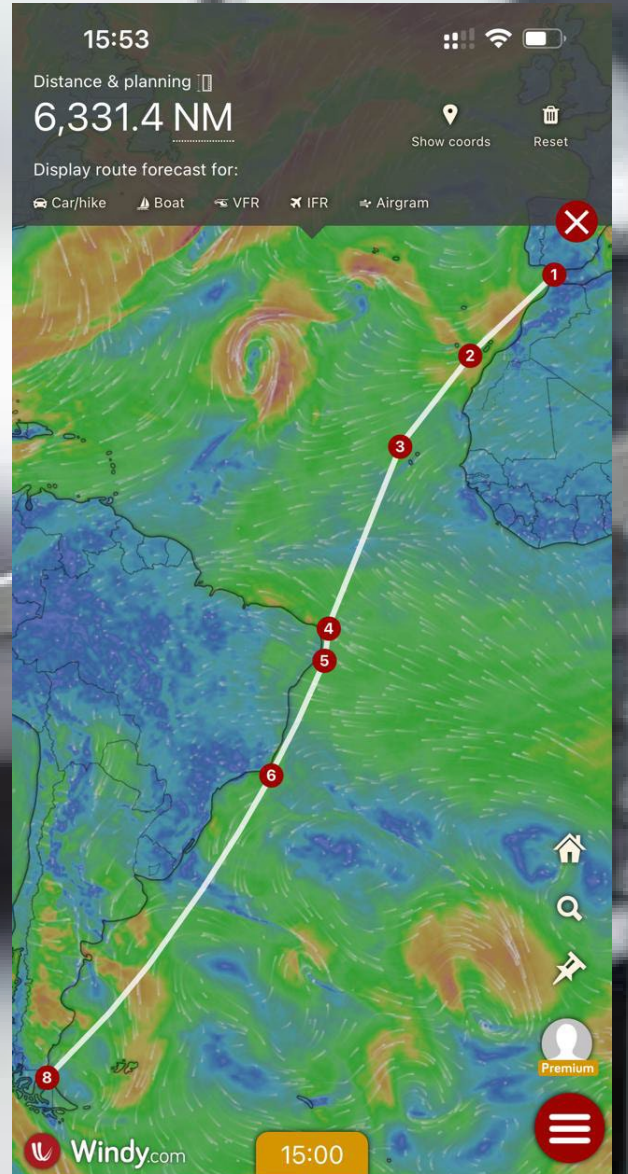
- Multibeam for survey work.
- Advantages to forward looking sonar

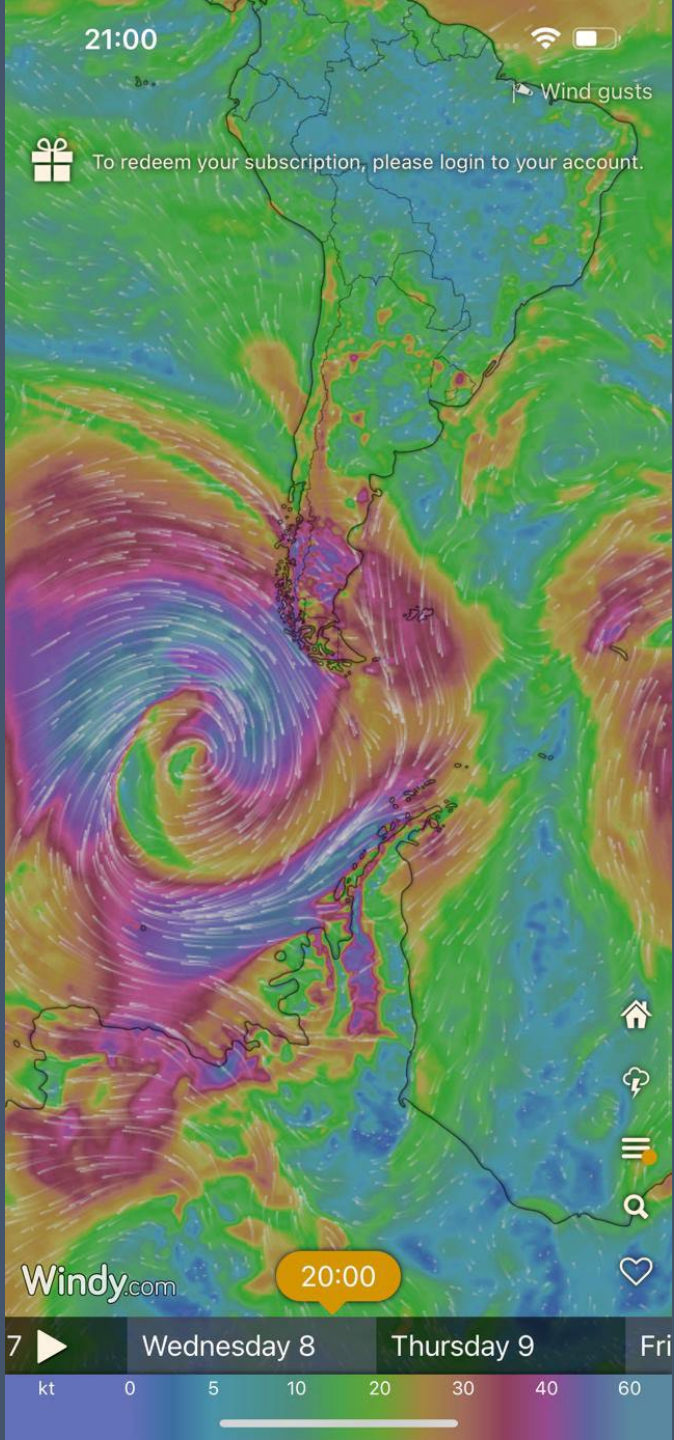
Kapp Antinori

PROCEANIS SURER 1

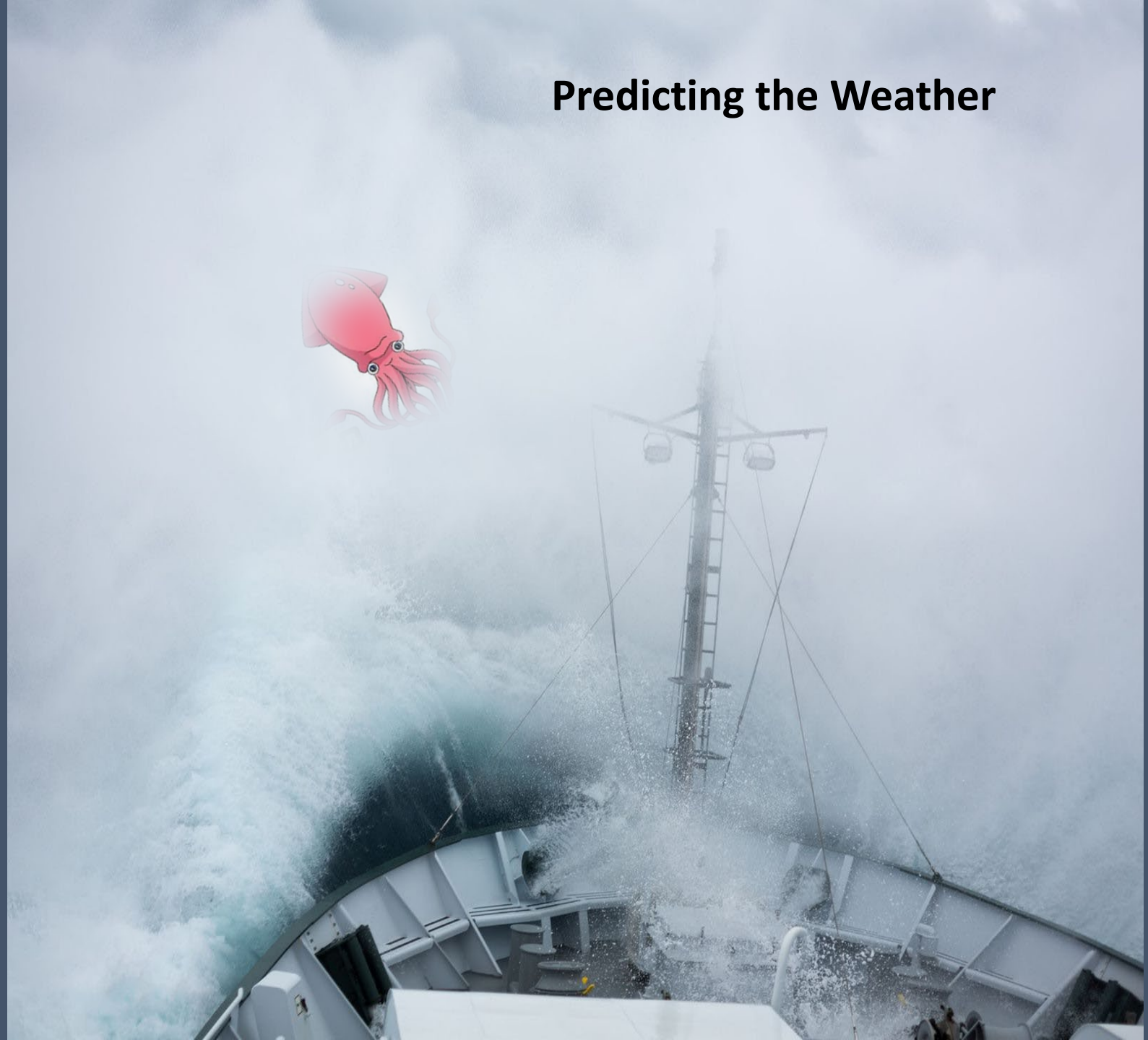
Storfjorden







Predicting the Weather



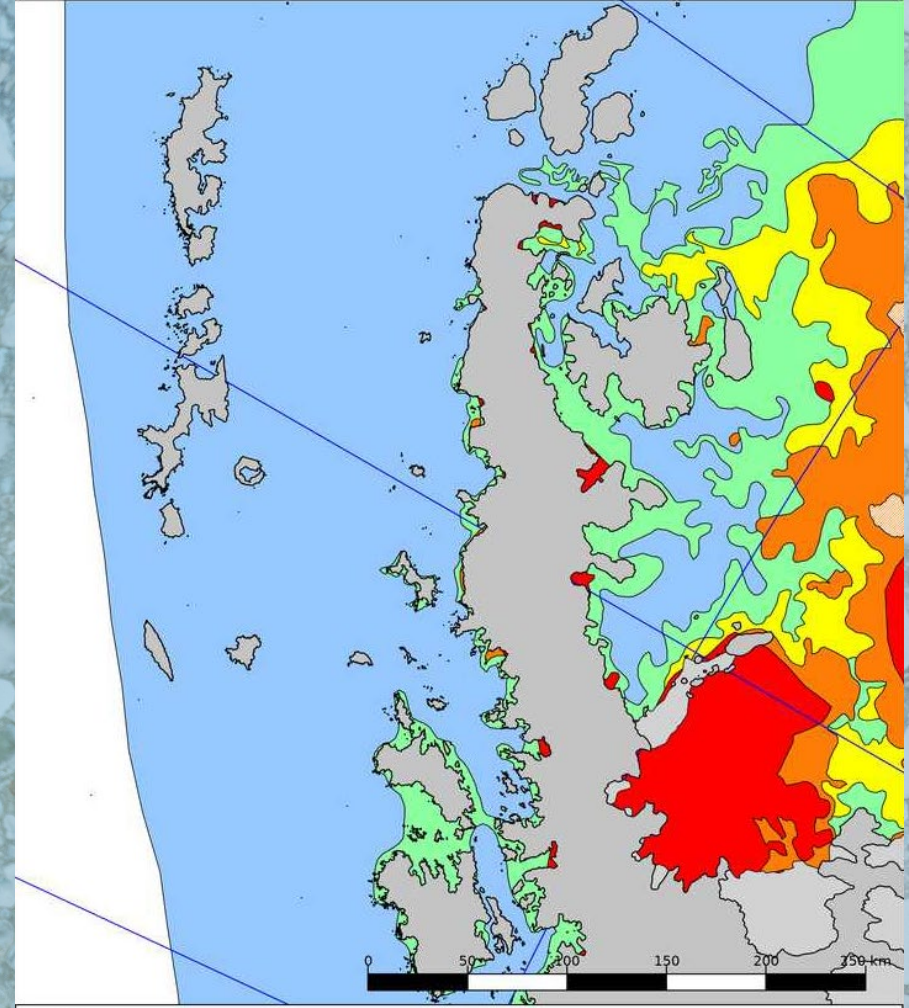


Microsoft Hyperlapse Pro





















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Ice Categories

 10/10m	 Fast Ice	 7-9/10m	 Close Drift Ice	 1-4/10m	 Very Open Drift Ice
 0/10m	 Very Close Drift Ice	 4-7/10m	 Open Drift Ice	 9-1/10m	 Open Water
 Ice Shelf		 NIC ID	 Iceberg		 NIC Iceberg

Projection: Polar Stereographic, True Scale at 90°S, WGS84 Scale: 2,438,055
 Map Corners:
 UL = 60°49'13.329"S, 57°15'13.185"W UR = 63°56'18.036"S, 57°32'37.918"W
 LR = 66°55'40.829"S, 64°9'48.485"W LL = 63°24'32.545"S, 67°53'1.740"W
 Coastline Data: GSHHS version 2.2.0 (<http://www.coast.hawaii.edu/wessel/gshhs/>)
 Antarctic Digital Database 6.0 (<http://www.aad.acron.org/>)

Contingencies







Thank you