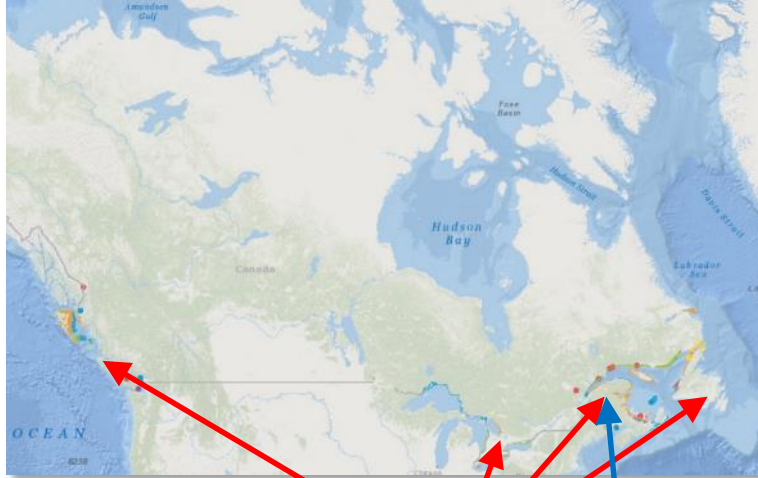


Autonomous vehicles



AHSV AHSL



National assets:

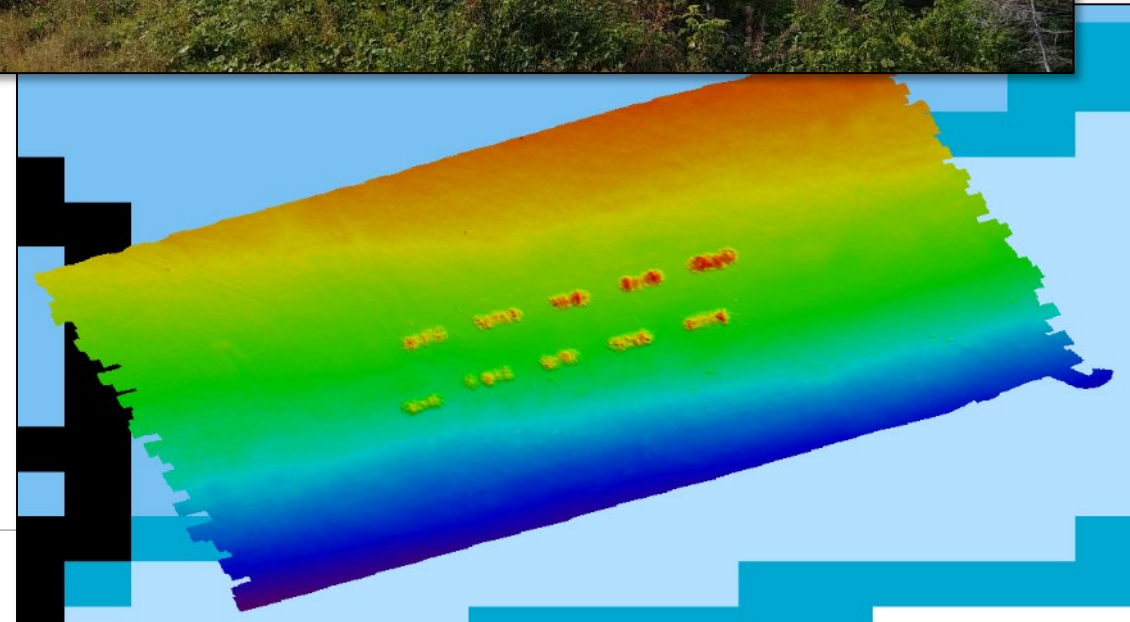
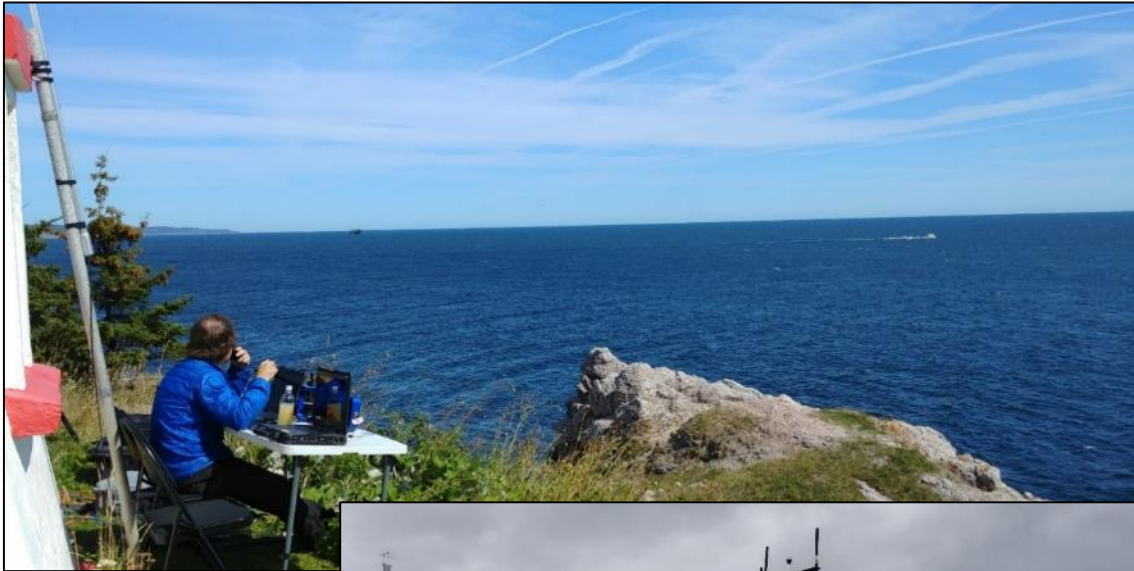
- Autonomous Hydrographic Survey Vehicles (AHSV) - SeaRobotics
 - 4 distributed in regions
 - Fully operational in 2018 and 2019 (Québec)
- Autonomous Hydrographic Survey Launch (AHSL) – ASV Global
 - 1 located in Mont-Joli
 - 26 foot launch (Garrot)



Autonomous vehicles

- Autonomous Hydrographic Survey Launch (Garrot):
 - Project started in 2016, partly delivered in 2017, finalized in 2018
 - Successfully tested in fall 2019 (in full autonomous mode with a crew)
 - Improvements required:
 - Communications (delays, range, unidirectional antenna)
 - Better linkage with the acquisition software, line turns in shallow water
 - Anti-collision and anti-grounding features
 - Add a winch for sound velocity measurements
 - Need to define its usage
 - Multiplication factor (channel survey)? Other?
 - No mother ship in the region, CCG Icebreakers?
 - The gain is not obvious with only one autonomous launch...
 - Time consuming...

Autonomous vehicles



Autonomous vehicles

