

Amundsen Science:

*A research partner to access
Canada's Arctic seas*

AMUNDSEN SCIENCE



***RVOC Meeting
Halifax
7 May 2024***

INNOVATION.CA
CANADA FOUNDATION FOR INNOVATION | FONDATION CANADIENNE POUR L'INNOVATION

CCGS *Sir John Franklin* built and operational



Scientific mandate managed by Amundsen Science



New Strategic Plan implemented

1979

2003

2016

2022

Present



CCGS *Sir John Franklin* retrofitted for science and rechristened CCGS *Amundsen*.



\$54.8 million from the Canada Foundation for Innovation – Major Science Initiatives program over 2023–2029.

2,600+

research days at sea since 2003

300,000+

nautical miles travelled since 2003

3,000+

scientists from 25+ countries

2,100+

publications and datasets

140+

teams in 45+ programs since 2003

\$55M+

of state-of-the-art scientific equipment

Barge

Lab-containers

Drone

Helicopter

Zodiac

Moving
vessel
profiler

New sonars

Met-Tower

15+ internal
laboratories

Autonomous
Underwater
Vehicle (AUV)

CTD-Rosette

Gliders

Piston core

Trace metal
rosette & clean
lab

Remotely
Operated
Vehicle (ROV)

Starlink
internet
100 mb/s

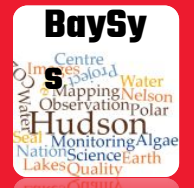
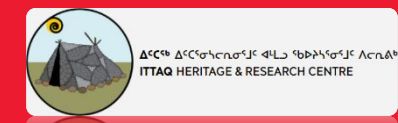
Fish and
plankton nets

Environmental
chambers, -80°C
freezers and incubators

Box core

Moorings

20 years of cutting-edge science



National recognition

In 20 years of operations, the CCGS *Amundsen* has become the most capable, well-equipped, accessible, and widely used oceanographic research vessel in Canada



Cost sharing agreement & dual management – key operational pillars



Canadian Coast Guard
(Owner and operator)



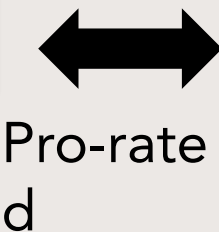
Science Operations
Max 140 days (Jun-Oct)

Maintenance
112 days (was 72 before 2020)

Coast Guard Operations
113 days (Nov-May)

O&M Costs
(Research programs & CFI funding)

Government of Canada



Full cost recovery
(\$10M/yr)





Marlon Lewis, Emeritus Professor
Dalhousie University, Board of
Directors' Chair

Marcel Babin, Professor
Université Laval/Amundsen
Science, Scientific Leader



Anissa Merzouk,
Amundsen Science
Marine Research
Coordinator



Alexandre Forest
Amundsen Science
Executive Director

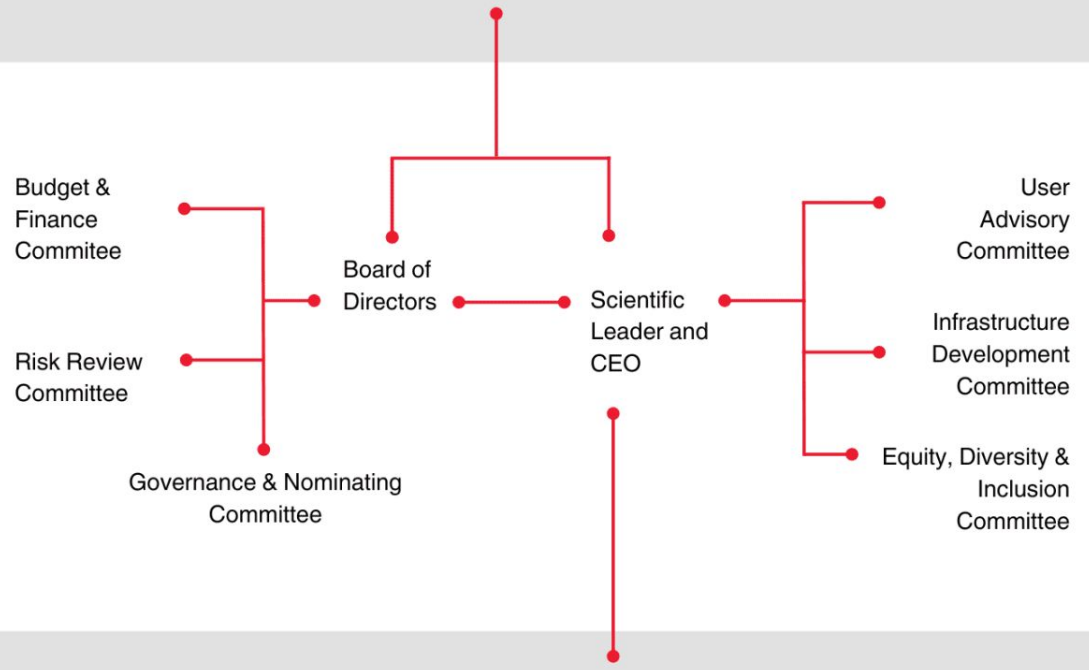
Amundsen Science
Members

Université Laval
University of Manitoba
Memorial University of
Newfoundland
University of British
Columbia

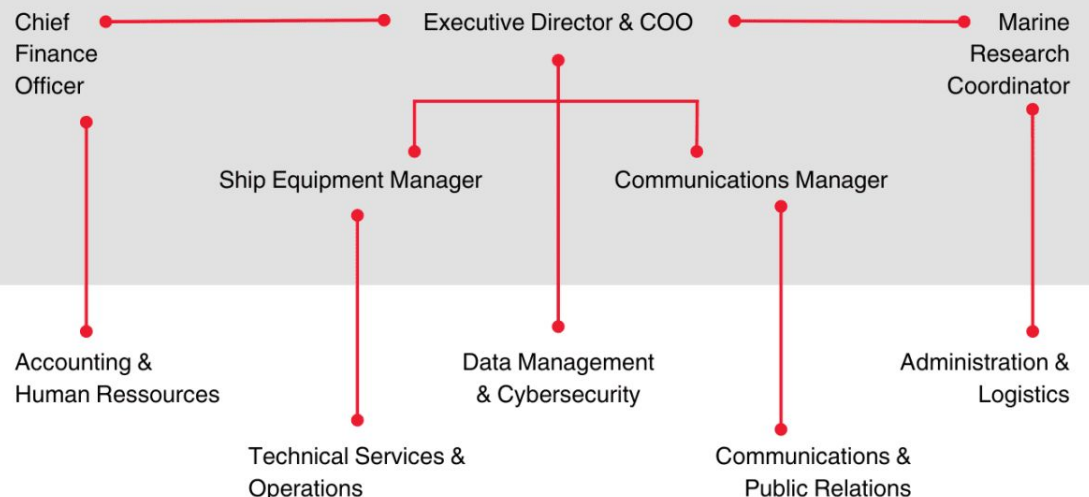
University of Calgary
Carleton University
McGill University
Université du Québec
à Rimouski
University of Toronto

University of Victoria
Dalhousie University
University of Ottawa
Nunavut Arctic College
Aurora College

Governance



Management

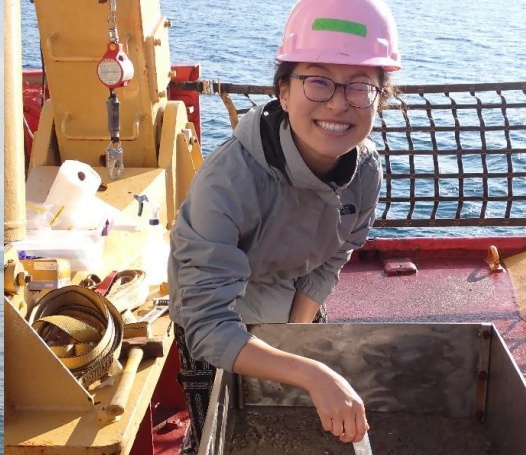


A key achievement of the Amundsen was to provide unprecedented access to the Arctic to Canadian Universities for the training of students and post-docs



> 850 graduate students and post-docs aboard the vessel since 2003

Training the next generation



2024 Amundsen Expedition

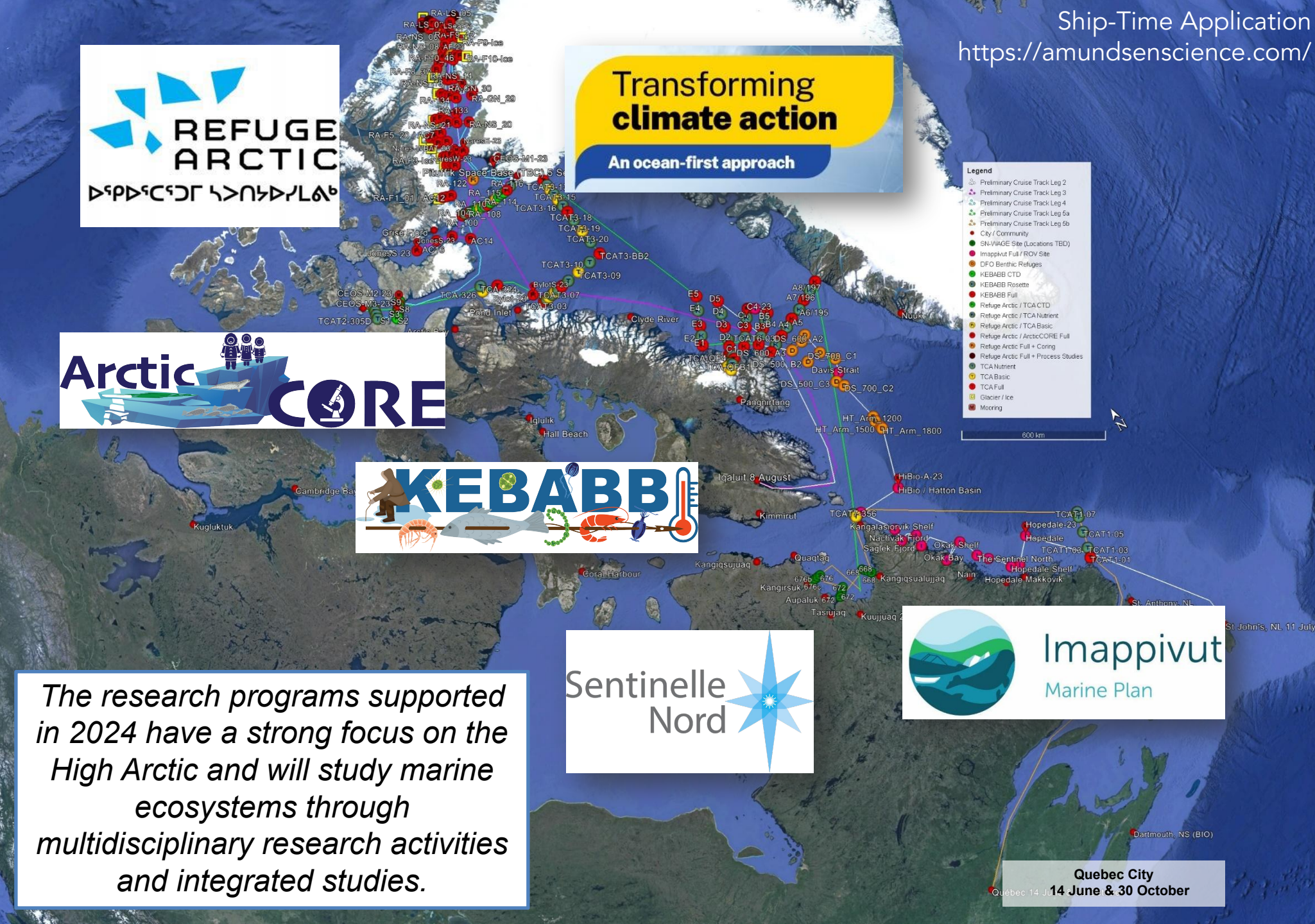
Expedition Plan Overview

5 Legs
14 June to 30 October

4 science Legs for
112 days at sea



The research programs supported in 2024 have a strong focus on the High Arctic and will study marine ecosystems through multidisciplinary research activities and integrated studies.



Quebec City
Quebec 14 J. 14 June & 30 October

CCGG Amundsen – French Oceanographic Fleet Exchange

Next call for proposals: June 2024 for ship-time in 2026



CGS Amundsen



L'Atalante



Pourquoi Pas?



Thalassa

