

Additional Information

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SECTION H1: Vessel Use

In construction year (2021), we will use RV Sanna, a 32m research vessel operated by Greenland Institute of Natural Resources to deploy 2 small scientific moorings. In operations years (2022 and 2024), we will likely use RV Armstrong, a 72m research vessel operated by Woods Hole Oceanographic Institution to service moorings and conduct CTD (conductivity, temperature and depth) stations to measure ocean water properties at sites NL01-NL08 and SML01. RV Sanna has a crew of six. RV Armstrong has a crew of 30. In 2021, the Sanna cruise will depart Ilulissat, Greenland on 3 August and return to Sisimiut, Greenland on 6 August. Schedules for 2022 and 2024 are TBD though will also likely sail from and return to Greenland ports. There will be no intermediate port calls on any of the cruises. For 2021, Sanna will transit directly to the Cape Dyer area and return directly to Sisimiut. Once on station, total time to complete the mooring construction will be less than 12 hours. In 2022 and 2024, in addition to the operations in the settlement area, the project will include mooring operations across Davis Strait to the Greenland shelf and CTD stations throughout Davis Strait, southern Baffin Bay, and northern Labrador Sea. There are no additional regulatory requirements for those operations. Cruises are scheduled when all operational areas are ice free and no ice breaking is required. The moorings BI2 and BI4 and CTD stations NL01 - NL08 are within the Outer Land Fast Ice Zone, but other than occasional grounded icebergs, no ice will be present at those sites during our operational windows. There will be no discharges of any bilge, ballast, grey or black water, solid waste, oils or hazardous or toxic substances. Research vessels used in these operation comply with all local and international regulations relating to environmental controls, waste storage and discharge, including MARPOL Annexes I, IV and V, Canada's Vessel Pollution and Dangerous Chemicals Regulations (SOR/2012-69) and Canada Shipping Act, 2001. Research vessels used in these operation have detailed spill and emergency response plans per local and international regulations and industry best practices. Due to the very limited nature of the 2021 cruise, there will be no dedicated wildlife observers, though the Sanna bridge crew is very experienced in conducting marine mammal surveys. In 2022 and 2024 we will likely have dedicated observers as part of bird and marine mammal scientific survey operations. Our primary wildlife mitigation is to simply suspend operations when marine mammals are observed in an operating area.

SECTION H2: Disposal At Sea

N/A. No disposal or discharge during these operations.

SECTION I1: Municipal Development

The moorings are offshore Cape Dyer, south of Akpait NWA and Qaqulluit NWA. The sites will be accessed by ship, approaching from Greenland. In operations years, the NL01-NL08 CTD sampling stations are north of Akpait and Qaqulluit wildlife areas. There are no shore landings or port calls.

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The area is visited by sea birds and marine mammals, potentially including whales listed under SARA and polar bears.

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N/A

Miscellaneous Project Information

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All route planning and transits will be designed to avoid the sensitive NWAs. Operations are suspended when marine mammals of any species are observed in an operating area.

Cumulative Effects

Given the very low frequency of visiting the area and short duration of the visits we expect no significant cumulative effects from these activities.

