

# Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 020 19R-M

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AFFILIATION: Alfred Wegener Institute

TITLE: Ice Bird-2019

### OBJECTIVES OF RESEARCH:

As in the various subsequent campaigns, the Alfred Wegener Institute will use its DC-3 aircraft (Polar 5 & Polar 6) to conduct surveys through a series of planned flights. The aim of the aircraft campaign Ice Bird 2019 is to conduct sea ice surveys over different ice regimes when sea ice is close to its maximum extent and over its peak period of melting. The surveys contribute to a sea ice observation program that spans the western part of the Arctic Ocean from the Fram Strait to the Western Beaufort Sea. The set of sensors include a towed electromagnetic-induction system for estimation of ice thickness, an airborne laser scanner for high-resolution surface roughness and a snow radar for snow depth on sea ice. In addition, a set of air-launchable buoys will be used to mark flight tracks over the drifting sea ice for re-visits by follow up surveys. These instruments will be used to collect data and samples during a series of planned high altitude and low altitude flights in each of the various locations.

### TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this licence.

### DATA COLLECTION IN NU:

DATES: March 20, 2019-September 02, 2019

LOCATION: Alert, Eureka, Resolute Bay

Scientific Research License 02 020 19R-M expires on December 31, 2019

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