

SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 05 014 25R-M

ISSUED TO: Christian Haas
Institute for Polar & Marine Research
Alfred Wegener Institute
Klussmannstr. 3d, 27570
Bremerhaven,
275270 Germany

TEAM MEMBERS: R.Kelly, L.Wagner, J.Stroeve, R.Willat, C.Nab, A.Fallows

TITLE: IceBird 2025

OBJECTIVES OF RESEARCH:

The aim of IceBird is to conduct sea ice surveys over different ice regimes when sea ice is close to its maximum thickness. The project is designed to collect detailed measurements and trace the evolution of such changes from year to year. Sea ice thinning and retreat are expected to continue as a result of climate change with a major uncertainty introduced by long-term natural climate variability. The project will use a specially modified DC-3 research aircraft, owned by the Alfred Wegener Institute, fitted with scientific instruments that will be used to collect data. 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 scientific instruments include a towed electromagnetic-induction system (EM-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.

TERMS & CONDITIONS:

The holder of the license will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File # 09YN010 & 14YN025) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this license.

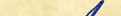
DATA COLLECTION IN NU:

DATES: April 2,2025 to April 26,2025

LOCATION: Last Ice Area, Victoria Strait, Penny Strait, Pond Inlet, Qikiqtarjuaq, Resolute Bay, Cambridge Bay, Eureka, Gjoa Haven

Scientific Research License 05 014 25R-M expires on December 31,2025

Issued at Iqaluit, NU on April 2, 2025


James Shirley
Science Advisor

