

## What is DCH?

The Danish Centre for Marine Research (Danish: Dansk Center for Havforskning, DCH) was started in 2010 and is focused on strengthening Danish marine research primarily by administrating national funds for research ship charter and facilitating collaboration with the Danish Navy and Marine Home Guard. DCH is owned by a consortium of Danish public institutions involved in marine research.

## A unique Naval collaboration

Since 2014 DCH has had a close collaboration with the Danish Navy in establishing a framework for marine scientists to receive support from the Navy for oceanographic research. Central to this collaboration was the aspiration from both sides to accommodate into the design of the new Knud Rasmussen class vessel, Lauge Koch (LAKO), modifications that would facilitate its use as an oceanographic research platform. LAKO was put into service in 2018 and the first oceanographic research cruise is in August 2018.

## New research opportunities in the North Atlantic

Every year DCH welcomes applications from scientists for research cruises. The deadline is 1st April the year before the planned activity. Two types of applications are accepted: funding of ship charter for civilian vessels and requests for support from Danish Naval vessels. The civilian charter has no geographical limitations whereas support from the Navy is limited to the operational region of the Danish Navy. Expression of interests for future expeditions are also encouraged as this can aid the DCH board in planning the allocation of funds. Scientists are able to apply for funds from DCH to cover logistics costs in conjunction with expeditions (e.g. equipment freight, travel, certification).

See [www.havforskning.dk](http://www.havforskning.dk) for more information.

# Dansk Center for Havforskning

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# Dansk Center for Havforskning



New possibilities  
for Marine Research  
in the North Atlantic

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# Dansk Center for *Havforskning*

## Oceanographic equipment available

The Danish Navy and DCH has invested in equipment which can facilitate the use of LAKO for oceanographic research. This consists of both fixed and mobile installations.



## Equipment permanently installed on board

With the exception of the sub-bottom profiler and meteorological equipment, the listed installed equipment below is owned by the Danish Navy but available for use by scientists via DCH.

- Underway hydrography: Seabird SBE 21 SeaCAT Thermosalinograph
- Underway meteorology: Ultrasonic Anemometer uSonic-3, Radiance Sensor (Pyranometer), temperature sensor and combined data logger.
- Multibeam Sonar: Teledyne Reson SeaBat 7160
- Sub-bottom profiler: Innomar ses-2000 – Deep \*

\*Equipment owned by the Geological Survey of Greenland and Denmark (GEUS) but made available in collaboration with DCH.

## Mobile equipment

- A-frame: 80kN extendable hydraulic A-frame mounted on 20' container footprint. Designed and manufactured by SHG. DNV-GL certified.
- Heavy Duty winch: 50kN hydraulic winch with 4000m Dynlce Warps (16mm). Mounted on a 10' container footprint. Designed and manufactured by SHG. DNV-GL certified.
- Light winch: 10kN hydraulic winch with slipping and 3500m Rochester 8mm (Dataline A216314) communication wire. Designed and manufactured by SHG. DNV-GL certified.
- Laboratory container: Insulated, temperature control, plumbing, electricity and laboratory table top and storage. Manufactured by DesignModul. DNV and CSC certified.\*\*
- Rosette duplicate CTD sensor and water sampler system: Seabird SBE 32 Carrousel and SBE 911+; duplicate temperature, conductivity, pressure, and oxygen sensors; Chlorophyll fluorometer; altimeter; and PAR radiance sensor. \*\*

\*\*Equipment owned by Technical University of Denmark, National Institute for Aquatic Resources (DTU-AQUA) but made available in collaboration with DCH.

