Oceanographic and Fisheries Research Vessel



Árni Friðriksson RE-200



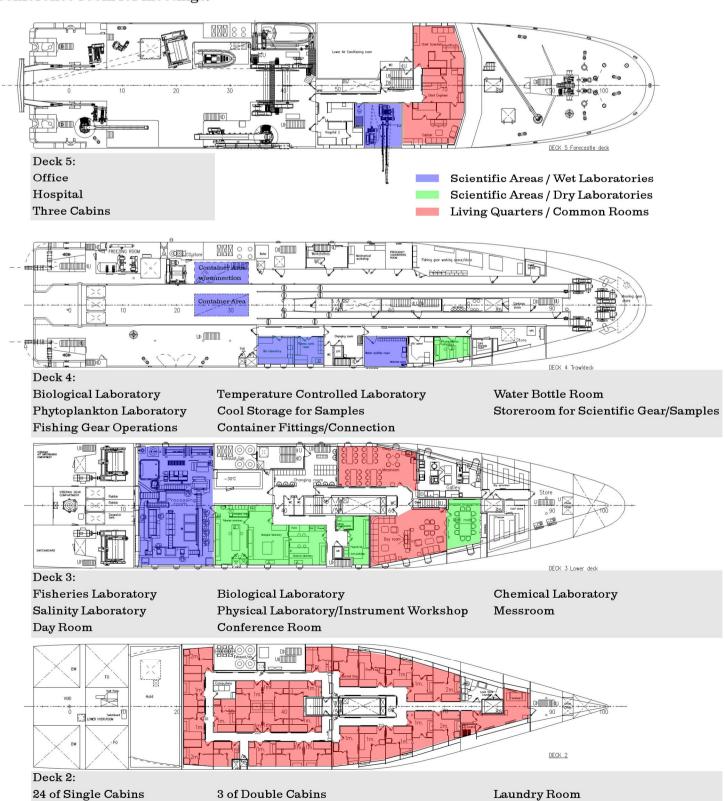
Deck Equipment:

The vessel is equipped with numerous winches for towing and scientific purposes. Three main winches with a max pull of 32 t each, enable the vessel to operate two trawls simultaneously. The vessel has big drums for pelagic trawls or cables and a number of auxiliary winches. Scietific winches include CTD winch, hydrographic winch, a zooplankton winch, two electrical cable winches and a multi purpose winch for various use. On board are three hydraulic cranes, two on aft (70 and 36 tm with a 19 m working radius) and one located on the forcastle deck (24 tm with 12 m working radius). To operate gear at the stern an A-frame with an approximately 35 t lifting capacity is available. Shoe fittings for two containers are on the trawl deck and one connection utility box for a container (water, drain, electricity, communication etc.).

Laboratories and Living Quarters:

Sports Room w/Sauna

The vessel is equipped with sophisticated laboratories and research areas. Versatile research capabilities give it a leading edge in the marine reasearch field. Living quarters include fitness room and sauna as well as a conference room for meetings.





Árni Friðriksson is built as a multipurpose research vessel, designed for oceanographic and fisheries research in temperate and artic waters (LR Ice Class 1B on the hull). The propulsion system is of diesel electric type to secure low noise levels. The vessel is equipped with sophisticated electronic equipment for stock assessment, bottom mapping and communication.

R/v Árni Friðriksson RE-200 / 2350

9192404 IMO No.: 251507000 MMSI No.: Call Sign: **TFNA** ICES Shipcode: 46FR Icelandic Flag: Homeport: Reykjavík

Classification: Multi-Purpose Research Vessel

LR Ice Class 1B

Building Year: 2000

Yard: Asmar Shipyard, Chile

Main Dimension:

Length o.a.: 69,90 m Length p.p.: 60,00 m Breadth mld.: 14,00 m Depth to Trawl Deck: 10,30 m Max Mean Draft: 6,80 m Gross Tonnage: 2.233 tonnes

Max 16,1 - Cruising 11-13 knots Speed:

Bollard Pull: 62 tonnes

Range: 9000 nautical miles at 12 knots Accommodation: 16 Crew/17 Scientists/Hospital

Propulsion:

The diesel electric propulsion system is based on four diesel engines and one direct coupled AC propulsion motor.

Caterpillar 3512B, 1080 kW each Engines: Alstom 3300 kW AC, 150-172 rpm. Propulsion motor:

Kamewa 3600 mm Diameter in Nozzle, 150/172 rpm/min Propeller: Thrusters: Two Pump Jets 400 kW each and a 250 kW Bow Thruster

Electronics:

The vessel is equipped with a retractable keel for the echo sounders transducers. The keel can be lowered 3,5 m below the vessel hull, which greatly reduces noise due to wind and waves as well as flow noise from the vessel hull. The keel can be raised above lower decks which makes retrofitting other equipment a viable option.

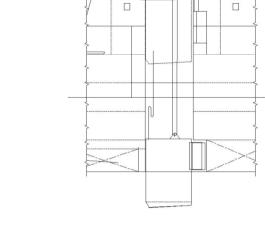
Simrad EK60 split beam echo sounders at 18, 38, 120 and 200 kHz Echo sounders:

Search Sonars: Kaijo Denki low and high frequency (24 and 163 kHz) Kongsberg Simrad EM300 (2*2 degree resolution), 30 kHz Multibeam:

SyQwest Bathy 2010, 3.5 kHz Sub-bottom prof.:

Current meter: Teledyne RDI Ocean Surveyor, 75 kHz GMDSS, Internet through satellite and 3G Communication:



















Tel.: +354 575 2000 Marine Research Institute Skulagata 4 121 Reykjavik **Iceland**

Fax: +354 575 2001 Website: www.hafro.is E-mail: hafro@hafro.is