



Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

New Swedish Research vessel for fishery and oceanography

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Project status

Concept 2014



- Swedish Government mission: Concept study aided by SSPA, visits to IMR Bergen, GO Sars and MI Galway, Celtic explorer, experience kindly shared by our colleagues at GU – **Thanks!** – Aug2014
- Management study, interview and advice by CEFAS regarding management **Thanks!** – February 2015
- Decision by Swedish Government – April 2015, New build with SLU as owner and responsible for the procurement and project. Responsible for future management the Swedish maritime administration
- Procurement ship technical consultant as project leader for the build (Saltech AB, Mr Anders Englund) June 2015
- Procurement design (restricted procedure, qualification) – contract December 2015 - Skipsteknisk AS
- Technical specification and design –September 2016
- Procurement vessel (restricted procedure, qualification) – contract Armon shipyard, Vigo in Spain January 2017
- Delivery planned to April 2019
- 1 year guarantee, the RV will not be run with full capacity until after year 1.

Specification of requirement in very short

- SLU-fish surveys, bottom and pelagic trawling, hydroacoustics, oceanography
- SMHI-oceanography, advanced laboratories
- All year round mainly in the Skagerrak, Kattegat and the Baltic but also the North Sea and the Norwegian Sea
- Flexibility for research projects, spacious aft deck for gear, cranes, winches, ROVs and container labs etc.

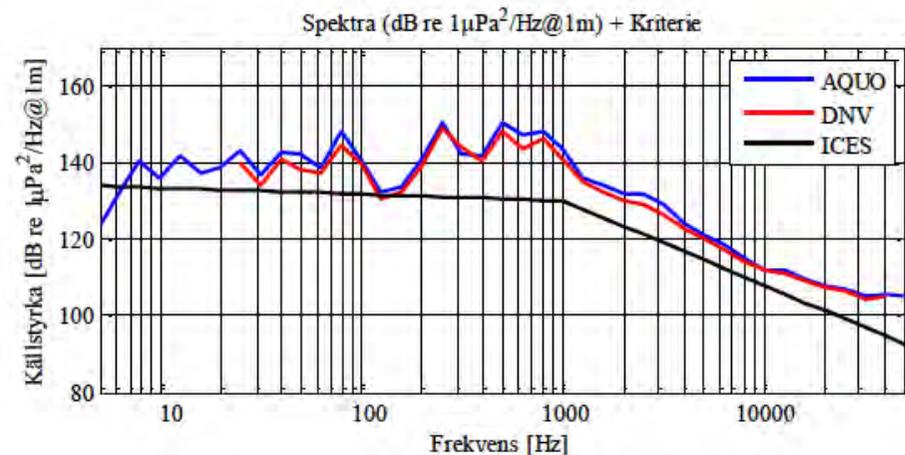
Built and run with the aim of a low environmental foot print

- The vessel will run on Hydrogenated vegetable oils (HVO) based on surplus materials from the paper industry
- Latest technology in reduction of emissions including particle filters
- Connection to shore based heating and electrical power at port
- Silicon based anti fouling of hull and seawater cooling systems
- Onboard sewage treatment plant



Constructed to comply with low-level noise requirements for fish surveys (ICES crr 209) and minimize bubble sweep down

- Skipsteknisk design
- Shipyard noise consultant (DNV)
- DC system for generators (Caterpillar), AC system for motors (Siemens)



Figur 17. Spektra av utstrålat buller jämförda med ICES CRR 209-kriteriet, 11 kn.

Spectra for Coastguard vessel run at 11 knots



Length O.A. 69.5 m

Beam 15.8 m

Accommodation 28 single cabins

Crew 9-15

Scientists >13

Class: DNV 1A1, EO, ICE-1B,

Dynpos-auts, SPS, TMON,

BWM-T, Comf-C(2)V(2), CLEAN,

NAUT-AW

Endurance 16 days



Scientific equipment

- Fish handling and laboratories ergonomically designed
- FerryBox
- Two drop keels for hydroacoustics (multibeam sonar, multibeam echosounder, wideband multifrequency echo sounder system, Low and high frequency fish finding sonars ADCP (150 and 600 kHz))
- Towed fish (ROTV) for hydroacoustics (wideband multifrequency echo sounder system)
- Underway profiling system ROTV for undulating hydrography
- Provisions for additional equipment i.e. container with ROV, spacious aft deck for handling of landers, corers, AUV:s and buoys



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