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R/V Aranda – modern multipurpose research vessel

Aranda serves as a working platform equipped with state-of-the-art laboratories for physical, chemical, geological, and biological marine research. She is particularly designed for polar ice-edge studies. Aranda is owned by the Finnish Government and operated by the Finnish Environment Institute (Syke). While her main research area is the Baltic Sea, she has also sailed globally, in both Arctic and Antarctic waters.

Syke and VTT collaboration

Finnish Environment Institute (Syke) and VTT collaboration expands the use of Aranda from environmental research to new possibilities for the maritime industry to test, pilot and validate various technologies.

VTT conducts research and development on maritime technologies and Syke concentrates on marine environment.

Aranda offers a tailorable platform where customers can bring their own systems aboard to be tested.

Aranda's technical details

- Built 1989, refitted 2017—2018; length 66.30, width 13.80, draught 4.60 m, 10 knots (max 13), propulsion power 3,000 kW
- Cruising endurance 60 days, researchers 27, crew 14, laboratories 260 m²
- Navigational instruments: Fully integrated Furuno Bridge system with dual ECDIS
- Inmarsat Fleet 77, Inmarsat C, VHF/MF/HF, MF/HF telex, DSC VHF/MF, VHF GSM, VSAT

Full-scale testing capabilities

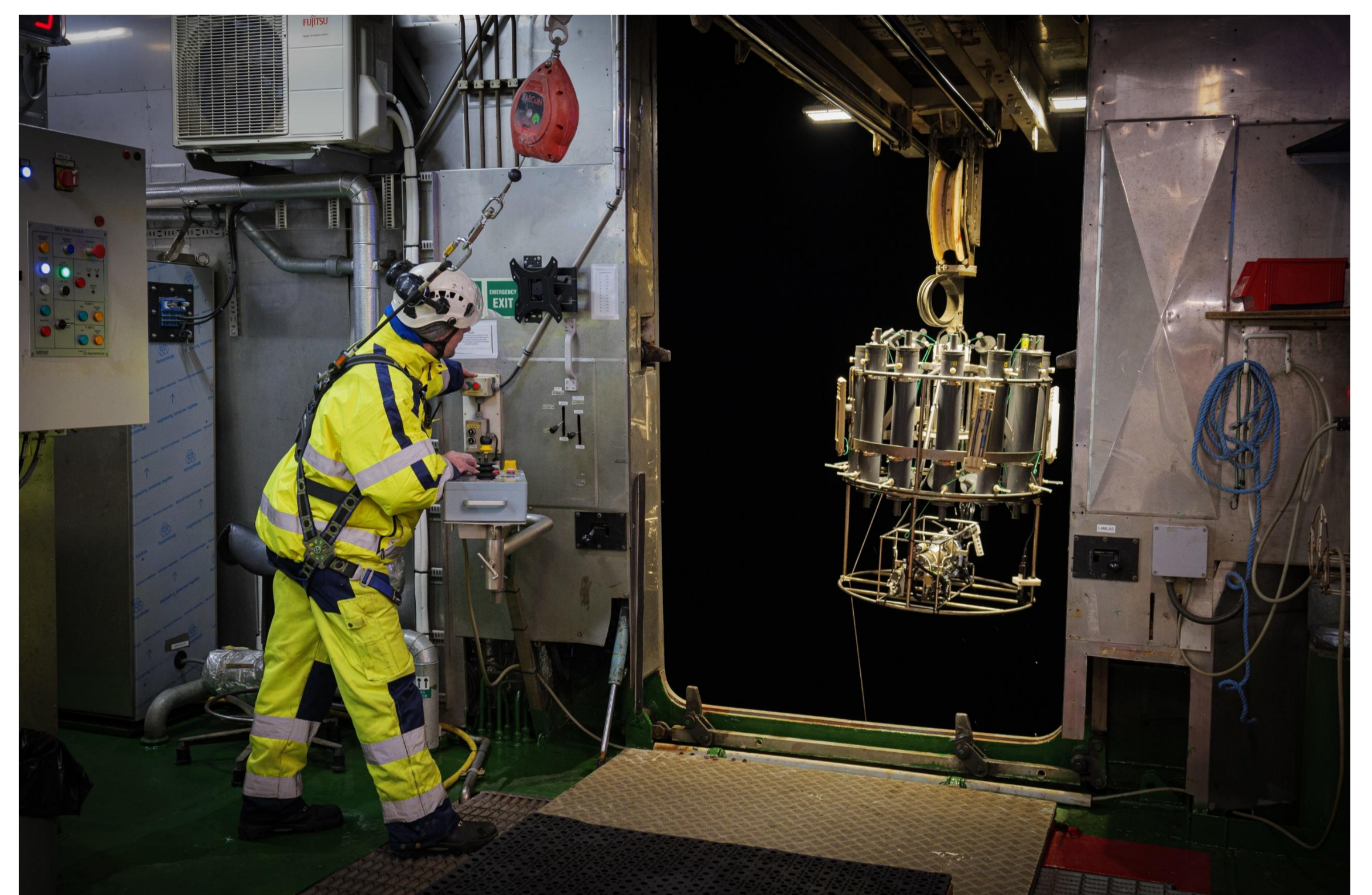
R/V Aranda provides an excellent platform to develop the research on maritime technology and innovations.

- Hydrodynamic research/validation of propulsion, cavitation and underwater noise
- Smart and autonomous shipping: safe navigation and remote control systems
- Floating platform for uncrewed systems: drones, USVs and AUVs
- Digital twins and real-time ship simulation
- Fleet connectivity: integrated sensing and connectivity (ISAC) infrastructure in 5G/6G
- Testing of alternative energy carriers: batteries, fuel cells, ammonia, etc.

For the rental of Aranda, please contact Syke's Aranda office
 Panu Hänninen and Jarkko Moberg,
 E-mail: firstname.surname@syke.fi

Facts about R/V Aranda

- Designed for oceanographic, hydrographic, geophysical and geotechnical investigations, buoy mooring and ROV operations.
- Equipped with comprehensive hydroacoustic equipment.
- Can operate numerous geophysical and geotechnical devices.
- Dynamic positioning system ensures excellent station-keeping, even in demanding ocean conditions.



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