

## Converted 2011 – Technical Details



<b>Flag:</b>	Germany
<b>Classification:</b>	GL 100 A5 M E (Dry Cargo Ship)
<b>Owner:</b>	Land Mecklenburg-Vorpommern
<b>History:</b>	1987 built as research vessel for German Navy by Kröger-Werft Rendsburg 2010 purchased by Land Mecklenburg-Vorpommern, and converted in 2011 to a multi purpose research vessel at Peene Werft in Wolgast
<b>Management:</b>	Technical management: BRIESE Schiffahrt GmbH & Co KG, Abt. Forschungsschiffahrt Scientific coordination: Leibniz- Institut for Baltic Sea Research Warnemünde (IOW)
<b>Personnel:</b>	Crew: 11 Scientists: 12
<b>Basic dimensions:</b>	BRZ: 850 Length o.a.: 56,50 m Length p.p.: 50,00 m Beam: 10,80 m Draught: 3,65 m Free board: 1,70 m Service Speed: 11 kn
<b>Propulsion:</b>	diesel-electric; Permasyn-motor single propeller
<b>Manoeuvring propulsion devices:</b>	transverse thrusters (147 kW each), at bow and stern
<b>Container:</b>	2 places for 20 ft. à 15 t incl. infrastructure also possible 4x 10 ft. container

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<b>Main engine:</b>	3 diesel generators (530 kW each) Typ Scania D11655M
<b>Navigation Equipment:</b>	2 radars, gyrocompass, ECDIS and auto-pilot, echo sounders, DOLOG, 3 GPS-Systems
<b>Scientific Equipment:</b>	DWD-weather-station, Data system D-SHIP® by WERUM Surface water thermosalinograph, Clean seawater system, ADCP VM Ocean Surveyor OSII 150 kHz, SES2000 medium, sediment echo sounder by INNOMAR, 100kHz R2Sonic 2024, Broadband multibeam echosounder 200-400 kHz Motion Reference Unit (MRU) IXSEA Phins Hydrographic well CTD-system with vessel swell moving compensation Utility and fast rescue boat
<b>Communication:</b>	GSM- Tel.& Fax, IRIDIUM, V-SAT- (digital data-transmission), Wireless station with GMDSS for area A3
<b>Lifting gear:</b>	Hydraulic crane SWL 4,5 t/ up to 8 m with own winch 400 m Hydraulic crane 1,5 t/ up to 6 m with own winch 300 m A- frame 4 t Provisions Crane on forecastle 0,9 t
<b>Special winches:</b>	CTD-winch up to 1500 m with cable Ø12,7 mm, Double drum hydraulic winch (mobile) 1 t with 600 m coaxial tross cable Ø8,1mm/ 1000 m steel rope 6 mm
<b>Laboratories:</b>	all labs with LAN, PC, miscellaneous media, universal lab 16 m <sup>2</sup> cold storage lab (adjustable 4- 23 °C) 11 m <sup>2</sup> wet lab 17 m <sup>2</sup> CTD room (with gate to outboard) 11 m <sup>2</sup> measuring room 8 m <sup>2</sup> hydro acoustics control 14 m <sup>2</sup> surface registration room 9 m <sup>2</sup>
<b>Accommodation:</b>	11 x one bed cabins, air conditioned 7 x two bed cabins, air conditioned

