

German Research Vessels

POLARSTERN • SONNE • METEOR • MARIA S. MERIAN
POSEIDON • ALKOR • HEINCKE • ELISABETH MANN BORGESSE



RV POLARSTERN

launched: 1982
length: 118 m
beam: 25 m
crew/science: 44/53

- Renewal of 4 lifeboats and adaptations according to Polar Code.
- Renewal of scientific cold stores and maintenance work in view of the age of the vessel.
- Preparation for MOSAiC project.
- Arctic and antarctic expeditions with supply of German Neumayer-Station III in Antarctic.
- Ongoing shipyard tender process for built of POLARSTERN II.



RV SONNE

launched: 2014
length: 116 m
beam: 21 m
crew/science: 32/40

- Planned drydock in July 2019 (Singapore), incl.:
 - Overhaul of two main engines and both rudder engines.
 - Cleaning and overhaul of hull and tank coatings.
 - Final processing of guarantee-claims.
 - Condition assessment after first five years of operation.
 - First class renewal.



RV METEOR

launched: 1986
length: 98 m
beam: 16 m
crew/science: 33/30

- Overhaul of all four main engines, steering gear, retractable bowthruster and propeller shaft.
- Conversion of the refrigeration systems to a climate-friendly refrigerant (GWP<1400/1800).
- Renewal of EM710 RX-transducer and clean seawater pump.
- Various steelworks and overhauls of hull and tank coatings as well as on the interior, hydraulic and electrical systems.



RV MARIA S. MERIAN

launched: 2006
length: 95 m
beam: 19 m
crew/science: 23/23

- Planned drydock in Sept/Oct 2019 including:
 - Overhaul of two main engines and all main drive inverters.
 - Exchange of one pod-drive against an overhauled one.
 - Blasting of hull and some tanks and renewal of the coating.
 - Hard- and Softwareupgrade on the DP-System.
 - Clean seawater system overhaul.
 - EA600 transducer installation.



RV POSEIDON

launched: 1976
length: 61 m
beam: 11 m
crew/science: 15/11

- Overhaul of diesel generators (12.000 hours service).
- Welding of pittings in the bilge of the engine room.
- Renewal of the probe container for the fluorometer, sound velocity and temperature probe.
- Repair works at the main crane.
- Decommissioning planned for 2020.
- One single new research vessel is supposed to replace both RV POSEIDON and RV METEOR.



RV HEINCKE

launched: 1990
length: 55 m
beam: 12 m
crew/science: 12/12

- Extensive renovation of all cabins, corridors and wet cells.
- Renewal of the deck's coating.
- First big overhaul of the exhaust treatment (particle filter + SCR).
- Installation of new fiber optic gyro compass to comply with the new Polar Code.
- Video encoder installed for video streaming inside of ship's network.
- Overhaul of all three main engines.



RV ALKOR

launched: 1990
length: 55 m
beam: 12 m
crew/science: 11/12

- Overhaul of the main crane.
- Extension of the function of the radar equipment.
- Renewal of the navigation system.
- Overhaul of the fresh-water tanks.
- Repair works at the heating system.
- Repair works at the trawl winches.



RV ELISABETH MANN BORGESSE

launched: 1987
length: 56 m
beam: 11 m
crew/science: 11/12

- Disassembly of R2Sonig multibeam for repair by manufacturer.
- Renew of DOLOG.
- Partial renovation of drinking water pipes.
- Short docking for class renewal (1 week) in January 2019.
- Bigger overhaul planned at the end of 2019.