

German Research Vessels

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



RV POLARSTERN

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

- Renewal of shaft generator.
- Major overhaul of cranes and hoists.
- New ice resistant underwater paint.
- Arctic and antarctic expeditions with supply of German Neumayer-Station II 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

- Installation of a garbage gasification system.
- C-band communication installed.
- New in-situ seawater measurement system.
- Improvements after first three years in service: air conditioning, exhaust gas treatment, ship automation, deck lightning, rope guiding system, physical scientific data network.
- Overhaul of two diesel generators.



RV METEOR



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

- Parasound MK2 upgrade.
- Replacement of Posidonia USBL System.
- Hardware exchange of integrated bridge navigation system.
- Sandblast of vessel hull and overhaul of steering gear.
- Reinforcement of deck substructure for MEB0 200.
- One single new research vessel is supposed to replace both RV POSEIDON and RV METEOR.



RV MARIA S. MERIAN



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

- Installation of Sonardyne Ranger II with deployment machine.
- Overhaul of three main engines and seismic compressors.
- Retrofit of bridge equipment: Ice Radar and NACOS System.
- A-frame upgrade for MeBo200 use.
- Overhaul of one diesel generator.
- Repairs to vent pipes and winches.



RV POSEIDON

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

- Installation of CO2 System for pH value of drinking water system.
- Overhaul of diesel generators and auxiliary engine.
- Overhaul of steering gear, winches, and hydraulic systems.
- Corrosion repairs.
- Decommissioning planned for 2020.
- One single new RV vessel is supposed to be replaced both RV POSEIDON and RV METEOR in about 2022.



RV HEINCKE

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

- Renewal of rescue boat with new davit system.
- Major overhaul of messroom, public area, and part of cabins.
- First bigger cleaning of black carbon filter.
- New fire detection system.
- Overhaul of main and auxiliary crane.
- Overhaul of scientific winches with new fibre optic 11mm cable.



RV ALKOR

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

- Overhaul of pumpjet and active winch control.
- New fire detection system.
- Overhaul of anchor winch.
- Renewal of circuit breakers and radar equipment.
- Repair works at the crane lifting provisions.
- 500th research cruise ALK500 of RV ALKOR in 09/2017.



RV ELISABETH MANN BORGESE

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

- Overhaul of diesel generators.
- New K_a-band antenna for improved internet connection.
- Installation of scientific data monitoring system D-Ship Werum.
- Implementation of new in situ seawater system based on self monitoring boxes SMB.
- Overhaul of FIN stabilisers.