

GERMAN RESEARCH VESSELS*

* except RVs from the Ministries of Defence (1 RV), Agriculture (3 RVs), Transport (6 RVs)



POLARSTERN

Last 35 years in operation for AWI, Bremerhaven
 - Arctic & Antarctic expeditions
 - 310 days per year
 - Supplies German Antarctic Neumeyer-Station-III



- Replacement for Polarstern is in the process of planning.
 Shipyard tenders are being reviewed.



METEOR



- In 2016 there was no dry dock overhaul and no significant occurrences
 - Next dry dock overhaul is planned for October 2017 in Varna
 - Hull blasting
 - Painting and repair work
 - The German government decided that one new research vessel will be built supposed to replace both, METEOR and POSEIDON.



SONNE

- The first two years of operation were successfully accomplished without any notable failures
 - Good usage as multidisciplinary research vessel.

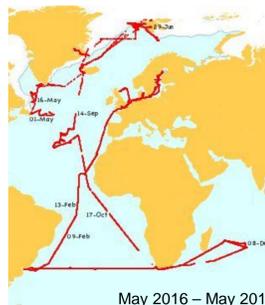


- The first dry dock overhaul is planned for end of 2017 in Germany, mainly guarantee work and granted improvements are performed.
 - Installation of a waste incineration system including a new room behind the ship's chimney
 - Complete redesign of the pure water system
 - Rectification of pending claims
 - Improvements regarding system accesses, deck illumination and automation



MARIA S. MERIAN

- Dry dock overhaul in March/April 2017
 - Main tasks performed were:
 - Installation of an EM 712 0,5 x 0,5° Multibeam echosounder with arctic-tank (first system worldwide in this configuration)
 - Installation of an Optimarin Ballast Water System
 - Installation of a new POD with a newly developed rotor positioning encoder
 - New VDR
 - Upgrade to DSHIP-3
 - Painting work
 - Vessel class related work



- A second shipyard period is planned for October 2017
 - Here: Modernisation of the underwater positioning system



- In November / December 2016 the vessel was docking at Lindenau ship yard in Kiel.
 - Intermediate class survey.
 - Renewal of shaft sealings.
 - Extensive work on the fresh water system.
 - Painting work on vessel, winches, and A-frame
 - Inspection and maintenance work in electrics.

ALKOR

POSEIDON

- In 2016 the vessel became 40 years old
 - In November / December 2016 docking at the ship yard of Lindenau in Kiel
 - Work on the steel framework
 - Electrical work at the ship's propulsion system
 - Maintenance work on the deck machinery
 - Upgrade to DSHIP-3
 - Because of the short remaining operation time of up to 2019 no nice-to-haves were realized.



ELISABETH MANN BORGESSE



- Docking in Peene ship yard, Wolgast in January 2017
 - Class renewal
 - Work on the steel framework
 - Cleaning and painting of tanks
 - Overhaul of bow thruster
 - Renewal of shaft seals with inspection of propeller shaft
 - Mechanical overhaul of fin stabilizers

- In December 2016 / Januar 2017 the vessel was docking at BREDO ship yard in Bremerhaven
 - Intermediate class survey.
 - Renewal of shaft sealings.
 - Major overhauls on main crane, A-frame, side boom, 4 drum winches, anchor winch
 - Renewal of main deck hangar
 - Sandblast of all tanks and new conservations
 - Upgrade to DSHIP-3

HEINCKE

