

Construction RV *Anna Weber-van Bosse*



Progress report #30: September 2025



INTRODUCTION

The RV *Anna Weber-van Bosse* will become the ocean-going research vessel of the Dutch national research fleet. This fleet is managed and operated by the National Marine Facilities (NMF), a division of the Royal Netherlands Institute for Sea Research (NIOZ). The NMF fleet will consist of three ships that will facilitate research in shallow coastal areas and the open ocean. The Anna Weber-van Bosse is being built at Astilleros Armon in Vigo under construction number 147. Delivery is scheduled for the end of 2025.

A LOOK BACK OVER THE PAST MONTH

The second section of the aft deck, together with the wall of the various stores, has been sandblasted and painted. The shipyard can now begin installing the PVC deck covering. In the engine room, various tanks have been sandblasted and painted. The first technical room has now been painted.

Dimanlab has started installing all the laboratory equipment and furniture on the ship. The layouts of the various laboratories are now clearly visible. The work will be completed in the coming weeks.

Work on the accommodation is progressing steadily. The decks for the scientists and crew are coming along nicely and the carpenter is busy finishing skirting boards, installing furniture, hanging curtains, etc. The finishing of the floors in the corridors on these two decks is now complete. The sports equipment has been installed in the gym as designed by NIOZ and Armon. We will be making a few minor practical changes here. The carpenter has also started installing the furniture in the mess room, lounge and meeting room on the C deck. The ceilings have been installed and the floor covering has been laid.

The installation of components on board is progressing well. Everything that arrives is installed fairly quickly, and around 95% of the large components are now on board. However, various components on the aft deck have been temporarily removed for protection so that this area can be fully blasted and preserved. After blasting and painting, these components will be reinstalled.

The HVAC system on board is nearing completion and almost all pipes have been connected to the HVAC units. Teknotherm will start commissioning the various systems shortly.

The shipyard is busy connecting and testing the computer network. TV, telephone and internet connections are being installed in the cabins and everything is also being connected in the server rooms so that the NIOZ ICT department can start the integration process. All Inmarsat antennas (V-Sat, FBB, 4G and LEO) have also been installed on the top deck.



The planned maintenance system is now online at Marad for the Anna Weber – van Bosse. The crew has started checking whether all tasks and maintenance issues for the various components and systems have been included.

The NIOZ health and safety coordinator visited the shipyard in Spain to check compliance with health and safety guidelines. This resulted in a number of minor action points, which are currently being addressed by the NIOZ site team. The NIOZ ICT team started work in Vigo at the end of the month with three people. They will have about three weeks of work to set up everything digitally so that the shipyard systems, such as CCTV, can also run over the network.

In terms of commissioning, the shipyard has started up the various systems. The harbour/emergency generator has been tested and approved, together with the associated systems. The generator has been run under load via a water resistor. In an emergency, the generator is cooled via a radiator and during normal harbour operations via the cooling water system in the engine room. This is to prevent noise pollution on deck. Start air compressors have also been approved.

PROGRESS

The shipyard and its subcontractors are busy completing the hull. The crew on board is well-staffed and a considerable group of people from all relevant disciplines are currently at work. These include pipe fitters, ironworkers, welders, insulators, cable pullers, carpenters, etc.

Work is progressing well on the accommodation decks. Most of the ceilings have been installed in the various rooms. The shipyard has started finishing work on the science deck and crew deck. This involves hanging curtains, soap dishes and hooks in the wet rooms, etc. These cabins have also been cleaned so that they look neat and tidy. Work is still in full swing in the mess room, lounge, galley and stores. Most of the furniture has been installed and this will be completed by the end of next month. In the wheelhouse, the carpenter is busy finishing the windows. This is a time-consuming job. The ceiling will be installed at the beginning of next month.

The shipyard is busy with the remainder of the other piping systems on board. The fresh water cooling system, bilge and ballast system, fuel, etc. are being installed in the various areas.

Commissioning and energising the systems has started. Ingeteam has started checking the switchboards and loading the software. Alarms and safety devices are also being tested. The propulsion engine, thrust bearing and two stern thrusters were run at the beginning of October. This was done without them being connected to the output shafts. Further testing will be carried out in the coming weeks.

The photographs below show the latest situation on board the ship.

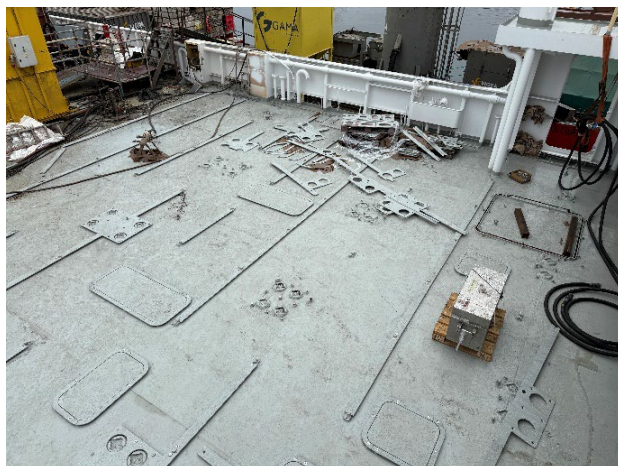


Port side

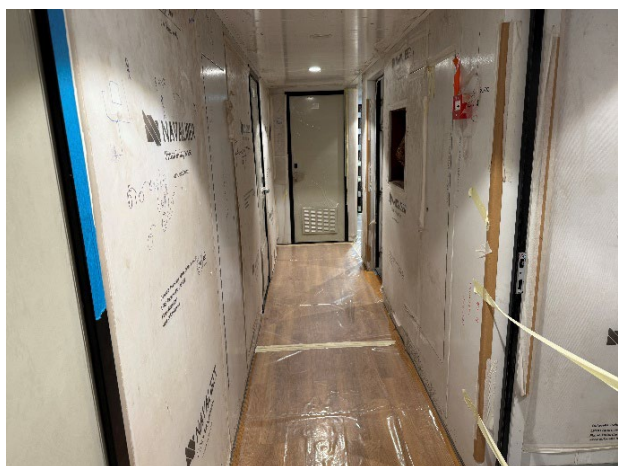


Side and rear deck

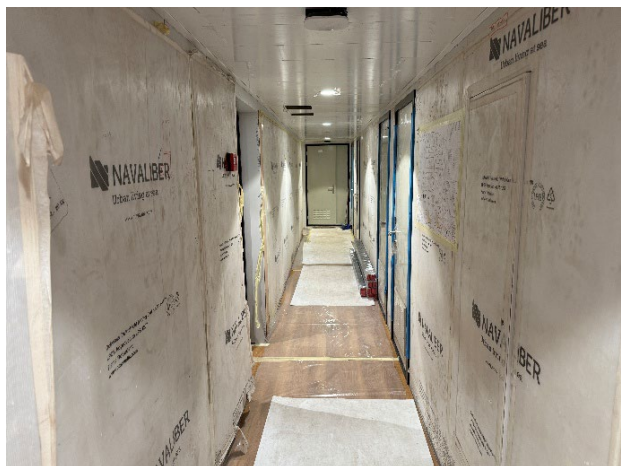




Rear deck with preparations for the covering

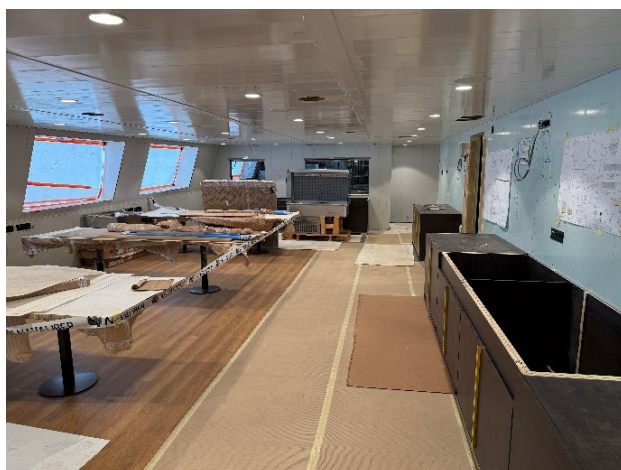


Corridors on the different decks



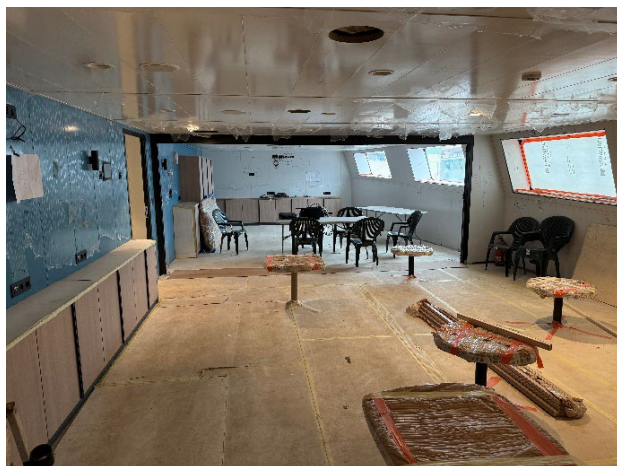


Engineer's cabin



Messroom





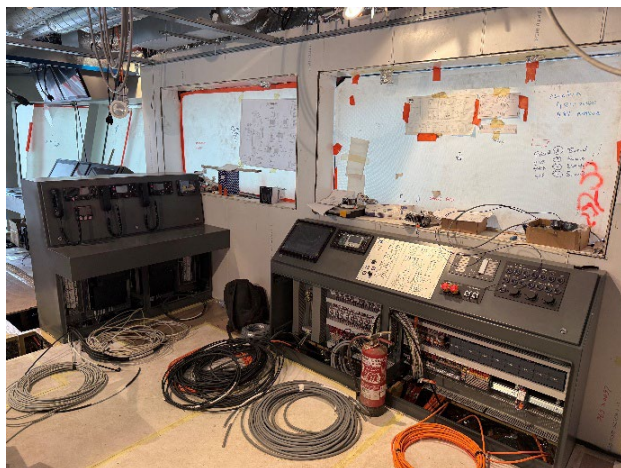
Lounge and meetingroom



Center console



DP console on starboard side



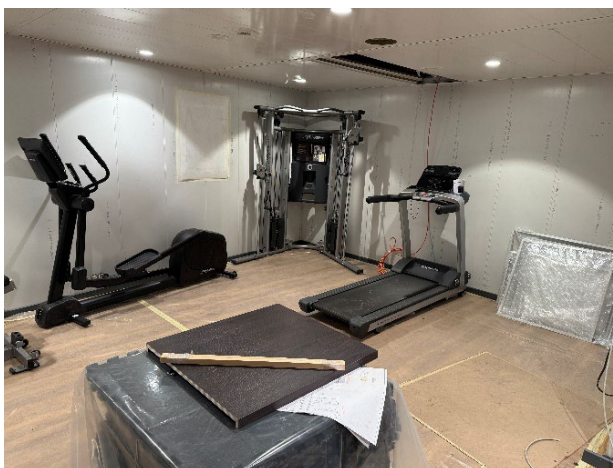
Safety console + GMDSS



BB bridge wing console (CTD side)



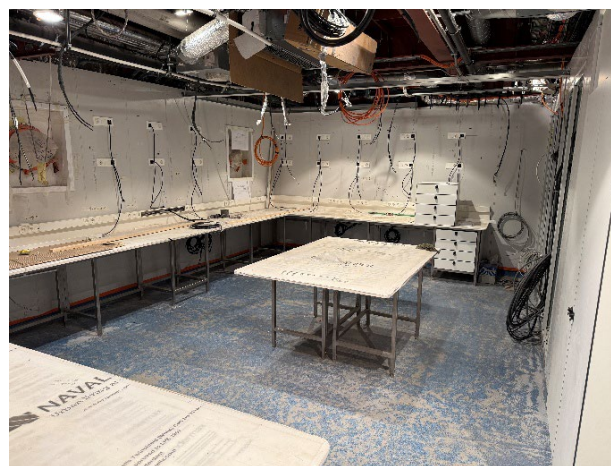
Galley



Gym



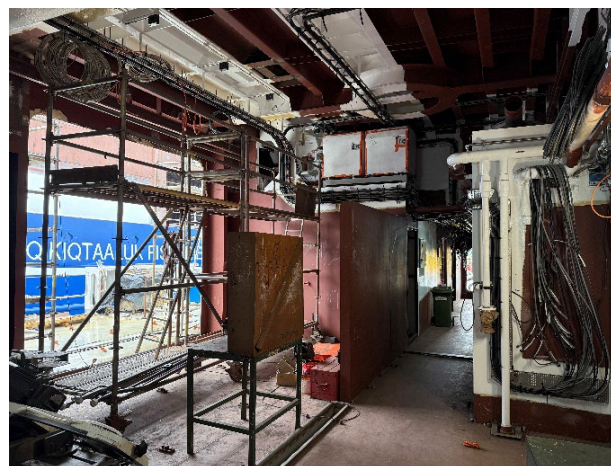
Wetlab



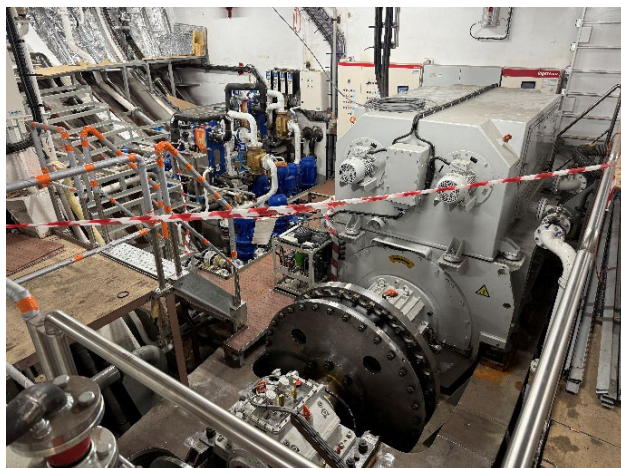
Drylab



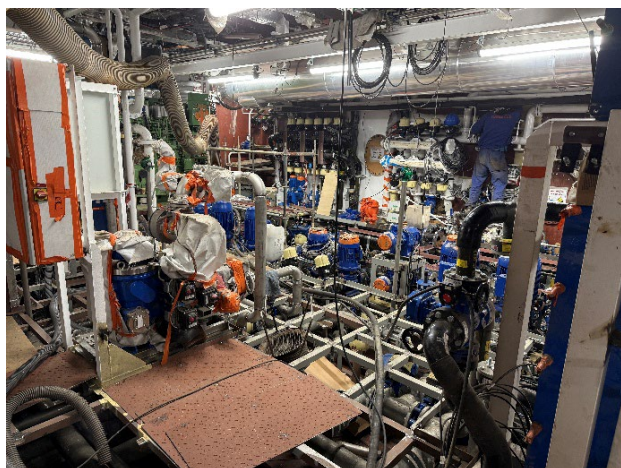
Mainlab



Geolab / Hangar



Propulsion room



ER tanktop



MK workshop



Container room with scientific cold storage and freezer rooms

SCHEDULE OF THE MONTH AHEAD

The completion of the accommodation and wheelhouse will continue at the same pace. The first rooms in the accommodation will be offered to NIOZ for final acceptance. The first technical rooms will also be further prepared in the coming month.

The ETS battery packs will be installed in the first week of October. A problem with a component of the battery racks has now been resolved. Ingeteam has started commissioning and will connect the batteries to the on-board network together with EST-Floattech.

Blasting and painting will continue, and the last tanks will be painted one by one after acceptance. The exterior painting will have to be done with more planning in view of the weather. Part of the outer decks has now been painted. The shipyard will soon start installing the recycled PVC deck covering.

Commissioning will continue unabated. The Armon team will be expanded with additional commissioning engineers. The propulsion system will be further tested by Ingeteam and accepted by NIOZ. The ABC main generators will also be started up this month. Kongsberg will start commissioning the navigation and communication systems. Kongsberg will also start with the M-Con system. This is the control system for all bow thrusters, stern thrusters, rudder and propulsion engine. Kongsberg Spain will start testing and calibrating the scientific equipment. The hydraulic system will be flushed in the second week of October, after which the power pack for the deck equipment can also be commissioned. From that moment on, the scientific frames and cranes can also be started up. Teknotherm will begin testing and adjusting all HVAC systems. This will take approximately five weeks to complete.



The NIOZ ICT team will continue with the technical configuration of the network software. Inmarsat will start connecting and commissioning all external communications. A test will also be carried out with the shipyard to retrieve data for scientific purposes from the ship's network.

More information can also be found at <http://www.NewResearchFleet.nl>