



Construction RV *Adriaen Coenen*



Progress report #3: May 2021

The RV *Adriaen Coenen* is a new shipbuilding project for the Dutch national research fleet. The fleet is owned and operated by the National Marine Facilities (NMF), a department of the Royal Netherlands Institute for Sea Research (NIOZ). The NMF fleet consists of three vessels capable of conducting research from the shallow coastal waters out into the open ocean.

The RV *Adriaen Coenen* is intended to replace the Wadden Sea research vessel RV *Stern*, and with its shallow draught of 1 meter it is specifically designed for day trips for research in the Wadden Sea or the Zeeland delta.

With a permanent crew of one, the RV *Adriaen Coenen* will offer state-of-the-art daytime facilities for a maximum of 12 passengers, and is equipped with rudimentary dry and wet lab facilities. The deck will also facilitate all of the research activities that an A- and a J-frame can offer.

The RV *Adriaen Coenen* is being built by Next Generation Shipyards in Lauwersoog, and will be completed in May 2022.

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Project management

To ensure good communications and the smooth construction of the RV *Adriaen Coenen* and its sister ship, the RV *Wim Wolff*, a project management team has been created with representatives from the client and the shipyard. This team will meet every two weeks, with additional technical meetings as necessary.



The project management team for the RV *Adriaen Coenen*, with Steven Bonder (left rear) and Dirk Keizer (right rear) representing NGS and Alex Cofino (left front) and Feico Hoogeveen (right front) representing NIOZ.



Dirk Keizer and Steven Bonder will represent Next Generation Shipyards in the project management team.

Dirk Keizer studied Mechanical Engineering at the Hanze University Groningen. From 2008 to 2015, he worked as a project leader at No Limit Ships B.V., also in Groningen. Since 2014, he has been employed as project leader and manager at Next Generation Shipyards B.V. in Lauwersoog.

Steven Bonder also studied Mechanical Engineering at the Hanze University Groningen, with a specialisation in Engineering & Energy. He did his final internship at Next Generation Shipyards B.V. with a study of the use of hydrogen in ships. After earning his degree in 2018, he started working at NGS full-time as project leader for new construction and hydrogen projects.

The team representatives for the NIOZ are also members of the project management team for the RV Wim Wolff: Alex Cofino and Feico Hoogeveen.

Alex Cofino has a wealth of experience in the maritime industry. He began his career as a Surveyor and Project Manager at DNV (Det Norske Veritas), before moving on to the position of Superintendent of New Construction at UECC, Operations Manager at TESO and then Asset Manager at Heerema Marine Contractors. He has served as the head of the National Marine Facilities (NMF) department at NIOZ since July 2019.

Feico Hoogeveen also has considerable of experience in the maritime industry, including the supervision of the construction of a large number of vessels. With his background as Director of New Construction at De Volharding Shipyards in Harlingen, Director of Navis Naval Management & Consultancy, Director of Operations at Abis Shipping Company and Managing Director of CIG Shipbuilding, he contributes some valuable expertise to the project. Since 2017, he has been a managing partner of Navis Naval Management & Consultancy, specialised in ship management and project management, including new construction support.

The project management team can also call on support from both Next Generation Shipyards and NIOZ as needed.

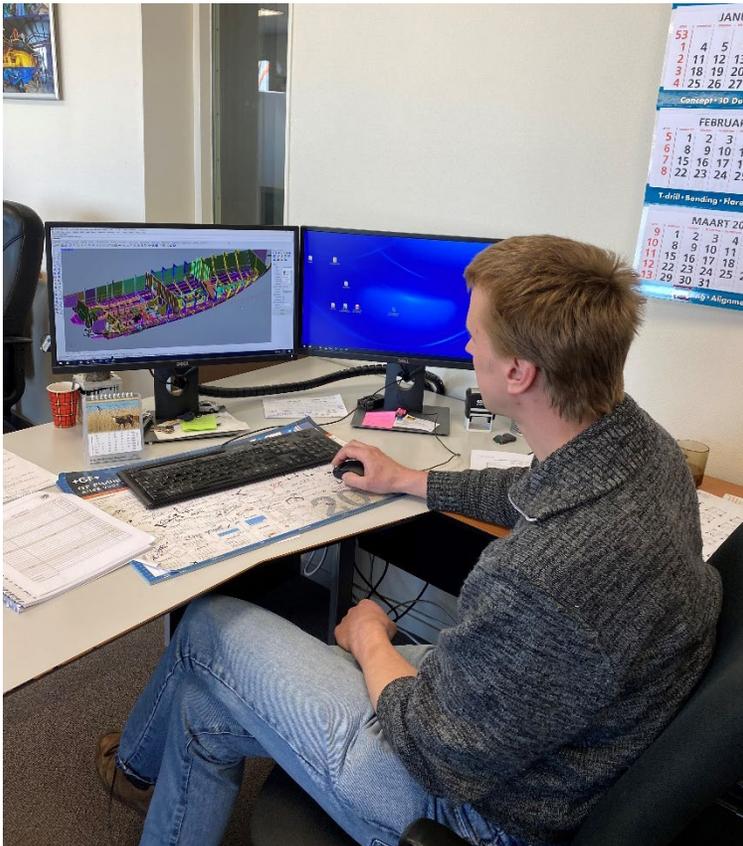
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The definitive design

The detailed design by Marimecs Marine Design and Engineering in Steenwijk has recently been digitally integrated at Next Generation Shipyards. That will make it possible for NGS to further optimise the design and to identify new opportunities and consequences of any changes.

For example, the integration of several tanks into the structure has achieved a significant weight reduction.



Digital 3D hull view of the RV Adriaen Coenen

NGS can split the definitive digital design of the aluminium hull into all of the necessary aluminium components, and then submit them to a specialist supplier of marine aluminium at the 'press of a button'.

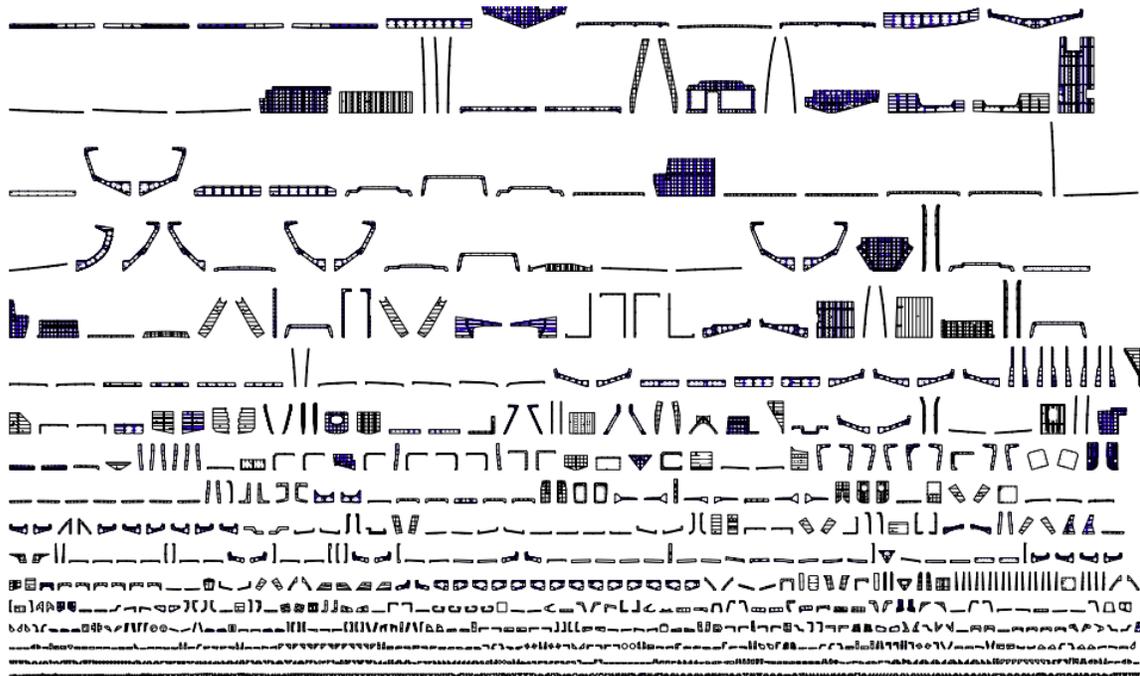


Illustration of part of the cutting package for the RV Adriaen Coenen

The aluminium hull is already prepared for production. The computer-controlled aluminium components will be produced for Next Generation Shipyards by Snijtechniek Brabant. Each aluminium component will be coded and labelled with a QR code that allows for instant identification of the component.

Snijtechniek Brabant will deliver the first aluminium components in late June.

Schedule for the near future

The following activities were scheduled for the month of June:

- start construction on the aluminium hull in Lauwersoog;
- finalise the interior details.
- selection of the communications supplier
- finalise the details for the electrical installation

For more information, please visit: www.NewResearchFleet.nl .

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