NIOZ update 2019-2023
New Fleet Update
Erica Koning – NMF NIOZ
May 2023
RVOC Duluth
Marine protected areas

Pelagia 2019 - 2023

- Maintenance
- Alongside
- Transit
- Science days
- Total science

2019: Maintenance (26), Alongside (44), Transit (11), Science days (16), Total science (11).
Recent operational issues

• Diplomatic clearance for Western Sahara and Morocco

• Scientist related issues:
  • Scientist’s personal information is provided via MFP.
  • Mandatory for scientists: seafarer’s medical and PST certificate.
  • Information to be provided on medical issues, allergies, dietary preference, next of kin.
  • We seem to have more allergies that we used to have.

• Recent issues:
  • Peanut allergy
  • Gluten allergy

• Prescribed cannabis

NRG 5 ZERO gluten en lactosevrij 24 dagen

• Compact en direct eetbaar
• 15 jaar houdbaar
• Aan te mengen met water
• Geen conserveringsmiddelen
• 24 x verpakking 500 gram
• 2.325 calorieën per dag

€ 275,00
NMF at NIOZ operates the Dutch national research fleet, containing of:

- 3 ships
- Personnel: crew, technical support, office
- National equipment pool

Dutch research fleet

Wadden Sea

Zeeland Delta
Dutch research fleet replacement

- RV Stern (14.6m)
- RV Navicula (23m)
- RV Pelagia (66m)

- RV Adriaen Coenen (19m)
  Summer 2022

- RV Wim Wolff (36m)
  October 2023

- RV Anna Weber van Bosse (80m)
  expected: Q4 2025
In operation since August 2022

**RV Stern**
- Length: 14.6m
- Speed: 15kn
- Age: 46 years

**RV Adriaen Coenen**
- Length: 19m
- Speed: 21kn
Technical information

- Engines: Scania (Stage V)
- Water jets: Hamilton
- Energy during cruising: HVO diesel engines
- Anchored/grounded: solar panels and battery pack
- Energy back up by small generator
RV Adriaen Coenen

Specifications

- Length overall: 19 m
- Beam: 5 m
- Draft: 0,8 m
- Material: Aluminum
- Speed: 21kn
- DP
- Crew: 2
- Passengers: 12 for day trips
- Features: A-frame, side frame, ADCP & Multibeam deployment, wet lab, dry lab, towing arrangement
Building process at Next Generation Shipyards in Lauwersoog, The Netherlands

This shipyard specializes in aluminum builds
RV Navicula

- A 40-year-old, 23m vessel
- Beam: 7m
- Draft: 1m
- Speed: 7kn
- operates in the Wadden Sea tidal area, Zeeland Delta, and near-coastal North Sea (only at very good weather).
- 3 crew + up to 8 scientists
The *RV Wim Wolff* is designed with a shallow draft of 1m, specifically for multi-day research trips in the Wadden Sea and Zeeland Delta.

Aluminum ship

being built by Thecla Bodewes Shipyards (TBSY) in Harlingen, The Netherlands

The expected delivery is in the **November of 2023**.
Specifications

• Length overall: 36 m
• Beam: 10 m
• Draft: 1 m
• Aluminum, battery capacity for 8hrs.
• Flat bottom to sit on the tidal flats
• Tunnel thruster and pump jet
• Gross Tonnage approx.: 420GT
• Working deck area approx.: ~125m²
• Speed: 12kn
• 3-4 crew + 12 passengers for maximum 2 weeks
• dry and wet lab
• 2 container spaces on the working deck
RV Wim Wolff
Update from May 2023:

RV Wim Wolff
12 scientists + 1 tech support + 12 crew (single berths).

Option for 9 additional persons

Container capacity:
3 - on D-deck aft
1 - in hold on D-deck
4 - in hold on tanktop
UCC container extra on D-deck when we operate the UCC

Additional storage: 1 container + 1 flatrack
Specifications

- Length overall: 66.05m
- Beam: 12.80m
- Draft: 4.20m
- Cruising speed / Maximum speed: 9kn / 11kn
- Diesel-electric
- Fuel consumption at cruising speed: ~4.5 m³ per day
- No DP
The RV Anna Weber-van Bosse will be built by Astilleros Armon A.S. in Vigo, Spain.

Contract was signed last December and we are currently finalizing the design with the yard.

Delivery is scheduled for Q3-Q4 of 2025.
RV Anna Weber van Bosse

Specifications

- Length overall 79.98m
- Beam 17.00m
- Draft 5.00m
- Accommodation 46 (16 crew and 30 scientists)
RV Anna Weber van Bosse

- Ice-class 1C
- Longer periods at sea with more people onboard
- Designed to be capable of handling large equipment: ROV’s, AUV’s, MEBO, ROCKDRILL etc.
- Piston cores up to 30m
- Main-, dry-, wet- and hangar/geolab
- Room for 12 laboratory containers (max 17)
- Dynamic Positioning (DP2)
- Methanol ready
- Aim for changeover refit after 10 years, possibly sooner
- Endurance when fully on methanol: 34 days
RV Anna Weber van Bosse

Working area: World wide,

Up to ice-edge in polar regions

Questions?