Royal Netherlands Institute for Sea Research

Update on NIOZ operations

New build update; farewell to *RV Pelagia*; over NIOZ – MFP

Dr. Zeynep Erdem

Science coordinator

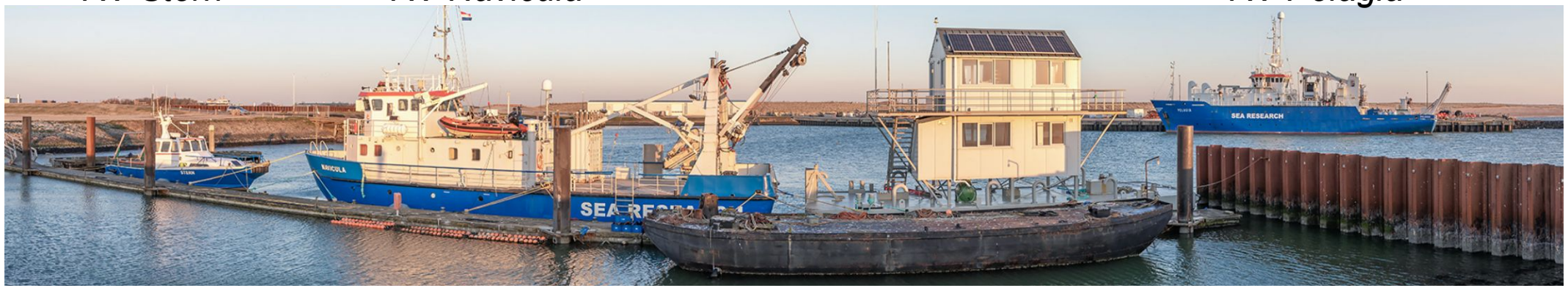
National Marine Facilities (NMF) NIOZ

RVOC 2025, online

Delaware, the USA

Renewal of the Dutch Research fleet

RV Stern *RV Navicula* *RV Pelagia*



RV Adriaen Coenen

In operation since August 2022

RV Wim Wolff

In operation since June 2024

RV Anna Weber-van Bosse

Planned delivery by the end of 2025.

RV Adriaen Coenen

Built in Next Gen. Shipyards in the Netherlands

In operation since August 2022

Used for day trips, small expeditions in the inland waters of the Netherlands

Specifications

- Length overall: 19 m
- Beam: 5 m
- Draught: 0.8 m
- Material: Aluminium
- Speed: 20 knts
- Engines: Scania (Stage V)
- Water jets: Hamilton

- Energy during cruising: HVO diesel engines
  Anchored/grounded: solar panels and battery pack
  Energy backup by a small generator

- Crew: 2
- Max # people: 12
- Features: A-frame, side frame,
  ADCP & Multibeam deployment,
  wet lab, dry lab, towing arrangement

RV Wim Wolff

- Built in Thecla Bodewes Shipyards in the Netherlands
- In full operation since June 2024
- Hybrid propulsion and sustainable fuel
- Operational area: coastal sea (within 20nm) and inland waters
- Large deck area
- 6 shared cabins for 12 scientists

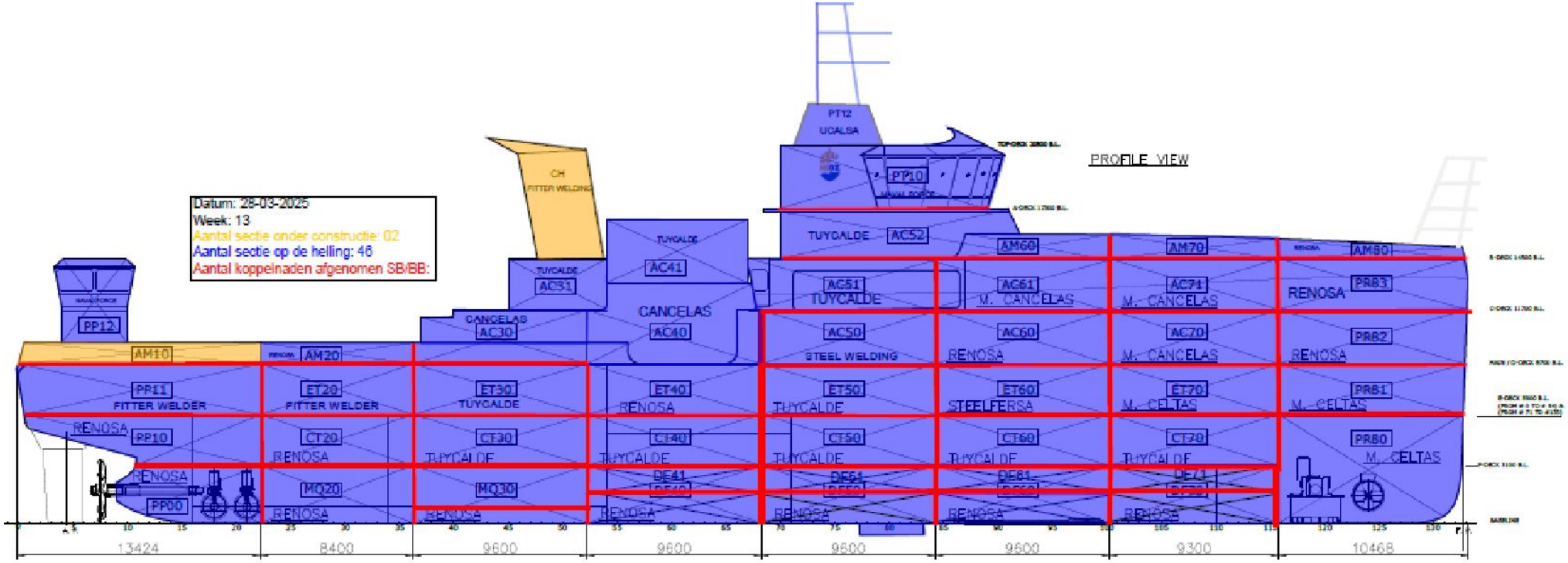
RV Wim Wolff

Specifications

- Length: 36 m
- Beam: 10 m
- Draught max.: 1.20m
- Working deck area approx.: ~125m^2
- Max. Speed: 12 knts
- DP 1
- 4 crew + 12 passengers
- dry and wet lab
- 2 container space on the working deck
- WASSP

- The hybrid diesel-electric system is designed for high redundancy and energy-efficient fuel consumption.
- The internal combustion Scania (Stage V) engines run on HVO
- Flat bottom feature allows tidal flat operations.

New build updates: *RV Anna Weber-van Bosse*



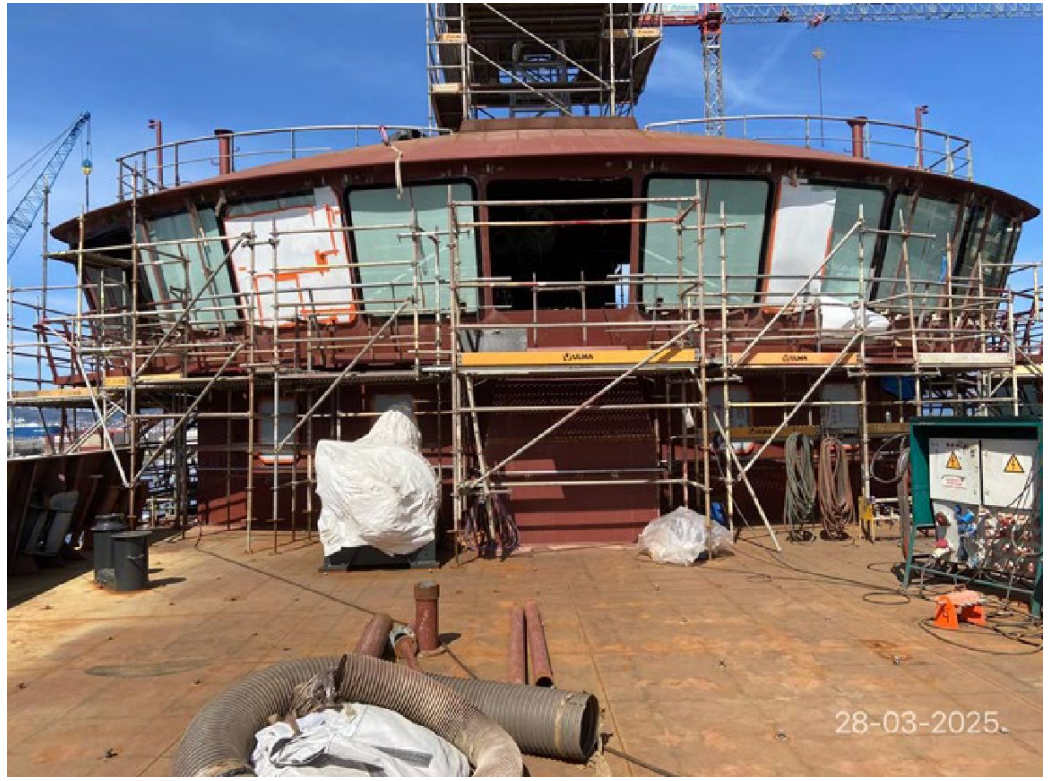
Last update from the March newsletter.

The *RV Anna Weber-van Bosse* is built by **Astilleros Armon A.S.** in Vigo, Spain.

New build updates: *RV Anna Weber-van Bosse*

[News RV Anna Weber-van Bosse - NIOZ]

27-03-25



Delivery
Autumn 2025

Science trials
Spring Summer 2026

Full Operation
Autumn 2026

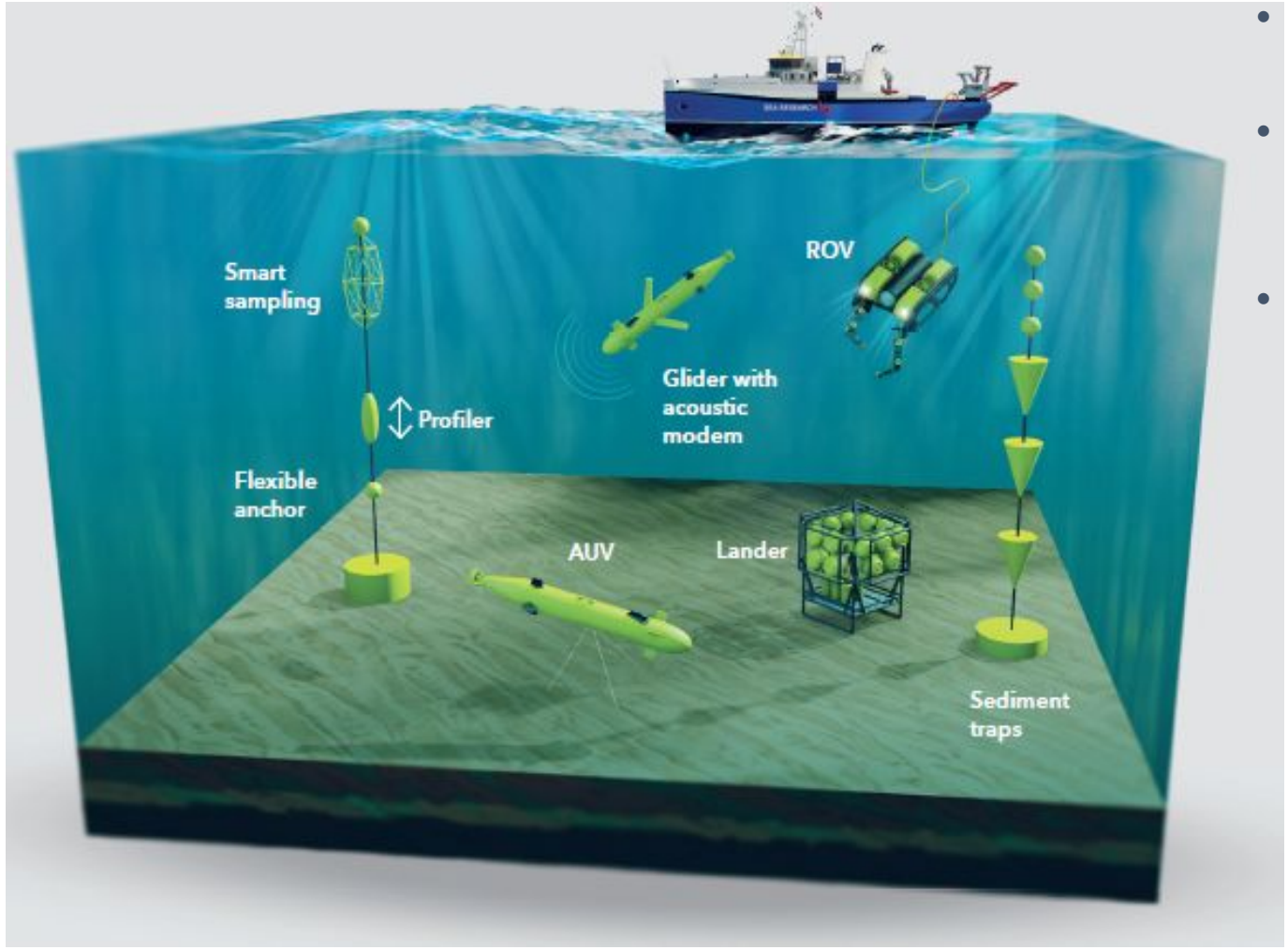
New build updates: *RV Anna Weber-van Bosse*

Specifications

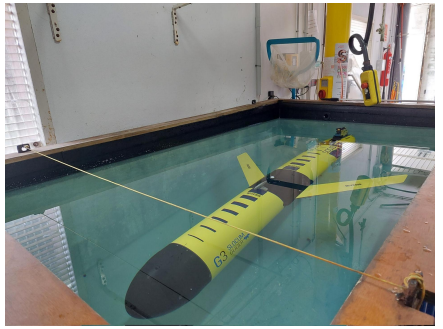
- Length overall 80m
- Breadth molded 17m
- Depth to main deck 8.70m
- Summer draught 5m
- Scantling draught 5.50m
- Accommodation 46
  (16 crew + 30 scientists)
  - Ice-class 1C
  - DP2
  - Main-, dry-, wet- and geolab
  - Room for 12 laboratory containers (max 17)
  - Methanol ready

New equipment

Coming years large-scale infrastructure



- 3 Teledyne gliders 1000m (in operation)
- AUV Teledyne Gavia 2000m (delivery in early 2026)
- ROV Kystdesign 6000 m (delivery in 2026)



Farewell to *RV Pelagia*

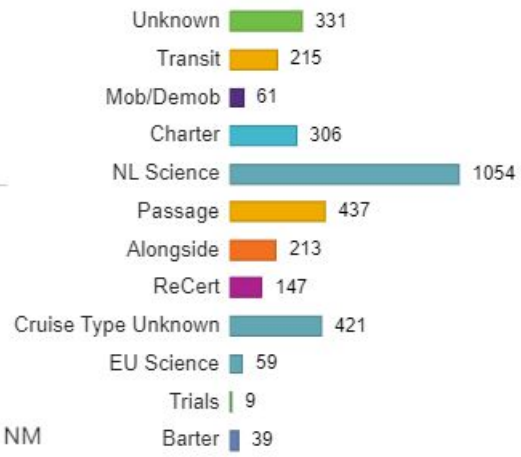
- Built in 1991 in the Netherlands for research in the North Sea
- Been mostly in the North Sea and over the years the operation expanded to the North Atlantic but also the Mediterranean and Black Sea, the Pacific and Indian Ocean.
- Retirement: October 2025

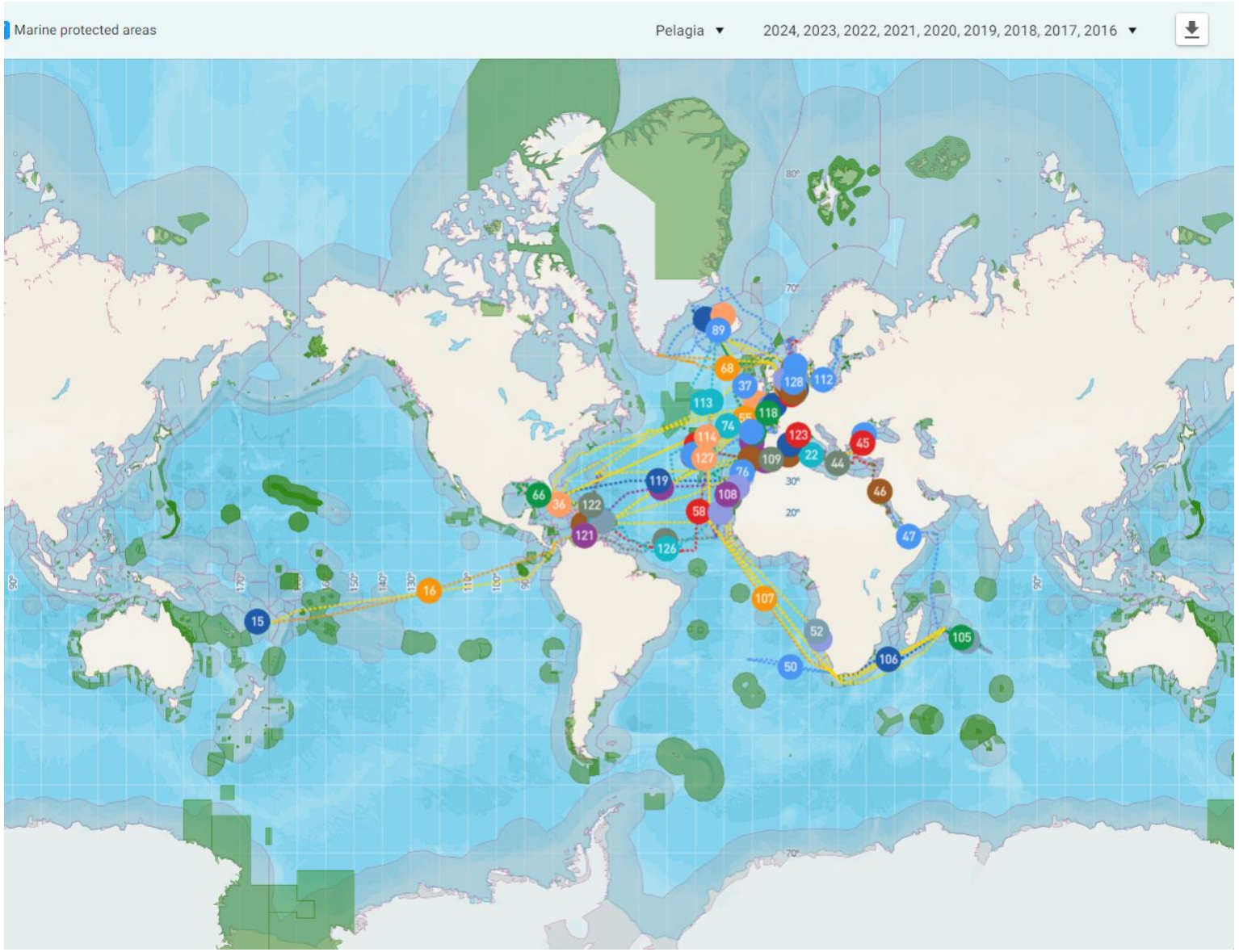
Foto: Archief Schuttevaer - Pelagia

RV Pelagia over the years

Since 2016 the planning is via MFP

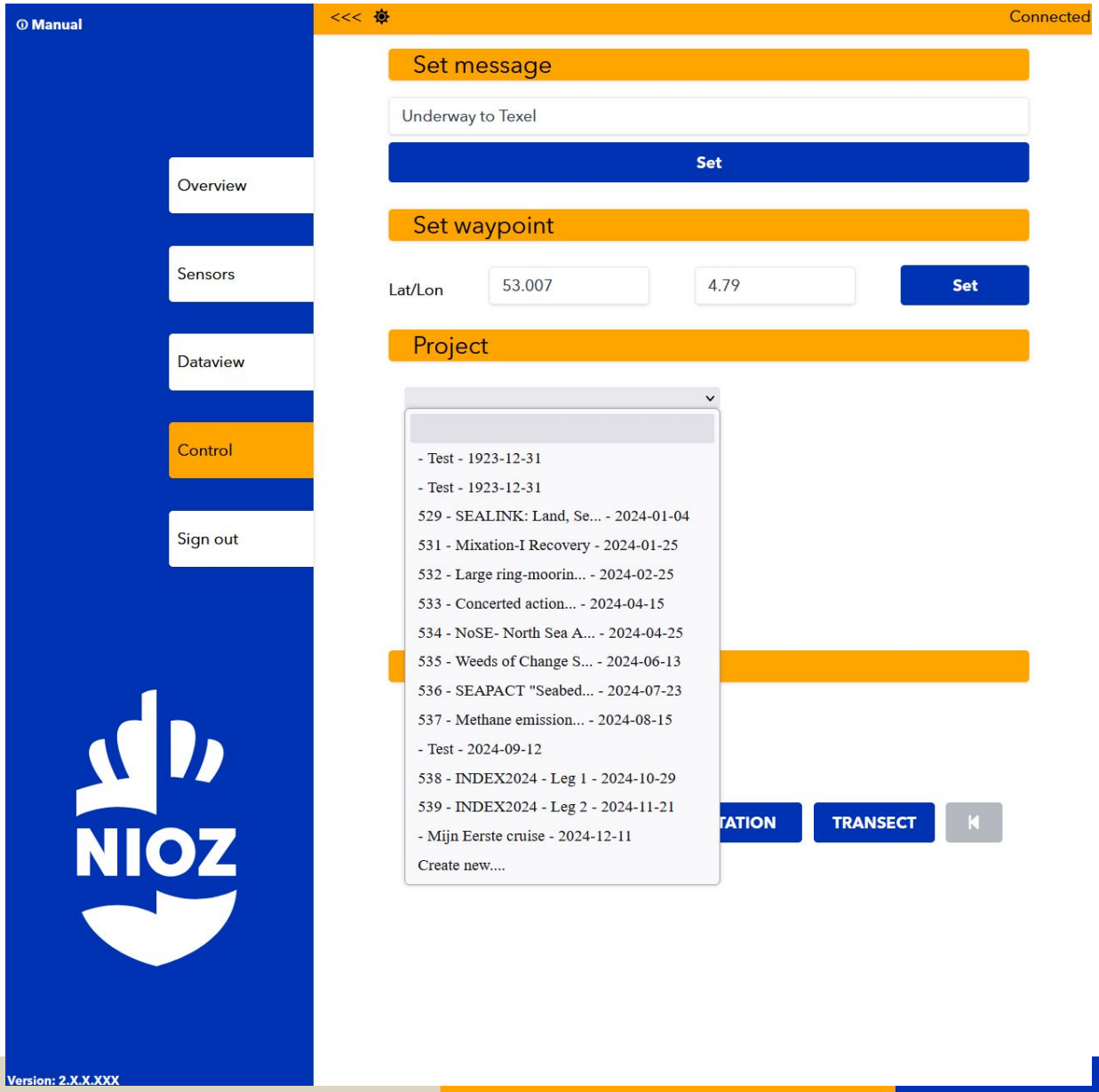
Days at sea:	**1999.4**
NL EEZ:	263.6
Foreign EEZ :	1041.9
International waters:	693.9
MPA :	226.5
Docked :	**810.3**
NL ports :	418.6
International ports :	391.6
Total distance covered :	275.681 NM

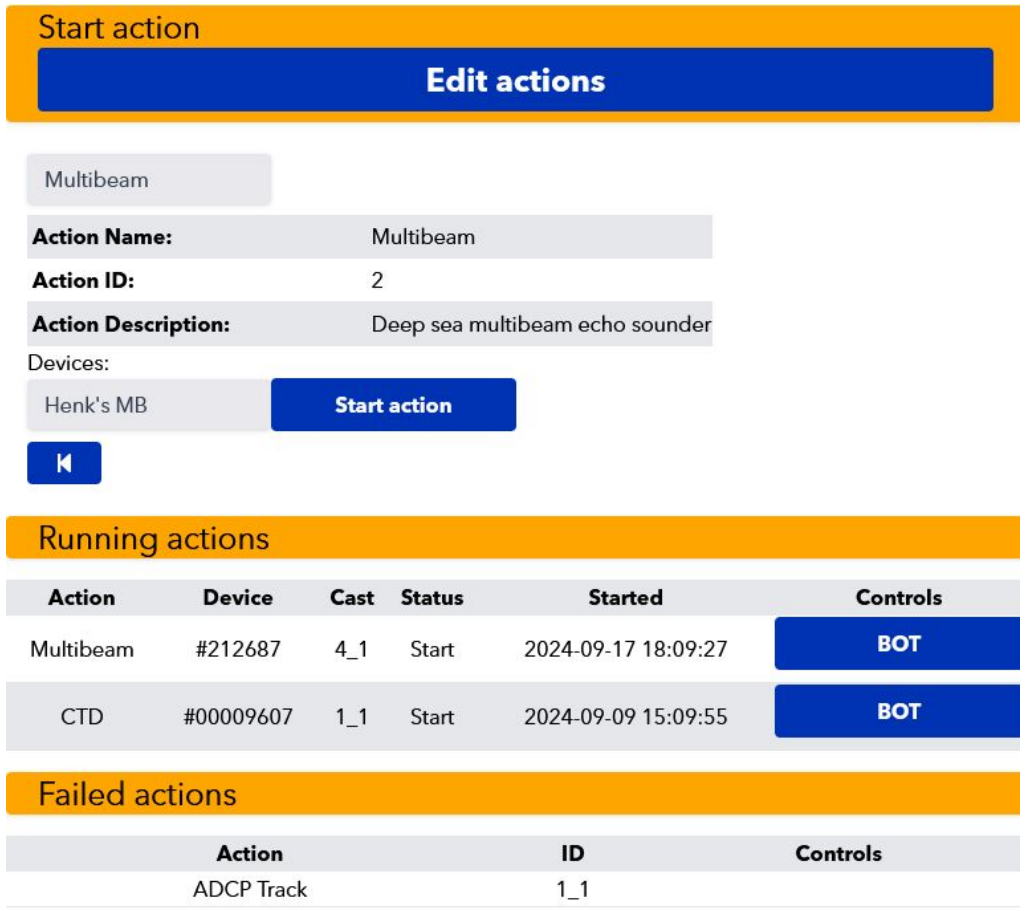




Screenshots taken MFP – reporting module

The “Shipsdata” & cruise log





The Ships data & cruise log

<< Connected | master | No active cruise | 2024-09-17 16:47:17 UTC

Dataviewer _20220819_64PE509_I_NANO

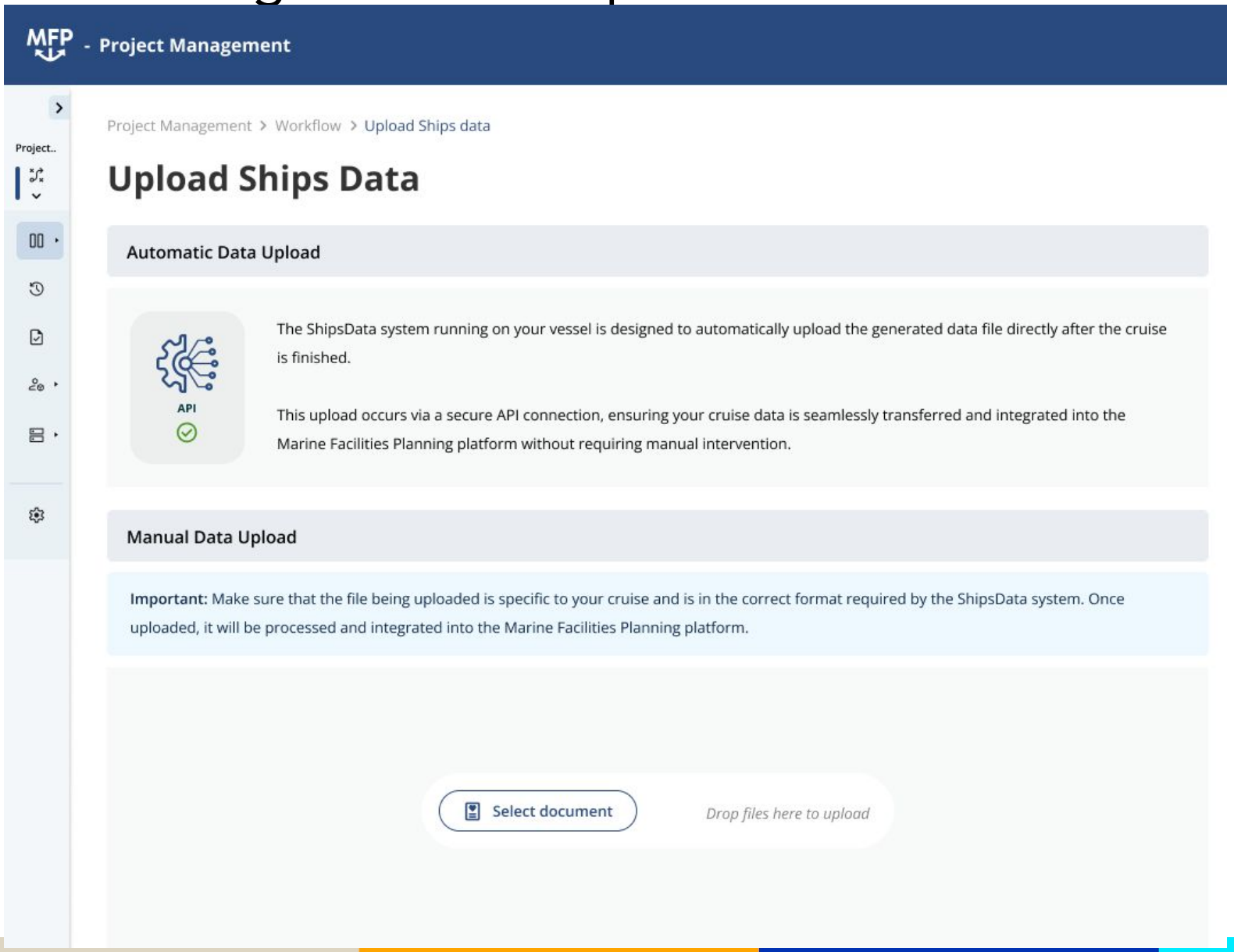
Select other cruise

Event summary

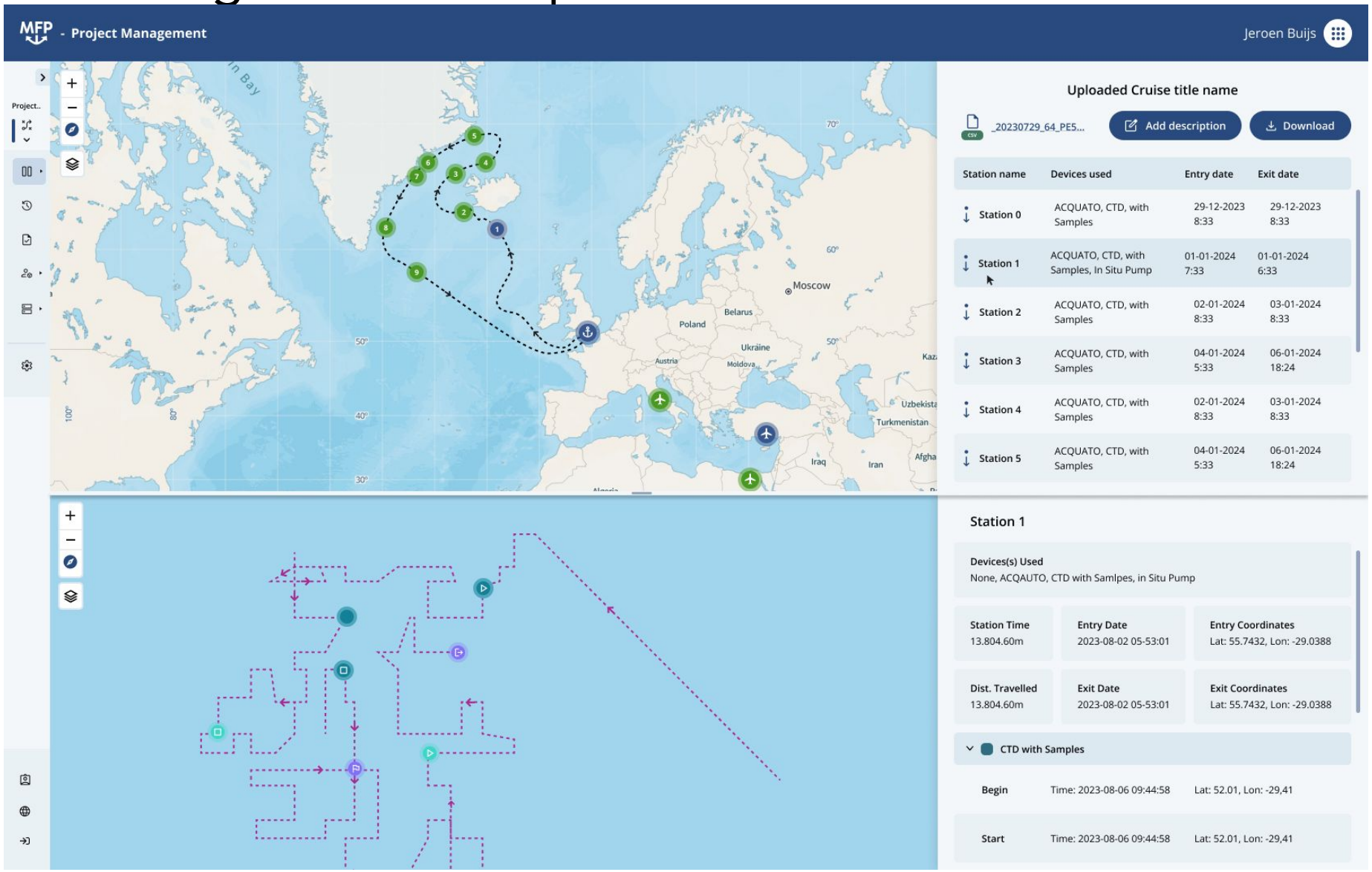
CTD Editor | Note | Export as CSV / ODV

	Seapath	Seapath						Seapath	Seapath	Seapath	Seapath	Seapath	Seapath	Seapath	Seapath	
Date	*latitude*	*longitude*	*Phase name*	*Device name*	*Action name*	*Operation Id*	*Cast*	*time*	*latitude direction*	*longitude direction*	*year*	*month*	*day*	*speed over ground*	*course over ground*	*sea*
YYYY-MM-DD hh:mm:ss	° north	° east												kn		
2022-08-23 09:35:47	36.2302	33.9005	STATION 2	CTD with Samples	BOT	64PE509CTDBOT2	2_5	93547			2022	8	23	0.4	284.07	
2022-08-23 08:52:28	36.2292	33.9012	STATION 2	CTD with Samples	BEGIN	64PE509CTDBOT2	2_5	85225			2022	8	23	0.2	60.39	
2022-08-23 08:32:33	36.2292	33.901	STATION 2	In Situ Pump	END	64PE509ISP2	2_4	83231			2022	8	23	0.3	63.13	
2022-08-23 08:05:48	36.2297	33.9005	STATION 2	In Situ Pump	STOP	64PE509ISP2	2_4	80546			2022	8	23	0.5	171.40	
2022-08-22 20:34:29	36.2293	33.9008	STATION 2	In Situ Pump	START	64PE509ISP2	2_4	203427			2022	8	22	0.2	166.28	
2022-08-22 20:30:36	36.2292	33.9007	STATION 2	In Situ Pump	BEGIN	64PE509ISP2	2_4	203033			2022	8	22	0.5	37.13	
2022-08-22 19:46:11	36.2288	33.8942	STATION 2	CTD with Samples	END	64PE509CTDBOT2	2_3	194610			2022	8	22	0.7	163.38	
2022-08-22 16:20:00	36.2298	33.9023	STATION 2	CTD with Samples	BOT	64PE509CTDBOT2	2_3	161958			2022	8	22	0.5	164.14	
2022-08-22 15:34:02	36.2292	33.9033	STATION 2	CTD with Samples	BEGIN	64PE509CTDBOT2	2_3	153400			2022	8	22	0.5	120.26	
2022-08-22 15:15:09	36.2292	33.9105	STATION 2	HD Video	END	64PE509HD2	2_2	151508			2022	8	22	0.1	105.86	
2022-08-22 14:30:59	36.2278	33.9097	STATION 2	HD Video	ENDTRACK	64PE509HD2	2_2	143057			2022	8	22	1.1	271.45	
2022-08-22 13:27:45	36.23	33.8987	STATION 2	HD Video	STARTTRACK	64PE509HD2	2_2	132746			2022	8	22	0.5	282.50	
2022-08-22 12:49:44	36.2297	33.8982	STATION 2	HD Video	BEGIN	64PE509HD2	2_2	124943			2022	8	22	0.6	339.07	
2022-08-22 12:34:19	36.2285	33.891	STATION 2	HD Video	END	64PE509HD2	2_1	123418			2022	8	22	0.5	289.81	

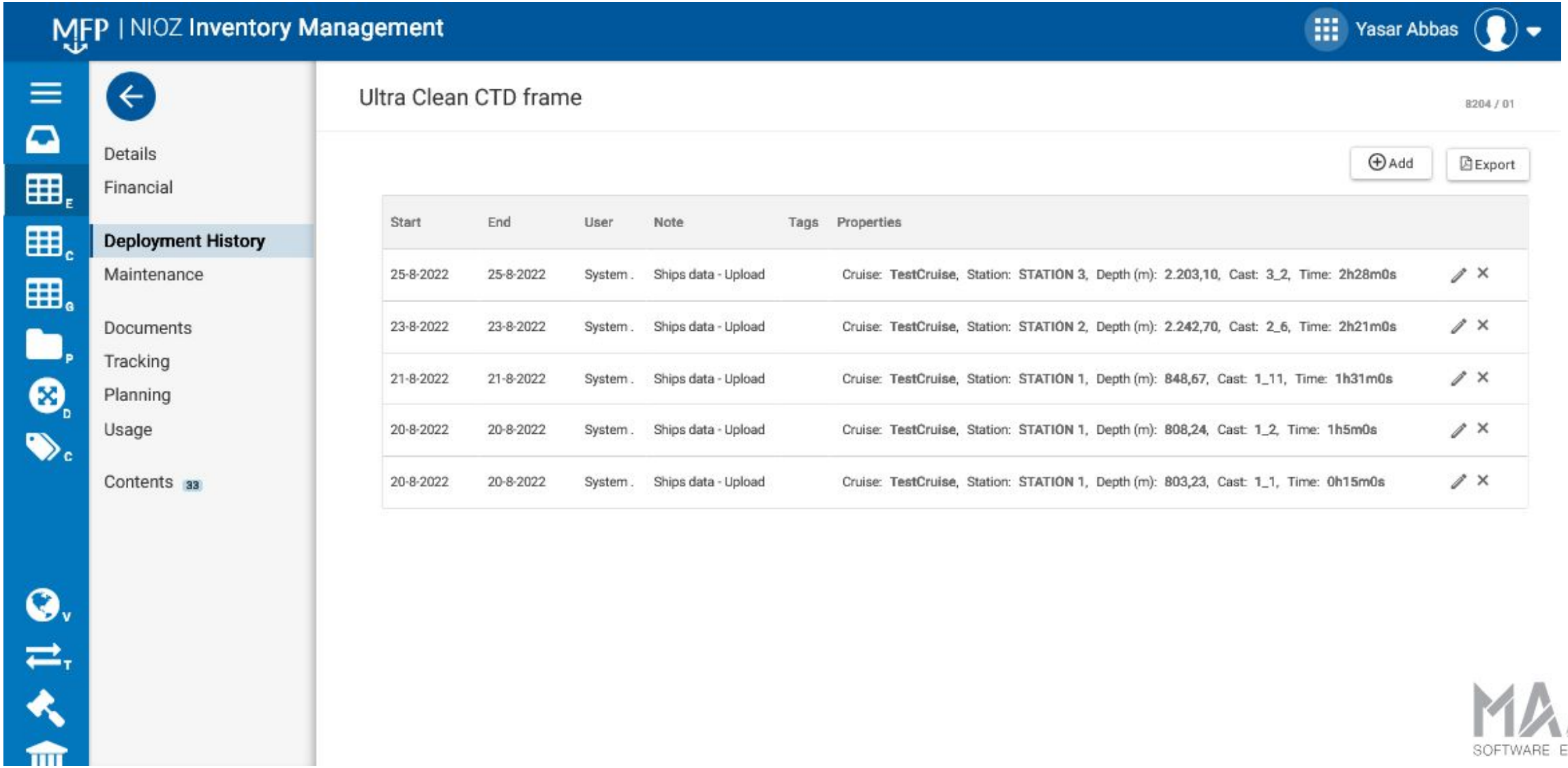
Cruise log to MFP > reports



Cruise log to MFP > reports



Cruise log to MFP > equipment history







Thank you for your attention!

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Follow the project at: www.newresearchfleet.nl

Royal NIOZ National Marine Facilities (NMF) manage and operate the national research vessels and equipment for the benefit of the marine and maritime research community