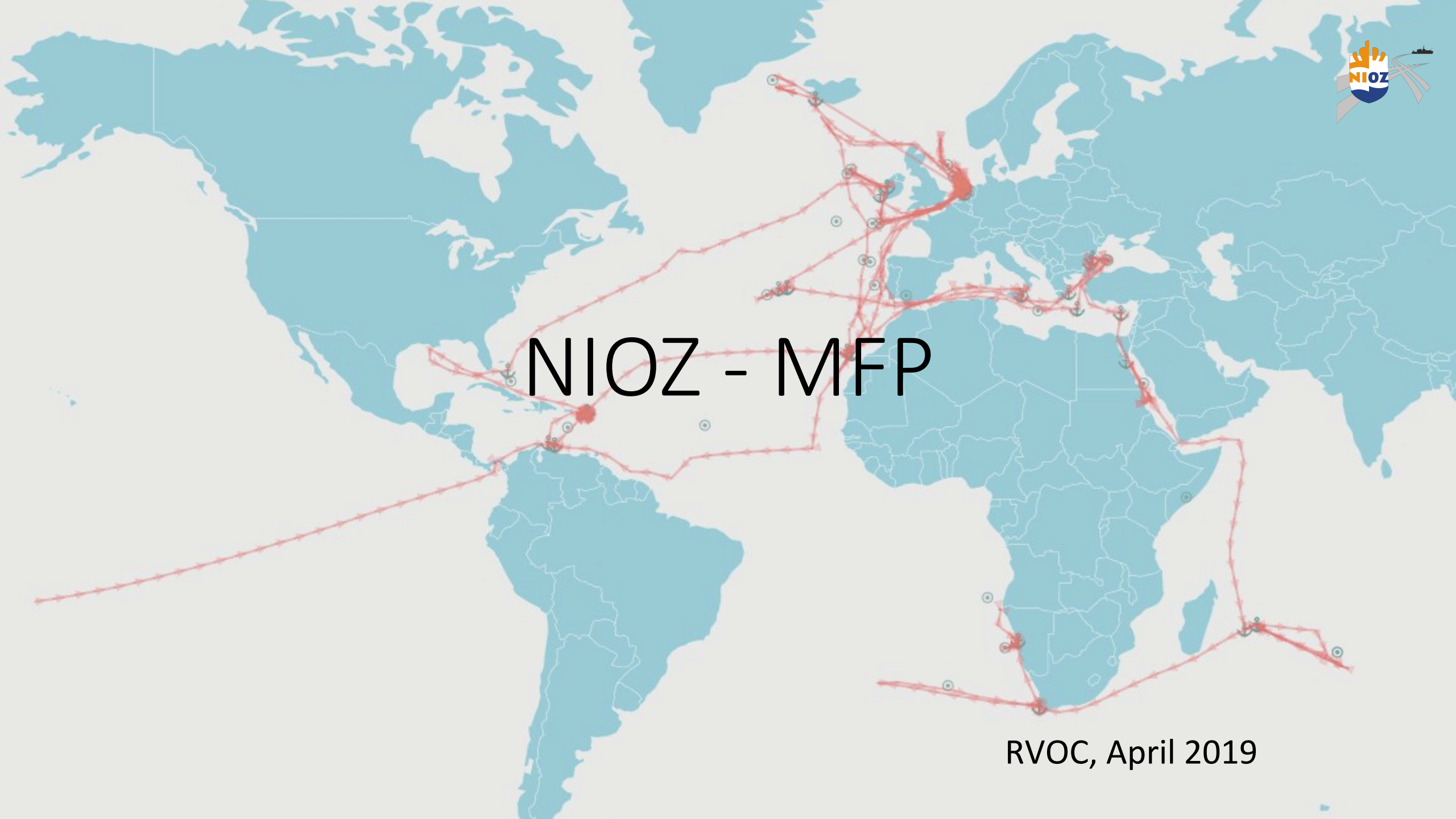
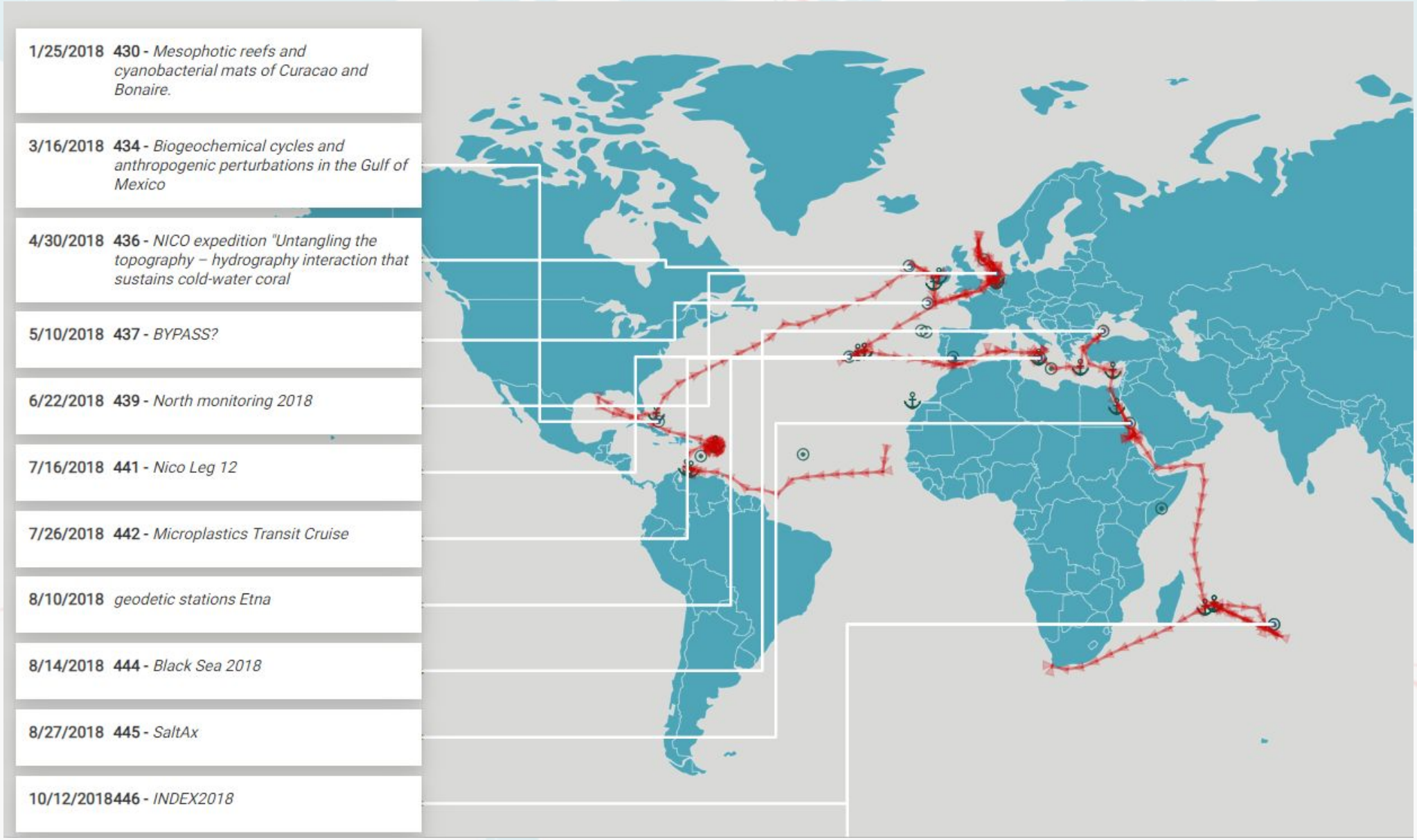


NIOZ - MFP

RVOC, April 2019

NIOZ cruise program 2018



Developments 2018

- Exiting times in the Netherlands.
- Our funding agency has, in principle, agreed to funding a new fleet, 2 new vessels, on condition that the Large Infrastructure Committee agrees to fund a proposal for part of the equipment.
- We have now changed to a system where the ships are fully funded for science, so all successful proposals, national funding but also EU, get ship time, equipment, support.
- No more chartering required. We will continue to do barters within OFEG.

NIOZ 2018

- New vessels: New Pelagia (66m) will be 75m.
- 30 scientists, larger working deck, up to 12 containers

- New Navicula (26m) will be 36m.
- 12 scientists, available year-round instead of 180 days.

- Additional support personnel, marine techs.

Marine Facilities Planning

- The Marine Facilities Planning Website is a joint NIOZ, NERC and Maas Software Engineering project.

- The initial project was called “Track and Trace” and was developed in 2011 by NIOZ. Its goal: Comply with Customs Warehouse Regulations and manage equipment movements to and from Pelagia.

- OFEG: A few application/management programs were used, at NOC and IMR. We discussed specifications for a modular program with a project management core and satellite modules that we could develop at a later stage.

Marine Facilities Planning, initial idea

Marine Facilities Planning

Project Management

Ship time Request

Scientist Portal

Voyage Planning

Programme Construction

Detailed Project Planning

Plan Equipment resources

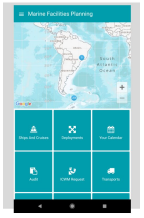
Crew / Technician Planning

Post Project Reports

Inventory Management

Personnel Planning

Reporting



Phone App

Marine Facilities Planning

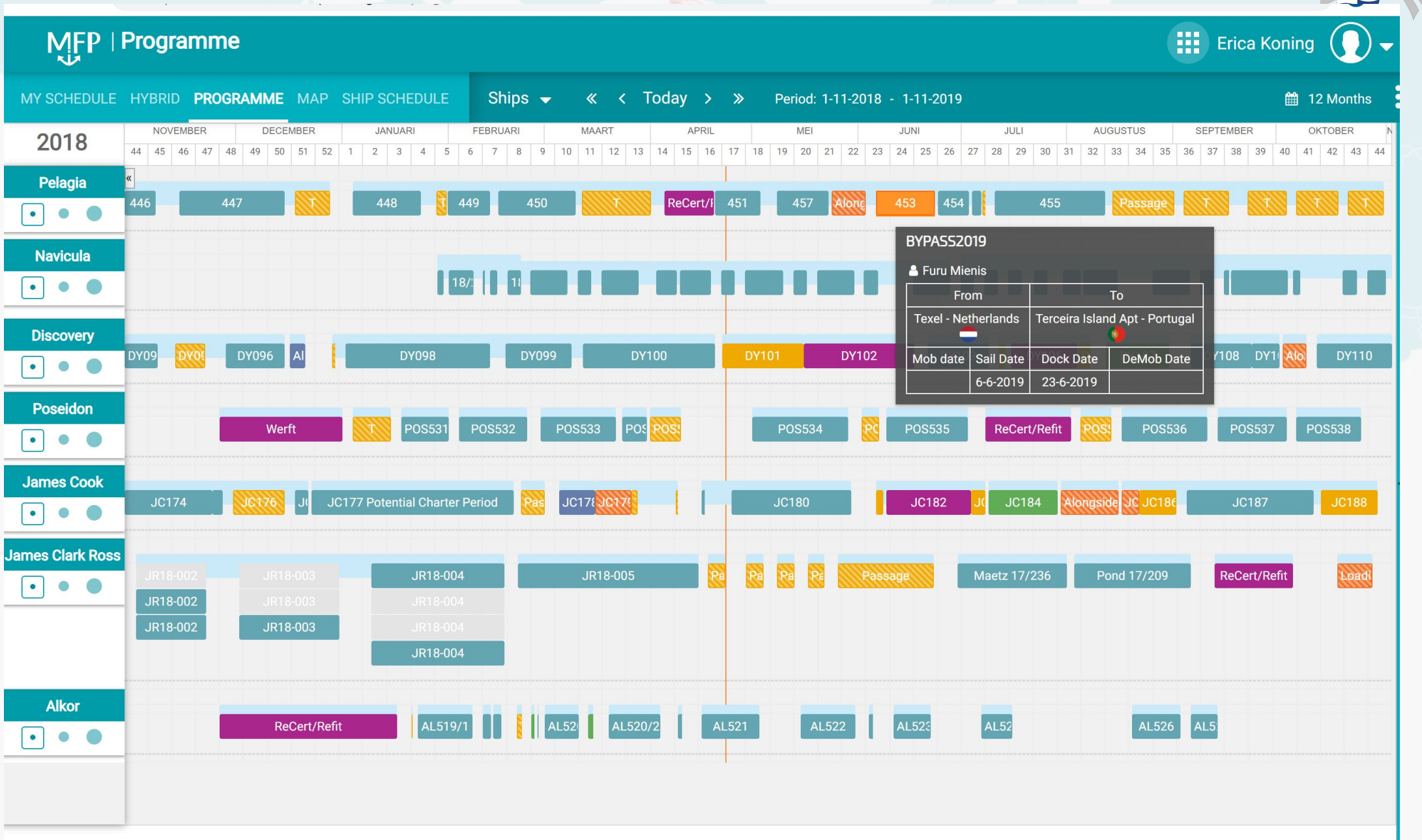
- Central point of communication between scientist and NIOZ-NMF.
- For internal and external users

- Scientists request an account through a simple online registration process, and once the account is approved the scientist can complete an online application for access to ships and equipment.

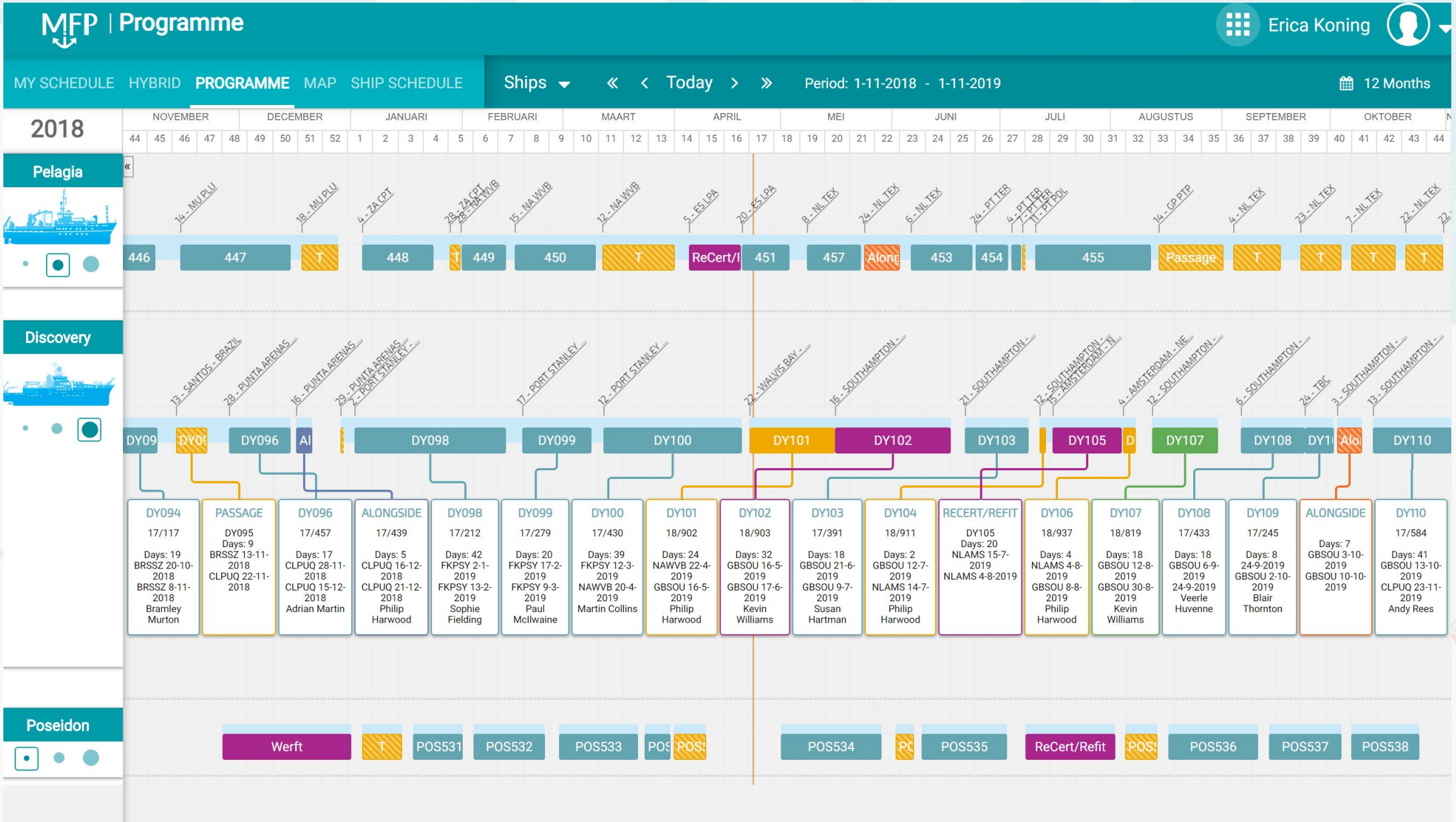
- When a new application is created an individual workflow will be generated. The workflow identifies a series of steps and responsibilities that will guide the scientist through the process from application stage to post-cruise reporting. For every new step that opens the person(s) responsible will receive an email notification to remind them action is required.

- The project management workflows and the application forms can be fully customized for and by the user organization.

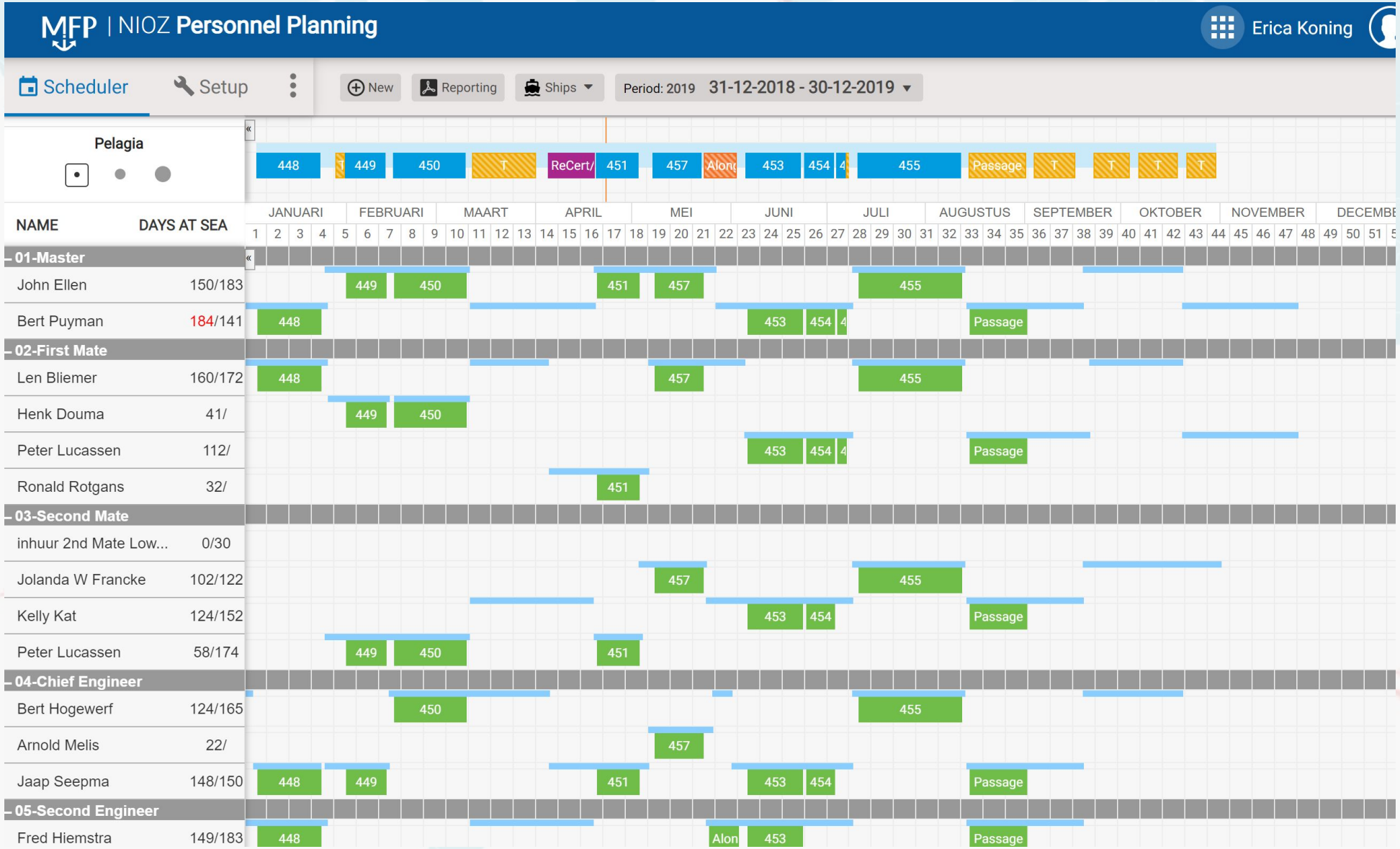
Marine Facilities Planning



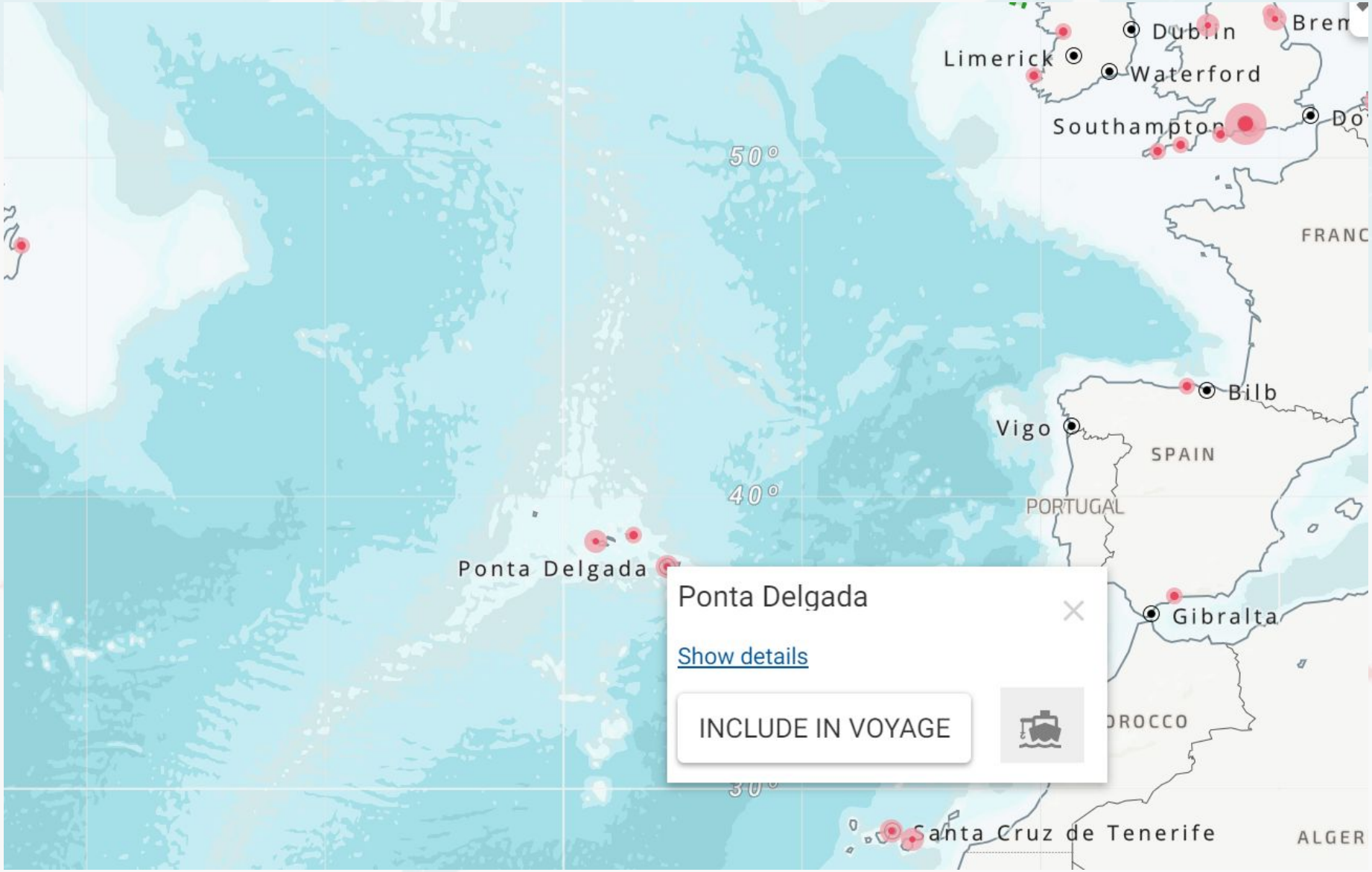
Marine Facilities Planning



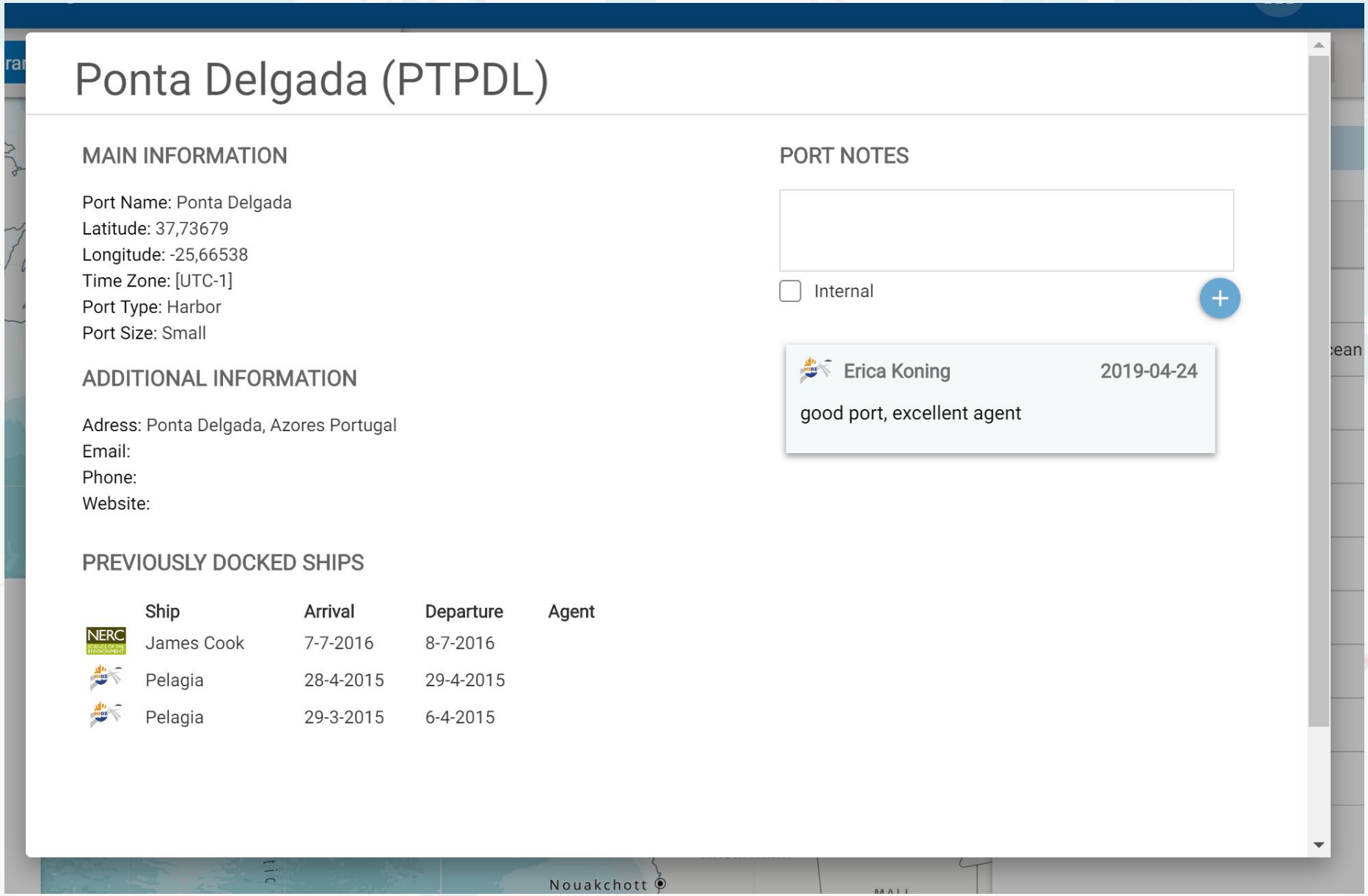
Marine Facilities Planning



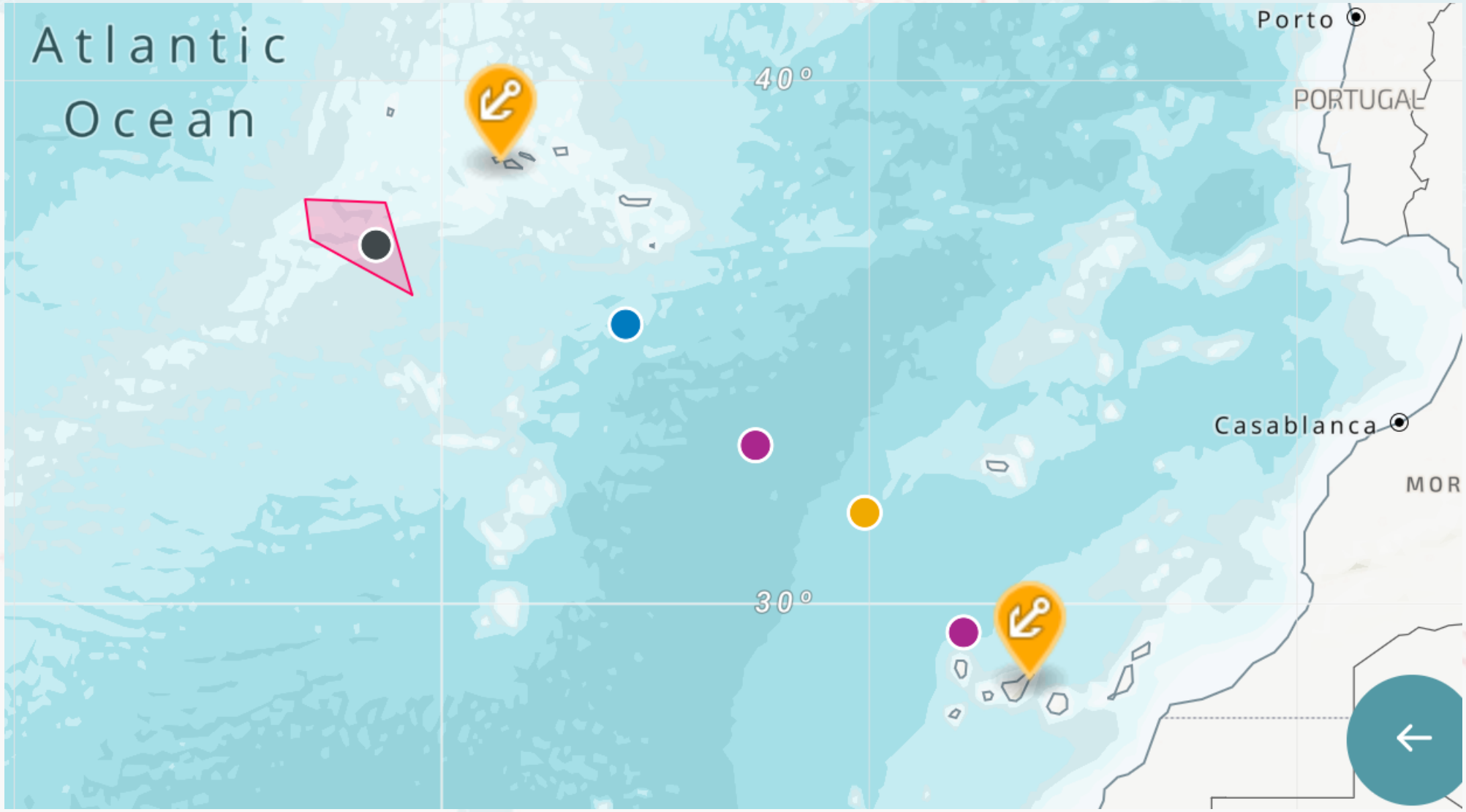
Marine Facilities Planning, port info



Marine Facilities Planning, port info



New in MFP: Application stage, location analysis



New in MFP: Application stage, location analysis

Project Management > azores test > Cruise Location Analysis

n Note ✓
ation ✓
ation ✓
Analysis
oment
uipment
quipment

Preferred Port of Mobilisation:
Horta - Portugal
(Lat:38° 31.87' N; Lon.:028° 37.40' W)

Preferred Port of Demobilisation:
Santa Cruz de Tenerife - Spain
(Lat:28° 27.84' N; Lon.:016° 14.81' W)

Campo Hidrotermal Lucky Strike - Nature Reserve

Campos Hidrotermais a Sudoeste dos Açores - Resource Management Protected Area

Lucky Strike - Site of Community Importance (Habitats Directive)

Lucky Strike hydrothermal vent - Marine Protected Area (OSPAR)

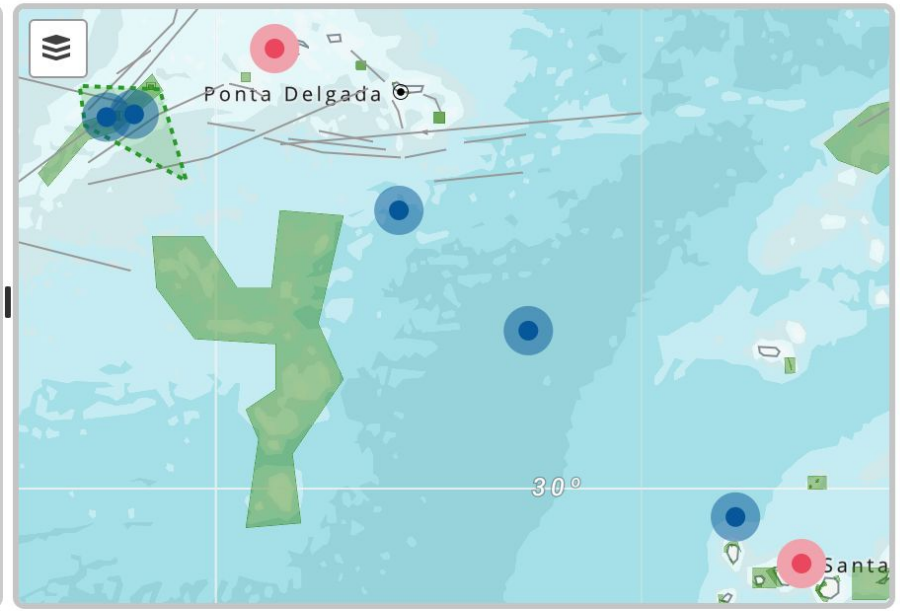
Menez Gwen - Site of Community Importance (Habitats Directive)

Menez Gwen hydrothermal vent field - Marine Protected Area (OSPAR)

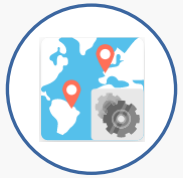
Campo Hidrotermal Menez Gwen - Nature Reserve

MPA

4	Sampling Station 2		
5	Lander 2		⚠

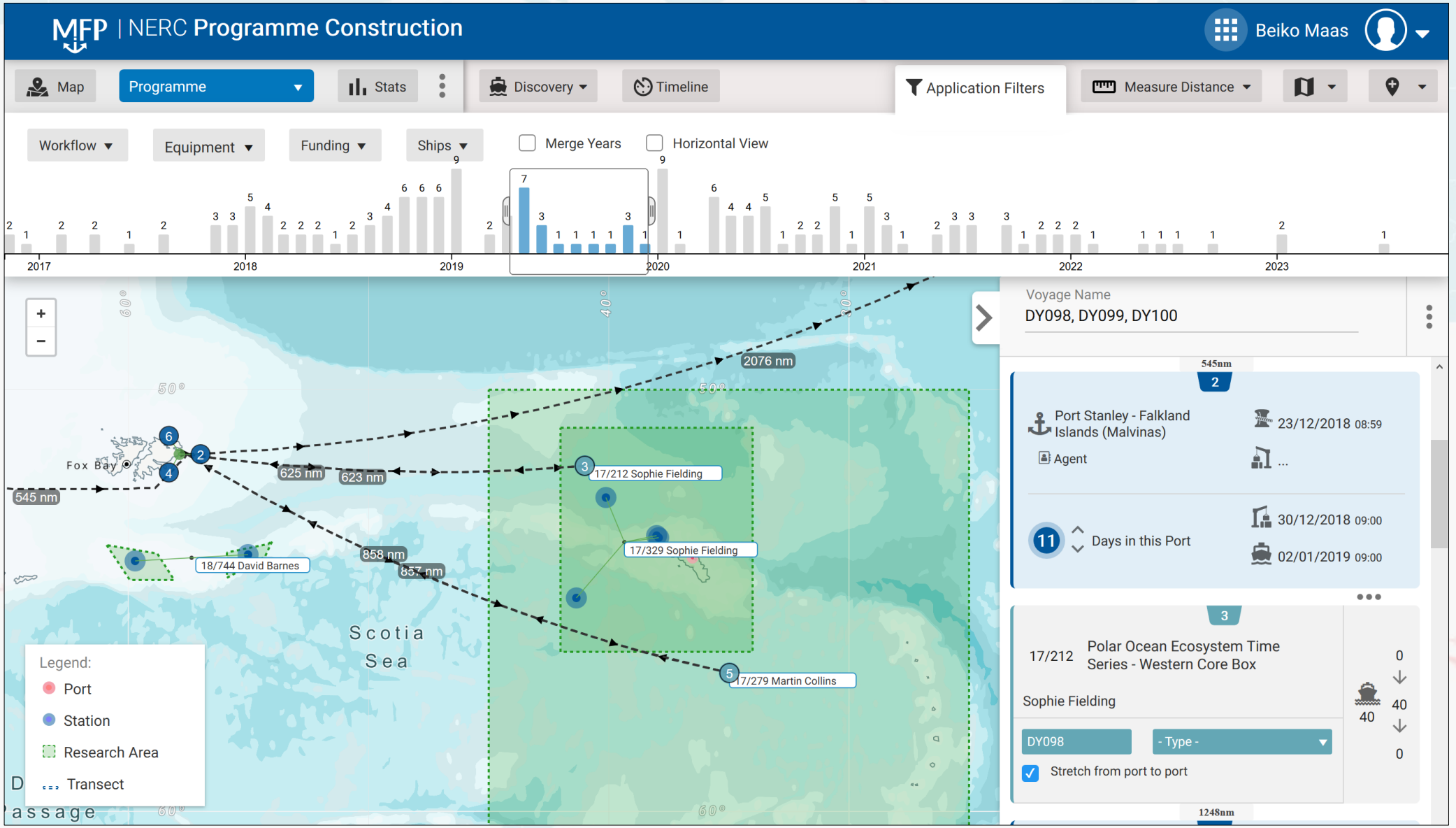


Voyage Planning in MFP

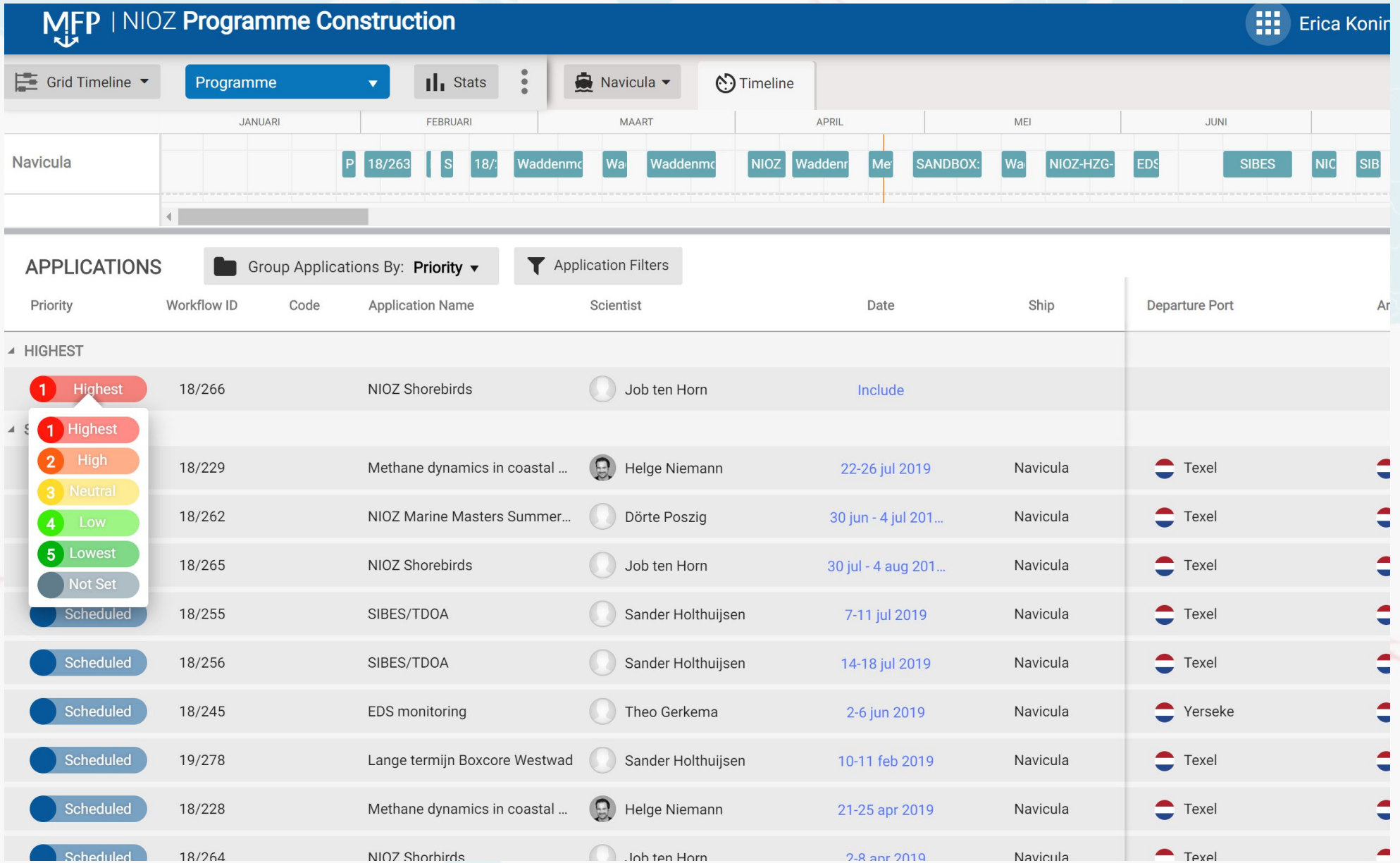


- The VPT is able to create multiple draft ship programs in parallel covering the same time period.
- Programmers have the ability to search and filter through all available application form. Datasets can be constrained by time, geographical locations, scientist, requested equipment, priority of the application ect.
- Complete integration with the personnel planning module.
- Construction of a programme through drag and drop functionality.

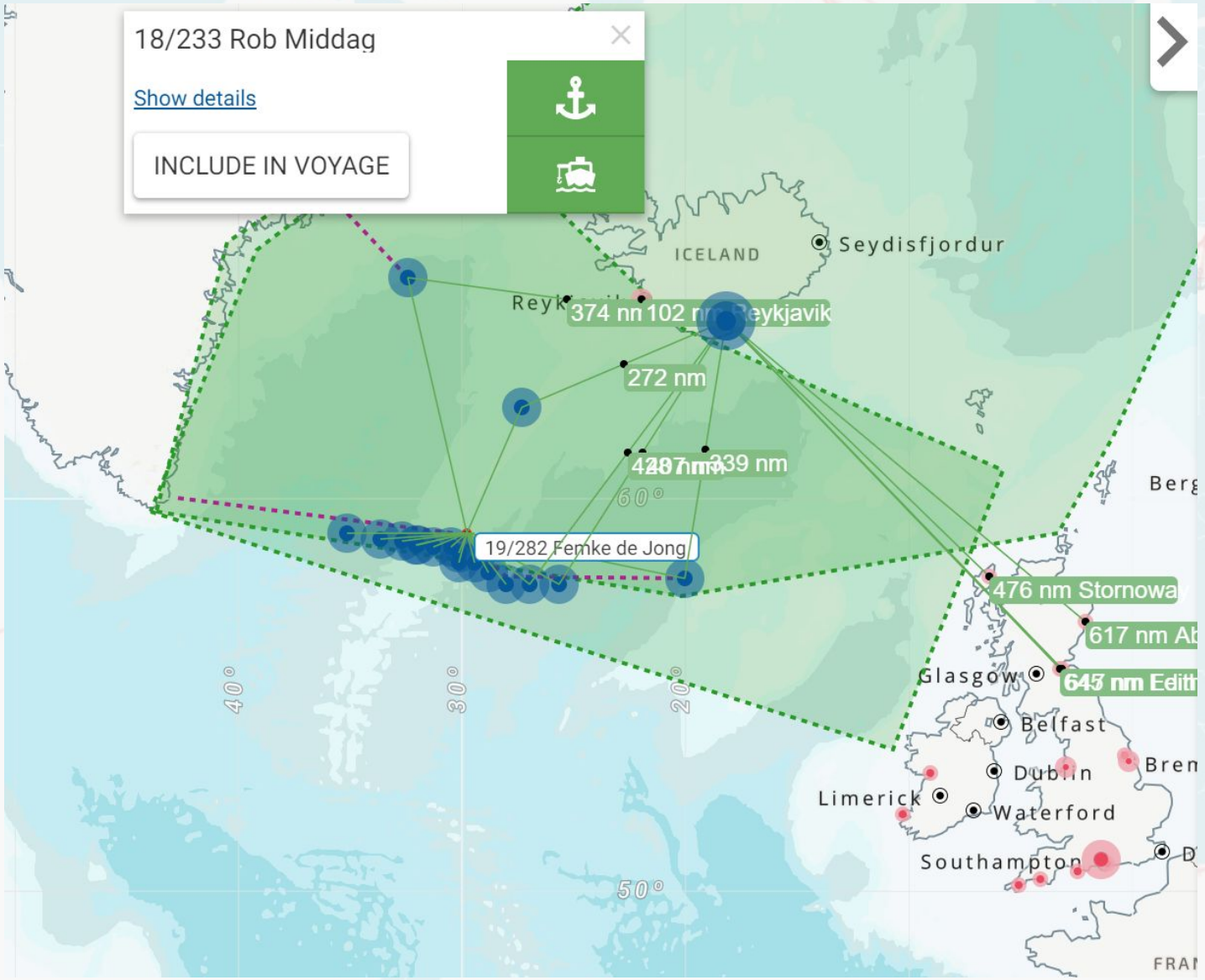
New in MFP: Voyage Planning Tool



New in MFP: Voyage Planning Tool



New in MFP: Voyage Planning Tool, find nearest ports and stations



New in MFP: Voyage Planning Tool,– optimum route between science stations is automatically selected

Select Cruise: POS533 [redacted] | Select Draft: - Draft - | Create New Draft

Mindelo - Cape Verde(Lat:16° 53.34' N; Lon.:024° 59.74' W)

Las Palmas de Gran Canaria (Las Palmas) - Spain(Lat:28° 04.72' N; Lon.:015° 24.91' W)

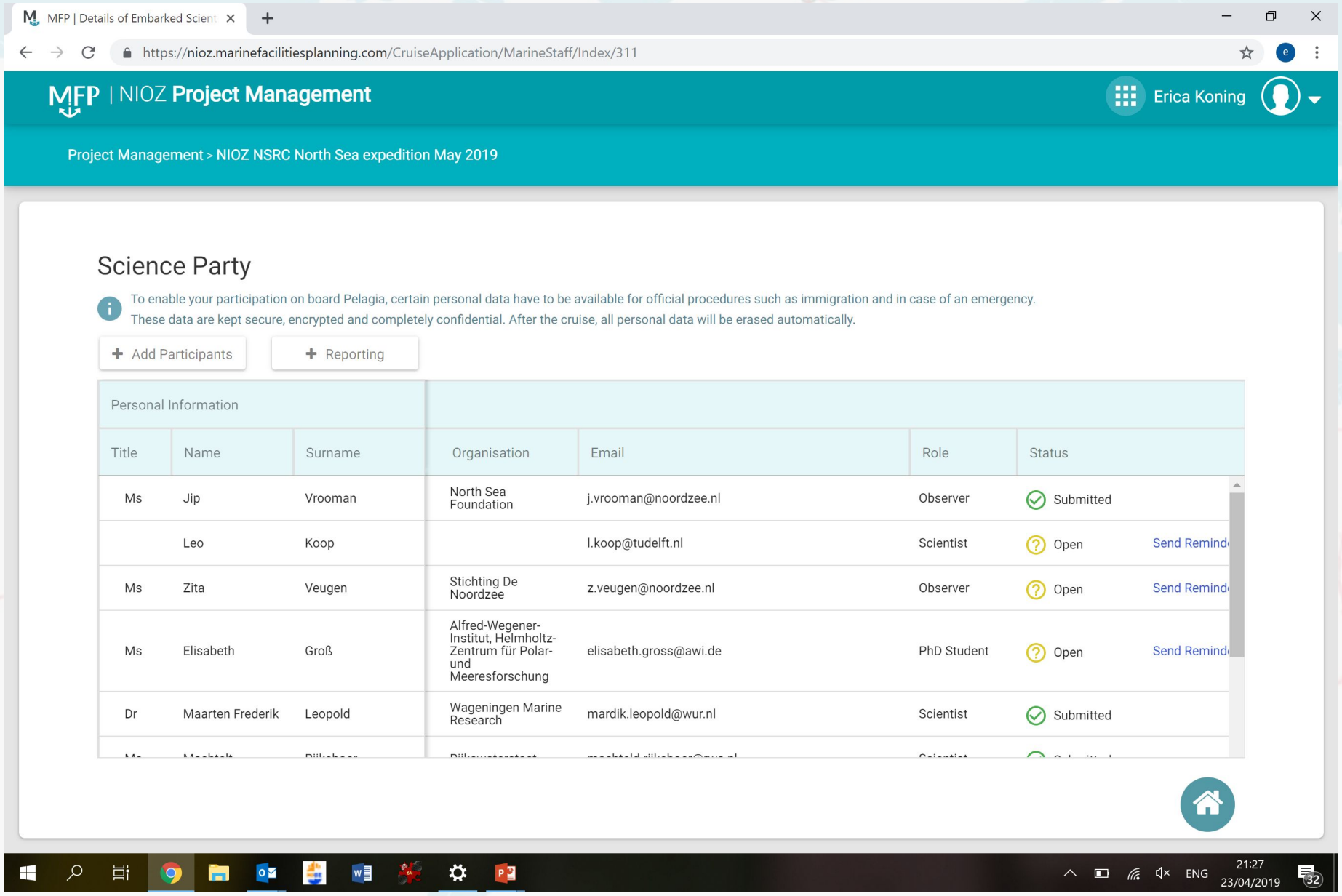
Suggest Order

Required Cruise Time: 9
Required Travel Time: 9 days
Total Time at Stations:
Total Distance: 2601 NM

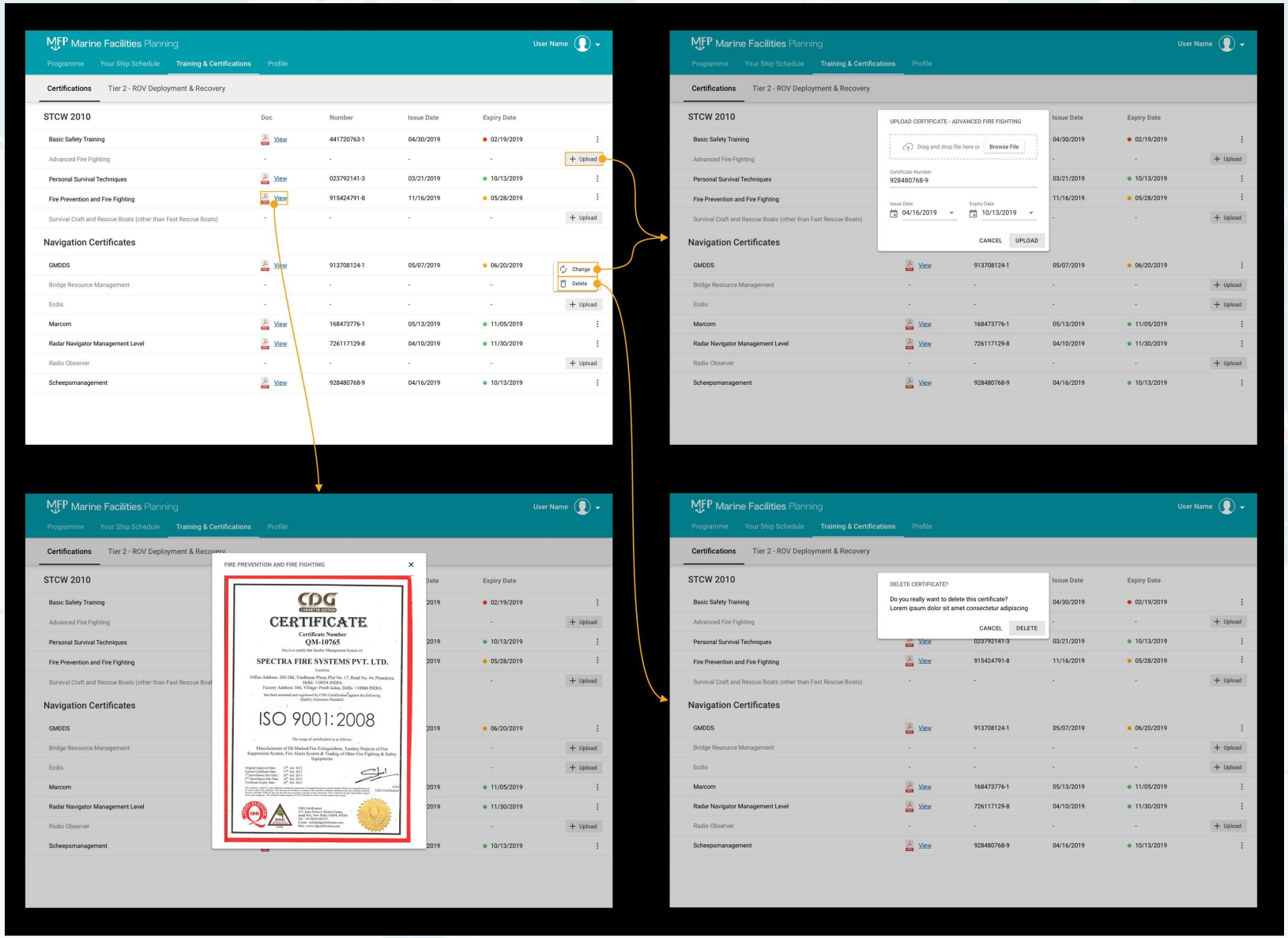
Or...	Station Name	Travel	Station	EEZ	MPA	GEOZ
29	Sal NW-100	1 hours	0			Tropics
30	Transect 15	1 hours	0			Tropics
31	CVAO-100	9 hours	0			Tropics
32	Transect 16		0			Tropics
33	Transect 17		0			Tropics
34	CVOO-3200	5 hours	0			Tropics
35	Transect C1 SW-600	7 hours 2 days	0			Subtropics
36	Transect C2-600	2 hours	0			Subtropics
37	Transect C3--4000	2 hours	0			Subtropics
38	Transect C4-600	2 hours	0			Subtropics
39	Transect C5-4000	2 hours	0			Subtropics

New in MFP: Voyage Planning Tool,– Adjust generated routes

New in MFP: personnel, scientist details, GDPR requirements



New in MFP: Crew portal. Manage certificates



New in MFP: Reporting– heat map