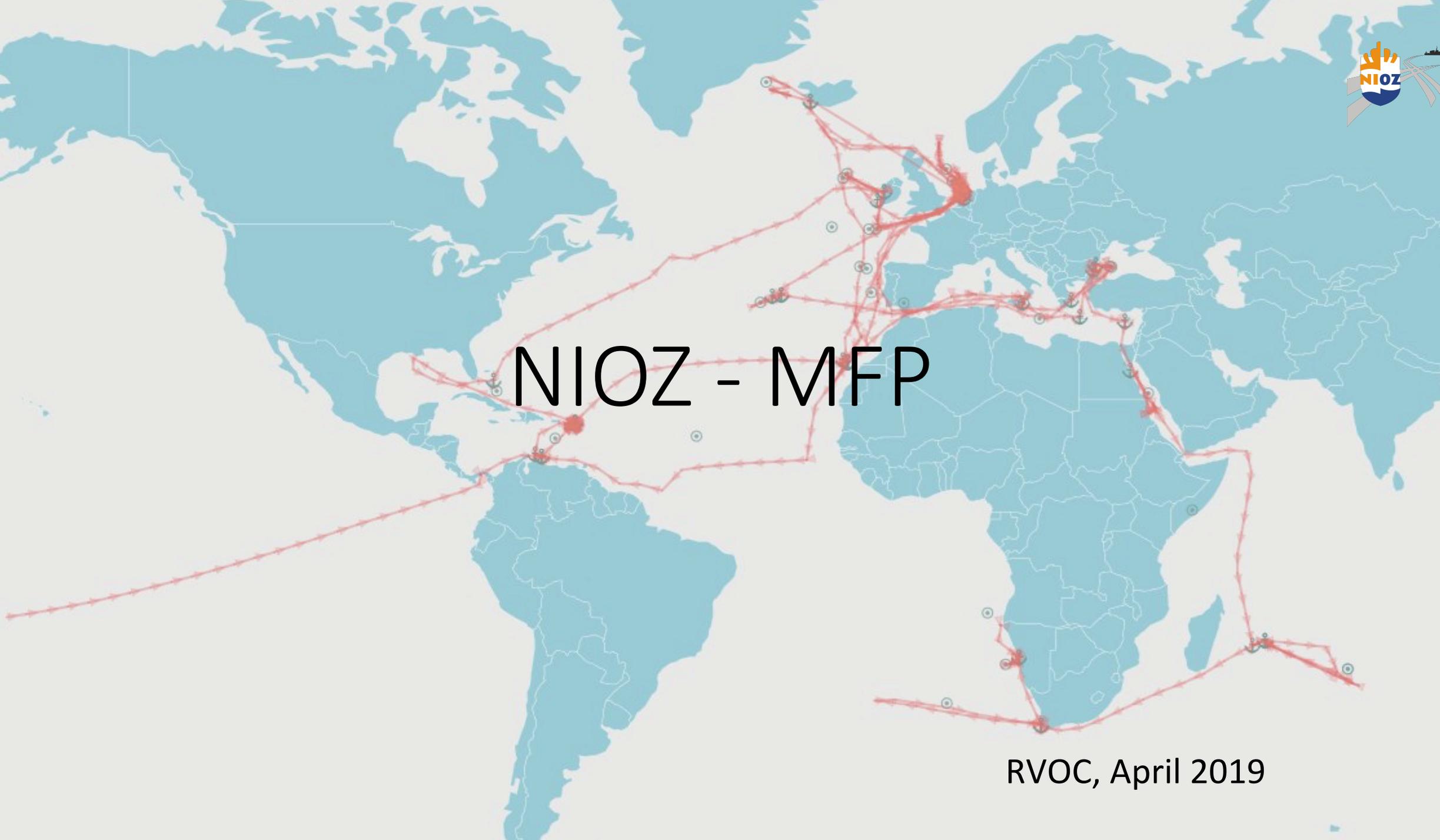


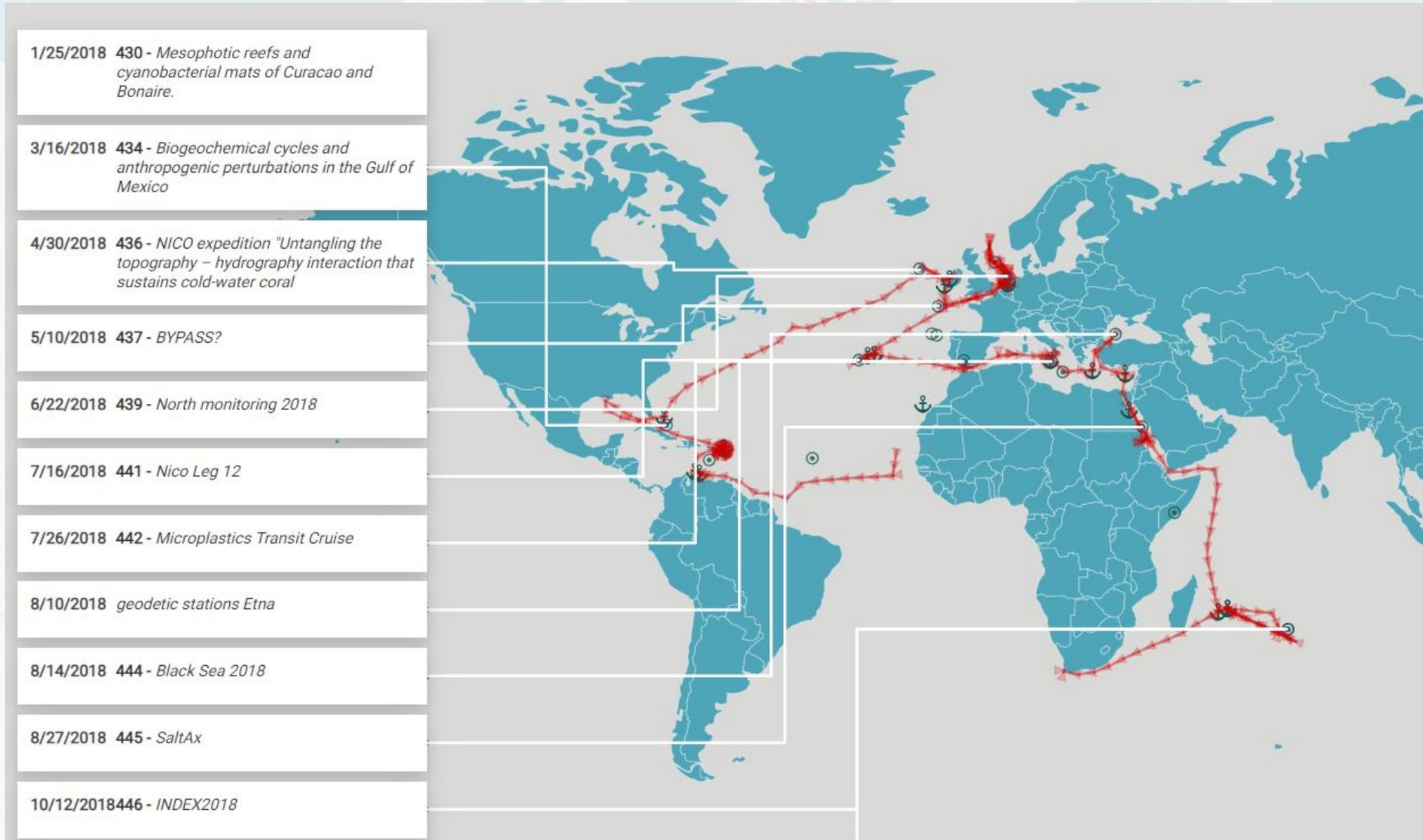


# NIOZ - MFP



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 barter 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

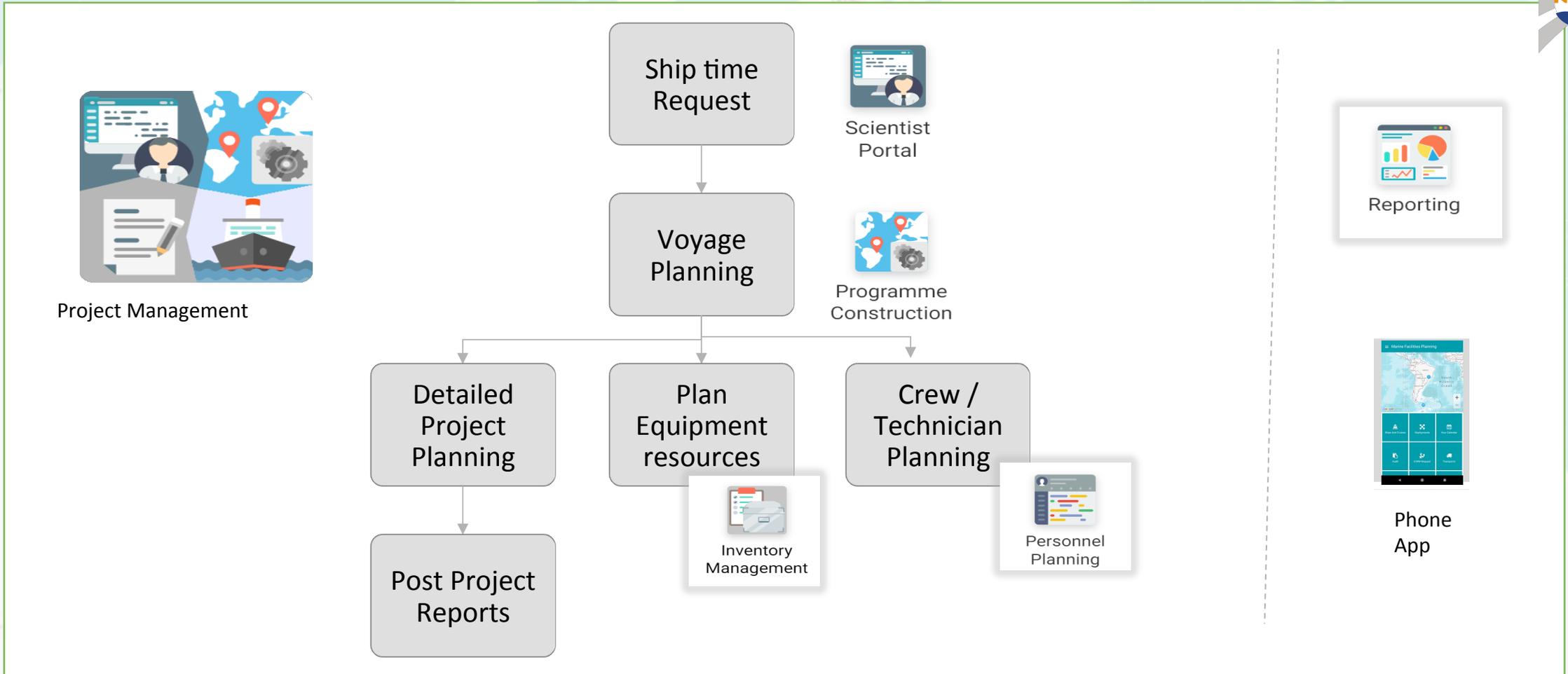


- The Marine Facilities Planning Website is a joint NIOZ, NERC and Maas Software Engineering project.
- The initial project was called “Track and Trace” and was developed in 2011 by NIOZ. Its goal: Comply with Customs Warehouse Regulations and manage equipment movements to and from Pelagia.
- OFEG: A 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



# 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



MFP | Programme
 
 Erica Koning

MY SCHEDULE HYBRID PROGRAMME MAP SHIP SCHEDULE

 Ships ▾    << < Today > >>    Period: 1-11-2018 - 1-11-2019    12 Months

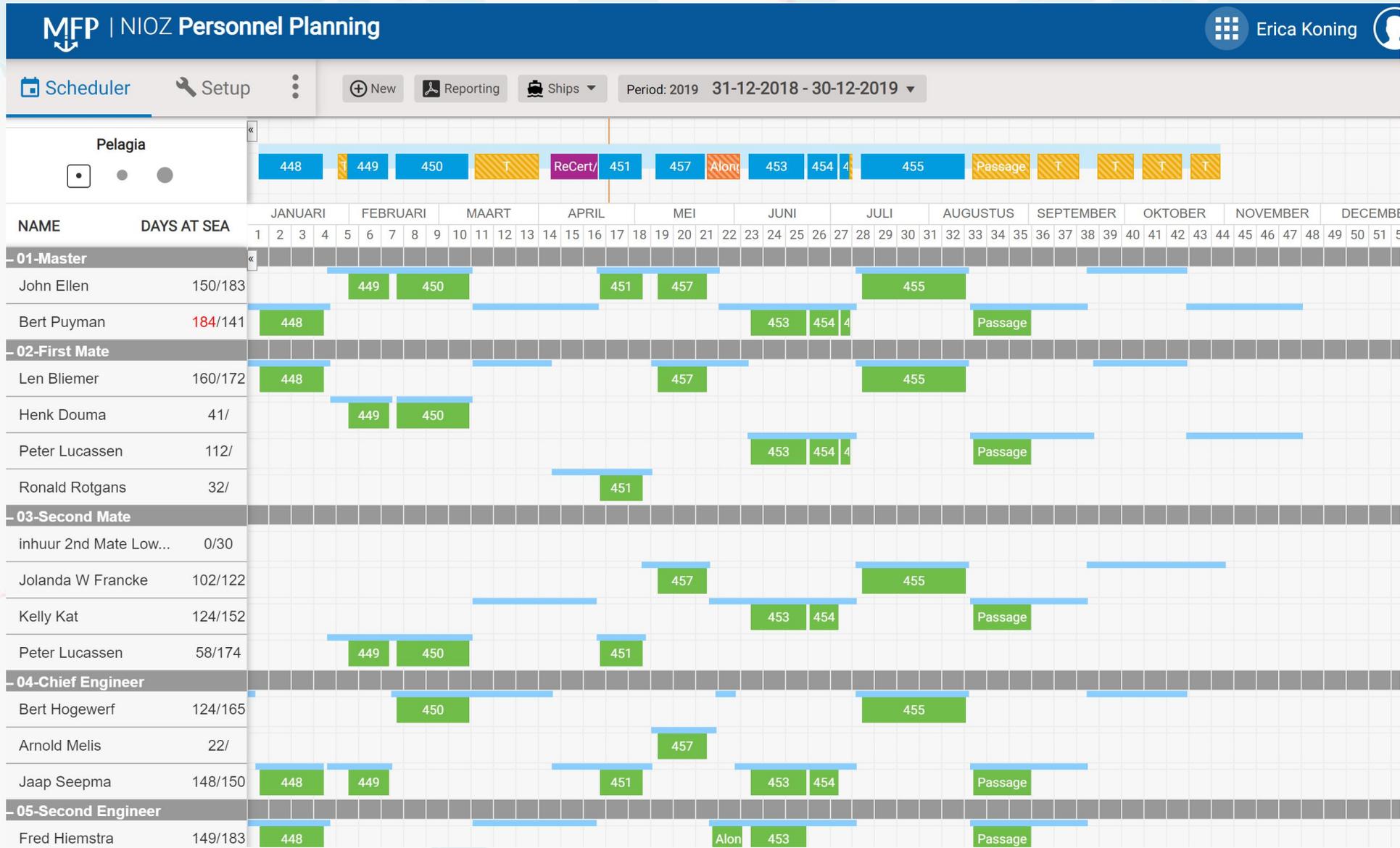
	NOVEMBER				DECEMBER				JANUARI				FEBRUARI				MAART				APRIL				MEI				JUNI				JULI				AUGUSTUS				SEPTEMBER				OKTOBER								
2018	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
<b>Pelagia</b>	446	447	T	448	T	449	450	T	451	457	Along	453	454	455	Passage	T	T	T	T																																		
<b>Navicula</b>																																																					
<b>Discovery</b>	DY09	DY09	DY09	AI					DY098	DY099	DY100	DY101	DY102																																								
<b>Poseidon</b>					Werft	T	POS531	POS532	POS533									POS534	PC	POS535	ReCert/Refit	POS535	POS536	POS537	POS538																												
<b>James Cook</b>	JC174	JC176	JC176	JC176	JC177	Potential Charter Period	Pas	JC177									JC180	JC182	JC184	Alongside	JC184	JC186	JC187	JC188																													
<b>James Clark Ross</b>	JR18-002	JR18-002	JR18-002	JR18-002	JR18-003	JR18-003	JR18-003	JR18-003	JR18-003	JR18-003	JR18-003	JR18-003	JR18-003	JR18-003	JR18-003	JR18-003	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004	JR18-004																					
<b>Alkor</b>					ReCert/Refit	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1	AL519/1													

**BYPASS2019**  
 Furu Mienis
 

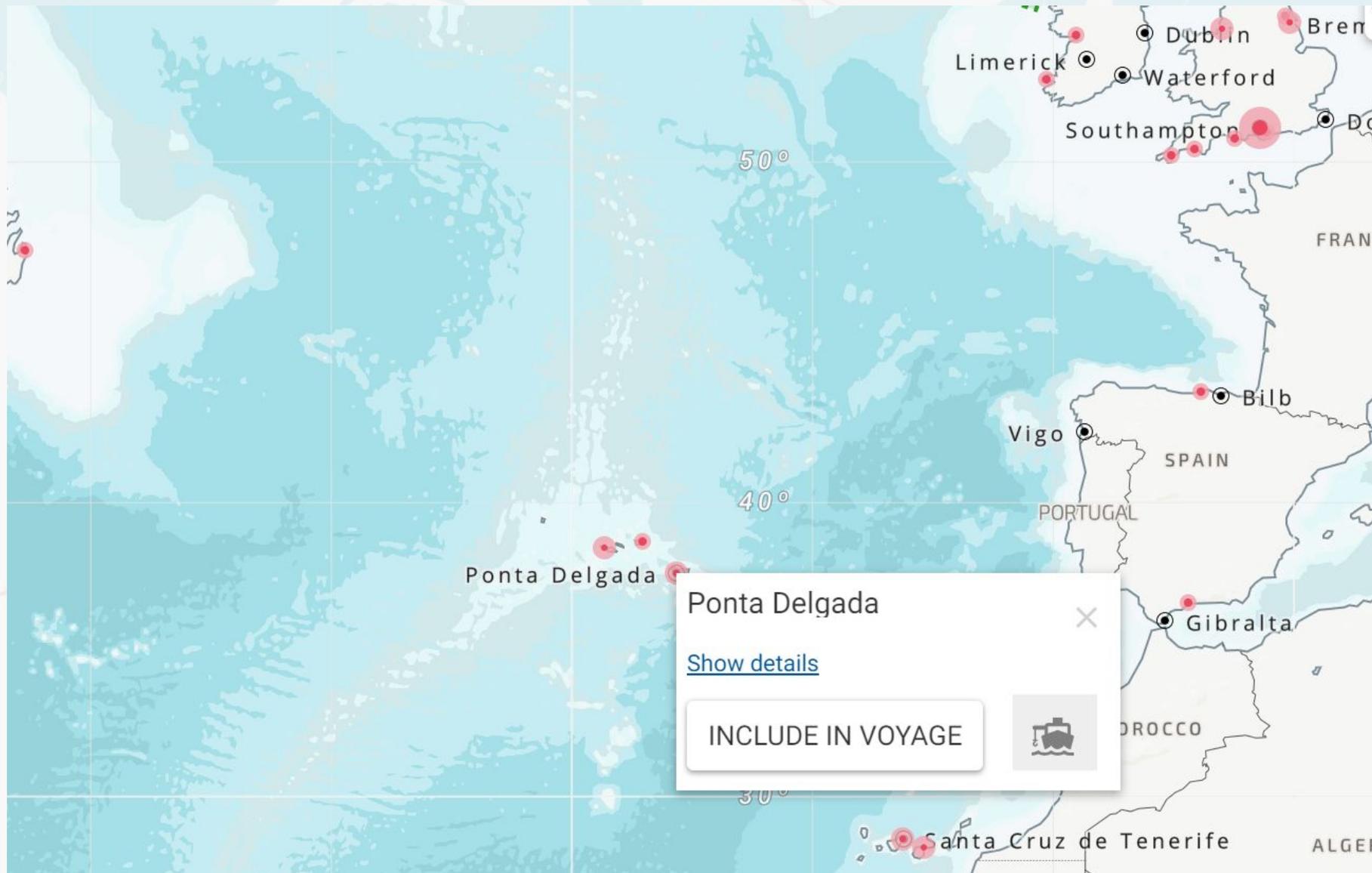
From		To	
Texel - Netherlands		Terceira Island Apt - Portugal	
Mob date	Sail Date	Dock Date	DeMob Date
	6-6-2019	23-6-2019	



# Marine Facilities Planning



# Marine Facilities Planning, port info



# Marine Facilities Planning, port info



## Ponta Delgada (PTPDL)

### MAIN INFORMATION

Port Name: Ponta Delgada  
Latitude: 37,73679  
Longitude: -25,66538  
Time Zone: [UTC-1]  
Port Type: Harbor  
Port Size: Small

### ADDITIONAL INFORMATION

Adress: Ponta Delgada, Azores Portugal  
Email:  
Phone:  
Website:

### PREVIOUSLY DOCKED SHIPS

	Ship	Arrival	Departure	Agent
	James Cook	7-7-2016	8-7-2016	
	Pelagia	28-4-2015	29-4-2015	
	Pelagia	29-3-2015	6-4-2015	

### PORT NOTES

Internal

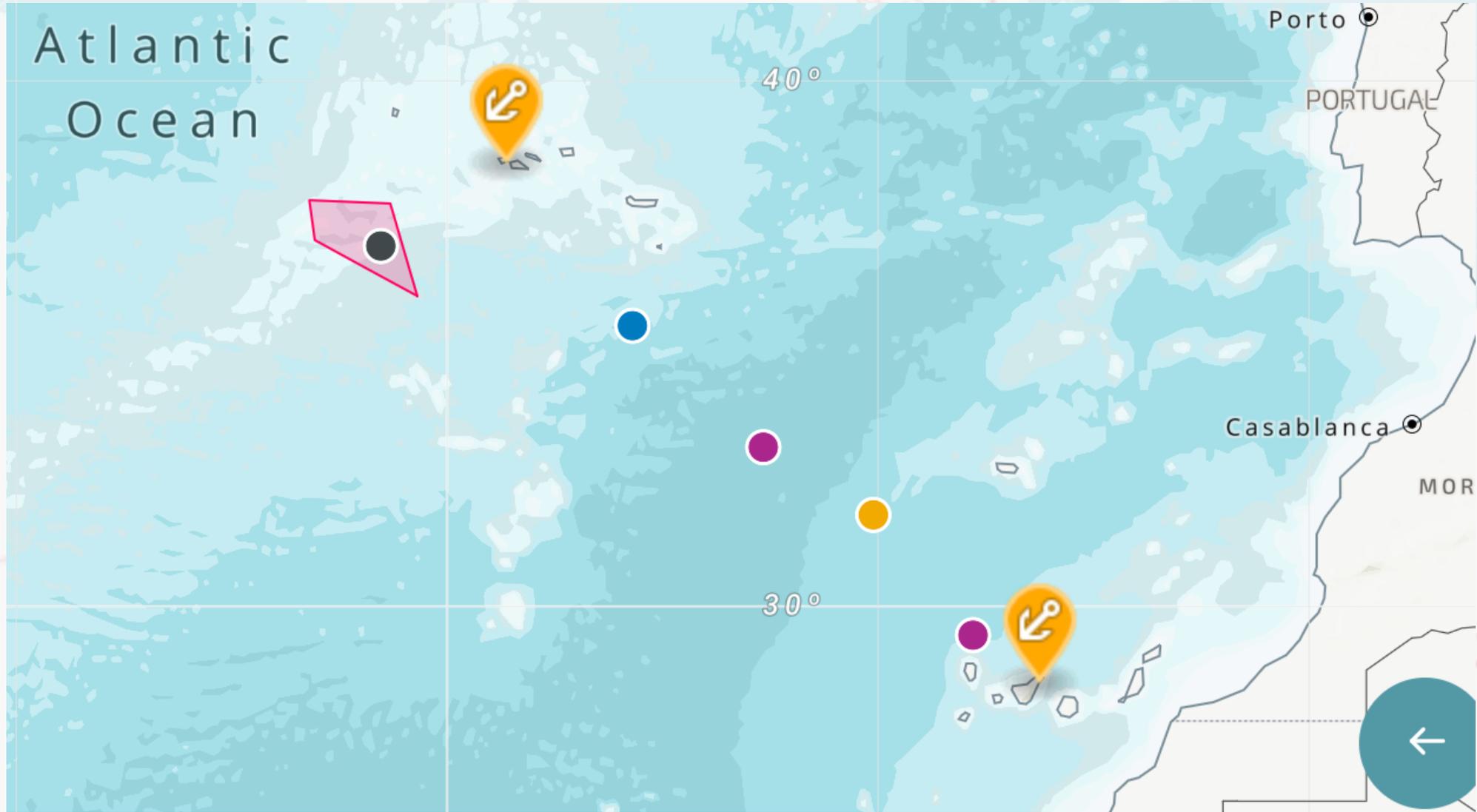


Erica Koning

2019-04-24

good port, excellent agent

## New in MFP: Application stage, location analysis





# New in MFP: Application stage, location analysis



Project Management > azores test > Cruise Location Analysis

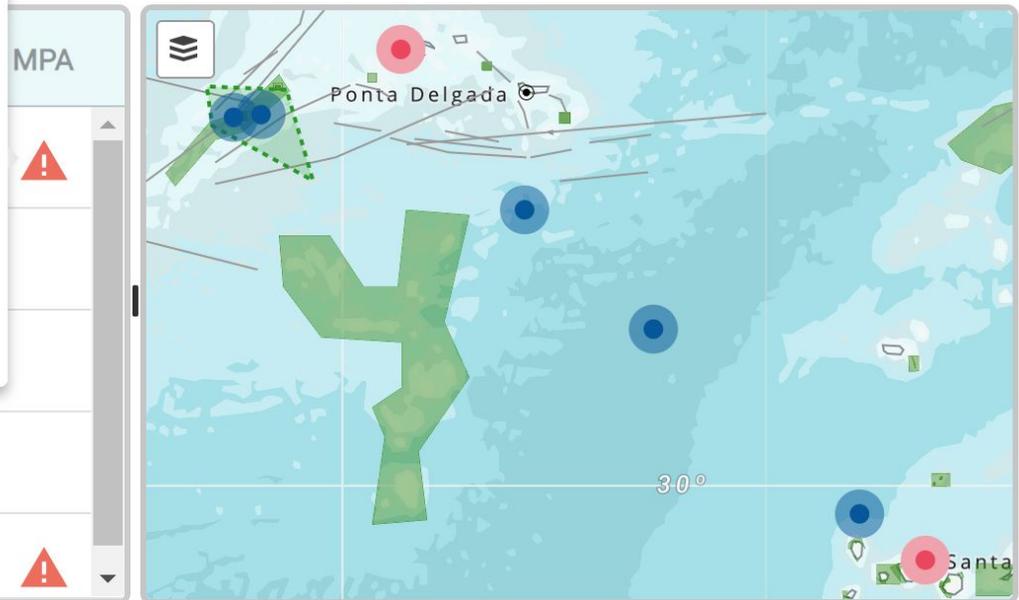
- in Note ✓
- ation ✓
- ation ✓
- Analysis
- oment
- quipment
- quipment

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

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

MFP | NERC Programme Construction
 
 Beiko Maas

Map | Programme | Stats | Discovery | Timeline | Application Filters | Measure Distance

Workflow | Equipment | Funding | Ships
 Merge Years
 Horizontal View

**Legend:**

- Port
- Station
- Research Area
- Transect

Voyage Name: DY098, DY099, DY100

---

**2** 545nm

Port Stanley - Falkland Islands (Malvinas) 23/12/2018 08:59

Agent ...

---

**11** Days in this Port 30/12/2018 09:00

02/01/2019 09:00

**3**

17/212 Polar Ocean Ecosystem Time Series - Western Core Box 0

Sophie Fielding 40

DY098 - Type -

Stretch from port to port 0

# New in MFP: Voyage Planning Tool



MFP | NIOZ Programme Construction Erica Konin

Grid Timeline Programme Stats Navicula Timeline

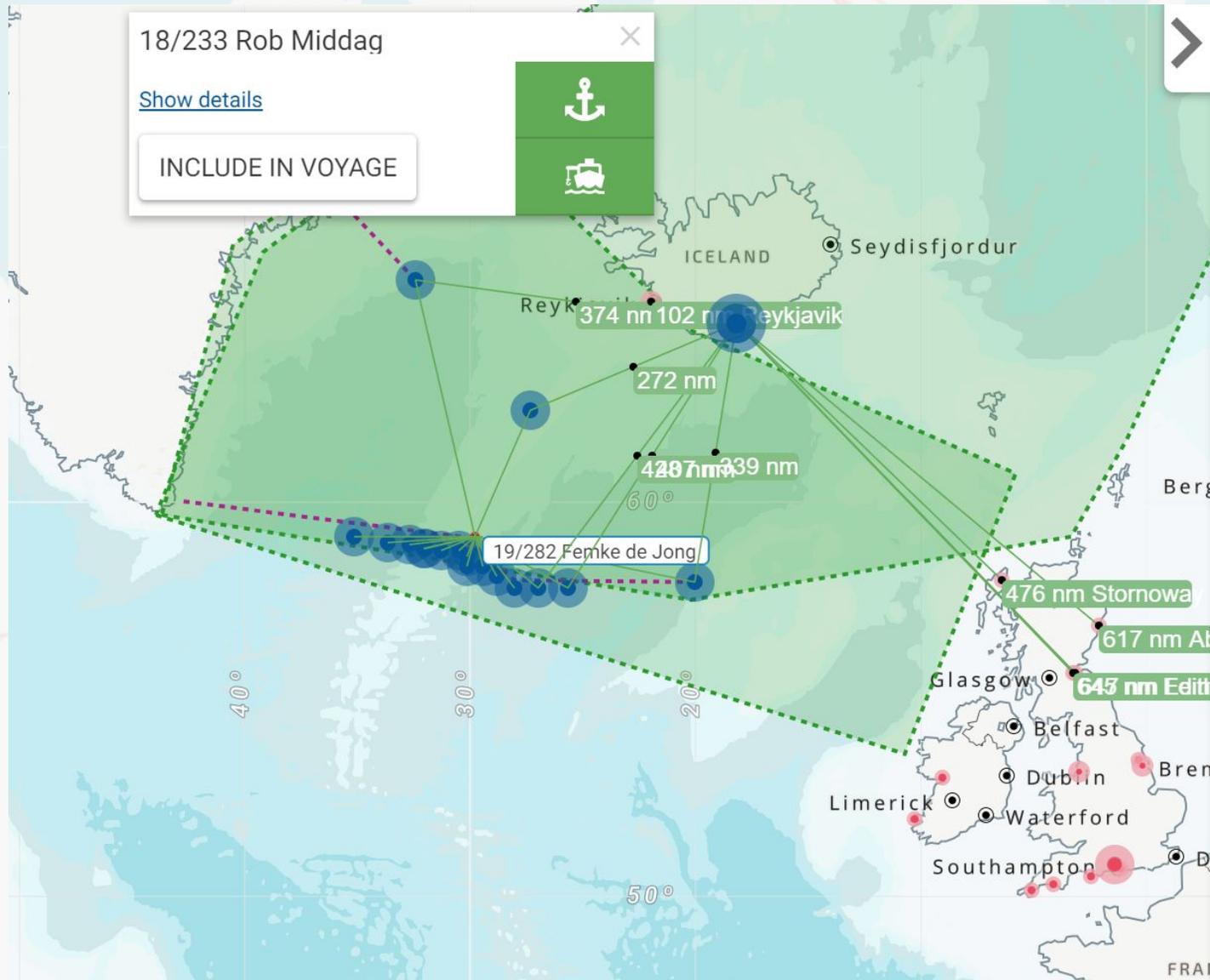
JANUARI    FEBRUARI    MAART    APRIL    MEI    JUNI

Navicula: P 18/263 | S 18/... Waddenmc Wa Waddenmc NIOZ Waddenr Me SANDBOX: Wa NIOZ-HZG- EDS SIBES NIC SIB

**APPLICATIONS** Group Applications By: Priority Application Filters

Priority	Workflow ID	Code	Application Name	Scientist	Date	Ship	Departure Port	Arrival
<b>HIGHEST</b>								
<span style="background-color: #e91e63; color: white; border-radius: 50%; padding: 2px 5px;">1</span> Highest	18/266		NIOZ Shorebirds	Job ten Horn	<a href="#">Include</a>			
<span style="background-color: #e91e63; color: white; border-radius: 50%; padding: 2px 5px;">1</span> Highest	18/229		Methane dynamics in coastal ...	Helge Niemann	<a href="#">22-26 jul 2019</a>	Navicula	Texel	
<span style="background-color: #ff9800; color: white; border-radius: 50%; padding: 2px 5px;">2</span> High	18/262		NIOZ Marine Masters Summer...	Dörte Poszig	<a href="#">30 jun - 4 jul 201...</a>	Navicula	Texel	
<span style="background-color: #ffc107; color: white; border-radius: 50%; padding: 2px 5px;">3</span> Neutral	18/265		NIOZ Shorebirds	Job ten Horn	<a href="#">30 jul - 4 aug 201...</a>	Navicula	Texel	
<span style="background-color: #4caf50; color: white; border-radius: 50%; padding: 2px 5px;">4</span> Low	18/255		SIBES/TDOA	Sander Holthuijsen	<a href="#">7-11 jul 2019</a>	Navicula	Texel	
<span style="background-color: #4caf50; color: white; border-radius: 50%; padding: 2px 5px;">5</span> Lowest	18/256		SIBES/TDOA	Sander Holthuijsen	<a href="#">14-18 jul 2019</a>	Navicula	Texel	
<span style="background-color: #9e9e9e; color: white; border-radius: 50%; padding: 2px 5px;">Not Set</span>	18/245		EDS monitoring	Theo Gerkema	<a href="#">2-6 jun 2019</a>	Navicula	Yerseke	
<span style="background-color: #2196f3; color: white; border-radius: 50%; padding: 2px 5px;">Scheduled</span>	19/278		Lange termijn Boxcore Westwad	Sander Holthuijsen	<a href="#">10-11 feb 2019</a>	Navicula	Texel	
<span style="background-color: #2196f3; color: white; border-radius: 50%; padding: 2px 5px;">Scheduled</span>	18/228		Methane dynamics in coastal ...	Helge Niemann	<a href="#">21-25 apr 2019</a>	Navicula	Texel	
<span style="background-color: #2196f3; color: white; border-radius: 50%; padding: 2px 5px;">Scheduled</span>	18/264		NIOZ Shorebirds	Job ten Horn	<a href="#">2-8 apr 2019</a>	Navicula	Texel	

# 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
Select Draft

POS533 *Berg Sea*
- 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	Sai 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	CV00-3200	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



MFP | Details of Embarked Scientist

https://nioz.marinefacilitiesplanning.com/CruiseApplication/MarineStaff/Index/311

MFP | NIOZ Project Management Erica Koning

Project Management > NIOZ NSRC North Sea expedition May 2019

## Science Party

To enable your participation on board Pelagia, certain personal data have to be available for official procedures such as immigration and in case of an emergency. These data are kept secure, encrypted and completely confidential. After the cruise, all personal data will be erased automatically.

+ Add Participants + Reporting

Personal Information						
Title	Name	Surname	Organisation	Email	Role	Status
Ms	Jip	Vrooman	North Sea Foundation	j.vrooman@noordzee.nl	Observer	Submitted
	Leo	Koop		l.koop@tudelft.nl	Scientist	Open <a href="#">Send Reminder</a>
Ms	Zita	Veugen	Stichting De Noordzee	z.veugen@noordzee.nl	Observer	Open <a href="#">Send Reminder</a>
Ms	Elisabeth	Groß	Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung	elisabeth.gross@awi.de	PhD Student	Open <a href="#">Send Reminder</a>
Dr	Maarten Frederik	Leopold	Wageningen Marine Research	mardik.leopold@wur.nl	Scientist	Submitted
Ms	Maartje	Dijkshoorn	Dijkshoorn	maartje.dijkshoorn@wur.nl	Scientist	Submitted

Home

21:27 23/04/2019

# New in MFP: Crew portal. Manage certificates



The screenshots illustrate the following workflow:

- Initial View:** A table of certificates for 'Tier 2 - ROV Deployment & Recovery'. The 'Fire Prevention and Fire Fighting' certificate is highlighted with a red box and an 'Upload' button.
- Upload Action:** A modal window titled 'UPLOAD CERTIFICATE - ADVANCED FIRE FIGHTING' is shown, allowing file upload and date selection (Issue Date: 04/16/2019, Expiry Date: 10/13/2019).
- Update Action:** The 'Change' and 'Delete' buttons for the 'Fire Prevention and Fire Fighting' certificate are highlighted with a red box.
- View Details:** A modal window displays the certificate details for 'FIRE PREVENTION AND FIRE FIGHTING', including the CDG logo, Certificate Number QM-10765, and ISO 9001:2008 certification.
- Delete Confirmation:** A modal window asks 'DELETE CERTIFICATE? Do you really want to delete this certificate?' with 'CANCEL' and 'DELETE' options.

# New in MFP: Reporting– heat map

