



Koninklijk Nederlands Instituut voor Zeeonderzoek

MARINE FACILITIES PLANNING

The NERC logo consists of the letters 'NERC' in a large, bold, white font on a black rectangular background. Below this, the words 'SCIENCE OF THE ENVIRONMENT' are written in a smaller, white, sans-serif font.

NERC
SCIENCE OF THE
ENVIRONMENT

The GEOMAR logo features the word 'GEOMAR' in a bold, black, sans-serif font. To the right of the text is a stylized black icon consisting of three curved lines that suggest a globe or a wave.

GEOMAR

In order to apply to use these marine facilities you must be a registered user of the Marine Facilities Planning Website

Erica Koning, ERVO 2018



What is Marine Facilities Planning?

- A modular cloud-based marine facility management program developed by a professional software engineering company for NERC and NIOZ.
- MFP manages the entire process from the scientists application until reporting after the cruise.
- The number of modules used is optional. The program can be used for small or large organisations and the setup is adjusted to the individual needs.
- MFP has now been the major planning and scheduling program for NIOZ, NERC for a number of years and certain modules have been used by groups in GEOMAR. The test version of the system has been made available to a number of additional organisations.



MFP modules



Programme



**Inventory
Management**



**Mooring
Application**



**Personnel
Planning**



**Programme
Construction**



**Project
Management**



Reporting



**Scientist
Portal**



MFP start page

Welcome to Marine Facilities Planning

This website allows Scientists to apply to use marine facilities from the Natural Environment Research Council (NERC), the Nederlands Instituut voor Onderzoek der Zee (NIOZ) or GEOMAR Helmholtz Centre for Ocean Research Kiel

Enter the system

[Forgot Password](#)



Programme page, the public page. Vessel schedule for the vessel you select.

MFP | Programme

Erica Koning

MY SCHEDULE HYBRID PROGRAMME MAP

	JAN	FEB	MRT	APR	MEI	JUN	JUL	AUG	SEP	OKT	NOV
1	NICO 2017		Van Duyl		436 NICO van						
2		Oranjestad					Texel -				
3				Nassau			Texel -				
4		Oranjestad					440				
5		431		Nassau			NICO leg 11				
6		NICO leg 4		435		Amsterdam	de Haas				
7		de Jona		NICO leg 8		ReCert/Refit				Reunion -	
8			Brussaard					Catania -			
9					Dingle -			Catania -			
10			Philipsburg		Dingle -					Reunion -	
11		Philipsburg								Port Louis -	Port
12					437						
13		Philipsburg			BYPASS?			Heraklion		Port Louis -	
14					Mienis			Heraklion			
15		432								446	
16		NICO-Leg5								INDEX2018	
17		Mienis	Philipsburg				Horta -			Schwarz-	Port
18			434 Biogeochem				Horta -				4
19			Rush				441				17 INDE Sch
20						Texel -	Nico Leg 12			Safaga -	
21							Gollner			T1	
22	Willemstad					Texel -	Terceira			Transit Gulf	
23											
24		Philipsburg			Texel -	439 North	441			Konina	
25	Willemstad						Nico Lea 12				
26		Philipsburg			438 NICO North	Niemann	Terceira	Limassol -			
27	430 Mesophotic						Med-Red				
28	Visser	433 Reef			Witbaard		442	Limassol -			
29							Microplastic				
30					Galway -			445, Barter			
31							Amaral-	SaltAx,			
								Auagustin			

Legend

Trials
Barter
Alongside
ReCert/Refit
Passage

NMFSS unsupported
Science Cruise

Cruise Filters

Equipment usage ▼

More ▼

Current Cruises

RECERT/REFIT

RECERT/REFIT



Inventory management

The core module where the main database is managed. For management of equipment, mooring administration, cruises and transports and cruise application details. Equipment tracking:

MFP | NIOZ Inventory Management

Acoustic Release 865-A

Display	EPU	Customs Codes	Store Date	End Date	
▲ Dyneema test Mooring Stuit			20-9-2017 10:01		
Location name		Moved by	Source	Stored at	Left at
Deployment ▶ Dyneema test Mooring Stuit		Bob Koster	Tracking Move	20-9-2017 10:01	
▶ AGENCIA NACIONAL de VIAGENS-SA			5-9-2017 09:33	20-9-2017 10:01	
▶ 17-7 Rotterdam Mindelo			4-7-2017 09:04	5-9-2017 09:33	
▶ Nederlands Instituut voor Onderzoek der Zee			24-8-2016 15:56	4-7-2017 09:04	
▶ Treasure-2015 BOBO-A			12-5-2015 13:21	24-8-2016 15:56	
▶ Treasure-2014 BOBO-A			11-6-2014 14:40	12-5-2015 13:21	
▶ Pelagia			25-4-2014 14:11	11-6-2014 14:40	
▶ Koster Bob			11-3-2014 16:47	25-4-2014 14:11	
▶ Nederlands Instituut voor Onderzoek der Zee			8-11-2013 15:26	11-3-2014 16:47	
▶ Pelagia			1-10-2013 19:14	8-11-2013 15:26	
▶ Nederlands Instituut voor Onderzoek der Zee			11-9-2013 17:24	1-10-2013 19:14	
▶ Hans v. Haren			1-3-2013 12:30	11-9-2013 17:24	



Inventory management: planning equipment movements

MFP | NIOZ Inventory Management

Home

change
delete
export
duplicate
move to

Voyage/Cruise
 Mobilise and Demobilise on the same voyage
 Pelagia
 NICO 2017-2018
 North monitoring 2018
 → 22-6-2018 Texel - Netherlands
 ← 2-7-2018 Texel - Netherlands

CONTENT EDIT MODE REVIEW

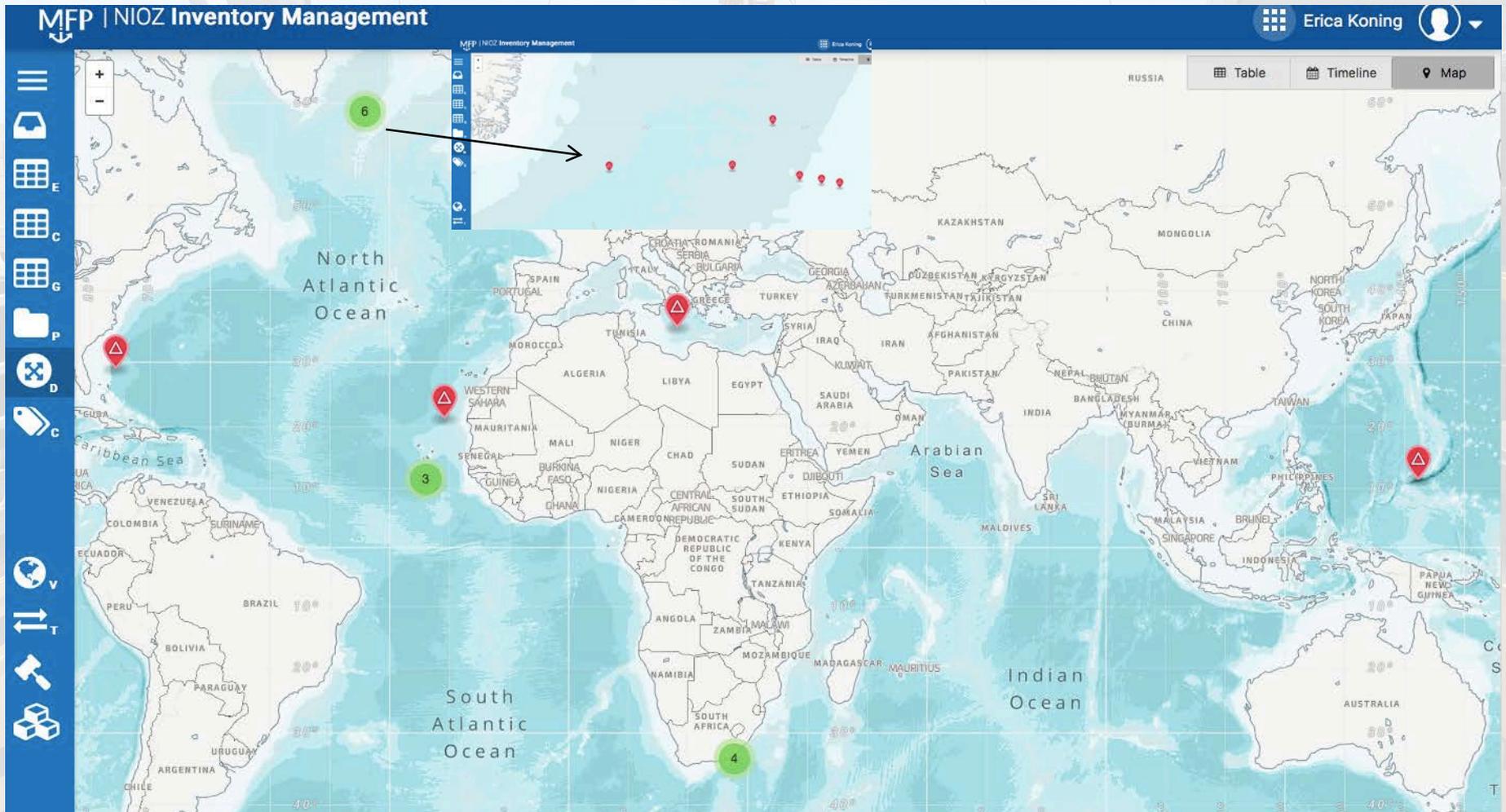
- ⊙ **31394** Container 20 Thermostable lab NIOZ ^
- ⊙ **200284** Core slicer (oud)
- ★ **9898** Container 43 Flatrack removable bord... ^
- ★ 100 x Vibrocorer Liners 100 pieces (Σ 400...)
- ★ 1.000 x Vibrocorer caps 1000 pieces (Σ 5...)
- ⊙ **9911** Container 31 Flatrack (fixed borders) x ^
- ⊙ **34104** Spool Up winch NIOZ
- ⊙ **202389** Dredge set in steel crate

Equipment
Consumables
Hazardous Materials
Availability Filter

	Name	Serial Number	Barcode	Type
<input type="checkbox"/>	All	All	All	
<input type="checkbox"/>	-	NIOZ-CB-22	24631	Aluminium box
<input type="checkbox"/>	-	NIOZ-CB-20	24730	Aluminium box
<input type="checkbox"/>	-	CO2-96001	24761	Aluminium box
<input type="checkbox"/>	Flotation Buoy 40 Inch + Frames	2147	3148	Buoyancy
<input type="checkbox"/>	Flotation Buoy 49 Inch + Frames	ADCP49/1090	3131	Buoyancy
<input type="checkbox"/>	Masterflex cons. dr.	n/a	49412	Laboratory pumps
<input type="checkbox"/>	SBE-19 +	6458	33237	CTD
<input type="checkbox"/>	(bottom) Deep sea Mix BB/ther	Mix BB 002	4978	Landers



Inventory management: mooring and deployment administration





Inventory management: cruises & transports

MFP | NIOZ Inventory Management Erica Koning

NICO 2017-2018
Ship Pelagia
Contact
Notes

DOCUMENTS Upload

- XLS**
CustomsReport-Las Palmas de Gran Canaria (Las Palmas) - Spain-20171212 (1)PRA.xlsx
- PDF**
Losse kisten voor Pelagia uitklaring Texel 2017-12-13 buiten track en trace om FCG.pdf
- PDF**
rwitte 2017-12-08 09-43-59.pdf

PORT CALLS | **CONNECTED TRANSPORTS**

ACIVITIES +
437 BYPASS? Furu Mlenis

Texel - Netherlands 21-5-2018 20:30 → Equipment: 0 / 160
Technicians: 8
Samples: 0

ACIVITIES +
438 NICO North Sea Rob Witbaard

Amsterdam - Netherlands 6-6-2018 11:00 → Equipment: 0 / 32
Technicians: 2
Samples: 0

Amsterdam - Netherlands 6-6-2018 11:00 ← Equipment: 0 / 0
Technicians: 0

ACIVITIES +
- ReCert/Refit

Timeline: -21 Days, -19 Days, -6 Days, -6 Days



Inventory management: cruise application administration

- ☰
- ←
- Steps
- Equipment Types**
- Equipment
- Cruise Fundings
- Post Cruise Assessment
- Ship Fitted Equipment
- Ship Documents
- Navicula Pool Equipment
- 🌐
- ↔
- 🔨
- 📦

Equipment Types

Name	Plan Lis...	Question Count	Cruise ...	Workflows	Responsible	
Air sampler		0 Questions	No			
Bottom sampler		0 Questions	No			
Box corer		4 Questions	Yes	Pelagia, Navicula, MEA	Yvo Witte	
dredge		1 Questions	Yes	Pelagia, Navicula, MEA	Yvo Witte	
Gravity corer		1 Questions	Yes	Pelagia, Navicula	Yvo Witte	
Monocorer		0 Questions	Yes	Pelagia, Navicula, MEA	Yvo Witte	
Multicorer		1 Questions	Yes	Pelagia, Navicula	Yvo Witte	
Piston corer		2 Questions	Yes	Pelagia	Yvo Witte	
Vibro corer		0 Questions	Yes	Pelagia	Yvo Witte	
Net sampler		0 Questions	No			



Inventory management: cruise application administration

MFP | NIOZ Inventory Management Erica Koning

-
-
-
-
-
-
-
- Ship Documents**
-

Ship Documents

Pelagia

Upload Bulk Edit Sort

Flat Group

Diplomatic Clearance Application

	<input type="checkbox"/> Dip_clear form RV Pelagia Ireland.docx	28-11-2016	Erica Koning	▼
	<input type="checkbox"/> notification diplomatic clearance RV Pelagia standard.docx	28-11-2016	Erica Koning	▼
	<input type="checkbox"/> UN FORM A - Application Form for Dip Clear RV Pelagia for USA.docx	2-8-2016	Erica Koning	▼

Science Party

	<input type="checkbox"/> checklist chief scientist update 2017.pdf	15-1-2018	Erica Koning	▼
	<input type="checkbox"/> checklist chief scientist-charters- update 2016.pdf	15-1-2018	Erica Koning	▼
	<input type="checkbox"/> Science party Pelagia travel requests update 2017-12.xlsx	8-12-2017	Erica Koning	▼
	<input type="checkbox"/> Science party Pelagia update 2-2018.xlsx	19-2-2018	Erica Koning	▼

Navicula

Upload Bulk Edit Sort

Flat Group

Diplomatic Clearance Application



MFP: scientist portal, applying for ship time or equipment

MFP | NIOZ Scientist Portal

Erica Koning

HOME

MY EQUIPMENT

VOYAGES AND CRUISES

MY PROFILE

HELP & DOCUMENTATION

Welcome to your personal NIOZ portal. Here you can apply for ship time and use of National Marine Pool Equipment. You can also manage your personal equipment.

To see an overview of the scheduled cruises have a look at the [NIOZ Programme](#)

+ New Application



Ship-time & Marine Equipment Application Form (Pelagia)

Use this option to request both ship time and equipment.



Ship-time & Marine Equipment Application Form (Navicula)

Use this option to request both ship time and equipment.



Marine Equipment Application Form (MEA)

Use this option to request equipment only.



Active Application:



18/221 - pelagia 15-17 kaal

[view workflow](#)

The following requires your action:

- Complete cruise application form



18/220 - pelagia 2015 - 2017

[view workflow](#)

The following requires your action:

- Complete cruise application form



18/216 - mfp2



18/215 - mfp1



MFP: scientist portal, selecting the cruise location

18/221 Project Management > pelagia 15-17 kaal > Cruise Location

General Location

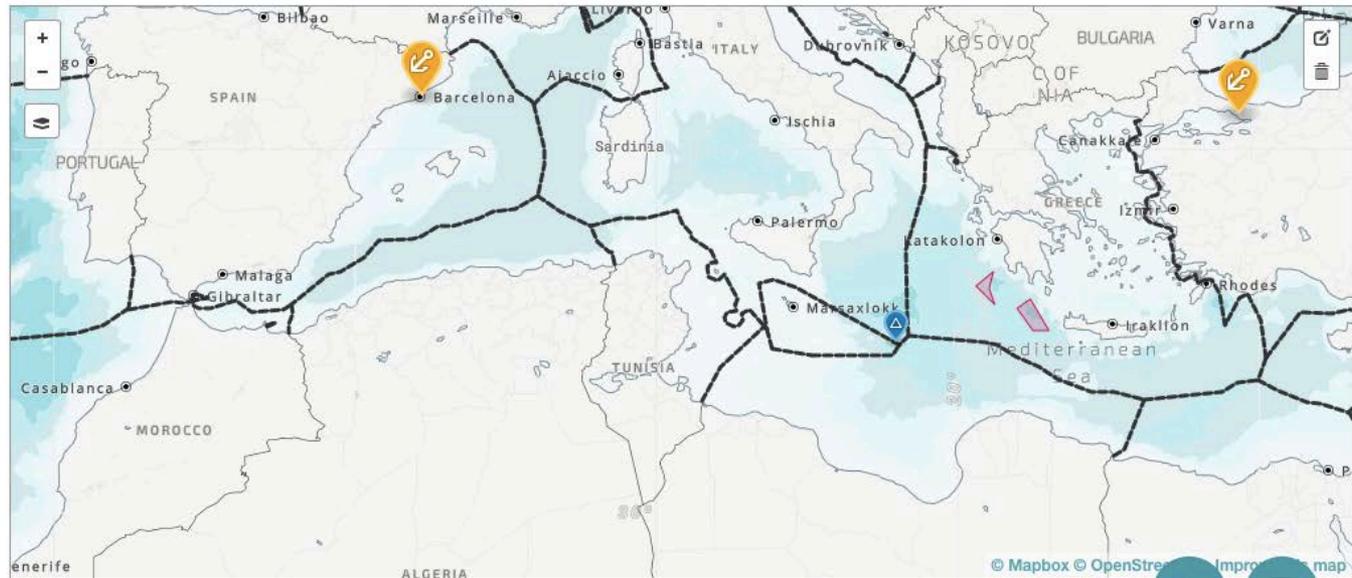
Central Mediterranean

i Please draw the cruise location on the map below. You can select a research area, transect or single sampling stations.

⊞ Add Research Area

∩ Transect

▼ Add Science Station



i Names and coordinates of the research areas and sampling stations can be changed in the table below by selecting the triangle before the



MFP: project management

MFP | NIOZ Project Management

Erica Koning

18/225 Project Management > Cruise Project Management - INDEX2018

Principle Investigator Ulrich Schwarz-Schampera
change

Project Co-Editor n.a.
change

Project Manager n.a.
change

Expand

MS equipment located at stores quarantine area n.a.

MS dispatch date n.a.

Planned mobilisation date n.a.

Planned sail date 12-10-2018

Planned docking date 10-11-2018

Planned demobilisation date n.a.

0

TABLE		GANTT		APP. FORMS		TASKS	
Name	Responsibility	Action	Status	Deadline	Completed		
1. APPLICATION STAGE - FINISHED							
Complete cruise application form	Ulrich Schwarz-Schampera	View	Complete (Rollback)		5-6-2018		
Approve cruise application form	You	View	Complete (Rollback)		5-6-2018		
Confirm availability of funding	Ulrich Schwarz-Schampera	View	Complete (Rollback)		5-6-2018		
Upload draft cruise application cost	You	View	Complete (Rollback)		5-6-2018		
2. PROGRAMME CONSTRUCTION - FINISHED							
3. CRUISE PLANNING							
Submit diplomatic clearance application	Ulrich Schwarz-Schampera	View	Complete (Rollback)	14-2-2018	5-6-2018		
check availability NMF pool equipment	Sander Asjes, Sven Ober, Lorendz Boom	Open	Active (1/3) (finish)	14-2-2018			
Cruise planning meeting	You	View	Complete (Rollback)	9-4-2018	12-6-2018		
Start review cruise application	Ulrich Schwarz-Schampera	Open	Active (1/7) (finish)	15-4-2018			
Unload shins deck			Active	13-8-			



MFP: project management

MFP | NIOZ Project Management

+ New

✎ Templates

↓ Export

EDIT WORKFLOW TEMPLATES

Cruise Project Management

Cruise Project Management
(Navicula)

Marine Equipment Application
Form

Identifier

18/225

iator

Name

User -

Jlrich Schwarz-Schampera

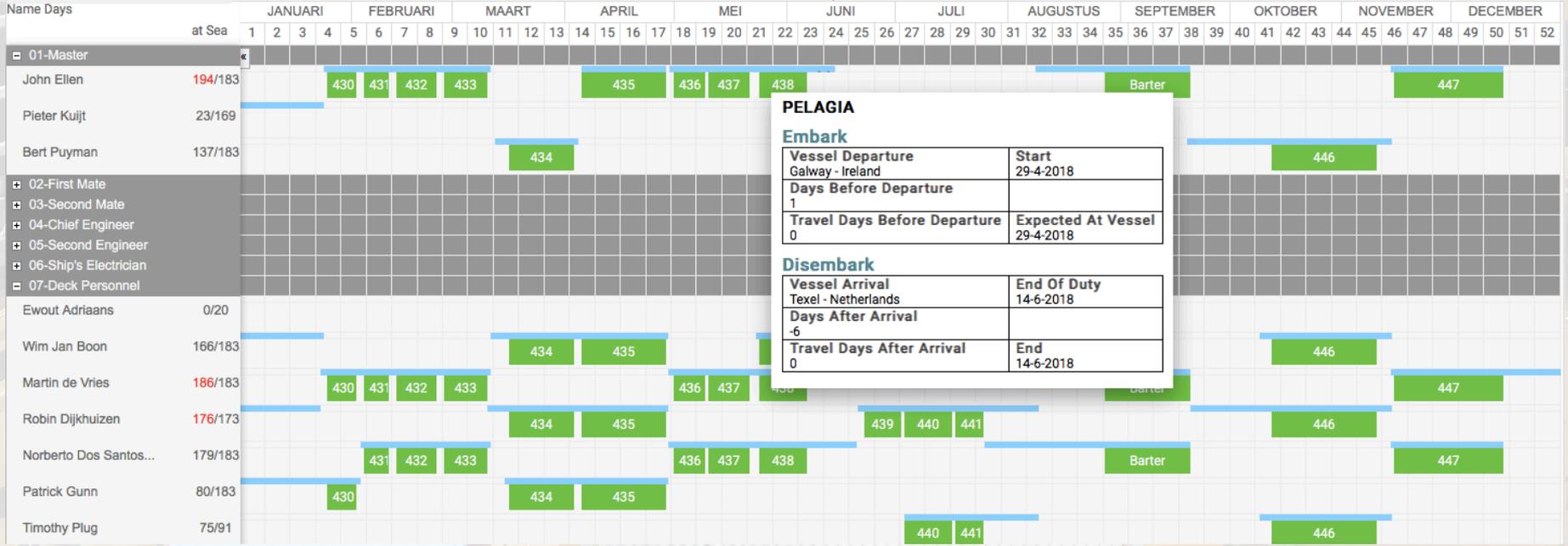
INDEX2018



MFP: personnel planning.

+ New Reporting Ships 2018 Period: 1-1-2018 - 31-12-2018

Scheduler Setup



PELAGIA

Embark

Vessel Departure	Galway - Ireland	Start	29-4-2018
Days Before Departure	1		
Travel Days Before Departure	0	Expected At Vessel	29-4-2018

Disembark

Vessel Arrival	Texel - Netherlands	End Of Duty	14-6-2018
Days After Arrival	-6		
Travel Days After Arrival	0	End	14-6-2018



MFP: programme construction. New functionality



16/048 BYPASS?

1
↓
15
↓
4

1637nm

Las Palmas de Gran Canaria

07/05/2018 01:24

Agent



2 Days in this Port



09/05/2018 01:24

15/007 Black Sea NIOZ 2017

9
↓
8
↓
3

3538nm

Port Said

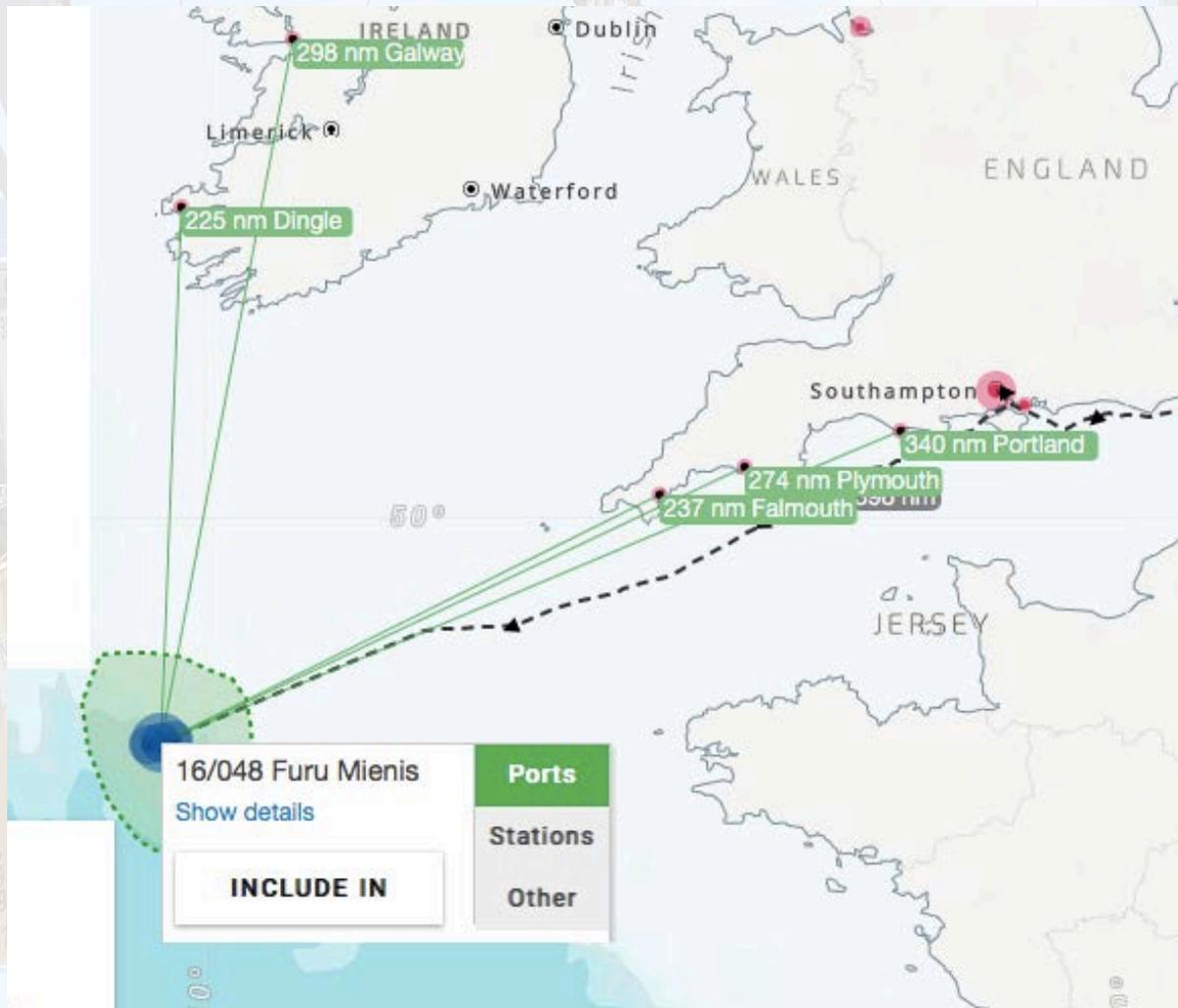
29/05/2018 08:15

Agent





MFP: programme construction. New functionality





MFP: information for the master

- Because MFP is web-based, the master on board has direct access to all relevant information related to the cruise. Science party, dangerous goods and safety sheets, diplomatic clearance, work plan, crew schedules.

MFP | Programme
Erica Koning

MY SCHEDULE HYBRID PROGRAMME MAP SHIP SCHEDULE
Ships < < Today > > Period: 1-1-2018 - 1-1-2019 12 Months

2017

DEC	JANUARI			FEBRUARI				MAART				APRIL				MEI				JUNI				JULI				AUGUSTUS				SEPTEMBER				OKTOBER				NOVEMBER								
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	45	46	47	48

Pelagia

<div style="display: flex; justify-content: space-between; font-size: 0.7em;"> 23 - WILLEMSTAD4 - ORANJESTAD - A13 - PHILIPSBURG26 - PHILIPSBURG16 - PHILIPSBURG5 - MASSAUA - BAHAMAS30 - CAJONRY - PIR10 - DINGEE - NEEL28 - TEXEL - NETH6 - AMSTERDAM - NE22 - TEXEL - NETH3 - TEXEL - NETH17 - HORTA - PORTUG22 - TERROSA - PORTUG9 - LAFONIA ITALY27 - LIMASSOL - CY20 - SAVAGA - COIT9 - REUNION BELGI15 - PORT LOUIS </div>																											
429	43	43	432	433	434	435	436	437	438	ReCel	439	440	44	442	Barter	T1	446	447									

429 17/173 Days: 25 ESLPA 28-12-2017 CWIL 22-1-2018 Frank Poet	430 17/171 Days: 8 CWIL 25-1-2018 AWORJ 2-2-2018 Frank Poet	431 17/179 Days: 7 AWORJ 4-2-2018 SXPHI 13-2-2018 SXP 11-2-2018 Femke de Jong	432 17/151 Days: 11 SXPHI 12-2-2018 SXP 10-3-2018 Mien	433 17/156 Days: 12 SXPHI 13-2-2018 SXP 10-3-2018 Mien	434 17/158 Days: 18 BSNAS 28-4-2018 Corina Brussaard	435 17/174 Days: 23 BSNAS 4-5-2018 Corina Brussaard	436 17/185 Days: 9 IEGWY 10-5-2018 Dick van Oevelen	437 17/135 Days: 11 IEDIN 24-5-2018 NLT 21-6-2018 Rob Witbaard	438 17/175 Days: 13 NLT 24-5-2018 NLAMS 6-6-2018 Rob Witbaard	RECERT/REFIT Days: 14 NLAMS 6-6-2018 NLTEX 20-6-2018	439 18/222 Days: 10 NLTEX 22-6-2018 NLTEX 2-7-2018 Helge Niemann	440 18/214 Days: 13 NLTEX 22-6-2018 NLTEX 2-7-2018 Helge Niemann	441 17/183 Days: 8 PTHOR 13-7-2018 PTTER 25-7-2018 Sabi	442 18/202 Days: 13 PTHOR 26-7-2018 PTTER 8-8-2018 Linda Amaral-Zettl	BARTER Days: 24 CYLMS 27-9-2018 EGSGA 20-9-2018	445 17/141 Days: 24 CYLMS 27-9-2018 EGSGA 20-9-2018 Augustin	T1 18/201 Days: 17 MUPL 10-2-2018 MUPL 11-2-2018 Ulrich Sch
-------------------------------------------------------------------------------------	----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	-----------------------------------------------------------------------------	---------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------	-------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------------------------------	------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------------------------	----------------------------------------------------------------------------------

NICO leg 11

code: 440

13
days

Sail date
3-7-2018 Texel - Netherlands

Dock date
16-7-2018 Horta - Portugal

Scientist
 Henk de Haas

[Cruise overview](#)

Cruise Application
Technicians 4

Form	Equipment
download	

Title of project NICO leg 11

Identifier 18/214

Last modified 29-5-2018 Henk de Haas

Submitted 12-4-2018 Henk de Haas

PRINCIPAL INVESTIGATOR

Name Henk de Haas

Organisation
Nederlands Instituut voor Onderzoek der Zee

Email henk.de.haas@nioz.nl

Telephone 0222369402

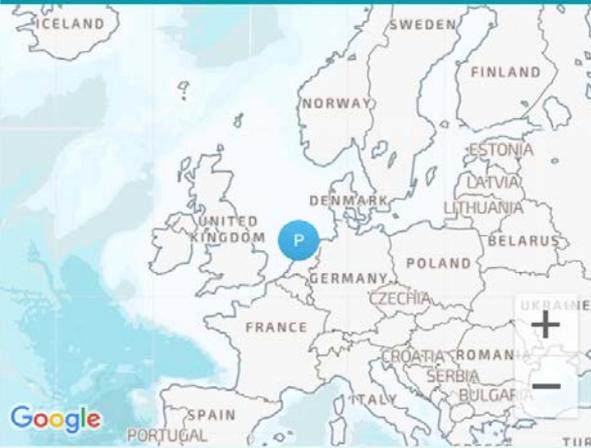


MFP phone app

☑ 60% 00:30

Marine Facilities Planning

🔄



 Ships and Cruises	 Deployments	 Your Calendar
 Scan Barcode	 Equipment	 Register Maintenance

☑ 60% 00:31

Cruises

CURRENT CRUISES PLANNED CRUISES

- NICO leg 11**
03-07-2018 Texel - Netherlands
16-07-2018 Horta - Portugal
Henk de Haas 440
- Nico Leg 12**
17-07-2018 Horta - Portugal
25-07-2018 Terceira Island Apt - Portugal
Sabine Gollner 441
- Microplastics Transit Cruise**
26-07-2018 Terceira Island Apt - Portugal
08-08-2018 Catania - Italy
Linda Amaral-Zettler 442
- Black Sea 2018**
13-08-2018 Heraklion (Iraklion) (Irakleio) - Greece
25-08-2018 Limassol - Cyprus
Laura Villanueva 444
- Barter**
27-08-2018 Limassol - Cyprus

☑ 60% 00:33

PAC16



Contact

Hans van Haren

Depth
10940

Latitude
11.3348

Longitude
142.1888