Welcome to Marine Facilities Planning

This website allows scientists to request ship time on the vessels of the U.S. Academic Research Fleet.

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

Please request an account or login above
Marine Facilities Planning Tool

Today

- Introduction to MFP / System Overview
- Inventory Management
  - MFP STRS replacement – IMS Integration
  - Equipment Database
    - Equipment Fields
    - Maintenance
    - Tracking
  - Voyages & Transports
    - Creating Plan lists
  - Offline App Support
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 originated in 2011 by NIOZ.

Original Goal: Comply with Customs Warehouse Regulations > Equipment tracking.

MFP today: Modular Multi Tenant System to facilitate an integrated cruise planning process.
Marine Facilities Planning Tool

About the system - Users

marinefacilitiesplanning.com

GEOMAR

NIOZ

CSIC

UKRI

Natural Environment Research Council

VLIZ

BGR

SYKE

aad-sts.org

maps.csiro.au

mfp-ksa.org

UNOLS / US

Australian Government

Department of the Environment and Energy
Australian Antarctic Division

CSIRO

KAUST

MAAS SOFTWARE ENGINEERING
Marine Facilities Planning Tool

About the System—Integrated Modules

Proposals

- Scientist Portal

Ship Scheduling

- Programme Construction

Detailed Project Planning

Equipment Planning

Technician / Crew Scheduling

- Inventory Management
- Personnel Planning

Post Cruise Reporting

App / offline functionality

Project Management

Reporting
Marine Facilities Planning Tool

1. Pooled and Portable Equipment

- Attach questions to equipment
- Email notifications to responsible users
- Filter on Equipment usage in schedules
- Approval steps for techs / engineers
## Marine Facilities Planning Tool

### Equipment & Shiptime request

<table>
<thead>
<tr>
<th>Equipment Name</th>
<th>Marcus G. Langseth</th>
<th>Roger Revelle</th>
<th>Kilo Moana</th>
<th>Neil Armstrong</th>
<th>Blue Heron</th>
<th>F.G. Walton Smith</th>
<th>Pelican</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Positioning (DP)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gravimeter</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADCP/UHDAS – range &lt; 30m (e.g. 600kHz-1200kHz)</td>
<td>⬕</td>
<td>✓</td>
<td>✓</td>
<td>⬕</td>
<td>⬕</td>
<td></td>
<td>✓</td>
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<tr>
<td>ADCP/UHDAS – range &lt; 80m (e.g. 300kHz)</td>
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<td></td>
<td></td>
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<td>ADCP/UHDAS – range 250-350m (e.g. 150kHz)</td>
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<td>✓</td>
<td>⬕</td>
<td>✓</td>
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<td></td>
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<td></td>
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<td>HDSS (140kHz + 50kHz)</td>
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<tr>
<td>Multibeam - Deep Water (EM122/124)</td>
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<tr>
<td>Multibeam - Mid-Water (EM302)</td>
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<tr>
<td>Multibeam - Shallow-water (EM710/713)</td>
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<td></td>
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<tr>
<td>Biological multi-frequency echosounder</td>
<td>✓</td>
<td></td>
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<tr>
<td>Biological multi-frequency echosounder</td>
<td>✓</td>
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<tr>
<td>pCO2</td>
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<tr>
<td>Wave Radar</td>
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<tr>
<td>Ultra-Short Base-Line Acoustic Navigation</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCUBA</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Preferred Port of Load:**
Seattle (Washington) - United States  
(Lat:47° 40.19' N; Lon:122° 34.01' W)

**Preferred Port of Unload:**
Fort Pierce (Florida) - United States  
(Lat:27° 29.14' N; Lon:80° 18.34' W)

### Map

- **Northeast Canyons and Seamounts Marine National Monument - Marine National Monument**
- **Other Northeast - Gillnet Waters Area**
- **Offshore - Trap/Pot Waters**
Marine Facilities Planning Tool
<table>
<thead>
<tr>
<th>Month</th>
<th>Personnel Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>DY103: Porcupine Abyssal Plain - Sustained Observatory 2019 - Junior Technician</td>
</tr>
<tr>
<td>May</td>
<td>DY107: NMEP equipment trials - Junior Technician</td>
</tr>
<tr>
<td>June</td>
<td>DY110: AMT - The Atlantic Meridional Transect - Junior Technician</td>
</tr>
<tr>
<td>July</td>
<td>DY110: AMT - The Atlantic Meridional Transect - Junior Technician</td>
</tr>
<tr>
<td>August</td>
<td>DY110: AMT - The Atlantic Meridional Transect - Junior Technician</td>
</tr>
<tr>
<td>September</td>
<td>DY110: AMT - The Atlantic Meridional Transect - Junior Technician</td>
</tr>
<tr>
<td>October</td>
<td>DY110: AMT - The Atlantic Meridional Transect - Junior Technician</td>
</tr>
<tr>
<td>November</td>
<td>DY110: AMT - The Atlantic Meridional Transect - Junior Technician</td>
</tr>
<tr>
<td>December</td>
<td>JCP192: RAPID 26’N - Junior Technician</td>
</tr>
<tr>
<td>January</td>
<td>JC192: RAPID 26’N - Junior Technician</td>
</tr>
<tr>
<td>February</td>
<td>JC192: RAPID 26’N - Junior Technician</td>
</tr>
<tr>
<td>March</td>
<td>JC192: RAPID 26’N - Junior Technician</td>
</tr>
<tr>
<td>April</td>
<td>JC192: RAPID 26’N - Junior Technician</td>
</tr>
</tbody>
</table>
Introduction Inventory Management System

• The ability to maintain detailed records on all assets, tasks, contacts, purchases, scheduled and unscheduled maintenance, calibrations, certifications and much more.

• Ensure compliance with customs requirements through professional reporting, planning and secure equipment tracking

• Fully integrated with the Programme Construction Module. Availability of equipment

• Stakeholders: Equipment owners, Customs Department, Management, etc

• The system enables you to know exactly where your equipment is, where it has been, where it will be in the future and if it is fit to use (including calibrations).
# Marine Facilities Planning Tool

## Inventory Management System (IMS) – Equipment Overview

**Reporting:** Create various reports for selected equipment

**Preferred Columns:** Create the view with data that is relevant to you

**Column Filters**
Marine Facilities Planning Tool

Inventory Management System (IMS) – Equipment Details

Slocum Glider 438

General Information
- Type: Glider vehicle
- Generic Equipment: Slocum Glider
- Name: Slocum Glider 438
- Status: Active
- Serial Number: 438
- Pool Equipment

Ownership
- Group: NMF Gliders
- In use by: -

Equipment Characteristics
- Characteristics: 240 x 80 x 90 cm
- Weight: 50.00 kg
- Serviceable

TracknTrace
- Barcode: 250008449
- Base Location: NOC Southampton » Labs » W1/75 (MARS Glider Mezzanine)
- Current Location: NOC Southampton » Labs » W1/65 (MARS Glider Workshop)

Remarks
Individual glider components separated out for shipping. Please see attached document "Giders on IMS - split assets_06032017" for a summary of split asset values and residual value of vehicle once components are removed.

Equipment Codes
No equipment codes have been specified.
• The IMS maintenance functionality can be used to make sure equipment is fit to use.

• Individual maintenance entries can be made by selecting an item of equipment and navigating to the maintenance tab

• It is possible to create maintenance policies for sets of generic equipment
Each activity is assigned a policy;

1. **Periodic** – Maintenance that is conducted at a set interval, 6 monthly, annual, 2 annual etc. *Hydraulic flexible change, test equipment calibration.*

2. **Pre-deployment** – Action required to prepare equipment for sea. *Functional test on a winch, lab container checklist.*

3. **Post-deployment** – Action required to return equipment to RTG state. *Airgun cleaning and servicing, clean and polish ROV.*
Marine Facilities Planning Tool

Maintenance - Notifications

Individual Equipment Subscription

Seabird SBE 43 Dissolved Oxygen Sensor - Ti 7,000m (CTD)

Subscribe to Notifications

Subscribe to multiple equipment

Expiring certification - Beta

Maintenance, Tests and Calibrations expiring

Name: 1.6t Lebus GP Winch
Serial number: 0W91-2806-02
Barcode: 240002529
Name of maintenance/test/calibration: OED 155: Load & bear
Date of validation: 15/07/2008
Date of expiry: 14/07/2013
Note/Status: Reminder
Please open this task.
# Marine Facilities Planning Tool

## Inventory Management System (IMS) – Tracking

### KUMQUAT K/MT 562

<table>
<thead>
<tr>
<th>Display</th>
<th>Store Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Display Icon] Geomar Helmholtz Centre for Ocean Research Kiel</td>
<td>27.08.2019 13:25</td>
<td></td>
</tr>
<tr>
<td>![Display Icon] Inchcape Shipping Services</td>
<td>08.03.2019 15:15</td>
<td>26.04.2019 09:10</td>
</tr>
<tr>
<td>![Display Icon] Langseth 2019 Suva - Honolulu</td>
<td>05.02.2019 16:32</td>
<td>08.03.2019 15:15</td>
</tr>
</tbody>
</table>
# Marine Facilities Planning Tool

## Inventory Management System (IMS) – Equipment Details

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Day</th>
<th>Equipment</th>
<th>Location</th>
<th>Status</th>
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<tbody>
<tr>
<td>2019</td>
<td>June</td>
<td>22</td>
<td>KIMUQAT K/MT 562</td>
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<td>ARAON 2019 Suva - Inboard RETURN</td>
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<td></td>
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<td>June</td>
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<td></td>
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<td>27</td>
<td>KIMUQAT K/MT 562</td>
<td>Korea Polar Research Institute</td>
<td>ARAON 2019 Suva - Inboard RETURN</td>
</tr>
</tbody>
</table>

*Note: The table above shows the equipment inventory and planning details for the year 2019, focusing on specific dates and locations.*
Planlists are used to group equipment, consumables and hazardous materials for shipping.

Planlist can be attached to voyages, cruises, long term deployments and transports.
### Marine Facilities Planning Tool

**Transports linked to voyages / cruises**

<table>
<thead>
<tr>
<th>PORT CALLS</th>
<th>CONNECTED TRANSPORTS</th>
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</thead>
<tbody>
<tr>
<td>2019</td>
<td></td>
</tr>
<tr>
<td></td>
<td>März 2019</td>
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<tr>
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<td>April 2019</td>
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<td></td>
<td>Mai 2019</td>
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<td>Juni 2019</td>
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<td>Juli 2019</td>
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<td>August 2019</td>
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<td>11</td>
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<td>32</td>
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<tr>
<td>34</td>
<td>35</td>
</tr>
</tbody>
</table>

- **M-154 HANDGERÄCK**
- **M154 KIEL - MINDELO**
- **M-154 LUFTFRACHT KIEL - MINDELO**
- **M-155 SIDESCAN KIEL - POINT-À-PITRE**
- **FS METEOR**
- **M154 POINTE-À-PITRE - KIEL RETURN**
- **M155 MINDELO - KIEL RETURN**
- **M-156 MINDELO - KIEL RETURN**
Marine Facilities Planning Tool
Voyages & Cruises: Planning 3 – Planlist Editor

1. Planlist Properties
   - change: edit planlist properties.
   - delete: remove the planlist and all planned items.
   - Report: create an Excel list, documents ZIP, Shipping Labels, Container Content Analysis
   - duplicate: create a duplicate planlist
   - move to: moves the content of the planlist to an selected location

2. Change the current view
3. Check equipment availability at a specific location at any point in time
4. You can add filters like ‘name’, type, user group’ to limit the number of items to select from
5. Planlist content. You can drag equipment, consumables or hazardous materials from the various views
Marine Facilities Planning Tool

2019 Atlantic

Walvis Bay - Namibia

Planned Mobilisation
... ... 

Actual Departure
31-1-2019 23:30

Inbound Transports
18:12 Rotterdam Kaapstad transport 2 Pelagia
19-12-2018 13:00 → 25-1-2019 08:00

CREW CHANGE

01-Master
Jxxxx Exxxxx

02-First Mate
Hxxxxx Dxxxxx

03-Second Mate
Pxxxxr Lxxxxx

04-Chief Engineer
Jxxxxp Sxxxxx

10-NMF Technical Support
Lxxxxz Bxxxxm

11-Nutrient Lab
Kxxxxl Bxxxxr

05-Second Engineer
Ixxxxo Mxxxxr

EQUIPMENT

Customs Reports
g

Customs Report - Based on Planning
Customs Report - Based on Tracking
Pack List
Loading Plan

Planned: 161
Actual: 0
Hazardous Substance: No

Planlists

Darci & Zeynep - FUNAMOX 2019

00001 R00001 - All

0/7 0/10

NMF support FunamoX/Angola

L00001 B00001 - All

0/40 0/75

Peter Kraal - FUNAMOX 2019 - Transport 1

P00001 K00001 - All

0/13 0/16

Add Planlist
Marine Facilities Planning Tool

Main Screens

MFP syncing database with your device

- Ships and Cruises
- Deployments
- Your Calendar
- Scan Barcode
- Audit
- Register Maintenance

Sync Data With Server

- Scanner Functionality
- Project Management
- Map
- Personal Schedule

Log Out
Maintenance

If the timer has not yet been activated, you can immediately exit time tracking for manual input.

Duration Time Tracking
00:00:00

Duration Time Tracking
00:38:32

Description

Attachments:

SAVE

SAVE
Marine Facilities Planning Tool

Deployments

- GeoSEA A310
  - Dietrich Lange
  - Planned

- kpo_1195
  - Peter Brandt
  - Active

- kpo_1196
  - Peter Brandt
  - Planned

- kpo_1197
  - Peter Brandt
  - Planned

- kpo_1198
  - Peter Brandt
  - Active

- kpo_1201
  - Peter Brandt
  - Active

- kpo_1201
  - Peter Brandt
  - Planned

- kpo_1202
  - Johannes Karstensen
  - Planned

- MARSITE G2301
  - Dietrich Lange
  - Active

- MARSITE G2302
  - Dietrich Lange
  - Planned

GeoSEA A310

OVERVIEW

Contact
- Dietrich Lange

Planned Depth
- 2746

Latitude
- 20.799

Longitude
- 70.81566666667

Description
- Station: A101
- Transponder Address: 2701
- Unit ID: 00372A

1/2 Scan Components

- AR861 NMEP
  - 260002765
  - 03:24PM 11/27/2020

- MetOcean Novatech IR-7300 IRIDIUM
  - 26056872765
  - 04:57AM 08/09/2020

- SBE 37 SMP CTD DINES
  - 560002765
  - 01:11PM 04/20/2020

- TRDI ADCP 300KHz Workhouse Sentinel + Kit NMEP
  - 023469736
  - 10:53AM 07/30/2020

- AR861 NMEP
  - 2693485003
  - 05:33PM 08/12/2020

CONTINUE
Inventory Management System – More Functionality.

Equipment Management System

- Proforma Invoice / Customs List
- Lock Transports
- (Official) Audits
- One-Way consumable planlists
- Deployments
- Dashboard
- Reporting
Marine Facilities Planning Tool

Introduction - modules

- Inventory Management
- Personnel Capabilities
- Personnel Planning
- Programme
- Programme Construction
- Project Management
- Scientist Portal
ADD CORRECTIVE MAINTENANCE EVENT

Name

Duration
   Days : Hours : Minu...

Reason For Repair
   - Reason -

☐ Safety Related
☐ External Contractor

EDIT CORRECTIVE MAINTENANCE EVENT

Duration
   1 : 13 : 0

☐ Safety Related
☐ External Contractor

Notes
Slipping has been refurbished by MacArtney and has been reinstalled in the storage drum and fully tested. Successful PASS test achieved.

CANCEL  SAVE