



6<sup>th</sup> Session – virtual Meeting – 16 and 18 March 2021

# History and protocols with the SOT-ID Submitting Metadata to OceanOPS

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# The SOT-ID: Identifier issues in a nutshell

- Issues with SOT station identifiers have a long history (SOT 4 and 5, 2007-09)
- ITU Call signs are non-unique and re-allocated, change when the ship changes the flag and create security and other concerns (piracy areas, government ships, ...)
- IMO numbers do not change, but are neither allocated to all ships, nor processable by all data-centers (only digits) and also create security concerns
- Numerous ships host more than one station, e.g. manual and automated weather stations, or underway, XBT and ASAP systems, all requiring individual IDs (WIGOS)
- Based on best practices from other networks (DBCP, Argo) with WMO-IDs, a Task Team suggested a new identifier series to the SOT, then OCG and eventually JCOMM
- All these bodies endorsed the SOT-ID scheme, and countries still using masks agreed to replace them by SOT-IDs

# Annex to Decision 32 (JCOMM-5, reworded)

SOT-9 recommended to adopt a new scheme that would provide unique identifiers for marine observing facilities on ships. The Recommendation includes the following:

- OceanOPS will issue WIGOS Identifiers for marine observing facilities on ships with a dedicated <issuer of identifier> assigned to OceanOPS;
- The local identifier will be exactly seven characters: n1n2n3n4n5n6n7; n1,n4,n5,n6 will be letters or digits; n2,n3,n7 will be letters. This will also form the SOT-ID;
- No information, such as type of station, link to ship, operator, etc., will be encoded into the SOT-ID;
- Changes to the assigned SOT-ID will be governed according to decision trees below
- Each ship hosting or deploying instruments shall be assigned a unique hull or platform ID as part of a wider GOOS ship list. The IMO number (if available) or ICES Ship Code should be used for this purpose, with new ICES codes requested when a new ship is recruited.

# Example of WIGOS and SOT-ID

0 – 22000 – 0 – VVF6BZR

Station

OceanOPS

Issue Number

SOT-ID

[Home](#)

[Search](#)

[Critical review](#)

Station

Instrument

Contact

Bibliographic Reference

[Homepage](#) > [Search](#) > [Station search](#) > [Station report details](#)

[Edit](#) [Download](#)

## 1402553\_100

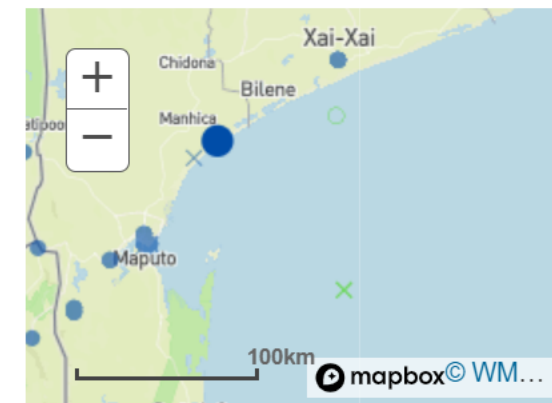
Last updated: 2021-01-18 by DC JCOMMOPS

### ▼ Station characteristics

Name: 1402553\_100  
 Station alias:  
 Date established: 2019-07-22  
 Date closed:  
 Declared reporting status: Operational  
 Calculated reporting status: Operational  
 Station type: Sea (mobile)  
 WIGOS Station Identifier(s):

WIGOS Station Identifier	Primary
--------------------------	---------

0-22000-100-1402553	<input checked="" type="checkbox"/>
---------------------	-------------------------------------



Program / network affiliation	Program specific ID	Status	Calculated status	Declared status	From	To
COPERNICUS-HRSST-FRM	1402553	Approved	Operational	Operational	2019-07-22	

Coordinates: > 25.4650°S, 32.9710°E, 0m, (unknown)

Time zone:

Supervising organization:

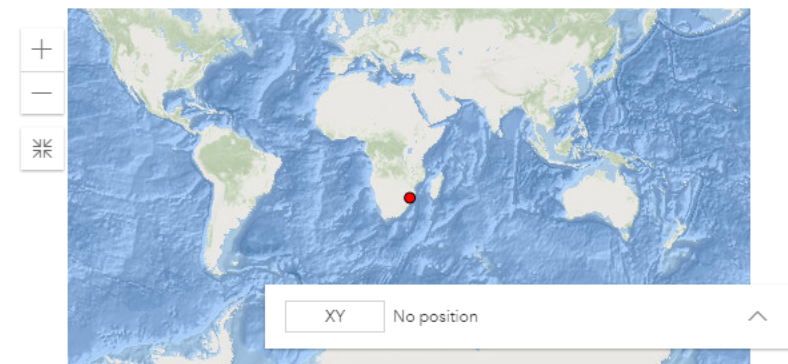
Station URL: [https://www.ocean-ops.org/board/wa/Platform?ref=1402553\\_100](https://www.ocean-ops.org/board/wa/Platform?ref=1402553_100)

## Main information

HF

Sites	<a href="#">PONOE MOZCHANNEL</a>	WMO ID	1402553
Reference	1402553_100	WIGOS ID	0-22000-100-1402553
Internal ID	TRUS-06		<a href="#">View in OSCAR</a>
Status	INACTIVE <span>ⓘ</span>	Telecom	IRIDIUM (# 300234066511990)
Country	EUROPEAN UNION (COPERNICUS HRSST FRM)	Networks	Global Drifter Array
Model	<a href="#">SVP_BRST</a> (SVP)		DBCP
		Ship	<a href="#">BEAUTEMPS-BEAUPRE (35B5 - France)</a> <span>🇫🇷</span>

## Tracking lifecycle



## Technical details

Battery	Alkaline
Battery pack	72
Serial number	SC40 Y18 N0104
Cycle time	1 h
Ice detection	No

Sensors	
<a href="#">NKE_CTN</a>	
<a href="#">SST_OTHER</a>	
End date	2020-03-18T00:00:00

[DROGUE\\_STRAIN\\_GAUGE](#)  
CURRENT


<a href="#">MOSENS (Serial N°: 468D)</a>	
PRES, HRSST	
End date	2020-03-18T00:00:00

[VAISALA\\_PTB110 \(Serial N°: P3340609\)](#)  
BAROMETER\_ELECTRONIC\_DIGITAL

## Main information

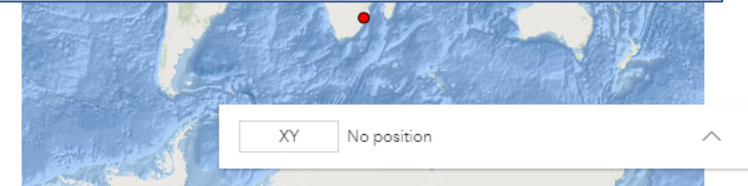
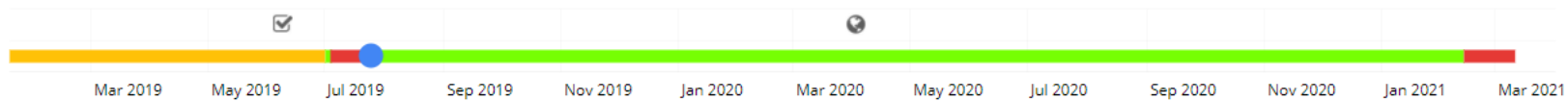
HF

Sites [PONOE MOZCHANNEL](#)  
 Reference 1402553\_100  
 Internal ID TRUS-06  
 Status **INACTIVE** [i](#)  
 Country EUROPEAN UNION (COPERNICUS HRSST FRM)  
 Model [SVP\\_BRST](#) (SVP)

**WMO ID** 1402553  
**WIGOS ID** 0-22000-100-1402553  
[View in OSCAR](#)  
**Telecom Networks** IRIDIUM (# 300234066511990)  
 Global Drifter Array  
 DBCP  
**Ship** [BEAUTEMPS-BEAUPRE \(35B5 - France\)](#) 

## Tracking lifecycle

	Deployed	Latest observation
Latitude	-22.5	-25.465
Longitude	40.6	32.971
Date	2019-07-22T00:00:00	2021-01-14T00:59:00



## Technical details

Battery Alkaline  
 Battery pack 72  
 Serial number SC40 Y18 N0104  
 Cycle time 1 h  
 Ice detection No

Sensors  
[NKE\\_CTN](#)  
 SST\_OTHER  
 End date 2020-03-18T00:00:00

[DROGUE\\_STRAIN\\_GAUGE](#)  
 CURRENT

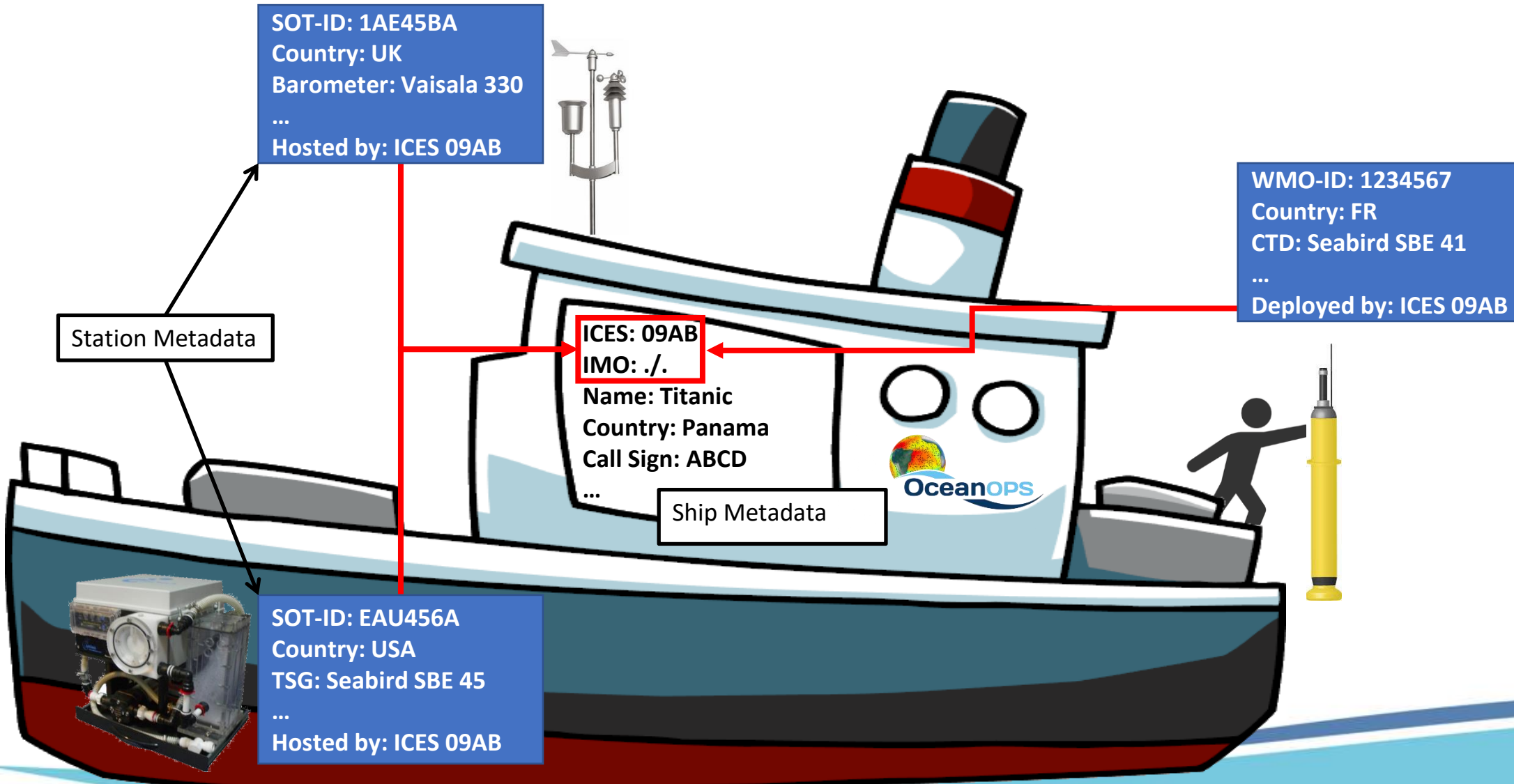
[MOSENS \(Serial N°: 468D\)](#)  
 PRES, HRSST  
 End date 2020-03-18T00:00:00

[VAISALA\\_PTB110 \(Serial N°: P3340609\)](#)  
 BAROMETER\_ELECTRONIC\_DIGITAL



# Ships host observing facilities, without being such a facility

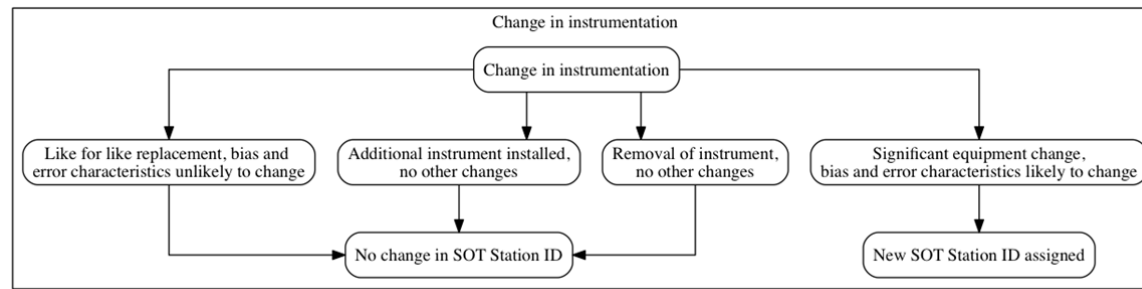
All observing facilities installed on, or deployed by a ship, refer to the shared unique Ship-ID (ICES/IMO)





# New SOT-ID?

## Decision trees



- Instrumentation moved to different ship: new SOT-ID; Change in network operator or recruiting country: new SOT-ID;
- Significant instrumentation change (likely to change bias or error characteristics): new SOT-ID;
- Replacement of instruments (like for like, no change to bias or error characteristic): no new SOT-ID;
- Change of ship owner, flag, callsign, name, etc. but no change of instrumentation: no new SOT-ID;
- Additional instrument installed or removal of instrument: no change of SOT-ID.

**A manual is underway!**

## Metadata Format Version 04

## Semi-colon delimited exchange format – element descriptions, formats and sequence

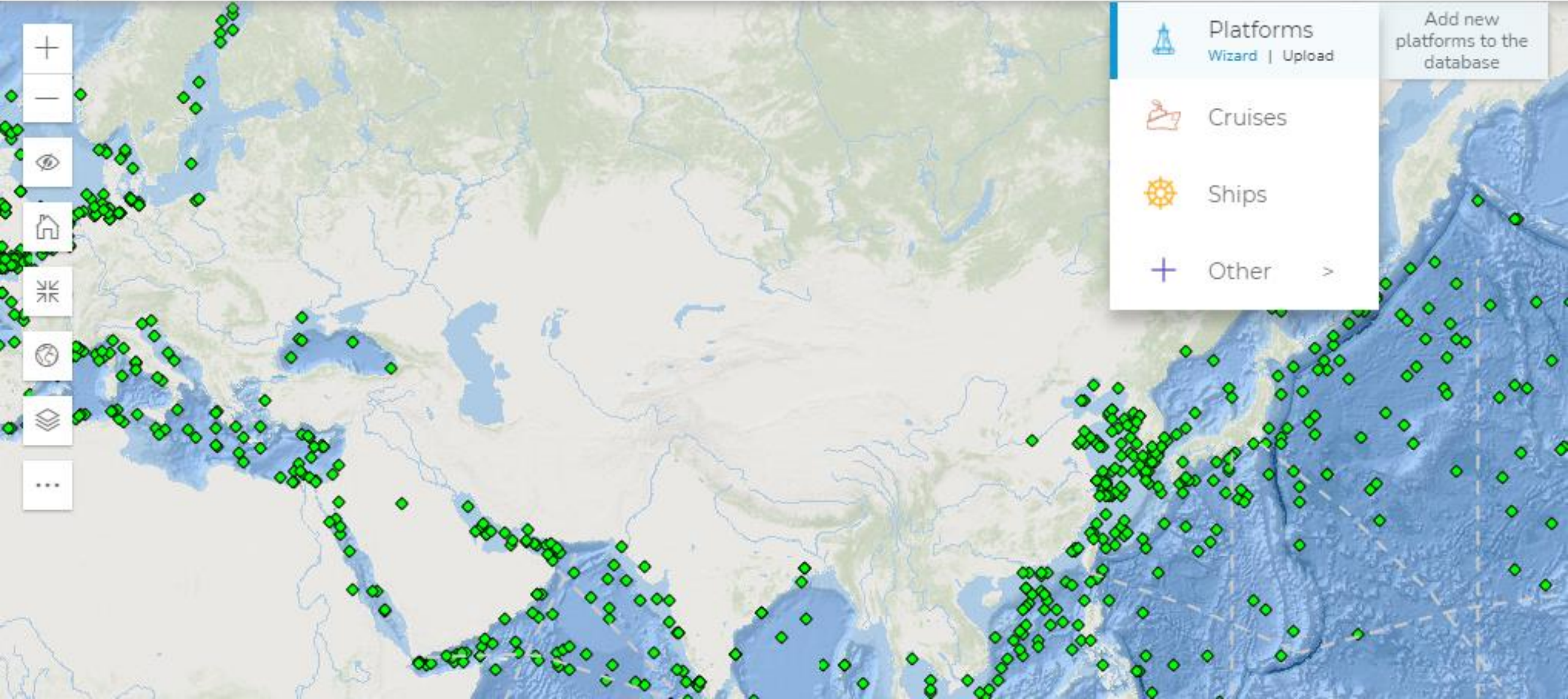
Order	Code Name	Explanation	Table	Format	Footnote	Example
1	rcnty;	Recruiting country.	1801		No	04
2	ver;	Metadata format version			No	
3	prepared;	Date of report preparation.		ddmmyyyy	No	
4	name;	Ship's name.	1801		No	
5	reg;	Country of registration.			No	
6	call;	Call sign or WMO Number. Some sea stations are identified by a WMO Number instead of a call sign.			No	
7	IMOn;	IMO Number. Unique identifying number assigned by Lloyd's Register to the hull of the ship.		No		
8	vssl;	Vessel type.	2201		Yes	
9	vsslP;	Vessel digital image.	2203		No	
10	lenvssID;	Length overall of the ship, ignoring bulbous bow.		0.0 m	No	
11	brdvssID;	Moulded breadth. The greatest breadth amidships.		0.0 m	No	
12	frbvssID;	Freeboard. The average height of the upper deck above the maximum Summer load line.		0.0 m	No	
13	drfvssID;	Draught. The average depth of the keel below the maximum Summer load line.		0.0 m	No	
14	chtvssID;	Cargo height. Maximum height above the maximum Summer load line.		0.0 m	No	
15	brdg;	Distance of the bridge from the bow.		0.0 m	No	
16	spd;	Maximum operating speed of the vessel on normal service.		0 kts	No	
17	rte;	Route No.1.	1802		Yes	
18	rte;	Route No.2.	1802		Yes	
19	rte;	Route No.3.	1802		Yes	
20	rte;	Route No.4.	1802		Yes	
21	rte;	Route No.5.	1802		Yes	
22	rte;	Route No.6.	1802		Yes	
23	rte;	Route No.7.	1802		Yes	
24	rte;	Route No.8.	1802		Yes	











Select



-  Platforms  
Wizard | Upload
-  Cruises
-  Ships
-  Other >

Add new platforms to the database



Select



Add Platform ^ \_ □ ×

- STEP 1 Networks
- STEP 2 Main details**
- STEP 3 Deployment
- STEP 4 Sensors

Enter main information

VOS-NL x ▾

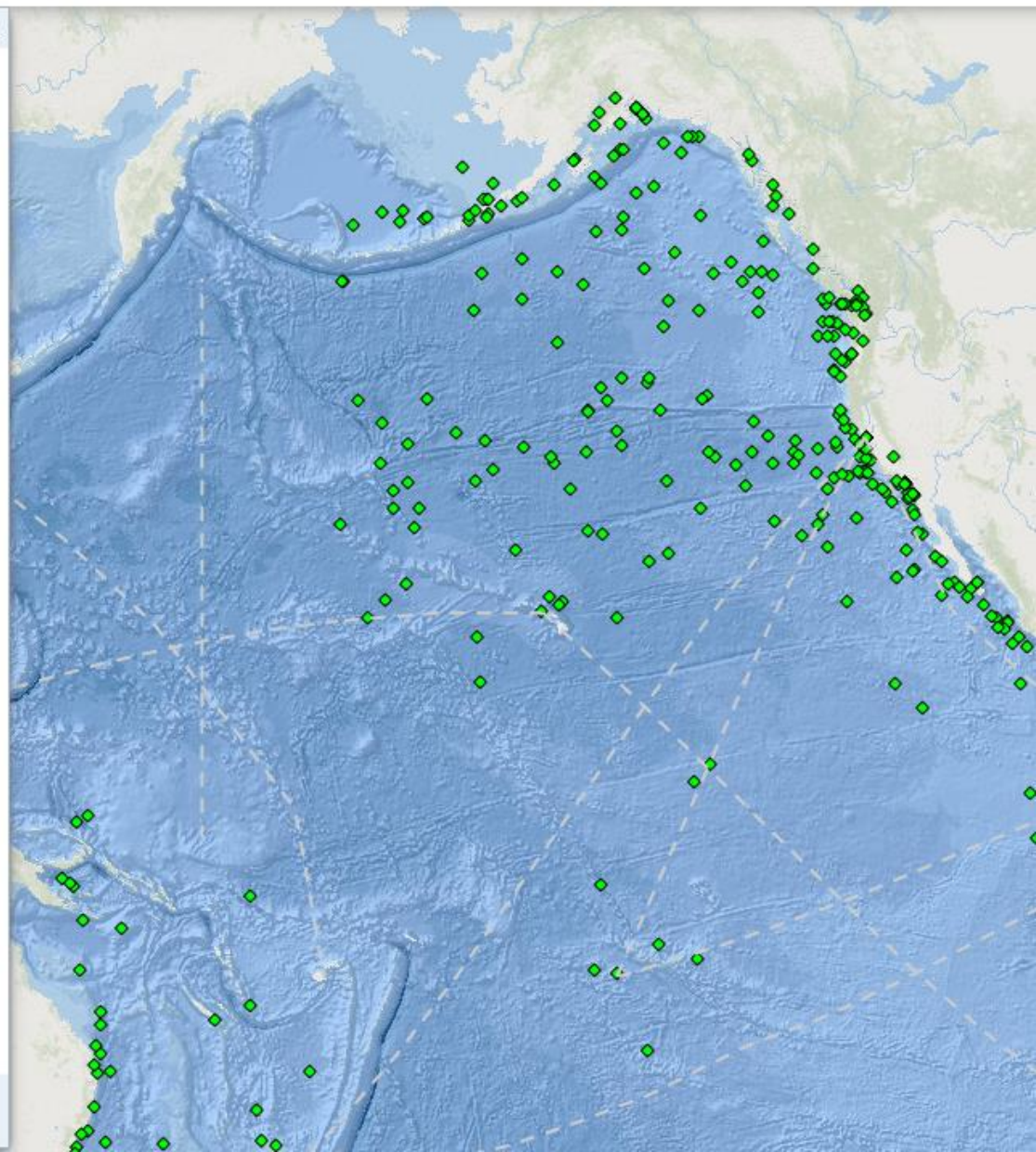
*i* x VOS x

30 - VOSClim x ▾

Request new GTS-ID

UNKNOWN x ▾

Telecom number





Select



Add Platform

- STEP 1 Networks
- STEP 2 Main details
- STEP 3 Deployment**
- STEP 4 Sensors

Enter deployment information

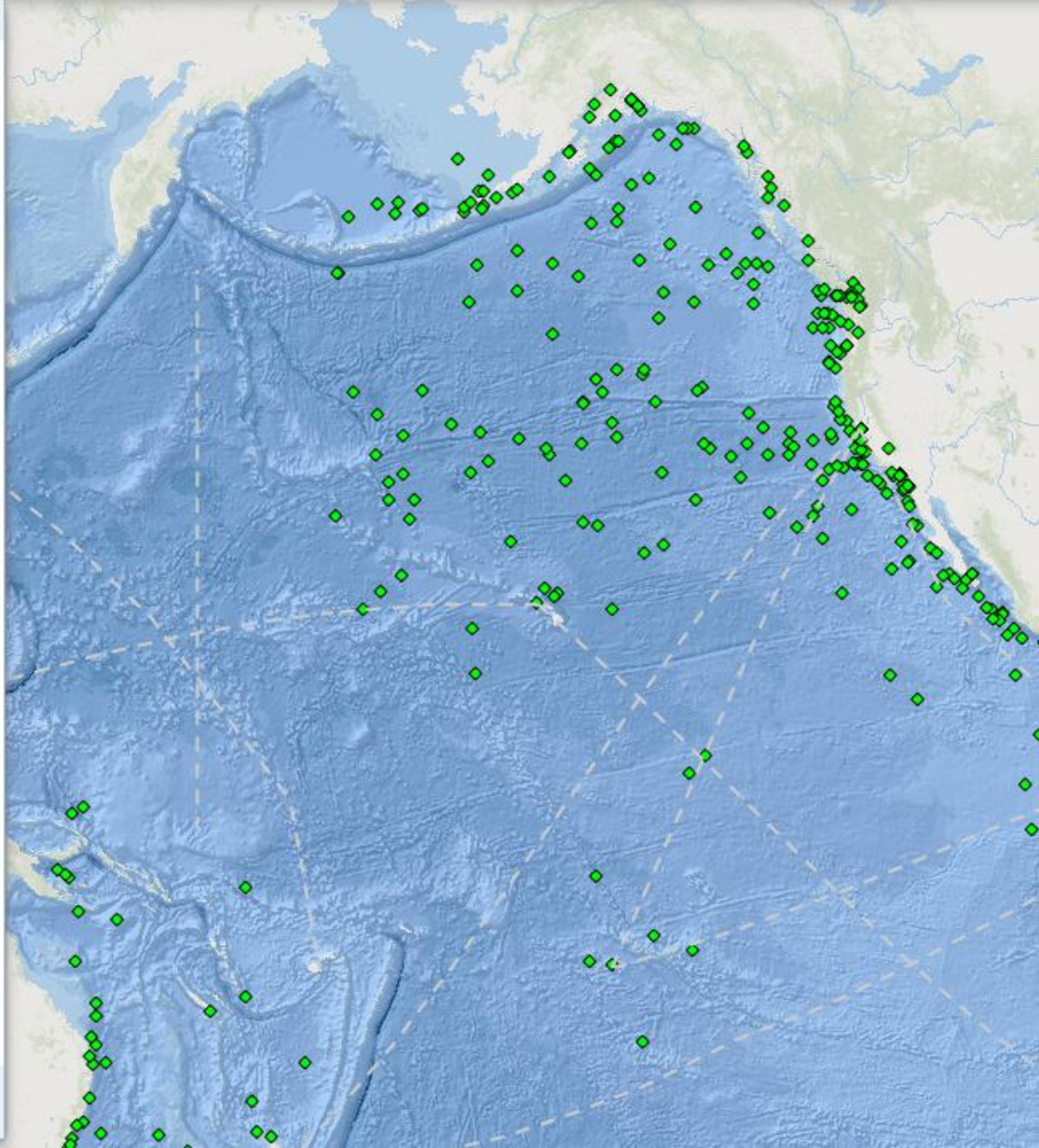
2021-03-25 18:00:00

Latitude Longitude Water depth

Ship - type in here a name, IMO, call sign or ICES code

Kimi

MAERSK KIMI (CS: PDHO / IMO: 9162227)  
Netherlands - Container ships



Add Platform

- STEP 1 Networks
- STEP 2 Main details
- STEP 3 Deployment**
- STEP 4 Sensors

Enter deployment information

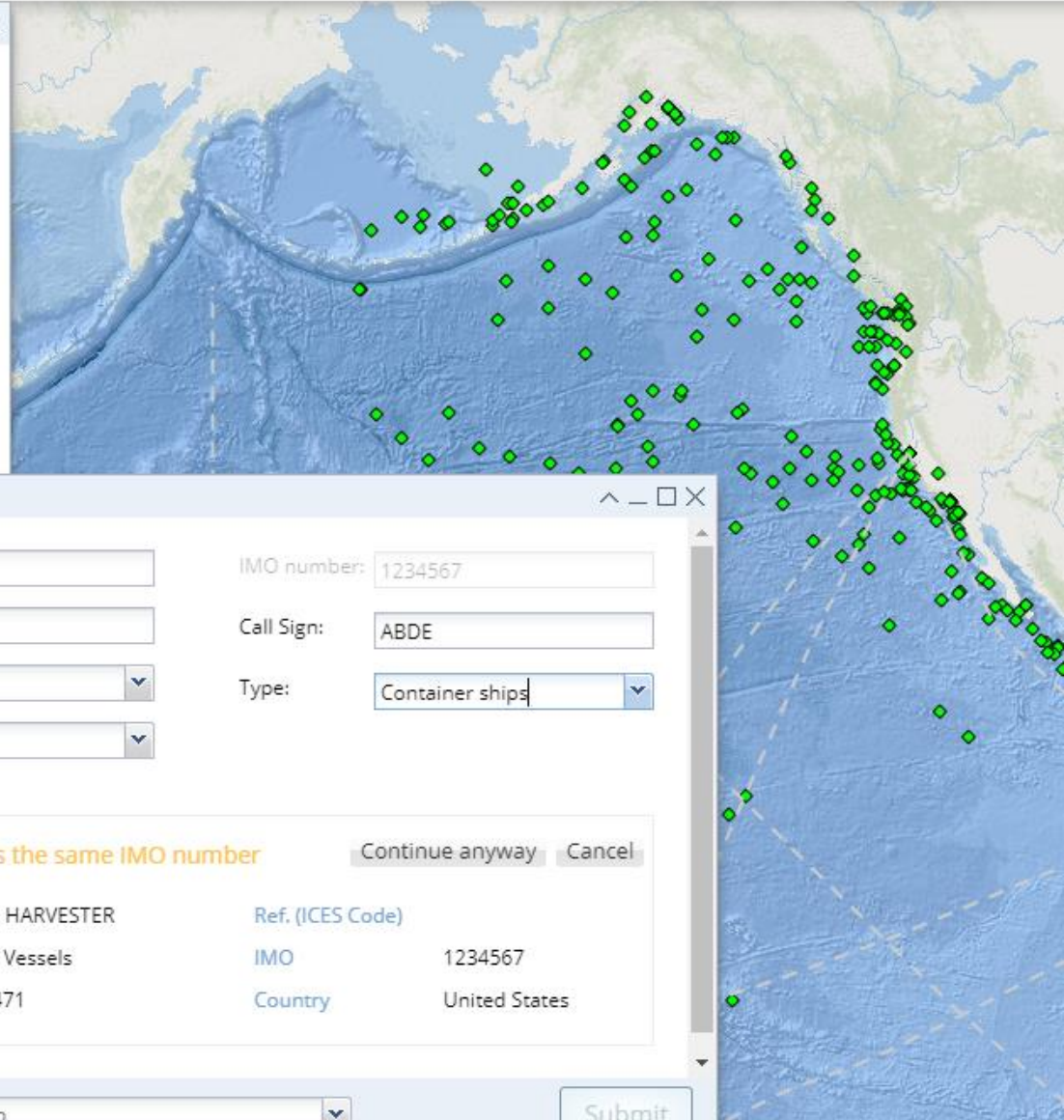
2021-03-25 18:00:00

Latitude Longitude Water depth

Ship - type in here a name, IMO, call sign or ICES code

If ship is not found in list please [add it here](#)

Notify individuals concerned



Register Ship

ICES Code:  IMO number: 1234567

Name: TESTSHIP Call Sign: ABDE

Country: Argentina Type: Container ships

Validation: Pending

**Warning: this ship has the same IMO number** [Continue anyway](#) [Cancel](#)

Name	OCEAN HARVESTER	Ref. (ICES Code)	
Type	Fishing Vessels	IMO	1234567
Call Sign	WBO5471	Country	United States

[Edit an existing ship](#)





Select



Add Platform



The platform has been saved and notified.



PROBABLE

Reference  
GTS ID

VF6BZR  
VF6BZR

[Show details](#)[Add additional information](#)

Open the full edit form

[Delete platform](#)[Add another](#)

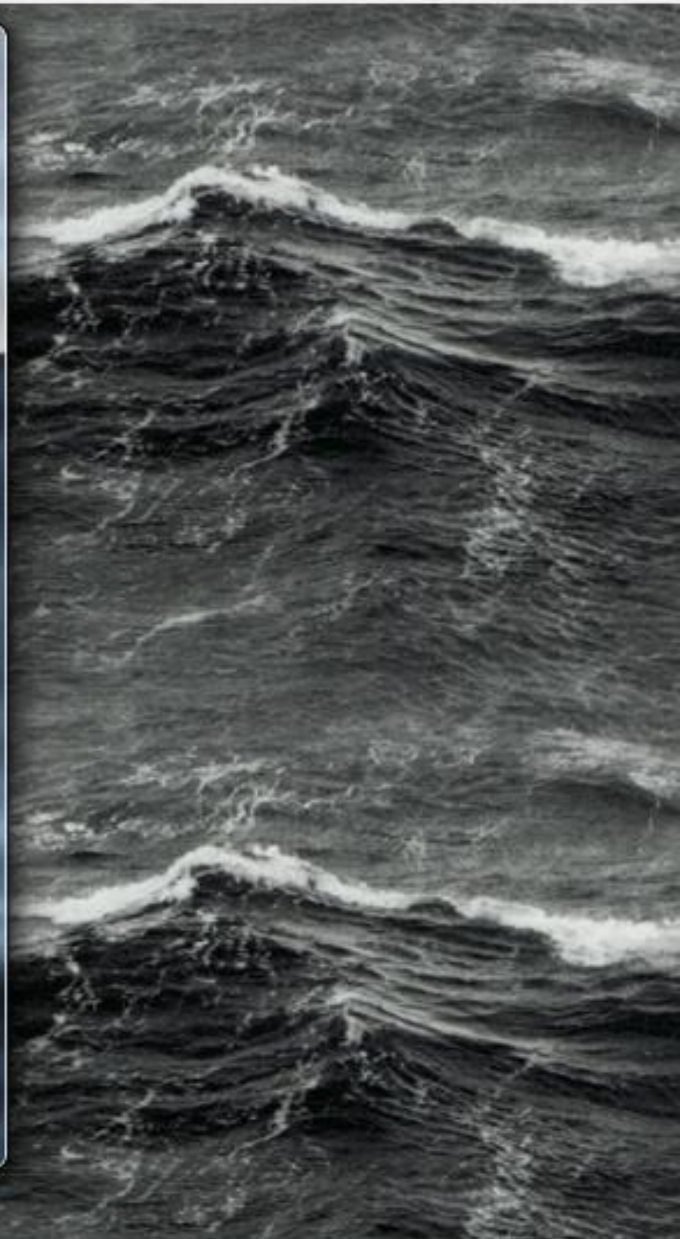




Call sign / VOS ID (masked call sign) X

Station-ID

TurboWin





# MIGRATION PHASE

Emails containing updates should be now sent to [ship-tc@jcommops.org](mailto:ship-tc@jcommops.org)



March 10, 2021, 17:39



Users Account Management  
VOS Recruitment Requests  
Contacts (send mail)

User logged : ship-tc - VOS Fleet managed : ZZ

logout

**VOS MANAGEMENT** ■ VOS/COUNTRY ■ OPERATE CSV FILES ■ OPERATE XML FILES ■ OPERATE MASKS ■ MAINTENANCE ■ HELP

Home | Login Traces | Database Queries(List/Modify) | Record a new VOS | Dubious Duplicate list (all) | Dubious Duplicate list (ZZ)

country like '%NL%' ...

**IMOn like '%9162227%...**

New Query

## STATIONS LIST ACCORDING TO CRITERIA

IMOn like '%9162227%' and pub47record.seaStation = vos\_service.seaStation and pub47record.seaStation IN ( select seaStation from met\_prgm where (vsslM <> 90 and vsslM <> 95))

Actual inactive VOS ( mean no more on actual WMO submission ) are displayed in yellow colour

\*\* 1 record(s) found in database conformed to criteria \*\*

Quick new query by Call Sign :

Search

New Query

Duplicate Single PUB4

Export Results  
in CSV File v4b

Export Results  
in CSV File v4

Export Results  
in CSV File v3

Export Results  
in XML File

Export Results  
in XML File V4

Positions of last Obs (Googlemaps)

Observation counters for this selection

Observation Counters

From : Feb 2021

To : March 2021

	country	call_sign	nmsID	name	IMOn	atm code	vsslM code	prST code	Mask	Date last modif and Author									
	NL	PDHO	0	MAERSK KIMI	9162227	5	30	CTH	No mask	20201110 [rozeboom]								<input type="checkbox"/>	<input type="checkbox"/>

**DUPLICATE [ NAME : MAERSK KIMI / CALL\_SIGN : PDHO / nmsID : 0 ]**

==> You want to duplicate in ESURFMAR database the record [ NAME : MAERSK KIMI / CALL\_SIGN : PDHO / nmsID : 0 ].

==> Enter the CALL SIGN for the record to be created. All PUB47 fields will be copied in the new record ( with same nmsID and country) except the GTS identifiers fields and the maintenance fields.

Enter new Call Sign for duplication :

**PHASE**  
**How sent to ship-tc@jcommops.org**

March 10, 2021, 17:39

Users Account Management  
 VOS Recruitment Requests  
 Contacts (send mail)

■ MASKS ■ MAINTENANCE ■ HELP

Obvious Duplicate list (ZZ)

**GO TO CRITERIA**  
 and pub47record.seaStation IN ( select seaStation from met\_prgm  
 sslM <> 95))

(mission ) are displayed in yellow colour

pick new query by Call Sign :

- 
- 
- 
- 
- 
- 
- 

**Observation counters for this selection**  
 From :  To :

	country	call_sign	nmsID	name	IMOn	atm code	vssIM code	prST code	Mask	Date last modif and Author								
	NL	PDHO	0	MAERSK KIMI	9162227	5	30	CTH	No mask	20201110 [rozeboom]							<input type="checkbox"/>	<input type="checkbox"/>

# MIGRATION PHASE

Emails containing updates should be now sent to [ship-tc@jcommops.org](mailto:ship-tc@jcommops.org)



March 10, 2021, 17:59



Users Account Management  
VOS Recruitment Requests  
Contacts (send mail)

User logged : ship-tc - VOS Fleet managed : ZZ

VOS MANAGEMENT VOS/COUNTRY OPERATE CSV FILES OPERATE XML FILES OPERATE MASKS MAINTENANCE HELP

country like '%NL%' ... **IMOn like '%9162227%...** ... [New Query](#)

## STATIONS LIST ACCORDING TO CRITERIA

IMOn like '%9162227%' and pub47record.seaStation = vos\_service.seaStation and pub47record.seaStation IN ( select seaStation from met\_prgm where (vsslM <> 90 and vsslM <> 95))

Actual inactive VOS ( mean no more on actual WMO submission ) are displayed in yellow colour

\*\* 2 record(s) found in database conformed to criteria \*\*

Quick new query by Call Sign :

[New Query](#)

[Export Results in CSV File v4b](#)

[Export Results in CSV File v4](#)

[Export Results in CSV File v3](#)

[Export Results in XML File](#)

[Export Results in XML File V4](#)

[Distribution per VOS class](#)

[Positions of last Obs \(Googlemaps\)](#)

Observation counters for this selection

[Observation Counters](#) From :  To :

	country	call_sign	nmsID	name	IMOn	atm code	vsslM code	prST code	Mask	Date last modif and Author									
	NL	PDHO	0	MAERSK KIMI	9162227	5	30	CTH	No mask	20201110 [rozeboom]							<input type="checkbox"/>	<input type="checkbox"/>	
	NL	VVF6BZR	0	MAERSK KIMI	9162227	5	30	CTH	No mask	20210310 [jcommops]							<input type="checkbox"/>	<input type="checkbox"/>	

# STATION METADATA UPDATE

[Name](#) = MAERSK KIMI | [Country](#) = NL | [Call sign](#) = VVF6BZR | [nmsID](#) = 0

| [Pub47record](#) | [Pub47dataset](#) | [Digital image](#) | [Dimensions](#) | [Vos service](#) | [Met prgm](#) | [Operations](#) | [Automated](#) |  
| [Barometer](#) | [Dry bulb](#) | [Hygrometer](#) | [Sea temp](#) | [Barograph](#) | [Anemometer](#) | [Other](#) |

## Maintenance AREA :

| [Obs Reports Subscription](#) | [Ship Contacts details](#) | [Inspection reports](#) |

[Back to Query](#)

### Pub47record group

**IMOn**

==> *Pub47 WMO code name : IMOn : IMO Number. Unique identifying number assigned by Lloyd's Register to the hull of the ship*

**nmsID**

==> *NMS reference number. Unique reference or identifier (if applicable) : for file importation, if nmsID is not defined in file, the nmsID will be computed by the application relying on the atm field value (atm=1,2,3 : nmsID = 1 and atm = 4,5 : nmsID=0)*

**name**

==> *Pub47 WMO code name : name : Ship's name*

**reg**

==> *Pub47 WMO code name : reg : Country of registration of the ship*

**call\_sign**

==> *Pub47 WMO code name : call : Call sign or WMO Number. Some sea stations are identified by a WMO Number instead of a call sign*

**vssl**

==> *Pub47 WMO code name : vssl : Vessel type , select from the list or specify in footnote*

**vssl\_footnote**

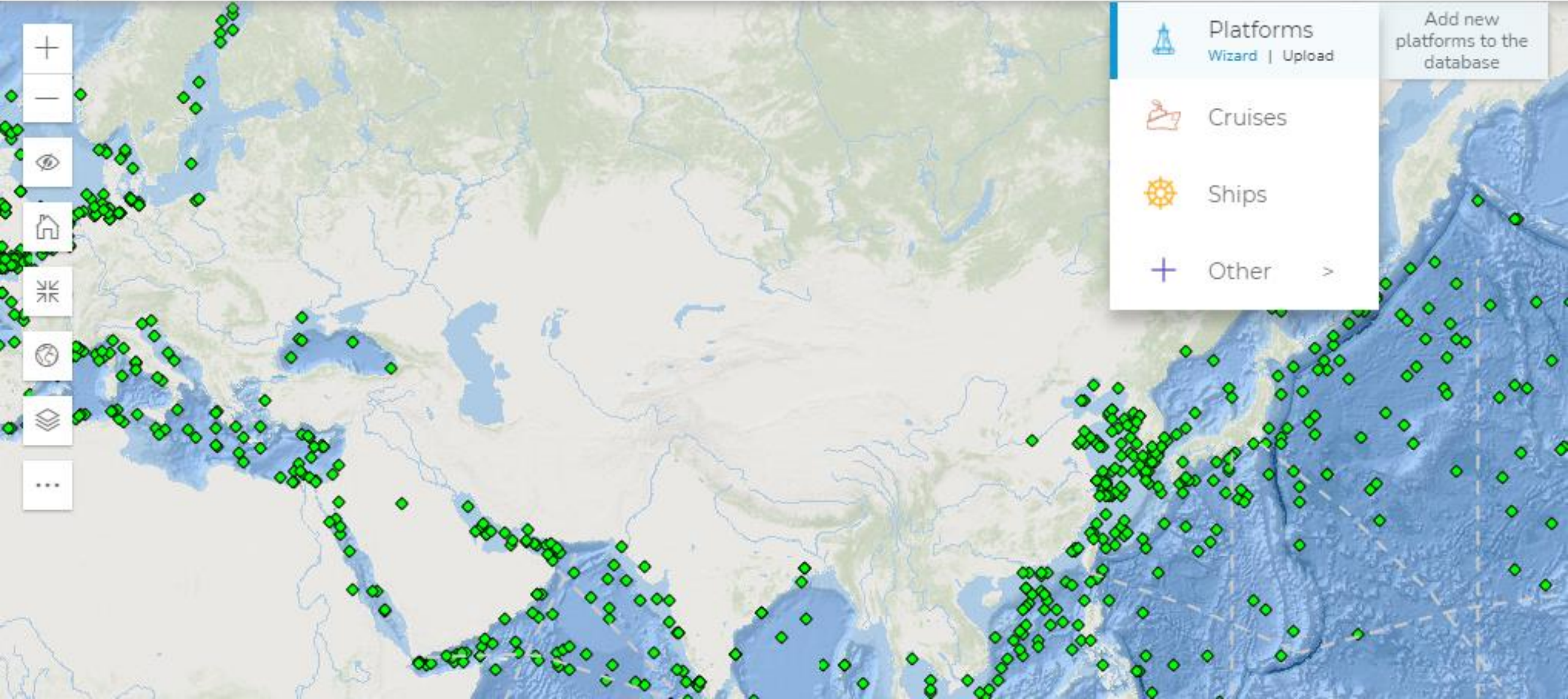
==> *Footnote for vssl type : mandatory extra details if code OT is reported in vssl field, optional in other cases*





**chgd (yyyymmdd)**



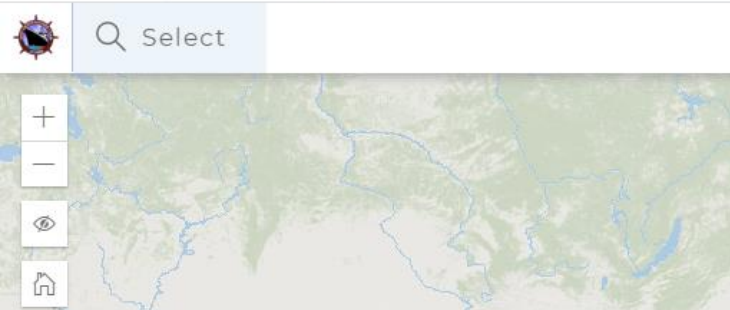


Select



-  Platforms  
Wizard | Upload
-  Cruises
-  Ships
-  Other >

Add new platforms to the database



Submit | Charts | Maps | Metrics

C:\Users\mkramp\Desktop\SOT test CSV.txt - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

```
SOT test CSV.txt
1 WMO; REF; NAME; MODEL; PROGRAM; DEP
2 1245653; 6100002_017; GOLFE DU L
```

Platform uploader

Draft #1 SOT test CSV.txt

**Confirm ship changes?**

The ship name/ref matched an existing ship in our database, but some of the other values are different. Do you want to override our existing values with the values in this file?

Field name	Existing value	New value
IMO	9443401	4564567
ICES	MHZG	PO78
Call sign	V7QG2	DBBE
Vessel length	345	72.4
Vessel breadth	54	12.5
Freeboard	8	1.7
Draft	12	5.1
Cargo height	-	34.1
Distance bridge-bow	284	40
Max speed	-	11.4

Confirm changes | Keep existing ship metadata

**Requires input**

Please select a model (no model named ODAS was found)

Model

Confirm | Confirm for all

Platform uploader

Field name	Existing value	New value
Area of operation	-	PXT1, IX22
Deployment date	-	2017-03-02 00:00:00
Deployment latitude	-	42.1
Deployment longitude	-	4.7
Deployment ship	-	AAMIRA
GTS-ID	-	1245653
Hide ship metadata	-	1
Maintenance activity	-	VOS-DE - maintenance - 2020-04-29 VOS-SG - courtesy - 2019-10-31
Name	-	GOLFE DU LION
Networks	-	DBCP
Program	-	MF MB
Reference	-	6100002_017
Schedule of observation	-	Every year
Ship IMO	-	4564567
Ship call sign	-	DBBE
Ship contact sea email	-	Not public
Ship contact shore email	-	
Ship contact shore name	-	BLE-Hamburg
Ship distance bridge-bow	-	40
Ship draft	-	5.1
Ship freeboard	-	1.7
Ship height	-	34.1
Ship max speed	-	11.4
Ship reference (ICES)	-	PO78
Shipping company	-	Carniva Shell
Target inspection interval	-	Hourly
Telecom format	-	FM13
Telecom latency	-	2.1

#1

Load



### Register Ship

ICES Code:	<input type="text"/>	IMO number:	<input type="text"/>
Name:	<input type="text"/>	Call Sign:	<input type="text"/>
Country:	<input type="text"/>	Type:	<input type="text"/>
Shipping company:	<input type="text"/>	Contact name:	<input type="text"/>
Shore email:	<input type="text"/>	Sea email:	<input type="text"/>
Vessel length (m):	<input type="text"/>	Vessel breadth (m):	<input type="text"/>
Freeboard (m):	<input type="text"/>	Draft (m):	<input type="text"/>
Cargo height (m):	<input type="text"/>	Distance bridge-bow:	<input type="text"/>
Max. speed (knots):	<input type="text"/>	Hide ship metadata:	<input type="checkbox"/>
Validation:	<input type="text" value="Validated"/>		

### Inspect Platform 6100002\_017

Name	GOLFE DU LION	GTS-ID	1245653
Ref. / SOT-ID	6100002_017	Networks	SOT
Status	PROBABLE	Ship	<a href="#">AAMIRA (Marshall Islands)</a>
Country	GERMANY (ASAP-AWI)	Area (lines)	<a href="#">PX11</a> , <a href="#">IX22</a>
Model	<a href="#">OT - Other Class</a> (VOS Manual Weather Station)		

#### Tracking lifecycle

	Deployed	Latest observation
Latitude	42.1	-
Longitude	4.7	-
Date	2017-03-02T00:00:00	-

2021-01-05  
ASAP-AWI Courtesy  
[Open Event log](#)

### Inspect Ship QUEEN ELIZABETH

Info

Activity

History

Edit

<b>Name</b>	QUEEN ELIZABETH	<b>Ref. (ICES Code)</b>	
<b>Type</b>	Passenger Ships	<b>IMO</b>	9477438
<b>Call Sign</b>	ZCEF2	<b>Country</b>	Argentina
<b>Shipping company</b>		<b>Contact shore email</b>	
<b>Contact name</b>		<b>Contact sea email</b>	
<b>Length</b>	293.8 m	<b>Breadth</b>	32.2 m
<b>Freeboard</b>	-	<b>Draft</b>	8 m
<b>Height</b>	-	<b>Distance bridge-bow</b>	38.7 m
<b>Speed</b>	-		

#### Technical details

<b>Target inspection interval</b>	Once a month	<b>Sensors</b>	<a href="#">444 (Serial N°: 11) (primary)</a>
<b>Schedule of observation</b>	Every 2 years	<b>aaaa, tt2, GEN_CTD_SAL</b>	
		<b>End date</b>	2021-02-05T15:49:24
		<b>Location</b>	CODE_LOCATION_#1
		<b>Side indicator</b>	null
		<b>Exposure</b>	CODE_EXPOSURE_#1
		<b>Calibration date</b>	2021-02-05
		<b>Height above the deck</b>	-21 m
		<b>Distance from the bow</b>	-18 m
		<b>Distance from centre line</b>	-17 m
		<b>Next calibration date</b>	2021-02-05T00:00:00
		<b>Service schedule</b>	Every 2 years
		<b>Data processing method</b>	M1
		<b>Status</b>	operational
		<b>Sampling period</b>	-2
		<b>Total sampling period</b>	2

### Register Ship

ICES Code:

IMO number:

Name:

Call Sign:

Country:

Type:

Shipping company:

Contact name:

Shore email:

Sea email:

Vessel length (m):

Vessel breadth (m):

Freeboard (m):

Draft (m):

Cargo height (m):

Distance bridge-bow:

Max. speed (knots):

Hide ship metadata:

Validation:

### Add Platform

STEP 1 Networks

STEP 2 Main details

STEP 3 Deployment

STEP 4 Sensors

### Inspect Platform 6100002\_017

Name	GOLFE DU LION	GTS-ID	1245653
Ref. / SOT-ID	6100002_017	Networks	SOT
Status	PROBABLE	Ship	AAMIRA (Marshall Islands)
Country	GERMANY (ASAP-AWI)	Area (lines)	PX11, IX22
Model	OT - Other Class (VOS Manual Weather Station)		

### Add sensors

Load an existing sensor

Sensor model - type in here a model name, type or manufacturer

vais

- VAISALA\_PTU200 VAISALA  
BAROMETER\_DIGITAL\_ANEROID, BAROMETER\_ELECTRIC\_DIGITAL - BAROMETER
- VAISALA\_PTB210 (BODC ID: SDN:L22::TOOL0397) VAISALA  
BAROMETER\_ELECTRONIC\_DIGITAL, BAROMETER\_ELECTRIC\_ANALOG - BAROMETER
- VAISALA\_PTB220 (BODC ID: SDN:L22::TOOL0672) VAISALA  
BAROMETER\_ELECTRONIC\_DIGITAL, BAROMETER\_ELECTRIC\_DIGITAL - BAROMETER

Sensor model	Serial N°	Data URL	Height
List of added sensors			

### Latest observation

2021-01-05	ASAP-AWI Courtesy	Jul	Open Event log
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### Inspect Ship QUEEN ELIZABETH

Info Activity History

Name	QUEEN ELIZABETH	Ref. (ICES Code)	
Type	Passenger Ships	IMO	
Call Sign	ZCEF2	Country	
Shipping company		Contact ship	
Contact name		Contact sea	
Length	293.8 m	Breadth	32.2 m
Freeboard	-	Draft	8 m
Height	-	Distance bridge-bow	38.7 m
Speed	-		

Upload

Previous Submit

Data processing method	M1
Status	operational
Sampling period	-2
Total sampling period	2



# Work in progress....

- It is strongly recommended to use SOT-IDs for every new station
- SOT-IDs have been allocated to EVERY station, including closed
- You can replace the call-sign by the SOT-ID at any time – history is maintained
- The implementation of the new SOT metadata format is underway, including a corresponding user interface adapted to SOT needs – with manual/training
- You can (and at present you **MUST**) continue to submit metadata in Pub47 format, but keep the upcoming changes in mind, in particular a SOT-ID field

**Many thanks to SOT-ID and metadata Task Team – great job and effort!**