



# OFM Dashboards

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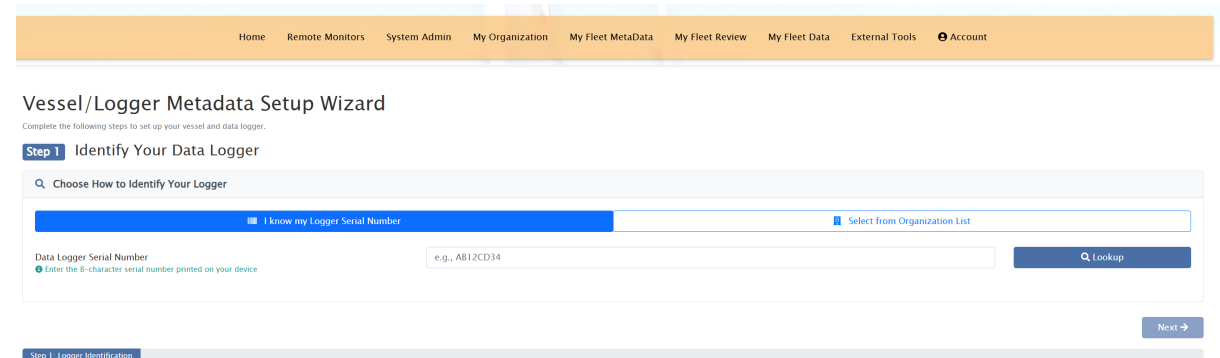
# Logger Setup

## What you need to do

- Obtain Wifi credentials
- Measure your offsets
- Identify your equipment
- Contacts and address info
- Rebooting the device will pick up any new config files and force file upload

## What we do

- Update the config files on cloud
- Update central database with metadata
- Ensure data is valid and sent to IHO dcdb and to others as needed



The screenshot shows a web interface for the 'Vessel/Logger Metadata Setup Wizard'. At the top, there is a navigation bar with links: Home, Remote Monitors, System Admin, My Organization, My Fleet MetaData, My Fleet Review, My Fleet Data, External Tools, and Account. Below the navigation bar, the title 'Vessel/Logger Metadata Setup Wizard' is displayed, followed by the instruction 'Complete the following steps to set up your vessel and data logger.' The current step is 'Step 1 Identify Your Data Logger'. The main content area has a search bar with the text 'Choose How to Identify Your Logger'. Below the search bar, there are two radio button options: 'I know my Logger Serial Number' (which is selected) and 'Select from Organization List'. Under the selected option, there is a text input field for 'Data Logger Serial Number' with a placeholder 'e.g., AB12CD34' and a 'Lookup' button. A 'Next' button is located at the bottom right of the form. At the bottom of the page, there is a progress indicator showing 'Step 1: Logger Identification'.

# Fleet management



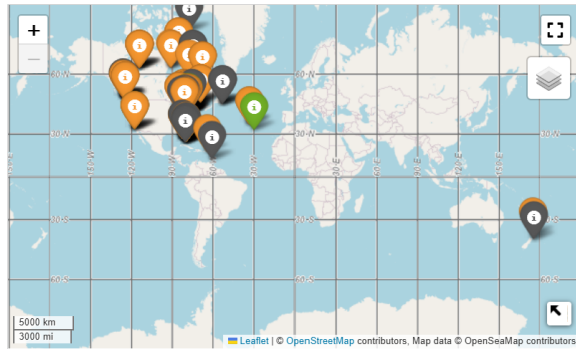
Home Remote Monitors System Admin My Organization My Fleet MetaData My Fleet Review My Fleet Data External Tools Account

## Welcome to the OFM Mussel Data Harvesting Administration Application

- Manage your fleet information
- Manage contacts and addresses
- Get data gathering and processing statistics on your CSB activities
- Perform advanced analytics on vessel data
- Leverage external tools for further analysis

My Fleet Review

View the IHO DCDB dataset hosted @ NOAA  
Visit Bathymetric Data Viewer



## Monitoring Status Loggers (as of 02-Mar-26 21:34:56 EST)

Copy CSV Excel PDF Print

50 entries per page

Search: test

Data Logger	Current Heartbeat Ind	Org	Vessel	Brand	Operating Area	Firmware
AL000001	×	OFM	TEST OFM OEM variants	mussel-s	Global - Pilot Areas - Great Lakes	None
ACT00003	×	OFM	TEST OFM OEM variants	mussel-a	Global - Pilot Areas - Great Lakes	None
47149C85	×	OFM	Test - CSB Wrk Grp Demo	mussel	Global - Pilot Areas - North America	01.08.01
ACT00002	×	OFM	TEST OFM OEM variants	mussel-a	Global - Pilot Areas - Great Lakes	3.017.1619
SMB00001	×	OFM	TEST OFM OEM variants	mussel-smb	Global - Pilot Areas - Great Lakes	0.1

showing 1 to 5 of 5 entries (filtered from 46 total entries)



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	47149C85		OFM	Test – CSB Wrk Grp Demo	mussel	Global – Pilot Areas – North America	01.08.01
<b>logger active ind</b> ✓							
<b>vessel active ind</b> ✓							
<b>logger verbose ind</b> ✓							
<b>last heartbeat</b> 2026-03-02 19:56:53							
<b>last heartbeat tdelta</b> 6.63 hours							
<b>last file recd</b> 2026-03-02 19:49:40							
<b>last file tdelta</b> 6.75 hours							
<b>last data file processed timestamp valid</b> 2026-03-02 19:49:29							
<b>last data file processed description valid</b> [process 2 csb data] No Error: XYZ single file created successfully							
<b>last data file processed timestamp invalid</b> 2026-03-02 18:43:41							
<b>last data file processed description invalid</b> Error: Converter: Min and Max Latitude are the same (or very close). Skipping file.   Processing: [generate other formats from csvxyz] FAILED– Check for XYZ file existence							
<b>last data file processed timestamp dcdb</b> 2026-03-02 19:49:41							
<b>last data file processed description dcdb</b> [import 6 indirect results iho] No Error: IHO Transmission – Success: True   Message: Submission successful.   Post URL: <a href="https://www.ngdc.noaa.gov/ingest-external/upload/csb/xyz/OFM-fd882d65-15c9-11f1-a0a5-e9bdd5b4124e">https://www.ngdc.noaa.gov/ingest-external/upload/csb/xyz/OFM-fd882d65-15c9-11f1-a0a5-e9bdd5b4124e</a>     GEOJSON File for: IHO OFM   Processed Successfully: True							
<b>storage current</b> 7/7572 Mb							
<b>storage percent</b> 0.09 %							

# Meta Data management



- Vessel info
- Configuration of offsets and equipment details
- Data distribution and formats
- Organization contact info

Crowdsourced Bathymetry  
Data Harvesting Solution  
Administration Application  
BETA ver. 2025-01-27 00:44:13.191705

Home Remote Monitors System Admin My Organization My Fleet MetaData My Fleet Review My Fleet Data External Tools Account

Vessel Listing (as of 01-Mar-26 22:22:54 EST)

Copy CSV Excel PDF Print

50 entries per page

Search: test

Actions	Vessel Name	Vessel Description	Active Ind	Active Since	Last Updated	Last Updated By
<input checked="" type="checkbox"/> <input type="checkbox"/>	CHS 10 - Test logger	TBD	<input checked="" type="checkbox"/>	Mon, 01 May 2023 00:00:00 GMT	0000-00-00 00:00:00	Process, System
<input checked="" type="checkbox"/> <input type="checkbox"/>	TEST OFM OEM variants	Emergency Service	<input checked="" type="checkbox"/>	Mon, 01 Jan 2024 00:00:00 GMT	Sun, 24 Mar 2024 13:45:44 GMT	Process, System
<input checked="" type="checkbox"/> <input type="checkbox"/>	Test - CSB Wik Grp Demo	Research	<input checked="" type="checkbox"/>	Thu, 01 Jan 2026 00:00:00 GMT	Sun, 01 Mar 2026 23:47:01 GMT	Process, System

Showing 1 to 3 of 3 entries (filtered from 57 total entries)

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Editing Table: Vessel Listing

Section - 1 - General Info

Field	Value
Vessel Id	58
System Generated	
Active Date	Thu, 01 Jan 2026 00:00:00 GMT <input type="text" value="yyyy-mm-dd --:--"/>
This is the start of the vessel gathering data	
Active Ind	<input checked="" type="checkbox"/> Enabled
Indicate if this vessel is active or not	
Inactive Date	Mon, 31 Dec 2029 23:59:59 GMT <input type="text" value="yyyy-mm-dd --:--"/>
This is the last date the vessel is active in the program	
Verbose Ind	<input type="checkbox"/> Enable
Turn this to 1 for debugging purposes	
Vessel Name	Test - CSB Wik Grp Demo
The vessel name	
Vessel Type Id	Research
Select the vessel type	

System Audit Information

NOTE: For auditing purposes, System Timestamp and User tracking are system generated

Field	Value
Last Updated By	system generated
User who last modified this record	
Last Updated Timestamp	2026-03-01 18:47:01 EST

# Data Upload

- Automated to s3
  - Mussel (original)
  - Mussel (actisense)
- Manual to s3
  - WIBL
  - TeamServ
  - Yacht Devices



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Home Remote Monitors System Admin My Organization My Fleet MetaData My Fleet Review My Fleet Data External Tools Account

File Explorer: v3.0-ofm-prod-ofmcsb-1b-incoming-data

Root

Refresh New Folder Upload Download Selected Delete Selected Filter files...

Choose files... Browse

Upload

Name	Size	Modified	Actions
ccom	--	--	
seakeepers	--	--	

Mission Statement

# Reporting - Adhoc



**Fleet Data Report**  
Generated 02-Mar-26 15:48:40 by Thomson, Colin Andrew

**SELECTED SPONSOR(S)**

Great Lakes Observing System

**OPERATING AREA(S)**

Lake Erie, Lake Huron, Lake Michigan, Lake Ontario, Lake Superior

**SELECTED LOGGER(S)**

Erie Guardian, Erie Explorer, Keenosay, SV Wind Goddess, Huron Explorer, Ontario Explorer, RV Northwestern, Vigilant, Orange Apex, RV Cisco, Loon Ranger, PARA Marine

**REPORTING PERIOD**

2021-01-01 to 2026-03-02

**HOST ENVIRONMENT**

OFM-PROD

- Fleet Information
- Processing Statistics
- Vessel Performance
- Comparison Visual

**Fleet Information | Menu**

**Total Sponsor Counts**

Sponsor	Total Loggers	Active Vessels	Inactive Vessels	Available Loggers	Deployed (%)
GLOS	19	0	19	4	78.9%

**Sponsor Area Logger Coverage**

Sponsor	Area	Active Loggers	Inactive Loggers	Allocation (%)
GLOS	Lake Ontario	3	1	21.1%
GLOS	Lake Erie	8	1	47.4%
GLOS	Lake Huron	1	0	5.3%
GLOS	Lake Michigan	1	0	5.3%

**Processing Statistics | Menu**

Vessel Statistics: Totals							
Trusted Node Name	Vessel Name	Total Pings	Total Travel Distance (nm)	Total Travel Time (hrs)	Max Depth (metres)	Min Depth (metres)	Pings Percentile Group
GLOS	Erie Explorer	1570222.0	3133.42	476.55	73.98	1.16	Top
GLOS	Erie Guardian	891991.0	1918.26	293.58	74.0	0.45	Top
GLOS	Huron Explorer	2664392.0	4828.53	749.34	198.5	0.43	Top
GLOS	Keenosay	1421124.0	2769.69	445.24	62.97	0.57	Top
GLOS	Ontario Explorer	284394.0	548.10	79.44	279.3	0.4	Top
GLOS	Orange Apex	830255.0	1793.41	242.08	72.81	0.47	Top
GLOS	PARA Marine	9405398.0	19949.27	2805.82	274.5	0.3	Top
GLOS	RV Cisco	220969.0	401.95	64.58	136.76	0.59	Top
GLOS	RV Northwestern	1310867.0	1135.78	368.31	192.45	0.32	Top
GLOS	SV Wind Goddess	987515.0	1109.91	275.08	84.82	0.39	Top
GLOS	Vigilant	11075060.0	2047.79	251.45	30.88	-13.242	Top
N/A	Total	30662187.0	39636.11	6051.47	N/A	N/A	N/A

**Vessel Statistics: Average Bathymetric Data**

Trusted Node Name	Vessel Name	Avg Travel Distance (nm)	Distance Percentile Group
GLOS	Erie Explorer	5.172632	Top
GLOS	Erie Guardian	4.402000	Top
GLOS	Keenosay	4.427333	Top
GLOS	Ontario Explorer	2.915000	Upper
GLOS	PARA Marine	2.943000	Upper
GLOS	Huron Explorer	2.169091	Median
GLOS	Orange Apex	1.672500	Median
GLOS	RV Cisco	1.630000	Median
GLOS	RV Northwestern	1.964348	Median
GLOS	SV Wind Goddess	1.660000	Median
GLOS	Vigilant	1.520588	Median
N/A	Total	30.476492	N/A

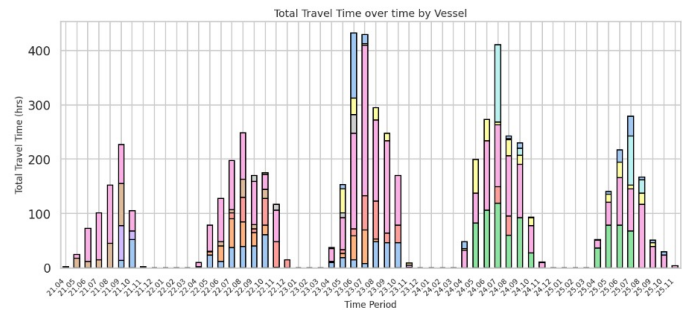
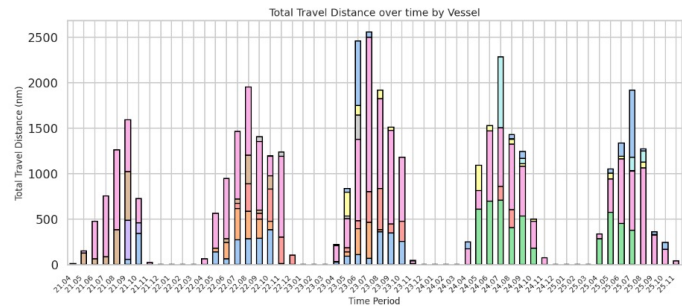
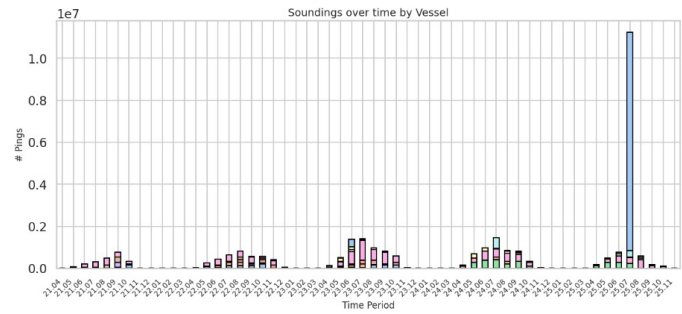
**Vessel Statistics: Average Processing Data**

Trusted Node Name	Vessel Name	Avg Processing Time (secs)	Processing Time Percentile Group
GLOS	Erie Explorer	101.493158	Upper
GLOS	Huron Explorer	101.323636	Upper
GLOS	Keenosay	105.668000	Upper
GLOS	RV Cisco	100.846000	Upper
GLOS	SV Wind Goddess	97.368571	Upper
GLOS	Erie Guardian	60.486000	Median
GLOS	Ontario Explorer	89.635000	Median
GLOS	PARA Marine	93.274000	Median
GLOS	RV Northwestern	80.928696	Median
GLOS	Vigilant	59.388824	Median
GLOS	Orange Apex	49.120000	Lower
N/A	Total	939.531885	N/A

# Statistics



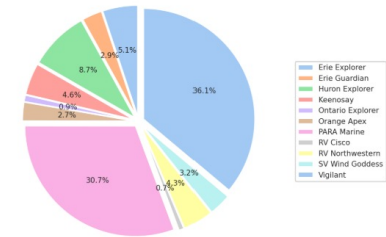
Vessel Performance | Menu



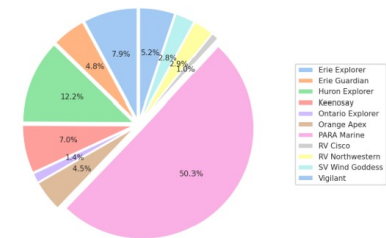
Time Period

Vessel Comparison to the Fleet | Menu

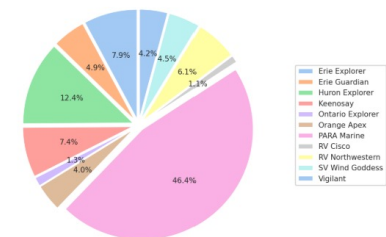
Total Pings by Vessel



Total Distance by Vessel (nm)



Total Time by Vessel (hrs)

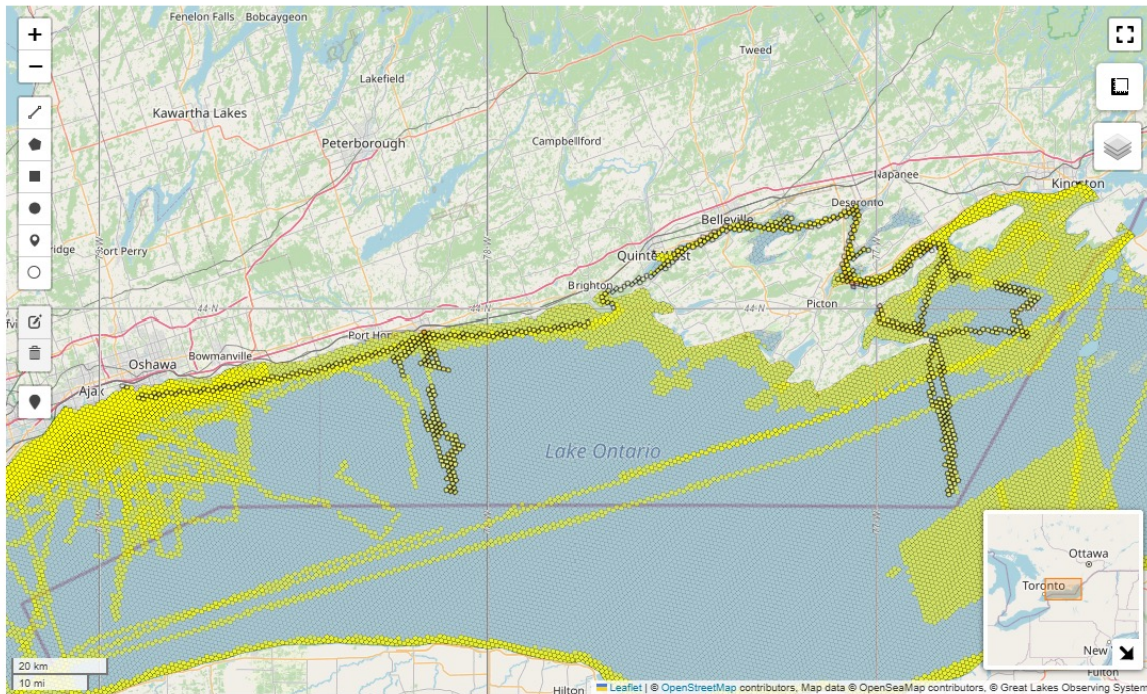


# Mapping and Visualization

Mapping Illustrations (Dynamic) - fleet data gathering | [Menu](#)

## Density Hex map

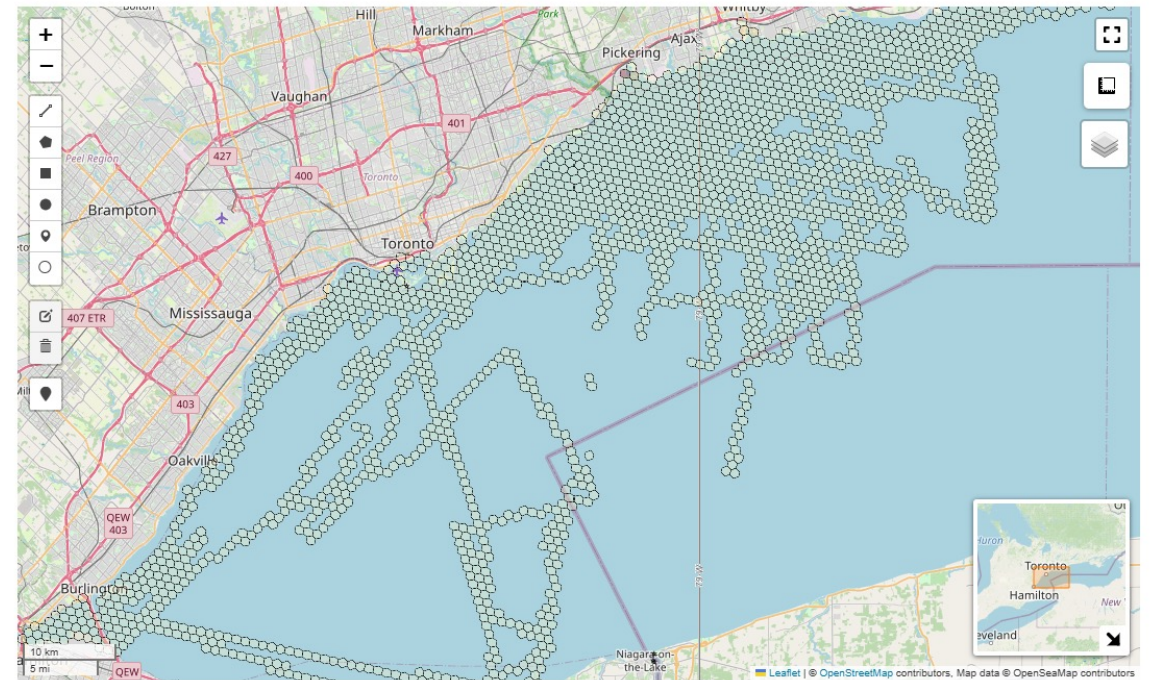
Density Hex map with resolution: 8 and zoom:10



Mapping Illustrations (Dynamic) - fleet data gathering | [Menu](#)

## Density Hex map

Density Hex map with resolution: 8 and zoom:10



Zoom Levels Definitions

# Real time monitoring



SD storage used 9/7572 MB

---

Firmware 01.08.01

---

Config synced  CRC32: 453B4F00

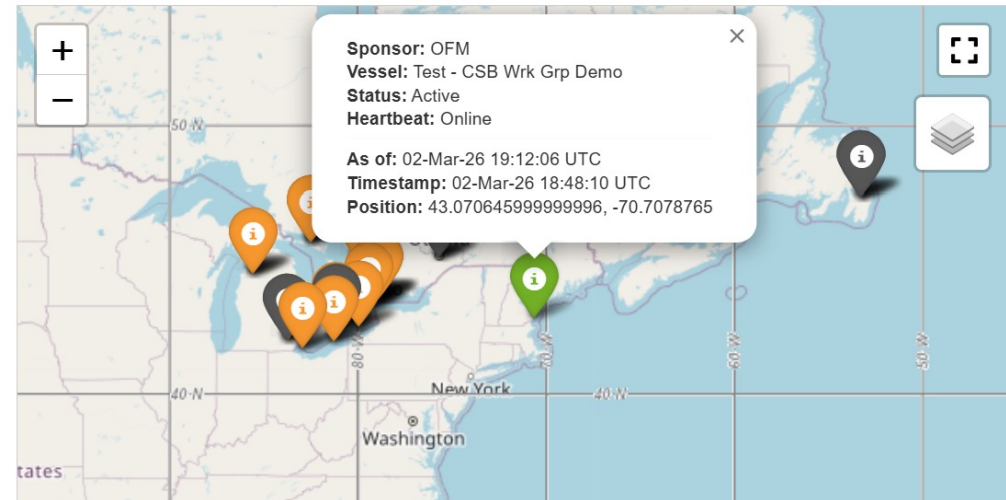
---

Last heartbeat 8 minutes ago



View the IHO DCDB dataset hosted @ NOAA  
Visit [Bathymetric Data Viewer](#)

Name	Size	Count	Start Time	Last Modified (S3)
uischema-01.08.json	23.73 KB			24-09-25 15:04
schema-01.08.json	39.89 KB			26-03-02 14:46
schema-01.07.json	37.96 KB			24-09-23 14:09
device.json	567 bytes			26-03-02 14:51
config-01.08.json	6.34 KB			25-08-08 16:24
config-01.07.json	6.28 KB			24-09-25 14:56
50000195/	8.60 MB	1	26-03-02 13:48	26-03-02 14:46
50000194/	795.25 KB	1	26-03-02 13:43	26-03-02 13:48
50000193/	1.30 MB	1	26-03-02 13:33	26-03-02 13:43
50000192/	1.93 MB	1	26-03-02 13:26	26-03-02 13:24



## Fleet Data Report

Generated 03-Mar-26 02:43:21 by Thomson, Colin Andrew

SELECTED SPONSOR(S)  
Orange Force Marine



OPERATING AREA(S)  
Global - Pilot Areas - North America



SELECTED LOGGER(S)  
USF - Sunlife, Test - CSB Wrk Grp Demo, Vigilant, Erie Guardian, PARA Marine, SV Wind Goddess, TEST OFM OEM variants, NIWA Orca



REPORTING PERIOD  
2021-01-01 to 2026-03-03



HOST ENVIRONMENT  
OFM-PROD



Fleet Information

Processing Statistics

Vessel Performance

Map Displays

### Fleet Information | Menu

#### Total Sponsor Counts

Sponsor	Total Loggers	Active Vessels	Inactive Vessels	Available Loggers	Deployed (%)
OFM	33	0	33	32	3.0%

#### Sponsor Area Logger Coverage

Sponsor	Area	Active Loggers	Inactive Loggers	Allocation (%)
OFM	Global - Pilot Areas - North America	1	0	3.0%

### Processing Statistics | Menu

#### Vessel Statistics: Totals

Trusted Node Name	Vessel Name	Total Pings	Total Travel Distance (nm)	Total Travel Time (hrs)	Max Depth (metres)	Min Depth (metres)	Pings Percentile Group
OFM	Test - CSB Wrk Grp Demo	5596.0	11.17	1.58	64.9	3.21	Lower
N/A	Total	5596.0	11.17	1.58	N/A	N/A	N/A

#### Vessel Statistics: Average Bathymetric Data

Trusted Node Name	Vessel Name	Avg Travel Distance (nm)	Distance Percentile Group
OFM	Test - CSB Wrk Grp Demo	2.23	Lower
N/A	Total	2.23	N/A

#### Vessel Statistics: Average Processing Data

Trusted Node Name	Vessel Name	Avg Processing Time (secs)	Processing Time Percentile Group
OFM	Test - CSB Wrk Grp Demo	41.0	Lower
N/A	Total	41.0	N/A

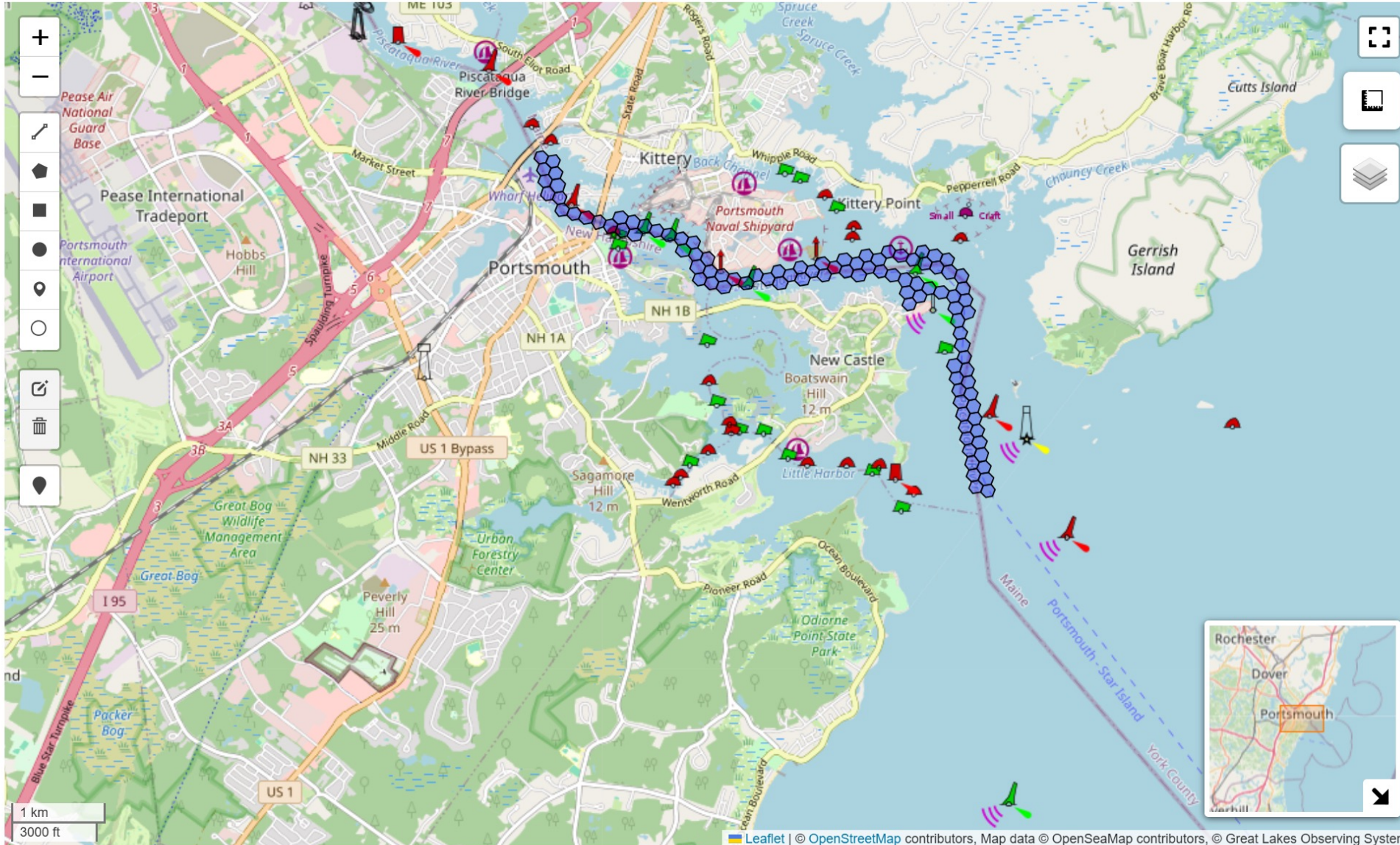


# Precision Hex map

Precision Hex map with resolution: 10 and zoom:10




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MARINE**





## Layers

### Bathymetric Surveys and Products


#### Multibeam Bathymetric Datasets

- Multibeam Datasets 
  - All Multibeam Datasets
  - Multibeam Raw
  - Multibeam Processed
  - Multibeam Products

 Filter Multibeam Datasets 


- Multibeam Survey Footprints 
- Multibeam Bathymetry Mosaic 
  - Combined Visualization
  - Processed Data Visualization
  - Raw Data Visualization

#### NOS Hydrographic Surveys and Products

- Hydrographic Survey Outlines 
- NOS Hydrographic Survey Data




Position: 70.75669° W, 43.04544° N  
Elevation: 4 meters 



- MERCATOR
- ARCTIC
- ANTARCTIC



# Vessel Dashboard – other NMEA data

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## Vessel Dashboard

Date Range:

1 Hour 6 Hours 24 Hours 7 Days 30 Days 60 Days 90 Days 6 Months 1 Year YTD Custom

2026 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Show Sections:

Map Nav Engines Batteries Fluids Weather Charts

Units:

Temp °C Pressure kPa Volume Liters Depth m Speed kts More

Start Date:

2025-09-01

End Date:

2025-10-31

Logger / Vessel:

PARA Marine – F8105622

Frequency:

10 min

Downsample:

Maximum

Load Refresh Save Download Settings

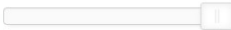
Auto-load defaults on page open Saved: F8105622

Source: Athena Bucket: v3.0-ofe-prod-ofmcsb-9a-analytics Glue DB: dbparquetdata1ake02 Mode: Athena

Loaded 1,109 records from 53 Athena tables in 218.2s 3m 45s

2025-09-01, 11:49:00 a.m. 10x

Time Zoom: All 1D 12H 6H 1H 30M 10M 2025-09-01 11:49 a.m. – 2025-10-27 03:36 a.m. (55.7 days | 1109 points)



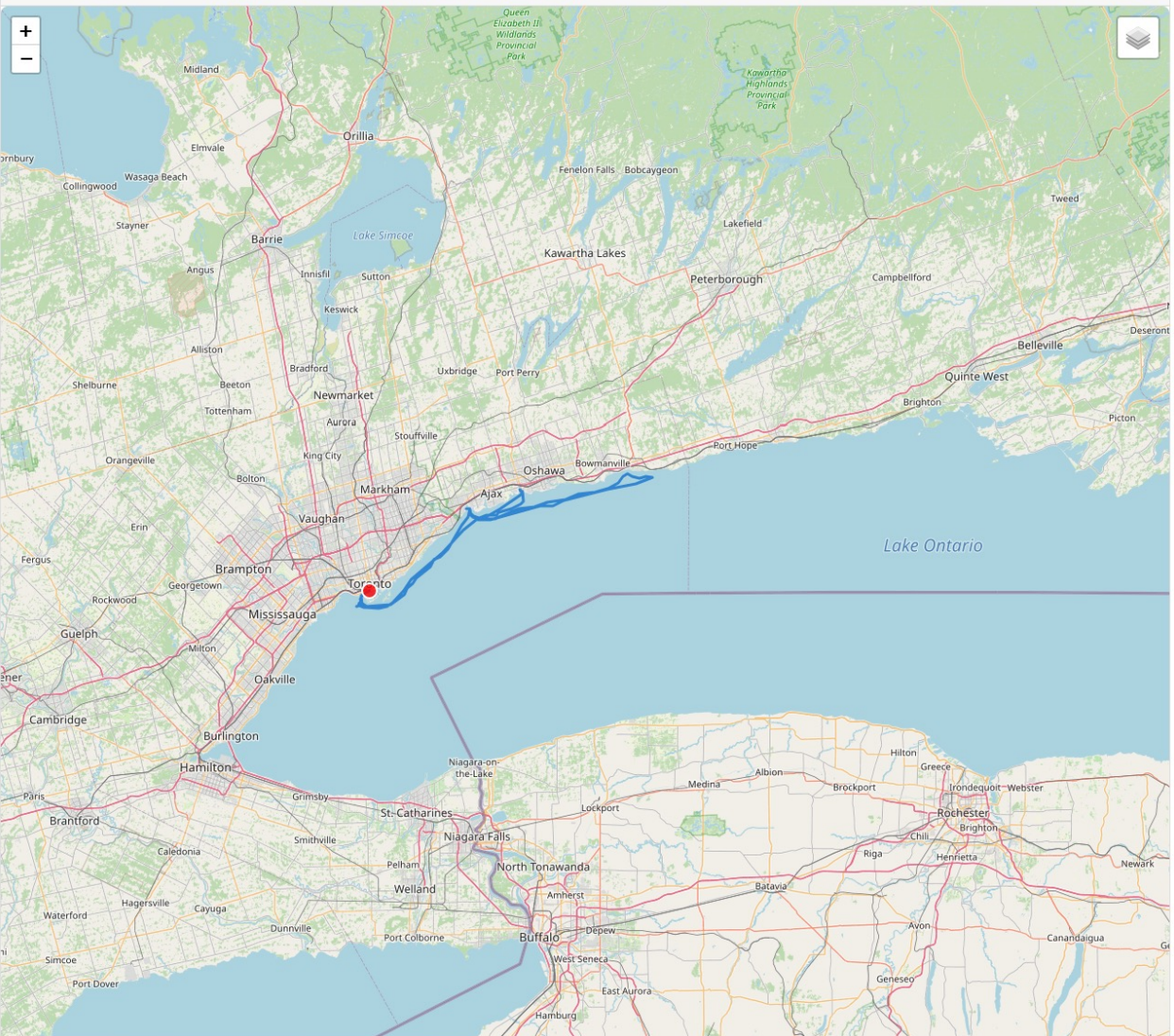
2025-09-01, 2:15:00 p.m.

10x

Time Zoom: All 1D 12H 6H 1H 30M 10M

2025-09-01 11:49 a.m. - 2025-10-27 03:36 a.m.  
(55.7 days | 1109 points)

### Position & Track



### Speed (kts)



**1.4**  
kts (SOG)  
15.0 kts (STW)  
Cruise: 5-25 kts

### GPS Quality

Sats: --  
HDOP: 0.91  
VDOP: 1.21  
H Min/Max: 0.5-0.9

Speed: 2.9 kts  
Angle: 273°

### Navigation

### Course/Heading T



196° SSW / 287°

COG HDG TWD AWA

### Wind

### Depth



2.7 m

<3.0m shallow

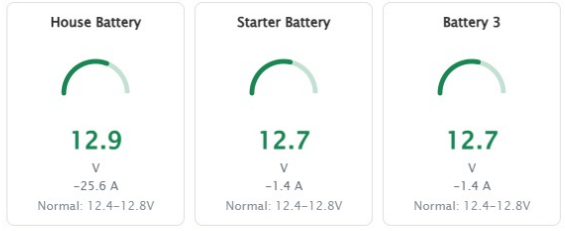
### Weather

No weather data available

### Engines

Port Engine		Starboard Engine	
<b>RPM</b>  <b>736.5</b> rpm Cruise: 2000-3500	<b>Oil Temp</b>  <b>72°</b> °C Normal: 80-110°C	<b>RPM</b>  <b>722.4</b> rpm Cruise: 2000-3500	<b>Oil Temp</b>  <b>75°</b> °C Normal: 80-110°C
<b>Oil Press</b>  <b>195 kPa</b> kPa Normal: 200-400 kPa	<b>Coolant</b>  <b>75°</b> °C Normal: 75-95°C	<b>Oil Press</b>  <b>195 kPa</b> kPa Normal: 200-400 kPa	<b>Coolant</b>  <b>75°</b> °C Normal: 75-95°C
 22°C 1670 kPa		 22°C 1669 kPa	

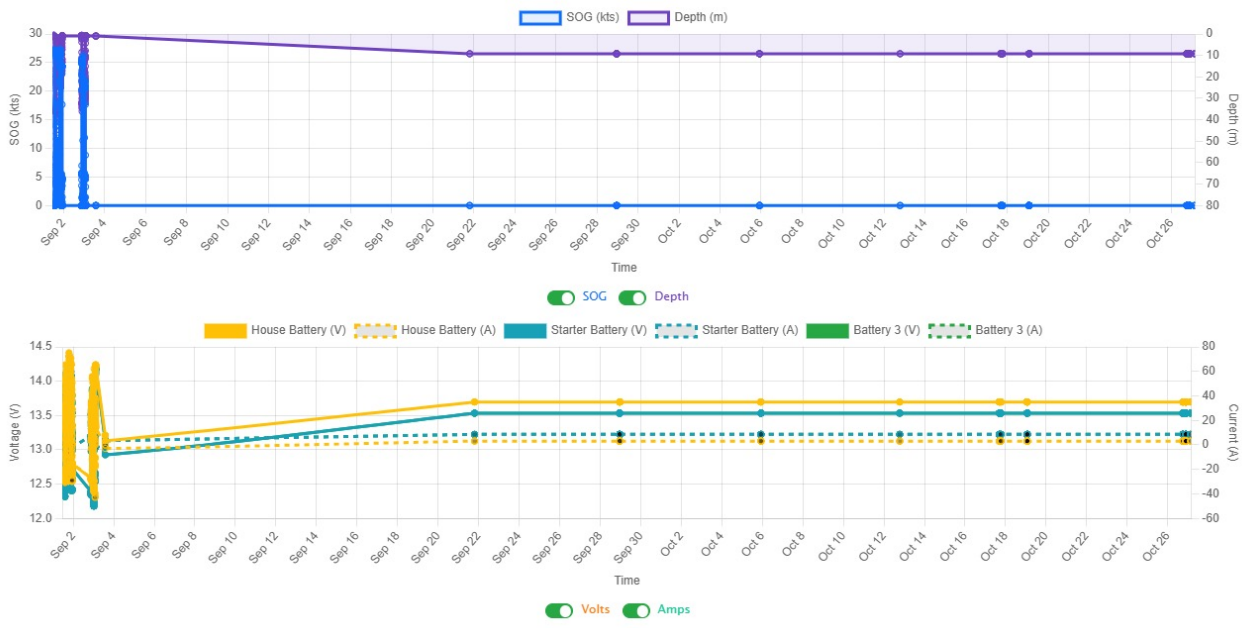
Batteries



Fluid Levels



Time Series



Toggle Y-axes below each chart



# Making your life easier



- Fleet and meta data management
- Program Contribution Statistics
- Participant Reports
- Vessel performance



OFM CSB  
Offering



OFM Admin  
App