

ArcticWeb

User Manual

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Background

ArcticWeb - an effort to improve safety of navigation in the Arctic.

ArcticWeb is combining:

- AIS data collected by national and commercial satellites and base stations along the coast of Greenland.
- Ice charts from Danish Meteorological Institute (DMI).
- Navigational warnings from Arctic Command and Danish Maritime Authority.
- GREENPOS and COASTAL CONTROL reporting.
- Coordinated Voyage through the sharing of routes and schedules.
- Sharing of routes and schedules with Arctic Command.
- Future functionality: Weather data from DMI, including weather forecasts for the given planned route.

The platform is intended for use by:

- Ships
- Shipping companies operating vessels in the area.
- Arctic Command
- Other shore authorities

System Requirements

Operating system

Any

Browsers:

Recommended browsers are Firefox (latest), Safari (latest) or Internet Explorer 10 (or 11). Google Chrome may be used, but some users have encountered some chart problems when using Chrome.

Other working browsers: Internet Explorer 8 and 9. The amount of data transferred over the internet connection will however be higher than with recommended browsers.

Firewalls:

All communication between the ArcticWeb web application and the DMA e-Navigation servers are performed using HTTPS protocol on port 80.

JavaScript

JavaScript must be enabled in the used browser. See if you have JavaScript enabled and how to enable it at this internet site: <http://enable-javascript.com/>

Cookies

Cookies must be allowed, at least for the domain arcticweb.e-navigation.net, core ArcticWeb functionality will otherwise not work.

See more at:

Internet Explorer: <http://windows.microsoft.com/en-us/windows-vista/block-or-allow-cookies>

Firefox: <http://support.mozilla.org/en-US/kb/enable-and-disable-cookies-website-preferences>

Chrome: <https://support.google.com/accounts/answer/61416?hl=en>

Safari: <http://support.apple.com/kb/ph5042>

Internet usage

The browser cache is utilized for caching web resources (HTML, CSS and JS files) as well as all ice chart data and other data fetched from DMA e-Navigation servers. This will lower the amount of data transferred over the internet connection. To make best use of the browser cache it is therefore recommended to:

- always use the same computer and browser for ArcticWeb.
- Not to clear the browser cache.
- Not to clear hosted application data/offline web application data in the browser.


At first login an initial download of approximately 1 MB is made (basic chart and other data). A low cost connection may be preferred for this.

After first login and provided the cache is not cleared, ArcticWeb data volumes will be approximately 100 KB per hour when logged in (primarily from the regular update of AIS targets).

Ice chart file sizes are given under the Ice Charts tab. They will typically be between 20 and 250 KB each. Please note that an ice chart is cached once downloaded by the browser and thus not fetched from the server again on next download click, unless the browser cache has been cleared

Description of functionalities

[ArcticWeb](#) [Greenland](#) [Vessels](#) [Ice](#) [Maritime Safety](#) [About](#) [Log in](#) [Request Access](#)

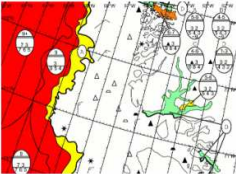


Tailored Weather Forecasts and Ice Charts
Latest ice charts from Danish Meteorological Institute. Tailored weather forecasts for uploaded sailing routes.


Welcome to ArcticWeb

ArcticWeb is an effort from the Danish Maritime Authority to improve maritime safety in the Arctic region. ArcticWeb serves as a single point of access to safety related information, provides streamlined reporting and allows for voluntary coordinated voyage through sharing of positions and planned routes. Ships in the area and their organizations may login or request access to ArcticWeb via the buttons below.


[Log In](#) [Request Access](#)



Ice Charts
The Danish Meteorological Institute, Greenland Ice Service, collects information regarding ice conditions in the waters around Greenland and



Weather
Warnings and forecasts are broadcasted by KNR (Greenland Radio) and Greenland coast radio stations. For schedules, frequencies and areas



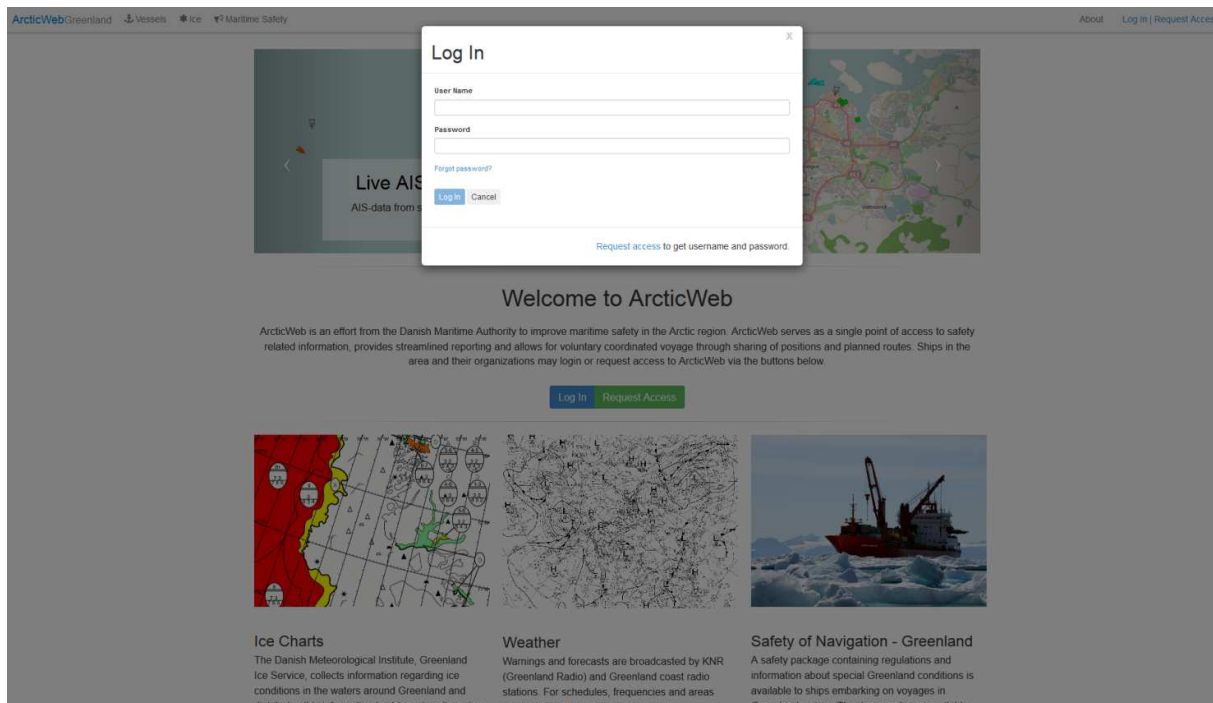
Safety of Navigation - Greenland
A safety package containing regulations and information about special Greenland conditions is available to ships embarking on voyages in

Front page

On the front page Ice Charts in pdf format, weather information and information on Safety of Navigation is available. In the future more information will be added.

Click on *Vessels* or *Log in* as user.

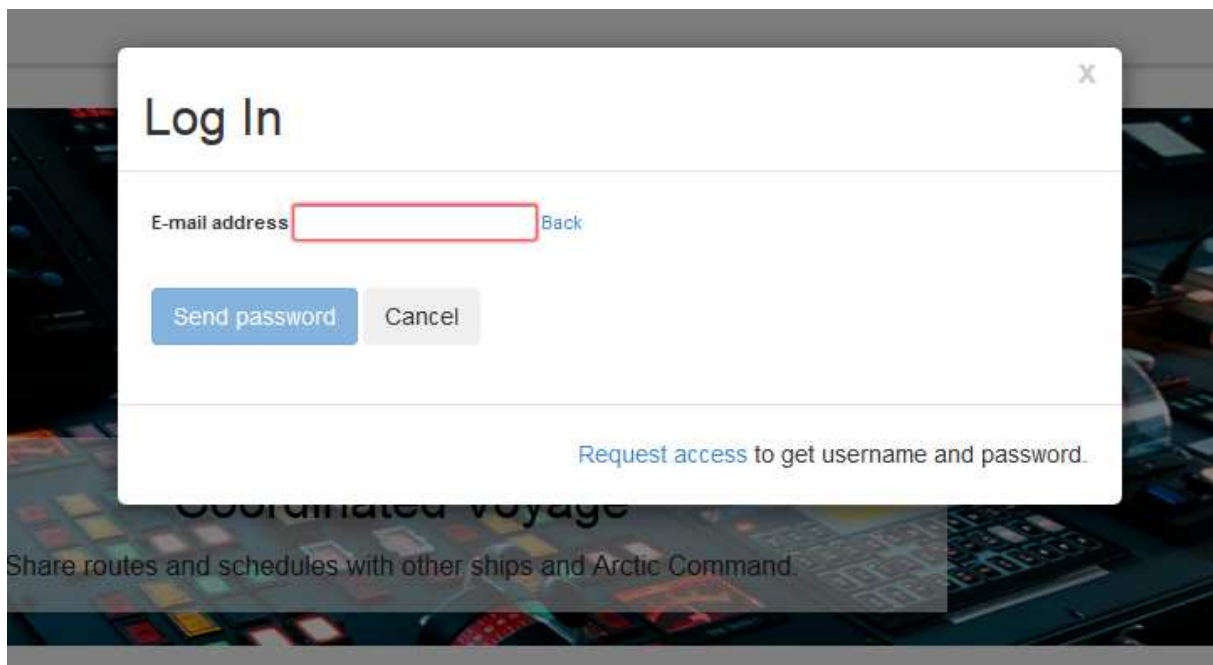
If you are not a registered user, you may request access by clicking *Request Access* (only first visit on page). You will be prompted for required information to create an ArcticWeb user. When a user has been created, you will receive an email with your new user credentials.



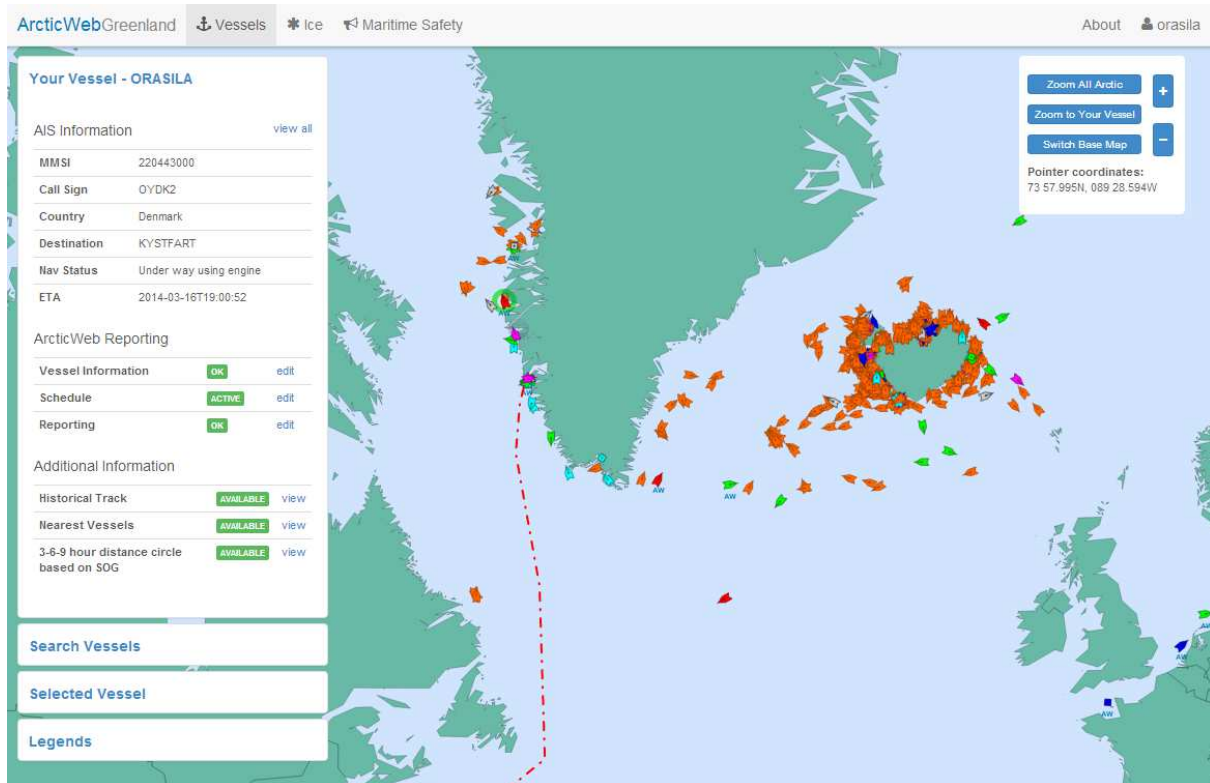
Log In dialog

Log in with user name and password.

If you have been registered as user in ArcticWeb but forgotten your password, click *Forgot password* and enter the e-mail address you have registered. Password will then be forwarded.

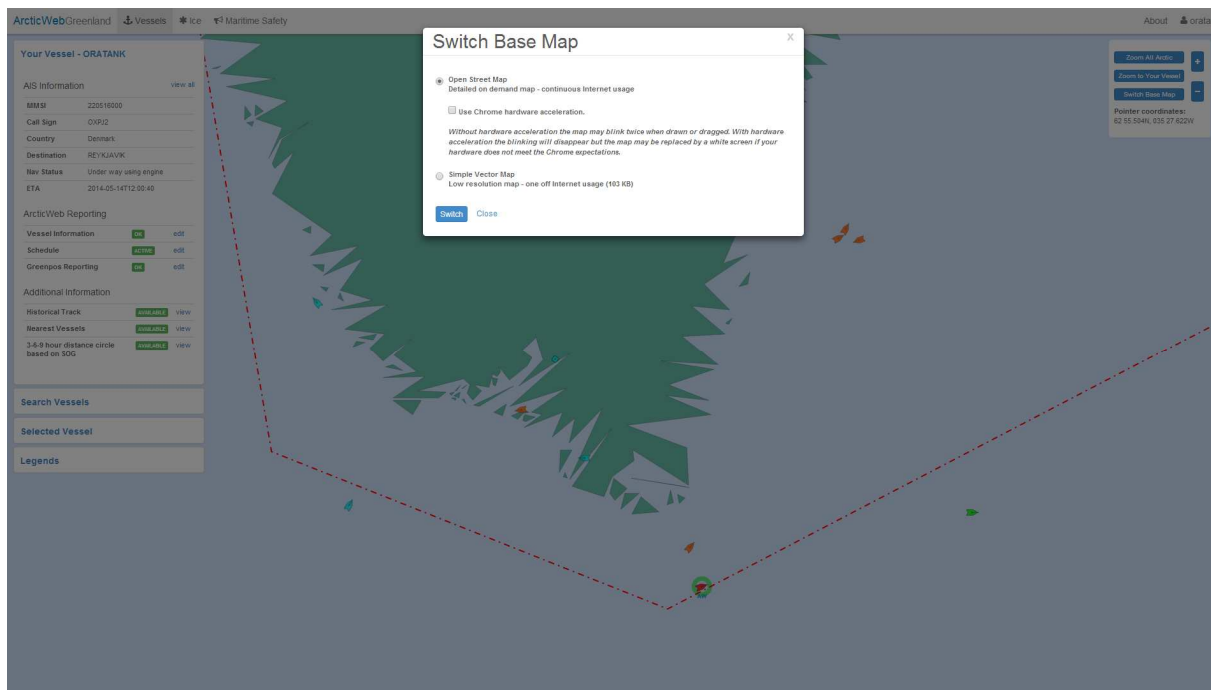


Vessels page

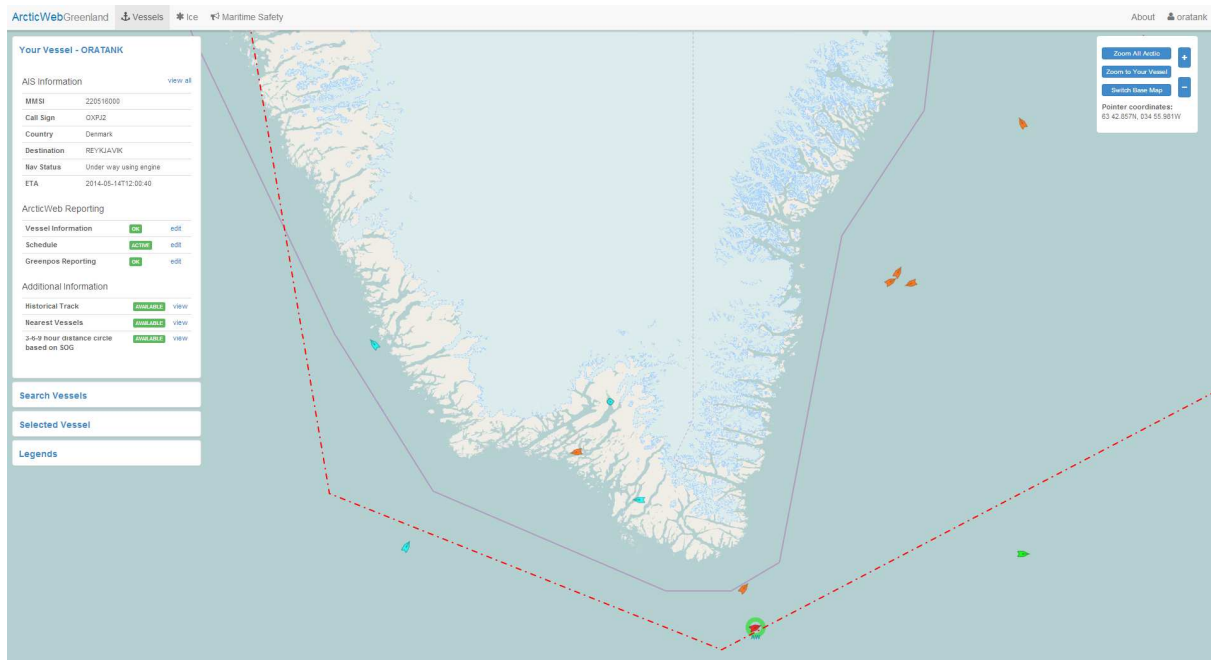


Main chart page

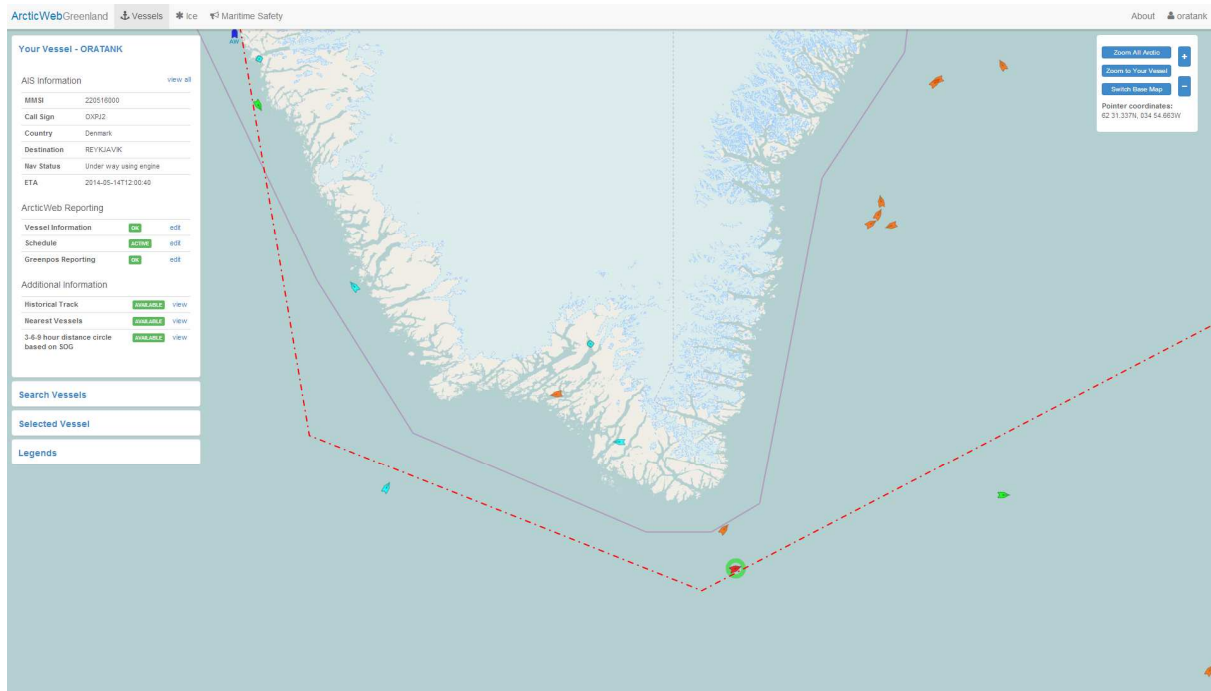
1. When logging in, user is linked to own vessels AIS target (marked by green ring). Vessel positions are updated every 15 minutes. Vessel positions obtained from satellite may however be older due to the time between satellite passings (recent analysis have shown that in 95% of the time, positions are updated at intervals less than 2 hours, in 99% of the time less than 6 hours).
2. It is possible to see positions of all other vessels in the Arctic Region equipped with an AIS transponder.
3. Click *Zoom all Arctic* to return to overview
4. Click *Zoom to Your Vessel* to zoom to own vessel



5. Click *Switch Base Map* to change from basic chart (Single Vector Map) to full OpenStreetMap. Data volumes are increased quite a bit from basic chart to the full OpenStreetMap and it may be slower to use the OpenStreetMap. If using Chrome as your browser you may turn on *Hardware acceleration* to improve performance.



Example of OpenStreetMap



Own vessel functionalities

Own vessel is marked by green ring when logged in.

The vessels page shows primarily AIS data, i.e. other vessels in the area. On the left are a number of possibilities:

Your Vessel:











- AIS Information: Basic information obtained from AIS.
- ArcticWeb Reporting:
 - Vessel Information: additional information expanding AIS information.
 - Schedule: sharing of schedule and routes with other vessels and authorities.
 - Reporting: send Greenpos reports to Arctic Command and Coastal Control to Aasiaat Radio
- Additional information:
 - Historical Track.
 - Nearest Vessels – the distance in nm and time from the 5 vessels nearest to own vessel. “Nearest” is based on the time to reach your vessel and is calculated by using the maximum recorded SOGs from other vessels in the area.
 - 3-6-9 hour distance circle based on SOG – portrayal of the distance own vessel can reach in 3-6-9 hours based on present SOG.

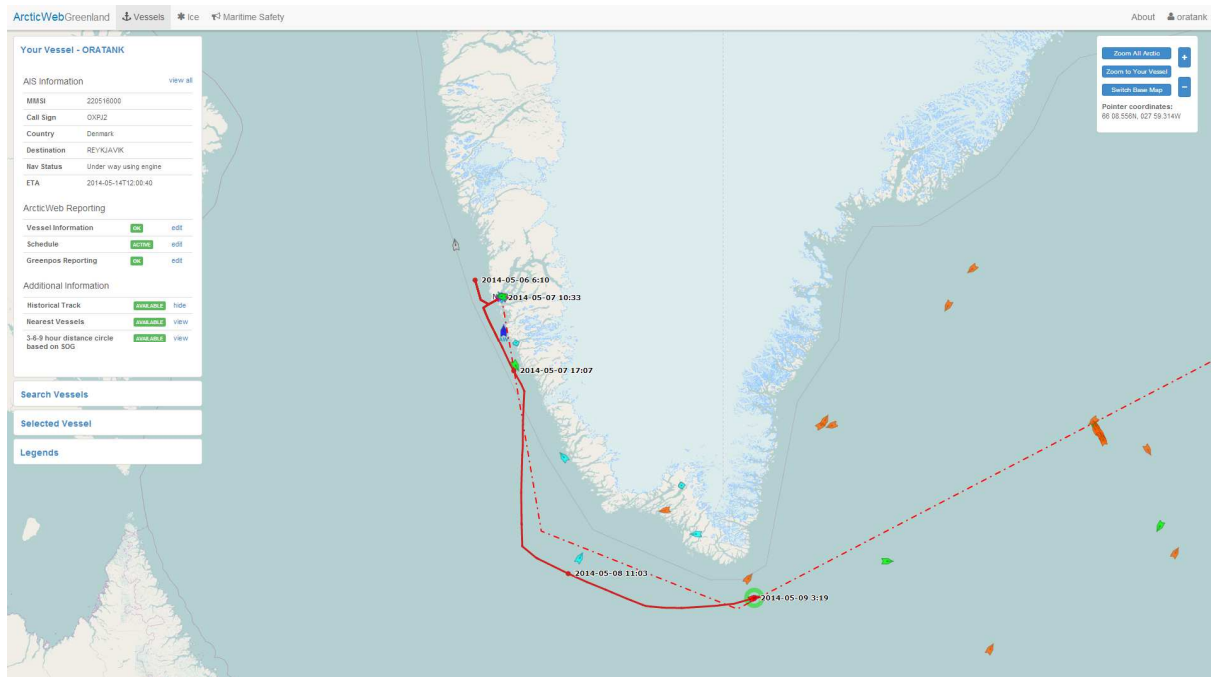
Search Vessels: search other vessels by name or MMSI.

Selected Vessel: Information on selected vessel.

Legends: Explanation of symbols and coloring (vessels, ice, etc.).

Legends

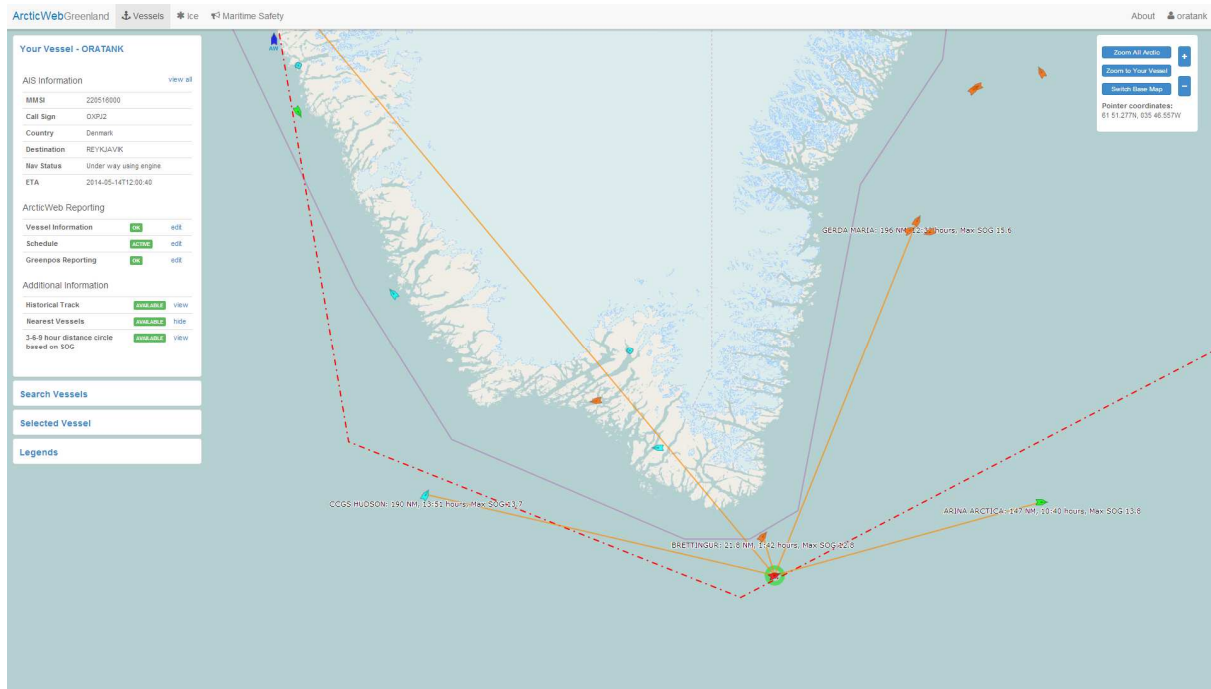
| | |
|---|-----------------------------------|
|  | Passenger |
|  | Cargo |
|  | Tanker |
|  | High speed craft and WIG |
|  | Fishing |
|  | Sailing and pleasure |
|  | Pilot, tug and others |
|  | Undefined / unknown |
|  | Sailing |
|  | Anchored/Moored |
| AW | Vessel participating in ArcticWeb |



Historical Track – own vessel

By clicking the *view* button on *Historical Track* the past track of the vessel is displayed. Positions are obtained from satellite and are updated every 1-6 hours, so the track may look a little bumpy and may cross over land.

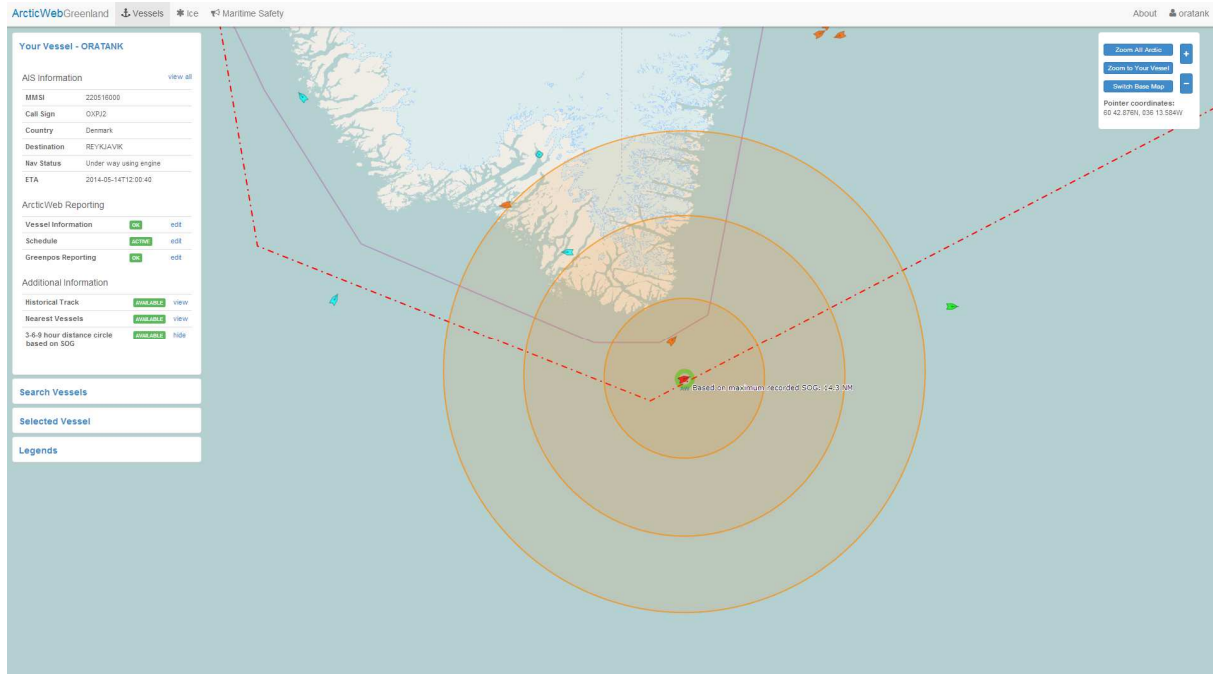
Click the *Hide* button on *Historical Track* to hide past track.



Nearest Vessels

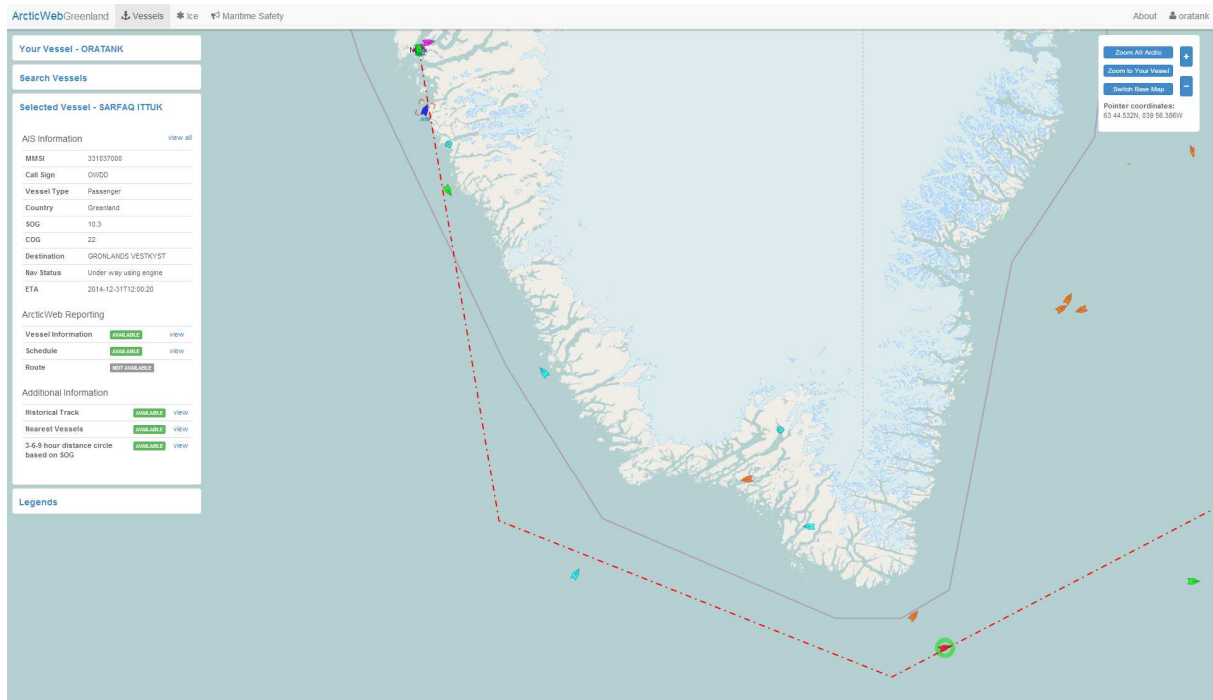
By clicking *Nearest Vessels view* the distance in nm and time from the 5 vessels nearest to your own vessel are displayed. “Nearest” is based on the time to reach your vessel and calculated by using the maximum recorded SOGs from other vessels in the area. Click the *Hide* button on *Nearest Vessels* to hide lines.

In later versions it will be possible to search and see distance to nearest vessel with medical personnel on board, distance to hospitals, helicopters, etc.



1.1.9. hour distance circle based on SOG

By clicking *3-6-9 hour distance circle based on SOG* view the distances own vessel can reach in 3-6-9 hours based on the maximum recorded SOG are displayed.
Click the *Hide* button on *3-6-9 hour distance circles* to hide circles.

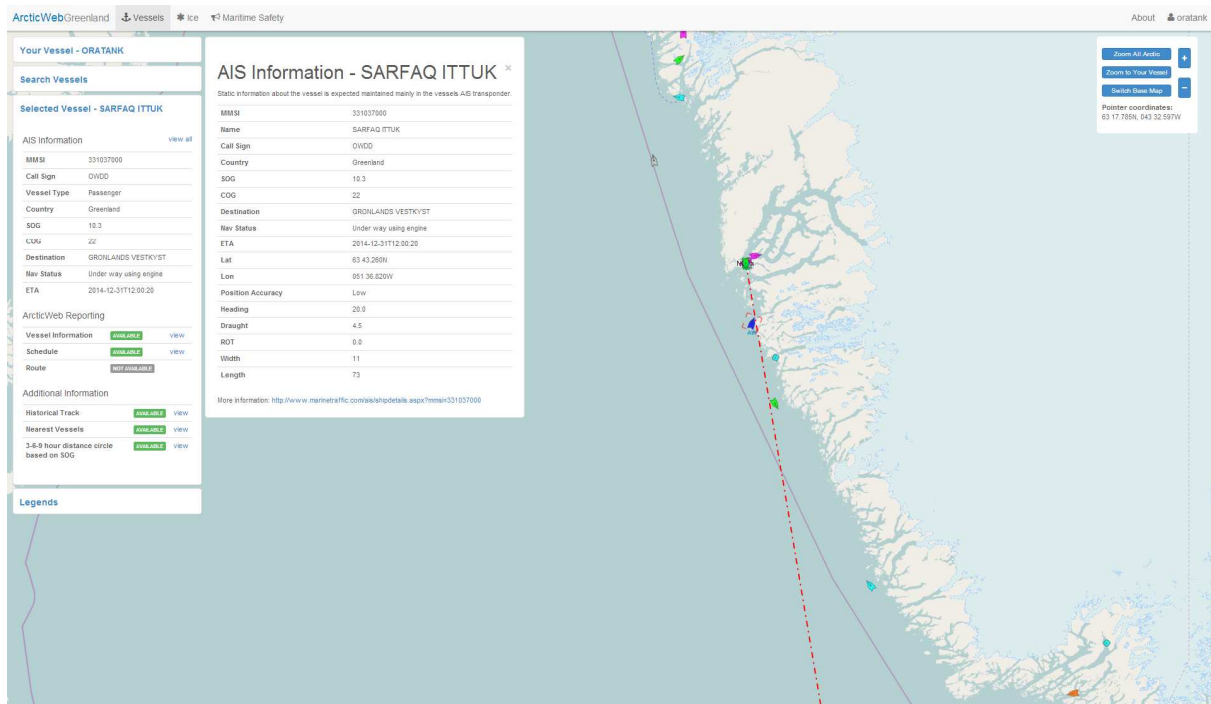


Selected Vessel

By clicking *Selected Vessel*, information on selected vessel is shown.

Vessel is selected by click on target in chart area or searching vessel by name or MMSI in Search Vessels menu.

Selected vessel is marked on chart by red brackets.



AIS Information – view all information

By clicking *view all* in Your Vessel or Selected Vessel menu it is possible to see all available information on your/selected vessel.

www.marinetraffic.com/ais/details/ships/331037000

MarineTraffic [Live Map](#) [Vessels](#) [Ports](#) [Photos](#) [Participate](#) [Services](#) [VesselPort](#) [Members](#)

Nor-Safe Sikkerhedsstiger

[nor-safe.com](#)
Red liv med Nor-Safe. Se mere her: Nor-Safe sikkerhedsstige til havne.

62071 ships live now
450905 vessels in database
1559415 photographs uploaded

SARFAQ ITTUK
Passenger [Add to My Fleet](#)

IMO: 8913899
MMSI: 331037000
Call Sign: OXWDD
Flag: Greenland
Type: Passengers Ship

Gross Tonnage: 2118
Deadweight: 163
Length x Breadth: 73m x 11m
Year Built: 1992
Status: Active

Last Position Received

Out of range
Newer position available via Satellite

Info Received: 2014-05-06 12:03
Area: Atlantic North
Latitude / Longitude: 63.99067 / -51.87517
Speed/Course: 12.5kn / 172°
Last Known Port: NUUK [GL] (2014-05-06 11:07:50)
Previous Port: SISMIUT [GL] (2014-05-05 13:03:00)
AIS Source: 1236
Itinerary History
Latest Positions

Voyage Related Info (Last Received)

| | |
|--------------------------------|----------------------|
| Draught | 4.5m |
| Destination | GRONLANDS VESTKYST |
| ETA | 2014-12-31 12:00 UTC |
| Speed recorded (Max / Average) | 11.6 / 10.9 knots |
| Info Received | 2014-05-06 11:16 |

Recent Port Calls

Local Times | UTC Times

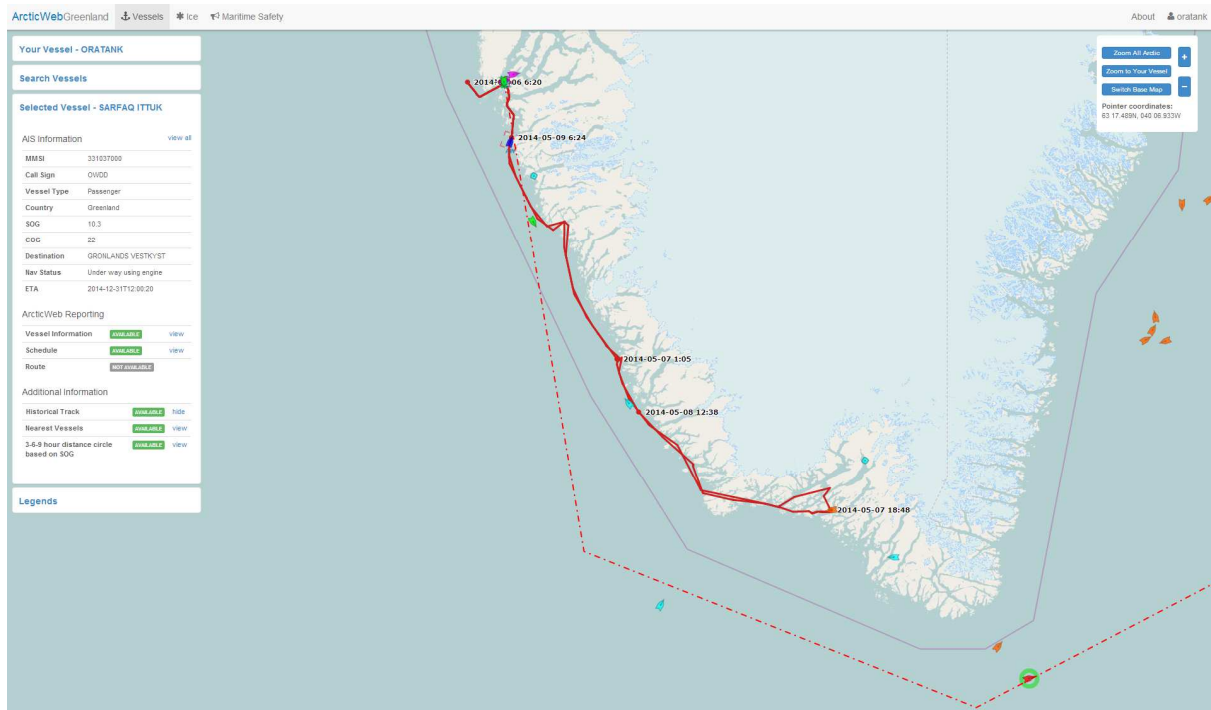
| Port | Arrival (LT) | Departure (LT) |
|----------------------|------------------|------------------|
| NUUK [GL] (UTC-2) | | 2014-05-06 09:09 |
| NUUK [GL] (UTC-2) | 2014-05-06 06:19 | |
| SISMIUT [GL] (UTC-2) | | 2014-05-03 21:04 |

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MarineTraffic.com

Hvorfor?
Hvorfor har hundrede-businde danske en gratis hjemmeside?
De bruger den til:
Hobby-firma
Brugemarked
Online CV
Egen blog
Prøv det selv
[Klik her](#)
177gemmetop.dk

Integration with MarineTraffic.com

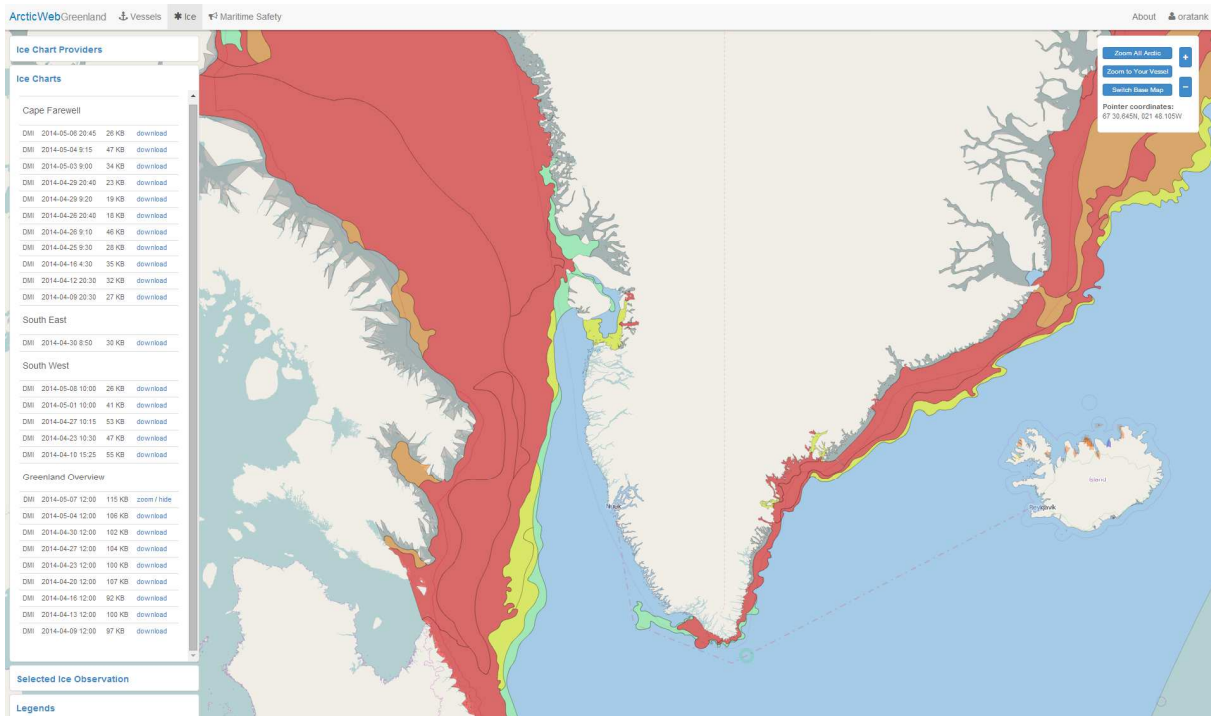
In the bottom of the View All window it is possible to search vessel at MarineTraffic.com, see pictures and other available data.



Historical Track – other vessels

By clicking *view* button on *Historical Track* in Selected Vessel menu it is possible to see other vessels past track.

Ice charts



Ice Charts

By clicking the *Ice* tab in the top menu, the Ice charts window is opened on the left. Here it is possible to first choose Ice Chart Provider

Ice Chart Providers

- ☒ Danish Meteorological Institute DMI
- ☐ Arctic and Antarctic Research Institute AARI

and then the Ice chart to display

ArcticWebGreenland [Vessels](#) [Ice](#) [Maritime Safety](#)

Ice Chart Providers

Ice Charts

Cape Farewell

| | | | |
|-----|------------------|-------|--------------------------|
| DMI | 2014-05-06 20:45 | 26 KB | download |
| DMI | 2014-05-04 9:15 | 47 KB | download |
| DMI | 2014-05-03 9:00 | 34 KB | download |
| DMI | 2014-04-29 20:40 | 23 KB | download |
| DMI | 2014-04-29 9:20 | 19 KB | download |
| DMI | 2014-04-26 20:40 | 18 KB | download |
| DMI | 2014-04-26 9:10 | 46 KB | download |
| DMI | 2014-04-25 9:30 | 28 KB | download |
| DMI | 2014-04-16 4:30 | 35 KB | download |
| DMI | 2014-04-12 20:30 | 32 KB | download |
| DMI | 2014-04-09 20:30 | 27 KB | download |

South East

| | | | |
|-----|-----------------|-------|--------------------------|
| DMI | 2014-04-30 8:50 | 30 KB | download |
|-----|-----------------|-------|--------------------------|

South West

| | | | |
|-----|------------------|-------|--------------------------|
| DMI | 2014-05-08 10:00 | 26 KB | download |
| DMI | 2014-05-01 10:00 | 41 KB | download |
| DMI | 2014-04-27 10:15 | 53 KB | download |
| DMI | 2014-04-23 10:30 | 47 KB | download |
| DMI | 2014-04-10 15:25 | 55 KB | download |







Greenland Overview

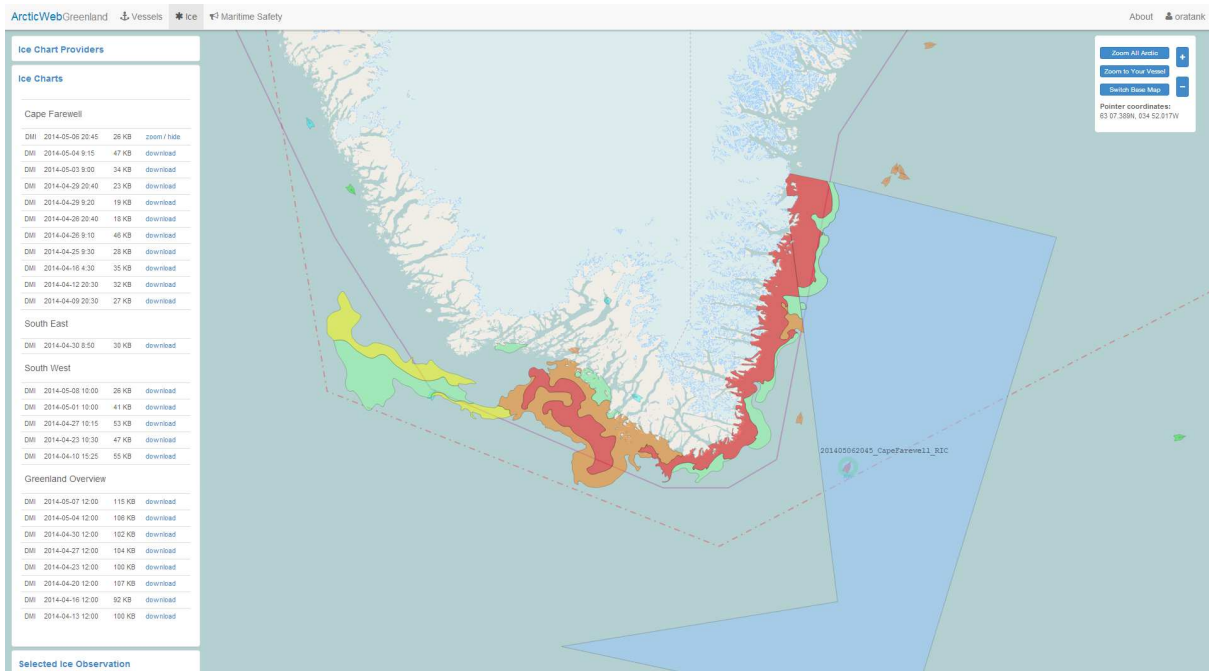
| | | | |
|-----|------------------|--------|--------------------------|
| DMI | 2014-05-07 12:00 | 115 KB | download |
| DMI | 2014-05-04 12:00 | 106 KB | download |
| DMI | 2014-04-30 12:00 | 102 KB | download |

All available Ice Charts are listed, sorted by area; most recent Ice Chart first.

Ice chart legends are shown in the legends menu.

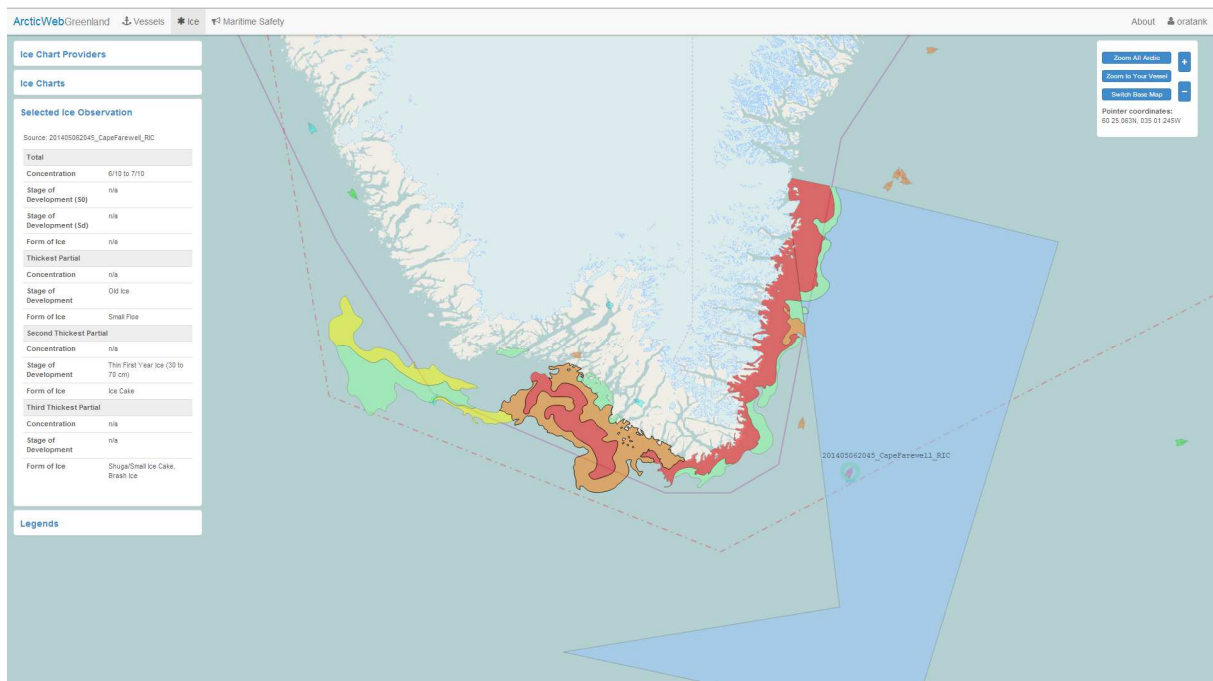
Legends

| Color | Ice Concentration | Definition |
|---|-------------------|----------------------|
|  | 10/10 | Fast Ice |
|  | 9/10-10/10 | Very Close Drift Ice |
|  | 7/10-8/10 | Close Drift Ice |
|  | 4/10-6/10 | Open Drift Ice |
|  | 1/10-3/10 | Very Open Drift Ice |
|  | <1/10 | Open Water |



Ice charts – display

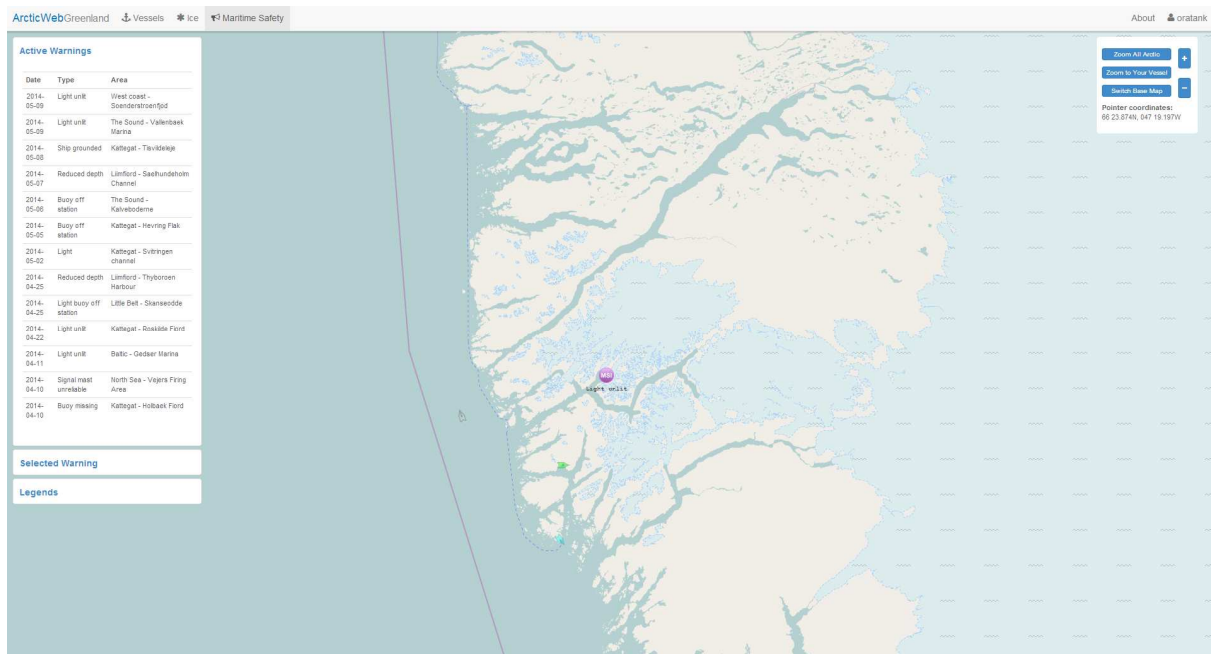
Ice Charts are downloaded by clicking *download*. File sizes are indicated to make it possible for the user to choose whether or not to download Ice chart and thereby minimize vessels data usage. Once downloaded an ice chart is cached by the browser and thus not fetched from the server again on next download click, unless the browser cache has been cleared. When Ice chart has been downloaded, the *download* button changes to *zoom*. Click *zoom* to zoom to Ice area. Click *hide* to hide Ice Chart.



Ice charts – details

Details for Ice areas are shown in the left menu by clicking colored Ice areas on chart.

Maritime Safety Information

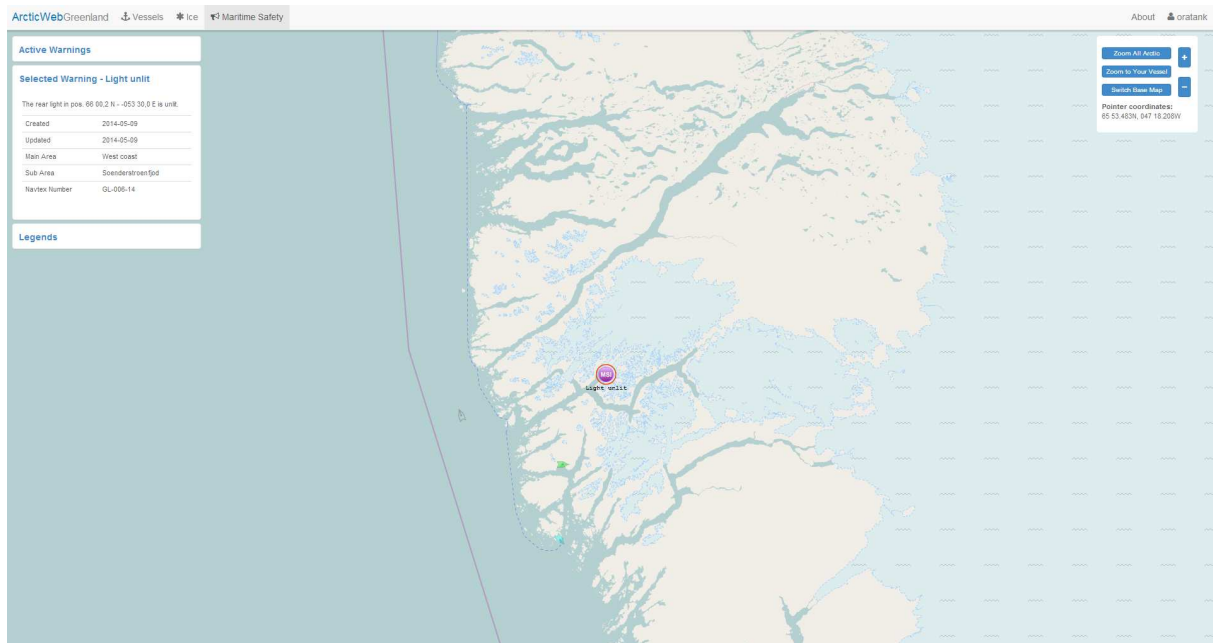


Maritime Safety Information - main page

By clicking the *Maritime Safety* tab in the top menu, the Maritime Safety Information window is opened on the left.

Here all active Navigational Warnings are listed, sorted by number.

All Maritime Safety Information for the area is displayed by purple MSI symbols.



Maritime Safety Information - details

By clicking MSI symbol in the chart area or under the Active Warnings in left menu, details are shown.

Reporting

The GREENPOS system applies to all ships on voyages to and from Greenlandic Waters and inside the Greenlandic Continental Shelf or EEZ. The ships are to report weather information and their position, course and speed every 6 hours.

The COASTAL CONTROL system applies to all ships greater than 20 BT on voyage to and from Greenland ports and places of call. The ships are to report their position, course, speed and persons on board at least every 24th hour.

Additional information may be required depending on the report type send. See 'Mandatory Ship Reporting Systems' document found on front page for report types and when to send them.

The screenshot displays the ArcticWeb reporting interface. On the left, a sidebar shows 'Your Vessel - ORATANK' with AIS information (MMSI: 22016000, Call Sign: OXFD2, Country: Denmark, Destination: REYKJAVIK, Nav Status: Under way using engine, ETA: 2014-05-14T12:00:33) and ArcticWeb Reporting status (Vessel Information: on, Schedule: active, Greenpos Reporting: on). Below this are links for 'Search Vessels', 'Selected Vessel', and 'Legends'. The main area features a 'Ship Report' form. The 'Report recipients' section has checkboxes for 'Coastal Control' (checked) and 'Greenpos' (checked). The 'Report Type' is set to 'Sailing Plan Report'. The 'Destination' is 'Nauak'. The 'Estimated Time of Arrival (UTC)' is '2014-05-12 08:00'. The 'Persons on Board' is '12'. The 'Course' is '045', 'Speed' is '11', 'Latitude' is '60 00.000N', and 'Longitude' is '041 00.000W'. The 'Route Description' is 'From Reykjavik to Nauak'. The 'Weather' section shows 'Wind 14NE, 20 knots', 'Wave 1.5M, 3 metres', and 'Visibility good'. The 'Ice Observations' field is 'No ice observed'. At the bottom of the form are 'Reset' and 'Send' buttons. The background is a map of the North Atlantic with a red dashed line indicating a route.

Reporting

Click *edit* button under *Reporting* in the left menu. Here it is possible to enter and send reports to Arctic Command (Greenpos) and/or Aasiaat Radio (Coastal Control) by a few clicks.

First choose where to send the report; Greenpos and/or Coastal Control, then which report to send; Sailing Plan, Position Report, Final Report or Deviation Report. Fill in the blank fields. Other required information is filled in automatically based on information from AIS (Remember to keep AIS data up to date). Click *Send*.

Acknowledgement of successful transmission is indicated and a copy of report is send to your ArcticWeb e-mail address. An acknowledgement mail is also sent from ArcticCommand mail server to your ArcticWeb e-mail address upon report reception.

Note: In the event a transmission acknowledgement e-mail is not received from ArcticCommand you must use other means of communication in accordance with the relevant rules.

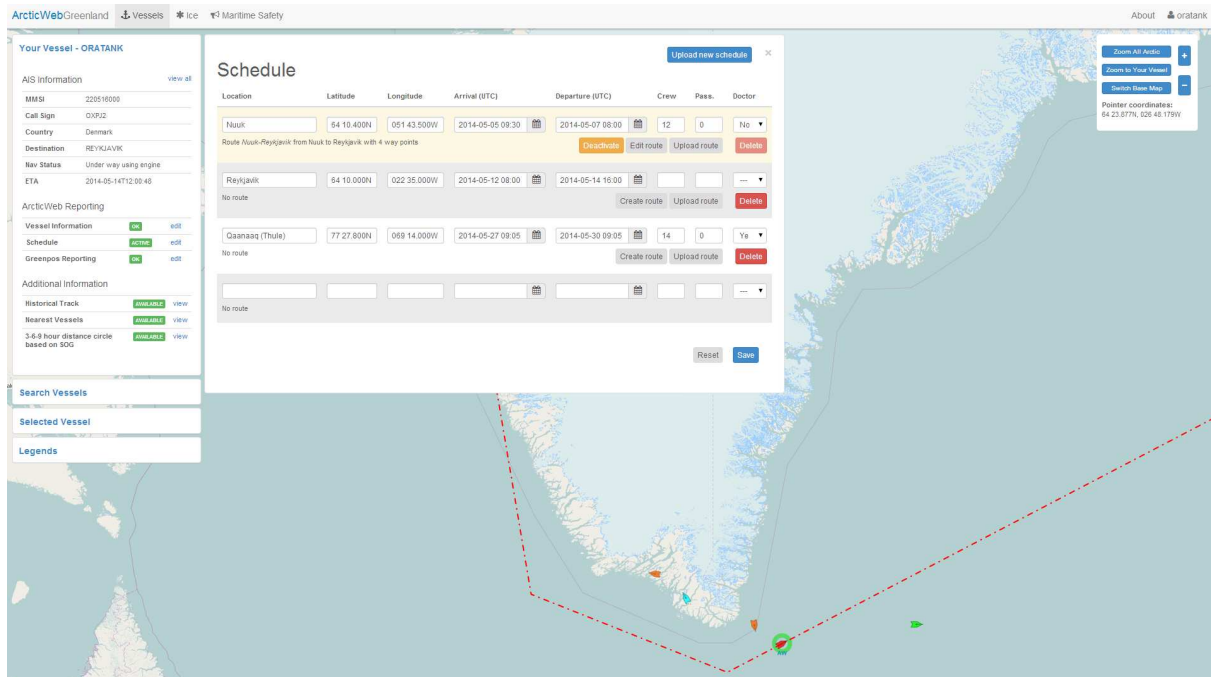
The screenshot displays the ArcticWeb interface for vessel management. The top navigation bar includes 'ArcticWebGreenland', 'Vessels', 'Ice', and 'Maritime Safety'. The main content area is divided into three sections:

- Your Vessel - ORATANK**: A sidebar containing AIS Information (MMSI: 220516000, Call Sign: OYR12, Country: Denmark, Destination: REYNJAUVIK, Max Status: Under way using engine, ETA: 2014-05-14T12:00:48), ArcticWeb Reporting (Vessel Information, Schedule, Greenpeace Reporting), and Additional Information (Historical Track, Nearest Vessels, 3-6-9 hour distance circle based on SOG).
- Vessel Information**: A central form for updating vessel details. It includes a success message 'vessel information successfully submitted' and fields for MMSI (220516000), Gross Tonnage (3591), Max Speed (13.4), Estimated Rescue Capacity (150), Ice Class (A1), and Helped (No). A 'Communication Capabilities' field is set to 'Inmarsat, Widium, HF and VHF'. 'Reset' and 'Save' buttons are at the bottom right.
- Map**: A map of the Arctic region showing the vessel's location with a green circle and a red dashed line indicating a distance circle.

On the right side of the map, there are buttons for 'Zoom All Fields', 'Zoom to Your Vessel', and 'Switch Base Map', along with a 'Position coordinates' box showing 66.26.842N, 025.18.530W.

Vessel Information

All information available via AIS is collected automatically in the AIS Information window. Additional information relevant in the Arctic area, for Search and Rescue and assistance is given and shared in the Vessel Information window, e.g. Ice class, maximum speed, Maximum Rescue capacity, vessel equipped with Helipad, communication capabilities, etc.



Schedule

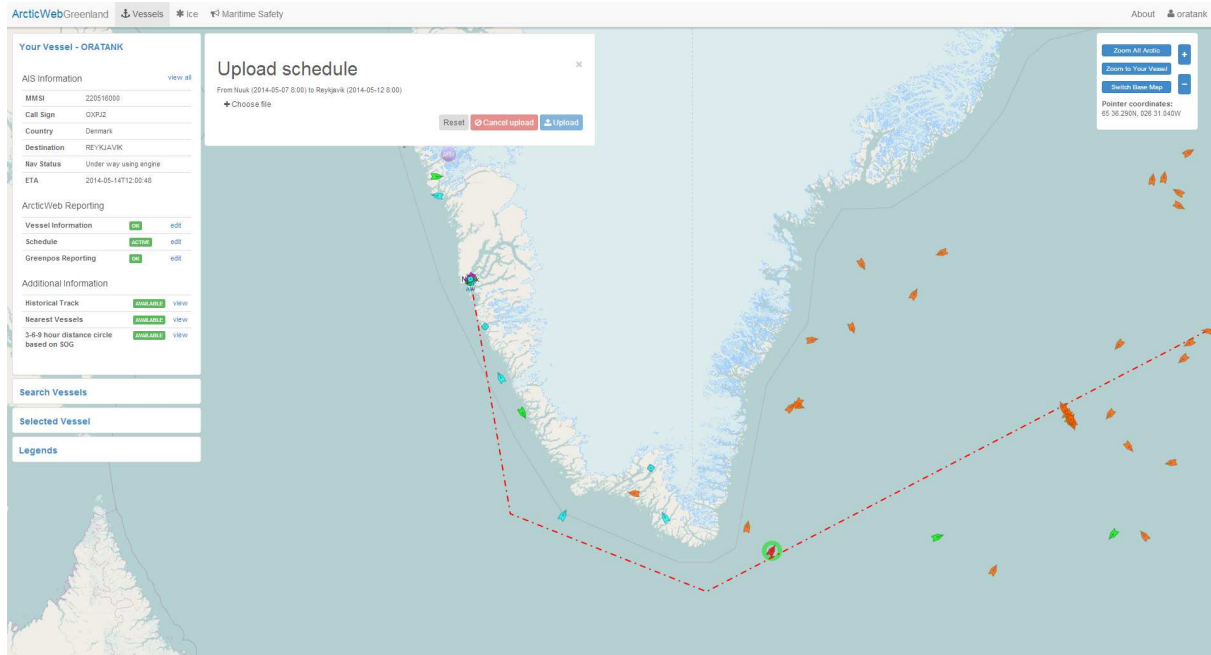
Vessels schedule is entered, uploaded and kept up to date in the Schedule menu.

Enter location, position (filled in automatically for ports in Greenland), arrival and departure times, crew and passengers on board at departure and if doctor or medical personnel is onboard.

Positions are entered in following format: DD MM.MMMN ; DDD MM.MMMW

Detailed routes between a location and the following location may be either uploaded by clicking *Upload route* or created manually in the system by clicking *Create route*.

Schedules and routes are shared with other vessels and authorities enabling coordinated passage and for resource planning, e.g. rescue resources.



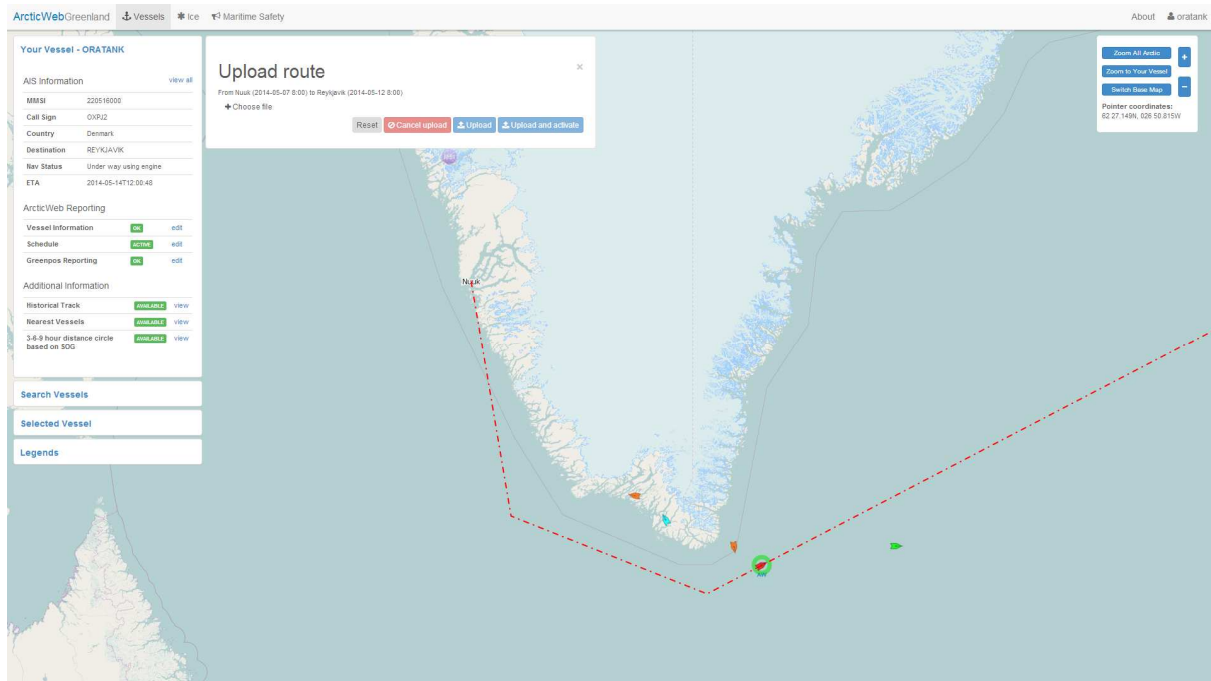
Upload Schedule

| Site | Arrival | Departure | Crew | Passengers | Doctor | Id |
|----------------|------------------|------------------|------|------------|--------|--------------|
| Bergen | 19-09-2014 13:00 | 19-09-2014 17:00 | 12 | 45 | TRUE | |
| Farsund | 20-09-2014 09:00 | 20-09-2014 13:00 | 20 | 112 | FALSE | OOU-DNK-0001 |
| Nuuk (Godthåb) | 20-09-2014 15:00 | 20-09-2014 18:00 | 11 | 54 | | |
| Nanortalik | 21-09-2014 09:00 | 21-09-2014 14:00 | 3 | 2 | | OOU-DNK-0002 |

It is possible to upload schedule from an Excel sheet in following format:

Certain restrictions and comments regarding this format:

- As of now, only the “old” Excel format (.xls) is supported. The “new” format (.xlsx) may be supported in a future version.
- The columns “Site”, “Arrival” and “Departure” (and their corresponding headers) are mandatory. The columns “Crew”, “Passengers”, “Doctor” and “Id” may be omitted. The case (upper, lower) is irrelevant, and so is the order of the columns.
- The system will try to locate the coordinates of the sites automatically. If this is not possible, you are required to enter them manually or choose another site.
- All times are in UTC, in the format shown above (dd-mm-yyyy hh:mm).
- If an Id value is not present, the system will automatically generate one. The advantage of using your own Ids is that if you upload a new schedule containing lines with the same Ids, those lines will replace the existing ones in the system. This is convenient for making batch schedule adjustments.
- “New” lines (i.e. without Ids) will be required to have an arrival (and departure) date no earlier than the latest departure date in the current schedule.
- When uploading a schedule, the data from the Excel sheet is not saved until you explicitly press the “Save” button, so you will be able to review it and make adjustments.



Upload Route

Routes may be uploaded to ArcticWeb and used by own vessel, e.g. when assessing Maritime Safety Information and when navigating in ice. At the same time routes in ArcticWeb are shared with other ships and authorities for planning and improved situation awareness. Routes may be exported from ships ECDIS systems on a USB-stick.

The following ECDIS systems are currently known to be supported:

- Transas Navi-Sailor 4000
- Transas Navi-Sailor 4000 MDF
- Sperry Marine “VisionMaster FT”

Support for the following ECDIS systems are to be added in the near future:

- FURUNO FEA 2107
- SAM ChartPilot 1100

Note: If ECDIS system on board is not supported by ArcticWeb, then please let us know (Mads Bentzen Billesø, Danish Maritime Authority, mcb@dma.dk).

Route

Name: Kangaamiut-Sisimiut

Origin: Nuuk

Destination: Thule

Estimated time of Departure (UTC): 2014-04-19 09:00

| Name | Latitude | Longitude | Turn radius (nm) | Heading | Speed (kn) | | |
|--------|------------|-------------|------------------|--------------|------------------|--------|-----------|
| WP_001 | 65 47.994N | 053 18.911W | 0 | Rhumb line | 10.0168225614476 | Delete | Add below |
| WP_002 | 65 47.506N | 053 25.458W | 0.5 | Rhumb line | 10.0168225614476 | Delete | Add below |
| WP_003 | 65 53.352N | 053 34.982W | 0.5 | Rhumb line | 10.0168225614476 | Delete | Add below |
| WP_004 | 66 03.772N | 053 46.291W | 0.5 | Rhumb line | 10.0168225614476 | Delete | Add below |
| WP_005 | 66 15.800N | 053 52.839W | 0.5 | Rhumb line | 10.0168225614476 | Delete | Add below |
| WP_006 | 66 24.639N | 053 52.243W | 0.5 | Rhumb line | 10.0168225614476 | Delete | Add below |
| WP_007 | 66 36.738N | 053 45.101W | 0.5 | Rhumb line | 10.0168225614476 | Delete | Add below |
| WP_008 | 66 49.442N | 053 49.267W | 0.5 | Rhumb line | 10.0168225614476 | Delete | Add below |
| WP_009 | 66 56.220N | 053 50.458W | 0.5 | Rhumb line | 10.0168225614476 | Delete | Add below |
| WP_010 | 66 56.919N | 053 49.862W | 0.5 | Great circle | 0 | Delete | Add below |

Reset Save Save and activate

Route (edit or create)

When route is uploaded it is possible to edit Waypoints and other route details by clicking *Edit route*.

By clicking *Create route* it is possible to create and save a route in ArcticWeb. This functionality may be used if it is not possible to export route from ECDIS system and import into ArcticWeb.

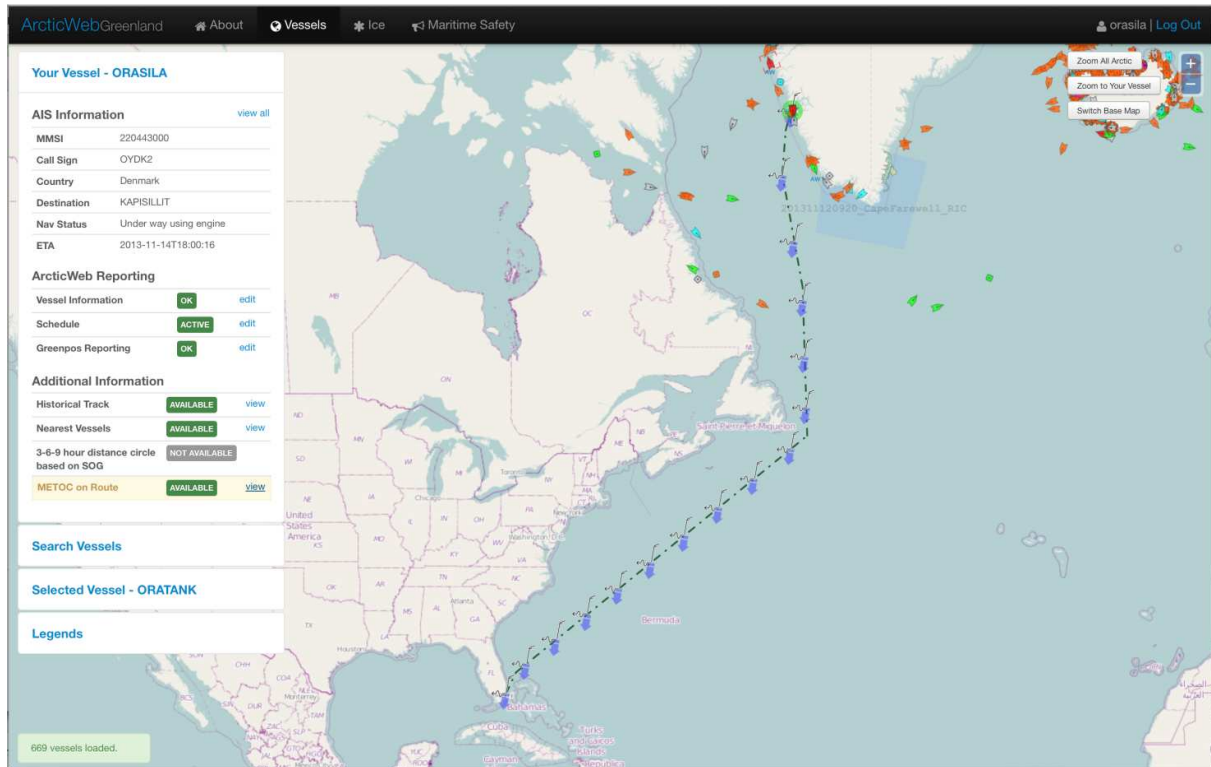
Own and other vessels routes

The active route of own vessel is shown at all times on chart page (red route). Own vessels planned routes are orange. Other vessels active routes are viewed by clicking view Route in Selected Vessels menu (green routes).

Routes are only available from vessels participating in ArcticWeb. This is indicated by the letters AW below the target symbol.

It is also possible to view other vessels schedules (black lines connecting departure and arrival ports).

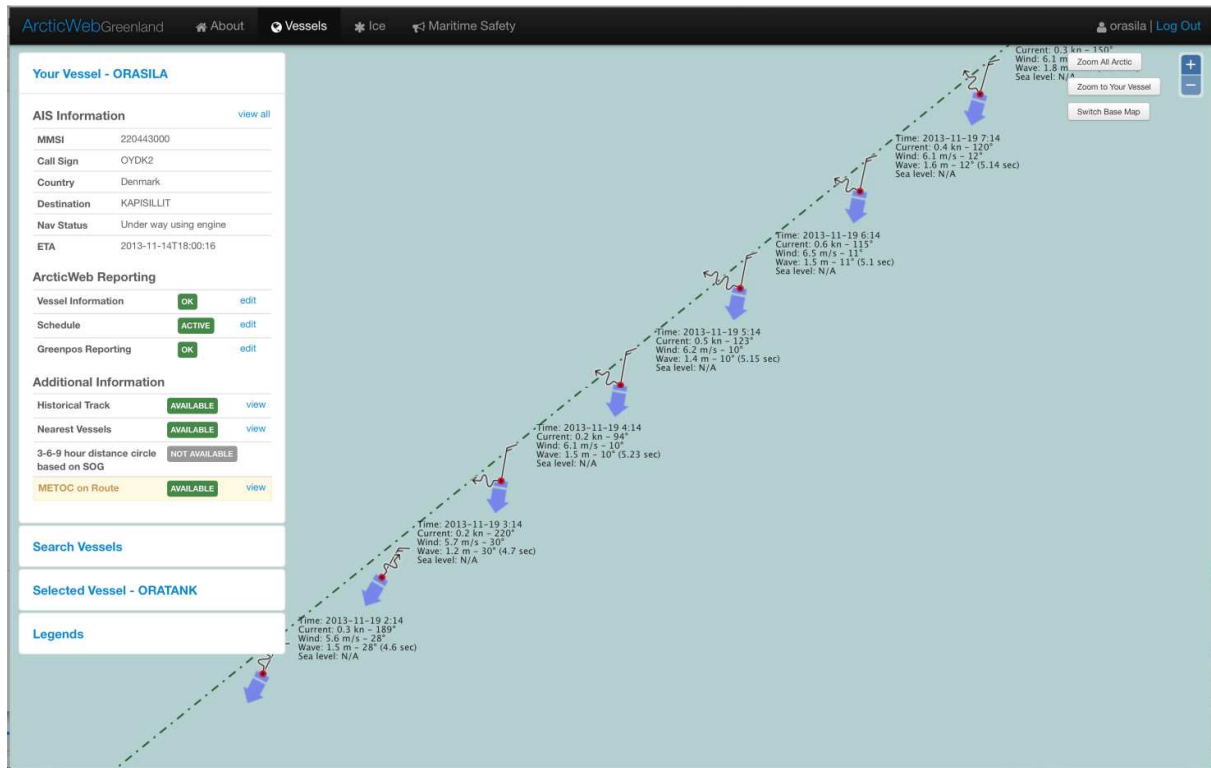
Future functionality



FUTURE FUNCTIONALITY - Weather forecast for planned route (METOC on route)

After uploading route it is possible to get METOC information/weather forecast on route.

Click *METOC on route*. Wind, waves, current and tidal level is shown along the route at planned arrival times.



FUTURE FUNCTIONALITY - Weather forecast - details

Details for specific weather points are shown when zooming in.