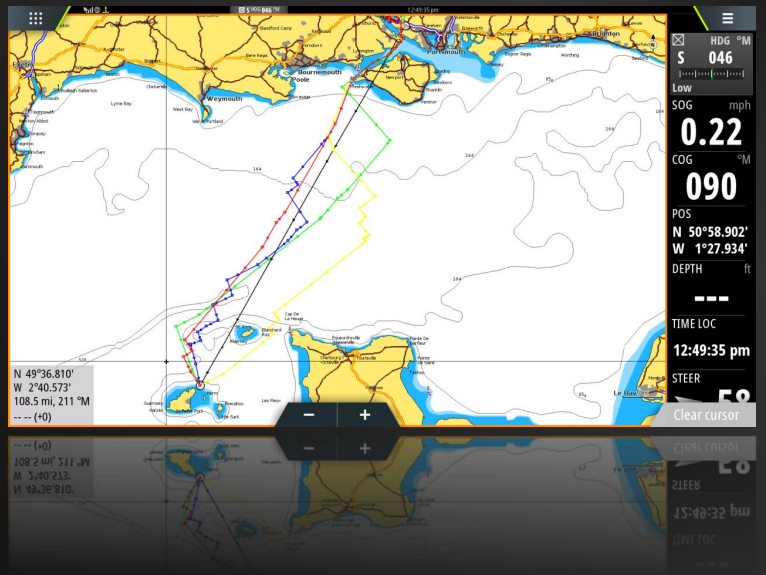
Product Brief

NOS 56

NEW SOFTWARE FOR: ZEUS², ZEUS² GH AND VULCAN



NOS56 | MFD | Chart Plotters

NOS 56 - NEW FEATURES

The latest B&G software for Zeus and Vulcan series products consists of several powerful and easy to use new features.

Weather Routing with PredictWind™

Weather Routing is an online weather routing service, powered by PredictWind™, for creating the fastest or safest route for your trip based on weather conditions.

A valid subscription level with PredictWind is required to be able to use this feature. See www.predictwind.com for more details

Navionics SonarChart Live

Create your own private charting Live on your B&G MFD when using a Navionics chart with an active update subscription.

Navionics Dock-to-Dock Autorouting

Dock-to-Dock Autorouting quickly calculates a detailed route, even through narrow passages and channels, based on chart data and navigation aids.

[Dock-to-Dock Autorouting not available in US territorial waters]

NMEA2000 Entertainment and Audio Enhancements

Enhanced compatibility with 3rd party audio providers within the standard B&G audio control. Compatible sources are automatically populated by the connected audio server. JL Audio, Infinity and Polk tested.

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DOWNLOAD INFORMATION

Download Options

Available from the relevant product download page on www.bandg.com or via direct-to-device update over Wi-Fi.

NOS 56 version numbers

- Zeus2 Glass Helm 4.5 ver 56.1.142
- Zeus2 MFD 4.5 ver 56.1.142
- Vulcan 7 3.5 ver 56.1.142
- Vulcan 5 & 7 FS 2.0 ver 56.1.142

The new Vulcan 9 product will not receive this software update, These features will be included in the next release due out later in the year

PREDICTWIND

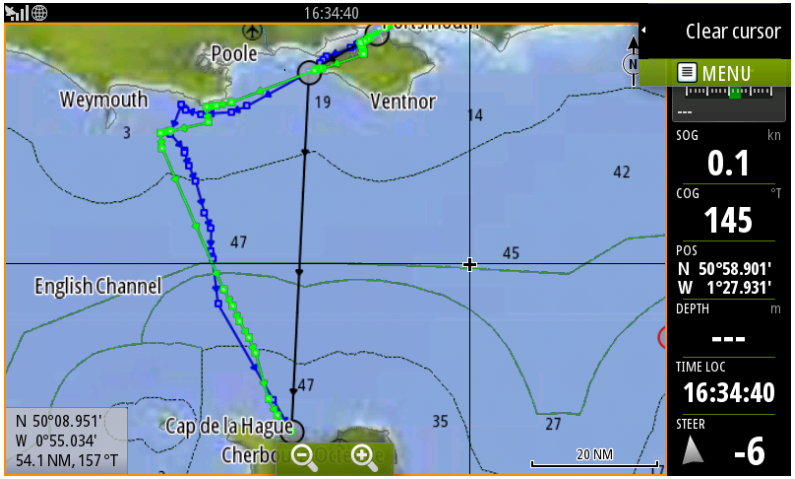
Optimum routing, direct to unit. Powered by **PredictWind™**

WEATHER ROUTING and PLANNING with PredictWind

Weather Routing by PredictWind is now available to B&G MFD and Chart Plotter users via direct Wi-Fi connection.

PredictWind weather routing and departure planning services are online weather routing tools for creating the fastest or safest route for your trip based on weather and tidal conditions.

PredictWind is a weather and tide based service with basic land avoidance features (note: not shallow water or hazard avoidance) to provide sensible weather/tide based routing, however always keep in mind that automatically calculated routes do not replace safe navigation practices and should never be your only reference.



PredictWind optimised routes, based on weather conditions and currents, live on a Zeus MFD

New PredictWind features require a subscription and a live data connection. See www.predictwind.com for pricing and account details.

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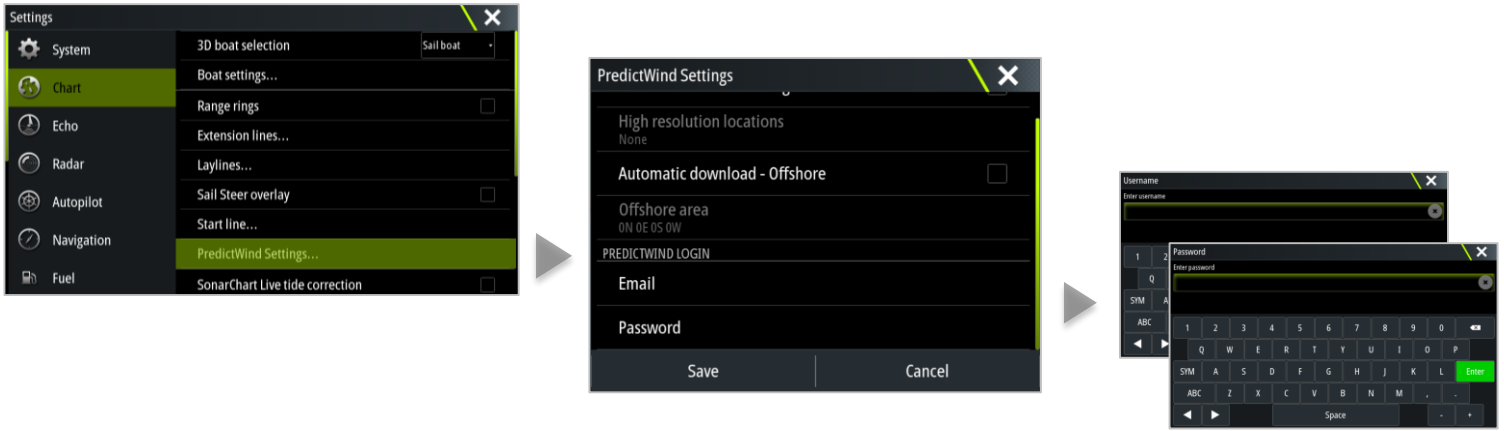
Overview of use: PredictWind

How to add your PredictWind account details

Weather Routing requires a subscription to PredictWind. See www.predictwind.com for pricing and details

Enter your PredictWind account details into the Zeus or Vulcan unit under the PredictWind settings dialogue:

SETTINGS > CHART > PredictWind Settings…



New PredictWind features require a subscription and a live data connection. See www.predictwind.com for pricing and account details.

Overview of use: PredictWind

How to use PredictWind Routing – User options

The addition of Routing to the exclusive B&G / PredictWind partnership provides 3 new features (in addition to the GRIB weather feature already available):

1) **Weather Routing**. Provides optimum routes based on your yacht's performance, weather forecasts (multiple models) and tide/current data based on user settings for start time, motoring options and more
2) **Departure Planning**. What is the best time to depart on your next coastal or offshore passage? You will be spanning different weather and tide/current patterns… this powerful tool will quickly summarise the wind conditions you will encounter at different start times. Departure Planning enables each route to be calculated at 1, 3, 6, 12 or 24 hour start time intervals.
3) **Destination Forecast**. View the PredictWind weather forecast data at your destination.

New PredictWind features require a subscription and a live data connection. See www.predictwind.com for pricing and account details.

Overview of use: PredictWind

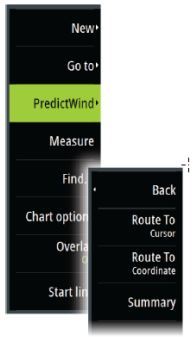
How to use Routing – weather routing can be accessed in three ways:

1) via chart screen menu (Menu > PredictWind from Chart panel):
   a. To optimise the route to the cursor
   b. To optimise the route to a fixed lat/long co-ordinate

2) via the Route dialog (Home > Routes [select a route])
   a. To optimise an existing route for expected weather conditions

3) via the Waypoint dialog (Home > Waypoints [select a waypoint])
   a. To optimise a route to a waypoint for expected weather conditions

Each of these options display the PredictWind Routing dialog to select relevant options for your route



Quick Access to routing options

via Routes dialogue

New PredictWind features require a subscription and a live data connection. See www.predictwind.com for pricing and account details.

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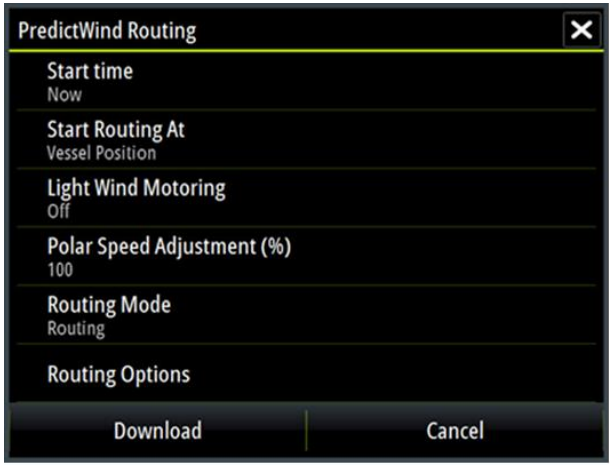
Overview of use: PredictWind

How to use Routing – settings available to configure routing:

1) Set the start time for the route
   a. Start Now
   b. Start from a [user specified] date/time
2) Select where to start the routing from
   a. Start at current Vessel Position (for routing when under way)
   b. Start at the first waypoint in a route (for routing from a fixed point)
3) Select whether to use motoring settings in light winds
   a. Option to use motoring in light winds (cruising only!)
   b. Minimum wind speed – below which you will motor
   c. Boat speed under engine – your typical cruising speed
4) Option to adjust polar table
   a. Ability to set a % adjustment to the Polar table for realistic performance – maybe if you are cruising shorthanded you will only achieve 85% of the boat's potential
5) Set Routing mode
   a. Routing
   b. Departure Planning
   c. Destination Forecast
   d. Sub-options for above.



New PredictWind features require a subscription and a live data connection. See www.predictwind.com for pricing and account details.

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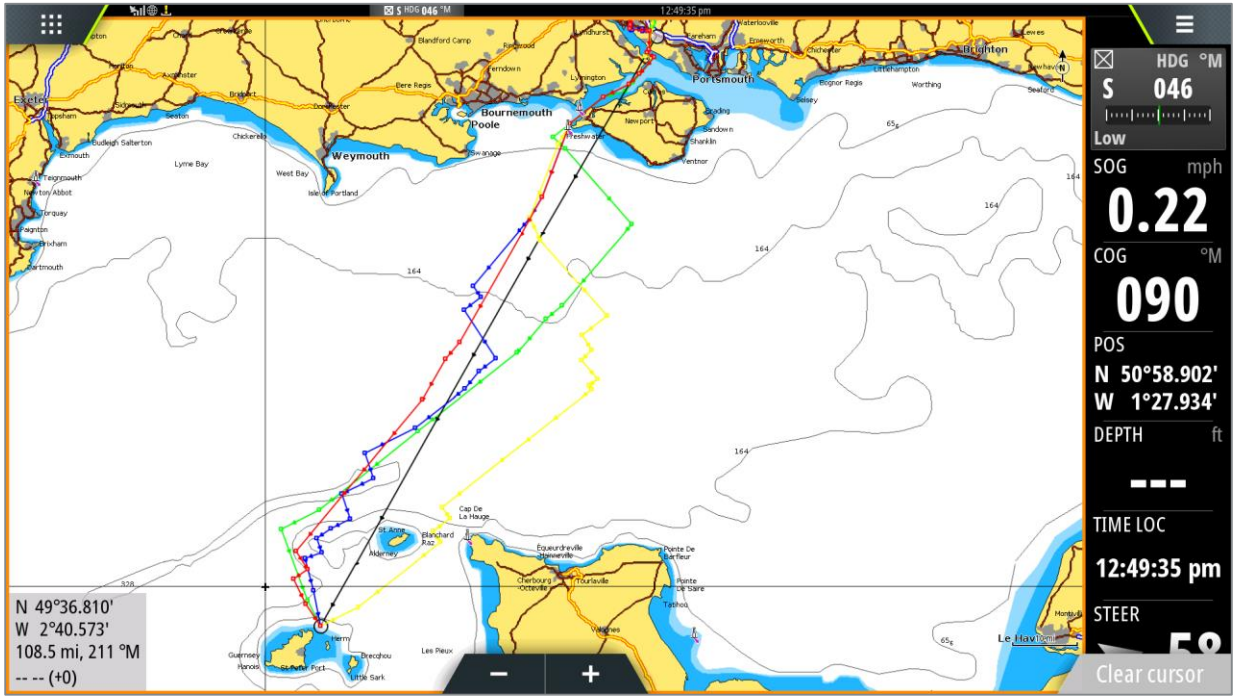
Overview of use: PredictWind



Typical Routing output showing 4 routes from the 4 different weather forecast models available.
(Note that due to a recent update to PredictWind forecast models two of the routes currently show in black, Red and Yellow will re-appear in a future release).

New PredictWind features require a subscription and a live data connection. See www.predictwind.com for pricing and account details.

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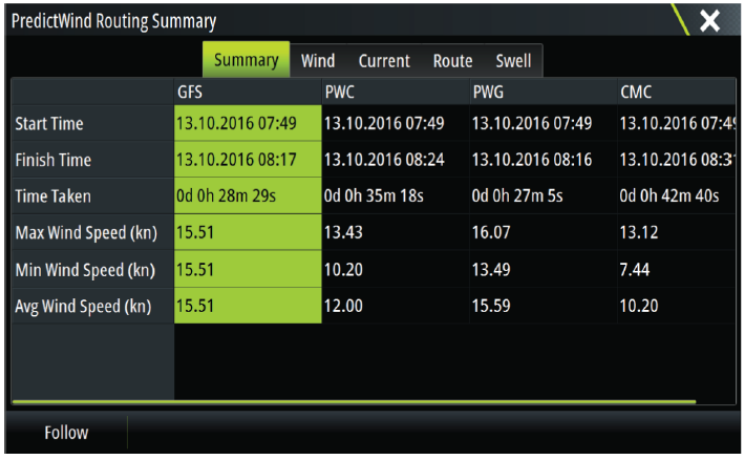
Overview of use: PredictWind

PredictWind Routing Summary

Once the optimised route options have been downloaded, summary data of the route options is provided including:

- Route options including start time, finish time, duration alongside max/min and average wind speed
- Wind forecast at route points
- Current (tidal flow) at route points
- Route points (lat/long)
- Swell forecast at route points



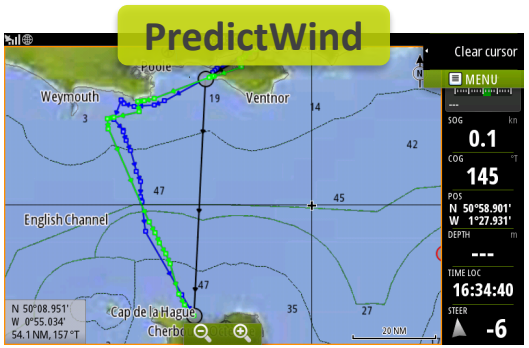
New PredictWind features require a subscription and a live data connection. See www.predictwind.com for pricing and account details.

Overview of use: Weather Routing

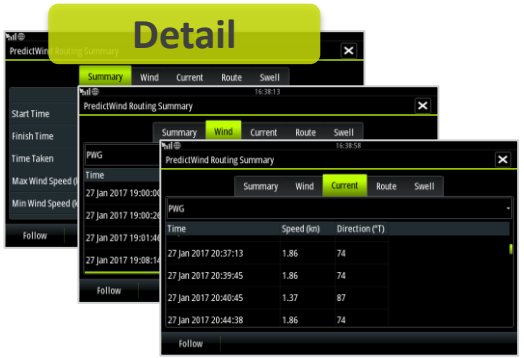
Routing Example.

Departing from Cowes, heading for Cherbourg via the Western Solent on a race that starts at 1900h on a Friday

First set a basic route – in this case I have used 3 waypoints: one at the start, one at the needles waypoint, one at the finish



Select the Route from the Route dialogue (follow waypoints icon from home page). Select PredictWind… apply the settings (see examples below for this route). After a few seconds, depending on size of route and connection speed, 4 route options will be returned [only showing 2 here]



You can view detailed route data from the Chart screen (Menu > PredictWind > Summary)

Settings used in this example:

Start Date:	Fri Jan 27 2017
Start Time:	19:00:00
Light Wind Motoring:	Off
Routing Mode:	Routing
Routing Options:	Avoid where possible ON (wind speed >35 knots, swell >5m)

New PredictWind features require a subscription and a live data connection. See www.predictwind.com for pricing and account details.

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Overview of use: Weather Routing

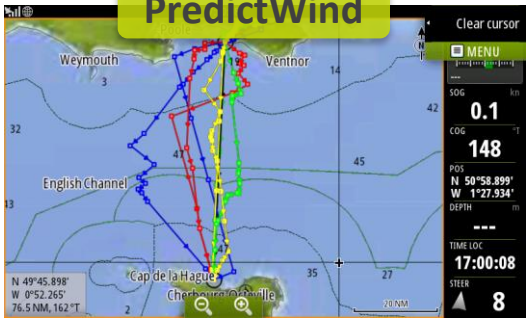
Departure Planning Example.

Departing from Cowes, leaving via the Western Solent to cruise to Cherbourg. Using Departure planning.

Basic Route

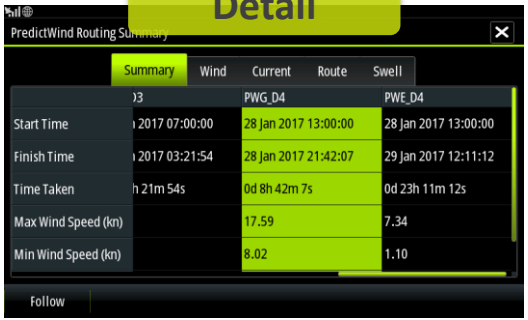
Exactly the same route as the previous example

PredictWind



Select the Route from the Route dialogue (follow waypoints icon from home page). Select PredictWind… apply the settings (see examples below for this route). After a few seconds, depending on size of route and connection speed, the different route options will display

Detail



View the summaries for the routes (Menu > PredictWind > Summary) and select the one that makes sense for your trip. Only showing one page here, but all previous tabs (wind, current, route, swell) are available.

In this case the different starting times give us predicted sailing times between 8 hours and 23 hours – showing the value of good departure planning.

Settings used in this example:

Start Date:	Fri Jan 27 2017
Start Time:	19:00:00
Light Wind Motoring:	On, in less than 4 knots of wind, motoring at 8 knots
Routing Mode:	Departure Planning
Departure options:	Space departures by 6 hours (from start date/time above).

New PredictWind features require a subscription and a live data connection. See www.predictwind.com for pricing and account details.

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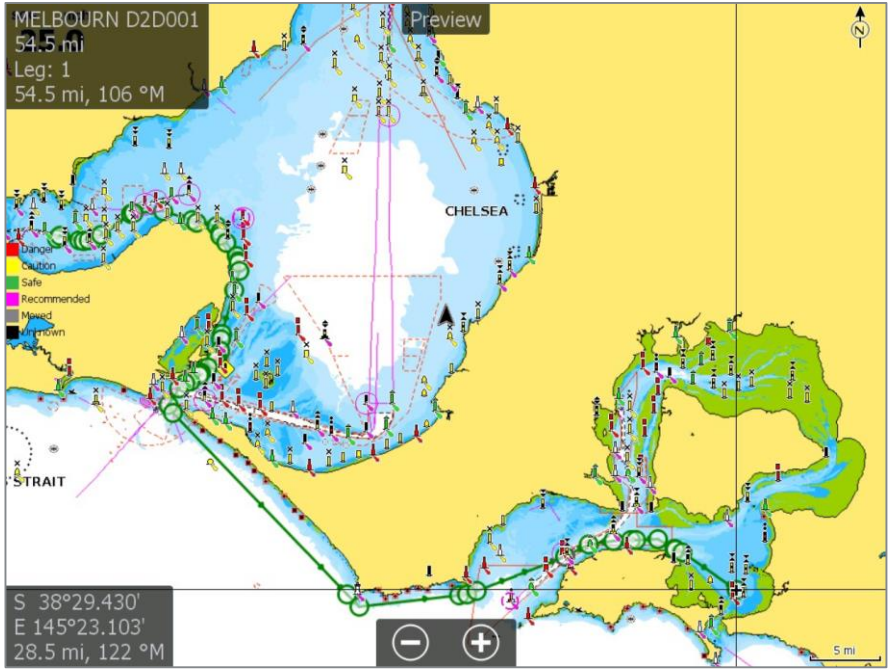
Dock-to-dock Autorouting

Navionics® Dock-to-dock Autorouting enabled

DOCK-TO-DOCK AUTOROUTING* with Navionics

Navionics Dock-to-Dock AutoRouting

Create your own private charting Live on the MFD when using a Navionics chart with an active update subscription.



*Dock-to-Dock Autorouting is not available in US territorial waters

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DOCK-TO-DOCK AUTOROUTING with Navionics

Enhanced AutoRouting
Dock-to-Dock is an improvement upon Navionics Autorouting algorithm, to help provide good guidance and planning in cramped complex waterways with a maze of variables.

A unique breakthrough in boating navigation, Navionics Dock-to-Dock Autorouting, instead, quickly calculates a detailed route even through narrow passages and channels, based on chart data and navigation aids.

Plan Your Route
Choose your destination by selecting a point of interest, entering a lat/long or by tapping on the map. Dock-to-dock Autorouting quickly calculates a detailed route. However, always keep in mind that automatically calculated routes do not replace safe navigation practices and should never be your only reference.

Navionics Dock-to-Dock Autorouting is a geographic routing feature, it takes into account geography such as narrows, shallows, bridges etc. but it does not take into account the effect of wind and currents. For optimising a sailing route use the new PredictWind Weather Routing feature.

Dock-to-Dock Autorouting is not available in US territorial waters

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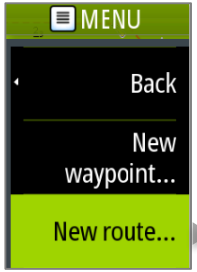
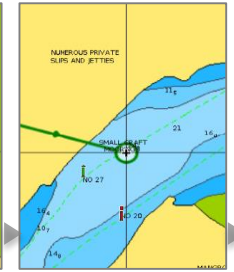
DOCK-TO-DOCK AUTOROUTING with Navionics

Using Dock to Dock Autorouting



Add Origin waypoint



Add Destination waypoint

MENU > Dock-to-dock Autorouting > Entire Route

Dock-to-Dock Autorouting is not available in US territorial waters

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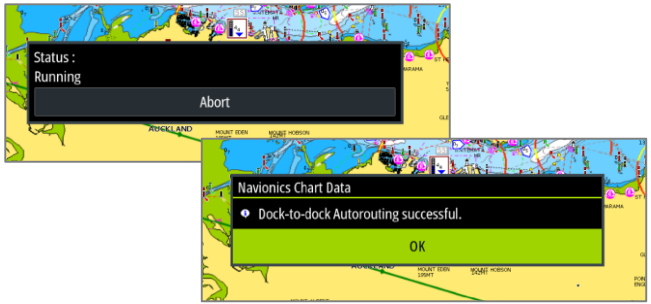
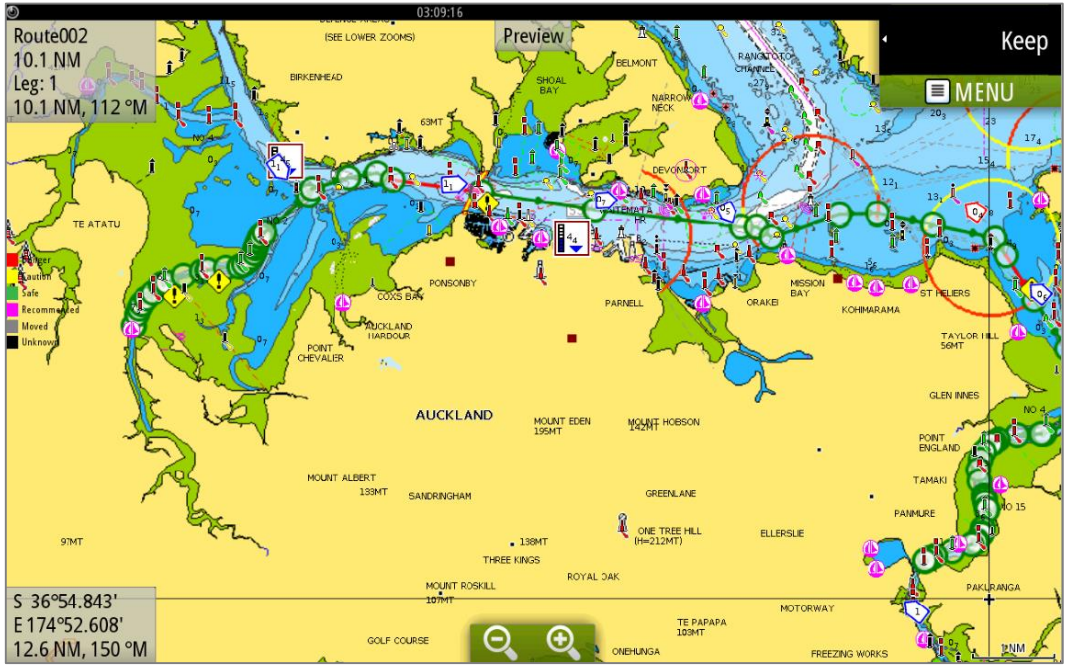
DOCK-TO-DOCK AUTOROUTING with Navionics

Using Dock to Dock Autorouting





Dock-to-dock Autorouting quickly calculates a detailed route

Always keep in mind that automatically calculated routes do not replace safe navigation practices and should never be your only reference.

Dock-to-Dock Autorouting is not available in US territorial waters

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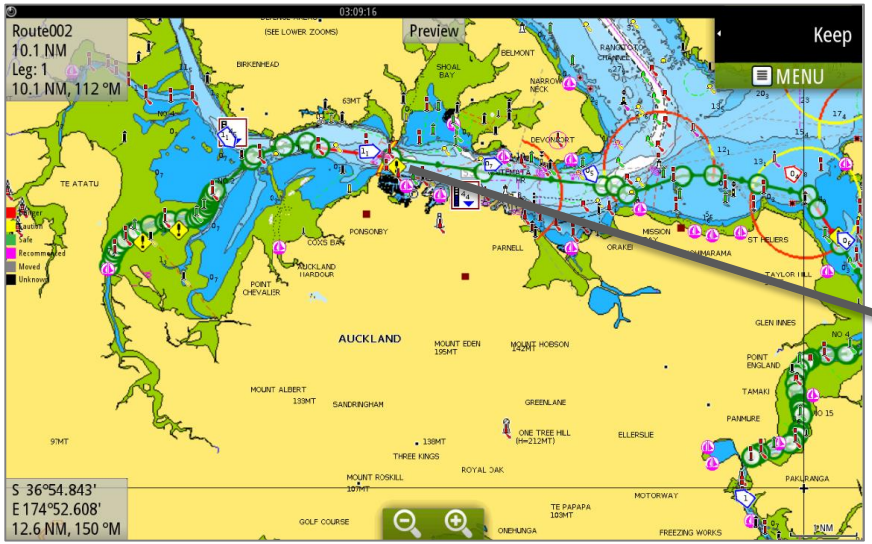
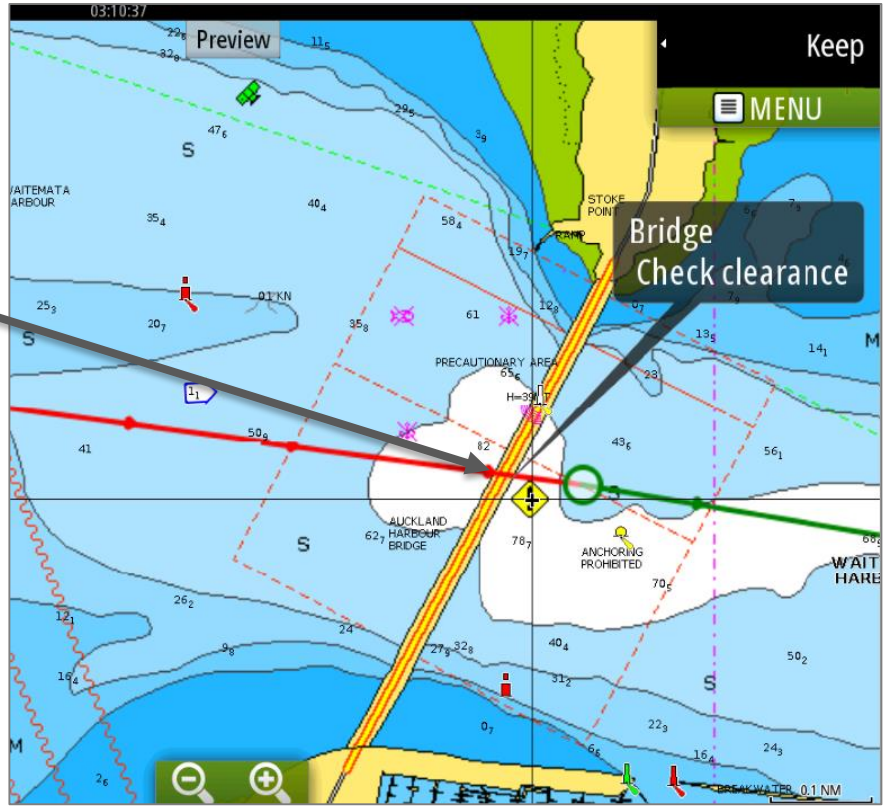
DOCK-TO-DOCK AUTOROUTING with Navionics





Carefully review each warning along the route before selecting Keep and saving the route.

Dock-to-Dock Autorouting is not available in US territorial waters

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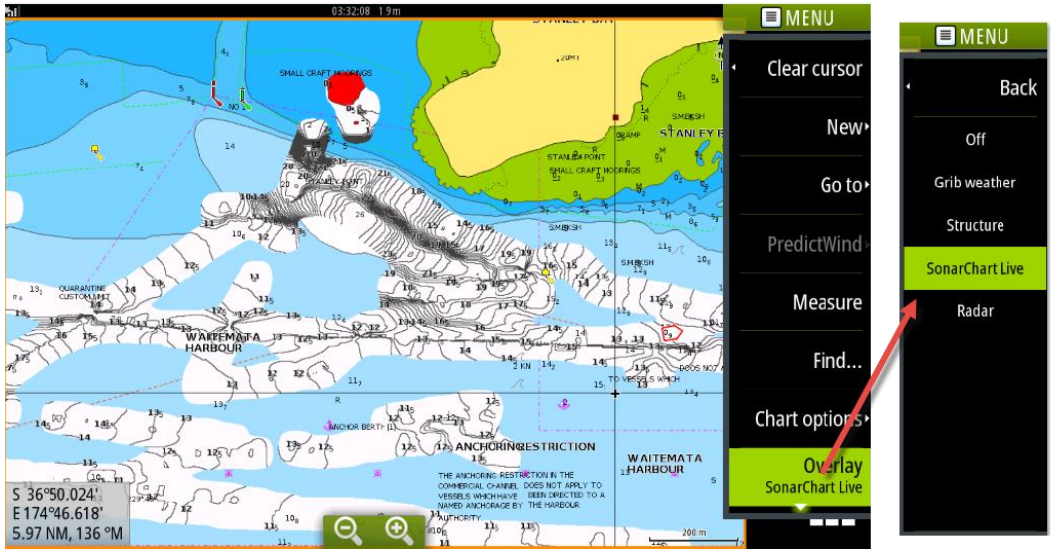
NAVIONICS SonarChart Live

Create your own private charting, live on the MFD.

LIVE BATHYMETRIC CHARTS with Navionics SonarCharts Live

SonarChart™ Live allows boaters to create personal 1 ft/0.5 m HD bathymetry maps in real time on the display of their Lowrance, Simrad and B&G chart plotter models. With SonarChart Live, boaters can engage their sonar to create new and increasingly detailed charts everywhere they go, raising awareness of shallow waters and frequently revealing previously uncharted bottom features, such as holes and drop-offs.



SonarChart™ Requires a Navionics chart card with an active chart updates subscription

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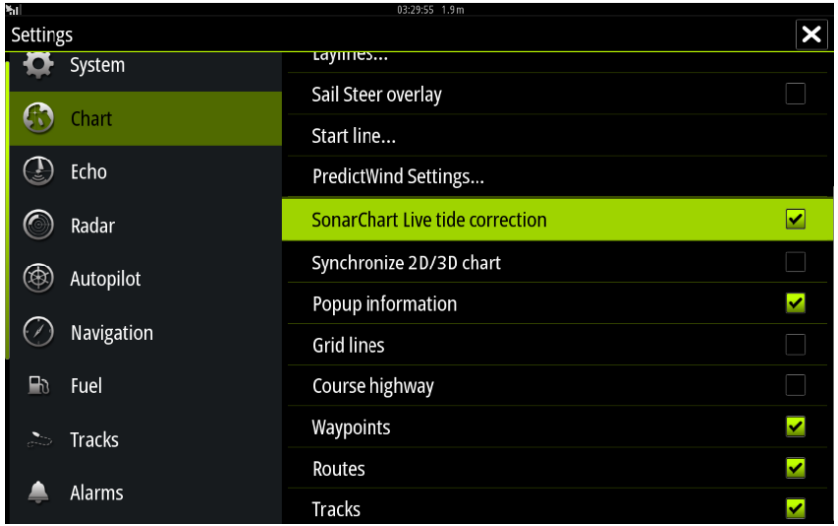
LIVE BATHYMETRIC CHARTS with Navionics SonarCharts Live

New SonarChart Live tide correction option

- The new SonarChart Live tide correction option is added to the Chart Settings dialog.
- When selected, the tide correction feature uses information from nearby tide stations (if available) to adjust the depth values used by SonarChart Live as the sonar is recorded.



SonarChart™ Requires a Navionics chart card with an active chart updates subscription

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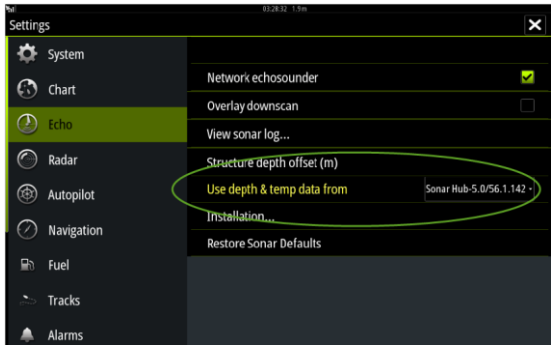
LIVE BATHYMETRIC CHARTS with Navionics SonarCharts Live

Setup

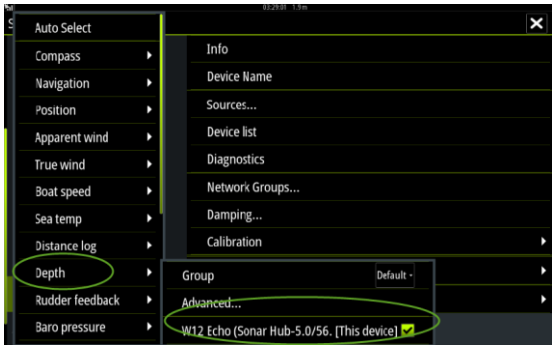
SonarChart Live feature uses the systems source for digital depth as broadcast on the NMEA2000 network. This is the same depth as shown on an Instrument bar.

To use SonarChart Live:

1. Setup the system source for digital depth. This is now a two step process. First nominate the transducer that is providing digital Depth and Temp in the Echo > Settings.



2. Set the Network source for Digital Depth under Settings>Network>Sources>Depth



Notes

- The SonarChart Live data is written to the Navionics Chart card being used. If multiple cards are used, data is written to the first valid card inserted that has an active subscription.
- SonarChart Live data is not used for anything other than the SonarChart Live overlay, Navionics does not ever collect it.

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Navionics Plotter Sync

Transfer routes and waypoints between the Navionics mobile device app and the Navionics chart card in use

NAVIONICS PLOTTER SYNC*

About Navionics Plotter Sync

Plotter Sync allows the two way transfer of routes and waypoints between the Navionics mobile device app and the Navionics chart card inserted into a B&G MFD or Chart Plotter.

Plotter Sync can also update the chart data on the MFD card from the mobile app.

The data transfer is done over Wi-Fi by connecting the mobile device to the MFD via its internal Wi-Fi interface, or via an external WIFI-1 module.

Routes and waypoints created on the Navionics mobile app, including automatically created routes, can be imported to the B&G MFD and vice versa.

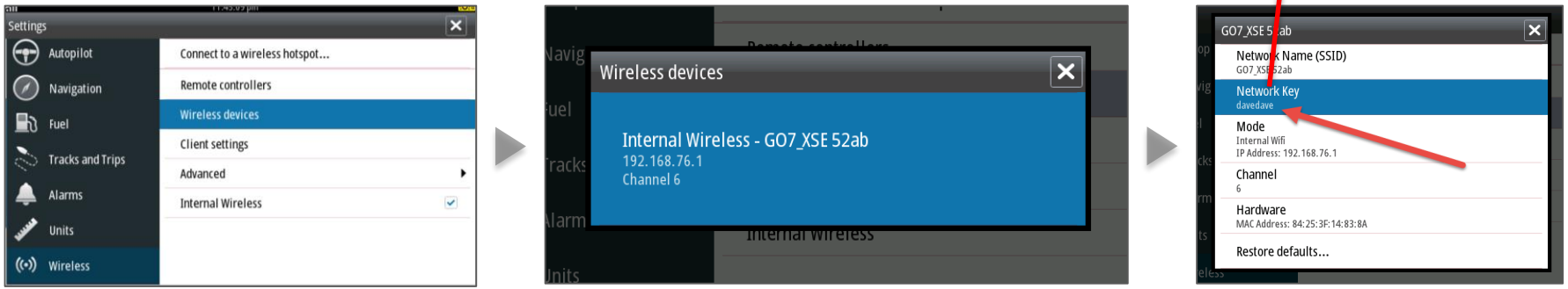
*Plotter Sync requires the Navionics app with an active subscription and a Navionics mapping card with an active chart update subscription

NAVIONICS PLOTTER SYNC

How to use Plotter Sync

To connect the mobile device Wi-Fi to the MFD Wi-Fi access point:

To find the password (network key) of the MFD or WIFI-1: HOME > Settings > Wireless



*Plotter Sync requires the Navionics app with an active subscription and a Navionics mapping card with an active chart update subscription

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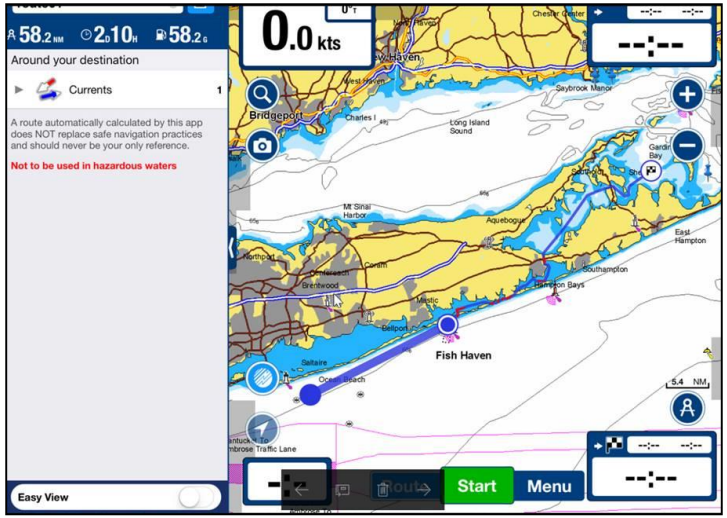
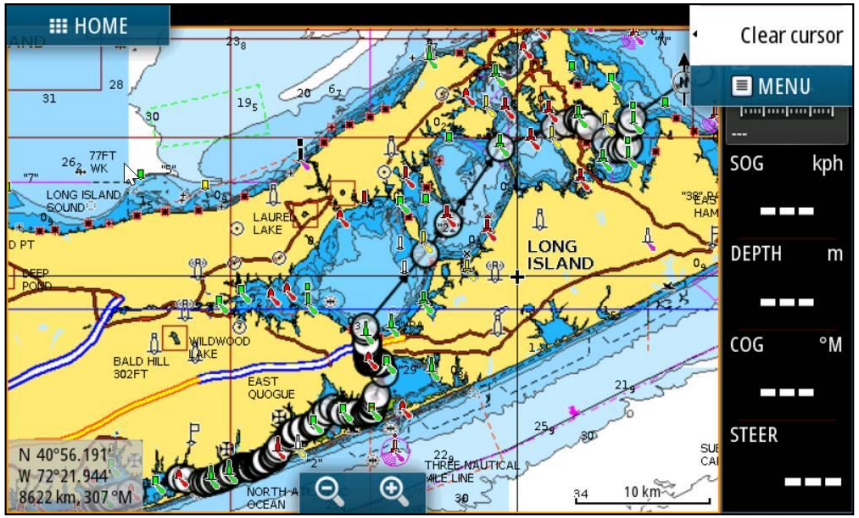
NAVIONICS PLOTTER SYNC

How to use Plotter Sync - Updating charts and send Routes and Markers (Waypoints) to the MFD from the app (1)





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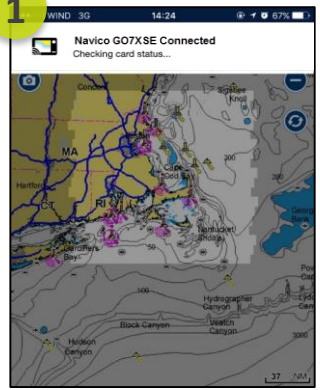
NAVIONICS PLOTTER SYNC

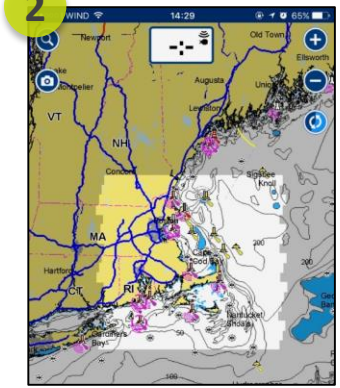
How to use Plotter Sync - Updating charts and send Routes and Markers (Waypoints) to the MFD from the app (2)

1



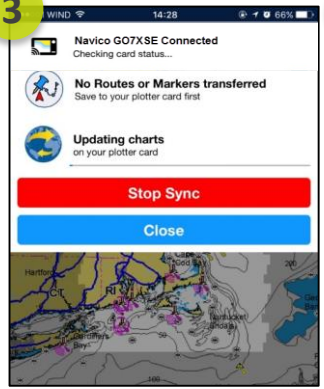
Connect to the MFD. Menu > Connect a device

2



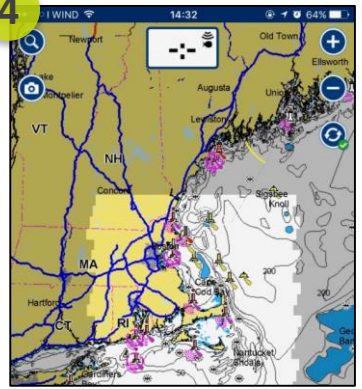
Begin Sync

3



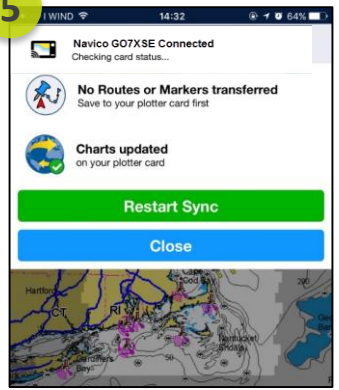
See Sync Details by clicking the Sync icon

4



Sync Complete

5



See Sync Details

*Plotter Sync requires the Navionics app with an active subscription and a Navionics mapping card with an active chart update subscription

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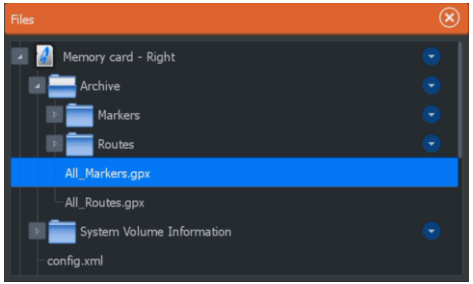
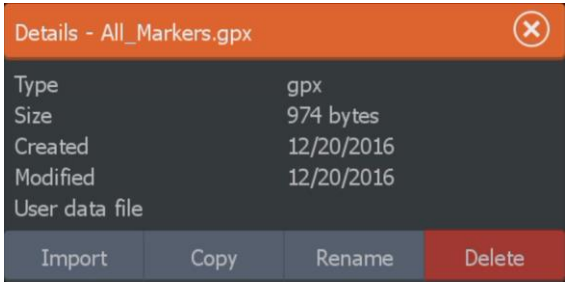
NAVIONICS PLOTTER SYNC

How to use Plotter Sync - Import Routes and Waypoints

The routes and waypoint information from the Navionics App has now been copied to the Chart card on the MFD. It must now be imported from the card into the MFD database.

- Select HOME **>** FILES
- Select the Memory card **>** Archive Folder
- To import Waypoints, select ALL_Markers.gpx
- To import Routes, select ALL_Routes.gpx





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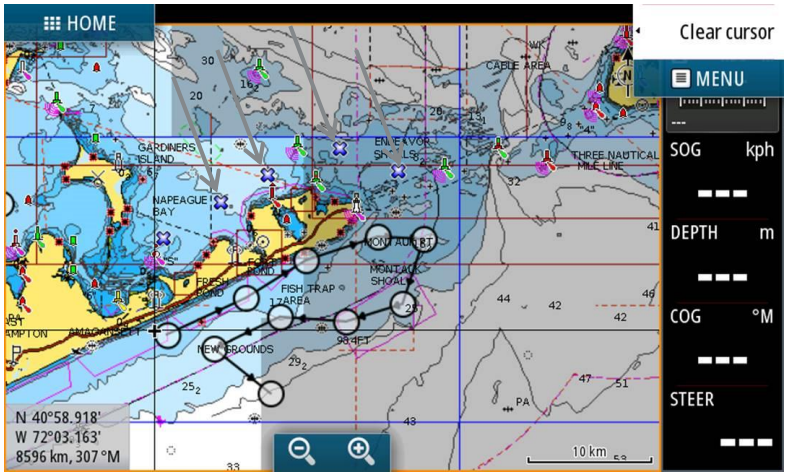
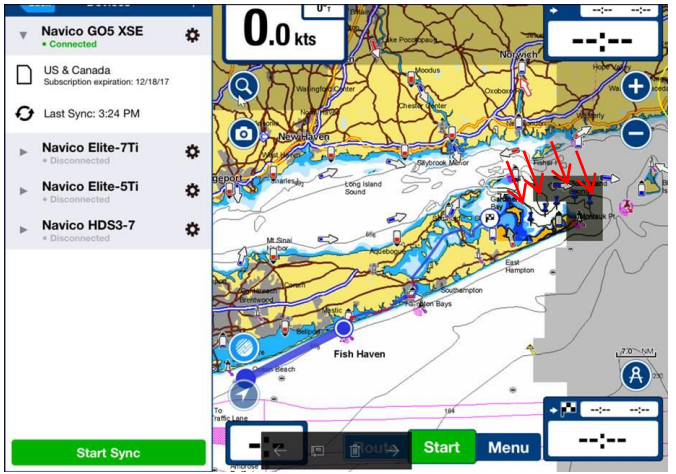
NAVIONICS PLOTTER SYNC

How to use Plotter Sync - Export Routes and Waypoints from the MFD to the Navionics mobile app (1)





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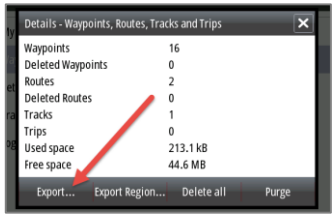
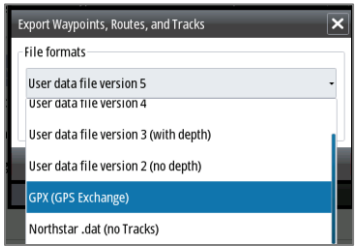
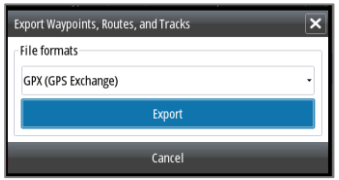
NAVIONICS PLOTTER SYNC

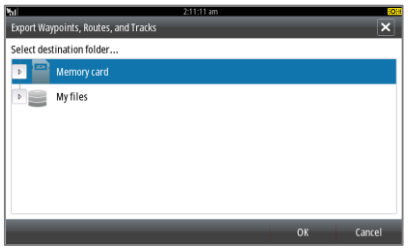
How to use Plotter Sync - Export Routes and Waypoints from the MFD to the Navionics mobile app (2)

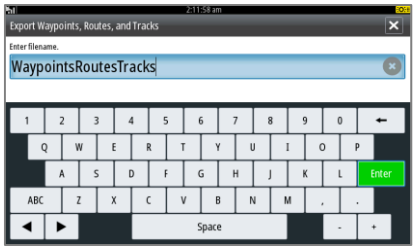
- Select HOME **>** FILES
- Select Waypoints, Routes, Tracks and Trips database
- Select Export
- Select GPX (GPS Exchange) > Export
- Select the Memory card slot that has the Chart Card inserted > OK
- Name the File > Enter











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NMEA 2000 Audio and Entertainment

Adds compatibility with 3rd party audio providers

NMEA2000 ENTERTAINMENT and AUDIO enhancements

Updates

- Added compatibility with 3rd party audio providers using the standard B&G audio control
- Compatible sources are automatically populated by the connected audio server

Audio partners we have worked with to date:

- JL Audio® – MediaMaster® MM100s
  http://www.jlaudio.com/mediamaster-mm100s-marine-audio-source-units-99903

- Prospec Electronics – Infinity® INFPRV450/INFMBB400/INFMBB4030
  http://prospecelectronics.com/infprv450.html
  http://prospecelectronics.com/infmbb400.html
  http://prospecelectronics.com/infmbb4030.html

- ASA Electronics – Polk® Ultramarine PA4A
  http://www.asaelectronics.com/polk-ultramarine-wb-usb-siriusxm-ready-ipod-iphone-ready-bluetooth-with-app-control.html

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