

AS THE PROP TURNS

- A Live Webinar Series Hosted by Ranger Tugs and Cutwater Boats -



GARMIN 101



**Thank you for joining us for
Garmin 101**



Thursday April 9th 2020

Topics we will cover today:

1

Vessel Settings

- a. Keel offset
- b. Low fuel alarm
- c. Fuel tank size
- d. Shallow water alarm
- e. System units
- f. Auto guidance settings
- g. Setting up animated tides and currents

2

Configuring Displays

- a. Setting up the Favorites Tab
- b. Side bar / data bar

3

Basic Features

- a. Viewing tides and currents
- b. Route creation
 - i. Using auto guidance
 - ii. Finding a destination using "Search by name"
 - iii. Recalculating routes
 - iv. Deleting Active Tracks



Will this information be available after the webinar?

Yes!

After this livestream, we will be uploading the presentation slides to Dropbox, along with a log of the Q&A.

A recording of this webinar will be posted to the Ranger Tugs YouTube channel.

Everyone registered for the webinar will receive an email with links to the recording, and relevant documents.

Home Screen Elements



The Home Screen on the Garmin is comprised of 4 primary elements

1. Status Bar
2. Pages Button
3. Categories Bar
4. Menu Bar



Configuring Vessel Settings

Vessel Settings: Keel Offset



Home - Charts Close GPSMAP 8612xsv 17.8 📶 🔔 🗺️

 Nav. Chart

 Fishing Chart

 3D Chart

 Fish Eye 3D

 Radar Overlay

- FAVORITES
- SMARTMODE™
- COMBOS
- CHARTS**
- SONAR
- RADAR
- ONEHELM™
A/V, GAUGES

Engage Waypoints Info **Settings** Menu Mark SOS

1

Vessel Settings: Keel Offset



A screenshot of the GPSMAP 8612xsv settings menu. The screen has a dark background with a grid pattern. At the top left, it says "Settings Close". At the top center, it says "GPSMAP 8612xsv". At the top right, there is a time display "21.3f" and several status icons. A vertical list of settings options is on the right side: "System", "Preferences", "Communications", "Alarms", "My Vessel", and "Other Vessels". The "My Vessel" option is highlighted with a red rectangular box, and a red number "2" is placed to its left. At the bottom of the settings list is a blue "Back" button with a left-pointing arrow. At the very bottom of the screen is a navigation bar with several icons: "Engage", "Waypoints", "Info", "Home" (which is highlighted), "Menu", "Mark", and "SOS".

Vessel Settings: Keel Offset



The screenshot shows the settings menu for a GPSMAP 8612xsv device. The menu items are:

- Depth and Anchoring (highlighted with a red box)
- Fuel Capacity 145_{gal}
- Vessel Type Non-Plane
- Autopilot Installation Setup
- Switching
- Hull ID Number Not Entered
- System Profiles
- Back

At the bottom of the screen, there is a navigation bar with the following options: Engage, Waypoints, Info, Home (selected), Menu, Mark, and SOS.

Vessel Settings: Keel Offset

A screenshot of the GPSMAP 8612xsv Depth and Anchoring settings menu. The screen has a dark background with a grid pattern. At the top left, it says "Depth and Anchoring" with a "Close" button. At the top center, it says "GPSMAP 8612xsv" with a red "4" next to it. At the top right, there are status icons for depth (21.3f), a yellow warning triangle, signal strength, and cellular data. The settings menu is on the right side, with a red box highlighting the "Keel Offset" setting, which is currently set to "0.0f". Below it are "Anchor Height" set to "3.0f" and "Anchor Scope" set to "7:1". At the bottom right, there is a "Back" button. At the bottom of the screen, there is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Setting	Value
Keel Offset	0.0f
Anchor Height	3.0f
Anchor Scope	7:1

Vessel Settings: Keel Offset



Keel Offset Close

GPSMAP 8612xsv

21.1°

5

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Keel Offset



Keel Offset
Close

GPSMAP 8612xsv

21.1f

+02.5f

1 2 3

4 5 6

7 8 9

0

+ -

Cancel

Clear

◀ ▶

Done

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Keel Offset

A screenshot of the GPSMAP 8612xsv Depth and Anchoring settings menu. The screen has a dark background with a grid pattern. At the top left, it says "Depth and Anchoring" with a "Close" button. The title "GPSMAP 8612xsv" is centered at the top. On the right side, there is a settings menu with three items: "Keel Offset" (2.5f), "Anchor Height" (3.0f), and "Anchor Scope" (7:1). The "Keel Offset" value is circled in red. At the bottom, there is a "Back" button and a navigation bar with "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS" buttons. The top status bar shows "21.3f" and various system icons.

Depth and Anchoring
Close

GPSMAP 8612xsv

21.3f

Keel Offset 2.5f

Anchor Height 3.0f

Anchor Scope 7:1

Back

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Fuel Capacity



Home - Charts
Close

GPSMAP 8612xsv 17.8

Nav. Chart Fishing Chart 3D Chart Fish Eye 3D

Radar Overlay

FAVORITES
SMARTMODE™
COMBOS
CHARTS
SONAR
RADAR
ONEHELM™
A/V, GAUGES

Engage Waypoints Info **Settings** Menu Mark SOS

1

Vessel Settings: Fuel Capacity



A screenshot of the GPSMAP 8612xsv settings menu. The screen has a dark background with a grid pattern. At the top left, it says "Settings Close". At the top center, it says "GPSMAP 8612xsv". At the top right, there are status icons for temperature (21.3), a yellow warning icon, signal strength, and a network icon. A list of settings is shown on the right side: System, Preferences, Communications, Alarms, My Vessel, and Other Vessels. The "My Vessel" option is highlighted with a red rectangular box, and a red number "2" is placed to its left. At the bottom of the settings list is a blue "Back" button with a left-pointing arrow. At the very bottom of the screen is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Vessel Settings: Fuel Capacity



My Vessel [Close](#)

GPSMAP 8612xsv

21.2° [Compass] [Alert]

[Signal] [Bluetooth]

- Depth and Anchoring
- 3 Fuel Capacity 145 gal**
- Vessel Type Non-Plane
- Autopilot Installation Setup
- Switching
- Hull ID Number Not Entered
- System Profiles
- Back

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Fuel Capacity



Total Fuel Capacity Close

GPSMAP 8612xsv 15.3!

4

1 2 3

4 5 6 Clear

7 8 9

Cancel 0 5 Done

Engage Waypoints Info Home Menu Mark SOS



Fuel Capacities (2020)

Ranger Tugs		Cutwater	
R-23	80 gal	C-24 C	116 gal
R-25	99 gal	C-24 CW	116 gal
R-27	150 gal	C-24 DC	116 gal
R-29 S	145 gal	C-28	100 gal
R-29 CB	145 gal	C-30 S	180 gal
R-31 S	180 gal	C-30 CB	180 gal
R-31 CB	180 gal	C-32 C	300 gal
R-41 S	300 gal	C-32 CB	300 gal
R-41 CB	300 gal		

Vessel Settings: Low Fuel Alarm



Home - Charts
Close

GPSMAP 8612xsv 17.8

Nav. Chart Fishing Chart 3D Chart Fish Eye 3D

Radar Overlay

FAVORITES
SMARTMODE™
COMBOS
CHARTS
SONAR
RADAR
ONEHELM™
A/V, GAUGES

Engage Waypoints Info **Settings** Menu Mark SOS

1

Vessel Settings: Low Fuel Alarm



A screenshot of the GPSMAP 8612xsv settings menu. The screen has a dark background with a grid pattern. At the top left, it says "Settings" and "Close". At the top center, it says "GPSMAP 8612xsv". At the top right, there are status icons for temperature (21.3), a yellow warning icon, signal strength, and a network icon. A red box highlights the "Alarms" option in the settings list, with a red number "2" next to it. The settings list includes: System, Preferences, Communications, Alarms, My Vessel, and Other Vessels. At the bottom right, there is a "Back" button. At the very bottom, there is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Vessel Settings: Low Fuel Alarm



Alarms [Close](#)

GPSMAP 8612xsv

21.1°

- Navigation
- System
- Sonar
- Collision Alarm
- Network
- 3 Fuel**

Back

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Low Fuel Alarm



A screenshot of a vessel's GPSMAP 8612xsv display. The screen has a dark background with a grid pattern. At the top left, it says "Fuel" and "Close". In the top center, it says "GPSMAP 8612xsv" with a red "4" next to it. On the right side, there is a status bar with "21.1", a compass icon, a yellow warning triangle, a signal strength icon, and a battery icon. A red rectangular box highlights a settings menu that is open, showing "Total Fuel Onboard" with the value "Off" next to it. At the bottom of the screen, there is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home" (which is highlighted), "Menu", "Mark", and "SOS". A "Back" button is also visible in the bottom right corner of the screen area.

Vessel Settings: Low Fuel Alarm



The screenshot shows the GPSMAP 8612xsv interface. At the top left, the text "Total Fuel Onboard Alarm" is displayed in white, with a blue "Close" button below it. The top center shows "GPSMAP 8612xsv" in white. The top right corner displays "21.2" and various status icons including a compass, a yellow warning triangle, signal strength, and cellular data. A settings menu is open on the right side, with two options: "Off" and "On". The "On" option is highlighted with a red rectangular border, and a red number "5" is positioned to its left. At the bottom right of the screen, there is a blue "Back" button with a left-pointing arrow. The bottom navigation bar contains several icons: "Engage", "Waypoints", "Info", "Home" (which is highlighted), "Menu", "Mark", and "SOS".

Vessel Settings: Low Fuel Alarm



Total Fuel Onboard Alarm Close

GPSMAP 8612xsv 21.2!

5

1 2 3

4 5 6 Clear

7 8 9 ◀ ▶

6 Cancel Done

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Low Fuel Alarm



A screenshot of a GPSMAP 8612xsv display. The screen shows a dark background with a grid pattern. At the top left, the word "Fuel" is displayed in white, with "Close" in blue below it. In the top center, "GPSMAP 8612xsv" is written in white. On the right side, there is a grey box containing the text "Total Fuel Onboard" and "20 gal". The "20 gal" text is circled in red. At the bottom of the screen, there is a navigation bar with several buttons: "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS". The "Home" button is highlighted with a red box. A red number "7" is positioned above the "Home" button. In the top right corner, there are several status icons, including a battery level indicator, a signal strength indicator, and a cellular signal indicator.

Vessel Settings: Shallow Water Alarm



Home - Charts
Close

GPSMAP 8612xsv 17.8

Nav. Chart Fishing Chart 3D Chart Fish Eye 3D

Radar Overlay

FAVORITES
SMARTMODE™
COMBOS
CHARTS
SONAR
RADAR
ONEHELM™
A/V, GAUGES

Engage Waypoints Info **Settings** Menu Mark SOS

1

Vessel Settings: Shallow Water Alarm



A screenshot of the GPSMAP 8612xsv settings menu. The screen has a dark background with a grid pattern. At the top left, it says "Settings Close". At the top center, it says "GPSMAP 8612xsv". At the top right, there are status icons for temperature (21.3), a yellow warning icon, signal strength, and a network icon. A red box highlights the "Alarms" option in the settings list, with a red number "2" next to it. The settings list includes: System, Preferences, Communications, Alarms, My Vessel, and Other Vessels. At the bottom right, there is a "Back" button with a left arrow. At the bottom, there is a navigation bar with buttons for Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Vessel Settings: Shallow Water Alarm



A screenshot of the GPSMAP 8612xsv settings menu. The screen is dark with a grid pattern. At the top left, it says "Alarms Close". At the top center, it says "GPSMAP 8612xsv". At the top right, there are status icons for signal strength, battery, and a yellow warning icon. A red box highlights the "Sonar" option in the settings list, with a red number "3" next to it. The settings list includes: Navigation, System, Sonar, Collision Alarm, Network, and Fuel. At the bottom of the settings list is a "Back" button. At the very bottom of the screen is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Vessel Settings: Shallow Water Alarm



The screenshot shows the settings menu for a Shallow Water Alarm on a GPSMAP 8612xsv. The menu is displayed on a dark background with a grid pattern. The top status bar shows "21.3f" and various icons. The settings are as follows:

Setting	Status
Shallow Water	Off
Deep Water	Off
Contour	Off
Fish	Off

At the bottom of the screen, there is a "Back" button and a navigation bar with the following options: Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Vessel Settings: Shallow Water Alarm



A screenshot of the GPSMAP 8612xsv interface showing the "Shallow Water Alarm" settings. The screen has a dark background with a grid pattern. At the top left, it says "Shallow Water Alarm" with a "Close" button. The title "GPSMAP 8612xsv" is centered at the top. On the right side, there is a toggle switch with two options: "Off" and "On". The "On" option is highlighted with a red rectangular box, and a red number "5" is placed to its left. At the bottom right, there is a "Back" button with a left-pointing arrow. The bottom navigation bar contains several icons: "Engage", "Waypoints", "Info", "Home" (which is highlighted), "Menu", "Mark", and "SOS". The top status bar shows "21.4f" and various system icons like signal strength and battery.

Vessel Settings: Shallow Water Alarm



Shallow Water Alarm Close

GPSMAP 8612xsv 21.2° 🔄 📶 📶

6

1 2 3

4 5 6 Clear

7 8 9 ◀ ▶

Cancel 0 7 Done

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Shallow Water Alarm



Sonar Alarms
Close

GPSMAP 8612xsv

21.4f

Shallow Water 12.0f

Deep Water Off

Contour Off

Fish Off

Back

Engage Waypoints Info **Home** Menu Mark SOS

Vessel Settings: System Units



Home - Charts
Close

GPSMAP 8612xsv 17.8!   

Nav. Chart Fishing Chart 3D Chart Fish Eye 3D

Radar Overlay

FAVORITES
SMARTMODE™
COMBOS
CHARTS
SONAR
RADAR
ONEHELM™
A/V, GAUGES

Engage Waypoints Info **Settings** Menu Mark SOS

1



Vessel Settings: System Units



A screenshot of the GPSMAP 8612xsv settings menu. The background is a dark grid pattern. At the top left, it says "Settings Close". At the top center, it says "GPSMAP 8612xsv". At the top right, there are status icons for time (21.3), a yellow warning icon, signal strength, and a network icon. A red box highlights the "Preferences" option in the settings list, with a red number "2" next to it. The settings list includes "System", "Preferences", "Communications", "Alarms", "My Vessel", and "Other Vessels". At the bottom right of the settings list is a "Back" button with a left arrow. At the bottom of the screen is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Vessel Settings: System Units

A screenshot of the GPSMAP 8612xsv preferences menu. The screen has a dark background with a grid pattern. At the top left, it says "Preferences" and "Close" in blue. At the top center, it says "GPSMAP 8612xsv" with a red "3" next to it. At the top right, there are status icons for battery (21.3%), a yellow warning icon, signal strength, and cellular data. The "Units" menu item is highlighted with a red rectangular border. Below it are "Language" (English), "Navigation", "Keyboard Layout" (QWERTY), "Screenshot Capture" (On), and "Menu Bar Display" (Show). At the bottom right is a "Back" button. At the very bottom is a navigation bar with "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS" buttons.

Preferences
Close

GPSMAP 8612xsv 3

21.3% [warning icon] [signal icon] [cellular icon]

Units

Language English

Navigation

Keyboard Layout QWERTY

Screenshot Capture On

Menu Bar Display Show

Back

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: System Units



Units [Close](#) GPSMAP 8612xsv 4 21.3f [Icons]

System Units	Nautical
North Reference	Mag.
Variance	Auto 015°E
Position Format	hddd°mm.mmm'
Map Datum	WGS 84
Time	

[Back](#)

Engage Waypoints Info **Home** Menu Mark SOS

Vessel Settings: System Units



The screenshot shows the "System Units" menu on a GPSMAP 8612xsv device. The menu is titled "System Units" with a "Close" button in the top left. The device name "GPSMAP 8612xsv" is displayed at the top center. The top right corner shows the time "21.31" and various status icons. The menu options are "Statute", "Metric", "Nautical", and "Custom". The "Nautical" option is highlighted with a red rectangular box, and a red number "5" is positioned to its left. A "Back" button is located at the bottom right of the menu. The bottom of the screen features a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Vessel Settings: Auto Guidance Parameters



Vessel Settings: Auto Guidance Parameters



A screenshot of the GPSMAP 8612xsv settings menu. The screen has a dark background with a grid pattern. At the top left, it says "Settings" and "Close". At the top center, it says "GPSMAP 8612xsv". At the top right, there are status icons for time (21.3), a yellow warning icon, signal strength, and a blue square icon. A red box highlights the "Preferences" option in the settings list, with a red number "2" next to it. The settings list includes "System", "Preferences", "Communications", "Alarms", "My Vessel", and "Other Vessels". At the bottom right, there is a "Back" button. At the bottom, there is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Vessel Settings: Auto Guidance Parameters



A screenshot of the GPSMAP 8612xsv Preferences menu. The screen has a dark background with a grid pattern. At the top left, it says "Preferences" and "Close". At the top center, it says "GPSMAP 8612xsv". At the top right, there are status icons for signal strength, battery, and a red alert icon. The menu items are: "Units", "Language" (set to English), "Navigation" (highlighted with a red box and a red number "3" to its left), "Keyboard Layout" (set to QWERTY), "Screenshot Capture" (set to On), and "Menu Bar Display" (set to Show). At the bottom right, there is a "Back" button. At the very bottom, there is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Vessel Settings: Auto Guidance Parameters



A screenshot of the GPSMAP 8612xsv navigation software interface. The screen is dark with a grid pattern. At the top, it says "Navigation Close" in blue, "GPSMAP 8612xsv" in white, and "21.2" with various status icons. A settings menu is open on the right side, listing "Route Labels", "Turn Transition", "Speed Sources", "Auto Guidance", and "Route Start". The "Auto Guidance" option is highlighted with a red rectangular box, and a red number "4" is placed to its left. The "Route Start" option has a "Boat" toggle switch that is turned on. At the bottom of the settings menu is a "Back" button. The bottom of the screen features a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home" (which is highlighted), "Menu", "Mark", and "SOS".

Vessel Settings: Auto Guidance Parameters



The screenshot shows the Auto Guidance settings interface on a GPSMAP 8612xsv. The screen has a dark background with a grid pattern. At the top left, it says "Auto Guidance" and "Close". At the top center, it says "GPSMAP 8612xsv 5". At the top right, there are status icons for speed (21.2), a yellow warning triangle, signal strength, and battery level. A red box highlights the "Preferred Depth" setting, which is set to 3.0. Below it, "Vertical Clearance" is set to 10.0, and "Shoreline Distance" is set to Normal. At the bottom right, there is a "Back" button. At the bottom, there is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Setting	Value
Preferred Depth	3.0
Vertical Clearance	10.0
Shoreline Distance	Normal

Vessel Settings: Auto Guidance Parameters

A screenshot of a vessel's auto guidance settings interface. The main display area is a dark grid with the text "GPSMAP 8612xsv" and a small "6" in the top right. A "Preferred Depth" dialog box is open, showing a vertical slider set to 18.0ft. The slider has a scale from 0.0ft to 30.0ft in 3.0ft increments. To the right of the slider are "Up" and "Down" buttons. A "Back" button is at the bottom right of the dialog. At the top left of the dialog is a "Close" button. The bottom of the screen has a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Preferred Depth
Close

GPSMAP 8612xsv 6

18.0ft

0.0ft
3.0ft
6.0ft
9.0ft
12.0ft
15.0ft
18.0ft
24.0ft
30.0ft

Up
Down

Back

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Auto Guidance Parameters



Auto Guidance
Close

GPSMAP 8612xsv

21.2°

Preferred Depth 18'

Vertical Clearance 10.0'

Shoreline Distance Normal

Back

Engage Waypoints Info Home Menu Mark SOS

7

Vessel Settings: Auto Guidance Parameters



Vertical Clearance Close

GPSMAP 8612xsv

21.3°

8

1	2	3
4	5	6
7	8	9
0		

Clear ← →

Cancel Done

Engage Waypoints Info **Home** Menu Mark

Vessel Settings: Auto Guidance Parameters



Auto Guidance
Close

GPSMAP 8612xsv

21.2°

Preferred Depth 18.0'

Vertical Clearance 18.0'

9 Shoreline Distance Normal

Back

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Auto Guidance Parameters

A screenshot of a vessel's auto guidance settings interface. The main display area is a dark grid with the text "GPSMAP 8612xsv" and a red "10" in the top right. A "Shoreline Distance" menu is open, showing a vertical slider with labels "Nearest", "Near", "Normal", "Far", and "Farthest". The slider is currently positioned at the "Farthest" level. To the right of the slider are "Up" and "Down" buttons. At the bottom of the slider is a "Back" button. The bottom navigation bar contains buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Shoreline Distance
Close

GPSMAP 8612xsv 10

Farthest

Nearest

Near

Normal

Far

Farthest

Up

Down

Back

Engage Waypoints Info Home Menu Mark SOS

Vessel Settings: Auto Guidance Parameters



The screenshot shows the "Auto Guidance" settings menu on a GPSMAP 8612xsv device. The screen has a dark background with a diamond-patterned grid. At the top left, it says "Auto Guidance" and "Close". At the top center, it says "GPSMAP 8612xsv". At the top right, there are status icons for speed (21.2), a compass, a yellow warning triangle, signal strength, and cellular data. The settings are listed in a vertical stack on the right side:

- Preferred Depth: 18.0'
- Vertical Clearance: 18.0'
- Shoreline Distance: Farthest

At the bottom right, there is a "Back" button with a left-pointing arrow. At the very bottom, there is a navigation bar with several buttons: "Engage", "Waypoints", "Info", "Home" (which is highlighted), "Menu", "Mark", and "SOS" (with a red SOS icon).



If Auto Guidance will not engage for a specific route, then one of these parameters cannot be met

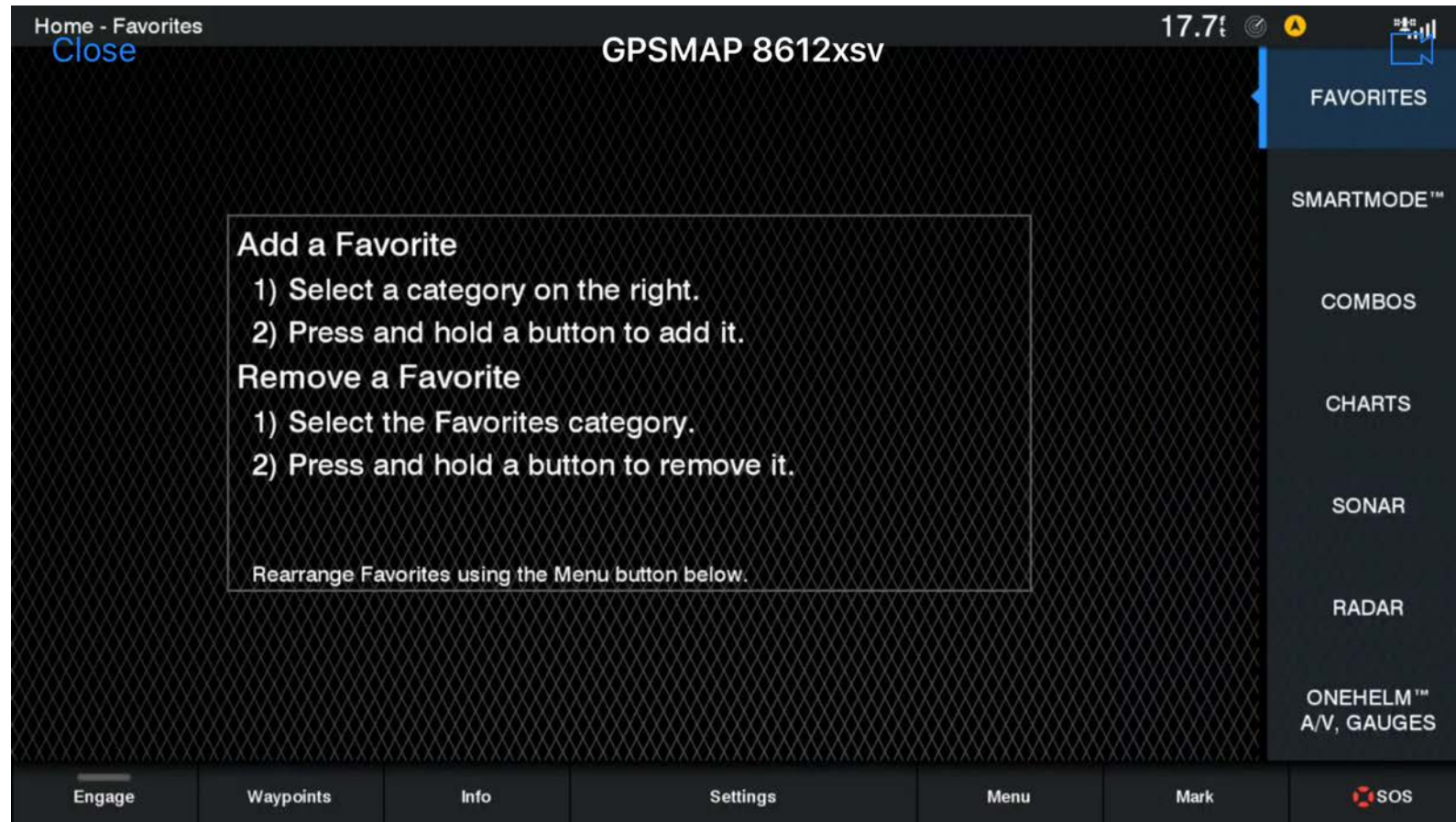
Are there any Questions?

Setting up the Favorites Tab

Setting up the Favorites Tab



The Favorites Tab is a customizable menu for quick access to your favorite chartplotter functions.



Setting up the Favorites Tab



Home - Favorites
Close

GPSMAP 8612xsv

17.7°

FAVORITES

SMARTMODE™

COMBOS

CHARTS

SONAR

RADAR

ONEHELM™
A/V, GAUGES

Add a Favorite

- 1) Select a category on the right.
- 2) Press and hold a button to add it.

Remove a Favorite

- 1) Select the Favorites category.
- 2) Press and hold a button to remove it.

Rearrange Favorites using the Menu button below.

Engage Waypoints Info Settings Menu Mark SOS

The screenshot shows the GPSMAP 8612xsv interface. At the top, it displays "Home - Favorites" with a "Close" button, the device name "GPSMAP 8612xsv", and a temperature of "17.7°". A vertical menu on the right side contains several options: "FAVORITES" (highlighted with a blue bar), "SMARTMODE™", "COMBOS", "CHARTS" (highlighted with a red box), "SONAR", "RADAR", and "ONEHELM™ A/V, GAUGES". In the center of the screen, a white box contains instructions for adding and removing favorites. At the bottom, there is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Settings", "Menu", "Mark", and "SOS".

Setting up the Favorites Tab



Home - Charts Close 17.8f

1

Nav. Chart Fishing Chart 3D Chart Fish Eye 3D

Press and hold

Radar Overlay

FAVORITES
SMARTMODE™
COMBOS
CHARTS
SONAR
RADAR

Favorite Added 2 OK

Engage Waypoints Info Settings Menu Mark SOS

Setting up the Favorites Tab



Home - Charts
Close

GPSMAP 8612xsv 17.8f

Nav. Chart Fishing Chart 3D Chart Fish Eye 3D

1 Radar Overlay
Press and hold

FAVORITES
SMARTMODE™
COMBOS
CHARTS
SONAR
RADAR

Favorite Added 2 OK

Engage Waypoints Info Settings Menu Mark SOS

The screenshot shows the GPSMAP 8612xsv interface. At the top, it displays 'Home - Charts' with a 'Close' button and 'GPSMAP 8612xsv' with a battery level of '17.8f'. Below this are four chart options: 'Nav. Chart', 'Fishing Chart', '3D Chart', and 'Fish Eye 3D'. A red box highlights the 'Radar Overlay' option, with a red '1' and the text 'Radar Overlay Press and hold' next to it. On the right side, a vertical menu is open, showing 'FAVORITES', 'SMARTMODE™', 'COMBOS', 'CHARTS' (which is highlighted with a blue bar), 'SONAR', and 'RADAR'. At the bottom, a 'Favorite Added' dialog box is displayed with an 'OK' button, marked with a red '2'. The bottom navigation bar contains 'Engage', 'Waypoints', 'Info', 'Settings', 'Menu', 'Mark', and 'SOS'.

Setting up the Favorites Tab



Home - OneHelm and Gauges Close GPSMAP 8612xsv 18.0! 🔔 📶

ActiveCaptain Vessel Media Video

VIRB® inReach® Autopilot YAMAHA

Engines **Fuel**

FAVORITES
SMARTMODE™
COMBOS
CHARTS
SONAR
RADAR
ONEHELM™
A/V, GAUGES

Engage Waypoints Info Settings Menu Mark SOS

2 **Press and hold**

1

Setting up the Favorites Tab



Home - OneHelm and Gauges Close 18.0 GPSMAP 8612xsv

Vessel

Press and hold

ActiveCaptain

VIRB®

Engines

Media

Autopilot

Fuel

Video

YAMAHA

FAVORITES

SMARTMODE™

COMBOS

CHARTS

SONAR

RADAR

ONEHELM™
A/V, GAUGES

Engage Waypoints Info Settings Menu Mark SOS

Setting up the Favorites Tab



When finished, your favorites tab can look like this example:



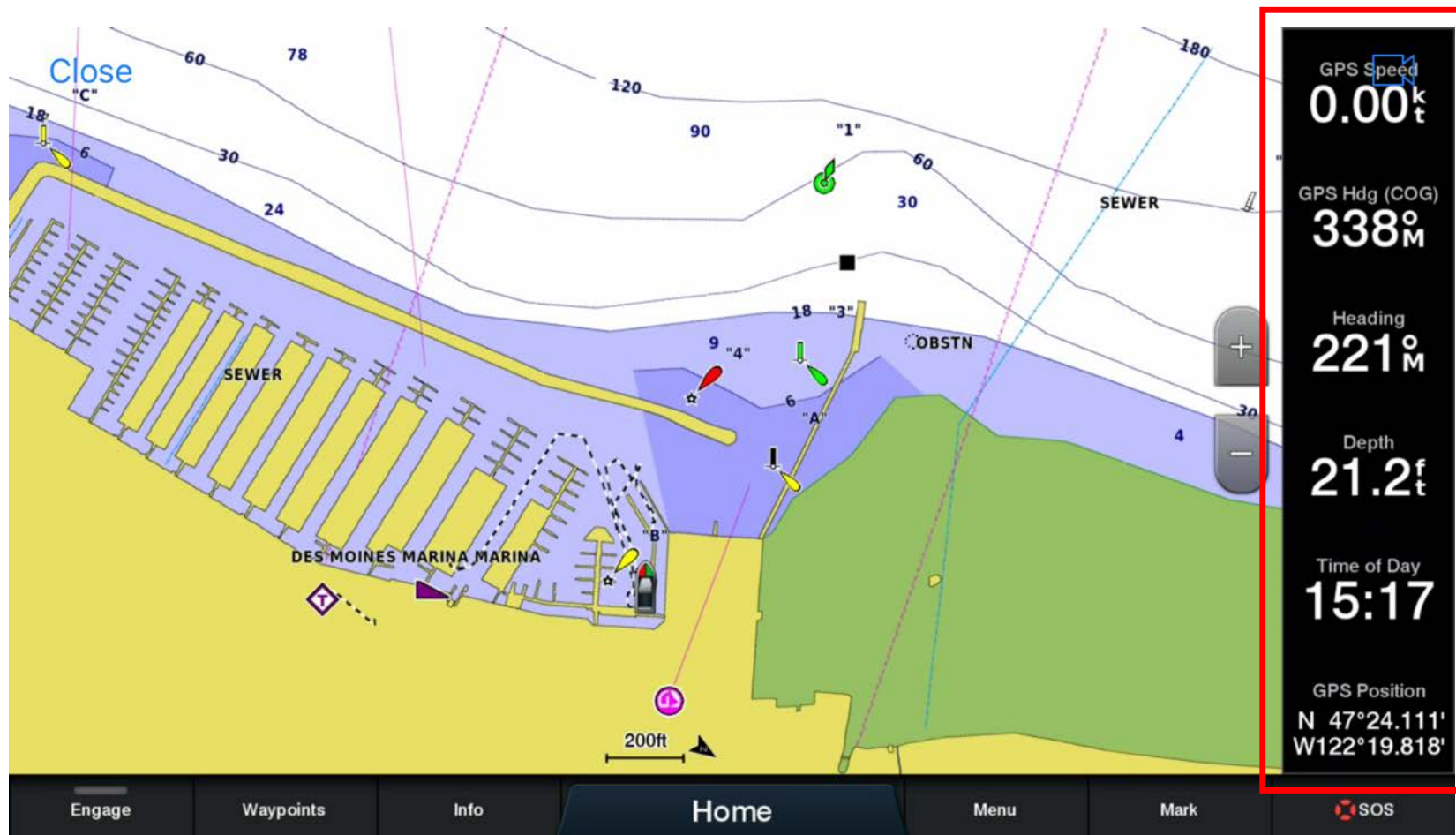
Setting up the Data Bar

Setting up the Data Bar

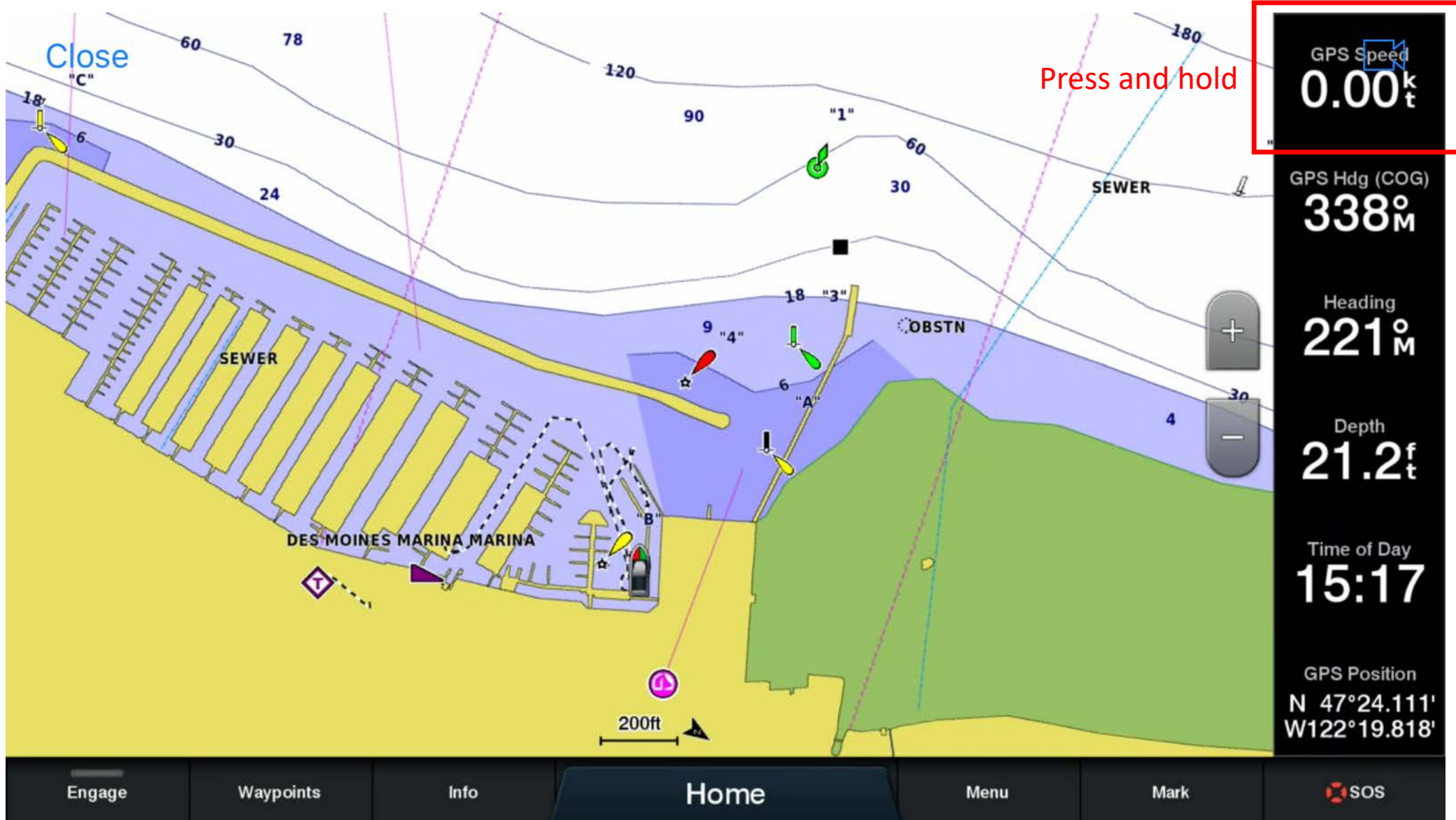


The Data Bar can be configured in several ways and can be different for each chart display. We will set up the bar with the Data elements that we most often use.

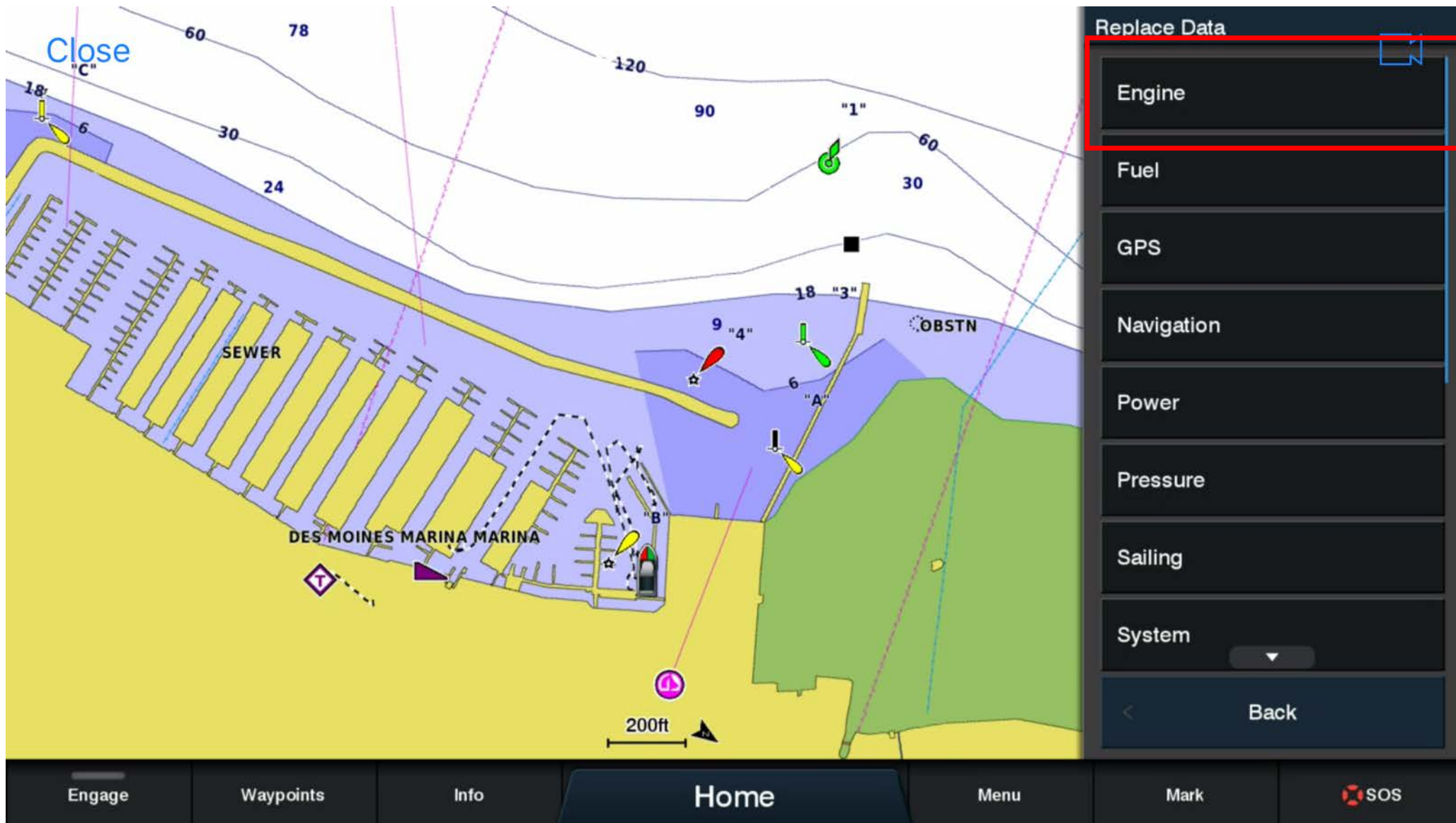
NOTE: to add any engine data, you will need to have your ignition turned to the on position



Data Bar: Coolant Temp



Data Bar: Coolant Temp



Data Bar: Coolant Temp



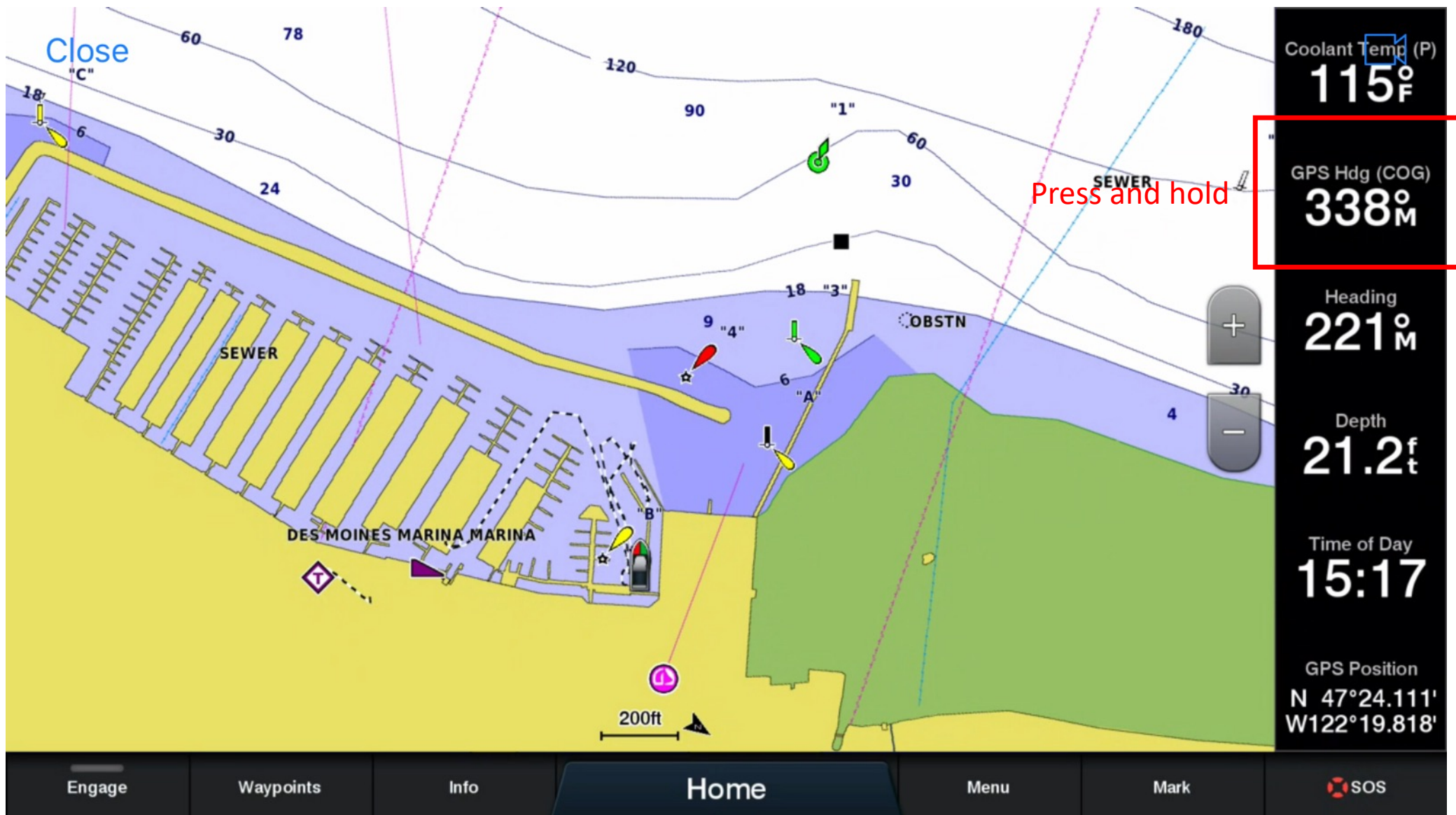
The screenshot displays a marine navigation application interface. On the left, a map shows the Des Moines Marina with various buoys and depth contours. A red line indicates a track or route. On the right, an 'Engine' data panel is visible, listing various engine parameters. The 'Coolant Temp' parameter is highlighted with a red rectangular box. At the bottom, a navigation bar contains buttons for 'Engage', 'Waypoints', 'Info', 'Home', 'Menu', 'Mark', and 'SOS'.

Engine Data Panel:

- Boost Pressure
- Coolant Pres.
- Coolant Level
- Coolant Temp**
- Exhaust Temp.
- Exhst. Manifold Temp. (L)
- Exhst. Manifold Temp. (R)
- Fuel Pressure

Map Labels: Close, 18, 6, 60, 78, 24, 30, 90, "1", 60, 30, SEWER, 9 "4", 18 "3", "A", OBSTN, DES MOINES MARINA MARINA, B, 200ft

Data Bar: Oil Pressure



Data Bar: Oil Pressure



The screenshot displays a marine navigation application interface. The main map area shows a marina with several slips, labeled "DES MOINES MARINA MARINA". A "SEWER" line is visible. Depth contours are marked with values such as 60, 78, 120, 90, 60, 30, 24, 18, and 6. A scale bar indicates 200ft. A "Close 'C'" button is in the top left. A "Replace Data" menu is open on the right, with a red box highlighting the "Engine" option. Other menu items include Fuel, GPS, Navigation, Power, Pressure, Sailing, and System. A "Back" button is at the bottom of the menu. The bottom navigation bar contains "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Close "C"

60 78 120 90 60 30 24 18 6

SEWER

DES MOINES MARINA MARINA

OBSTN

9 "4" 18 "3" 6 "A"

200ft

Replace Data

Engine

Fuel

GPS

Navigation

Power

Pressure

Sailing

System

Back

Engage Waypoints Info Home Menu Mark SOS

Data Bar: Oil Pressure

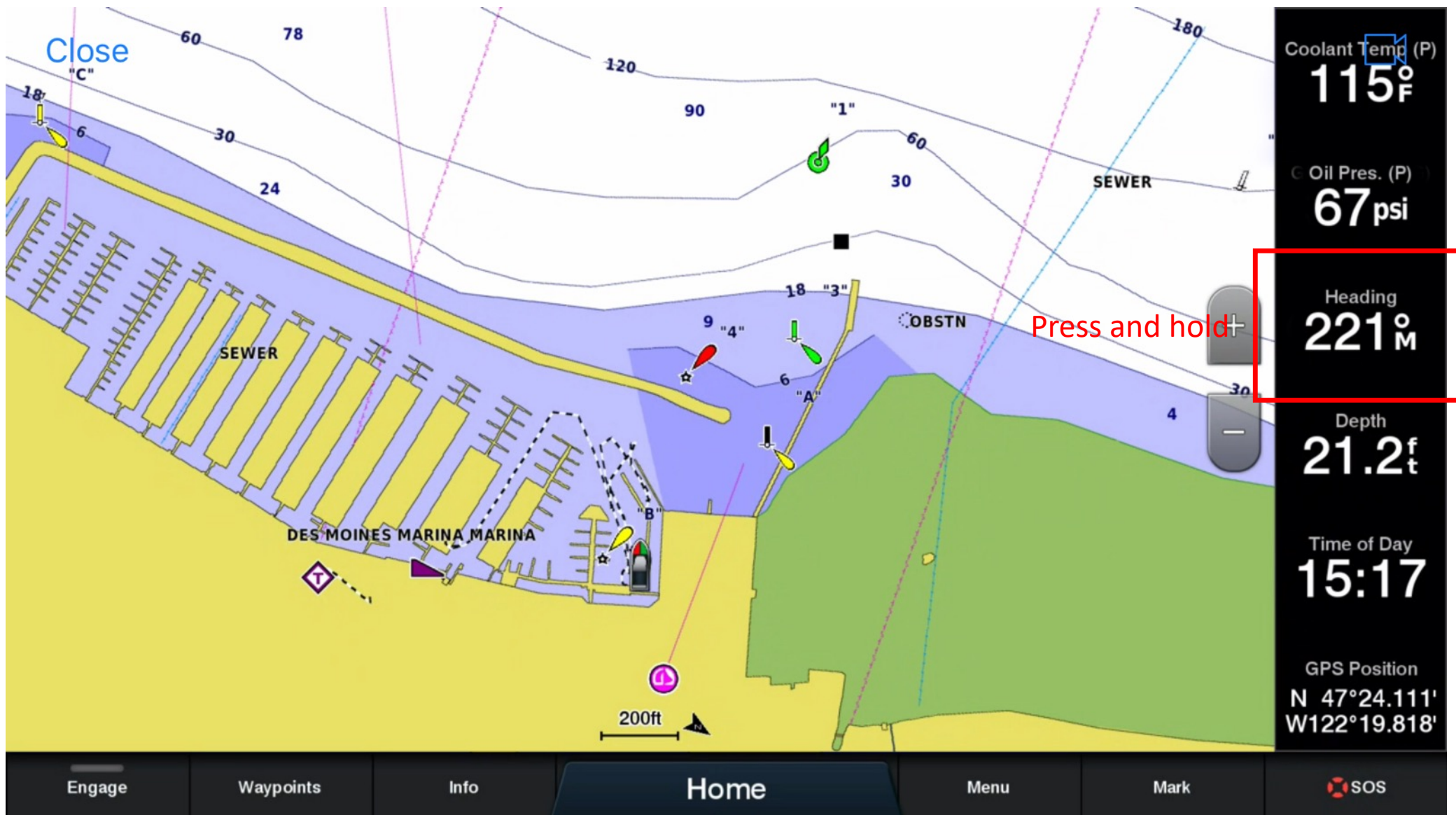


The screenshot displays a marine navigation application interface. On the left, a map shows the Des Moines Marina with various buoys and depth contours. A red box highlights the 'Oil Pressure' option in the 'Engine' data panel on the right. The data panel includes the following items:

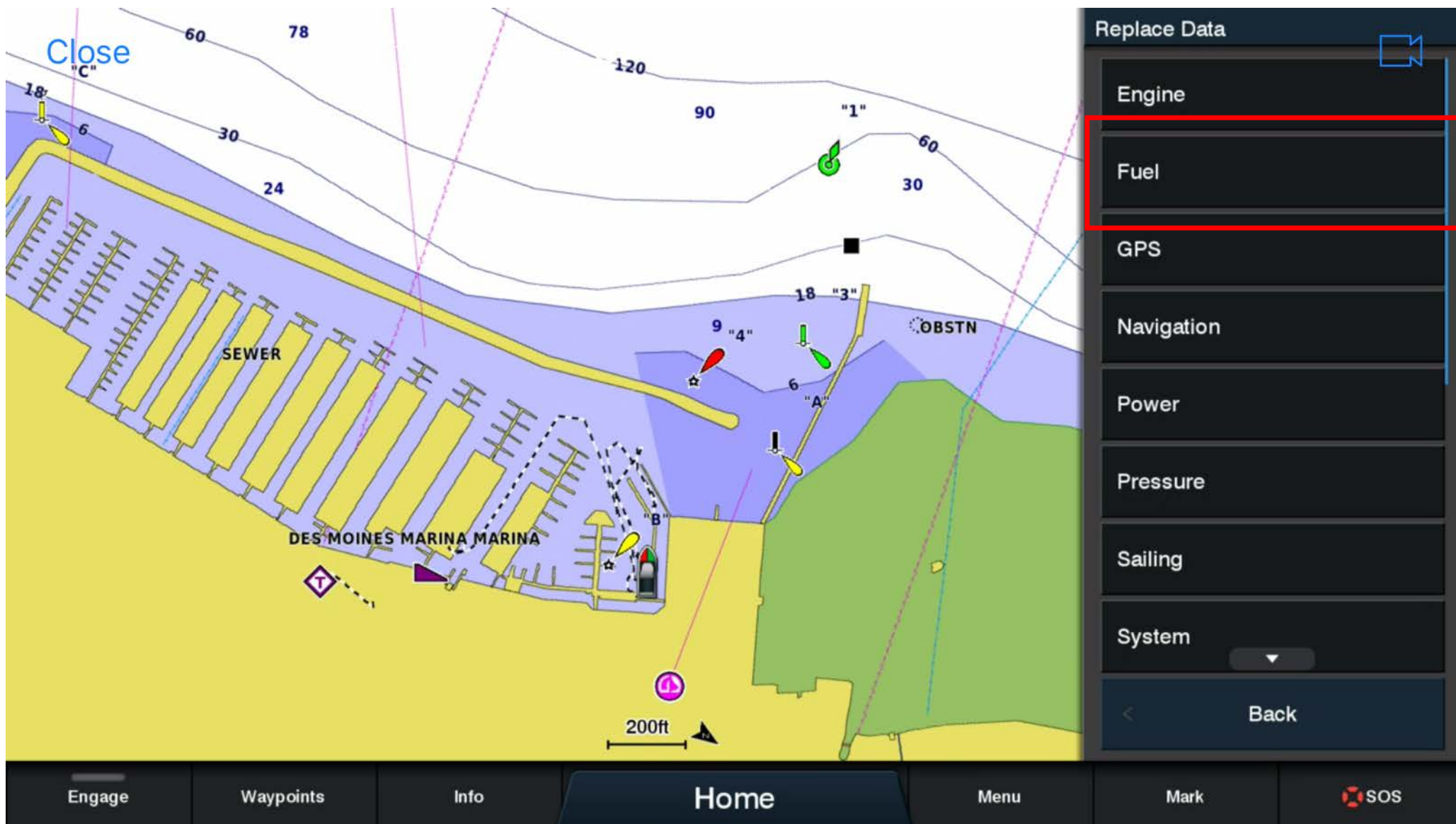
- Engine
- Fuel Flow Rate
- Fuel Temperature
- Hours
- Oil Pressure** (highlighted with a red box)
- Oil Temp.
- Oil Level
- Oil Filter Diff Pres
- Load Percent
- Back

The bottom navigation bar contains the following buttons: Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Data Bar: Total Fuel Economy



Data Bar: Total Fuel Economy



Data Bar: Total Fuel Economy



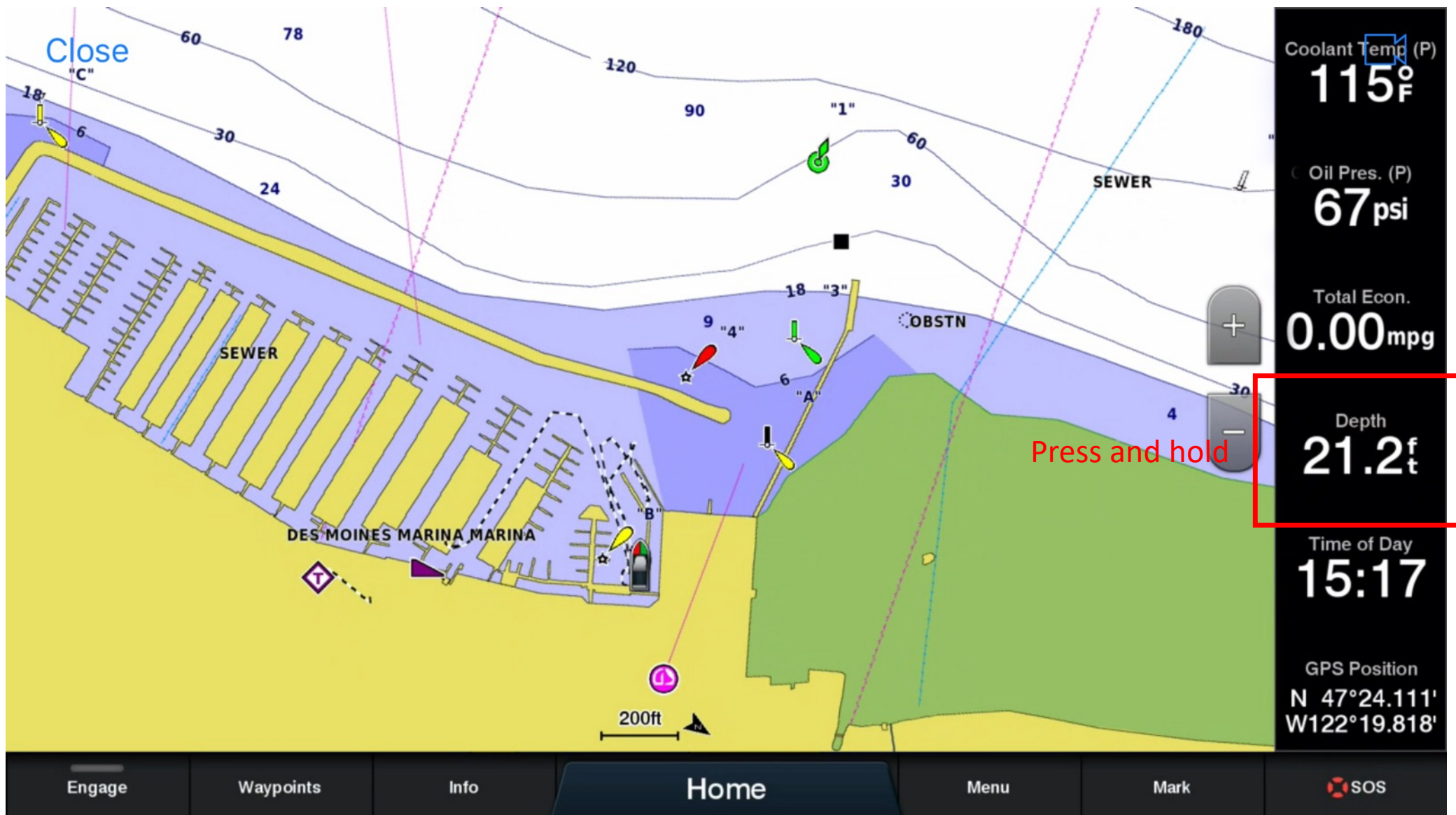
The screenshot displays a marine navigation software interface. On the left, a map shows the Des Moines Marina with various berths, a sewer line, and depth contours (60, 78, 90, 120, 30, 24, 18, 6). A 'Close' button is visible in the top left. The map includes labels for 'SEWER', 'DES MOINES MARINA MARINA', 'OBSTN', and a 200ft scale bar. On the right, a 'Fuel' data bar menu is open, listing several fuel-related metrics. The 'Total Fuel Economy' option is highlighted with a red box. At the bottom, a navigation bar contains buttons for 'Engage', 'Waypoints', 'Info', 'Home', 'Menu', 'Mark', and 'SOS'.

Fuel

- Engine Fuel Economy
- Total Fuel Economy**
- Total Fuel Flow Rate
- Fuel Flow Rate
- Fuel Temperature
- Tank Level
- Ttl. Fuel Remaining
- Vessel Range
- Back

Engage Waypoints Info Home Menu Mark SOS

Data Bar: Total Fuel Remaining



Data Bar: Total Fuel Remaining



The image displays a navigation software interface. On the left, a map shows a marina area with several yellow slips, a 'SEWER' label, and 'DES MOINES MARINA MARINA' text. Depth contours are marked with numbers like 60, 78, 120, 90, 60, 30, 24, 18, and 6. A 'Close "C"' button is visible in the top left. A scale bar indicates 200ft. On the right, a 'Replace Data' menu is open, listing various data sources: Engine, Fuel, GPS, Navigation, Power, Pressure, Sailing, and System. The 'Fuel' option is highlighted with a red rectangular border. At the bottom, a navigation bar contains buttons for Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

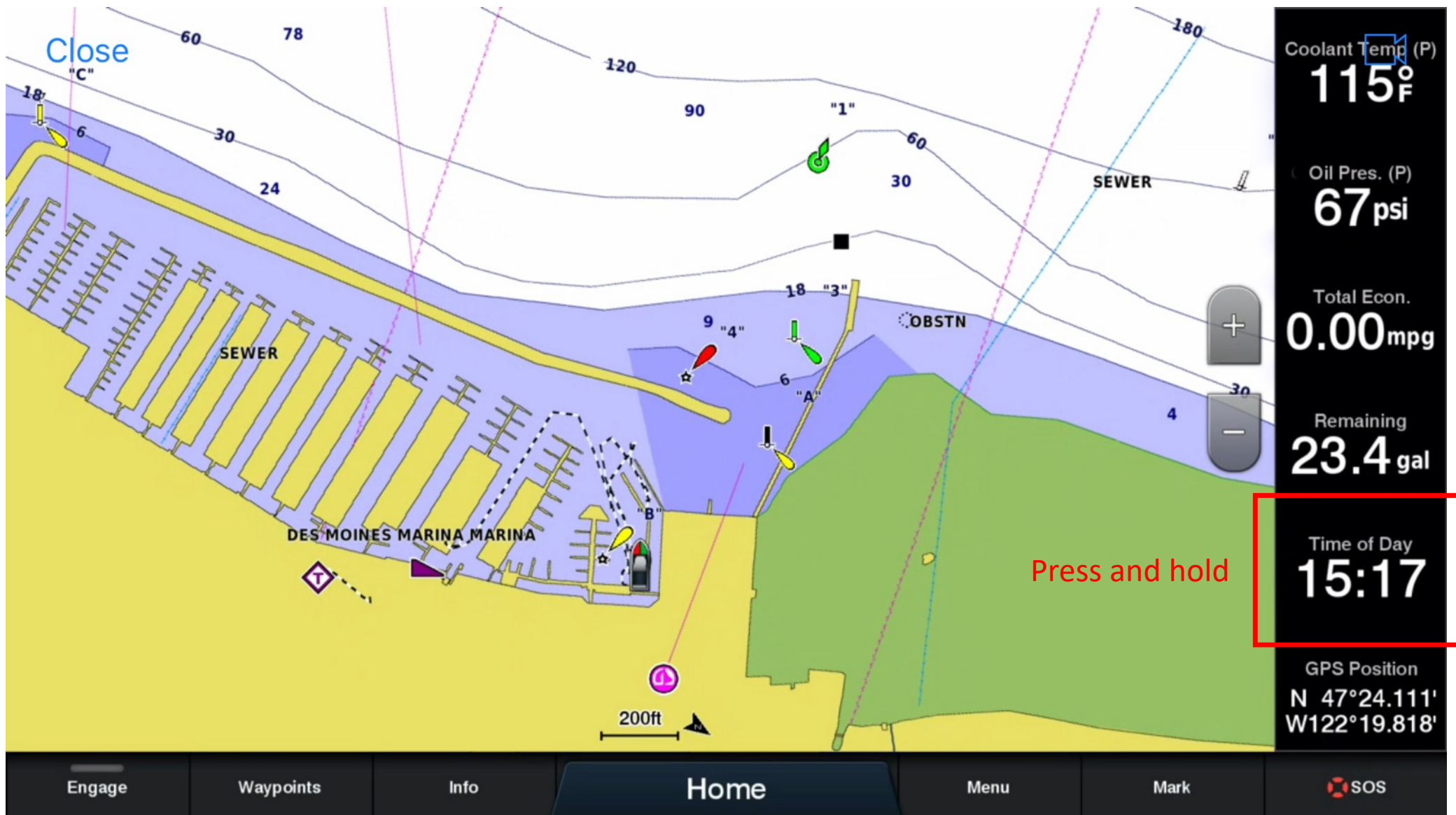
Data Bar: "Ttl. Fuel Remaining"



The screenshot displays a marine navigation software interface. On the left, a map shows the Des Moines Marina with various berths, a sewer line, and depth contours (60, 78, 90, 120, 30, 24, 18, 6). A vessel is positioned near the marina. On the right, a vertical data bar menu is open, listing various fuel-related metrics. The "Ttl. Fuel Remaining" option is highlighted with a red border. At the bottom, a navigation bar includes buttons for Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Metric
Engine Fuel Economy
Total Fuel Economy
Total Fuel Flow Rate
Fuel Flow Rate
Fuel Temperature
Tank Level
Ttl. Fuel Remaining
Vessel Range

Data Bar: GPS Speed



Data Bar: GPS Speed



The screenshot displays a marine navigation application interface. The main map area shows a marina with several slips, labeled "DES MOINES MARINA MARINA". A "SEWER" line is also visible. The map includes depth contours (60, 78, 120, 90, 60, 30, 24, 18) and various navigational markers such as "1", "3", "4", "A", "B", and "C". A scale bar indicates 200ft. A "Close 'C'" button is visible in the top left.

On the right side, there is a vertical "Data Bar" titled "Replace Data". The bar contains several data categories: Engine, Fuel, GPS, Navigation, Power, Pressure, Sailing, and System. The "GPS" category is highlighted with a red rectangular border. Below the "System" category is a "Back" button.

At the bottom of the screen, there is a navigation bar with the following buttons: Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Data Bar: GPS Speed



The image shows a nautical chart interface with a GPS data bar overlay on the right side. The chart displays depth contours (60, 78, 90, 120, 30, 24, 18, 6), a marina labeled "DES MOINES MARINA MARINA", a sewer line, and various navigational markers including "A", "B", "C", "1", "3", "4", and "OBSTN". A scale bar indicates 200ft. The GPS data bar includes the following items:

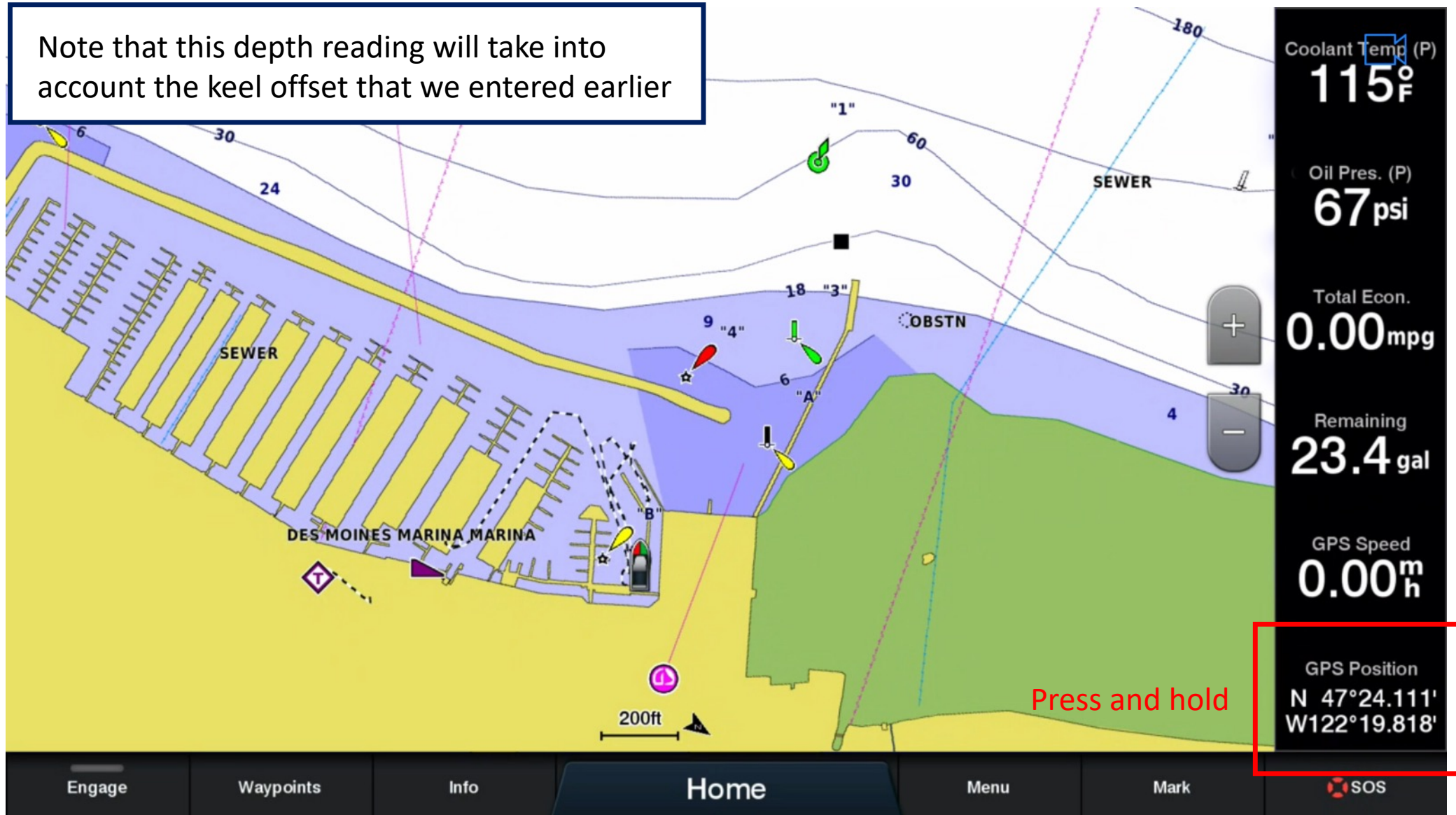
- GPS Elevation
- GPS Error
- GPS Heading (COG)
- GPS Position
- GPS Speed** (highlighted with a red box)
- Loran Position

At the bottom of the screen, there is a navigation bar with buttons for Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Data Bar: Depth



Note that this depth reading will take into account the keel offset that we entered earlier

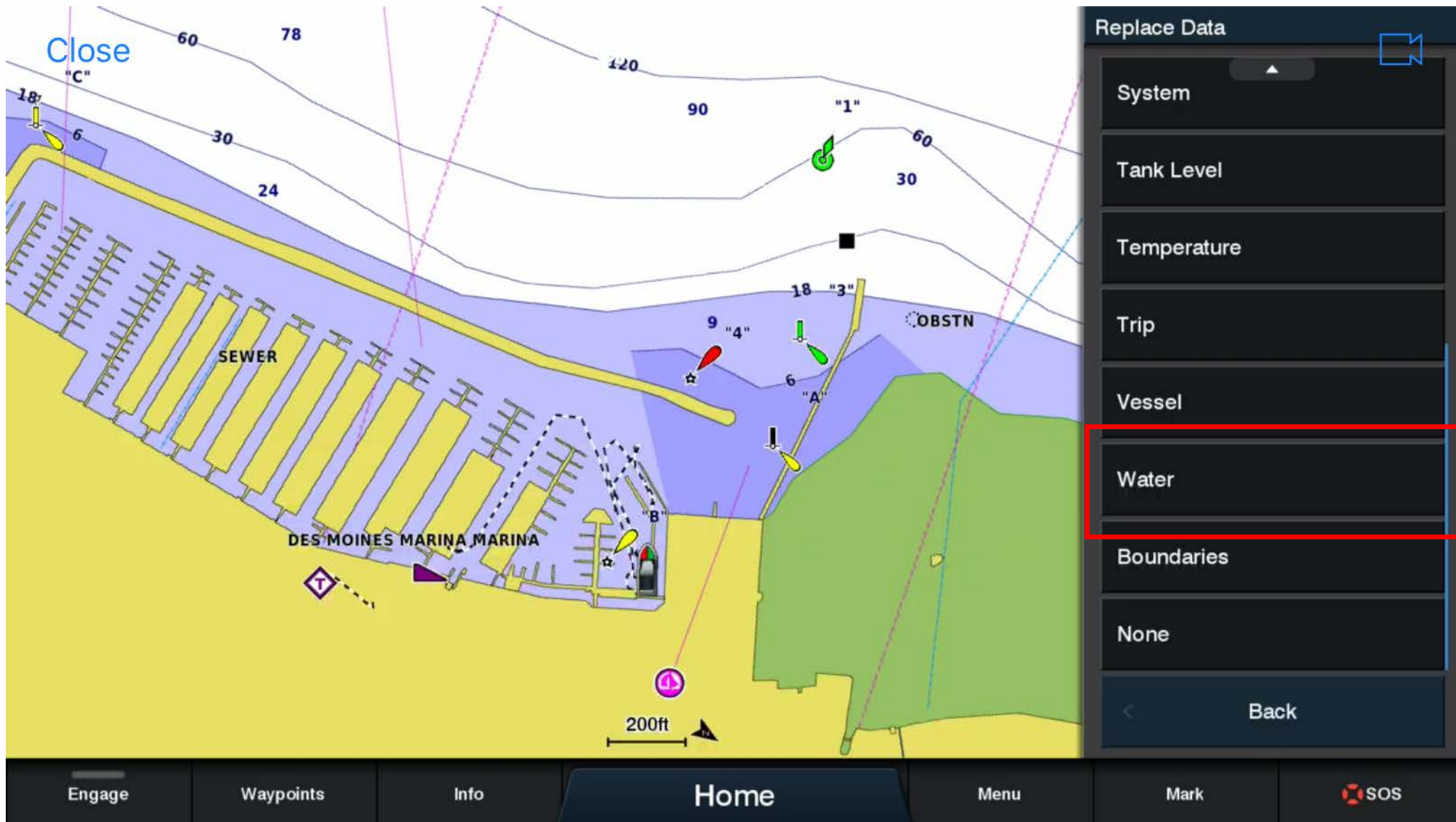


Data Bar: Depth



The screenshot displays a marine navigation application interface. The main map area shows a marina with several slips, labeled "DES MOINES MARINA MARINA". A "SEWER" line is also visible. Depth contours are shown with values such as 60, 78, 120, 90, 60, 30, 24, 18, 9, 6, and 18. A "Close 'C'" button is in the top left. A "200ft" scale bar and a north arrow are at the bottom center. A "Home" button is at the bottom center of the screen. A "Replace Data" panel is on the right, listing various data sources: Engine, Fuel, GPS, Navigation, Power, Pressure, Sailing, and System. The "System" option is highlighted with a red box, and a dropdown arrow is visible below it. A "Back" button is at the bottom of the panel. The bottom navigation bar includes "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

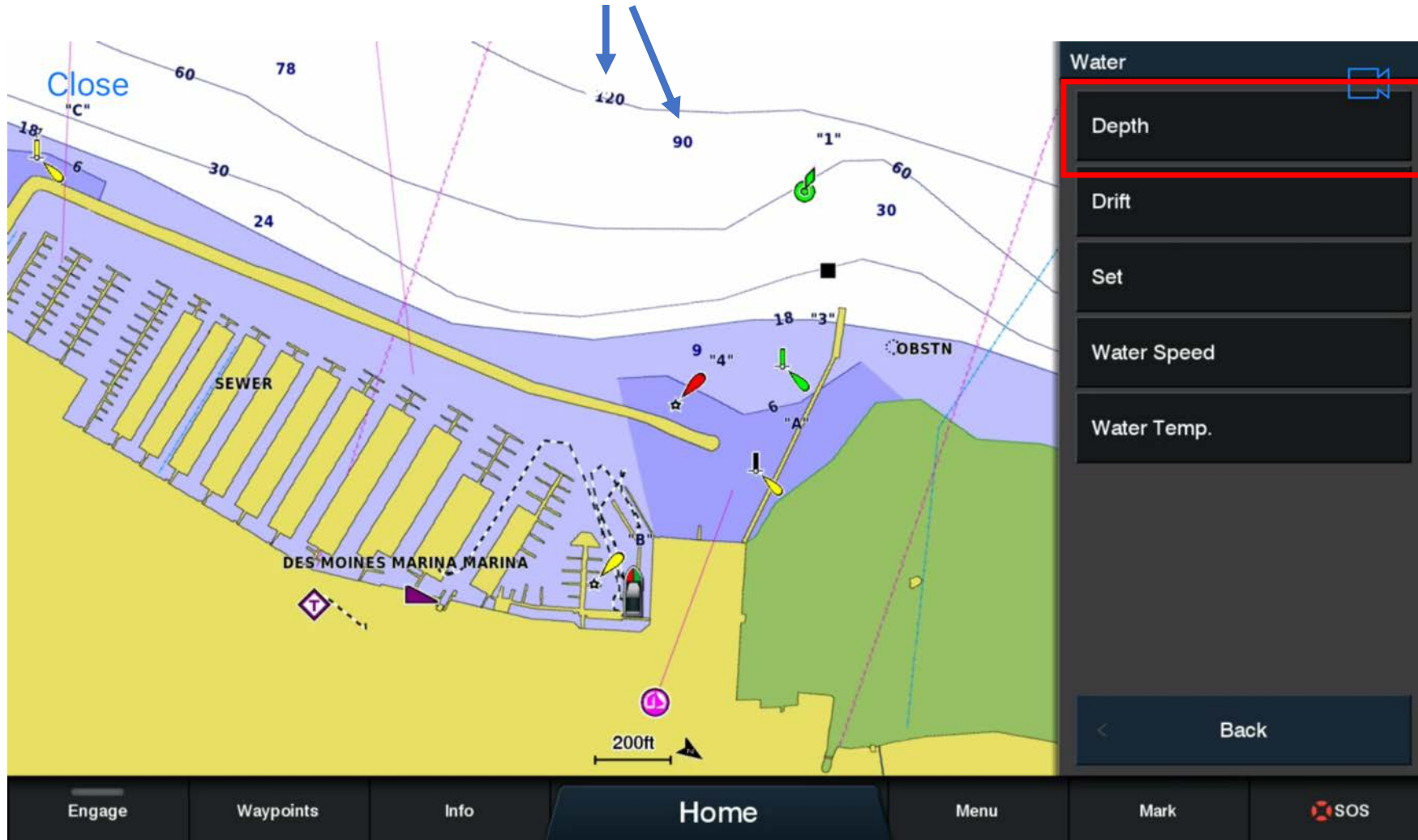
Data Bar: Depth



Data Bar: Depth



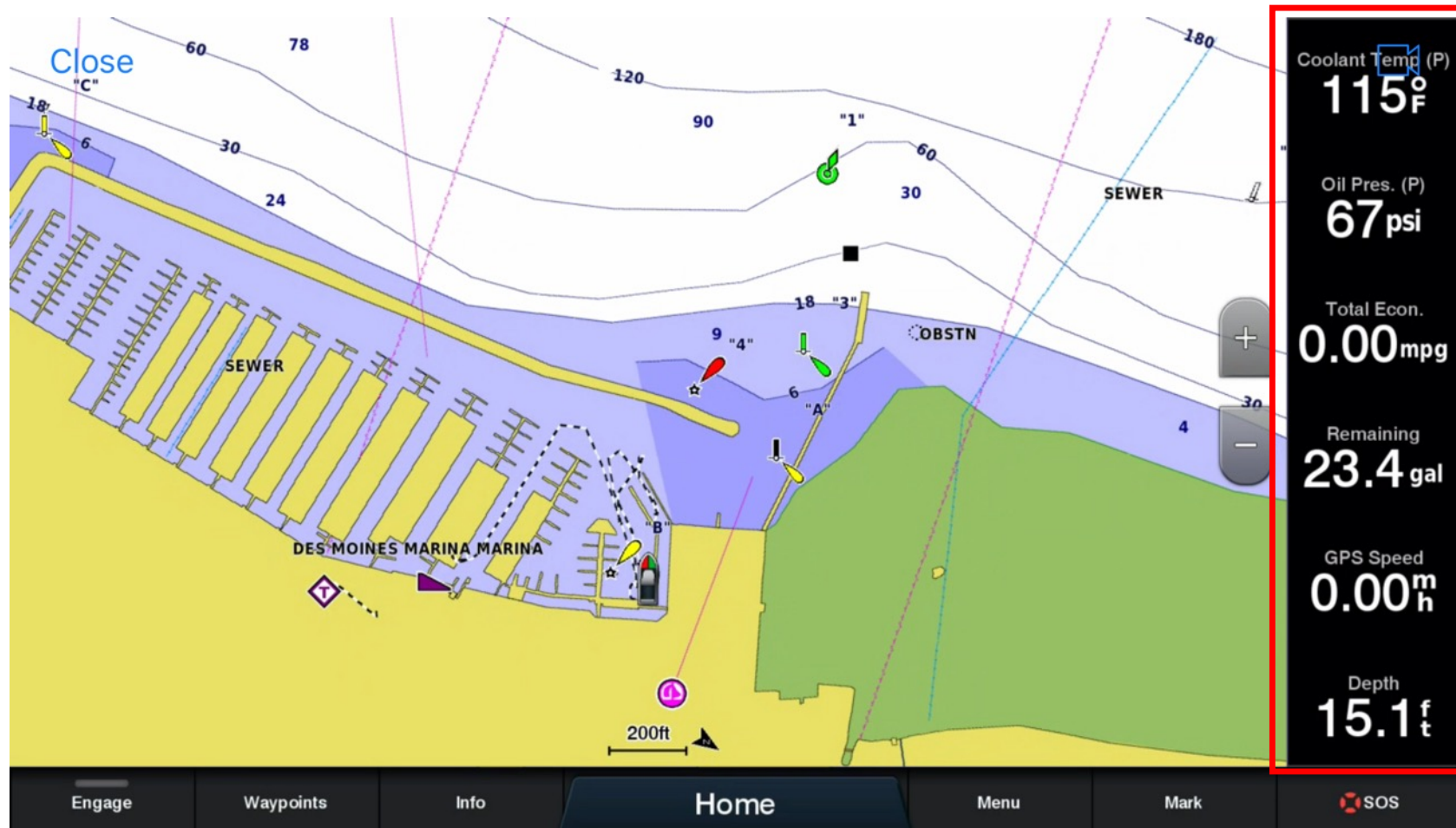
Note: The Garmin chart depth markings are always showing the median low tide in feet



Data Bar: You're all set!



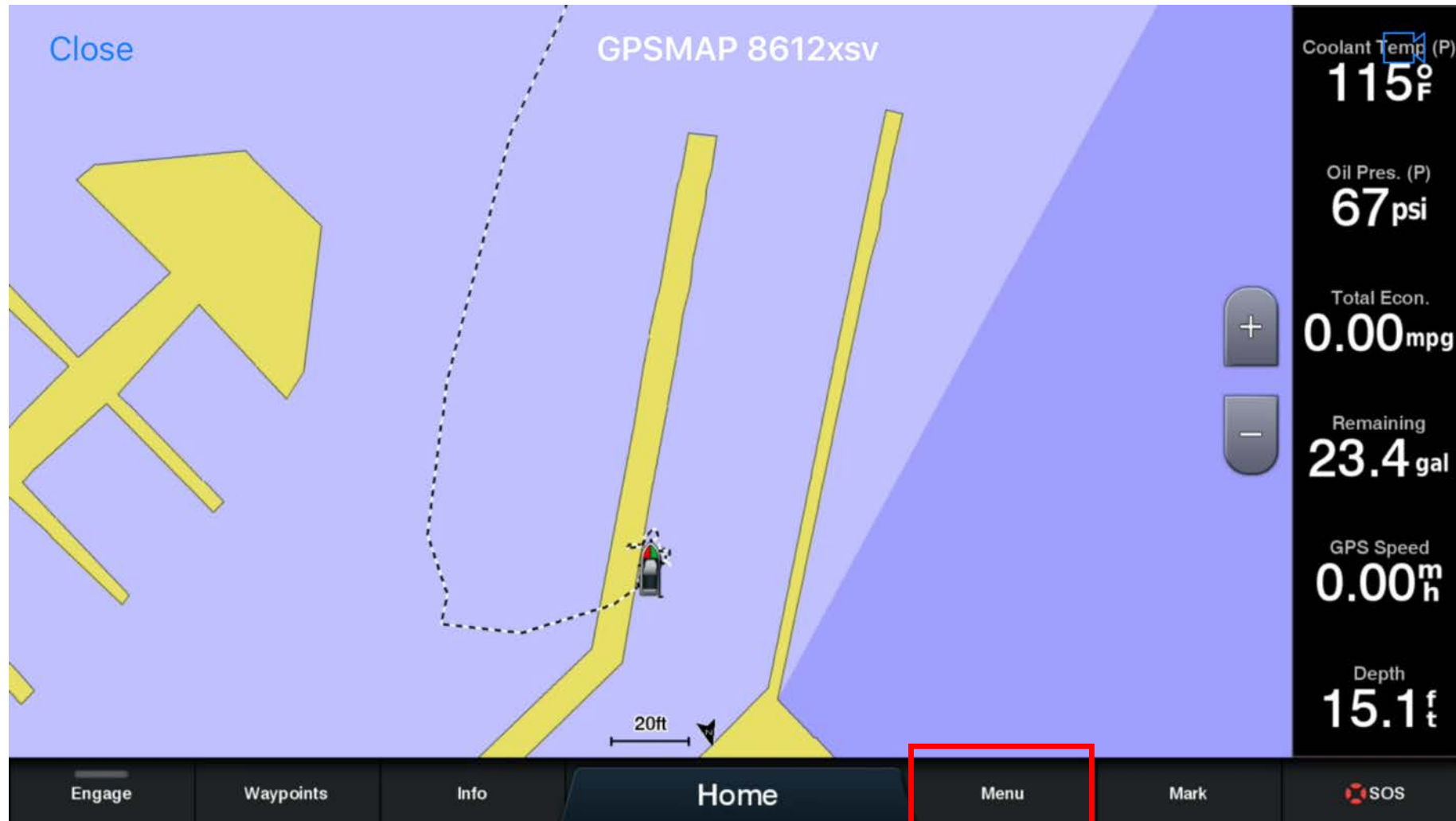
When finished, the data bar should look like this example. You can configure the data Bar in each chart (Nav. Chart, Radar, etc) with your preferred data



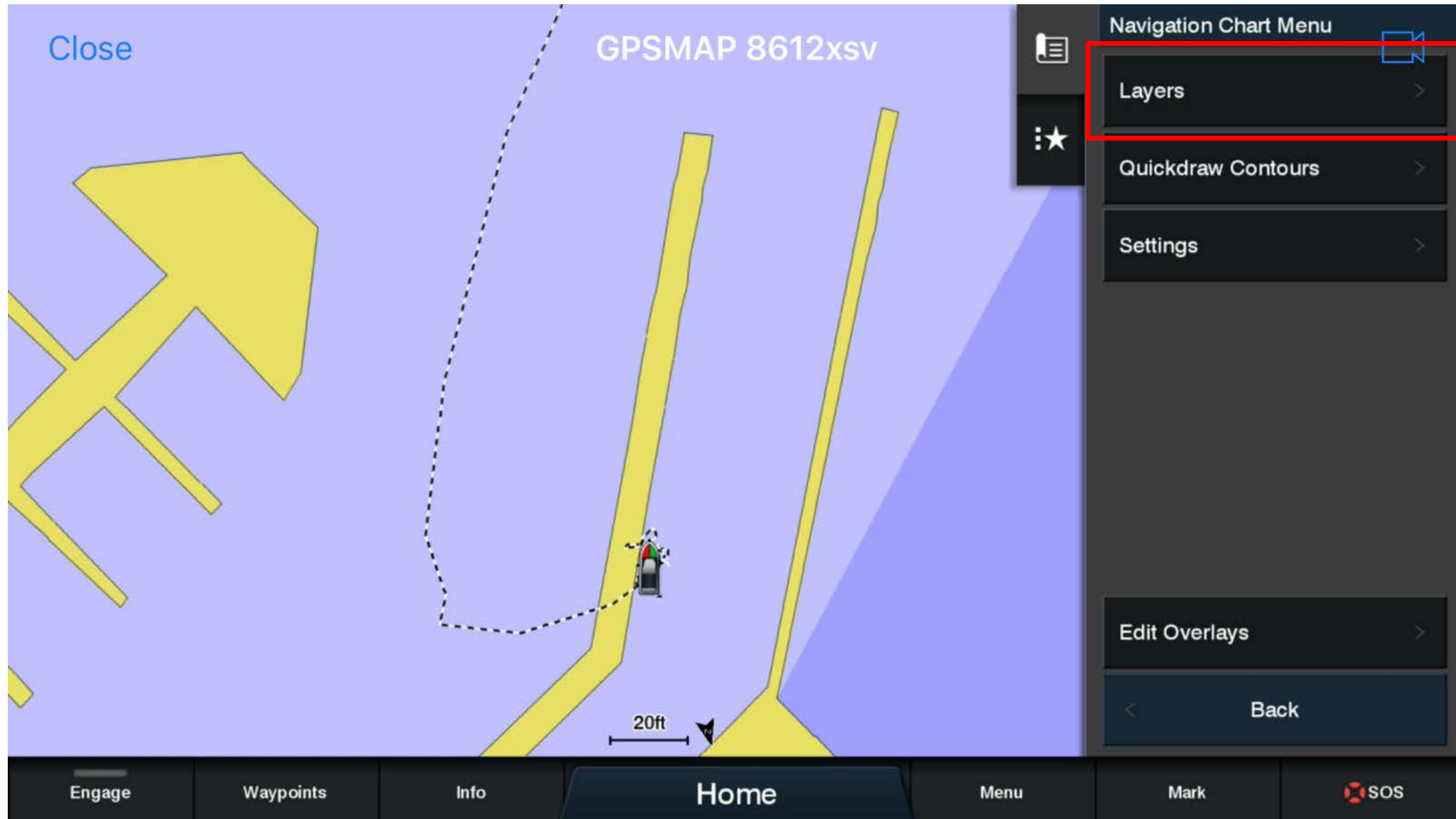
Feature: Animated Tides and Currents



Toggleing on/off Animated Tides and Currents



Feature: Animated Tides and Currents



Feature: Animated Tides and Currents



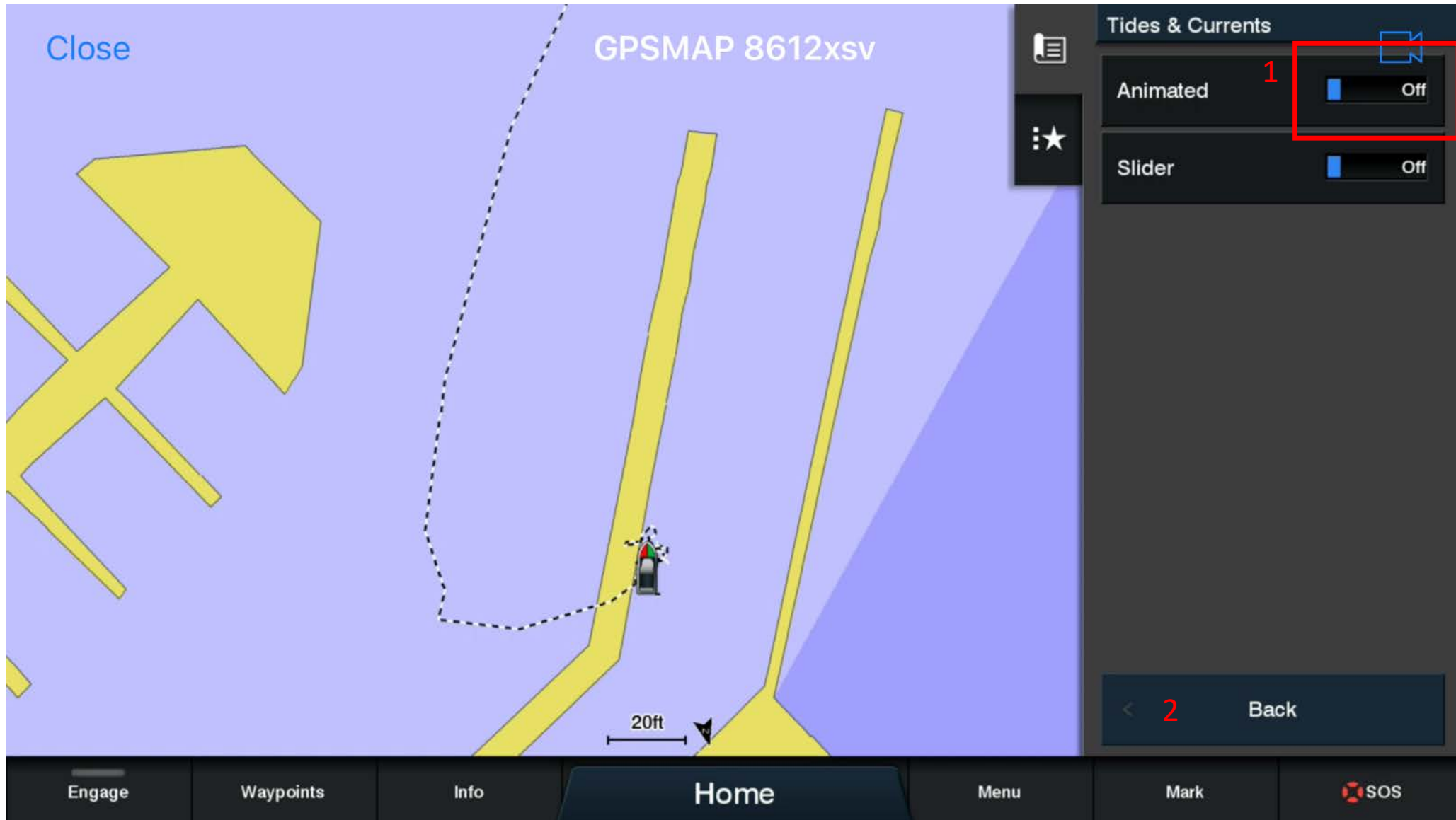
The screenshot displays the GPSMAP 8612xsv interface. The main map area shows a vessel icon on a blue background with yellow landmasses. A dashed line indicates a track or route. A scale bar at the bottom center shows 20ft. The 'Layers' menu on the right is open, listing various options: Chart, My Vessel, User Data, Other Vessels, Water, Quickdraw, and Radar. The 'Chart' option is highlighted with a red box. At the bottom of the screen, there is a navigation bar with buttons for Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Feature: Animated Tides and Currents

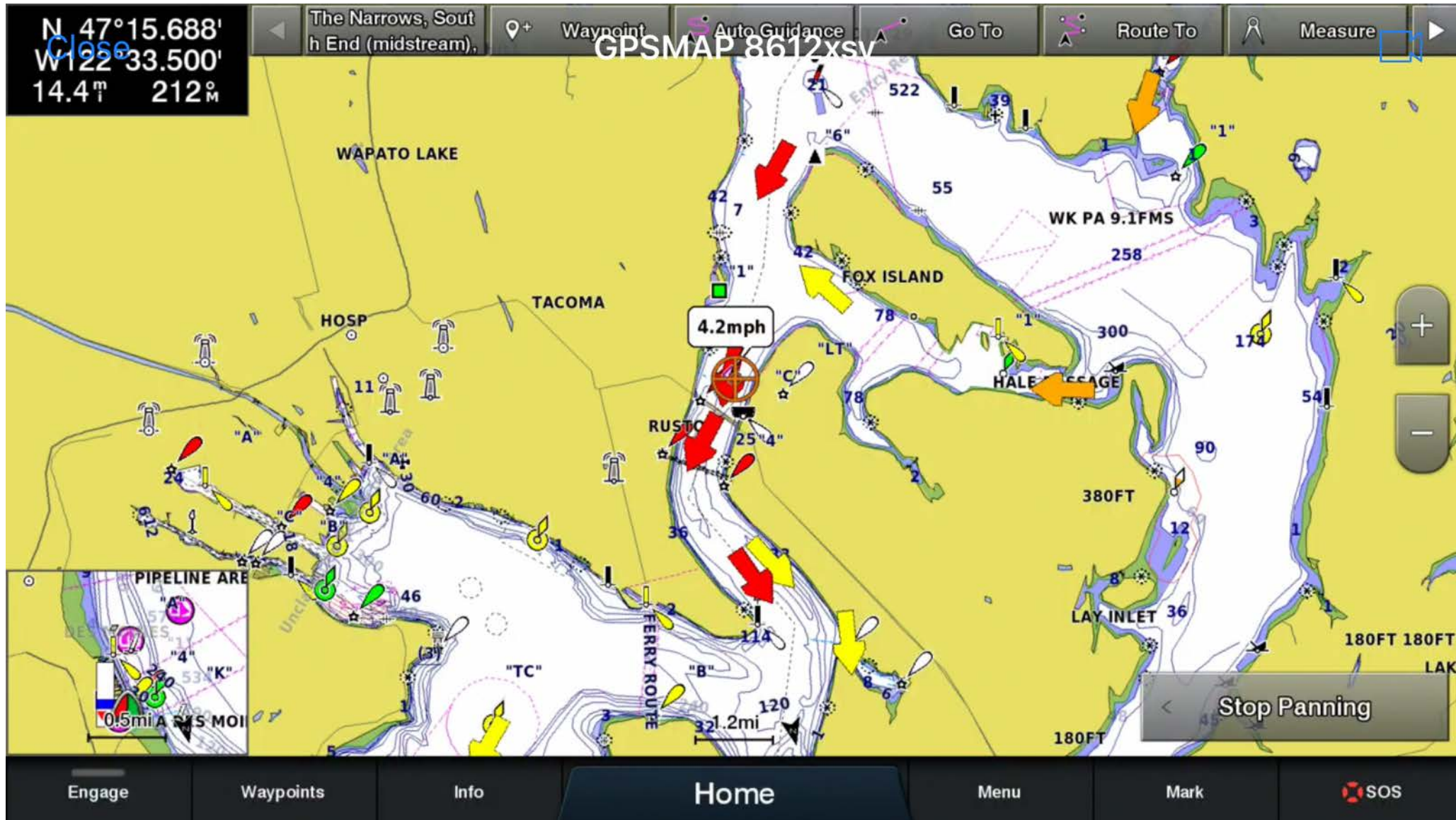


The screenshot displays a GPSMAP 8612xsv interface. The main map area shows a yellow landmass with a dashed line indicating a path or current. A scale bar at the bottom indicates 20ft. The right-hand side features a 'Chart Layers' menu with the following items: 'Tides & Currents' (highlighted with a red box and a blue refresh icon), 'Land POIs', 'Service Points', 'Navaid', 'Depth', and 'Restricted Areas'. A 'Back' button is located at the bottom of the menu. The bottom navigation bar includes buttons for 'Engage', 'Waypoints', 'Info', 'Home', 'Menu', 'Mark', and 'SOS'.

Feature: Animated Tides and Currents



Feature: Animated Tides and Currents





Are there any Questions?

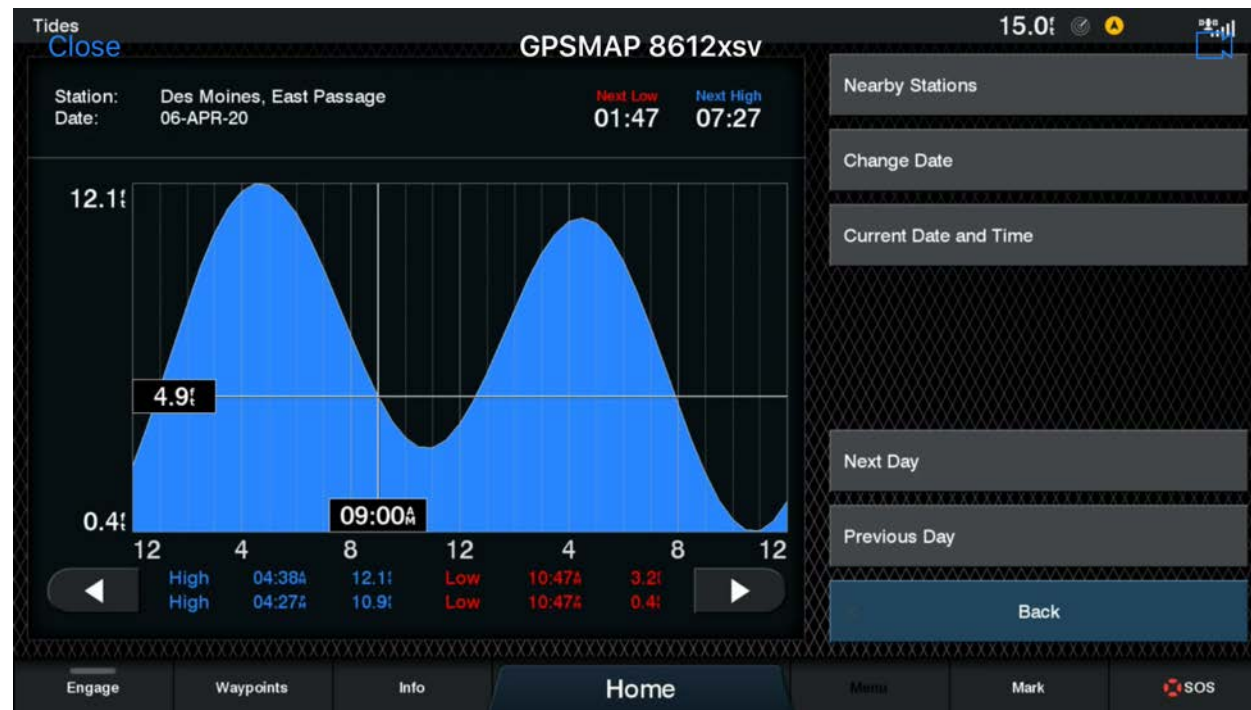
Feature: Tides and Currents

Basic Chartplotter Features



Now that we've learned how to configure some of the basic settings, let's look at some of the basic functionality of our Garmin Chartplotter

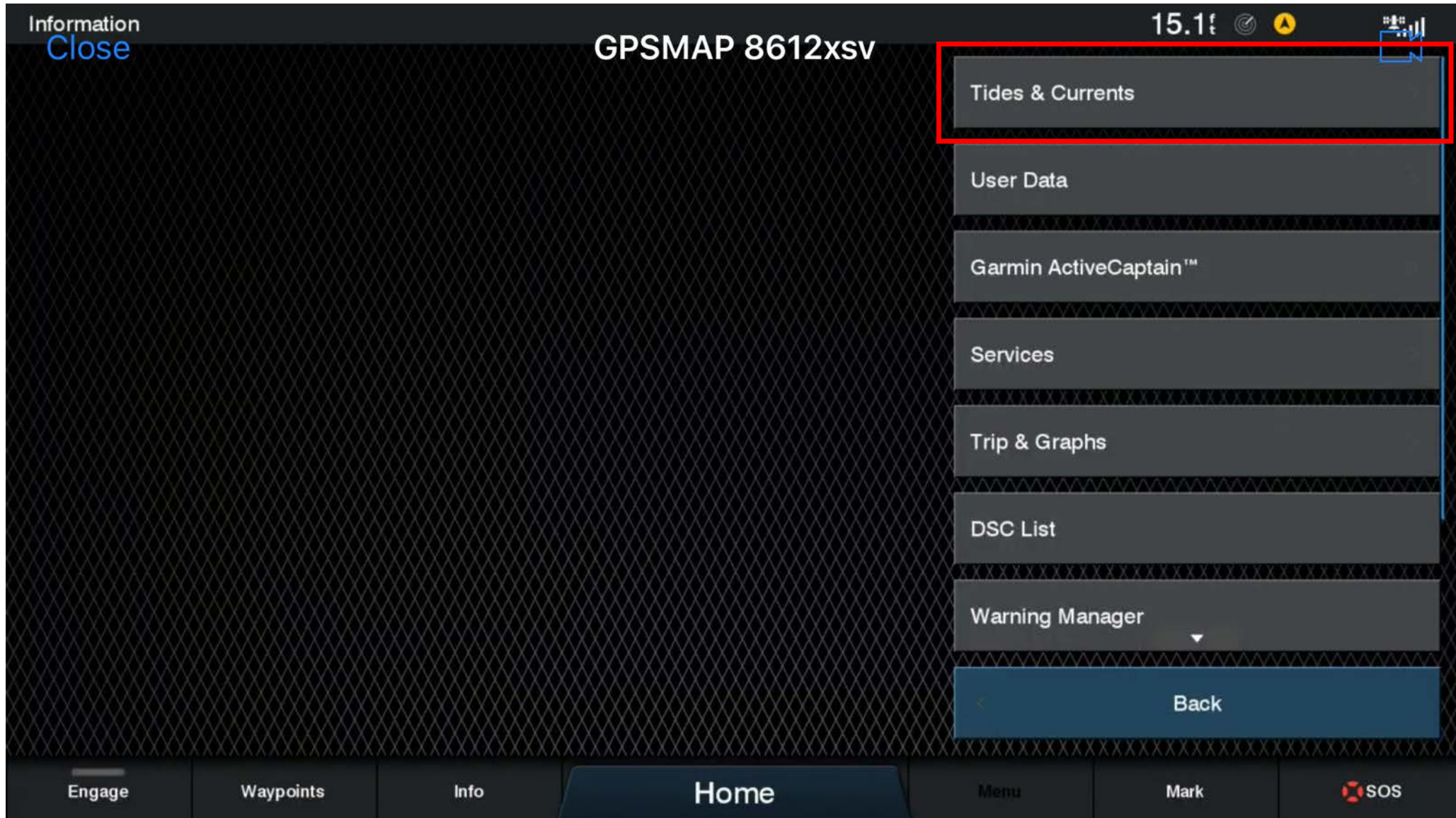
- **Tides and Currents**



Feature: Viewing Tides and Currents



Feature: Viewing Tides and Currents



Feature: Viewing Tides and Currents



A screenshot of the GPSMAP 8612xsv interface. The top left corner shows "Tides & Currents" with a "Close" button. The top center displays "GPSMAP 8612xsv". The top right corner shows "15.1f" and various status icons. A red rectangular box highlights a menu on the right side of the screen with three options: "Tides", "Currents", and "Celestial". At the bottom right, there is a "Back" button with a left-pointing arrow. The bottom of the screen features a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Feature: Viewing Tides and Currents



The screenshot shows a mobile application interface for viewing tides and currents. The title bar at the top reads "GPSMAP 8612xsv" and "15.0f". The main content area is titled "Tides" and includes a "Close" button. The station information is "Invalid Station" and the date is "06-APR-20". A large empty grid is intended for the tide data. A right-hand menu is visible, with the "Nearby Stations" option highlighted by a red box. Other menu options include "Change Date", "Current Date and Time", "Next Day", "Previous Day", and "Back". The bottom navigation bar contains "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Feature: Viewing Tides and Currents



Tides [Close](#) GPSMAP 8612xsv 15.0f

Station: Invalid Station
Date: 06-APR-20

Des Moines, East Passage 870 f
119 M

Burton, Quartermaster Hbr. (i... 5.41 n
250 M

Duwamish Waterway, Eighth... 8.02 n
347 M

Tahlequah, Neil Pt., Dalco Pas... 8.30 n
224 M

Point Vashon, Vashon Island 8.53 n
305 M

Tacoma, Commencement Bay... 8.78 n
187 M

Harper, Yukon Harbor 10.5 n
299 M

Back

Engage Waypoints Info Home Menu Mark SOS

Feature: Viewing Tides and Currents



Tides Close GPSMAP 8612xsv 15.0

Station: Des Moines, East Passage Next Low Next High
Date: 06-APR-20 01:47 07:27

Time	High	Low
04:38A	12.1	3.2
04:27M	10.9	0.4
10:47A		

Nearby Stations

Change Date

Current Date and Time

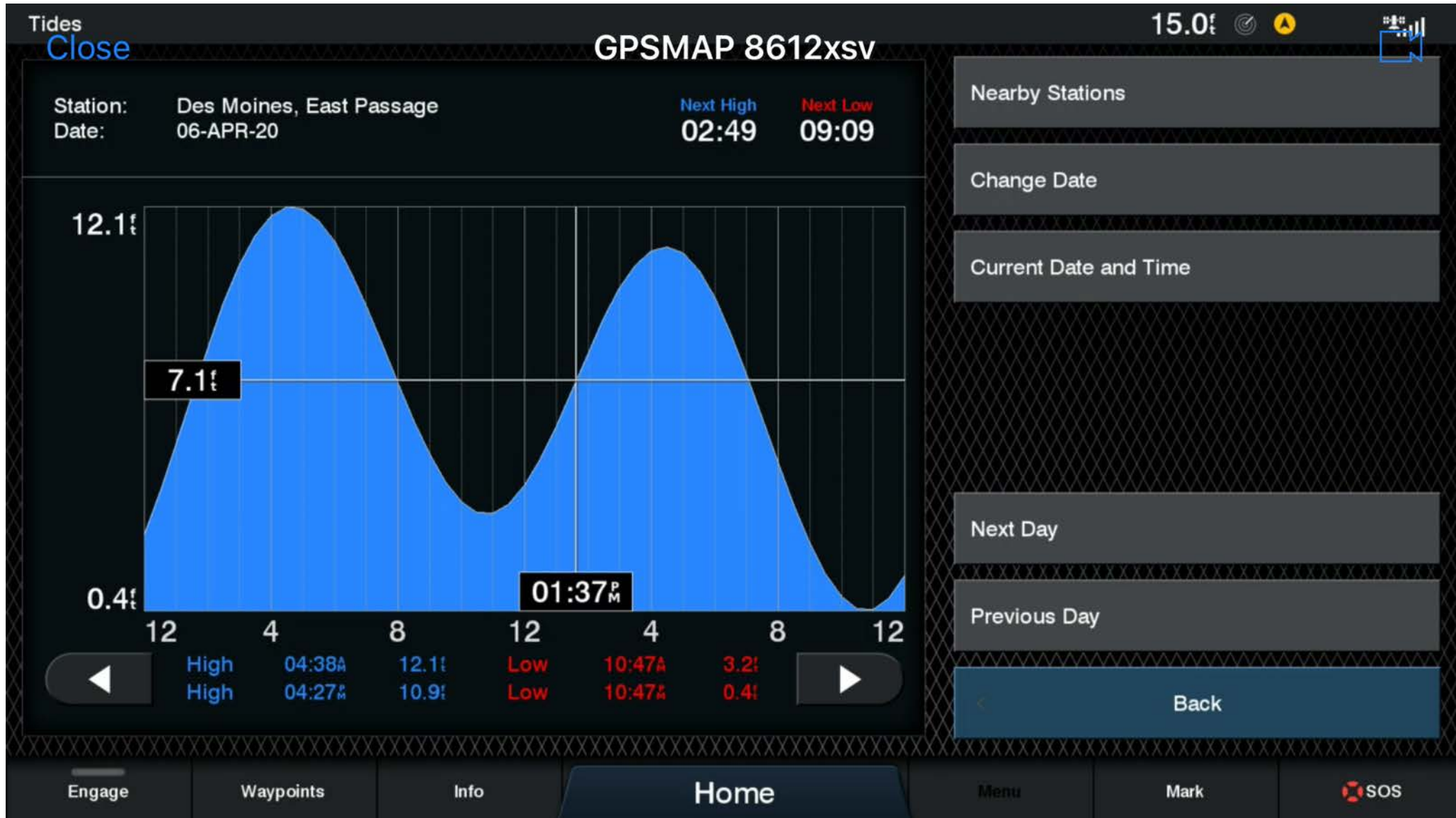
Next Day

Previous Day

Back

Engage Waypoints Info Home Menu Mark SOS

Feature: Viewing Tides and Currents



Feature: Viewing Tides and Currents



Tides Close GPSMAP 8612xsv 15.0%

Station: Des Moines, East Passage Next High 02:49 Next Low 09:09

Date: 06-APR-20

Time	High	Low
04:38A	12.1'	3.2'
04:27M	10.9'	0.4'
10:47A		
10:47M		

Nearby Stations

Change Date

Current Date and Time

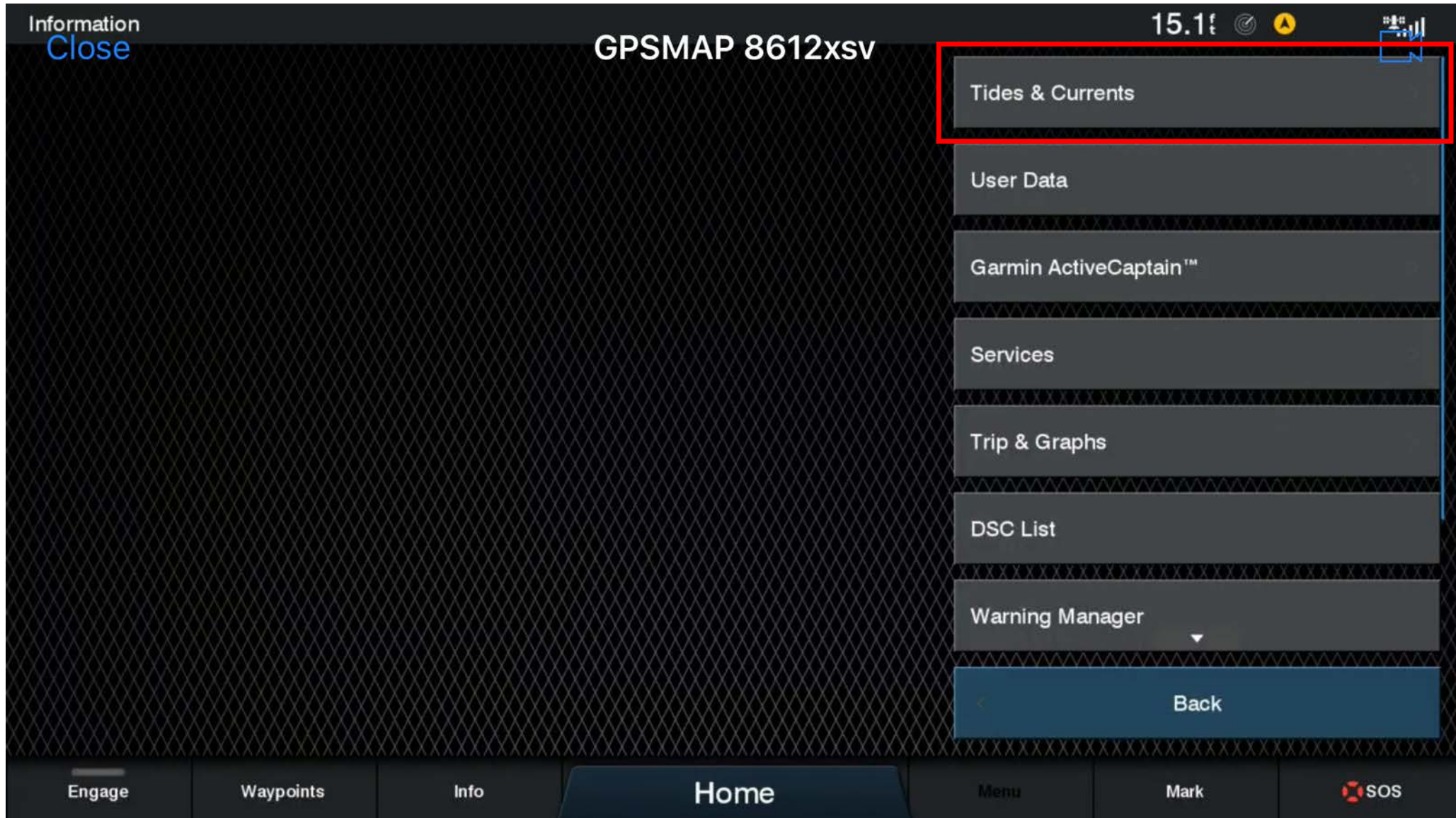
Next Day

Previous Day

Back

Engage Waypoints Info Home Menu Mark SOS

Feature: Viewing Tides and Currents



Feature: Viewing Tides and Currents



A screenshot of the GPSMAP 8612xsv interface. The top left corner shows "Tides & Currents" with a "Close" button. The top center displays "GPSMAP 8612xsv". The top right corner shows "15.1f" and various status icons. A menu is open on the right side, listing "Tides", "Currents", and "Celestial". The "Currents" option is highlighted with a red rectangular border. At the bottom right, there is a "Back" button with a left-pointing arrow. The bottom navigation bar includes "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Feature: Viewing Tides and Currents

A screenshot of the GPSMAP 8612xsv interface. The top left shows "Currents" with a "Close" button. The top center displays "GPSMAP 8612xsv". The top right shows a depth of "15.0f" and various status icons. The main area is divided into two empty graphs for tide and current data. On the right, a menu is open with the following options: "Nearby Stations" (highlighted with a red box), "Change Date", "Show Report", "Next Day", "Previous Day", and "Back". The bottom navigation bar includes "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Currents
Close

Station: Invalid Station
Date: 06-APR-20

GPSMAP 8612xsv

15.0f

Nearby Stations

Change Date

Show Report

Next Day

Previous Day

Back

Engage Waypoints Info Home Menu Mark SOS

Feature: Viewing Tides and Currents



Currents [Close](#) GPSMAP 8612xsv 15.0f

Station: Invalid Station
Date: 06-APR-20

Brown's Point, 1.6 mi North of 6.66ⁿ_m 213^o_M

Dolphin Point, 1.3 mi East of 7.08ⁿ_m 312^o_M

Point Richmond, East of Colv... 8.19ⁿ_m 244^o_M

Anderson Point, East of Colvo... 8.25ⁿ_m 270^o_M

Blake Island, S of 9.57ⁿ_m 303^o_M

The Narrows, North end, Was... 10.6ⁿ_m 222^o_M

The Narrows, North End (west... 10.9ⁿ_m 222^o_M

Back

Engage Waypoints Info Home Menu Mark SOS

Feature: Viewing Tides and Currents



Currents [Close](#) **GPSMAP 8612xsv** 15.0f

Station: Brown's Point, 1.6 mi North of
Date: 06-APR-20 Slack 01:42 Max. Flood 05:49

0.8ft
09:00A
-0.4ft
-0.3ft
12 4 8 12 4 8 12

360M
09:00A
0.0M
27.0M
12 4 8 12 4 8 12

[Nearby Stations](#)

[Change Date](#)

[Show Report](#)

[Next Day](#)

[Previous Day](#)

[Back](#)

Engage Waypoints Info Home Menu Mark SOS

Feature: Viewing Tides and Currents



Currents [Close](#) 15.1f

GPSMAP 8612xsv

Station:	Brown's Point, 1.6 mi North of	Slack	Max. Flood
Date:	06-APR-20	01:42	05:49
Max. Flood 02:23A	0.8f		219%
Slack Water 06:06A	0.0f		---
Max. Ebb 08:27A	-0.3f		027%
Slack Water 10:42A	0.0f		---
Max. Flood 02:49A	0.7f		219%
Slack Water 05:59A	0.0f		---
Max. Ebb 08:20A	-0.4f		027%
Slack Water 10:46A	0.0f		---

Nearby Stations

Change Date

Show Chart

Next Day

Previous Day

[Back](#)

EngageWaypointsInfoHomeMenuMark SOS

Feature: Viewing Tides and Currents



Currents [Close](#) **GPSMAP 8612xsv** 15.1f

Station: Brown's Point, 1.6 mi North of
Date: 06-APR-20 Slack 01:42 Max. Flood 05:49

Time	Height	Percentage
Max. Flood 02:23A	0.8f	219%
Slack Water 06:06A	0.0f	---
Max. Ebb 08:27A	-0.3f	027%
Slack Water 10:42A	0.0f	---
Max. Flood 02:49A	0.7f	219%
Slack Water 05:59A	0.0f	---
Max. Ebb 08:20A	-0.4f	027%
Slack Water 10:46A	0.0f	---

Nearby Stations

Change Date

Show Chart

Next Day

Previous Day

Back

Engage Waypoints Info **Home** Menu Mark SOS

Feature: Viewing Tides and Currents



Feature: Viewing Tides and Currents



The screenshot displays the GPSMAP 8612xsv interface. At the top left, a black box shows coordinates: N 48°24.386', W 122°38.332', 61.6_m, 333_M. A blue 'Close' button is next to it. The top menu bar includes 'Waypoint', 'Auto Guidance', 'Go To', 'Route To', 'Measure', and 'Information' (circled in red with a '2'). The map shows a yellow landmass with blue water, depth contours, and labels like 'BEN URE I', 'PASS I', and 'CANOE PASS'. A dashed line is labeled 'International Maritime Boundary' with a red '1' and a compass icon. A blue box with white text says 'Scroll over, pinch to zoom, then tap on a destination'. A red circle with a '2' highlights the 'Information' button. A 'Stop Panning' button is at the bottom right. The bottom bar has 'Engage', 'Waypoints', 'Info', 'Home', 'Menu', 'Mark', and 'SOS'.

Feature: Viewing Tides and Currents



The screenshot displays the GPSMAP 8612xsv interface. At the top left, a black box shows coordinates: N 48°24.386', W 122°38.332', with distances of 61.6 nautical miles and 333 meters. The main menu bar includes options like Waypoint, Auto Guidance, Go To, Route To, Measure, and Information. The map shows a nautical chart with depth contours, a red 'International Maritime Boundary' line, and various navigational markers. A red box highlights the 'Currents' option in the right-hand menu. Other menu items include 'Tides', 'Celestial', and 'Local Services'. A 'Back' button is visible at the bottom right. The bottom navigation bar contains 'Engage', 'Waypoints', 'Info', 'Home', 'Menu', 'Mark', and 'SOS'.

Feature: Viewing Tides and Currents






The screenshot displays a GPSMAP 8612xsv interface with a nautical chart. The top status bar shows coordinates: N 48°24.386', W 122°38.332', and depths of 61.6m and 333m. A 'Close' button is visible over the coordinates. The chart shows the International Maritime Boundary, Strawberry Island, and various depth contours. A list of waypoints is shown on the right, with 'Deception Pass' highlighted in a red box. The bottom navigation bar includes 'Engage', 'Waypoints', 'Info', 'Home', 'Menu', 'Mark', and 'SOS'.

Waypoint Name	Depth 1 (m)	Depth 2 (m)
Deception Pass...	0.17	249
Yokeko Point...	1.08	054
Skagit Bay, cha...	2.48	093
Burrows Bay, 0...	3.82	317
Deception Islan...	4.03	260
Burrows I.-Alla...	4.61	313
Skagit Bay, 1 m...	5.32	119

Feature: Viewing Tides and Currents



Currents [Close](#) 14.9f   

GPSMAP 8612xsv

Station: Deception Pass, Washington Slack: 00:31 Max. Flood: 03:13
Date: 06-APR-20

Time	Tide (ft)	Current (M)
12:00	6.4	0.0
04:00	0.0	255
08:00	-7.5	0.0
09:00	-7.5	0.0
12:00	6.4	0.0
04:00	0.0	255
08:00	-7.5	0.0
12:00	6.4	0.0

[Nearby Stations](#)

[Change Date](#)

Show Report

[Next Day](#)

[Previous Day](#)

[Back](#)

Engage Waypoints Info **Home** Menu Mark SOS

Feature: Viewing Tides and Currents



Currents Close GPSMAP 8612xsv 14.9f 📶 📶 📶

Station: Deception Pass, Washington Slack Max. Flood
Date: 06-APR-20 00:31 03:13

Time	Slack	Max. Ebb	Max. Flood
03:11A	0.0f		
06:00A		-7.5f	255f
09:31A	0.0f		
12:13A			075f
03:22A	0.0f		
06:15A		-7.5f	255f
09:31A	0.0f		

Nearby Stations

Change Date

Show Chart

Next Day

Previous Day

Back

Engage Waypoints Info Home Menu Mark SOS

Are there any Questions?



A blurred background image of a map, showing various geographical features and colors like yellow, green, and blue. A blue rounded rectangle is overlaid in the center, containing the text.

Feature: Route Creation

Feature: Route Creation



The screenshot displays the GPSMAP 8612xsv interface. At the top, a menu bar includes 'Waypoint', 'Auto Guidance' (highlighted with a red box), 'Go To', 'Route To', 'Measure', and 'Information'. A 'Close' button is visible over the coordinate display. The main map area shows a route with a yellow arrow pointing right, crossing an 'International Maritime Boundary' (indicated by a dashed line and a callout box). The map includes depth contours, labels for 'BEN URE I', 'STRAWBERRY I', 'PASS I', and 'CANOE PASS', and various navigational markers like 'OVHD PWR CABS AUTH CL 219.8FT'. A 'Stop Panning' button is located in the bottom right. The bottom navigation bar contains 'Engage', 'Waypoints', 'Info', 'Home', 'Menu', 'Mark', and 'SOS'.

Feature: Route Creation



Close

GPSMAP 8612xsv

Auto Guidance

- Hazard Review
- Adjust Path**

Cancel Auto Guidance

Start Navigation

Engage Waypoints Info Home Menu Mark SOS

Feature: Route Creation



Close "LT" BIG GULCH 594 384 6 6
GPSMAP 8612xsv INDIAN POINT 90
PUGET SOUND VESSEL TRAFFIC SERVICES AREA 132
576 NELSONS CORNER 10
WHIDBEY ISLAND GLENDOLE 90
MUKILTEO (3) 47
(5) 18 (3) 21
COLUMBIA BEDEER LAKE NOTE H (SEE LOWER ZOO MILLER LAKE
DARLINGTON Fishing Restricted "C" 42
CLINTON FERRY RANDALL POINT
EVERETT 132 423
OZ 546 504
RADIO TR 60 312
"AO" 378
"3" "5" "1"
ANTHONY'S LIGHTHOUSE
"2" 3 279
EVERETT 0 262
OBSTN FISH HAVEN (10)
"1" 78 5
SANDY POINT
"E" LANGLEY
0.5nm

Adjust Path

Touch the path to add points. Touch and drag to move points. Select Remove to remove the selected point.

20nm

Done

Engage Waypoints Info Home Menu Mark SOS

Feature: Route Creation



Close "LT" BIG GULCH 594 384 6 6
GPSMAP 8612xsv INDIAN POINT 90
PUGET SOUND VESSEL TRAFFIC SERVICES AREA 132
576 NELSONS CORNER 10
MUKILTEO 90
WHIDBEY ISLAND GLENDOLE 47
COLUMBIA BEDEER LAKE 18 (3) 21
NOTE H (SEE LOWER ZOO MILLER LAKE
EVERETT DARLINGTON Fishing Restricted 546
FERRY ROUTE "C" CLINTON FERRY RANDALL POINT
CABLE AREA 42
OZ 504
RADIO TR 312 423
"AO" 378
"3" "1" 420
ANTHONY'S LIGHTHOUSE "2" 180 42 5
OBSTN FISH HAVEN (10)
SANDY POINT "E" LANGLEY
EVERETT 0 279 300 (23) 0 0.5nm 262

Adjust Path
Touch the path to add points. Touch and drag to move points. Select Remove to remove the selected point.

Remove

Done

Engage Waypoints Info **Home** Menu Mark SOS

Feature: Route Creation



Close

GPSMAP 8612xsv

PUGET SOUND VESSEL TRAFFIC SERVICES AREA

INDIAN POINT

WHIDBEY ISLAND GLENDOLE

COLUMBIA BEDEER LAKE

NOTE H (SEE LOWER ZOO MILLER LAKE

MUKILTEO

NELSONS CORNER

MUKILTEO

DARLINGTON

FERRY ROUTE

Fishing Restricted

EVERETT

OBSTN FISH HAVEN

CABLE AREA

CLINTON FERRY

RANDALL POINT

SANDY POINT

LANGLEY

ANTHONY'S LIGHTHOUSE

0.5nm

20nm

Adjust Path

Touch the path to add points. Touch and drag to move points. Select Remove to remove the selected point.

Remove

Done

Engage Waypoints Info Home Menu Mark SOS

Feature: Route Creation



The screenshot shows a GPSMAP 8612xsv navigation interface. The main map area displays a pink route through a waterway, with various navigational markers and depth contours. The right sidebar contains an 'Auto Guidance' panel with the following options:

- Hazard Review
- Adjust Path
- Cancel Auto Guidance
- Start Navigation (highlighted with a red box)

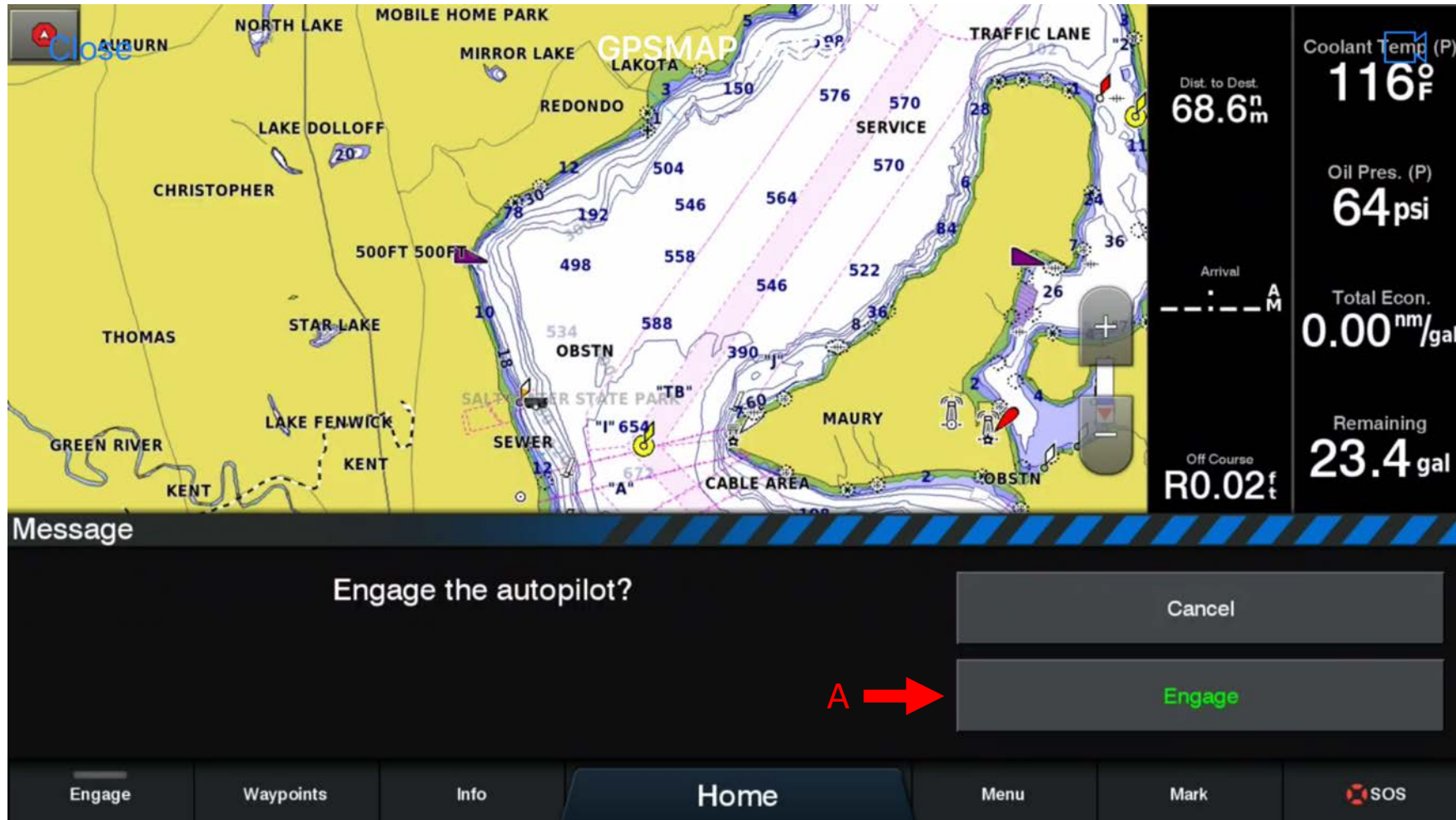
The bottom navigation bar includes the following options:

- Engage
- Waypoints
- Info
- Home
- Menu
- Mark
- SOS

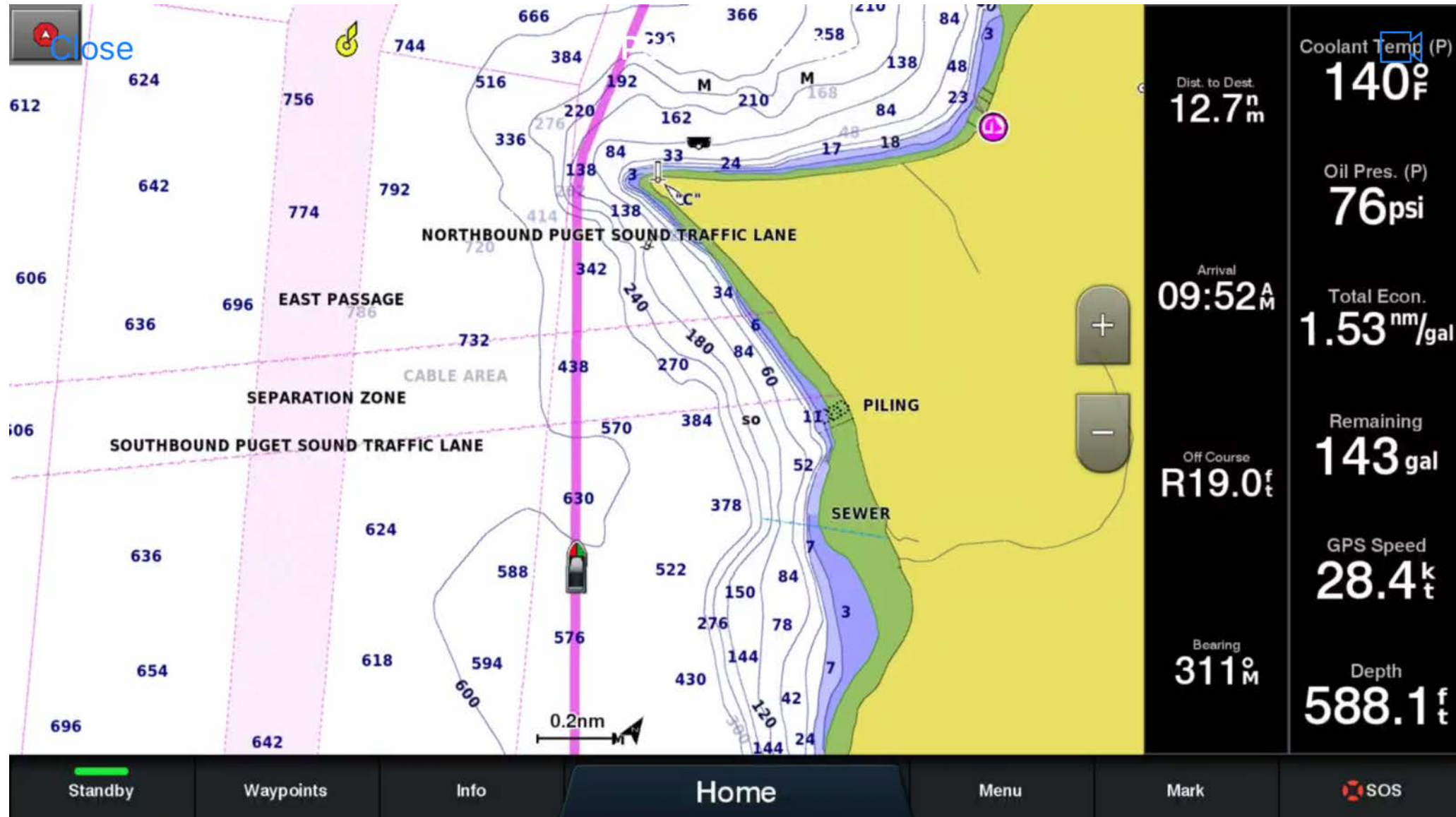
Feature: Route Creation



A. Pressing "Engage" on the chartplotter after exiting the marina will engage the autopilot on the route



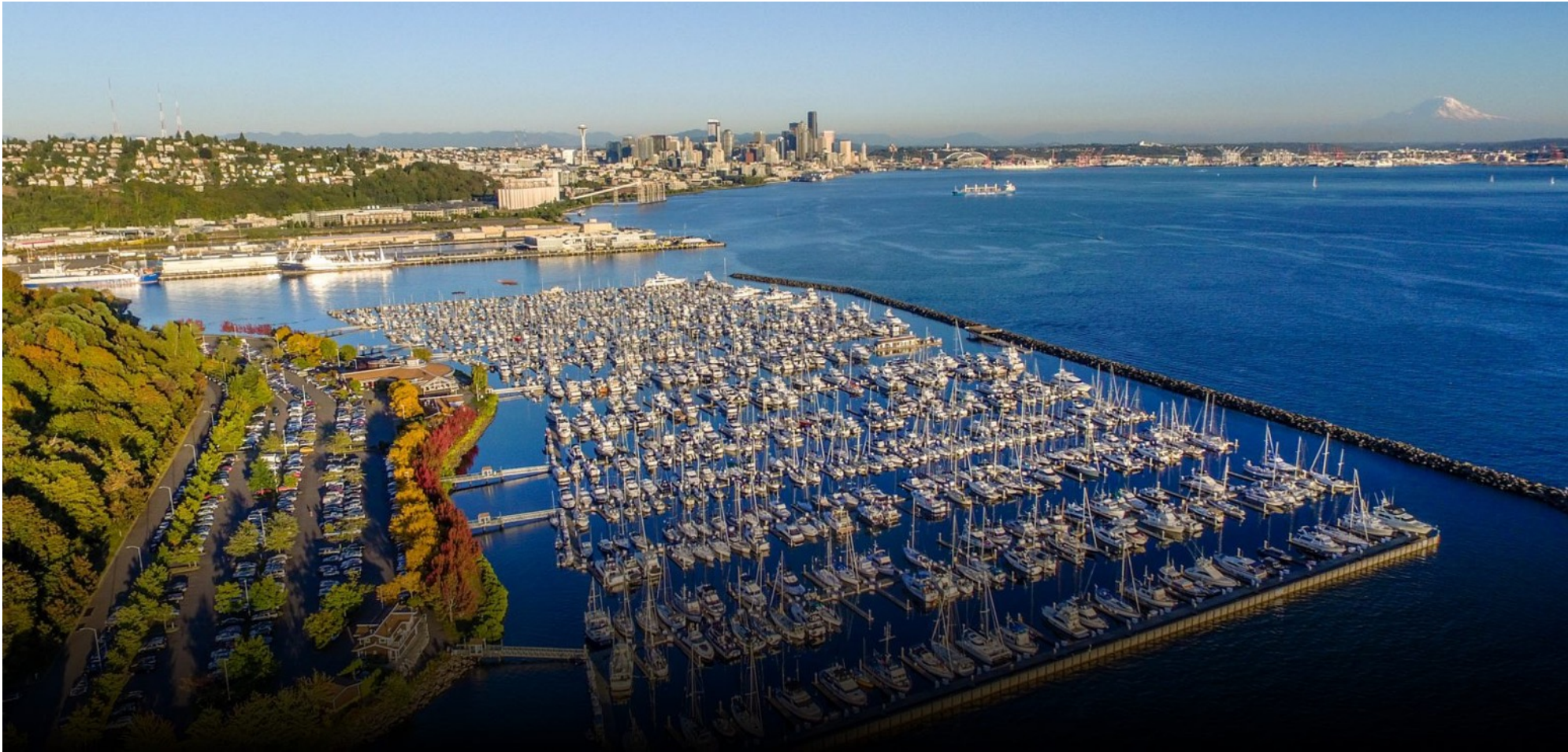
Feature: Route Creation



Feature: Route Creation



Route Creation – Search by name



Feature: Route Creation



The screenshot displays a marine navigation application interface. The main map shows a harbor area with various zones and depth contours. Key features on the map include:

- Close**: A blue button in the top left corner.
- 408FT MAURY**: A yellow area on the left side of the map.
- 133FT**: A depth contour line.
- "J"**: A yellow buoy icon.
- SEPARATION ZONE**: A pink shaded area.
- "TB"**: A yellow buoy icon.
- 606**, **588**, **624**, **396**: Depth contour lines.
- PIPELINE AREA**: A pink shaded area.
- DES MOINES**: A label for the harbor area.
- 0.3nm**: A scale bar.
- MARINA DES MOINES SEWER**: A label for the sewer marina.
- MADRONA SCH**: A label for the school.
- BOAT RAMP**: A label for the boat ramp.
- RAMP**: A label for the ramp.
- "L"**, **"K"**, **"4"**, **"1"**: Various buoy icons.
- 594**, **624**, **660**, **432**, **444**, **534**, **600**, **576**: Depth contour lines.
- 24**, **36**, **96**, **7**: Depth contour lines.
- 376FT**, **394FT**: Depth contour lines.
- 504**, **24**: Depth contour lines.
- 2XSV**: A label for the vessel.

The sidebar on the right displays the following data:

- Coolant Temp (P)**: 118°F
- Oil Pres. (P)**: 60psi
- Total Econ.**: 0.00 nm/gal
- Remaining**: 145 gal
- GPS Speed**: 2.89 kt
- Depth**: 14.6 ft

The bottom navigation bar contains the following buttons:

- Engage**
- Waypoints**
- Info** (highlighted with a red box)
- Home**
- Menu**
- Mark**
- SOS**

Feature: Route Creation



Feature: Route Creation



A screenshot of the GPSMAP 8612xsv interface. The screen has a dark background with a diamond-patterned grid. At the top left, it says "Services" and "Close". In the center, it says "GPSMAP 8612xsv". At the top right, it shows "128.5f" and some icons. A red box highlights a menu that is open on the right side, containing three options: "Search by Name", "Offshore Services", and "Inland Services". At the bottom right, there is a "Back" button with a left arrow. At the very bottom, there is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home" (which is highlighted), "Menu", "Mark", and "SOS".

Feature: Route Creation



A screenshot of the GPSMAP 8612xsv interface. At the top, it says "Search by Name" with a "Close" link. The title "GPSMAP 8612xsv" is centered. On the right, there's a speed indicator "131.0f" and a signal strength icon. Below the title is a large empty text input field. A virtual keyboard is overlaid on the screen, featuring a standard QWERTY layout with additional function keys like "Cancel", "À È Ø", "Space", "1 2 3", "Delete", "Clear", and "Done". At the bottom of the screen is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Feature: Route Creation



The screenshot shows a mobile application interface for a GPS device. At the top, the text "Marine Service" is visible with a "Close" link. The main title is "GPSMAP 8612xsv". The top right corner displays "145.4f" and various status icons. A red box highlights a "Navigate To" button in the upper right area. The central part of the screen shows a detailed information card for "Elliot Bay Marina" with the following text: "2601 West Marina Place", "Seattle, 98199", "+1 206 285 4817", "Notes:", "Note: State: WA", "vhf: 78", "Transient Berths: 100", "Opening: YEAR ROUND", "Services:", "Telephone", "Fuel:", "Diesel", "Gasoline". At the bottom of the card are navigation arrows and a "1/2" indicator. A "Back" button is located at the bottom right of the card area. The bottom of the screen features a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Feature: Route Creation



A screenshot of a GPSMAP 8612xsv interface. The screen is dark with white text. At the top left, it says "Marine Service" and "Close". The title "GPSMAP 8612xsv" is at the top center. On the right, it shows "148.3f" and some icons. A red box highlights a menu on the right side with three options: "Auto Guidance", "Go To", and "Route To". The "Auto Guidance" option is highlighted with a blue bar. Below the menu is a "Back" button. At the bottom, there is a navigation bar with buttons for "Engage", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS". The "Home" button is highlighted. On the left side of the screen, there is information for "Elliot Bay Marina": "2601 West Marina Place", "Seattle, 98199", "+1 206 285 4817", "Notes: Note: State: WA", "vhf: 78", "Transient Berths: 100", "Opening: YEAR ROUND", "Services: Telephone", "Fuel: Diesel Gasoline". At the bottom left, there are navigation arrows and "1/2".

Feature: Route Creation



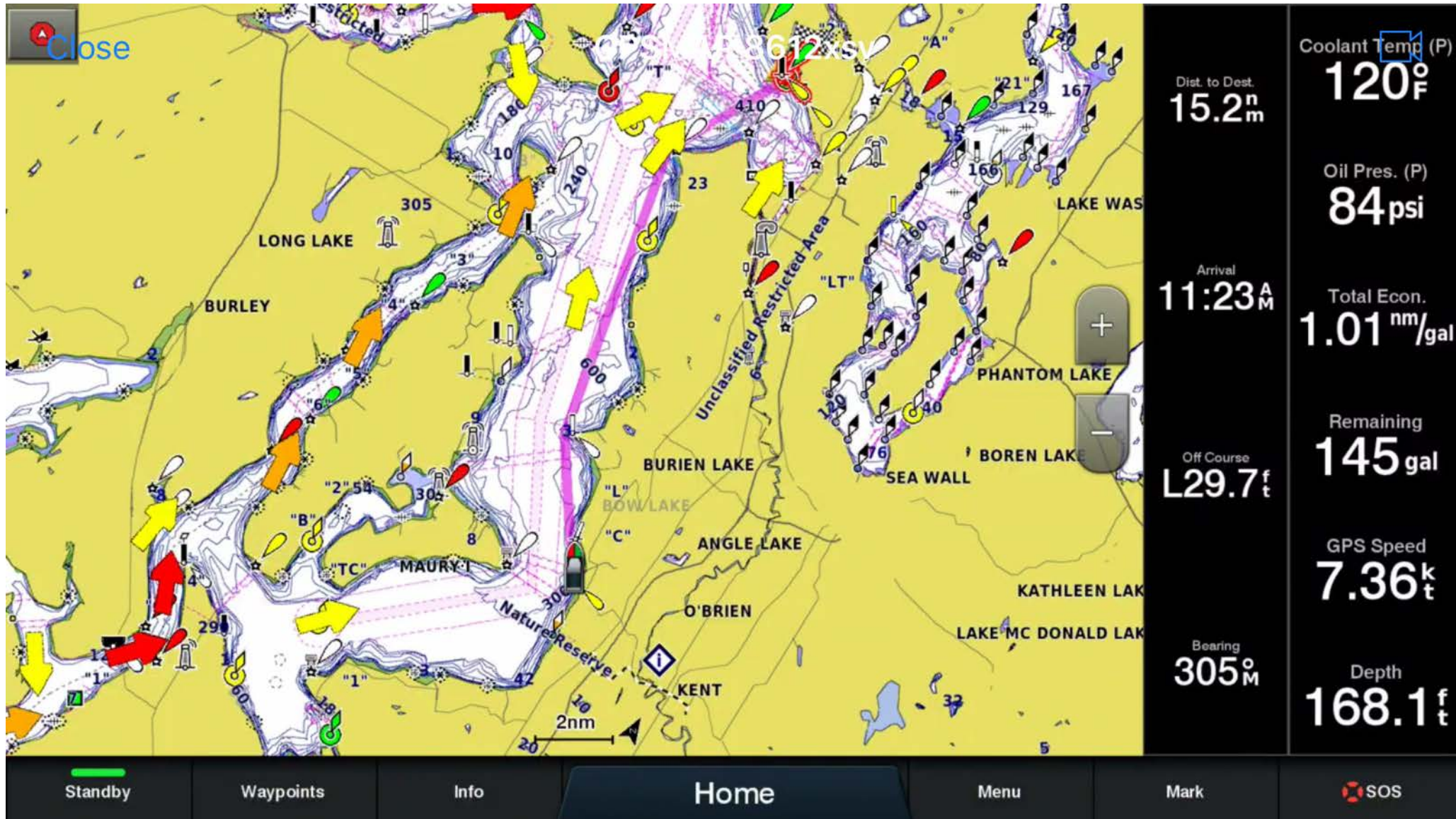
The screenshot displays a navigation application interface. The main map area shows a complex waterway system with a route highlighted in pink and yellow arrows indicating direction. The route starts near 'LONG LAKE' and 'BURLEY' and winds through 'BURIEN LAKE', 'ANGLE LAKE', 'SEA WALL', 'PHANTOM LAKE', and 'BOREN LAKE'. A red arrow points to a specific location on the map labeled 'GPSMAP 8612'. The map includes various navigational markers, depth soundings, and labels for 'LAKE WASHINGTON' and 'LAKE DOLLOFF'. A scale bar indicates 2nm. A 'Close' button is in the top left corner.

On the right side, there is a control panel with the following elements:

- Auto Guidance** (with a blue square icon)
- Hazard Review** (with a yellow warning triangle icon)
- Adjust Path** (with a right-pointing arrow icon)
- A smaller map view showing the current route and a 5nm scale bar.
- Cancel Auto Guidance**
- Start Navigation** (highlighted with a red border)

At the bottom of the screen is a navigation bar with the following buttons: Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Feature: Route Creation



Feature: Route Creation – Recalculate Route



The screenshot displays a marine navigation software interface. The main map area shows a vessel icon (a tugboat) positioned on a route. The route is highlighted in orange and pink. A dashed line indicates a 300ft distance from the vessel to the route. The map includes contour lines with numerical values such as 630, 624, 660, 594, 486, 456, 156, 120, 18, and 60. A 'Close' button is visible in the top left corner. On the right side, there is a data panel with the following information:

Dist. to Dest.	13.8 ⁿ _m	Coolant Temp (P)	136 ^o _F
Arrival	09:52 ^A _M	Oil Pres. (P)	81 psi
Off Course	L189 ^f _t	Total Econ.	1.53 ^{nm} / _{gal}
Bearing	311 ^o _M	Remaining	144 gal
		GPS Speed	28.6 ^k _t
		Depth	681.0 ^f _t

At the bottom of the screen, there is a navigation bar with several buttons: Engage, Waypoints, Info, Home, Menu (highlighted with a red box), Mark, and SOS.

Feature: Route Creation – Recalculate Route



The screenshot displays a navigation application interface. On the left, a map shows a route with a yellow line and a pink line. A boat icon is positioned on the route, with a dashed line and a 300ft scale bar indicating its distance from a point on the route. Contour lines are labeled with values such as 630, 624, 660, 594, 486, 156, and 456. A 'Close' button is visible in the top left corner. On the right, a 'Navigation Chart Menu' is open, listing options: Layers, Quickdraw Contours, Settings, Navigation Options (highlighted with a red box), and Edit Overlays. A 'Back' button is at the bottom of the menu. At the bottom of the screen, a navigation bar contains buttons for Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Feature: Route Creation – Recalculate Route



The image shows a mobile navigation application interface. On the left, a map displays a route with a yellow segment and a pink segment. A boat icon is positioned on the route, with a dashed line and a "300ft" label indicating its distance from a point on the route. The map includes contour lines and numerical labels such as 630, 624, 600, 486, 156, and 660. A "Close" button is visible in the top-left corner of the map area.

On the right, a sidebar menu titled "Navigation Options" is open. The menu items are:

- Stop Navigation (with a red triangle icon)
- Recalculate Auto Guidance** (highlighted with a red border)
- Timed Arrival

At the bottom of the sidebar is a "Back" button. The bottom of the screen features a navigation bar with the following tabs: Engage, Waypoints, Info, Home (which is highlighted), Menu, Mark, and SOS.

Feature: Route Creation – Recalculate Route



Close

630

594

624

Warning

Auto Guidance path contains potential hazards. Review for safety.

Review

OK

Engage Waypoints Info Home Menu Mark SOS

Dist. to Dest. 13.7^{nm}_m

Coolant Temp (P) 138[°]F

Oil Pres. (P) 79psi

Arrival 09:52^{AM}

Total Econ. 1.53^{nm}/gal

Off Course L15.2^{ft}

Remaining 144 gal

Feature: Route Creation



The interface displays a map with a pink route and a boat icon. A scale bar indicates 300ft. A 'Close' button is in the top left. A bottom menu contains: Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Dist. to Dest. 13.7ⁿ_m	Coolant Temp (P) 138^o_F
Arrival 09:52^A_M	Oil Pres. (P) 79_{psi}
Off Course L42.3_f	Total Econ. 1.53^{nm}_{/gal}
Bearing 311^o_M	Remaining 144_{gal}
	GPS Speed 28.7^k_t
	Depth 648.0_f^t

Feature: Autopilot Screen



The "STBY" standby button will disengage the autopilot for manual control.



Feature: Autopilot Screen



To reengage the route, press “Menu” and “Select” with “Engage Route” highlighted.



Feature: Autopilot Screen



Pressing “Engage” on this screen will engage a heading hold
Note: this will not reengage a route, as shown in the previous slide



Setting: Active Tracks



The image shows a GPSMAP 8612xsv interface with a map and engine data. A red box highlights a dashed track on the map. The engine data panel on the right includes:

- Coolant Temp (P): 115°F
- Oil Pres. (P): 67 psi
- Total Econ.: 0.00 mpg
- Remaining: 23.4 gal
- GPS Speed: 0.00 m/h
- Depth: 15.1 f t

At the bottom, there is a navigation bar with buttons: Engage, Waypoints, Info, Home, Menu, Mark, and SOS.

Setting: Active Tracks



Close

GPSMAP 8612xsv

Coolant Temp (P) **115°F**

Oil Pres. (P) **67 psi**

Total Econ. **0.00 mpg**

Remaining **23.4 gal**

GPS Speed **0.00 m/h**

Depth **15.1 ft**

20ft

Engage Waypoints **Info** Home Menu Mark SOS

Setting: Active Tracks

A screenshot of the GPSMAP 8612xsv settings menu. The screen has a dark background with a grid pattern. At the top left, it says "Information" and "Close". At the top center, it says "GPSMAP 8612xsv". At the top right, it shows "596.7", a magnifying glass icon, a green arrow icon, and a signal strength icon. A red rectangle highlights the "User Data" option in the settings list. The settings list includes: "Tides & Currents", "User Data", "Garmin ActiveCaptain™", "Services", "Trip & Graphs", "DSC List", "Warning Manager", and "Back". At the bottom, there is a navigation bar with buttons for "Standby", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Information
Close

GPSMAP 8612xsv

596.7

Tides & Currents

User Data

Garmin ActiveCaptain™

Services

Trip & Graphs

DSC List

Warning Manager

Back

Standby Waypoints Info Home Menu Mark SOS

Setting: Active Tracks



A screenshot of the GPSMAP 8612xsv device's settings menu. The screen has a dark background with a diamond-patterned grid. At the top left, it says "User Data" and "Close". At the top center, it says "GPSMAP 8612xsv". At the top right, it shows "587.4f" and some status icons. A vertical menu on the right side contains several options: "Waypoints", "Tracks" (highlighted with a red border), "Routes & Auto Guidance", "Boundaries", "Data Transfer", and "Delete User Data". At the bottom right of this menu is a "Back" button. At the very bottom of the screen is a navigation bar with icons for "Standby", "Waypoints", "Info", "Home" (which is highlighted), "Menu", "Mark", and "SOS".

Setting: Active Tracks



The screenshot shows the "Active Track Options" menu on a GPSMAP 8612xsv device. The menu items are: "Active Track Options", "Save Active Track", "Clear Active Track" (highlighted with a red box), "Follow Active Track", "Saved Tracks", and "Active Track Memory" (with a 16% progress indicator). A "Back" button is at the bottom of the menu. The device's status bar shows "585.3f" and a signal strength icon. The bottom navigation bar includes "Standby", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Setting: Active Tracks



The screenshot shows the GPSMAP 8612xsv interface. At the top, the text "Tracks" is followed by a "Close" button. The device name "GPSMAP 8612xsv" is displayed in the center. The top right corner shows the altitude "584.9ft" and various status icons. A menu is open on the right side with the following options: "Active Track Options", "Save Active Track", "Clear Active Track", "Follow Active Track", and "Saved Tracks". Below the menu, a dialog box titled "Clear Active Track" is displayed with the question "Delete all points in the active track log?". Two buttons are visible: "Cancel" and "OK". The "OK" button is highlighted with a red rectangular border. At the bottom of the screen is a navigation bar with buttons for "Standby", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Setting: Active Tracks

A screenshot of the GPSMAP 8612xsv device's settings menu. The screen has a dark background with a grid pattern. At the top left, it says "Tracks" and "Close". In the center, it says "GPSMAP 8612xsv". At the top right, it shows "586.5f" and some status icons. A menu is open on the right side with the following items: "Active Track Options", "Saved Tracks", and "Active Track Memory". The "Active Track Memory" item is highlighted with a red rectangular box and shows "0%". At the bottom right of the menu, there is a "Back" button. At the very bottom of the screen, there is a navigation bar with buttons for "Standby", "Waypoints", "Info", "Home", "Menu", "Mark", and "SOS".

Tracks
Close

586.5f

GPSMAP 8612xsv

Active Track Options

Saved Tracks

0%

Active Track Memory

Back

Standby Waypoints Info Home Menu Mark SOS

Setting: Active Tracks



Close

GPSMAP 8612xsv

20ft

Coolant Temp (P)
115°F

Oil Pres. (P)
67 psi

Total Econ.
0.00 mpg

Remaining
23.4 gal

GPS Speed
0.00 m/h

Depth
15.1 ft

Engage Waypoints Info Home Menu Mark SOS

Are there any Questions?

**Thank you for joining us for
Garmin 101**



Thursday April 9th 2020