iNavX

#1 Marine Navigation App

Understanding the Basics
iNavX - ANDROID

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# Start-Up or Main Screen

When you open iNavX, the app defaults to the **Chart View** screen, this is your main screen. (depending on your user state, the Chart View will either show the last opened Chart of the World Chart – as shown)

From here you can navigate to all the different areas in the app, through the menu bar at the bottom or settings at top right.

Let's start by clicking the "**Charts**" button on the bottom. This will take us to our Charts list where we can access and purchase Charts
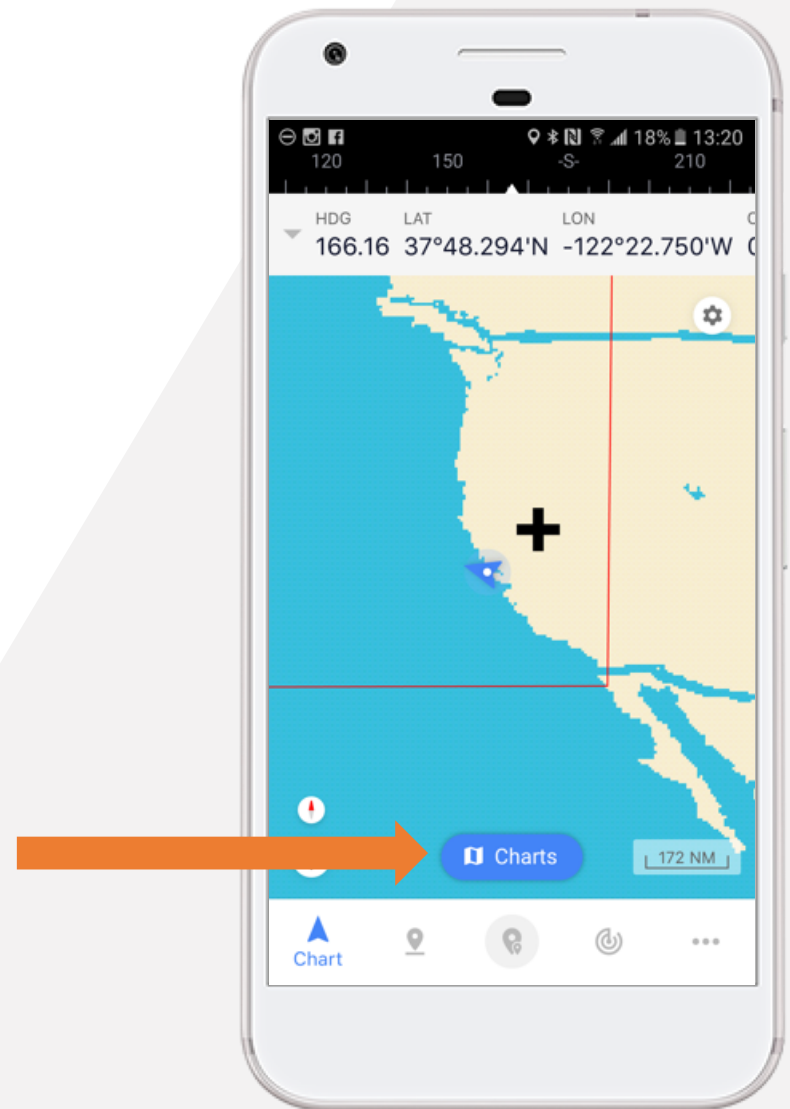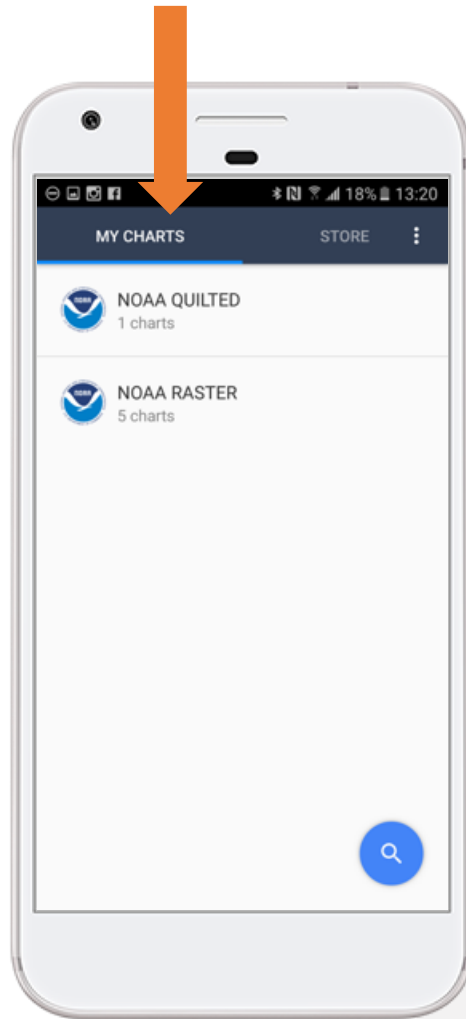
Charts Page

My Charts shows a list of all charts that are available to be used
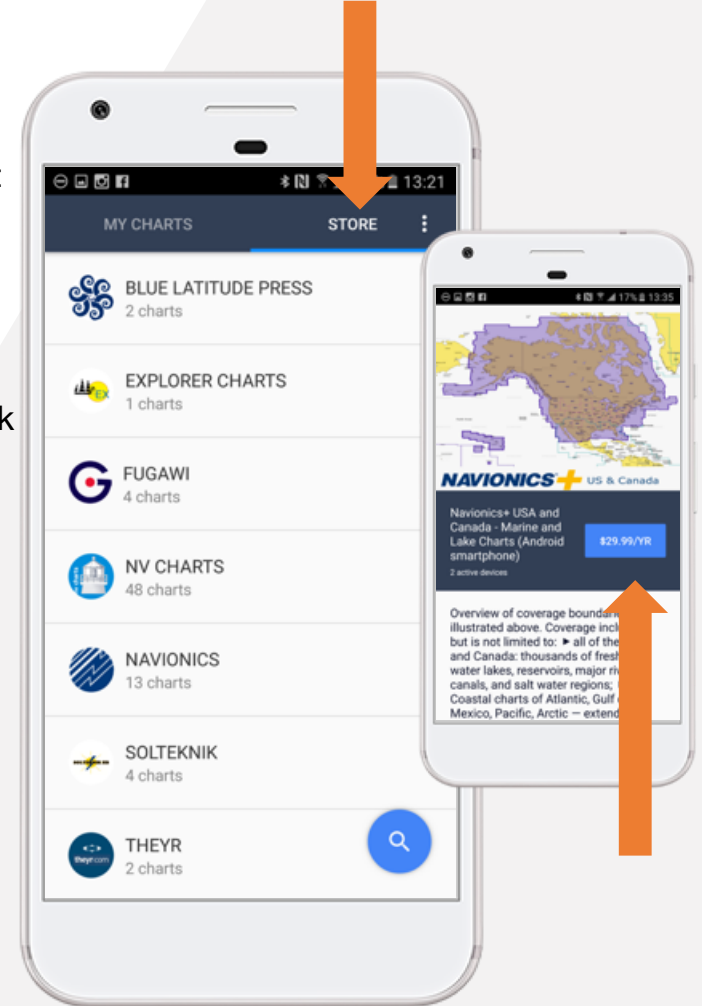
These include the pre-installed NOAA Charts that are made available for free to all users …

And, purchased charts tied to your iNavX / Fugawi Account

Store shows a list of all Charts that are available for Purchase

To complete a purchase, select the Chart and click **Buy**

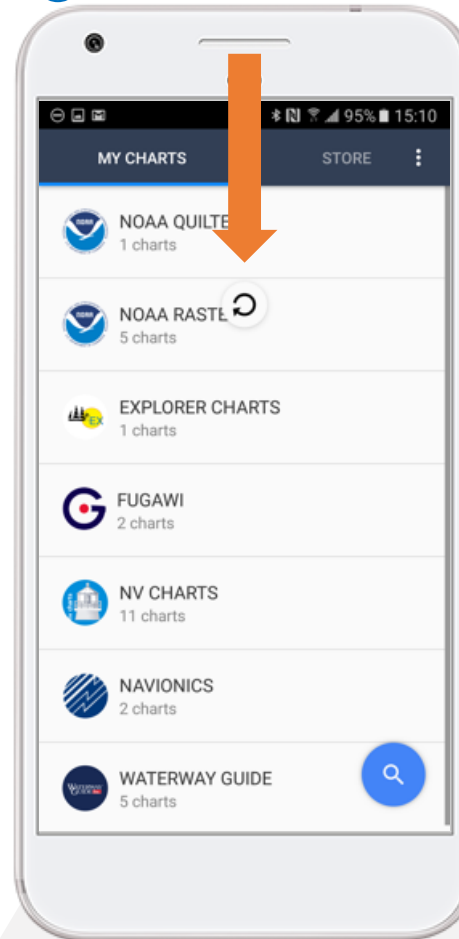iNavX
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Refreshing Charts

Refresh the chart list to:

- Ensure all purchased and downloaded Charts are available under My Charts
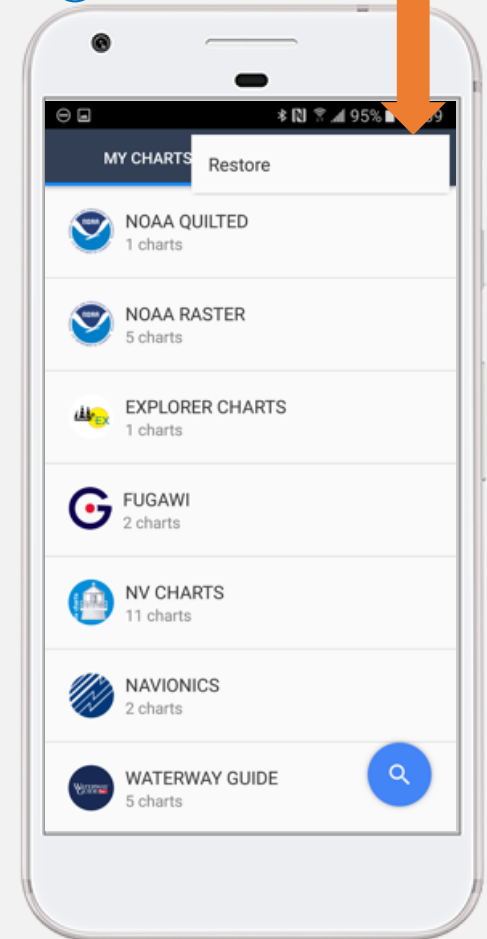
- Update Charts to the latest versions

Two ways to Refresh Charts:

⛵ **1**/ Pull down on the Chart list

⛵ **2**/ Open the menu in the top right corner and select Restore

Logging into iNavX Account

To complete a Chart purchase and to see all Charts, a user must be logged into their iNavX Account

- Open the **Menu** (three dots bottom right)

- Select **Account**

- Log In with iNavX **Username** and **Password**

- **Register** to create a new account, or request a new password

- Once complete, Account will show the user as **Logged In** and display the account username email

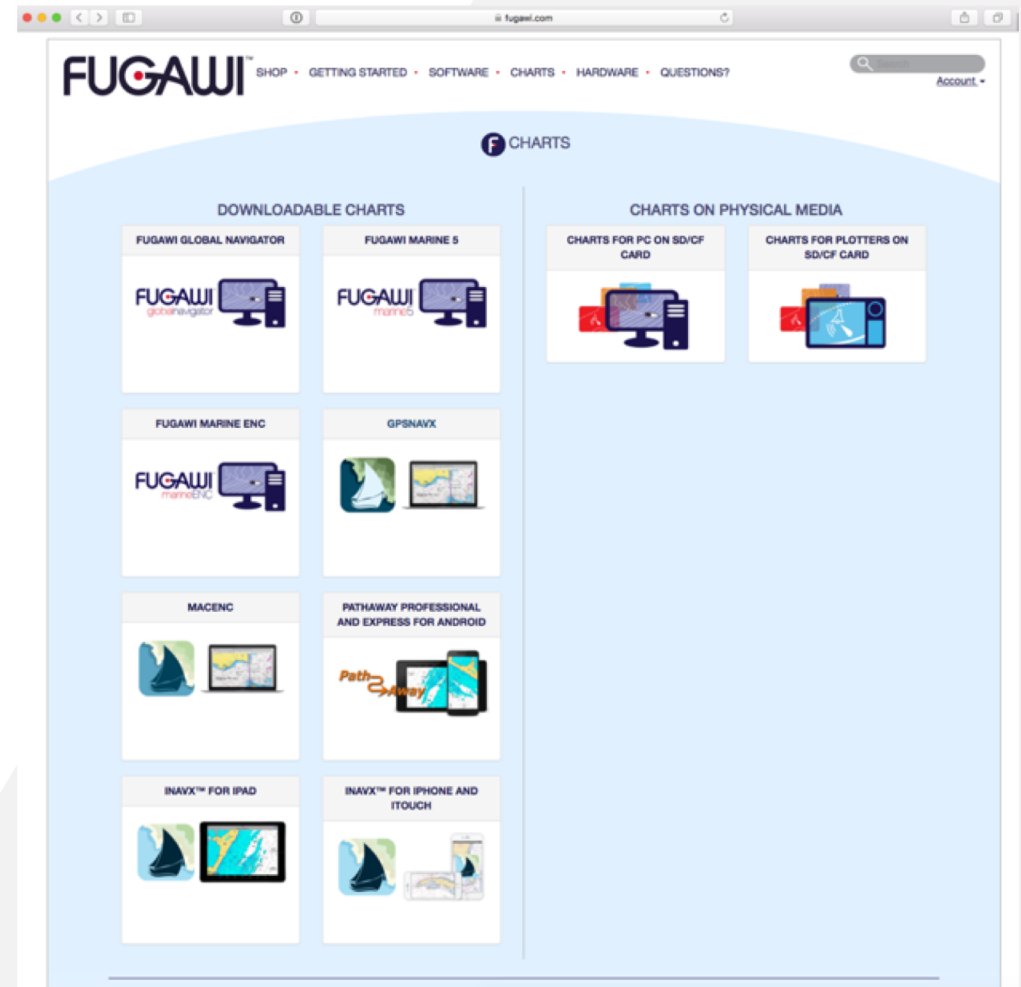Let's click "**Chart**", at the bottom to continue

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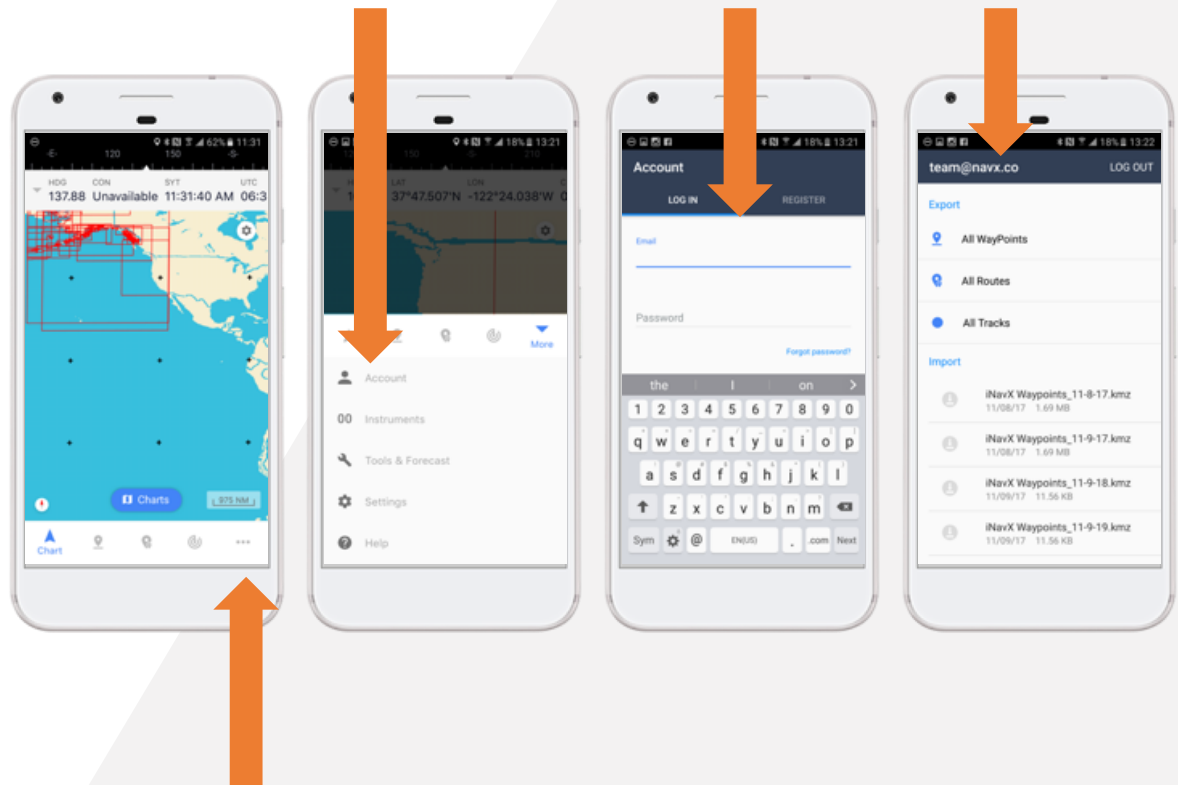
Logging into Fugawi.com online

The Fugawi website is a great resource, here you can

- **Create** an Fugawi Account
- **Access** your Fugawi Account
- **Purchase Charts**
- Access, backup and transfer data including **Waypoints** and **Routes**
- Request **Theyr** and **GRIB** file weather data

Access Fugawi at https://fugawi.com/charts

Opening a Chart

A step by step guide to download and access specific charts

🔵 **1/** Open the **My Charts** list

🔵 **2/** Select and Open the desired Chart

🔵 **3/** Select or search for the specific Chart Group or Region and touch the **Download** icon

🔵 **4/** Confirm you want to download that Chart

🔵 **5/** Downloading Charts requires an internet connection (either WiFi or cell coverage)

🔵 **6/** Charts that are local, already downloaded from the chart server will be designated with a **Green Check Mark**. These charts are available to be used Offline

🔵 **7/** Select the desired Chart to open

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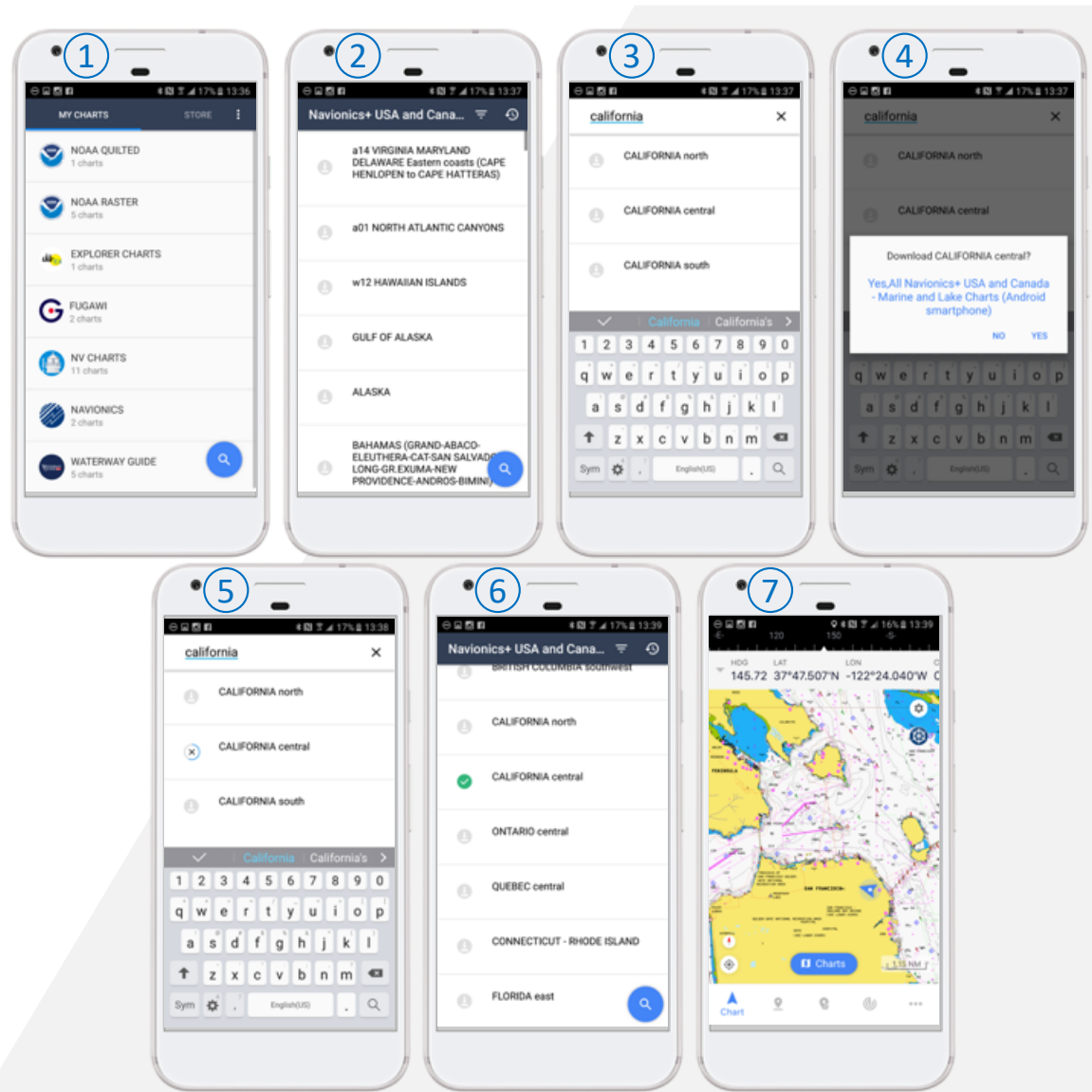
Selecting Charts

The Chart List can be filtered using the three action buttons

- **Magnifying Glass**: Opens the Search bar, to search chart list by chart number or name
- **Filter**: Sorts Charts by proximity, charts closest to the current location are shown first
- **Clock**: Sort Charts by history, shows Charts recently opened

Charts that are local (previously downloaded to the device) will be shown with **Green Check Mark**. When a Chart is selected that is not local, it must be downloaded from the Chart server before using, this requires an internet connection
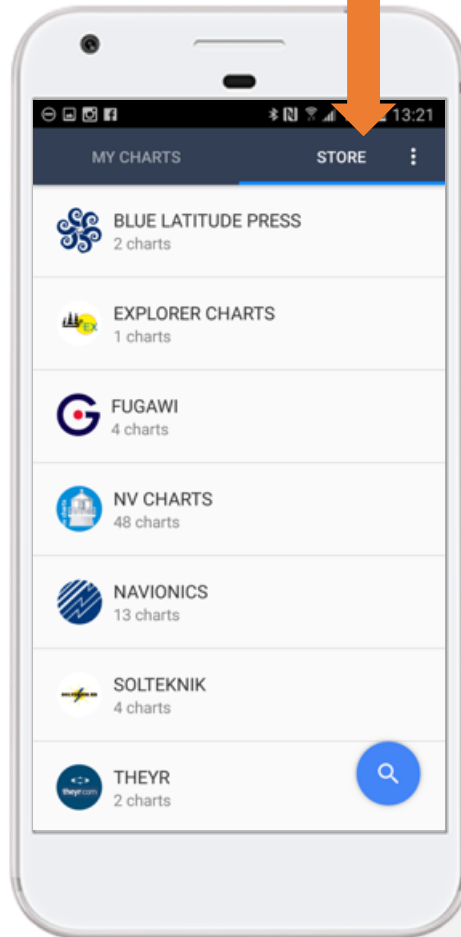
To **Delete** a downloaded Chart, simply **SWIPE** Left

Tip … when returning to the chart list, Tap the magnifying glass to restore the full list. Previous filters and searches may truncate the results
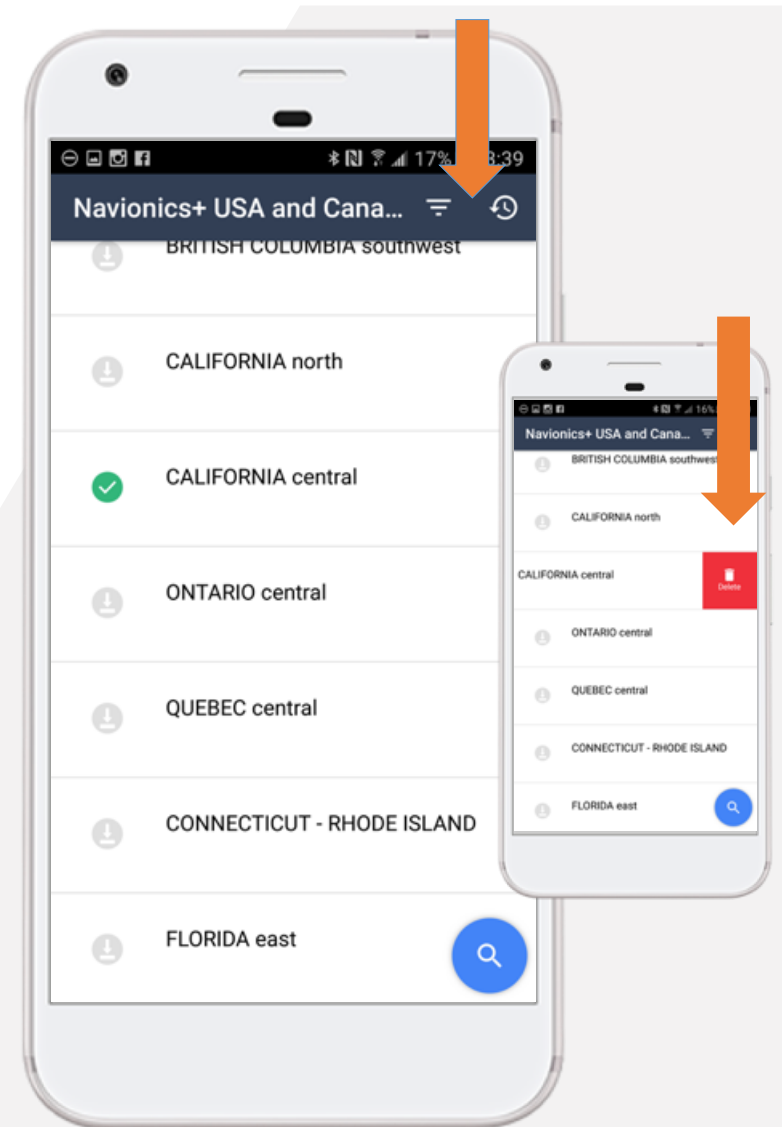
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iNavX In-App Chart Store

Directly through the app, access the broadest set of marine charts from all your favorite providers. Available today:

- **Blue Latitude**
- **Explorer Charts**
- **Fugawi**
- **NV Charts**
- **Navionics**
- **Solteknik**
- **Theyr Weather**
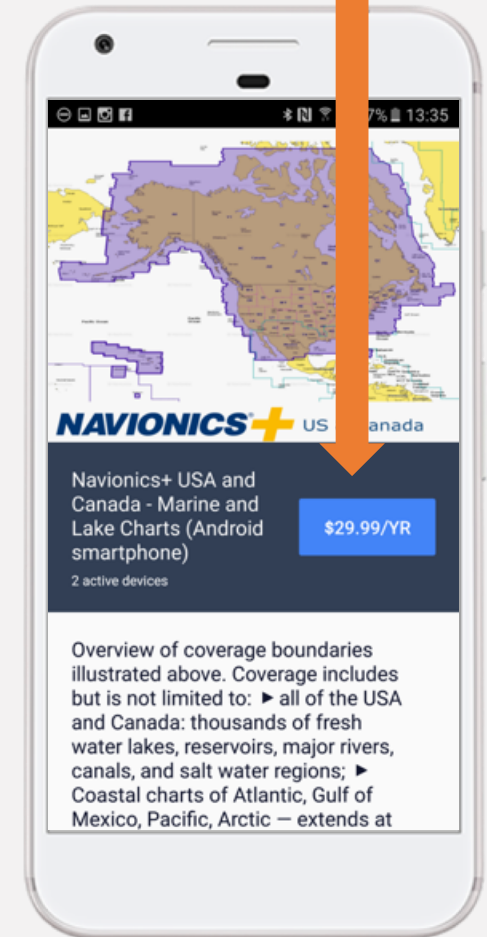- **Waterway Guides**
- **… and more coming soon**

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MY CHARTS | **STORE**

BLUE LATITUDE PRESS
2 charts

EXPLORER CHARTS
1 charts

FUGAWI
4 charts

NV CHARTS
48 charts

NAVIONICS
13 charts

SOLTEKNIK
4 charts

THEYR
2 charts

Step 1:
Select **Charts** from **Navigation** Screen

Step 2:
Select **Store**

Step 3:
Choose your **Chart** from the **Store** List

Step 4:
Click **Buy** to confirm Purchase

NAVIONICS + US Canada

Navionics+ USA and Canada - Marine and Lake Charts (Android smartphone)

$29.99/YR

2 active devices

Overview of coverage boundaries illustrated above. Coverage includes but is not limited to: ▶ all of the USA and Canada: thousands of fresh water lakes, reservoirs, major rivers, canals, and salt water regions; ▶ Coastal charts of Atlantic, Gulf of Mexico, Pacific, Arctic — extends at

Understanding the Charts View Screen

Across the Top and Bottom of the App, you will find a number of options

- **Charts** – this will take you to the My Charts and Chart Store page
- **Settings** – depicted by the Gear Icon ⚙ in the top right corner, is where all the Chart settings can be configured.
- **Chart** – to display the Chart View.
- **Waypoints** 📍 – save, import and configure Waypoints
- **Routes** 🅟 – save, import, configure and navigate Routes
- **Track** ⊚ – manage Tracking settings
- **More** ••• – menu for Instruments, Account, Forecasts, Tools and Help sections

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Using Charts

Once a Chart is selected from the Chart List, it will be displayed in the Chart View

- **Zooming** – Pinch and Pull to zoom in and out on the Chart. The corresponding Scale will be shown at the lower right corner

- **Scrolling** – Drag the chart in any direction to scroll

- **Full Screen** – The expand/contract triangle on the left side of the Instrument Panel will toggle to Full Screen

- **Compass** and **Instruments** – are shown at the top of the Chart, Instruments can be configured in the More Menu at the bottom right corner

- **North** – The directional arrow at the lower left corner is orientated to North on the Chart

- **Chart Information** – to learn more about or remove, update, email, print or tweet the displayed Chart, open Settings ⚙ then select Information "**i**" in the top right corner

- Tip … when viewing charts far away from current Position, turn off **Position Icon** in Chart Settings
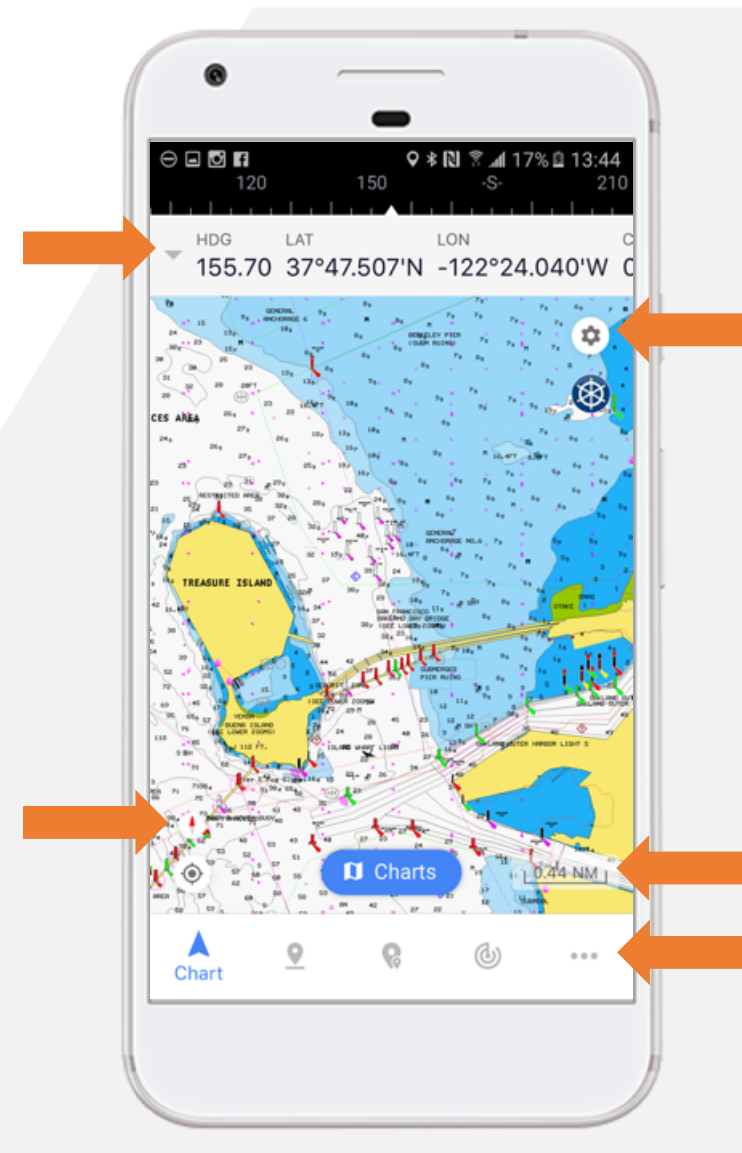
Measure Mode

Double-tapping on the Chart will start measure mode

This is shown by the **Red Dot** in the center of the Chart

Press & Drag to measure distance and bearing between start point (**Green Dot**) and end point (**Red Dot**), results shown across the top of the Chart

Single Tap anywhere else on the chart to exit measuring

Using Settings

Settings	When Enables			
Position Icon Location	Selection	Result		Automatically Display Best Detail Chart
	Ctr	Chart view automatically scrolls such that the position icon is kept in the center of the Chart View. Note: this selection is automatically made when course up chart orientation is in use.		X
	Offset	Chart view is automatically scrolled such that the position icon is kept in the Chart view offset relative to course. Note: SOF must be at least 0.5 knots before an offset occurs.		X
	None	Chart view is not automatically scrolled		
Position Icon Color	Position icon will be filled with selected color.			
Pos. Icon Size	Position icon scaled between 0% and 100%			
Night View	Night time friendly palette colors is used for the display of the chart			
Waypoint Activated Alert	Will display an alert and sound when ever a waypoint is activated (i.e. Go To)			
Show Waypoints As	Waypoints are plotted on the Chart View			

Using Settings

| Settings	When Enables	
Show Waypoints As	Title	Waypoints shown as title
	Icon	Waypoints shown as selected icon
	Both	Waypoints shown as title and icon
Show Waypoints	All	All Waypoints are plotted
	Route	Waypoints contained in the selected Route are plotted
	None	No Waypoints are plotted
Show Route	All	All Routes are displayed
	Sel	Waypoints contained in the selected Route are displayed
	None	No Routes are displayed
Show Boundaries	Display the bounds of the available charts, this also enables chart selection in the Chart menu accessed by single tapping the chart	
Show Track	Track log is plotted on the Chart View	
Show AIS	AIS Targets are plotted on the Chart view. Single Tap target in Chart view to show information view. AIS Target dot color coding: Yellow = no static data received, Green = static data received, Gray = no data received in last 5 minutes. AIS Target fill color coding: Dark Red = tracked, Orange = Class A, Magenta = Class, Red = SART.	
	All	All AIS targets plotted
	Uway	AIS targets with a SOG > 0.3 knots plotted
	None	None are plotted
	Class A	Class A targets plotted
	Class B	Class B targets plotted
Points of Interest	Displays Points of Interest, if subscribed to Waterway Guide data overlays via Fugawi. Select the guide region matching the chart region currently of interest.	

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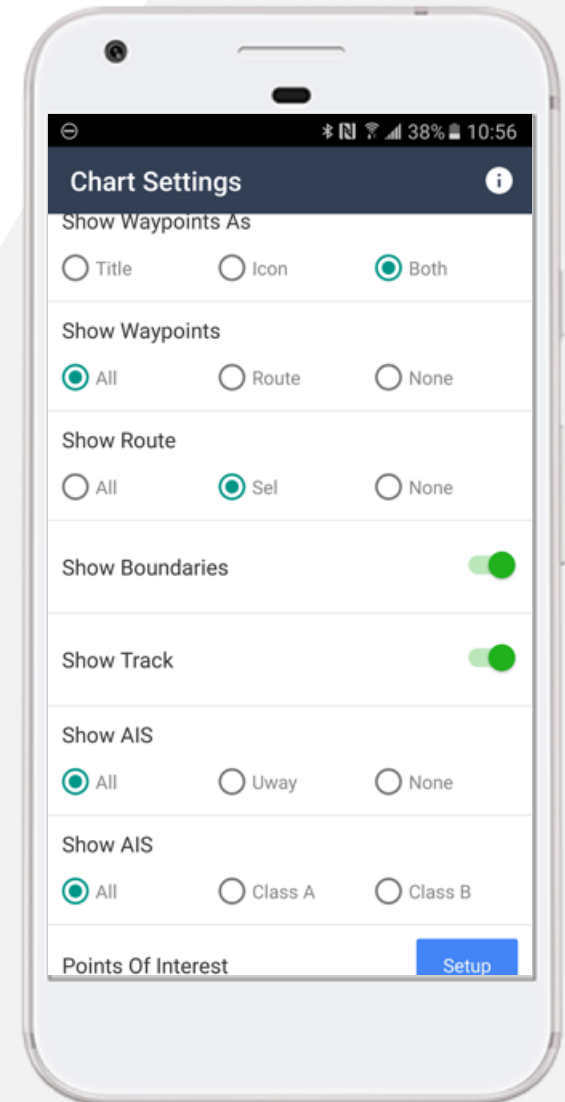
Using Settings

Settings	When Enables
Show NavAids	Display NavAids
Show Light Sectors	Displays light sections
Show Soundings	Show depth soundings
Show Surface	Show surface annotations
Show Recommended Routes	Displays the recommended routes
Large NavAids	Show text and NavAids slightly larger with loss of some detail
Safety Depth	The depth at which to show the contour shading
US Symbols	Show US symbols, otherwise International
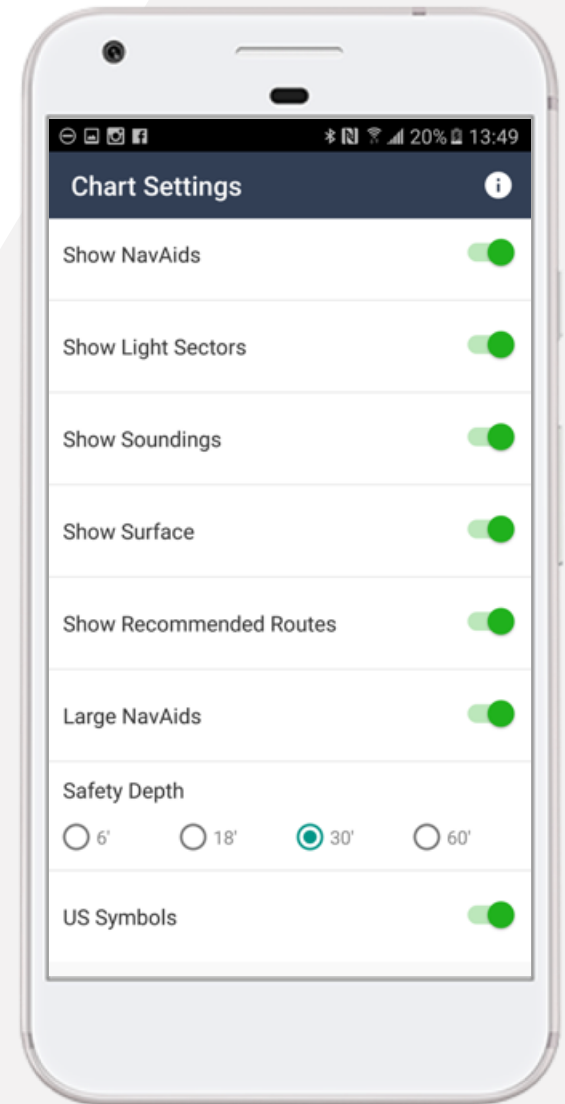
Instruments View

The Instruments view which can be pulled up through the Menu, displays the data (see Datum Table below) from the Location Services (GPS, WiFi, cell coverage)

Selecting any row in the Instruments View will display the selected data by itself in a large font or in some cases as an analog graphic

- **Units** – determine the format of the data

- **Settings** ⚙ – to filter what data is displayed

- **True Bearings** – are disabled in Settings, magnetic bearings will be computed based on the position

- **Compass Deviation** – can be used to calibrate the magnetic compass of the device

- **Location Services** – To use Location Services, enter your devices Settings, select "**Settings**" > "**Personal**" > "**Privacy and Safety**" > "**Location**" > "**App Permissions**" > "**Location**" > and turn "**ON**" for iNavX

  - Note: Airplane Mode does disable the GPS receiver and WiFi reception

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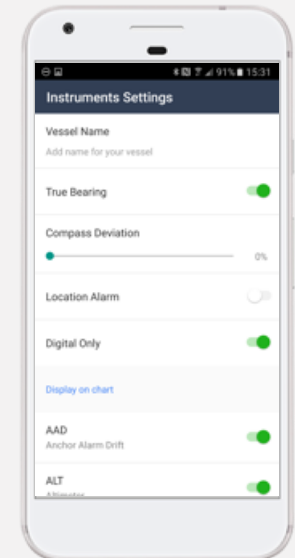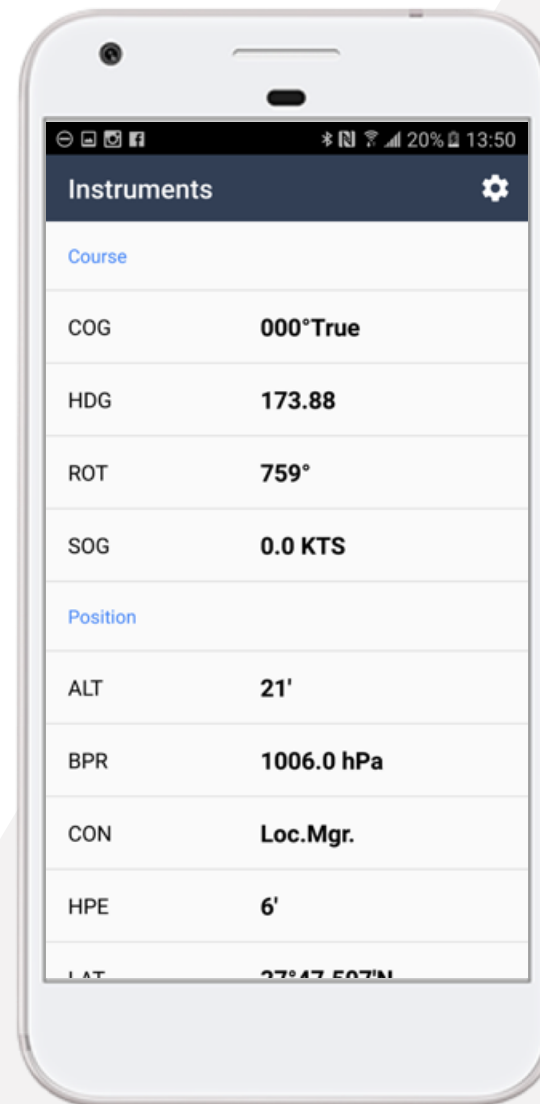
Configuring Instruments

Datum	Description	Analog Graphic or Extended Data Available when "Show Digital is Disabled
AAD	Anchor Alarm Drift	
ALT	Altimeter	
AWP	All Waypoints	X
BPR	Barometric Pressure	X
BTW	Bearing To Waypoint	
COG	Course Over Ground	X
CON	Connection	
DTW	Distance To Waypoint	
HDG	Heading	X
HPE	Horizontal Position Error	
LAT	Latitude	
LON	Longitude	
ROT	Rate Of Turn	
SOG	Speed Over Ground	X
SYT	System Time	
VMG	Velocity Made Good	
WPN	Waypoint Name	
XTE	Cross Track Error	X

Create a Waypoint

A Waypoint is a position on a Chart that you want to make note of. Besides for marking positions, waypoints can be used to navigate to their position

There are 2 ways to create a Waypoint

- **Long Touch** – on a Chart, hold down on the selected spot for two seconds

- **Waypoints Screen** – select "**+**" in the bottom right corner of the Waypoints screen
  - This also provides the option to select Port Search to find a marina, NavAid or other object

- A **Route** can be created from the Waypoint screen through the Action buttons along the bottom
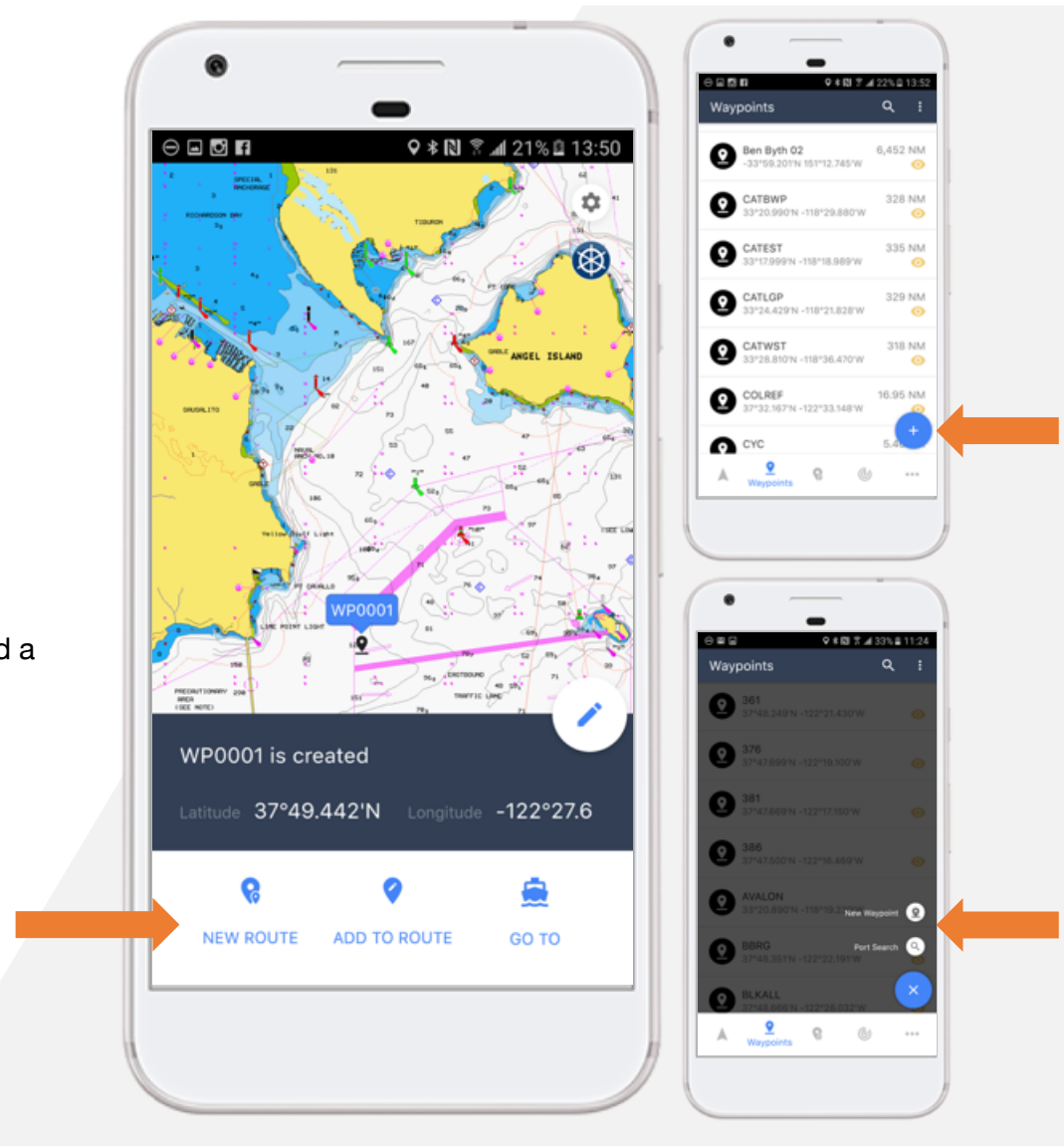
Managing Waypoints

Select the "**+**" button to create a new Waypoint or select an existing Waypoint to view and/or edit

Select "Import/Export" from the top menu button to transfer Waypoints or Routes to/from iNavX
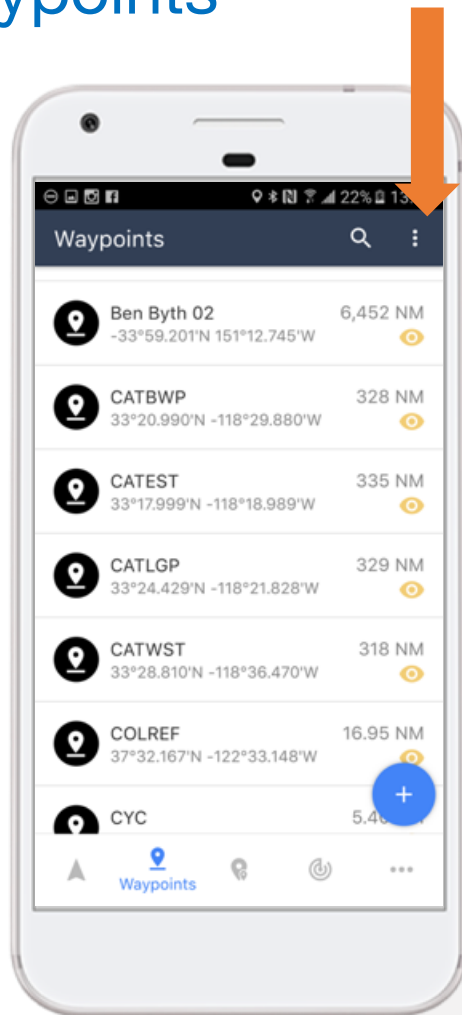
Slide across an individual Waypoint to bring up quick options

- **Show** – display Waypoint on Chart
- **Go To** – can be selected to navigate to the Waypoint
- **Delete** – delete the Waypoint
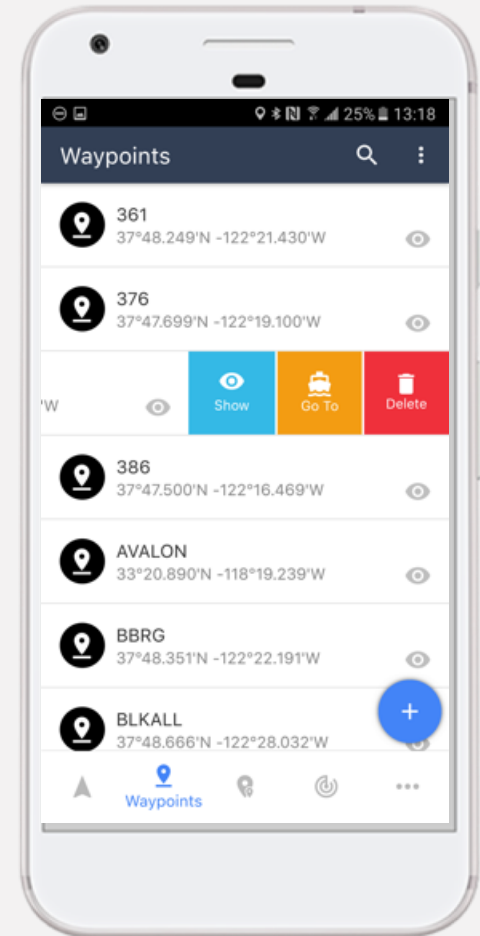
Managing Waypoints

Waypoints can be customized by changing the Name, adding a Description and even assigning a Photo

- **Position** – shown by Lat/Lon, can be changed
- **Distance** – distance from current position
- **Icon** – customize icons & select from +100 options
- **Lock** – will prevent a Waypoint from being changed
- **Show** – will determine if a Waypoint is plotted on the chart

Action Buttons

- **Goto** – can be selected to navigate to the Waypoint
- **Scroll To** – show Waypoint on the Chart
- **Maps** – show the Waypoint on Google Maps
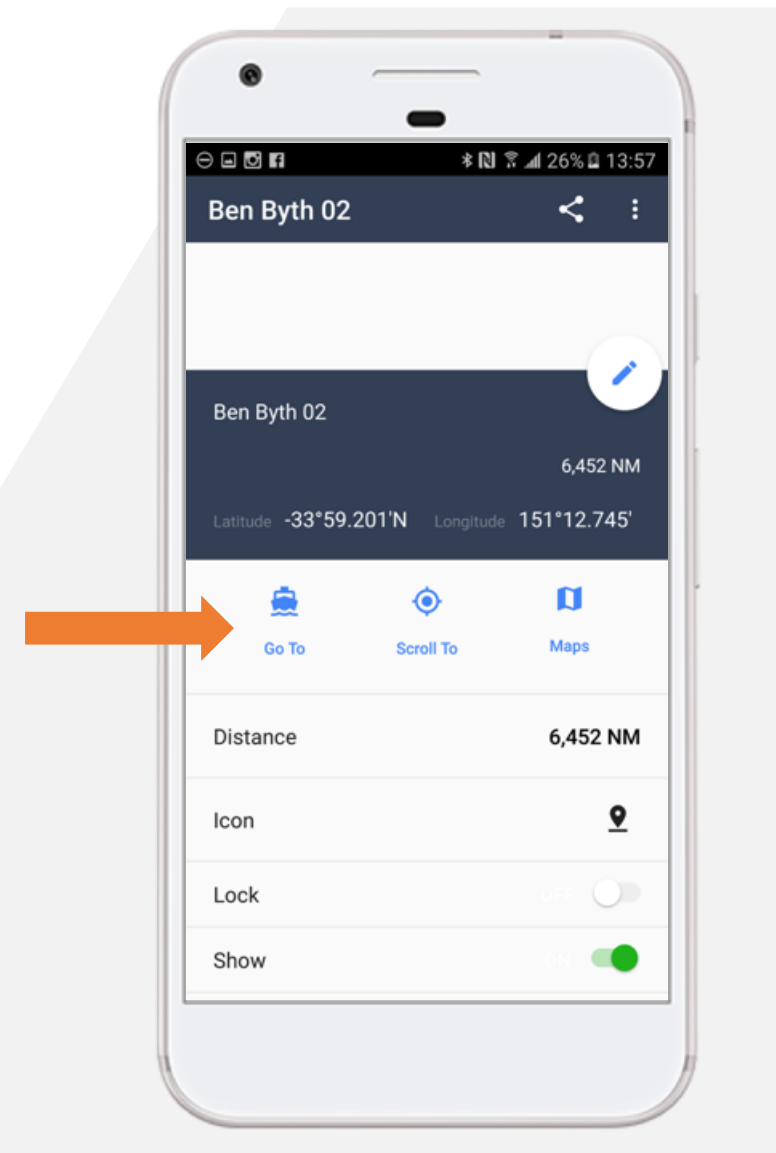
Editing Waypoints

A Waypoint can be moved on the Chart by single-tapping its name, then dragging its location
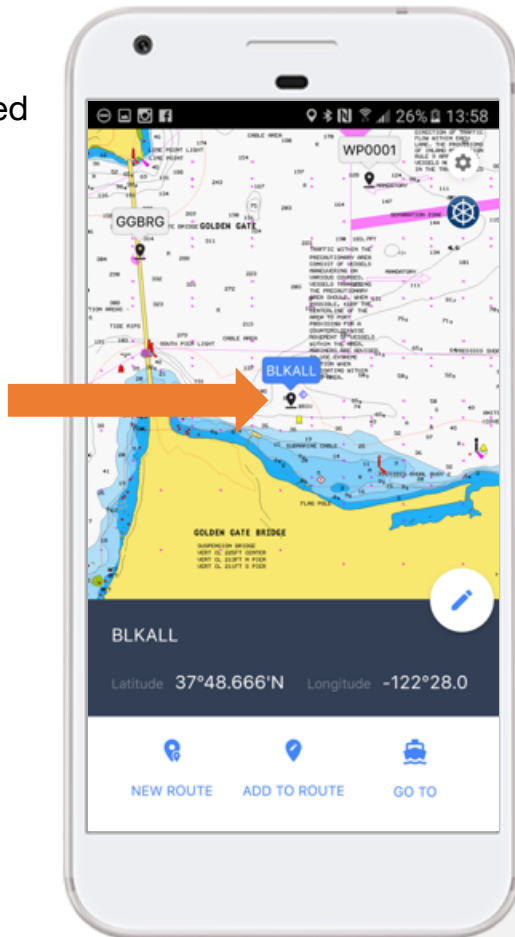
Editing a Waypoint can be done by selecting the Edit icon
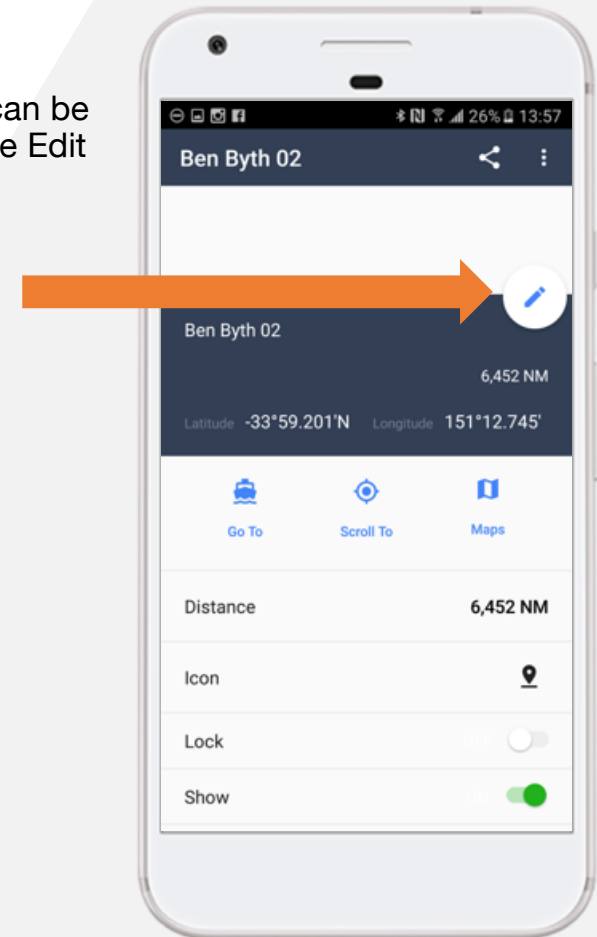
Navigating to a Waypoint

When a Waypoint is being navigated to, it's bearing distance, time to go, and cross track error will be displayed in the popup Instruments view and blue line from the current position to the Waypoint will be plotted on the Chart

- **Navigate to Waypoint** – Tap the Waypoint on the Chart View or select the desired Waypoint from the Waypoints Screen and select "**Go To**"
  - The selected Waypoint will change to "**Green**"
- **Cancel Waypoint Navigation** – select "**End**"
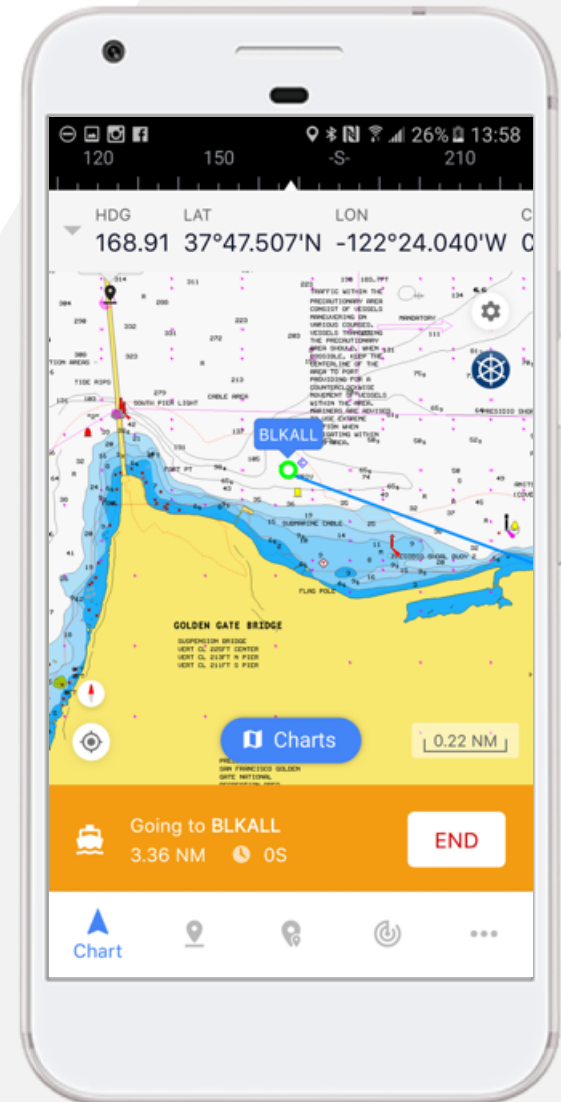
Creating a Route

A Route is a collection of one or more connected Waypoints

- **Routes** are accessed via the Routes menu

- Use the "**+**" button in the bottom right corner to create a new Route

- Use the "**Select Waypoint**" or the "**+**" button on the right side of the Route screen to add Waypoints to the Route

- Waypoints can also be added to a selected Route by tapping a waypoint name on the Chart view and selecting "**Add to Route**"
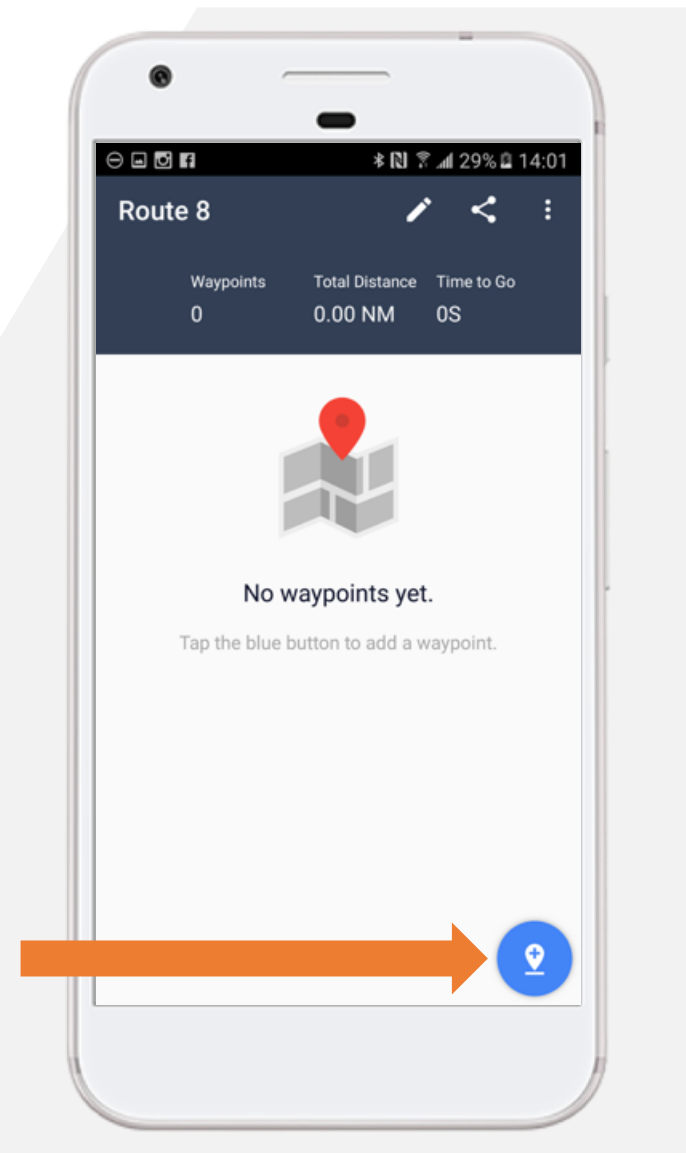
Editing a Route

To edit the route, select it from the route list

- ⛵ Use the "**+**" button to add more Waypoints
- ⛵ Use the "**Pencil Edit**" button to remove or reorder waypoints using the move icon to the left of the Waypoint name
  - ⛵ The "**Pencil Edit**" button will also allow a routes name to be changed

Slide across an individual Waypoint to bring up quick options

- ⛵ **Show** – display Route on Chart
- ⛵ **Go To** – can be selected to navigate to the Route's first Waypoint
- ⛵ **Delete** – delete the Route

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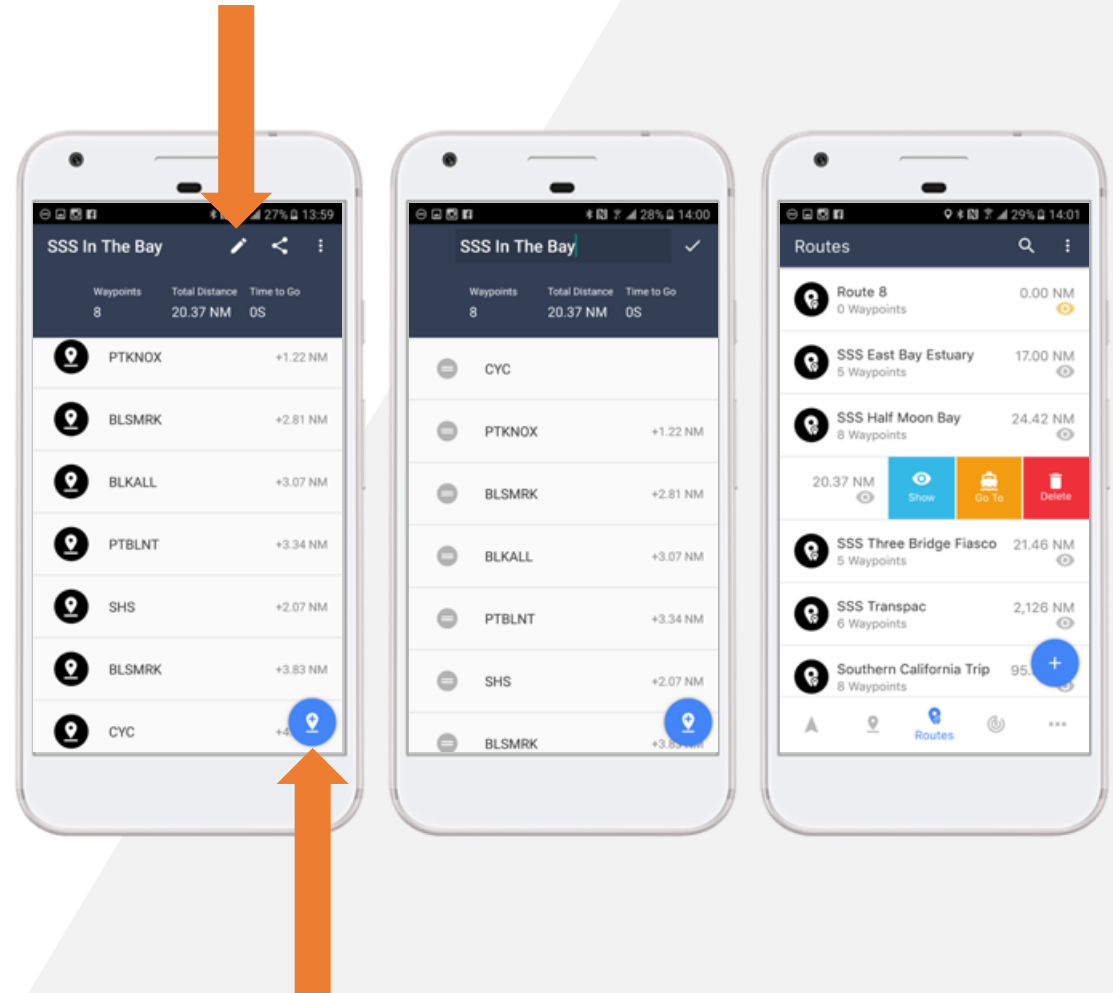
Navigating a Route

Selecting the "**Go To**" button in the Route View will begin navigation to the first Waypoint in the route

- Automatic advancement to the next waypoint in the route will occur if the current position is inside the arrival distance of a waypoint OR the current position crosses the line perpendicular to the waypoint origin line which passes through the waypoint
    - If the waypoint arrival distance is set to None, then no automatic advancement to the next waypoint will occur
- Subsequent waypoints in the route can be navigated to by selecting "Next" in the Route view
- When a waypoint in a route is being navigated to, it's bearing, distance, time to go, and cross track error will be displayed in the Instruments view and a blue line from the current position to the waypoint will be plotted on the chart. In addition the to distance, time to go to the last waypoint in the route and route name will be shown in the instruments view in the DTR:, TMR:, TOA: and RTN: fields.
    - Selecting those fields will display an extended view with all waypoints in the active route. The selected route will be plotted on the chart. The "**Cancel Go To**" button on the Waypoints view can be selected to end navigation to a waypoint
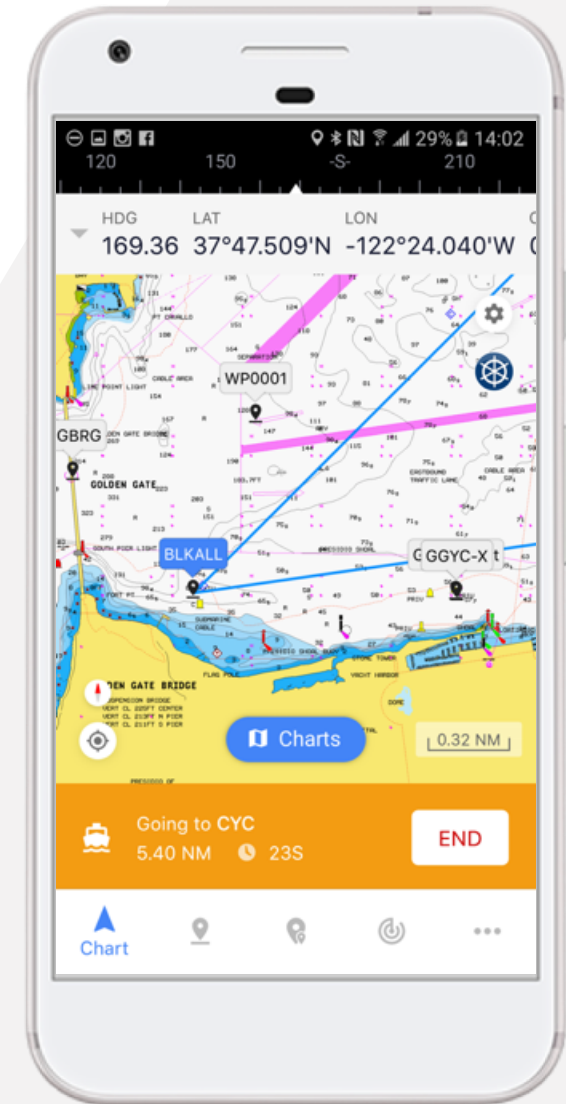
Tracking

Track is a log or recorded history of up to the last 500 NM travelled

Select **Record** to enable track logging

Select **Settings** to open Track Settings

- Select "**Track Back**" to create and navigate to a "**Track Back**" waypoint which dynamically traverses the inverted track history. Initially the navigation will be to the closest track segment within 50 NM

- Record Precision
    - Hi – create track point every 0.1 NM
    - Med – create track point every 0.2 NM
    - Low – create track point every 0.3 NM

- Enable "**Background Recording**" in order to have track records recorded even when **iNavX** is suspended. Note: This can drain the battery and only works with Location Services

- Select "**Export**" to transfer track from iNavX to Fugawi Account, Email or "**Share on Facebook**"
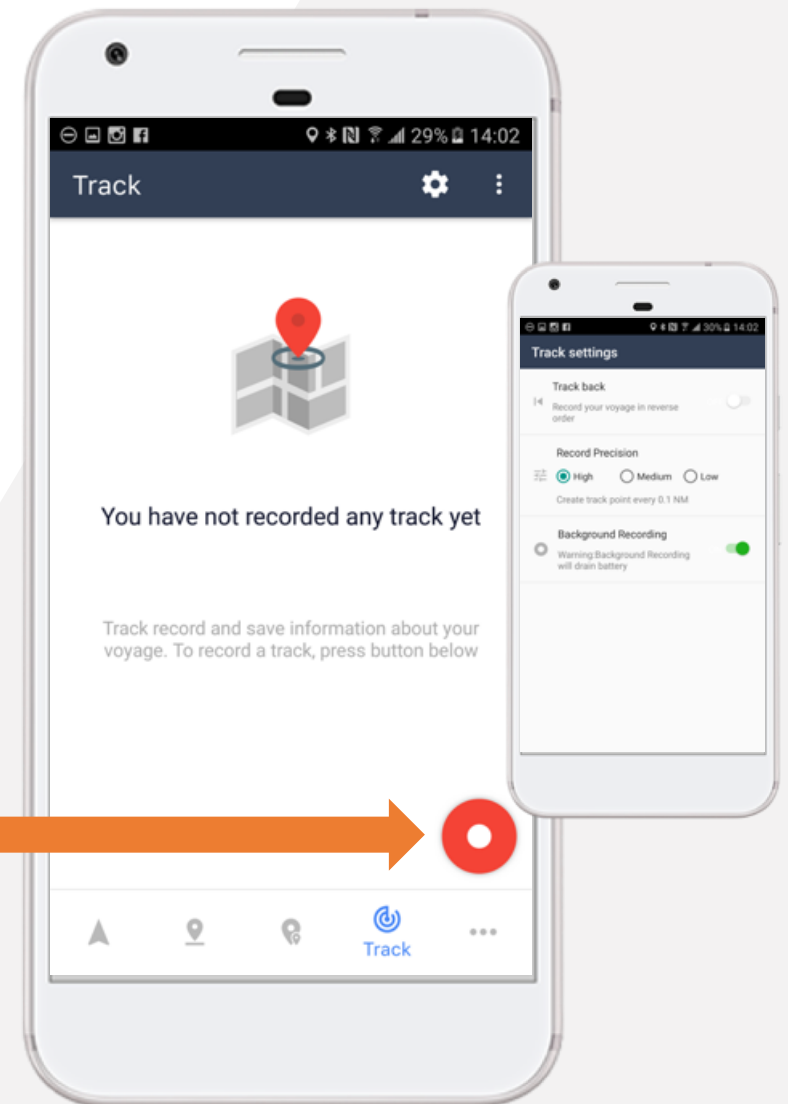
Anchor Alarm

The Anchor Alarm can be found under the "More" Tab > Tools & Forecast > Anchor Alarm

- The "**Anchor Alarm**" will trigger (audible and visual alert when enabled) if the position changes more then the selected NM distance

- In order for the Anchor Alarm to work, iNavX must be active (i.e. running) and have a good position fix (as indicated by "HPE:" in the Instruments view)

- The Anchor Alarm perimeter is plotted on the chart

- "**AAD**:" in the Instruments view will display the amount of drift

- Use the "**Anchor**" button to set the approximate location of the anchor relative to your position. Make sure the Anchor Alarm perimeter distance is greater then the distance to the anchor, otherwise the alarm will trigger immediately after enabling

- The "**Scope**" button can be used to get a recommended amount of anchor rope to deploy

- "**Test**" can be selected to simulate the alarm

- Anchor Alarm audio will repeat until "**Cancel**" button is selected or the Alarm view is dismissed with "**Save**" button. To make sure the audio alert can be heard, confirm the "**Mute**" button is not turned on AND The Volume slider in the device "**Settings**" "**General**" "**Sounds**" "**Ringer and Alerts**" is at maximum level. "**Change with Buttons**" can be enabled to allow the buttons on the side of the device to control the volume level
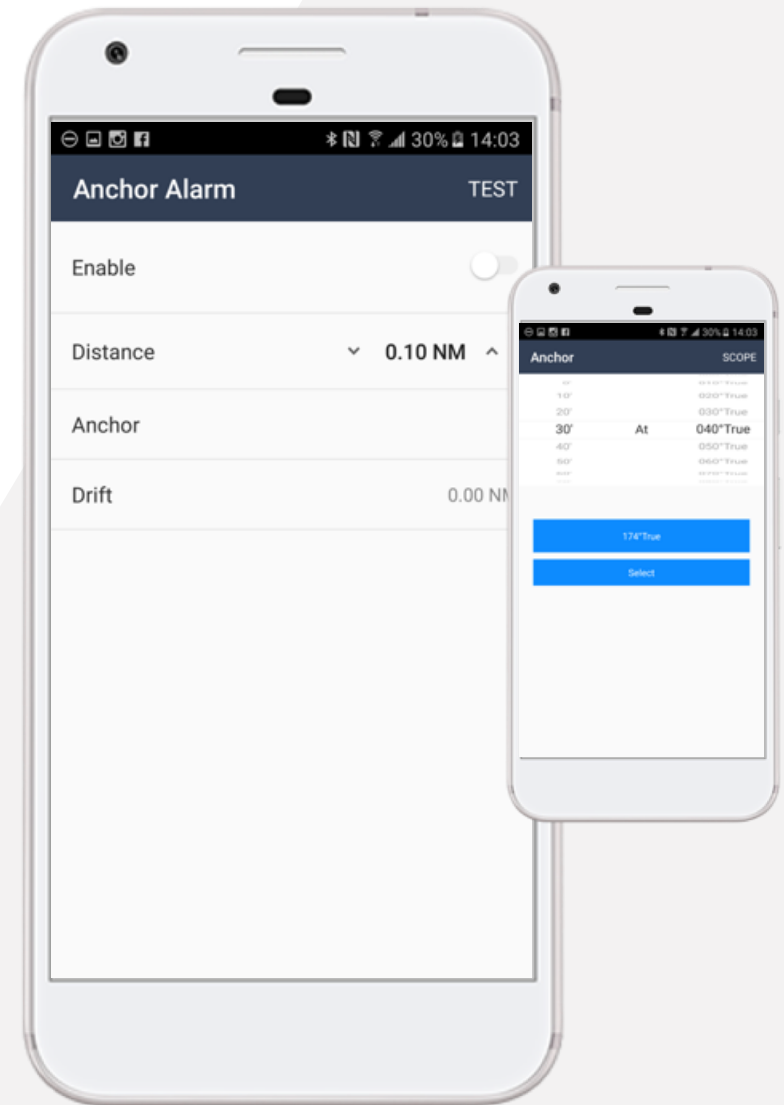
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Quick FAQs

Where do you get iNavX?
  iNavX in the iTunes App Store of Google Play Store.

Is there a charge for the high resolution NOAA US waters marine charts?
  No, iNavX comes with free access to the high resolution NOAA US waters marine charts

Is there a charge for the marine charts and maps?
  Yes. iNavX provides access to the largest chart and map library. All additional charts are available for purchase through the iNavX In-App Chart Store.

What areas do the marine charts and maps include?
  In addition to the NOAA US waters marine charts, iNavX provides access to the largest chart and map library. Visit the iNavX In-App Chart Store.
for more details.

Are the marine charts and maps the latest editions?
  Yes, since they download directly from an official chart server. They can be updated at any time during the subscription period.

Where can I learn more information about the NOAA US waters marine charts?
  Here – to see a list of NOAA Chart symbols and other information, use the search results from any Internet search engine with the phrase "NOAA chart No. 1"

Are the marine charts and maps stored locally on my device?
  Yes. This means once they are downloaded an internet connection is not needed to use the charts or maps.

How much storage space do the marine charts and maps take?
  Depends on how many charts and maps have been downloaded. Individual charts and maps can be deleted. Typical chart or map takes under 1 MB of storage.

Does iNavX need a cell or Wi-Fi internet connection to use the marine charts or maps?
  No. An internet connection is only needed to download selected charts and maps. Once charts and maps are downloaded they can be used at any time regardless of internet connectivity. Note: regular raster and vector charts download once and stay in memory with no further need of an Internet connection. However, Fugawi Aboard quilted charts need a connection when panning and zooming to new chart areas not previously downloaded. Charts in memory do not expire but Fugawi chart updates do cease once a subscription ends, and if device memory is reset of the device is replaced, Fugawi requires a chart subscription renewal.

What devices is iNavX compatible with?
  iNavX supports any iOS device running iOS7 or higher and any Android device running Android 5.0 or higher.

Does iNavX support the device compass?
  Yes. The compass will be used to orient the position icon on the chart including course up, the compass banner and the "HDG:" in the Instruments view. Course over ground can also be used.

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I have more than one device, can iNavX be installed on all devices?

Yes. iNavX is a universal app and will be made available to all devices with the same iTunes of Android Account.

Does iNavX track my location?

Yes, utilizing your devices in-built GPS, iNavX will actively track your location. This functionality also works without cell service.

Does iNavX work in places where there is not marine chart or map coverage?

Yes. There is a basic low scale world chart included and the instrument and waypoints functionality is not dependent on available or loaded charts.

Does iNavX work with the NOAA ENC vector charts?

No. The NOAA ENC vector chart coverage is incomplete and the NOAA ENC vector charts do not have the look of traditional paper charts.

I have charts on my PC or Mac, can I use those with iNavX?

No. iNavX downloads charts directly from a chart server, however many of the charts and maps available at Fugawi can also be used on a PC or Mac.

How much are iNavX updates?

No additional charge and all iNavX updates will arrive via the Apple iPhone app store or the Android Play Store

Does iNavX have analog graphics for instrument data?

Yes, tap on any instrument value and an analog graphic is available (speed, course, wind, satellites, route, depth).

Does iNavX support AIS receivers and transponders?

Yes via TCP/IP. Targets are plotted on the chart with real-world scaling. An AIS Transponder can be used to provide own position, speed and course to iNavX. SART and NavAids are supported.

Quick FAQs

Does iNavX support NMEA data?
   Recommended multiplexers:
- Brookhouse iMux WiFi multiplexer
- Brookhouse eMux WiFi multiplexer
- Comar NMEA-2-WiFi multiplexer
- DigitalYacht iAIS WiFi receiver & multiplexer
- DigitalYacht WLN10 WiFi multiplexer
- ShipModul Miniplex-2 WiFi multiplexer
- Redpark GPS Cable
- vYacht NMEA Wifi router
- DMK Yacht Instruments Box
- Vesper Marine XB-8000 / WatchMate Vision
- NMEA 2000 support: Chetco Digital Instruments SeaSmart WiFi OR
   Combine an Actisense NGW-1 ISO with one of the above multiplexers

I don't have an AIS receiver or transponder, is there another way to get AIS data into iNavX?
   Yes, in selected locals the SiiTech AIS server can be used. The SiiTech AIS server provides AIS targets within 30 NM of device position or any selected waypoint.

I have waypoints, routes, or tracks, how do I transfer those to/from iNavX?
   iNavX can import and export waypoints, routes and tracks via email and your Fugawi account. This includes sending to MotionX and Google Earth apps. iNavX can import and export waypoints, routes and tracks via iTunes

Can I upload my track to Google Earth?
   iNavX can export the track via Fugawi or via email

Does iNavX support GRIB weather forecasts?
   iNavX can import and display GRIBs via: Fugawi, email, iTunes, and Iridium GO! iNavX supports high resolution weather from Theyr via Fugawi

Is there a Full Screen mode in iNavX?
   Yes, with the tap of the screen the chart can be expanded to fill the entire view

Do charts in iNavX get backed up via USB synchronization or iCloud?
   NOAA Charts backup to iCloud if iCloud backup is enabled on the users device, but no chart files are archived to a computer hard drive

iNavX

Quick FAQs

What measurement units does iNavX support?

Nautical miles, statute miles, kilometers, yards, and meters, true and magnetic bearings, degrees and fractional minutes and degrees minutes and seconds. All distance and bearing measurements are computed using Great Circle routing.

Does iNavX include any AdWare?

No. It is our policy not to include any advertisements in our software.

What languages is iNavX localized in?

iNavX Android is only available in English.

iNavX iOS is available in English, Dutch, French, German, Italian, Spanish, Swedish.

Does iNavX support ActiveCaptain?

Not at this time, it is something we are considering for the future.

How to report Chart errors

To report a chart error, please follow the steps at the following link -

http://fugawi.com/knowledge_base/document/NA20000

iNavX

#1 Marine Navigation App

Website   http://inavx.com

Need more info? Contact us:

support@inavx.com

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