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12 NEAREST

The Nearest function provides detailed information for the 25 nearest airports, VORs, VRPs, NDBs, Intersections and User waypoints within 200 NM of your current position. In addition, the Nearest pages include the five nearest Flight Service Station (FSS) and center (ARTCC/FIR) points of communication and alert you to any Special Use (SUA) or Controlled Airspace you may be in or near.
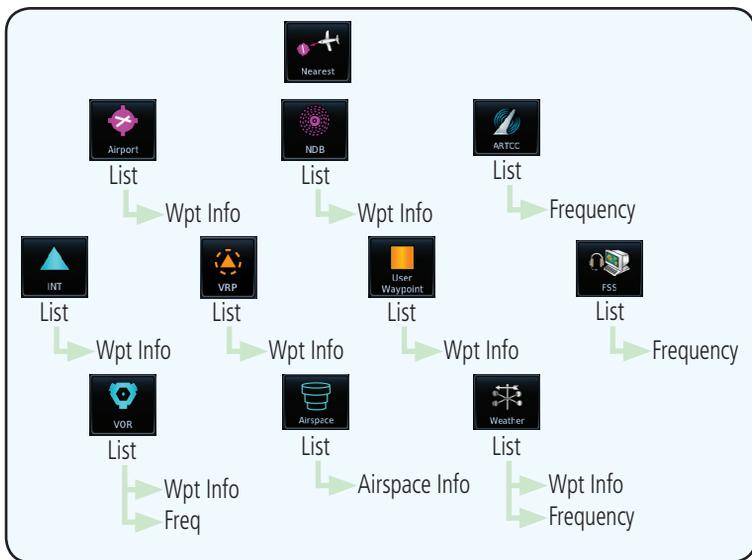

Nearest Waypoint Types

Figure 12-1 Nearest Page

Figure 12-2 Nearest Page Functional Map

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12.1 Select a Nearest Page

The available waypoint types are shown on the Nearest page. Touch the key to display the nearest 25 waypoint types (FSS and ARTCC will display up to five items). Not all 25 nearest waypoints can be displayed on the corresponding Nearest page at one time. The Nearest page displays detailed information for five nearest items.

1. On the Home page, touch the **Nearest** key.

2. Touch the desired waypoint type (Airport, VOR, etc.) and then touch the **Up** and **Down** keys on the lower right of the display to navigate through the list of available items. You can also touch an item on the list and drag your finger to scroll the list.

3. Touch the highlighted item to view more detailed information.

4. To navigate Direct-To the waypoint you're viewing, press the **Direct-To** key. The waypoint will be loaded into the Waypoint window of the Direct-To function.

5. Touch the **Activate** key to navigate directly to that waypoint.

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12.2 Nearest Airport

The Nearest Airport Page displays the identifier, symbol, bearing and distance, and the length of the longest runway for the 25 nearest airports (within 200 NM of your present position).

The Nearest Airport Page can be configured to exclude shorter runways or undesirable runway surface types, so that the corresponding airports do not appear on the list. You may wish to use this feature to exclude seaplane bases, heliports, or runway lengths which would be difficult or impossible to land upon. See *System - Setup - Nearest Airport Criteria* for information about configuring the Nearest Airport display criteria.

1. While viewing the Nearest function, touch the **Airport** key. A list of the nearest 25 airports within 200 NM will be listed.

Airport Identifier

Scroll Bar Indicates More Items On The List

Airport Information

Up/Down Keys Indicate More Items On The List

Figure 12-3 Nearest Airport

2. Touch the **Up** and **Down** keys to scroll through the list.

3. Touch the **Airport Identifier** key to show the Waypoint Info page for the selected airport.

Airport Information Referenced To Current Position

Touch A Key For More Airport Information

Figure 12-4 Nearest Airport Waypoint Info

4. Touch one of the keys (Map, Procedures, Runways, etc.) for more information about the selected airport.

12.3 Nearest Intersection (INT)

The Nearest Intersection Page displays the identifier, symbol, bearing and distance to the 25 nearest intersections (within 200 NM of your present position).

1. While viewing the Nearest function, touch the **INT** key. A list of the nearest 25 Intersections within 200 NM will be listed.

Intersection Identifier

Slider Indicates More Items On The List

Intersection Information

Arrow Indicates More Items On The List

Figure 12-5 Nearest Intersection List

2. Touch the **Up** and **Down** keys to scroll through the list.

Touch Screen And Drag Finger To View More Items On The List

Touch Arrows To View More Items On The List

Figure 12-6 Scrolling Down the Nearest Intersection List

3. Touch the **Intersection Identifier** key to show the Waypoint Info page for the selected Intersection.

Intersection Information Referenced To Current Position

Touch To View Intersection Map Detail

Figure 12-7 Nearest Intersection Waypoint Detail

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12.4 Nearest VOR

The Nearest VOR Page displays the identifier, symbol, bearing and distance to the 25 nearest VORs (within 200 NM of your present position). For each VOR listed, the Nearest VOR Page also indicates the frequency and may be used to quickly tune the Nav radio to the nearby VOR (GTN 650 only).

Touch the VOR Frequency key to place the frequency in the standby field of the Nav window. Touch the **Nav** Active window to flip/flop the Nav frequencies.

1. While viewing the Nearest function, touch the **VOR** key. A list of the nearest 25 VORs within 200 NM will be listed.
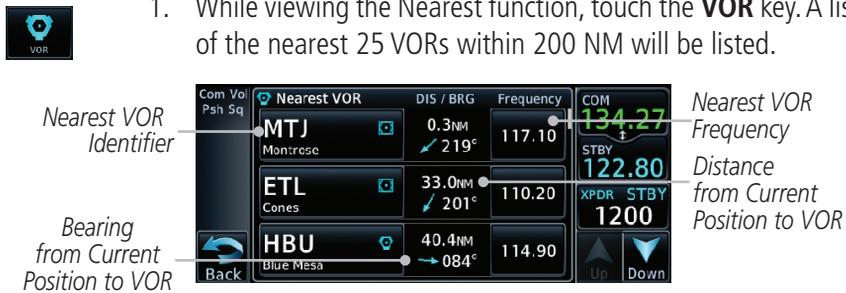
Nearest VOR Identifier

Bearing from Current Position to VOR

Nearest VOR Frequency

Distance from Current Position to VOR

Figure 12-8 Nearest VOR List and Information

2. Touch the **Up** and **Down** keys to scroll through the list.

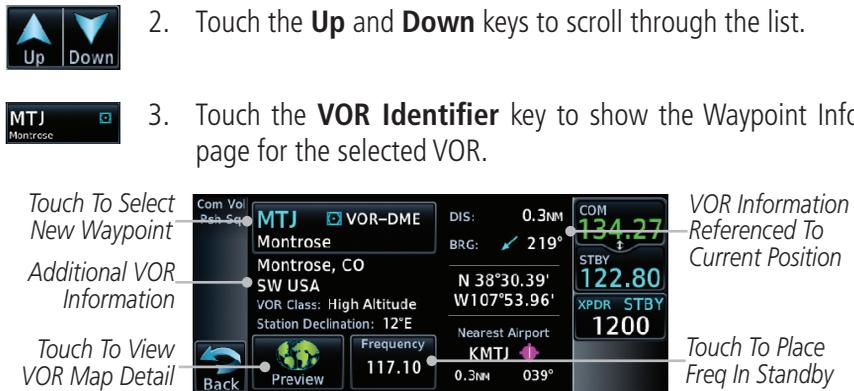3. Touch the **VOR Identifier** key to show the Waypoint Info page for the selected VOR.

Touch To Select New Waypoint

Additional VOR Information

Touch To View VOR Map Detail

VOR Information Referenced To Current Position

Touch To Place Freq In Standby

Figure 12-9 Nearest VOR Waypoint Information

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4. Touch the **Frequency** key on this page or from the Nearest VOR List page to place the selected frequency into the Nav Standby window. Touch the **Preview** key to view map detail.

VOR Frequency Inserted Into Standby Window. Touch To Flip/Flop Freqs

VOR Map Preview

Figure 12-10 Nearest VOR Frequency Entry

12.5   Nearest VRP

> *NOTE: This feature is available in software v6.20 or later.*

The nearest VRP Page displays the identifier, symbol, bearing, and distance to the 25 nearest VRPs (within 200 NM of your present position).

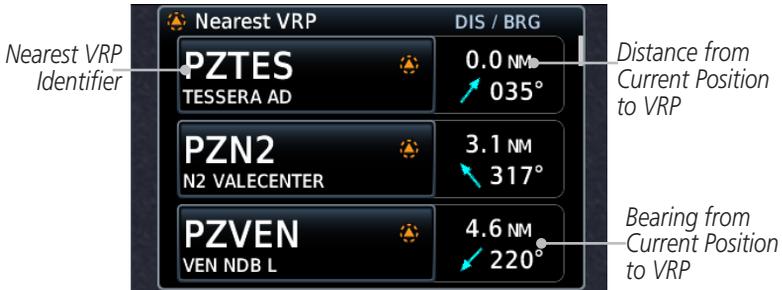1. While viewing the Nearest function, touch the **VRP** key.

Nearest VRP Identifier

Distance from Current Position to VRP

Bearing from Current Position to VRP

Figure 12-11 Nearest VRPs

2. Touch the **Up** and **Down** keys to scroll through the list.

3. Touch the **VRP Identifier** key to show the Waypoint Info page for the selected VRP.

VRP Information Referenced to Current Position

Additional VRP Information

Figure 12-12 Waypoint Info - Visual Reporting Point

12.6   Nearest NDB

The Nearest NDB Page displays the identifier, symbol, bearing, distance and frequency to the 25 nearest NDBs (within 200 NM of your present position).

1. While viewing the Nearest function, touch the **NDB** key. A list of the nearest 25 NDBs within 200 NM will be listed.

NDB Identifier. Touch For More Detail.

NDB Information

Arrows Indicate More Items On The List

Figure 12-13 Nearest NDB

2. Touch the **Up** and **Down** keys to scroll through the list.

3. Touch the **NDB Identifier** key to show the Waypoint Info page for the selected NDB.

Touch To Select New Waypoint

Additional NDB Information

Touch To View NDB Map Detail

NDB Information Referenced To Current Position

Figure 12-14 Nearest NDB Waypoint Information

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12.7 Nearest User Waypoint

The Nearest User Waypoint Page displays the name, bearing and distance to the 25 nearest user waypoints (within 200 NM of your present position).

1. While viewing the Nearest function, touch the **User WPT** key. A list of the nearest 25 User waypoints within 200 NM will be listed.

Nearest User Wpt Identifier

Distance and Bearing from Current Position to User Wpt

Figure 12-15 Nearest User Waypoint

2. Touch the **Up** and **Down** keys to scroll through the list.

3. Touch the **Nearest User Waypoint** Identifier key to show the Waypoint Info page for the selected User waypoint.

Delete Wpt

Identifier, Symbol, & References

Edit Wpt

Touch To View Area Map

Distance & Bearing To Wpt From Current Position

Distance & Bearing To Wpt From Reference Wpt

View All Wpts

Wpts Used

Figure 12-16 Nearest User Waypoint Information

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12.8 Nearest Airspace

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The Nearest Airspace Page, alerts you to as many as nine controlled or special use airspaces near or in your flight path. Alerts are provided according to the following conditions:

- If your projected course will take you inside an airspace within the next ten minutes, the alert message "*AIRSPACE ALERT - Airspace entry in less than 10 minutes*" appears. The Nearest Airspace Page shows the airspace as "Airspace Ahead."

- If you are within two nautical miles of an airspace and your current course will take you inside, the message "*AIRSPACE ALERT - Within 2nm of airspace*" appears. The Nearest Airspace Page shows the airspace as "Airspace Within 2 NM."

- If you are within two nautical miles of an airspace and your current course will take you inside in less than 10 minutes, the message "*AIRSPACE ALERT - Airspace within 2nm and entry in less than 10 minutes*" appears. The Nearest Airspace Page shows the airspace as "Ahead < 2 NM."

- If you have entered an airspace, the message "*AIRSPACE ALERT - Inside Airspace*" appears. The Nearest Airspace Page shows "Inside of airspace."

Note that the airspace alerts are based on three-dimensional data (latitude, longitude and altitude) to avoid nuisance alerts. The alert boundaries for controlled airspace are also sectorized to provide complete information on any nearby airspace. Once one of the described conditions exists, the message annunciator flashes, alerting you of an airspace message (if airspace alert messages are enabled). See *System-Alerts* to set the Arrival Alert Proximity, Airspace Type, and Altitude Buffer values.

> **NOTE:** The Airspace Alert setting does not alter the depiction of airspace, or change the Smart Airspace setting for the main map page.

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Figure 12-17 Airspace Sectors

1. While viewing the Nearest function, touch the **Airspace** key. A list of the nearest 25 Airspaces within 200 NM along the aircraft flight path will be listed, depending on the airspace types and values set by the user.

Figure 12-18 Nearest Airspace List

2. Touch the **Up** and **Down** keys to scroll through the list.

3. Touch the **Airspace Identifier** key to show the Waypoint Info page for the selected Airspace.

Figure 12-19 Nearest Airspace Waypoint Information

   Once you have been provided an airspace alert message, detailed information concerning the specific airspace is provided on the Nearest Airspace Page. The Nearest Airspace Page displays the airspace name, status ("AIRSPACE ALERT - inside Airspace," "AIRSPACE ALERT - Airspace entry in less than 10 minutes," etc.), and a time to entry (if applicable). By selecting any airspace name listed on the Nearest Airspace Page, additional details are provided — including controlling agency, communication frequencies and floor/ceiling limits.

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12.9 Nearest ARTCC

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The Nearest ARTCC page displays the facility name, bearing to, distance, and frequency to the five nearest ARTCC points of communication (within 200 NM of your present position). For each ARTCC listed, the Nearest ARTCC page also indicates the frequency(s) and may be used to quickly tune the COM transceiver to the center's frequency.

Touch the ARTCC Frequency key to place the frequency in the standby field of the COM window. Touch the **COM** Active window to flip/flop the Com frequencies (GTN 650 only).

1. While viewing the Nearest function, touch the **ARTCC** key. A list of the nearest 25 ARTCCs within 200 NM will be listed.

ARTCC Name and Information

ARTCC Frequency Key With Multiple Frequencies Available

ARTCC Frequency Key. Touch To Insert Into Standby Com.
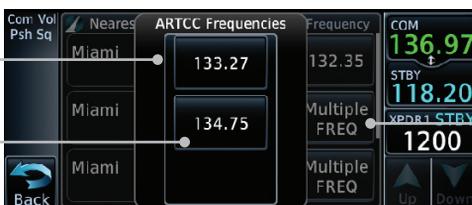
Figure 12-20 Nearest ARTCC

2. Touch the **Up** and **Down** keys to scroll through the list as needed.

3. The Frequency category will show "Multiple" keys if multiple frequencies are available. Touch the **Multiple FREQ** key to display the frequencies.

ARTCC Multiple Frequency List

Selected ARTCC Frequency Key

Touch To Flip/Flop Active And Standby Frequencies

ARTCC Multiple Frequency Key

Figure 12-21 Nearest ARTCC Multiple Frequency List

4. Touch the key for the desired frequency to place the selected frequency into the Com Standby window.

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12.10   Nearest Flight Service Station (FSS)

The Nearest Flight Service Station (FSS) page displays the facility name, bearing to, distance, and frequency to the five nearest FSS points of communication (within 200 NM of your present position). For each FSS listed, the Nearest FSS page also indicates the frequency(s) and may be used to quickly tune the COM transceiver to the FSS's frequency.

Touch the FSS Frequency key to place the frequency in the standby field of the COM window. Touch the **COM** Active window to flip/flop the Com frequencies (GTN 650 only).

1.   While viewing the Nearest function, touch the **FSS** key. A list of the nearest 25 FSSs within 200 NM will be listed.
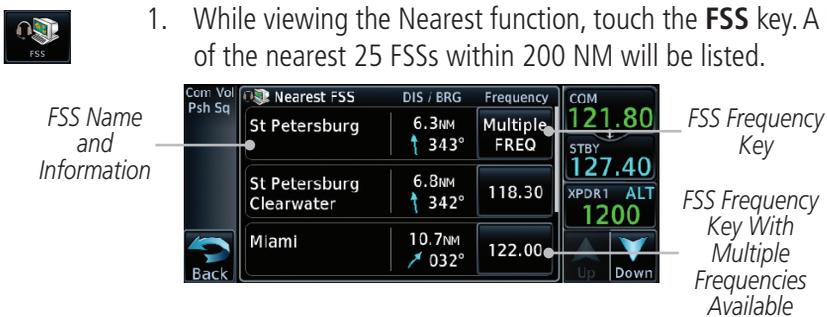
FSS Name and Information

FSS Frequency Key

FSS Frequency Key With Multiple Frequencies Available

Figure 12-22 Nearest FSS

2.   Touch the **Up** and **Down** keys to scroll through the list, if necessary.

3.   The **Frequency** key will show "Multiple" if multiple frequencies are available. Touch the "Multiple" **Frequency** key to display the frequencies.

4.   Touch the key for the desired frequency to place the selected frequency into the Com Standby window.
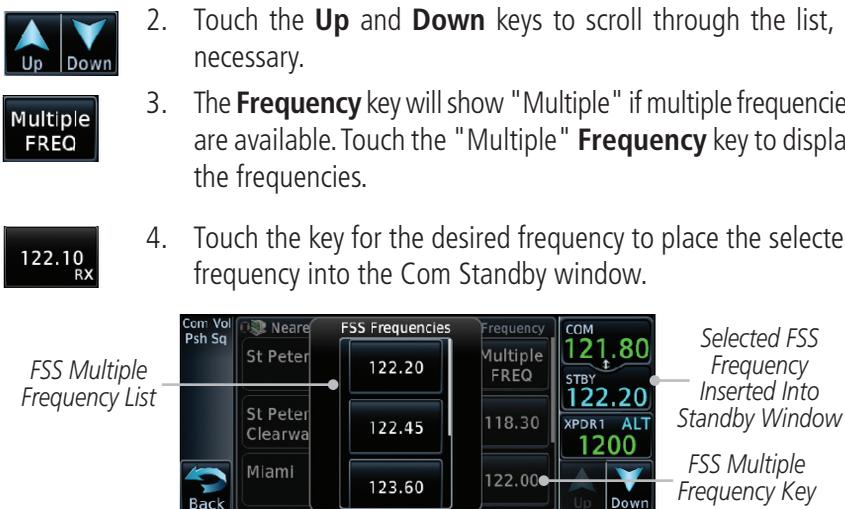
FSS Multiple Frequency List

Selected FSS Frequency Inserted Into Standby Window

FSS Multiple Frequency Key

Figure 12-23 Selected FSS Frequency From List

12.11 Nearest Weather Frequency (WX Freq)

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The Nearest WX FREQ function displays facility name, bearing to, distance, and frequency for the nearest 25 Automatic Terminal Information Service (ATIS), Automated Service Observing System (ASOS), and Automated Weather Observing Station (AWOS) weather reporting stations within 200 NM.

1. While viewing the Nearest function, touch the **WX FREQ** key. A list of the nearest 25 Weather stations within 200 NM will be listed.

Reporting Weather Waypoint Identifier

Distance and Bearing from Current Position to User Wpt

AWOS Frequency

ATIS Frequency

Arrows Indicate More Items On The List

Figure 12-24 Nearest Weather Station

2. Touch the **Up** and **Down** keys to scroll through the list, as needed.

3. Touch the key for the desired frequency to place the selected frequency into the Com Standby window.

Selected Weather Frequency Key

Selected Weather Frequency Inserted Into Standby Window

Figure 12-25 Nearest Weather Station Selected Frequency

4. Touch the **Weather Station Identifier** key to show the Waypoint Info page for the selected Weather station.

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