

AS WX 1 Satellite Weather Receiver

Installation & Operations Manual

531675-1_B



Accessory Manual

Thank You!

Thank you for choosing Humminbird®, America's #1 name in Fishfinders. Humminbird® has built its reputation by designing and manufacturing top-quality, thoroughly reliable marine equipment. Your Humminbird® accessory is designed for trouble-free use in even the harshest marine environment. In the unlikely event that your Humminbird® accessory does require repairs, we offer an exclusive Service Policy - free of charge during the first year after purchase, and available at a reasonable rate after the one-year period. For complete details, see the separate warranty card included with your accessory. We encourage you to read this operations manual carefully in order to get full benefit from all the features and applications of your Humminbird® product.

Contact our Customer Resource Center at **1-800-633-1468** or visit our web site at **www.humminbird.com**.

***WARNING!** This device indicates impending weather patterns; however weather conditions may move too quickly to allow adequate reaction time. It is the operator's responsibility to make prudent decisions regarding personal safety. This device should not be used as a replacement for official weather forecasts.*

***NOTE:** The AS WX 1 Satellite Weather Receiver is compatible with many Humminbird® models, and every effort has been made to note the differences between the models and functions throughout this manual. The illustrations in this manual may look different than your display, but your model will operate in a similar way.*

***WARNING!** It is prohibited to copy, decompile, disassemble, reverse engineer, or manipulate any technology incorporated in receivers compatible with the XM Satellite Radio system. The user of this or any other software contained in an XM Radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, or disassemble the object code, or in any other way convert the object code into human-readable form. The software is licensed solely for use within this product.*

***WARNING!** This product contains chemicals known to the State of California to cause cancer and/or reproductive harm.*

***WARNING!** Disassembly and repair of this electronic unit should only be performed by authorized service personnel. Any modification of the serial number or attempt to repair the original equipment or accessories by unauthorized individuals will void the warranty.*

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AS WX 1 Accessory Kit

The Humminbird® AS WX 1 Connection Kit includes the following items:

- XM Weather Receiver with 20' (6 m) cable
- Hardware kit for stem or deck mounting
- AS WX 1 Accessory Manual

***NOTE:** 10 foot extension cables are available as an optional purchase item. These can be used to extend the total receiver cable length up to 50 feet. Contact our Customer Resource Center at **1-800-633-1468** or visit our web site at www.humminbird.com.*

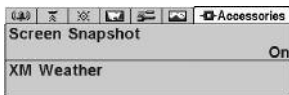
About XM WX Satellite Weather®

XM WX Satellite Weather® is a graphical weather data service provided by XM Satellite Radio. The service uses the XM network of geosynchronous satellites to deliver high-resolution weather data and forecasts.

XM WX Satellite Weather® Service Disclaimer

Hardware and required monthly subscription sold separately. Subscription fee is consumer only. Other fees and taxes, including a one-time activation fee may apply. All fees and weather data subject to change. XM WX Weather displays and individual product availability vary by hardware equipment. Reception of the XM signal may vary depending on location. Subscription subject to Customer Agreement included with the XM Welcome Kit and available at xmradio.com. Available only in the 48 contiguous United States. XM WX data is not available in Canada.

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How to Subscribe and Activate XM WX

The AS WX 1 Satellite Weather Receiver requires a monthly subscription from XM WX Satellite Weather®. Before the AS WX 1 Satellite Weather Receiver can be used on the water, the subscription must be activated on your Humminbird® control head.

To activate XM WX Satellite Weather®:

1. The **XM Radio ID** is required to set up the XM WX subscription.
 - 1a. Use a Y-Cable to connect a GPS and the AS WX 1 Satellite Weather Receiver to your Humminbird® control head. The slots are keyed to prevent reversed installation, so be careful not to force the connectors into the slots (see *Finish Routing the Cable* for details).
 - 1b. Power on the control head and start Normal (with transducer attached) or Simulator mode (without transducer attached).
 - 1c. Press the MENU key twice to open the Main Menu. Select the Accessories tab. Highlight XM Weather, and press the RIGHT Cursor key. Select XM Info, and press the RIGHT Cursor key. The Radio ID is the set of uppercase, alphanumeric characters shown here.

NOTE: The Radio ID can also be found on AS WX 1 Satellite Weather Receiver packaging or on the bottom of the receiver; however the Humminbird® control head must be powered ON with the receiver connected to complete the subscription activation process.

2. After you've noted the Radio ID, press the EXIT key to exit out of the Main Menu. Press the VIEW key until the Weather View is displayed. The Weather View is identified by the Signal Icon  on the screen.
3. Check the Signal Icon  to confirm that the unit is receiving a strong signal (4 bars). Move the receiver if the signal is weak. The most effective reception is outdoors, facing south, without any obstructions (i.e. people, trees, buildings), and at least 3 ft from the control head.
4. Contact XM on the web at www.xmradio.com and click Activate Radio, or call (800) 967-2346 or (800) 985-9200 to set up your account. **Refer to your Radio ID, and select "NavWeather Basic Package."**

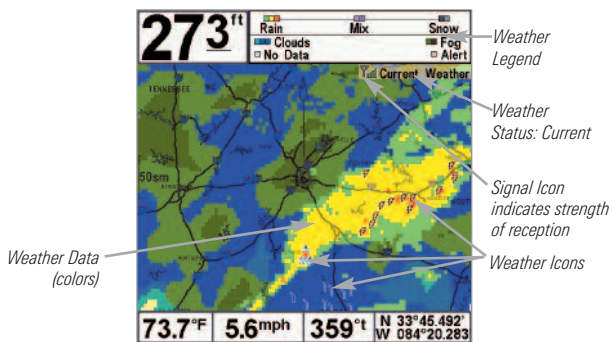
5. The control head will begin to receive the authorization data.

NOTE: The control head must stay powered ON the full amount of time to complete the subscription activation process, which may take up to 1 hour. When activation is complete, the diagonal lines will disappear, and the Weather View will display current weather conditions on the chart. The XM Info setting will also display "NavWeather Authorized" when the activation status is confirmed. See ***XM Weather Submenu*** for more information.

Activating XM WX Subscription
on the Humminbird® Control Head



Subscription Activation Complete



Installing the AS WX 1 Satellite Weather Receiver

Use the chart below to determine the appropriate mounting method for your AS WX 1 Satellite Weather Receiver. The instructions for each mount are described on the following pages.

***NOTE:** You must have an XM WX Satellite Weather® account and a GPS must also be installed on your boat and connected to your Humminbird® Fishing System.*

If you have...

See Installation Section...

An antenna stem with standard 1" – 14 thread

Stem Mount with 1" - 14 Thread

Access under mounting location

Access Under Mounting Location

No access under mounting location

No Access Under Mounting Location

***For Best Performance:** Mount the AS WX 1 Satellite Weather Receiver in an area that provides full exposure to the sky. The effective area of reception is 10° above the horizon, with a clear access to the south at all times.*

It is also important to separate the receiver at least 3 feet from the control head.

Stem Mount with 1" - 14 Thread

Stem Mount describes when you have purchased or have a pre-existing antenna pole to mount the AS WX 1 Satellite Weather Receiver.

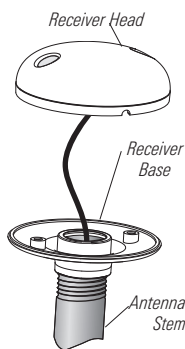
For Best Performance: Mount the receiver in an area that provides full exposure to the sky. The effective area of reception is 10° above the horizon, facing south. It is also important to separate the receiver at least 3 feet from the control head.

If you have a pre-existing stem mount, proceed to step 3.

1. Determine the best location to mount the antenna pole (stem). Preplan and test the cable routing to your Humminbird® unit before you start drilling or cutting any of your boat surfaces, and then route the 20' (6 m) cable to the planned mounting location.
2. Mark the location and drill a 3/4" (19 mm) hole for the cable and cable connector. If you have purchased hardware to stem mount your AS WX 1 Satellite Weather Receiver, follow the instructions included with that hardware to attach the stem to the boat.

NOTE: 10' extension cables may be purchased from Humminbird® if your planned cable route exceeds 20' (6 m). Maximum cable length, including extension cables, should not exceed 50' (16 m). Visit our web site at www.humminbird.com, or call our Customer Resource Center at 1-800-633-1468 to purchase extension cables.

Stem Mount, Attaching Receiver Base to Stem

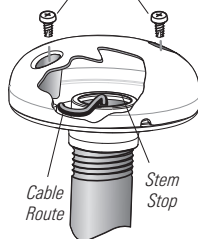


3. Screw on the receiver base to the stem first, making sure that the stem pipe does not protrude from the receiver base. This adds protection to the cable when pulling it through the pipe stem. Deburr the pipe edges to reduce cable abrasion.
4. Route the AS WX 1 Satellite Weather Receiver cable through the stem and continue with the planned cable route.
5. Attach the AS WX 1 Satellite Weather Receiver to its base using the included #6 - 1/4" screws. **Hand tighten only.**
6. Proceed to "Finish Routing the Cable and Check Operation."

Attaching the Receiver to the Base

(make sure cable is not pinched)

#6 - 1/4" Mounting
Screws



Access Under Mounting Location

Access Under Mounting describes when you can route the cable down through the mounting surface.

For Best Performance: Mount the receiver in an area that provides full exposure to the sky. The effective area of reception is 10° above the horizon, facing south. It is also important to separate the receiver at least 3 feet from the control head.

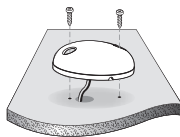
1. Determine the best location to mount, then test route the 20' (6 m) cable from the Humminbird® control head to the planned mounting location of the AS WX 1 Satellite Weather Receiver.

NOTE: 10' extension cables may be purchased from Humminbird® if your planned cable route exceeds 20' (6 m). Maximum cable length, including extension cables, should not exceed 50' (16 m). Visit our web site at www.humminbird.com, or call our Customer Resource Center at 1-800-633-1468 to purchase extension cables.

2. Mark the mounting location and drill a 3/4" (19 mm) hole for the cable and cable connector. Route the cable.
3. Cover the cable hole with the AS WX 1 Satellite Weather Receiver. Make sure the receiver is flush against the surface and mark the two mounting holes with a pencil or awl.
4. Move the receiver to the side and drill two pilot holes, using a 5/32" (4 mm) bit.

NOTE: Apply marine-grade silicone caulk or sealant to both screw and drilled holes as needed to protect your boat from water damage.

Access Under
Mounting Location



- Align the AS WX 1 Satellite Weather Receiver's screw holes over the pilot screw holes and attach with the #6 - 3/4" Phillips head screws. **Hand tighten only.**

NOTE: If the mounting surface is thin or made of a light-weight material, you may need to add reinforcing material below the mounting surface in order to support the AS WX 1 Satellite Weather Receiver.

- Proceed to "Finish Routing the Cable and Check Operation."

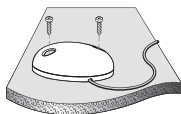
No Access Under Mounting Location

No Access Under Mounting describes when you must route the cable to the side because there is no space for a cable underneath the mounting location.

For Best Performance: Mount the receiver in an area that provides full exposure to the sky. The effective area of reception is 10° above the horizon, facing south. It is also important to separate the receiver at least 3 feet from the control head.

- Determine the best location to mount, then test route the 20' (6 m) cable from the Humminbird® control head to the planned mounting location of the AS WX 1 Satellite Weather Receiver.

No Access Under Mounting Location



NOTE: 10' extension cables may be purchased from Humminbird® if your planned cable route exceeds 20' (6 m). Maximum cable length, including extension cables, should not exceed 50' (16 m). Visit our web site at www.humminbird.com, or call our Customer Resource Center at 1-800-633-1468 to purchase extension cables.

2. Confirm that the cable length is adequate and route the cable from the receiver to the Humminbird® control head. If holes are required to route the cable, they must be 3/4" (19 mm) to allow for the cable connector.
3. The AS WX 1 Satellite Weather Receiver has two wire routing notches. Use the cable notch closest to the intended cable route.
4. With the cable routed, position the AS WX 1 Satellite Weather Receiver in the planned mounting location and mark the mounting holes with a pencil or awl.
5. Move the AS WX 1 Satellite Weather Receiver to the side and drill the two 5/32" (4 mm) pilot holes.

***NOTE:** Apply marine-grade silicone caulk or sealant to both screw and drilled holes as needed to protect your boat from water damage.*

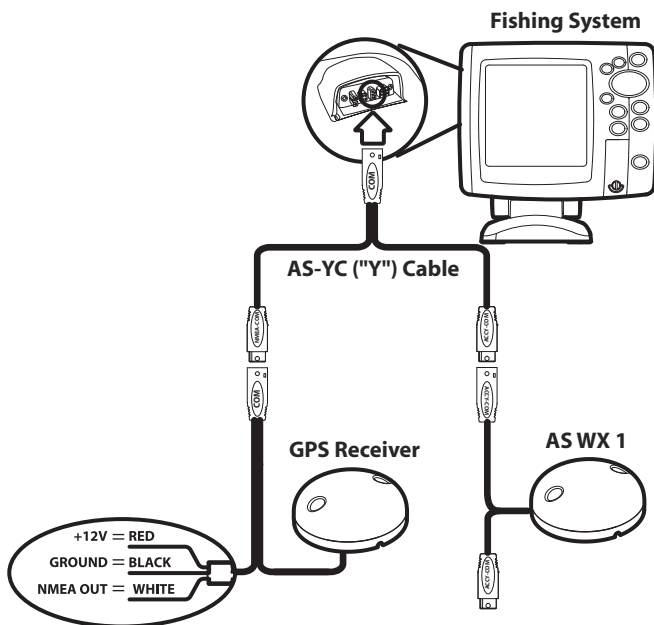
6. Align the screw holes of the AS WX 1 Satellite Weather Receiver over the pilot screw holes, and attach with the #6 - 3/4 Phillips head screws. **Hand tighten only.**
7. Proceed to "Finish Routing the Cable and Check Operation."

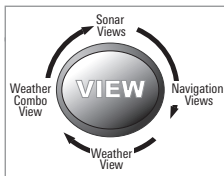
Finish Routing the Cable and Check Operation

Follow these steps to finish routing the AS WX 1 Satellite Weather Receiver cable between the control head and the receiver:

1. Secure the cable along its path to the control head as needed, using cable ties.
2. Insert a Y-cable's COM connector into the appropriate terminal slot on the back of the Humminbird® control head. Connect the GPS cable to the NMEA-COM connector, and attach the AS WX 1 cable to the ACCY-COM connector.

NOTE: The slots are keyed to prevent reversed installation, so be careful not to force the connector into the slot.





Views

When the AS WX 1 Satellite Weather Receiver is connected to your Humminbird® unit, the following views will be added to the View Rotation:


- Weather View
- Chart/Weather Combo View (*900/1100 only*)

NOTE: When you press the VIEW key, the display cycles through the available views on your screen. When you press the EXIT key, the display cycles through the available views in reverse order.

Your Fishing System will display the chart from the installed Unimap included in your model, from an optional-purchase NVB chart, or from an optional-purchase MMC/SD card chart. Weather data is displayed on the chart in the Weather View and the Chart/Weather Combo View, and the data refreshes every 2 minutes.

Weather View


Weather View displays current weather conditions within 400 statute miles from your boat. Forecasts and additional weather details can also be seen from this view. See the illustrations and descriptions on the following pages.

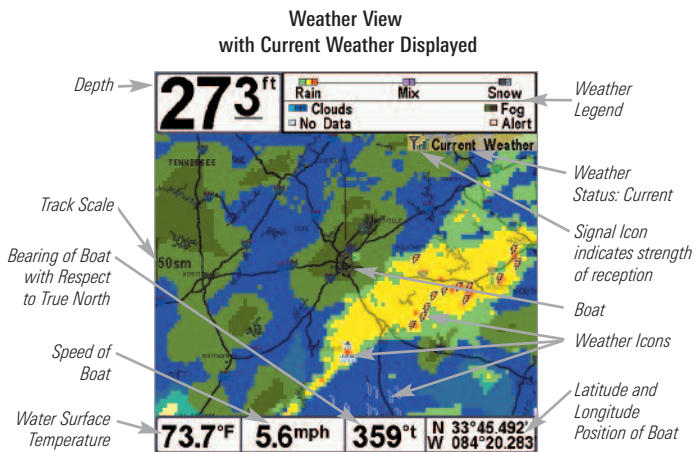
- **Current Weather** includes the visibility, winds, weather/precipitation, temperature, and road conditions. The current conditions are represented by weather icons and the colors on your screen.
- **Forecast Conditions** include hail or storm potential, the 30 minute forecast for your current location, and the forecast for over 150 selected cities across the nation.
- **Weather Alerts:** When there is a new alert, your Fishing System will display an alert banner on the screen, and the affected area will be highlighted by red blocks on the Weather View. Your Fishing System will display National Weather Service Advisories, Watches and Warnings, Baron Alerts and Warnings, and road closures. Press the EXIT key to read all subsequent weather alert banners.
- **City Forecasts and Spot Forecasts:** Use the 4-WAY Cursor Control key to move the cursor to a city icon  or other latitude/longitude position on the screen. Press the INFO key to view an information box which displays information about that area.
- **X-Press™ Menu:** Press the MENU key once to access the X-Press™ Menu in the Weather View. In the Weather Display menu option, you can select Current Weather or Forecast Weather. In Weather Detail Level, you can choose how much weather detail you would like to see on the screen. You can also start Loop Playback from the X-Press™ Menu. See *Weather X-Press™ Menu* for more information.

***NOTE:** Your Fishing System can display the chart from the installed Unimap included in your model or from an optional-purchase NVB chart or MMC/SD card chart. The weather information available will also depend on your Humminbird® model.*

Current Weather


Current Weather is the default display mode in the Weather View and displays the current weather within 400 statute miles from your boat. The Current Weather refreshes every 2 minutes and includes visibility, winds, weather/precipitation, temperature, and road conditions.

- **Weather Conditions** are represented by icons and colors on your screen (see *Weather Legend, Icons, and Select Readouts*).
- **Signal Icon**  shows the strength of the signal the AS WX 1 Satellite Weather Receiver is currently receiving.
- **Current Weather** is displayed next to the Signal Icon to indicate that current weather is displayed in the view.
- **Unavailable Conditions** are represented by diagonal lines over the chart in Weather View. To access information for a certain location, use the 4-WAY Cursor Control key to move the cursor to the location, and press the INFO key (also, see *Views: City and Spot Forecasts*).

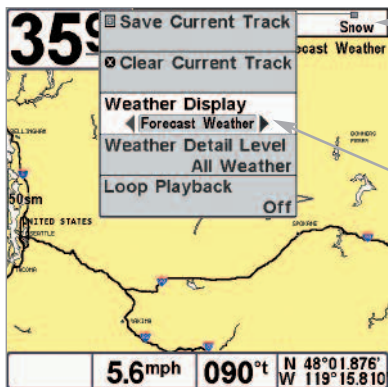


Forecast Conditions

Forecast Conditions can be selected to display the forecasted weather within 400 statute miles from your boat. Forecast Conditions refresh every 2 minutes and include hail or storm potential, the 30 minute forecast for your current location, and the forecast for over 150 selected cities across the nation.

- **View Forecast Information:** Press the MENU key once to access the Weather X-Press™ Menu, and select Forecast Weather from the Weather Display menu option.
- **Forecast Weather** is displayed next to the Signal Icon  to indicate that the weather forecast is being displayed in the view.
- **Forecast Conditions** are represented by colors on your screen. Weather icons are not displayed on the forecast display (see *Weather Legend, Icons, and Select Readouts*).
- **Unavailable conditions** are represented by diagonal lines over the chart in Weather View. To access information for a certain location, use the 4-WAY Cursor Control key to move the cursor to the location, and press the INFO key (also, see *Views: City and Spot Forecasts*).

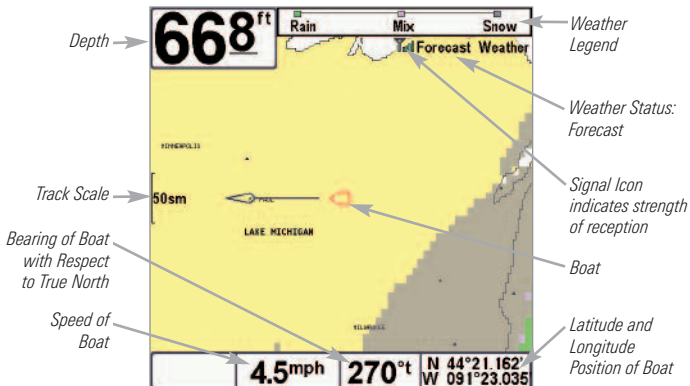
Weather View with Active X-Press™ Menu



Weather Legend

X-Press™ Menu with Forecast Weather selected from the Weather Display menu option

Weather View with Forecasted Weather Displayed



Weather Legend

Weather Status: Forecast

Signal Icon indicates strength of reception

Boat

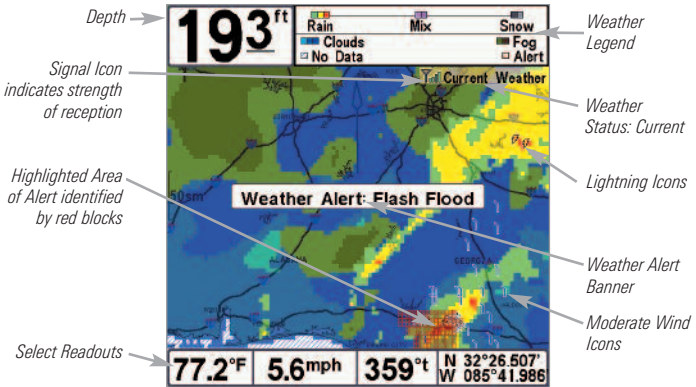
Latitude and Longitude Position of Boat

Weather Alerts

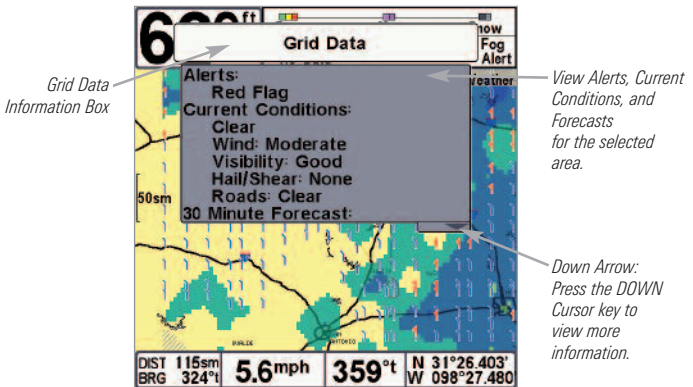
Your Fishing System displays National Weather Service Advisories, Watches and Warnings, Baron Alerts and Warnings, and road closures for the area you choose on your Fishing System.

- **Alert Radius:** The Fishing System will display warnings for the area you set in the Alert Radius menu option (see *XM Weather Submenu: Alert Radius*).
- **Weather Alert Banner:** When there is a new weather alert, your Fishing System will display a warning message on the screen.
- The **affected alert area** is highlighted by red blocks on the Weather View. The icons on the Weather View can also be used to identify dangerous weather conditions (see *Weather Legend, Icons, and Select Readouts*).
- If a view other than the Weather View is active on the screen, press the VIEW key to scroll to the Weather View for additional information.
- Press the EXIT key to remove a Weather Alert Banner from the screen. The Fishing System will display the next alert. Continue to press the EXIT key until you've read all of the Weather Alert Banners.
- Use the 4-WAY Cursor Control key to move the active cursor to anywhere within the highlighted alert area, and press the INFO key. Additional information about the weather alert will display in the **City Data** or **Grid Data Information box**. See *Views: City and Spot Forecasts* for more information.
- If you press the INFO key without using the cursor to pan to an area, the **Weather Info submenu** will display. You can search information in the following categories: Nearest Lightning, Nearest Hail/Storm Potential, Nearest Strong Weather, and Nearest City. See *Views: Weather Info Submenu* for more information.

Current Weather with Weather Alert Banner




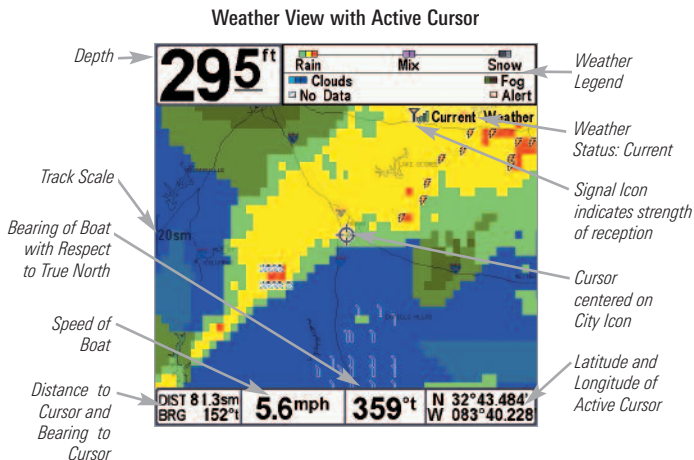
Active Cursor: Grid Data Information Box



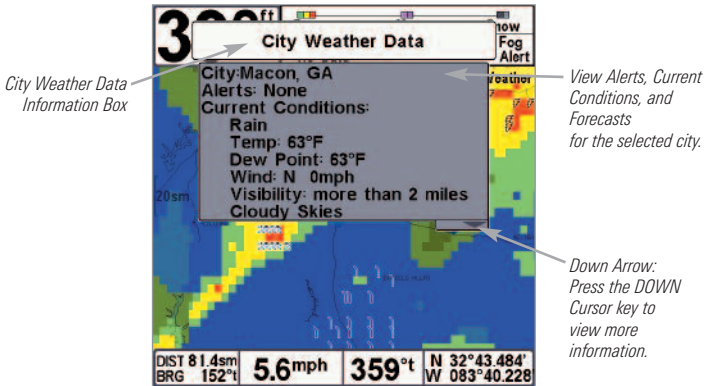
City and Spot Forecasts

The AS WX 1 displays current and forecasted weather information for over 150 cities. You can also choose an area that is not designated by a city icon to view current and forecasted weather information about that area.

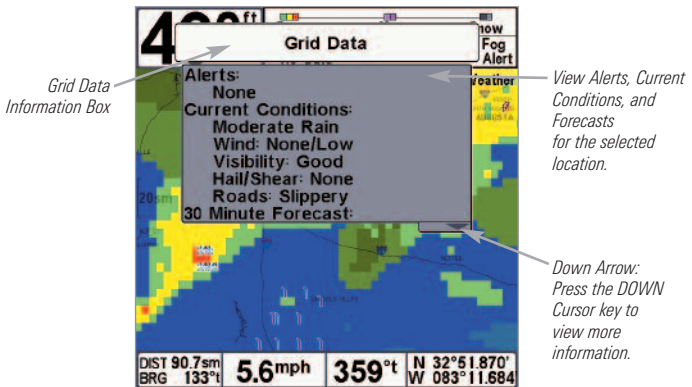
- **City Weather Data** includes Alerts, Current Conditions, and detailed Forecasted Conditions for the next 3 days and nights.
- **Grid Weather Data** reports weather conditions for the areas not designated as cities. Grid Weather Data includes Alerts, Current Conditions, Lightning, Winds, Visibility, Hail/Shear Potential, Road Conditions, and Forecasted Conditions.
- **Active Cursor:** Use the 4-WAY Cursor Control key to move the cursor to a city icon  or other latitude/longitude position on the screen. Press the INFO key to view the City Data information box or Grid Data information box for weather information about the selected area.
- **Inactive Cursor:** If you press the INFO key without using the cursor to pan to an area, the Weather Info submenu will display.



City Weather Data Information Box



Grid Data Information Box



NOTE: While you are moving the cursor, you might notice that weather data is not available. The weather data stays with your boat as you pan, however, once you press the INFO key, you can view the weather data for any area you choose.

Weather Info Submenu

The **Weather Info submenu** will display on the screen if the cursor is not active and you press the INFO key. The Weather Info submenu provides information for the area set in the Alert Radius or at least 60 miles, whichever distance is greater. Information can be viewed in each of the categories below.

- **Nearest Lightning** indicates the lightning within the alert radius.
- **Nearest Hail/Storm Potential** indicates the hail or storm potential within the alert radius.
- **Nearest Strong Weather** finds the closest heavy rain, heavy freezing rain or ice, heavy snow, or dangerous winds.
- **Nearest City** activates the cursor to the nearest city in relation to your current position. Press the INFO key to view the City Data information box.
- **“No results found within search area”** If there are no weather conditions to report for the category you select, your Fishing System will display this message.

Weather Info
Nearest Lightning
Nearest Hail/Storm Potential
Nearest Strong Weather
Nearest City

To view Weather Info submenu:

1. From the Weather View, press the INFO key to access the Weather Info submenu.
2. Press the UP or DOWN Cursor key to choose a category, and press the RIGHT Cursor key to access the information for each category.

Loop Playback

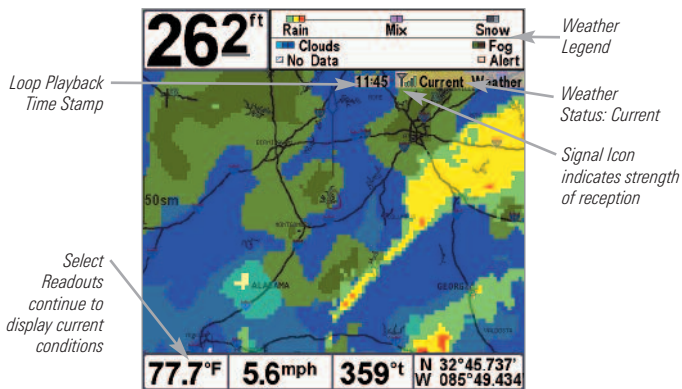
(788c-ci, 786ci, 798c-ci, 900 Series™, and 1100 Series™ only)

Loop Playback shows the most recent 60 minutes of weather data in a 15 second playback on the Weather View. The weather data recording begins automatically when the unit is powered on. When the unit is powered off, the Loop Playback is reset.

Loop Playback is useful for observing weather patterns and how fast those patterns are moving.

- **To Start or Stop Loop Playback:** Press the MENU key once to access the X-Press™ Menu in the Weather View. Highlight Loop Playback, and press the RIGHT or LEFT Cursor key to select On or Off. See *Weather X-Press™ Menu* for more information.
- **Watching the Loop Playback:** Loop Playback will play the recording and then pause on the screen before repeating the playback. If the Fishing System has been powered on for less than 60 minutes, the Loop Playback will show a blank screen for part of the playback. If you cannot see the Loop Playback in the Weather View, press the (-) ZOOM key to zoom out.
- **Time Stamp** displays next to the Signal Icon and indicates the time the weather data was recorded. The time stamp updates in 15 minute intervals so that you can see the progression of the weather patterns over time.
- **Select Readouts** continue to display the current conditions for your Fishing System. **Icons** are not displayed in the Loop Playback.

Loop Playback

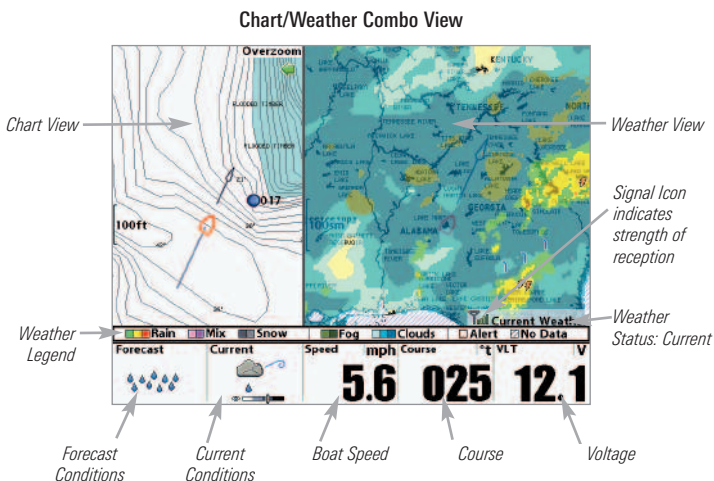


Chart/Weather Combo View

(900 Series™ and 1100 Series™ only)

Chart/Weather Combo View is displayed as a split screen, with Track or Chart View in one window and Weather View in the second window.

- **Active Side:** You can perform any of the functions for either side of the Combo View, but the view you want to control must be selected as the active side. Press the MENU key once to open the X-Press™ Menu and choose from Active Side (see *Weather X-Press™ Menu*).
- **Split Position:** After you choose an active side of the Combo View, you can adjust the screen size for the side of the Combo View. Press the MENU key once to open the X-Press™ Menu and adjust the setting in the Split Position menu option (see *Weather X-Press™ Menu*).










NOTE: The Chart/Weather Combo view is not available in the 700 Series™.

Weather Legend, Icons, and Select Readouts

In both the Weather View and the Chart/Weather Combo View, weather conditions are identified by the colors on the chart, the icons on the chart, and the information displayed in the Select Readout windows at the bottom of the view. You can choose to display selected or all weather data (see *Weather X-Press™ Menu*).

The **Weather Legend** displays colors on the chart in the Weather View and Chart/Weather Combo View to indicate the weather conditions within 400 statute miles from your boat.

Weather Legend

	<u>Rain</u> Green = Light Rain, Yellow = Moderate Rain, Red = Heavy Rain
	<u>Mix</u> Light Pink = Ice or Snow/Rain Mix, Dark Pink = Heavy Ice or Heavy Snow/Rain Mix
	<u>Snow</u> Dark Gray = Snow, Light Gray = Heavy Snow
	<u>Fog</u> Light Olive = Fog, Dark Olive = Heavy Fog
	<u>Clouds</u> Light Blue = Partly Cloudy, Medium Blue = Mostly Cloudy, Dark Blue = Overcast
	<u>Alert:</u> Area of alert. Red boxes will highlight the alert area.
	<u>No Data:</u> No data available.

The **Icons** displayed on the chart in Weather View or Chart/Weather Combo View identify current and potential weather conditions, as well as information related to the AS WX 1 Satellite Weather Receiver equipment.

Weather Chart Icons



Signal Strength: Strong Reception = 4 bars, and Weak Reception = 0 to 1 bar. **See Installation or Troubleshooting** to improve reception.



City Icon: Indicates city forecast information availability. Use the 4-WAY Cursor Control key to move the cursor to a city icon and press the INFO key to view weather data for the selected city.



Hail Potential: Indicates the possibility of hail in the area marked on the chart. The number displayed with the Hail Potential icon indicates the number of minutes the hail condition will most likely begin.



Lightning: Current lightning in the area on the weather chart.



Shear Potential: Indicates the possibility of abrupt wind force in the area marked on the chart. The number displayed with the Shear Potential icon indicates the number of minutes the shear condition will most likely begin. (Range: 1 to 20 minutes).

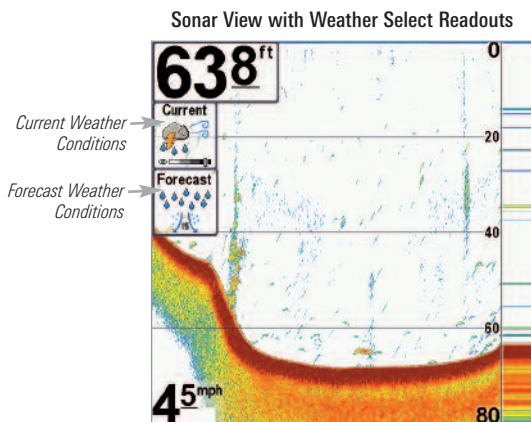


Dangerous Wind: Current high wind conditions in the area, threatening wind conditions.



Moderate Wind: Current temperate wind conditions in the area, medium wind conditions.

Select Readouts display current and forecasted weather conditions in the digital readout boxes of your Fishing System. The Select Readouts appear on the Sonar View in the 700 Series™ and in the standard readout boxes in the 900 Series™ and 1100 Series™. See *The Menu System: Select Readouts* for more information.



NOTE: For specific Select Readout information for your Humminbird® model, see your fishing system operations manual.

Current Conditions in the Select Readouts window display the current weather conditions using the icons shown here.

Select Readouts: Current Conditions



Clear Sky



Lightning



Mostly Clear Sky
with Few Clouds



Light Rain



Partly Cloudy



Moderate Rain



Mostly Cloudy



Heavy Rain



Overcast



Snow



Fog



Heavy Snow



Heavy Fog



Ice or Snow/Rain Mix



Heavy Ice or
Heavy Snow/Rain Mix

Select Readouts: Current Conditions (contd.)



Clear Visibility



Low Wind



Marginal Visibility



Moderate Wind



Patchy Visibility



Heavy Wind



Poor Visibility



Data Unavailable

Forecast Conditions in the Select Readouts window display the forecasted weather conditions using the icons shown below.

Select Readouts: Forecast Conditions



Dry Weather



Hail and Shear
Potential within
0 to 5 minutes



Rain



Hail and Shear
Potential within
5 to 15 minutes



Snow



Hail and Shear
Potential within
15 to 25 minutes



Rain/Snow Mix

The Menu System

The **Menu System** is divided into easy-to-use menu modules, and the available menu options will vary with the Humminbird® model.

When the AS WX 1 Satellite Weather Receiver is connected to your Humminbird® model, corresponding features and menus are added to the fishing system, which are described on the following pages. For your model's standard menu information, consult your fishing system operations manual.

The main components of the menu system are as follows:

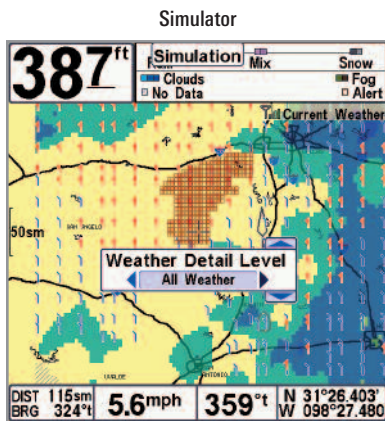
- **Start-Up Options Menu:** Press the MENU key during the power on sequence to view the Start-Up Options Menu. From the Start-Up Options Menu, you can choose the following Fishing System modes: Normal, Simulator, and System Status.
- **X-Press™ Menu:** The X-Press™ Menu provides a shortcut to the most frequently-used settings, and the options on the X-Press™ Menu correspond with the current view. Press the MENU key once in any view to access the X-Press™ Menu.
- **Main Menu:** Press the MENU key twice to access the Main Menu, and then press the RIGHT Cursor key to select a main menu tab. The Main Menu is organized under the following tabbed headings: Alarms, Sonar, Navigation, Chart, Setup, Views, and Accessories.

***NOTE:** Menu options will vary with the Humminbird® model. Also, the X-Press™ Menu(s) and the Main Menu options can be expanded or simplified by setting the User Mode to Advanced or Normal in the Setup main menu.*

Simulator (Start-Up Options Menu)

Use **Simulator** to pre-configure your Fishing System and learn more about the AS WX 1 Satellite Weather Receiver functions before taking your boat on the water. The Simulator is a very powerful tool that provides a randomly-updated display which simulates on the water operation.

- The AS WX 1 Satellite Weather Receiver must be connected to the control head to access the weather settings in Simulator Mode.
- Select Simulator from the Start-Up Options Menu at Power Up. Any menu changes you make will be saved for later use.
- A message appears periodically on the screen to remind you that you are using the Simulator.
- Exit the Simulator by powering your Fishing System off.



NOTE: We recommend going through this manual while using the Simulator, since all of the menu functions affect the display in the same way as they would in Normal operation. To get the full benefit of the Simulator, it is important to select Simulator manually from the Start-Up Options Menu as opposed to letting the Fishing System enter Simulator automatically (as it will if a transducer is not connected and you do nothing during power up).

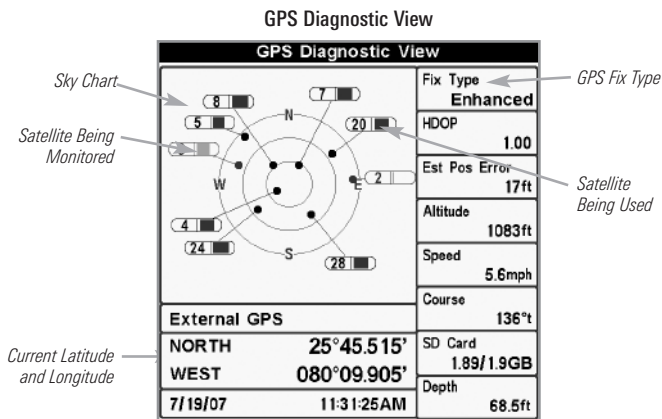
System Status *(Start-Up Options Menu)*

Use **System Status** to view system connections and to conduct a unit self-test.

After you select System Status from the Start-Up Options Menu, press the VIEW key to display the following information views:

- **Self Test:** displays results from the internal diagnostic self test, including unit serial number, Printed Circuit Board (PCB) serial number, software revision, total hours of operation, and the input voltage.
- **Accessory Test:** lists the accessories connected to the system.
- **GPS Diagnostic View:** shows a sky chart and numerical data from the GPS receiver. The sky chart shows the location of each visible GPS satellite with its satellite number and a signal strength bar.

***NOTE:** A GPS Fix is required to identify your location and load weather data. Use this view to confirm GPS Fix Type. For an XM Diagnostic View, see **XM Weather Submenu: XM Info**.*



The current GPS Fix Type is reported as No Fix, 2D Fix, 3D Fix, or Enhanced. An Enhanced fix has been augmented using information from WAAS, EGNOS, or MSAS. A 3D or Enhanced Fix is required for navigation.

◀▶	Active Side	
	◀	▶
	Right	
▶	Split Position	40
📍	Save Current Track	
⊗	Clear Current Track	
📍	Waypoint S00369	
	Weather Display	
	Current Weather	
	Weather Detail Level	
	All Weather	
	Loop Playback	Off

Weather X-Press™ Menu


Weather X-Press™ Menu

(Weather Views only)

The **Weather X-Press™ Menu** will be added to the menu system when the AS WX 1 Satellite Weather Receiver is connected to the Fishing System.

Press the MENU key once while in the Weather View or Chart/Weather Combo View to access the Weather X-Press™ Menu.


NOTE: Active Side and Split Position are available in the 900 Series™ and 1100 Series™ only.

Weather DisplayA rectangular menu box with a black border. The top part contains the text "Weather Display" in bold. Below it, a horizontal bar contains the text "Current Weather" in bold, flanked by left and right arrow symbols.**Weather Display**

Weather Display allows you to choose if you want to view current or forecasted weather on the Weather View. Current Weather displays the present weather conditions. Forecast weather displays the 30 minute forecast for the selected area. The screen refreshes at 2 minute intervals in both view modes.

To select the Weather Display mode:

1. Highlight Weather Display on the Weather X-Press™ Menu.
2. Press the RIGHT or LEFT Cursor key to choose Current Weather or Forecast Weather. (Current Weather, Forecast Weather; Default = Current Weather)

Weather Detail LevelA rectangular menu box with a black border. The top part contains the text "Weather Detail Level" in bold. Below it, a horizontal bar contains the text "All Weather" in bold, flanked by left and right arrow symbols.**Weather Detail Level**

Weather Detail Level allows you to choose how much weather data to display on the Weather View.

To set the Weather Detail Level:

1. Highlight Weather Detail Level on the Weather X-Press™ Menu.
2. Press the RIGHT or LEFT Cursor key to choose which weather data to display. (All Weather, Color Grid Only, Alert Icons Only; Default = All Weather)



Loop Playback *(788c-ci, 786ci, 798c-ci, 900 Series™, and 1100 Series™ only)*

Loop Playback shows the most recent 60 minutes of weather data in a 15 second playback on the Weather View. This function is useful for observing weather patterns (see *Views: Loop Playback* for details).

The weather data recording begins automatically when the unit is powered on. When the unit is powered off, the Loop Playback is reset.

To start or stop Loop Playback:

1. Highlight Loop Playback on the Weather X-Press™ Menu.
2. Press the RIGHT or LEFT Cursor key to begin or end playback. To start Loop Playback, select ON. To stop Loop Playback, select OFF. (On, Off; Default = Off)



Active Side *(900 Series™ and 1100 Series™ only)*

Active Side allows you to select which side of a Combo View will be active; key presses will only affect the active side of the screen. When a menu is displayed, the non-active side of the screen will be grayed out; at any other time, a green arrow will point to the active side. The Active Side menu option is only available when a Combo View is active.

To select the Active Side:

1. From the Chart/Weather Combo View, highlight Active Side on the Weather X-Press™ Menu.
2. Press the RIGHT or LEFT Cursor key to change which side is active. (Left, Right; Default = Left)



Split Position

(900 Series™ and 1100 Series™ only)

Split Position allows you to adjust the size of the left side of the Combo View. You can also adjust each side independently by first selecting the view in the Active Side menu option.

The number setting indicates the percentage taken up by the left side of the Combo View. Selecting Left sets the left side of the screen to its smallest setting. The Split Position menu option is only available when a Combo View is active.

To adjust Split Screen Position:

1. From the Chart/Weather Combo View, highlight Split Position on the Weather X-Press™ Menu.
2. Press the RIGHT or LEFT Cursor key to change the size of the left side of the split screen. (Left, 30, 40, 50, 60, 70, Right; Default varies)

Select Readouts	
Readout 1	Depth
Readout 2	Current Weather
Readout 3	Forecast Weather
Readout 4	Course
Readout 5	Speed

Select Readouts

Select Readouts

(Setup Main Menu: Advanced)

The **Select Readouts** menu option allows you to set the information that will be displayed in each of the fixed-position data windows arranged around the left and bottom edges of the screen, or whether a particular window will be turned off, displaying nothing in that area.

Weather information that can be displayed includes the following:

- Forecast Weather
- Current Weather

The customized **Select Readouts** appear in the Sonar View in the 700 Series™ and in the standard readout boxes in the 900 Series™ and 1100 Series™.

*NOTE: See **Weather Legend, Icons, and Select Readouts** for additional information.*

NOTE: The availability of the select readout information corresponds with the view selected, the accessory attached, and whether or not you are navigating.

To change Select Readouts:

1. Make sure the User Mode is set to Advanced, then highlight Select Readouts on the Setup main menu.
2. Press the RIGHT Cursor key to access the Select Readouts submenu.
3. Press the UP or DOWN Cursor key to select a Readout position, then press the RIGHT or LEFT Cursor key to choose what will be displayed in that position. To hide the data window, select Off. (Forecast, Current Weather, Off)

Views	
Bird's Eye View	Visible
Chart View	Visible
Combo View	Visible
Chart/Side Combo View	Visible
Side Imaging View	Visible
Sonar/Side Combo View	Visible
Sonar View	Visible
Sonar Zoom View	Visible
Split Sonar View	Hidden
Big Digits View	Visible
Circular Flasher View	Visible
Snapshot and Recording View	Visible
XM Weather View	Visible
Self Test	Hidden
Accessory Test	Hidden
GPS Diagnostic View	Hidden

Views Menu

Views Menu Tab

From any view, press the MENU key twice to access the tabbed Main Menu, then press the RIGHT Cursor key until the Views tab is selected.

This menu tab allows you to set the available views to Hidden or Visible in the view rotation. The view will be removed from the view rotation if it is set to Hidden and will be displayed in the view rotation if it is set to Visible.

NOTE: See Views for more information.

To Hide or Show a view:

1. Press the UP or DOWN Cursor key to select a View from the Views main menu.
2. Press the LEFT or RIGHT Cursor key to change the status of the view to Hidden or Visible.

XM Weather
Legend
On
Alert Radius
180sm
XM Info
XM Diagnostic

XM Weather Submenu

XM Weather Submenu

(Accessories Main Menu)

Highlight XM Weather in the Accessories main menu, and press the RIGHT Cursor key to access the XM Weather submenu, which includes the following options:

- Legend
- Alert Radius
- XM Info
- XM Diagnostic

Legend



Legend

Legend allows you to turn the weather legend on or off. You can still view the colors on the Weather view, but you will have more space on the view to see the data.

To turn on/off the Weather Legend:

1. Highlight Legend on the XM Weather submenu.
2. Press the RIGHT or LEFT Cursor key to choose on or off. (On, Off, Default = On)

Alert Radius 60sm



Alert Radius

Alert Radius allows you to set the zone to receive weather alerts. If you set a large radius, you will receive more weather alerts than if you were to set a small alert radius.

To set the Alert Radius:

1. Highlight Alert Radius on the XM Weather submenu.
2. Press the RIGHT or LEFT Cursor key to set the alert radius zone. (60sm - 180 sm, Default = 60sm)

XM Info**XM Info**

XM Info displays an information box with the XM Radio ID and subscription activation status.

To view XM Info:

1. Highlight XM Info on the XM Weather submenu.
2. Press the RIGHT Cursor key to view the Radio ID and activation status.
 - The **Radio ID** is the set of uppercase, alphanumeric characters shown under XM Info.
 - **Activation Status:** If your subscription has been activated, "NavWeather Authorized" displays in the information box. If it is not activated, the information box displays "Authorization Required" or "Activation Required." See *How to Subscribe and Activate XM WX* for details.

XM Diagnostic**XM Diagnostic**

(Advanced)

When **XM Diagnostic** is selected, an information box will display on the screen with important information about your AS WX 1 Satellite Weather Receiver. You may need this information if you contact customer service. The XM Diagnostic menu option is available when the User Mode is set to Advanced in the Setup main menu.

WARNING! Do not change the settings in the XM Diagnostic information box.

To view the XM Diagnostic information box:

1. Make sure the User Mode is set to Advanced, and highlight XM Diagnostic on the XM Weather submenu.
2. Press the RIGHT Cursor key to view the XM Diagnostic information box. Press the DOWN or UP Cursor key to scroll through the information.

Troubleshooting

Before contacting the Humminbird® Customer Resource Center, please read the following section. Taking the time to review these troubleshooting guidelines may allow you to solve a performance problem yourself, and therefore avoid sending your unit back for repair.

AS WX 1 Satellite Weather Receiver Alert Messages

The following alert banners will appear on your Fishing System.

- **Authorization Required or Activation Required:** The subscription for XM WX Satellite Weather® has not been activated. See *How to Subscribe and Activate XM WX* for details.
- **Check Antenna:** Confirm that the receiver is fully connected to the Fishing System. Also, consult the installation section of this manual to confirm correct installation of the receiver.
- **Ch Unauthorized:** The subscription for XM WX Satellite Weather® has not been activated. See *How to Subscribe and Activate XM WX* for details.
- **No Signal:** The signal quality is too low. The receiver reception might be blocked. The most effective reception is outdoors, facing south, without any obstructions (i.e. people, trees, structure). Also, confirm that the receiver is fully connected to the Fishing System.
- **Weather Data is More Than __ Minutes Old:** The weather data displayed on the Weather View is not current. Make sure the signal icon is displaying 4 bars. If reception is weak or has been blocked, make sure the receiver is clear of obstructions (i.e. people, trees, structure). The error message should disappear within 5 seconds, and the Weather View will refresh with the current data.

Fishing System Doesn't Power Up

If your Fishing System doesn't power up, use the installation guide that is included with your Fishing System to confirm specific details, making sure that:

- the power cable is properly connected to the Fishing System control head,
- the power cable is wired correctly, with red to positive battery terminal and black to negative terminal or ground,
- the fuse is operational, and
- the battery voltage of the power connector is at least 10 Volts.

Correct any known problems, including removing corrosion from the battery terminals or wiring, or actually replacing the battery if necessary.

Fishing System Defaults to Simulator with a Transducer Attached

A connected and functioning transducer will cause the newly-started Fishing System to go into Normal operating mode automatically. If, when you power up the Fishing System, it goes into Simulator mode automatically, even though a transducer is already connected, this means that the control head is not detecting the transducer. Perform the following troubleshooting tasks:

- Using the Installation Guide that also comes with your Fishing System, check to make sure that the transducer cable is securely connected to the Fishing System. Reconnect if necessary, and power up the Fishing System again to see if this fixes the problem.
- Replace the non-functioning transducer with a known good transducer if available and power up the control head again.
- Check the transducer cable. Replace the transducer if the cable is damaged or corroded.

Humminbird® Accessories

Accessories customize your Fishing System to your needs and enable you to stay on the edge of new technology. When an accessory is connected to the Fishing System, additional menus and readouts are added automatically to the Main Menu System. Accessories available today that are supported by your Fishing System include:

GPS Connection Cable: purchase the GPS Connection Cable in order to connect a handheld or other NMEA* GPS-compatible device that you may already own to your Fishing System.

**NMEA 0183 is a National Marine Electronics Association standard for data communication.*

PC Connect Cable: Purchase the PC Connect Cable to connect the Fishing System to a PC in order to upload product software updates and new features obtained from www.humminbird.com. This accessory requires the MSWindows-compatible HumminbirdPC™ software downloaded from our web site to your PC in order to communicate with the Fishing System.

WeatherSense® Fishing Condition Monitor: purchase and plug in the WeatherSense® accessory to your Fishing System to obtain barometric pressure readouts and trend data in real time.

Wireless Sonar Link (WSL): purchase the Wireless Sonar Link (WSL) accessory to receive remote sonar signals from a SmartCast® Remote Sonar Sensor (RSS). Radio signals from the RSS are received by the WSL and are transmitted over the Accessory Bus to the Fishing System.

Universal Sonar 2: Your Fishing System supports Universal Sonar 2, a state-of-the-art, integrated and protected transducer that is built into the lower unit of Minnkota trolling motors. With Universal Sonar 2, all wiring is concealed inside the indestructible composite shaft—out of sight and out of harm's way, with no clamps, ties, or exposed wires. Universal Sonar 2 features new temperature sensing and the performance of DualBeam PLUS™ technology (available with all Humminbird® DualBeam PLUS™ models). An expanded view and greater bottom detail gives you a totally new perspective of the water below, along with optimal sonar performance to help you find fish.

Downriggers are the key to catching fish you otherwise couldn't even touch. And now Humminbird's **CannonLink™** Downrigger Controller makes operation of up to six Cannon® Mag 20 DT or Mag 20 DT/HS downriggers incredibly easy. Using the controls on your Fishing System, deploy or retrieve downriggers, hold a specific distance off the bottom, cycle downriggers between two depths, and adjust the Positive Ion Control. Even see temperature and water clarity at depth and speed at the ball right on-screen when using the Cannon® Speed-n-Temp. You'll never be shorthanded again, just make adjustments from the helm, while your mate rigs the lines and brings in the fish!

With the new **InterLink™** Network Connection, you can now share GPS position, waypoints, routes and your current track between two Humminbird® Fishing Systems in real time. Mark a waypoint at the console, and it's instantly available on the second unit. No matter where you're at on the boat, you'll have access to your critical fishing and navigation information. Plus, daisy chain **InterLink™** with other System Modules and you'll have a network that lets you share digital data around the boat. It's a simply, clearly, better networking solution!

Be sure to check out our web site at **www.humminbird.com** for additional new and exciting accessories to grow your Fishing System!

***NOTE:** Each accessory requires a separate purchase. You can visit our web site at **www.humminbird.com** or contact our Customer Resource Center at **1-800-633-1468** for additional details.*

Contact Humminbird®

Contact the Humminbird® Customer Resource Center
in any of the following ways:

By Telephone:

(Monday - Friday 8:00 a.m. to 4:30 p.m. Central Standard Time):

1-800-633-1468

By e-mail:

(typically we respond to your e-mail within three business days):

cservice@johnsonoutdoors.com

For direct shipping, our address is:

Humminbird

Service Department

678 Humminbird Lane

Eufaula, AL 36027 USA



HUMMINBIRD®