

# GPSMAP® 4000/5000/6000/7000 Series SiriusXM® Owner's Manual



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## Getting Started

### WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

## Registering Your Device

Help us better support you by completing our online registration today.

- Go to <http://my.garmin.com>.
- Keep the original sales receipt, or a photocopy, in a safe place.

## Contacting Garmin Product Support

- Go to [www.garmin.com/support](http://www.garmin.com/support) and click **Contact Support** for in-country support information.
- In the USA, call (913) 397.8200 or (800) 800.1020.
- In the UK, call 0808 2380000.
- In Europe, call +44 (0) 870.8501241.

## Activating a SiriusXM Subscription

SiriusXM offers several subscription options. Go to <http://www.siriusxm.com/sxmmarine> to determine which subscription package is best for your needs.

Before you can activate your SiriusXM subscription, you must have the radio ID of your antenna. The radio ID is available in the product box, and on the System Information page of a connected device. See the owner's manual provided with your device for more information.

- 1 Contact SiriusXM by phone at (866) 528-7474 or go to <http://care.siriusxm.com> to subscribe.
- 2 Provide the necessary information to the SiriusXM representative or on the web site to activate your antenna.
- 3 Verify the functionality of the activated services:
  - For SiriusXM weather, on a connected device, view the Weather Subscription option from the System Information page, and confirm that your subscribed services are listed.
  - For SiriusXM radio, on a connected device, go to the Media page and confirm that radio channels are available.
- 4 If the service is not activated within the hour, go to <http://care.siriusxm.com/refresh> or contact SiriusXM by phone at 1-855-MYREFRESH (697-3373).

**NOTE:** For the antenna to receive the SiriusXM signal, it must be powered on, facing skyward, and tuned to channel 1.

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## SiriusXM Weather

### WARNING

The weather information provided through this product is subject to service interruptions and may contain errors, inaccuracies, or outdated information, and consequently should not be relied upon exclusively. Always use common sense while navigating, and check alternate weather information sources prior to making safety-related decisions. You acknowledge and agree that you shall be solely responsible for use of the weather information and all decisions taken with respect to navigating in weather. Garmin will not be responsible for any consequences of using SiriusXM weather information.

**NOTE:** SiriusXM data is not available in all regions.

A Garmin SiriusXM satellite weather receiver and antenna receives satellite weather data and shows it on various Garmin devices, including the Navigation chart on a compatible chartplotter. The weather data for each feature comes from reputable weather data centers such as the National Weather Service and the Hydrometeorological Prediction Center. For more information, go to [www.siriusxm.com/sxmmarine](http://www.siriusxm.com/sxmmarine).

## SiriusXM Equipment and Subscription Requirements

To use satellite weather, you must have a compatible satellite weather receiver. To use SiriusXM satellite radio, you must have a compatible satellite radio receiver. Go to [www.garmin.com](http://www.garmin.com) for more information. You must also have a valid subscription to receive satellite weather and radio. For more information, refer to the instructions for your satellite weather and radio equipment.

## Weather Data Broadcasts

Weather data is broadcast at different intervals for each weather feature. For example, radar is broadcast at five-minute intervals. When the Garmin receiver is turned on, or when a different weather feature is selected, the receiver must receive new data before it can be shown. You might experience a delay before weather data or a different feature appears on the chart.

**NOTE:** Any weather feature can change in appearance if the source that provides the information changes.

## Viewing Precipitation Information

Precipitation ranging from very light rain and snow, up to strong thunderstorms, is indicated in varying shades and colors. Precipitation is shown either independently or with other weather information.

Select **Weather > Precipitation**.

The time stamp in the upper-left corner of the screen indicates the elapsed time since the weather data provider last updated the information.

## Precipitation Views

From the precipitation weather chart, select **Menu**.

**RADAR Loop:** Shows precipitation information as an image of the latest update or as an animated loop of the latest updates. The time stamp indicates the elapsed time since the service provider generated the weather radar frame currently displayed on the screen.

**Cloud Cover:** Shows cloud cover data.

**Waypoints:** Shows waypoints.

**Legend:** Shows the weather legend.

## Switching Weather Charts

You can change from one type of weather chart to a different chart.

- 1 From a weather chart, select **Menu > Change Weather**.
- 2 Select a different weather chart.

## Storm Cell and Lightning Information

Storm cells are represented by  on the weather precipitation chart. They indicate both the present position of a storm and the projected path of that storm in the immediate future.

Red cones appear with a storm cell icon, and the widest part of each cone points in the direction of the projected path of the storm cell. The red lines in each cone indicate where the storm will most likely be in the near future. Each line represents 15 minutes.

Lightning strikes are represented by . Lightning appears on the weather precipitation chart if strikes were detected within the last seven minutes. The ground-based lightning detection network detects cloud-to-ground lightning only.

**NOTE:** This feature is not available on all devices and in all subscriptions.

## Hurricane Information

The weather Precipitation chart can show the present position of a hurricane , a tropical storm, or a tropical depression. A red line stemming from a hurricane icon indicates the projected path of the hurricane. Darkened dots on the red line indicate the projected locations through which the hurricane will pass, as received from the weather data provider.

## Weather Warnings and Weather Bulletins

When a marine weather warning, weather watch, weather advisory, weather bulletin, or other weather statement is issued, shading indicates the area to which the information applies. The aqua lines on the chart indicate the boundaries of marine forecasts, coastal forecasts, and offshore forecasts. Weather bulletins may consist of either weather watches or weather advisories.

To view information about the warning or bulletin, select the shaded area.

Color	Marine Weather Group
Cyan	Flash Flood
Blue	Flood
Red	Marine
Yellow	Severe Storm
Red	Tornado

## Forecast Information

The Forecast chart shows city forecasts, marine forecasts, warnings, hurricane warnings, METARS, county warnings, weather fronts and pressure centers, surface pressure, and weather buoys.

### Viewing Forecast Information for Another Time Period

- 1 Select **Weather > Forecast**.
- 2 Select an option:
  - To view the weather forecast for the next 12 hours, select **Next Forecast** or , and to view forecasts up to 48 hours, in 12-hour increments, select **Next Forecast** or  again.
  - To view the weather forecast for the previous 12 hours, select **Previous Forecast** or , and to view previous

forecasts, up to 48 hours ago, in 12-hour increments, select **Previous Forecast** or  again.

### Viewing a Marine Forecast or an Offshore Forecast

- 1 Select **Weather > Forecast**.
- 2 Pan the chart to an offshore location.

The Marine Forecast or Offshore Forecast options appear when forecast information is available.
- 3 Select **Marine Forecast** or **Offshore Forecast**.

### Weather Fronts and Pressure Centers

Weather fronts appear as lines that indicate the leading edge of an air mass.

Front Symbol	Description
	Cold front
	Warm front
	Stationary front
	Occluded front
	Trough

Pressure-center symbols often appear near weather fronts.

Pressure-Center Symbol	Description
<b>L</b>	Indicates a low-pressure center, which is a region of relatively lower pressure. Moving away from a low-pressure center results in increased pressure. Winds flow counterclockwise around low-pressure centers in the northern hemisphere.
<b>H</b>	Indicates a high-pressure center, which is a region of relatively higher pressure. Moving away from a high-pressure center results in decreased pressure. Winds flow clockwise around high-pressure centers in the northern hemisphere.

### City Forecasts

City forecasts appear as weather symbols. The forecast is viewed in 12-hour increments.

Symbol	Weather	Symbol	Weather
	Partly cloudy		Fair (sunny, hot, clear)
	Cloudy		Rain (drizzle, sleet, showers)
	Windy		Foggy
	Thunderstorms		Snow (snow showers, flurries, blizzard, blowing snow, sleet, freezing rain, freezing drizzle)
	Smoke (dusty, hazy)		

### Viewing Sea Conditions

The Sea Conditions chart shows information about surface conditions, including winds, wave height, wave period, and wave direction.

Select **Weather > Sea Conditions**.

### Surface Winds

Surface wind vectors appear on the Sea Conditions chart using wind barbs that indicate the direction from which the wind is blowing. A wind barb is a circle with a tail. The line or flag attached to the tail of the wind barb indicates the wind speed. A short line represents 5 knots, a long line represents 10 knots, and triangle represents 50 knots.

Wind Barb	Wind Speed	Wind Barb	Wind Speed
	Calm		20 knots
	5 knots		50 knots
	10 knots		65 knots
	15 knots		

### Wave Height, Wave Period, and Wave Direction

Wave heights for an area appear as variations in color. Different colors indicate different wave heights, as shown in the legend.

The wave period indicates the time (in seconds) between successive waves. Wave period lines indicate areas that have the same wave period.

Wave directions appear on the chart using red arrows. The direction of each arrow pointer indicates the direction in which a wave is moving.

### Viewing Forecast Sea Conditions Information for Another Time Period

- 1 Select **Weather > Sea Conditions**.
- 2 Select an option:
  - To view forecasted sea conditions for the next 12 hours, select **Next Forecast** or **▶**, and to view forecasts up to 48 hours, in 12-hour increments, select **Next Forecast** or **▶** again.
  - To view the forecasted sea conditions for the previous 12 hours, select **Previous Forecast** or **◀**, and to view previous forecasts, up to 48 hours ago, in 12-hour increments, select **Previous Forecast** or **◀** again.

### Viewing Fishing Information

The weather Fishing chart shows present water temperature, present surface pressure conditions, and fishing forecasts.

Select **Weather > Fishing**.

### Surface Pressure and Water Temperature Data

Surface-pressure information appears as pressure isobars and pressure centers. Isobars connect points of equal pressure. Pressure readings can help to determine weather and wind conditions. High-pressure areas are generally associated with fair weather. Low-pressure areas are generally associated with clouds and the chance of precipitation. Isobars packed closely together show a strong pressure gradient. Strong pressure gradients are associated with areas of stronger winds.

Pressure units are shown in millibars (mb), inches of Mercury (inHg), or hectopascals (hPa).

Colored shading indicates the surface temperature of the water, as shown in the legend in the corner of the display.

### Forecasting Fish Locations

You can show areas that contain optimal weather conditions for specific species of fish.

**NOTE:** This feature is not available on all devices and in all subscriptions.

- 1 From the weather Fishing chart, select **Weather > Fishing > Menu > Fish Species**.
- 2 Select a species of fish.
- 3 Select **On**.
- 4 Repeat steps 2 and 3 to show areas with optimal weather conditions for additional species of fish.

Shaded areas indicate optimal fishing areas. If you have selected more than one species of fish, you can select a shaded area to view the fish species that are included in the shaded area.

### Visibility Information

Visibility is the forecast maximum horizontal distance that can be seen at the surface, as shown in the legend on the left of the screen. Variations in the visibility shading show the forecast change in surface visibility.

**NOTE:** This feature is not available on all devices and in all subscriptions.

Select **Weather > Visibility**.

### Viewing Forecast Visibility Information for Another Time Period

- 1 Select **Weather > Visibility**.
- 2 Select an option:
  - To view the visibility forecast for the next 12 hours, select **Next Forecast** or **▶**, and to view forecasts up to 48 hours, in 12-hour increments, select **Next Forecast** or **▶** again.
  - To view the visibility forecast for the previous 12 hours, select **Previous Forecast** or **◀**, and to view previous forecasts, up to 48 hours ago, in 12-hour increments, select **Previous Forecast** or **◀** again.

### Viewing Buoy Reports

Report readings are taken from buoys and coastal observation stations. These readings are used to determine air temperature, dew point, water temperature, tide, wave height and period, wind direction and speed, visibility, and barometric pressure.

- 1 From a weather chart, select **📍**.
- 2 Select **Review > Buoy**.

**Review** does not appear if the cursor is not near an object. If the cursor is near only one object, the name of the buoy appears.

### Viewing Local Weather Information near a Buoy

You can select an area near a buoy to view forecast information.

- 1 From a weather chart, select a location on the chart.
- 2 Select **Local Weather**.
- 3 Select an option:
  - To view present weather conditions from a local weather service, select **Current Conditions**.
  - To view a local weather forecast, select **Forecast**.
  - To view surface wind and barometric pressure information, select **Sea Surface**.
  - To view wind and wave information, select **Marine Bulletin**.

### Creating a Waypoint on a Weather Chart

- 1 From a weather chart, select a location.
- 2 Select **New Waypoint**.

### Weather Overlay

The weather overlay superimposes weather and weather-related information on the Navigation chart, the Fishing chart, and the Perspective 3D chart view. The Navigation chart and the Fishing chart can show weather radar, height of cloud tops, lightning, weather buoys, county warnings, and hurricane warnings. The Perspective 3D chart view can show weather radar.

Weather overlay settings configured for use on one chart are not applied to another chart. The weather overlay settings for each chart must be configured separately.

**NOTE:** The offshore Fishing chart is available with premium charts, in some areas.

## Turning On the Weather Overlay on a Chart

From the Navigation chart or Fishing chart, select **Menu > Chart Setup > Weather > Weather > On**.

## Weather Overlay Settings on the Navigation Chart

**NOTE:** Available settings depend on the receiver connected to your device.

From the Navigation chart, select **Menu > Chart Setup > Weather**.

**Weather:** Turns on and off the weather overlay.

**WX RADAR:** Shows precipitation data.

**Cloud Cover:** Shows cloud cover data.

**Visibility:** Shows visibility data.

**WX Buoys:** Shows weather buoys.

**Legend:** Shows the weather legend.

## Weather Overlay Settings on the Fishing Chart

**NOTE:** Available settings depend on the receiver connected to your device.

From the Fishing chart, select **Menu > Chart Setup > Weather**.

**WX RADAR:** Shows precipitation radar.

**Fish Species:** Shows locations of a specific species of fish.

**Sea Temp:** Shows sea temperature data.

**WX Buoys:** Shows weather buoys.

**Legend:** Shows the weather legend.

## Setting Weather Alarms

Before you can set weather alarms, you must have a compatible chartplotter connected to a weather device, such as a GXM device, and have a valid weather subscription.

- 1 Select **Configure > Alarms > Weather**.
- 2 Turn on alarms for specific weather events.

## Viewing Weather Subscription Information

You can view information about the weather services you have subscribed to and how many minutes have passed since the data for each service was updated.

Select **Weather > Weather Subscription**.

## SiriusXM Radio

When you have a Garmin SiriusXM receiver connected to the chartplotter, you may have access to SiriusXM satellite radio, depending on your subscription.

## Selecting a SiriusXM Radio Channel

- 1 Select **☰ > SiriusXM Audio**.
- 2 Select an option:
  - To select a specific channel, select a SiriusXM channel, and select **Back**.
  - To enter an channel manually, select **Channel Entry**, enter a channel number, and select **Select**.

## Customizing the Channel Guide

SiriusXM radio channels are grouped in categories. You can select the category of channels that appear in the channel guide.

- 1 Select **☰ > SiriusXM Audio > Category**.
- 2 Select a category.

## Saving a SiriusXM Channel to the Presets List

You can save your favorite channels to the presets list.

- 1 Select **☰ > SiriusXM Audio**.
- 2 Select a channel.
- 3 Select **Save Preset**.

## Adjusting SiriusXM Satellite Radio Volume

- 1 Select **☰ > SiriusXM Audio > Volume**.
- 2 Hold **Up** or **Down** to adjust the volume level.
- 3 Select **Done**.

**TIP:** You can select **Mute** from the SiriusXM Audio screen to turn the volume off or on.

## Showing the SiriusXM Radio Data Bar on a Chart

The SiriusXM radio data bar is available on all charts. On a chartplotter, a data bar configured to appear on one chart may not appear on another chart. The data bar for each chart must be configured separately.

- 1 Select **Charts**.
- 2 Select a chart.
- 3 Select **Menu > Data Bars > SiriusXM Audio > On**.

## Showing the SiriusXM Radio Data Bar on a Combination Screen

You can display the SiriusXM radio data bar at the bottom of the combination screen on a chartplotter.

- 1 Select **Combinations**.
- 2 Select a combination.
- 3 Select **Menu > Change Combination > SiriusXM Bar > On > Done**.

## Appendix

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