8.4 Tides mode

In Tides mode the Tides animation control is displayed onscreen and the Tide station and Current station symbols in the Chart app are replaced with dynamic graphics which identify Tide and Current conditions. You can use the animation controls to play Tide and Current predictions for a 24 hour period. The own vessel Tide vector is also enabled in Tides mode.

> **Note:**
> - The Tides mode is only available if you have cartography that provides the Tides and Current data. Refer to your cartography provider for more information.
> - The Tides mode requires accurate date information, usually taken from the GNSS (GPS) position data available to your MFD. Alternatively, you can input a specific date manually.

1. Animation progress bar — The progress bar is Blue for the current 24 hour period, or Green when playing animations from a different day.
2. Skip forwards — Skips forwards in user defined intervals, when the end of the progress bar is reached skipping forward will progress to the next day.
3. Skip backwards — Skips backwards in user defined intervals. When the beginning of the progress bar is reached, skipping backward will regress to the previous day.
4. Skip to the actual date / time — Position data is required from your GNSS (GPS) receiver to obtain current date and time.
5. Play / Pause animation — When the animation is playing it will cycle through the current 24 hour period continuously.
6. Own vessel tide (Set and Drift) vector.
7. Dynamic tide height graphic.
8. Dynamic current graphic.

> **Important:**
> The data provided in the Tide and Current graphs and graphics is for information purposes only and must NOT be relied upon as a substitute for prudent navigation. Only official government charts and notices to mariners contain all the information needed for safe navigation.

Using animation controls

The animation controls can be selected using the Touchscreen, alternatively you can use the MFD's physical buttons or a RMK controller to control animations as described below:

With the Chart app set to **Tides mode**.

1. Select **Animate tides** from the menu.
2. Use the **Left** button on the Uni-controller to skip forwards in user defined intervals.
3. Use the **Right** button on the Uni-controller to skip backwards in user defined intervals.

4. Use the Uni-controller's **OK** button to Play or Pause the animation.

You can define the User skip time interval form the Advanced menu: **Menu > Settings > Advanced > Tide animation interval**.

Setting a specific date for animations

You can select a specific date for the Tide and Current animation predictions.

1. Select **Select date** from the main menu.
2. Use the **Up** and **Down** arrows to change the date to the required day.
3. Select **Save**.

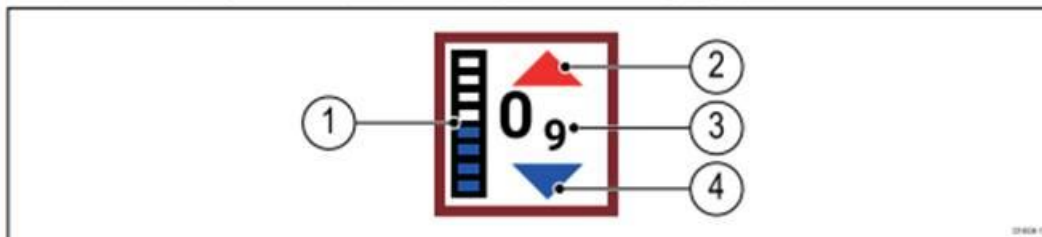The animation will be set for the specified date.

Tide station information

Depending on your cartography, Tide station information may be available at the location of Tide stations.

Tide station symbol

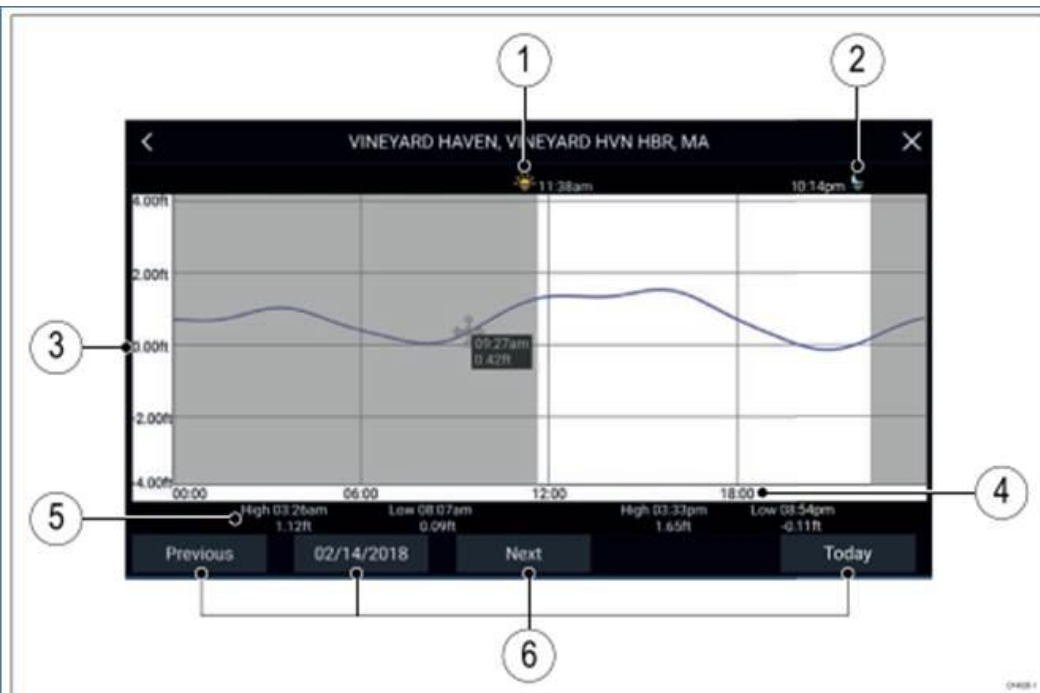|	
	The location of Tide stations is marked on the Chart using a diamond-shaped symbol with a 'T' in the middle. • The symbol is colored Red when using Navionics cartography. • The symbol is colored Black when using C-Map cartography.

Dynamic tide graphic

Using Navionics cartography, when the Tides layer is enabled or when the Chart app is in **Tides mode**, the standard symbol is replaced with a dynamic Tide height graphic:

1. Tide bar — The tide bar plots the current tide height against the maximum predicted tide height for that day.
2. Red arrow indicates tide height is increasing.
3. Tide height — Tide height is displayed in user-selected depth units, with decimals displayed in subscript. Decimals are not shown for values of 10 or greater.
4. Blue arrow indicates tide height is decreasing.

Tide graph

Tide graphs are available with applicable Navionics and C-Map cartography by selecting **more options** and then **Tide station** from the Tide station's context menu.

1. **Sunrise** — Indicates time of sunrise.
2. **Sunset** — Indicates time of sunset.
3. **Height** — Provides tide height in selected units.
4. **Time** — Indicates time of day.
5. **Low / High tide** — Indicates the time of low and high tides.
6. **Time and date options** — Use the buttons to view previous, next or today's tide predictions, or enter a date by selecting the date field.

Current station information

Depending on your cartography, Current station information may be available at the location of Current stations.

Current station symbol

The location of Current stations is marked on the Chart using a diamond-shaped symbol with a 'C' in the middle.

- The symbol is colored **Blue** when using applicable Navionics cartography.
- The symbol is colored **Black** when using applicable C-Map cartography.

Dynamic current graphic

When the Tides layer is enabled or when the Chart app is in **Tides mode**, the standard symbol is replaced with a dynamic Current graphic.
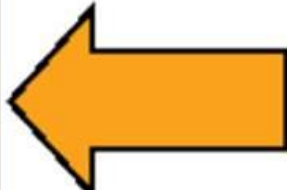
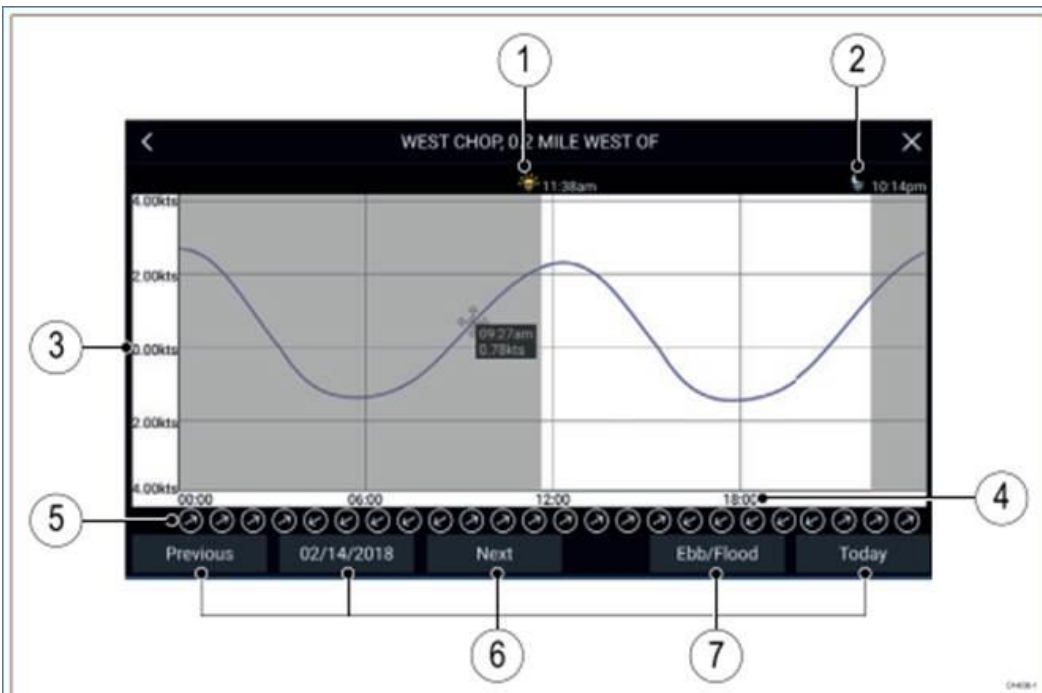|		
	When using Navionics cartography the dynamic Current graphic is an arrow pointing in the direction of the current flow. Arrow length indicates the speed of the current; the longer the arrow, the faster the speed. The arrow's border indicates current status: • **Red** = increasing current speed. • **Blue** = decreasing current speed. Current speed is shown inside the arrow. Current speed is displayed in user-selected speed units, with decimals displayed in subscript. Decimals are not shown for values of 10 or greater. If tidal conditions are "slack", the word "SLACK" appears in a box with a Blue border.	

When using C-Map cartography, arrows are used to indicate the direction of current flow. The size and color of the arrow indicates the strength of the current:

	Yellow	0 to 0.1 Knots
	Yellow	0.2 to 1.0 Knots
	Orange	1.1 to 2.0 Knots
	Orange	2.1 to 3.0 Knots
	Red	>3.0 Knots

Current graph

Current graphs are available by selecting **more options** and then **Current station** from the Current station's context menu.

1. **Sunrise** — Indicates time of sunrise.
2. **Sunset** — Indicates time of sunset.
3. **Speed** — Provides current speed in selected units.
4. **Time** — Indicates time of day.
5. **Direction** — Indicates the direction of the current (relative to North).
6. **Time and date options** — Use the buttons to view previous, next or today's tide predictions, or enter a date by selecting the date field.
7. **Ebb / Flood** — Displays a list showing ebb, slack and flood tides.

Displaying Tide or Current graphs

1. Select the relevant Tide or Current station symbol or dynamic graphic.
2. Select **more options** from the context menu.
3. Select **Tide station** or **Current station**