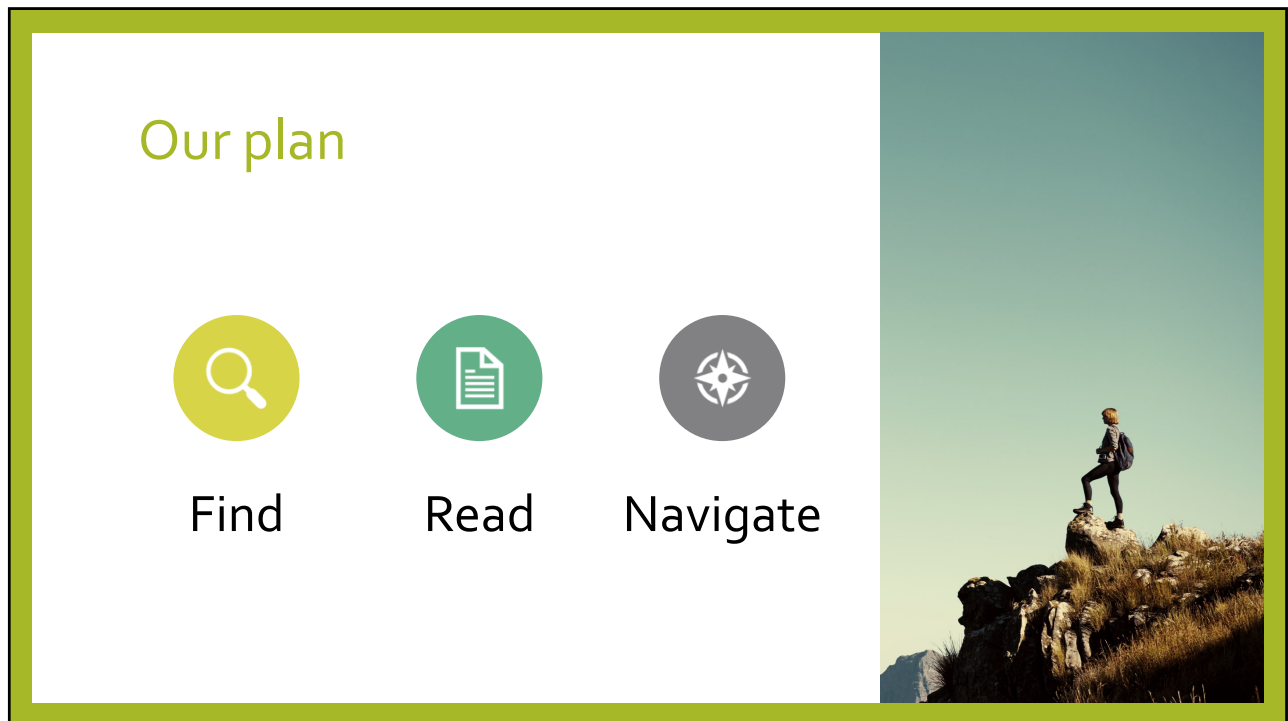



1



2

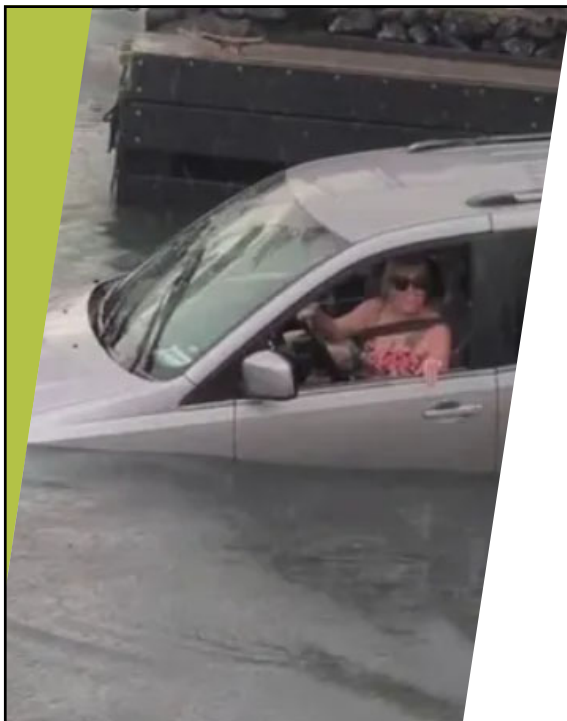


The NOAA logo is circular, featuring a blue and white stylized wave design. The text "NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION" is written around the top inner edge, "NOAA" is in the center, and "U.S. DEPARTMENT OF COMMERCE" is written around the bottom inner edge. The logo is overlaid on a satellite image of the ocean.

Definitions

- ▶ NOAA
- ▶ Chart vs. map
- ▶ Nautical mile
- ▶ Knot

3



A photograph showing a silver car partially submerged in floodwaters. A person is visible in the driver's seat, looking out the window. The car is surrounded by water, and a dark structure is visible in the background.

But I already have a GPS

4

FINDING CHARTS

5

The screenshot displays the NOAA Custom Chart web application. The browser address bar shows the URL `devgis.charttools.noaa.gov/pod/`. The page header includes the NOAA logo and the text "Office of Coast Survey National Oceanic and Atmospheric Administration U.S. Department of Commerce". On the right, it says "NOAA Custom Chart Version 2.0 Choose your own chart scale and location Save charts to a personal chart catalog".

The main interface features a search bar with the placeholder "Find address or place" and a search icon. Below the search bar is a "Help Documentation" section with the following links:

- Quick Start Guide
- User Guide
- Creating a Custom Chart and a Personal Chart Catalog (12.23)
- Legend (U.S. Chart No. 1)
- NOAA Custom Chart PDF Printing

Below the links is a section titled "New in NOAA Custom Chart Version 2.0 Enhancements". The central part of the page is a map showing the North Pacific and Atlantic Oceans. The map is overlaid with a grid of red rectangular boxes representing chart boundaries. The map includes labels for "NORTH PACIFIC OCEAN", "Gulf of Alaska", "Gulf of Mexico", "Caribbean Sea", "Sargasso Sea", "North American Basin", "Labrador Basin", "Labrador Sea", "Hudson Bay", and "Mid-Atlantic Ridge". The map also shows depth contours and a scale bar for 1000 miles. The bottom of the page contains a footer with navigation links: "Home | Legend | Contact Us | Privacy Policy | Disclaimer | Information Quality | Freedom of Information Act | USA.gov | Ready.gov | EEO | Take our Survey" and the text "Website owned by: Office of Coast Survey".

6

The screenshot shows the NOAA Custom Chart Version 2.0 web application. The browser address bar displays `devgis.charttools.noaa.gov/pod/`. The page header includes the NOAA logo and the text "Office of Coast Survey National Oceanic and Atmospheric Administration U.S. Department of Commerce". On the right, it says "NOAA Custom Chart Version 2.0 Choose your own chart scale and location Save charts to a personal chart catalog".

The main content area features a map of Lake Michigan with a red bounding box and a search bar at the top. The left sidebar is titled "Help Documentation" and contains the following links:

- Quick Start Guide
- User Guide
- Creating a Custom Chart and a Personal Chart Catalog (12.23)
- Legend (U.S. Chart No. 1)
- NOAA Custom Chart PDF Printing

Below the links, there is a section for "New in NOAA Custom Chart Version 2.0 Enhancements". The bottom of the page contains a footer with various links: Home, Legend, Contact Us, Privacy Policy, Disclaimer, Information Quality, Freedom of Information Act, USA.gov, Ready.gov, EEO, and Take our Survey. The website is owned by the Office of Coast Survey.

7

This screenshot shows the same NOAA Custom Chart Version 2.0 interface, but with the "Layer Settings" sidebar open. The sidebar contains instructions: "Use these checkboxes to restrict the chart data used for your chart to specific intended use categories. Check 'All Datasets' to allow the application to choose the best available data for your chart. For a detailed description of data extents and intended uses, please refer to the User Guide."

The "Layer Settings" section includes:

- Data extents: On
- Data extent text: Scale
- Intended uses:
 - All Datasets
 - Overview
 - General
 - Coastal
 - Approach
 - Harbour

The map in the background shows a different bounding box and coordinates: `44° 56' 22" N 87° 23' 57" W`. The footer and navigation elements are identical to the previous screenshot.

8

The screenshot shows the NOAA Custom Chart tool interface. On the left, the 'Chart Settings' panel is visible with the following fields: Name: 'Sleeping Bear Dunes and Manitou Islands', Scale: '80000', Page size: 'ANSI D (22in x 34in)', Orientation: 'Portrait', Chart units: 'Feet', Depth zones: 'Four', and Depth zone shades: '5', '11', '17'. Below these settings is a descriptive paragraph and two buttons: 'Create New Chart' and 'Move Chart'. The main map area displays a bathymetric chart of Lake Michigan with depth contours and a red bounding box. The map includes a search bar at the top, a scale bar at the bottom, and a coordinate display showing 44° 32' 01" N 86° 01' 13" W. The NOAA logo and 'Office of Coast Survey' are at the top left, and 'NOAA Custom Chart Version' information is at the top right.

9

This screenshot is identical to the one above but includes two red annotations. A red circle highlights the 'Create New Chart' button in the 'Chart Settings' panel. Another red circle highlights a '30000' depth contour on the map, with a tooltip that says 'Click to add an extent'.

10

The screenshot shows the NOAA Custom Chart tool interface. The browser address bar displays `devgis.charttools.noaa.gov/pod/`. The page header includes the NOAA logo and the text "Office of Coast Survey National Oceanic and Atmospheric Administration U.S. Department of Commerce". On the right, it says "NOAA Custom Chart Version" and "Choose your own chart scale and location Save charts to a personal chart catalog".

The "Chart Settings" panel on the left contains the following fields:

- Name: Sleeping Bear Dunes and Manitou Islands
- Scale: 80000
- Page size: ANSI D (22in x 34in)
- Orientation: Portrait
- Chart units: Feet
- Depth zones: Four
- Depth zone shades: shallow: 5, safety: 11, Deep: 17

Below the settings, there is a text block: "Depth zones shallower than the entered values are tinted in the shade of blue shown. If no contour for the value exists in the ENC data, the next deeper contour is used. Depth zones deeper than the 'Deep' value are displayed as white." Below this text are two buttons: "Create New Chart" and "Move Chart".

The main map area shows a bathymetric chart of Lake Michigan with a grid. A search bar at the top left of the map contains "Find address or place". A scale indicator "Scale: 80000" is visible on the map. The map shows depth contours and labels like "Green Bay" and "134". A 10mi scale bar is at the bottom left of the map. The bottom of the page has a footer with links: Home | Legend | Contact Us | Privacy Policy | Disclaimer | Information Quality | Freedom of Information Act | USA.gov | Ready.gov | EEO | Take our Survey. Website owned by: Office of Coast Survey.

11

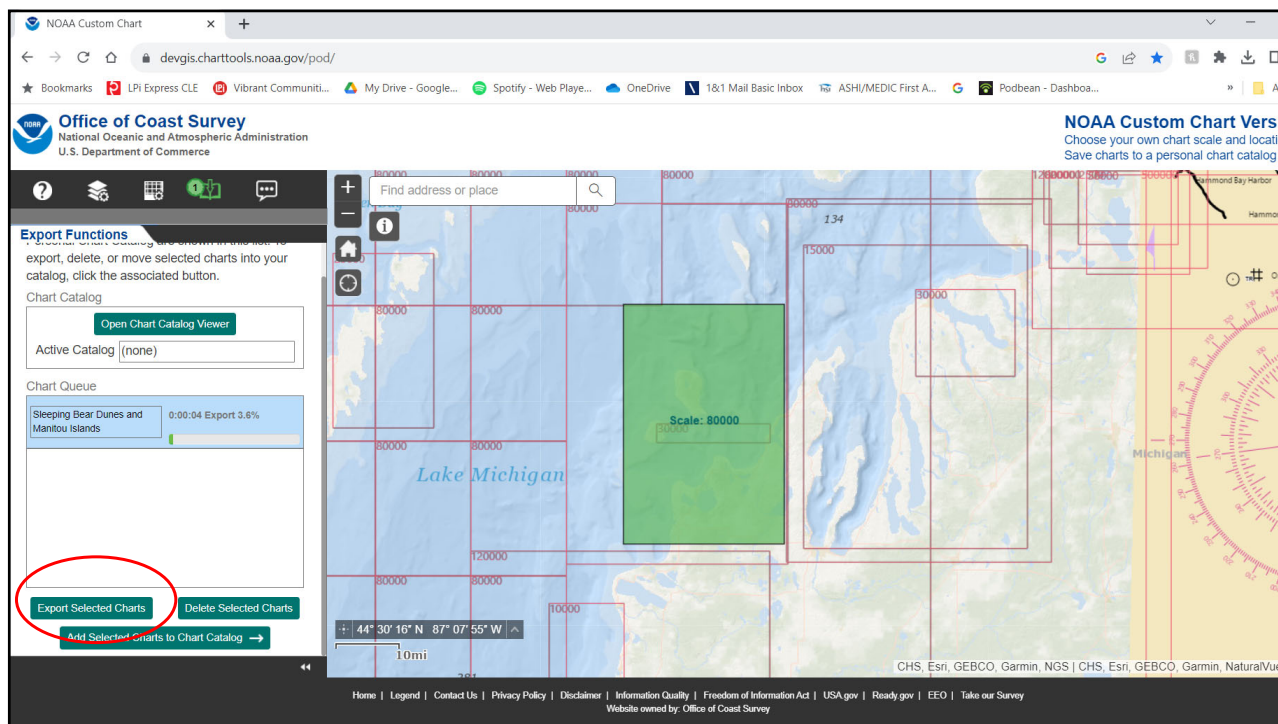
This screenshot shows the same NOAA Custom Chart tool interface, but with the "Export Functions" panel open on the left. The browser address bar and page header are identical to the previous screenshot.

The "Export Functions" panel includes:

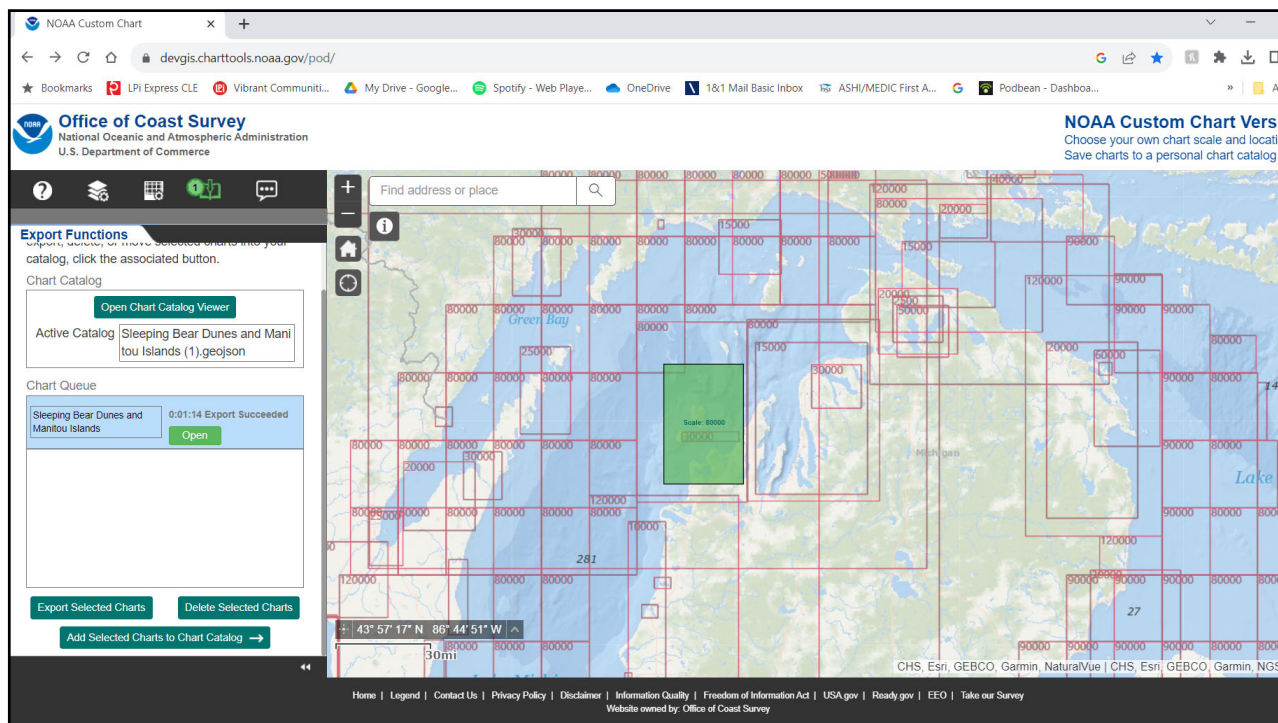
- A heading "Export Functions" with a sub-heading "Export, delete, or move selected charts into your catalog, click the associated button."
- A "Chart Catalog" section with an "Open Chart Catalog Viewer" button and an "Active Catalog (none)" dropdown.
- A "Chart Queue" section with a list containing "Sleeping Bear Dunes and Manitou Islands".
- Buttons for "Export Selected Charts", "Delete Selected Charts", and "Add Selected Charts to Chart Catalog".

The main map area is the same as in the previous screenshot, showing the bathymetric chart of Lake Michigan with the "Scale: 80000" indicator and "10mi" scale bar. The footer is also identical.

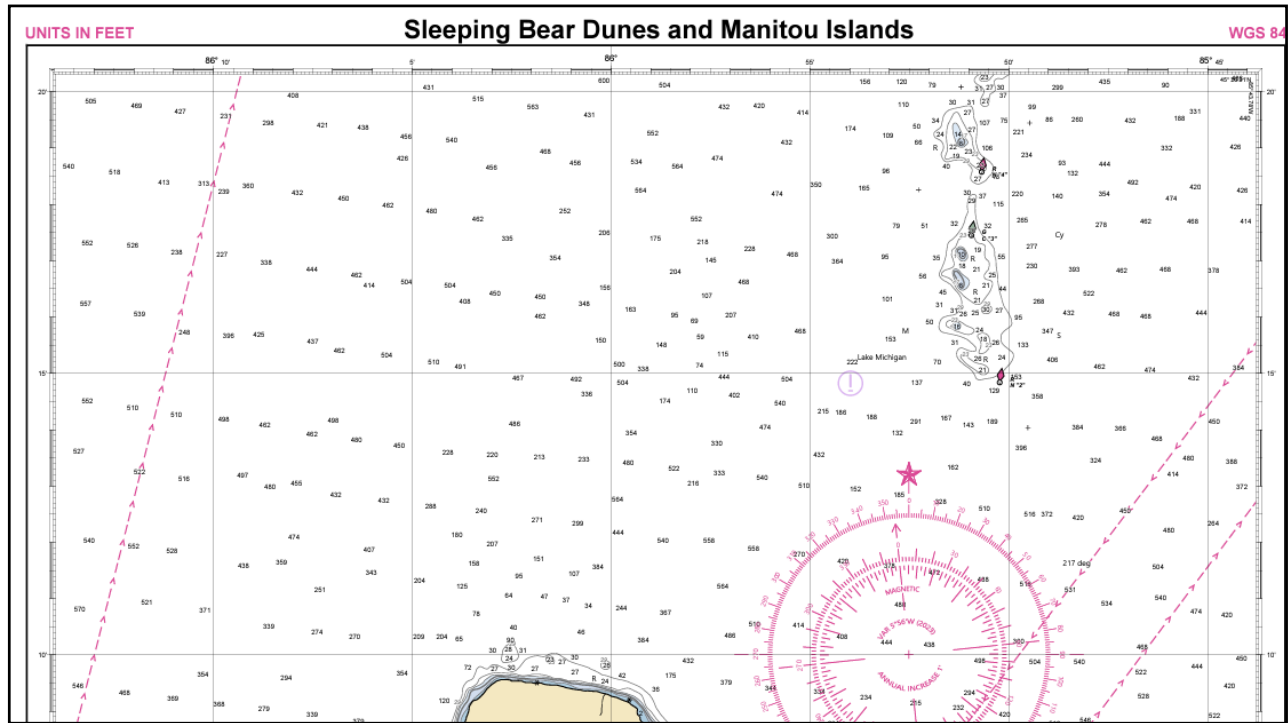
12



13



14



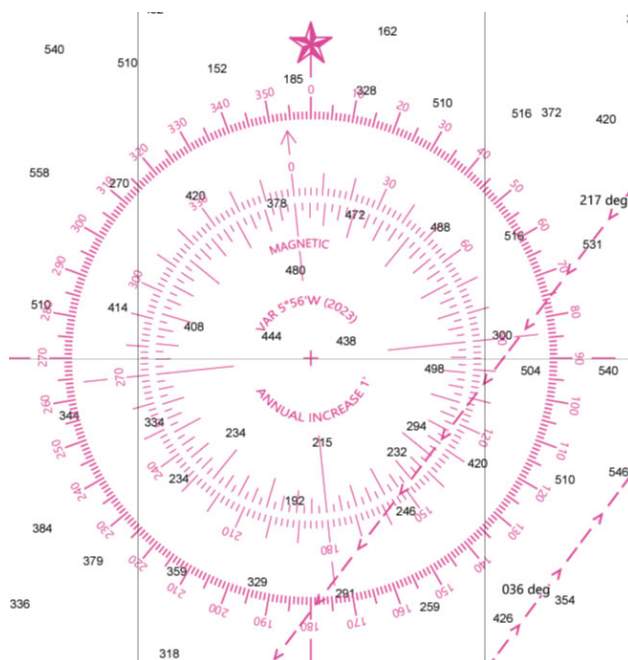
15



16

Charts and their parts

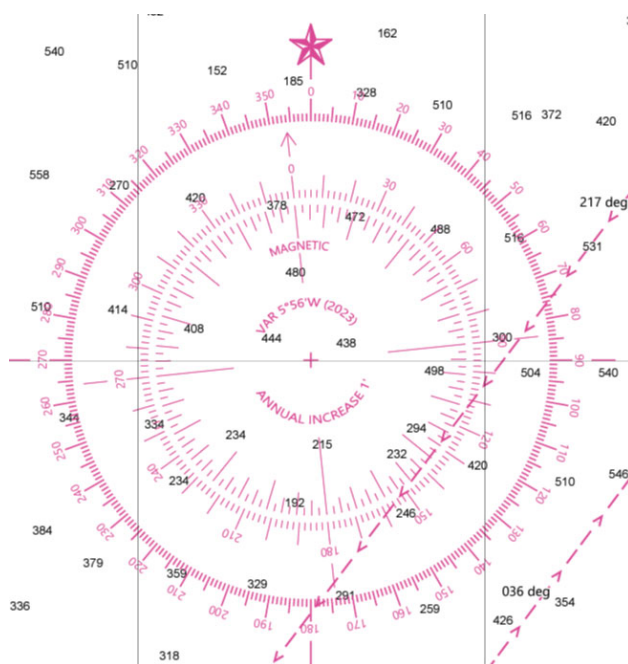
- ▶ Compass rose
- ▶ Legend
- ▶ Measurements
- ▶ Symbols



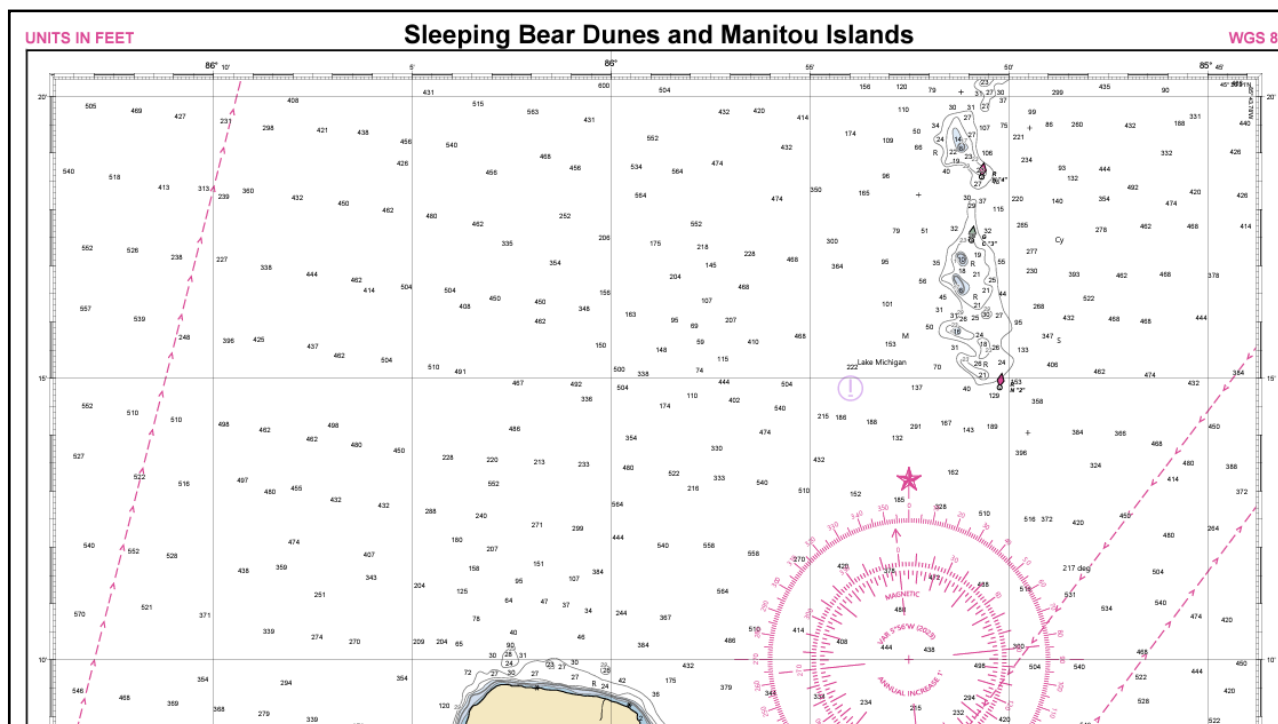
17

Magnetic Declination

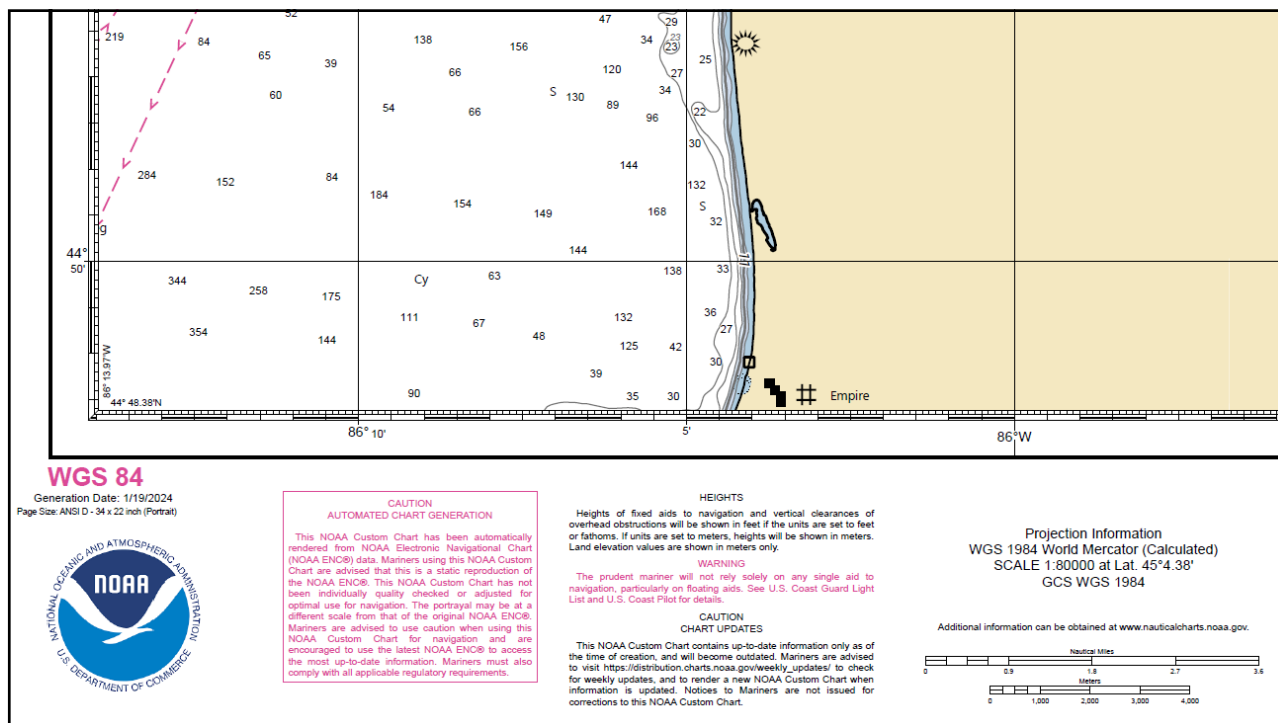
- ▶ True vs. Magnetic North
- ▶ Var $5^{\circ} 56'$ (2023)
- ▶ Annual increase $1'$
- ▶ East is least
- ▶ West is best



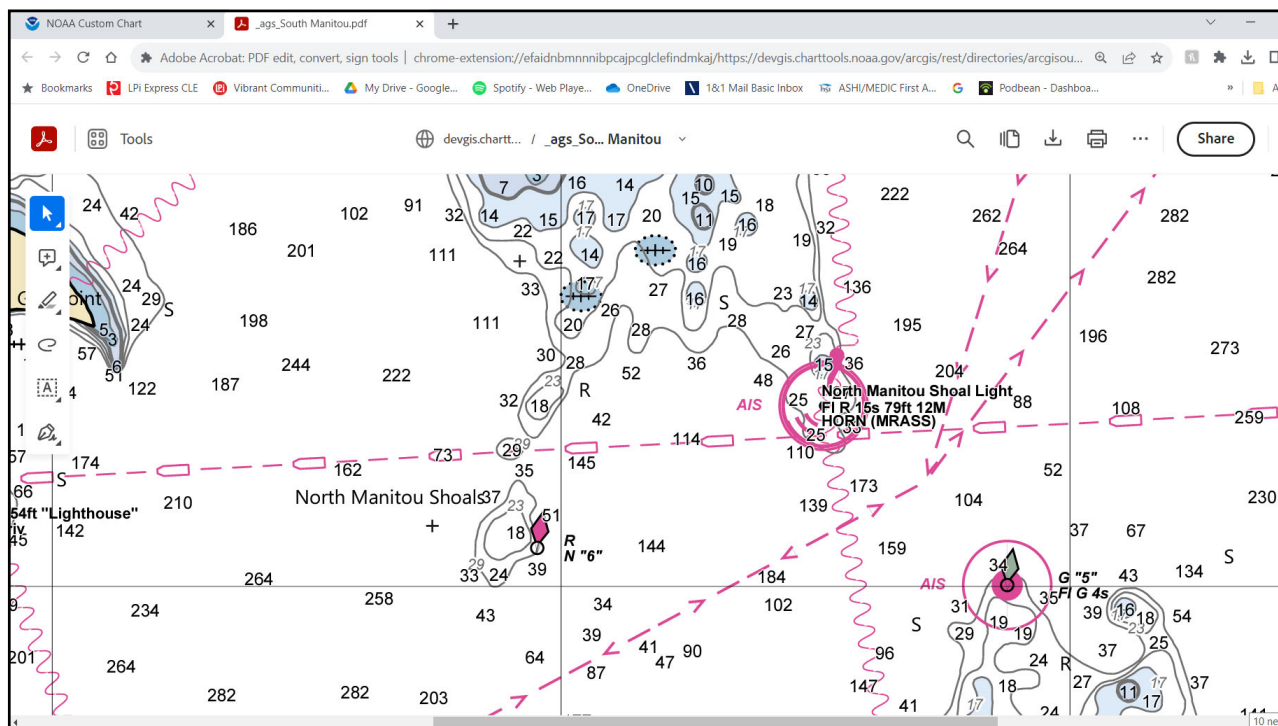
18



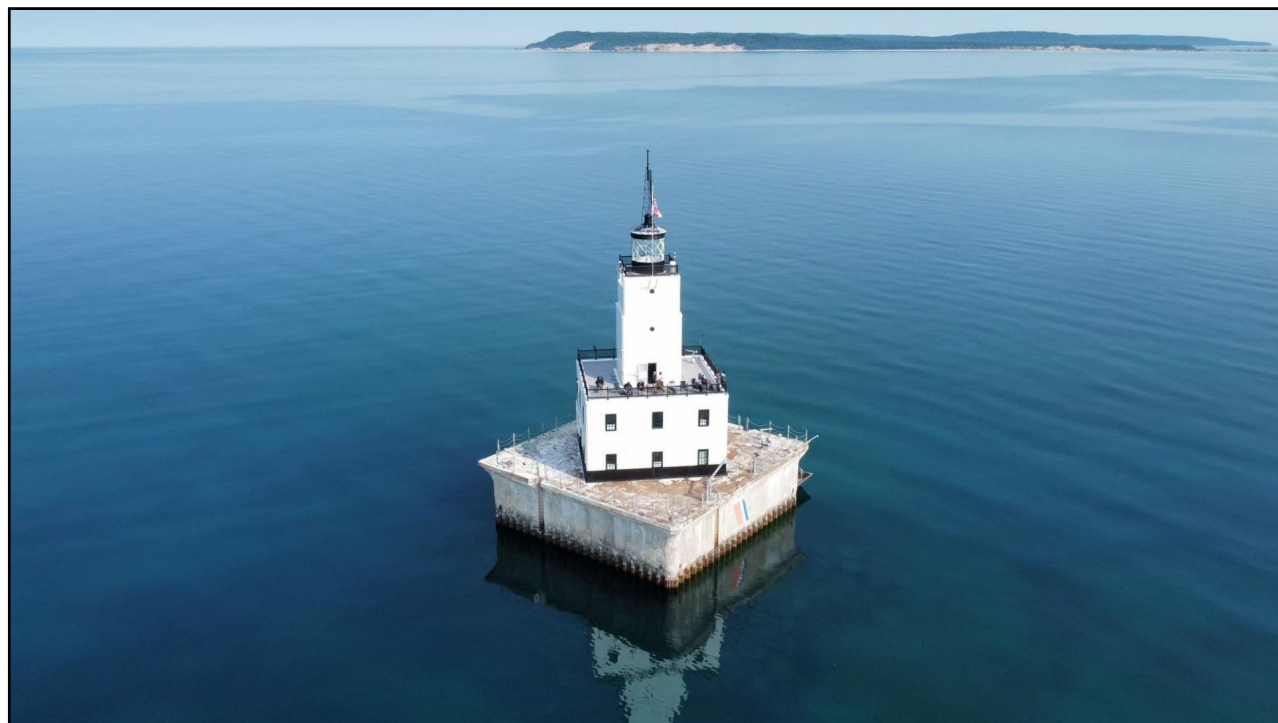
19



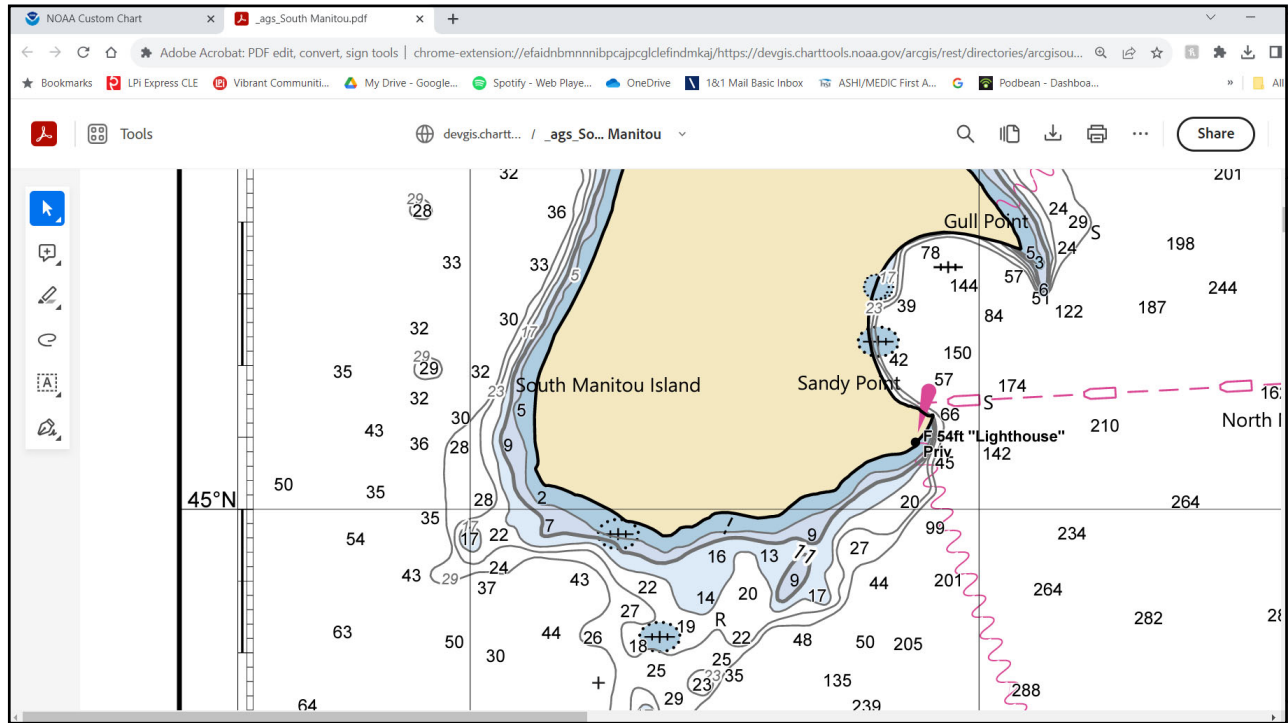
20



21



22

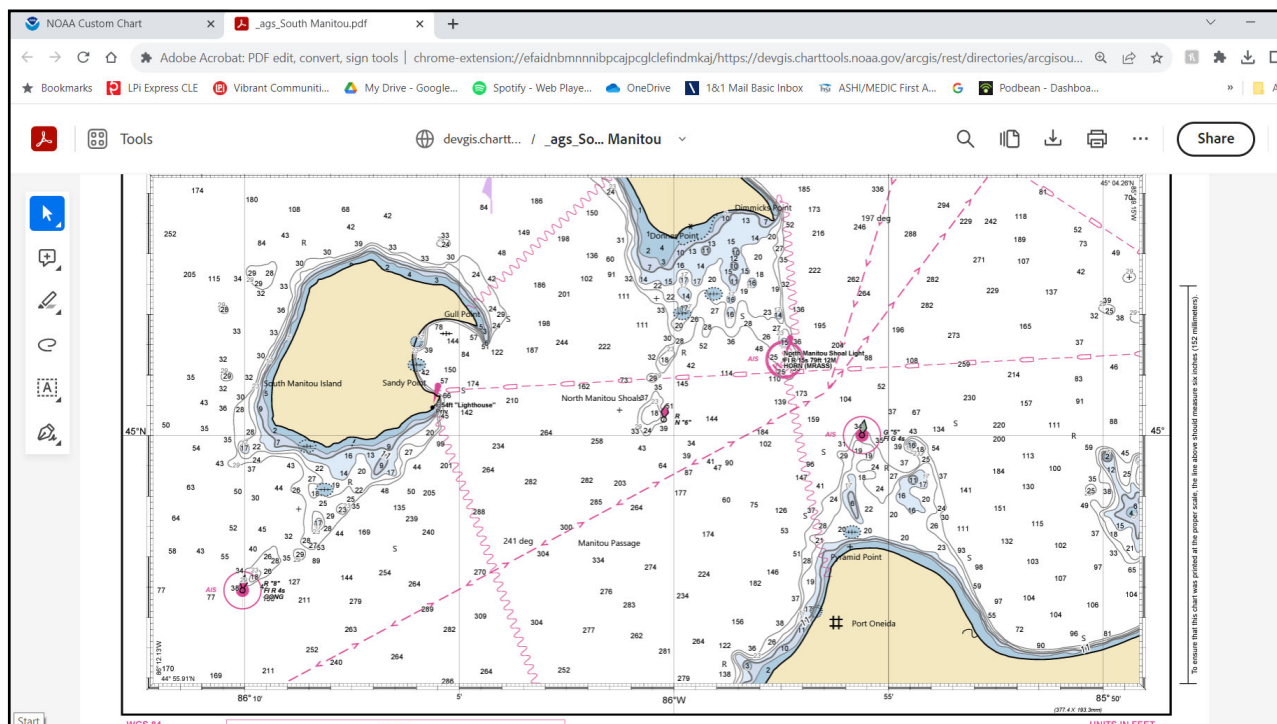


23



Source: Michigan Nut Photography

24



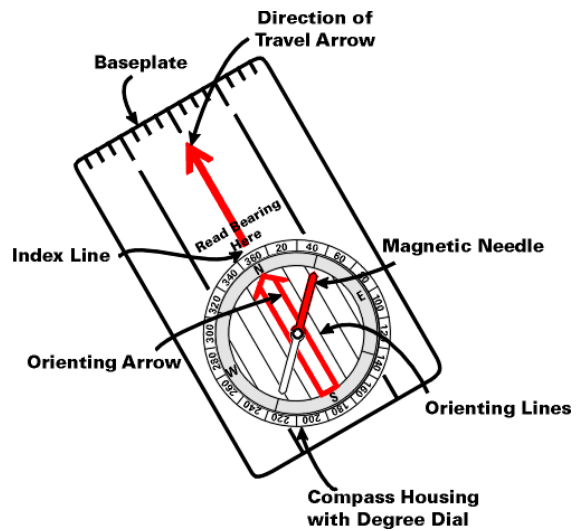
25



26

Your compass

- Align the edge with your line of travel
- Rotate the housing to align the Orienting Lines with Chart Grid Lines
- Lift your compass
- Read Bearing
- Adjust for magnetic declination
- Direction of Travel

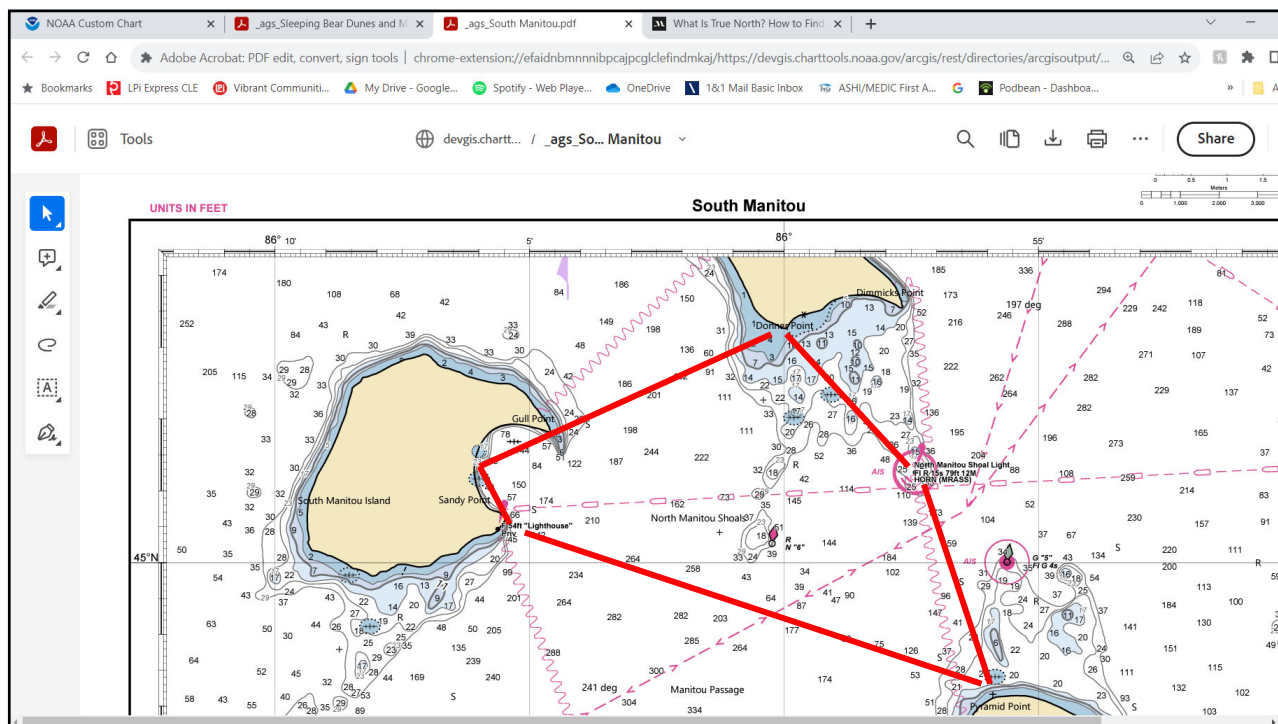


27



Measuring distance

28

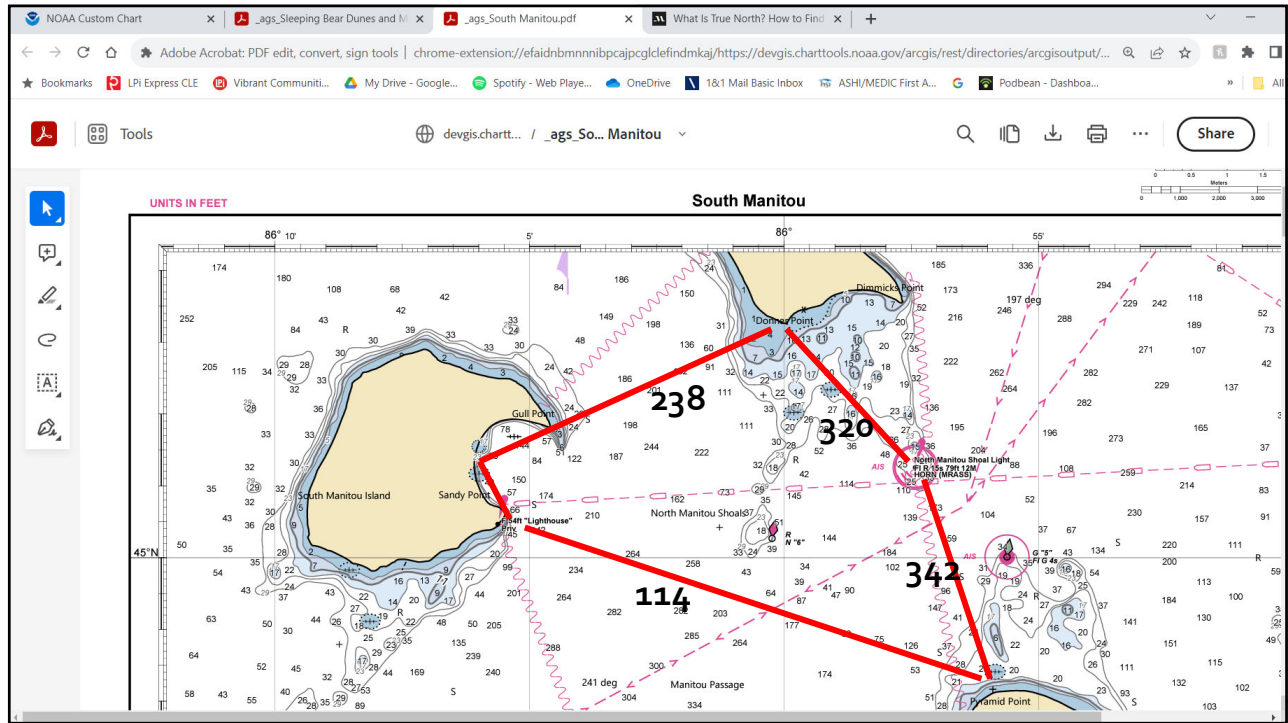


29

Techniques

- ▶ Aiming off
- ▶ Handrailing
- ▶ Backstop

30



31




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Thank You!

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