



## What is a NOAA RespondersChart?



The **NOAA RespondersChart™** is a tool for oil spill response, hurricane recovery, search and rescue, homeland security, and other incidents where the nautical chart is a natural tool for planning, coordinating, or sharing information. Responders can download these charts, digitally annotate them with incident-specific information, and then print copies, or distribute electronic copies via e-mail or by posting for use on the Internet.

NOAA RespondersCharts are provided for free, in Adobe PDF format at [www.NauticalCharts.gov/RespondersChart](http://www.NauticalCharts.gov/RespondersChart). Commenting and annotating usage rights have been enabled. **Adobe Reader 7.0 or later is required** to use the commenting and annotating functionality. Adobe Reader is free at [www.Adobe.com](http://www.Adobe.com).

RespondersCharts have been reduced in size to 11" by 17" so as to be printable on a wide variety of printers. Because of the severe reduction in scale, detailed information is difficult to read. Use full scale NOAA nautical charts for navigation.

### Tips for Commenting and Annotating

Pictures and text can be **Cut** and **Pasted** directly from an authoring package such as Microsoft Word. Try it to see how it behaves.

Use the menu items **Tools -> Drawing Markup -> TextBox** or **CallOut** to insert boxes for text. Then type or cut and paste text into the boxes.

Highlight a TextBox or CallOut, right click on your mouse, and select **Properties** to change the fill color and border of the item.

Use the menu items **Tools -> Commenting -> Stamps** to replace the "Revised" stamp with one containing the current date.

Use the menu items **Tools -> Drawing Markup -> Line, Polygon Line, Polygon Tool**, etc. to draw on the chart. Add explanations of your additions with the **Tools -> Drawing Markup -> CallOuts**.

Use the menu items **Help -> Complete Help** to learn all about the commenting and annotating tools available in Adobe Reader.

### Tips for Printing

Use the menu item **File -> Print -> Name** to select your printer. Then select **Properties** to perform the detailed setup.

Set the **paper size** to 11"x17", and the **orientation** to "portrait."

To print the charts with your markups, choose **Document With Stamps** or **Document With Markups** from the **Comments and Forms** pop-up menu in the **Print** dialog box.

Set the other options for your printer, such as setting "Page Scaling" to "None," indicating which tray has 11"x17" paper, and the number of copies.

If your printer can print 2-sided, find the checkbox for that feature, and check it. If not, select "print odd pages" then reinsert the paper and select "print even pages" to get 2-sided printing.

If you do use 2-sided printing, the additional settings **Booklet Layout, Left Edge Binding, 2 pages/sheet** gives the most convenient combination of front and back side orientations.

Save a copy to your computer.  
Then use Adobe Reader 7.0 'Tools' to

Place your incident-specific information here.

## Points of Contact

**REVISED**

1:12 pm, Aug 24, 2006

# RespondersChart

## Chesapeake and Delaware Canal

(NOAA Chart 12277)



A miniaturized NOAA nautical chart for incident response planning and mangement. Use the full size NOAA chart for navigation.

- Annotate Using Tools in Adobe Reader 7.0
- PDF Format Prints on most printers
- Convenient 11"x17" Size
- Post on the Internet
- Compiled by NOAA, the Nation's Chartmaker.

National Oceanic and Atmospheric Administration  
National Ocean Service  
Office of Coast Survey  
[www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov)  
1-301-713-2770



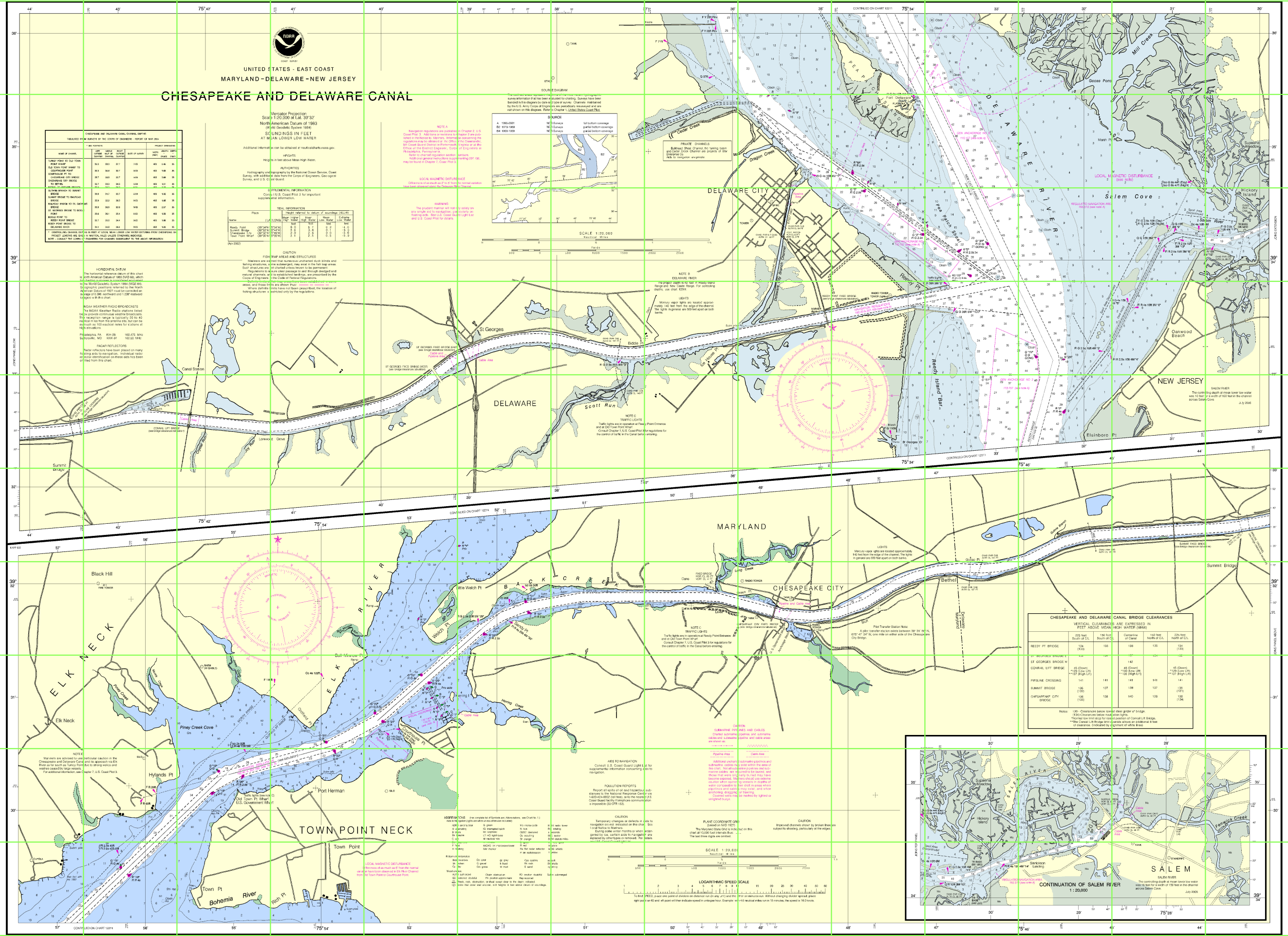


TABLE 1  
SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

NAME OF SOUND	DEPTH AT MEAN LOWER LOW WATER	DEPTH AT MEAN HIGH WATER
CHESAPEAKE CANAL	10.0	11.0
DELAWARE CANAL	10.0	11.0
BACK RIVER	10.0	11.0
ELK NECK	10.0	11.0
TOWN POINT NECK	10.0	11.0
BOHEMIA RIVER	10.0	11.0
SALEM COVE	10.0	11.0
REEDY ISLAND	10.0	11.0
DAWKINSON	10.0	11.0
ELLSBORO	10.0	11.0
SALEM	10.0	11.0

UNITED STATES - EAST COAST  
MARYLAND - DELAWARE - NEW JERSEY

CHESAPEAKE AND DELAWARE CANAL

Mercaator Projection  
Scale 1:20,000 at Lat. 39° 32'  
North American Datum of 1983  
SOUNDINGS IN FEET  
AT MEAN LOWER LOW WATER

Additional information can be obtained at [www.nauticalcharts.noaa.gov](http://www.nauticalcharts.noaa.gov).

HEIGHTS IN FEET ABOVE MEAN HIGH WATER

ALTIMETRIES  
Hydrographic and geodetic data by the National Ocean Service, Coast Survey, and other sources from the Corps of Engineers, Geodetic Survey, and U.S. Coast and Geodetic Survey.

COMPLEMENTAL INFORMATION  
Consult U.S. Coast Pilot 3 for important navigational information.

TELECOMMUNICATIONS

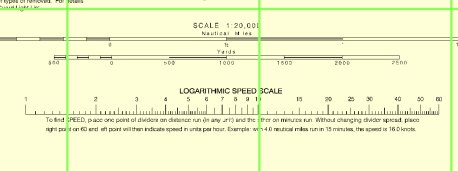
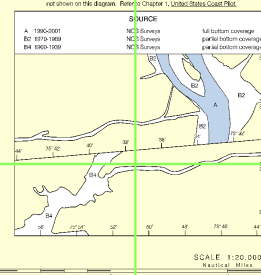
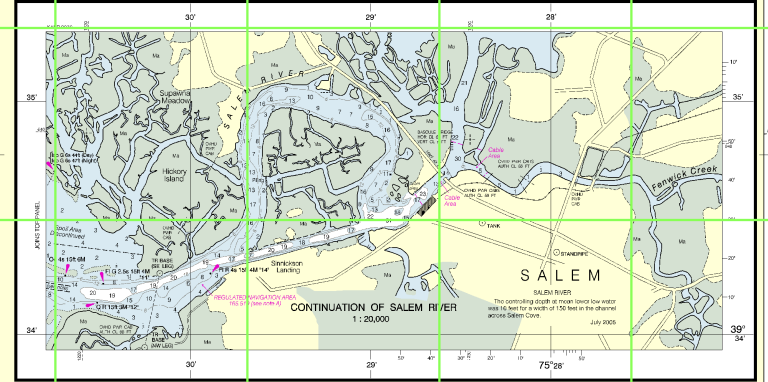
Name	Frequency (MHz)	Power (Watt)	Channel	Remarks
Radio Tower	160.6	100	160.6	Delaware City
Radio Tower	160.6	100	160.6	Chesapeake City
Radio Tower	160.6	100	160.6	Reedy Island
Radio Tower	160.6	100	160.6	Elksboro
Radio Tower	160.6	100	160.6	Salem

CHESAPEAKE AND DELAWARE CANAL BRIDGE CLEARANCES

HEIGHTS CLEARANCES ARE EXPRESSED IN FEET ABOVE MEAN HIGH WATER (MHW)

BRIDGE	225 feet Aft of CL	150 feet Aft of CL	Centerline of Canal	150 feet Aft of CL	225 feet Aft of CL
REEDY ISLAND BRIDGE	124 (115)	130	130	130	134 (125)
ST. GEORGES BRIDGE	142	142	142	142	142
CONRAD LIFT BRIDGE	45 (Clear) 112 (High Lift)	45 (Clear) 112 (High Lift)	45 (Clear) 112 (High Lift)	45 (Clear) 112 (High Lift)	45 (Clear) 112 (High Lift)
PIPELINE CROSSING	141	141	141	141	141
SUMMIT BRIDGE	136 (135)	137	138	137	136 (134)
CHESAPEAKE CITY BRIDGE	136 (135)	138	140	138	136 (134)

Notes: 130' - Clearances below water level of bridge.  
134' - Clearances below rock and other lights.  
112' - Clearances below top of lift structure.  
112' - Clearances below top of lift structure at Conrad Lift Bridge.  
112' - Clearances below top of lift structure at Conrad Lift Bridge.  
112' - Clearances below top of lift structure at Conrad Lift Bridge.



HORIZONTAL DATUM  
The horizontal datum of this chart is the North American Datum of 1983 (NAD 83), which is based on the World Geodetic System 1984 (WGS 84). All soundings are referred to the datum of 1983. The datum of 1983 is based on a geoid of 1980, which is 1.02 meters higher than the datum of 1929.

VERTICAL DATUM  
The vertical datum of this chart is the Mean Lower Low Water (MLLW) datum, which is based on the mean lower low water of the tide. All soundings are referred to this datum.

LOCAL MAGNETIC VARIATION  
Magnetic variation is shown in degrees and minutes. The variation is based on the magnetic declination for the year 2010. The variation is shown in degrees and minutes.

CAUTION  
This chart is not to be used for navigation. It is intended for reference only. The user is responsible for their own safety and the safety of others. The user should consult the appropriate authorities for the latest information.

NOTE A  
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NOTE B  
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