CGECS – Vega ECS Software (1.3.9.X): Install Charts / Load Charts and Chart Sets

JOB AID



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PREFACE

This document contains the Coast Guard Electronic Charting System CGECS – Vega ECS Software (1.3.9.X): Install Charts / Load Charts and Chart Sets Job Aid as designed, developed, and approved by the Training Branch of the United States Coast Guard Command and Control Engineering Center, Portsmouth VA.

This Job Aid pertains to CGECS – Vega ECS Software (1.3.9.X) and has a publish date of 16 February 2010. Confirm that you have the latest version of this Job Aid by checking the C2CEN website:

CGWEB.LANT.USCG.MIL/C2CEN/JOBAIDS.HTML

NOTE

Before using the CGECS – Vega ECS Software (1.3.9.X): Install Charts / Load Charts and Chart Sets Job Aid, the operator should have a basic understanding of electronic charting operations.

CGECS – Vega ECS Software (1.3.9.X): Install Charts / Load Charts and Chart Sets JOB AID

JOB AID APPROVAL

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INTRODUCTION

The CGECS – Vega ECS Software (1.3.9.X): Install Charts / Load Charts and Chart Sets Job Aid provides detailed steps to install and update charts, load charts, and load and edit chart sets utilizing the Vega system. It is normally performed by the CO, OIC, Navigator, OOD, JOOD, or other qualified bridge watchstanders.

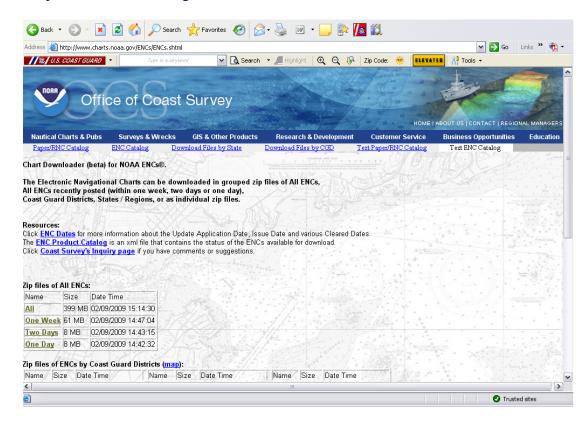
DOWNLOAD CHARTS / CHART UPDATES FROM NOAA WEBSITE

NOTE

Updates to both RNC (BSB) and ENC charts are available at the following web addresses: http://www.charts.noaa.gov/ENCs/ENCs.shtml http://www.charts.noaa.gov/RNCs/RNCs.shtml

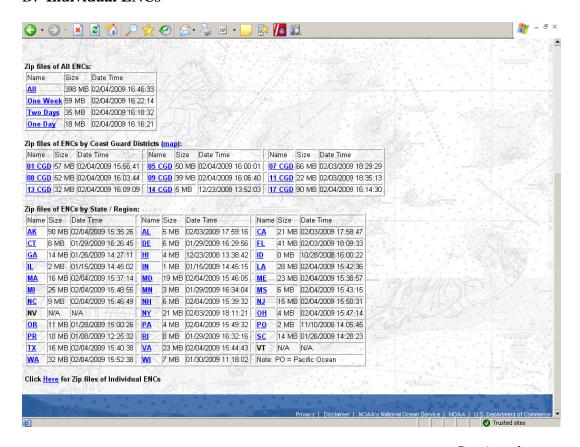
The procedures for downloading BSB and ENC charts are the same except where ENC procedures are shown.

- 1. Utilizing a Standard Workstation III (SWIII), open Internet Explorer.
- 2. Access NOAA at the following Web Address: http://www.charts.noaa.gov/ENCs/ENCs.shtml.

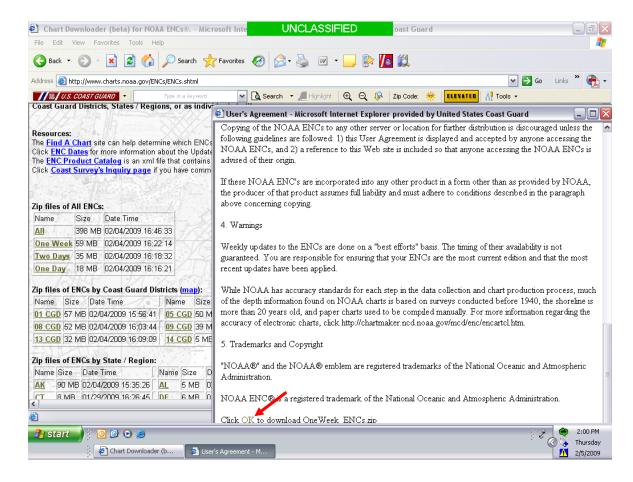


Continued on next page.

- 3. Ensure that there is a blank CD in the CD drive.
- 4. Click on a link from the following categories:
 - A. All ENCs
 - **B.** ENCs by Coast Guard Districts
 - C. ENCs by State/Region
 - D. Individual ENCs

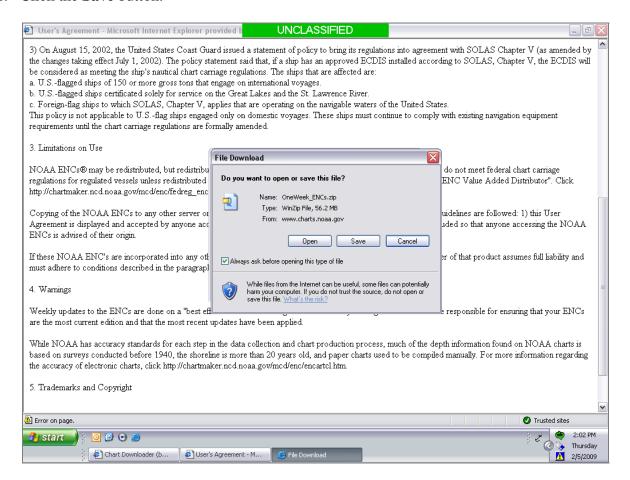


5. Read the USER AGREEMENT and click **OK** at the bottom of the window.



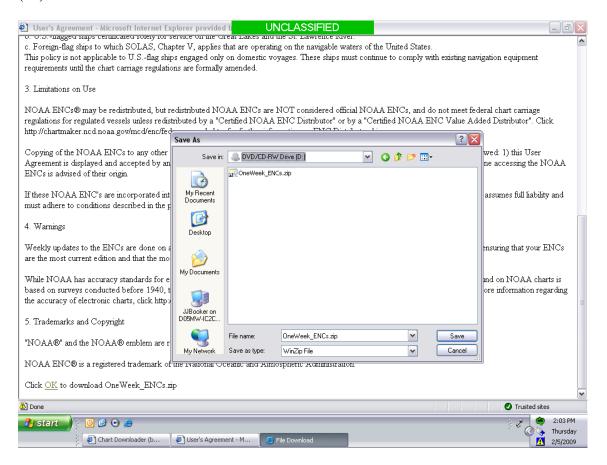
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6. Click the **Save** button.



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7. From the *Save in* dropdown menu, select the desired location to save the file (e.g., CD Drive (D:).



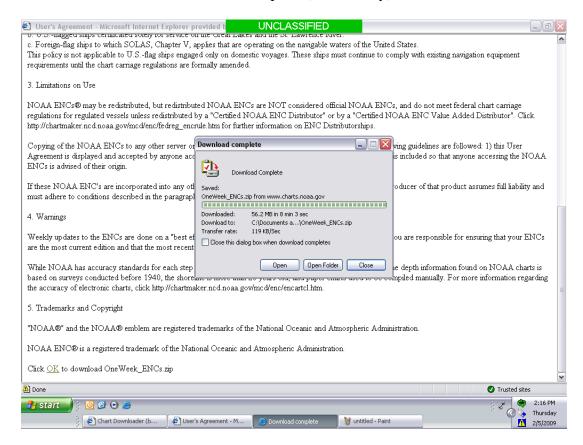
8. Click Save.

NOTE

The Download may take several minutes if grouped charts were selected.

Continued on next page.

9. Click **Close** when the download is complete (if necessary).



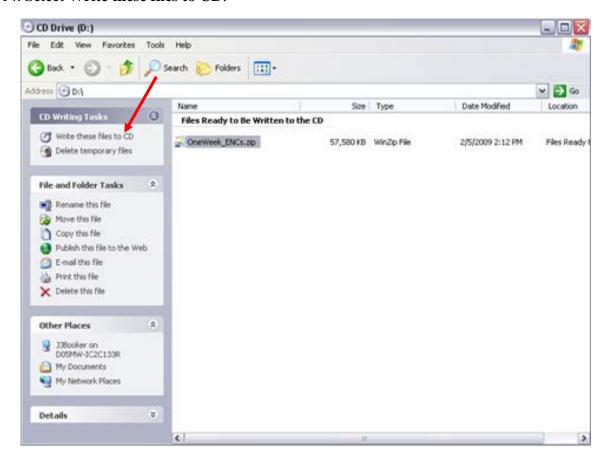
- 10. Close the USER AGREEMENT window.
- 11. Repeat steps 4 thru 11 as necessary.
- 12. Exit Internet Explorer.

Continued on next page.

NOTE

Steps 14 thru 18 are necessary ONLY if you saved zip files directly to a CD.

- 13. Access the CD drive on the SWIII.
- 14. Select Write these files to CD.



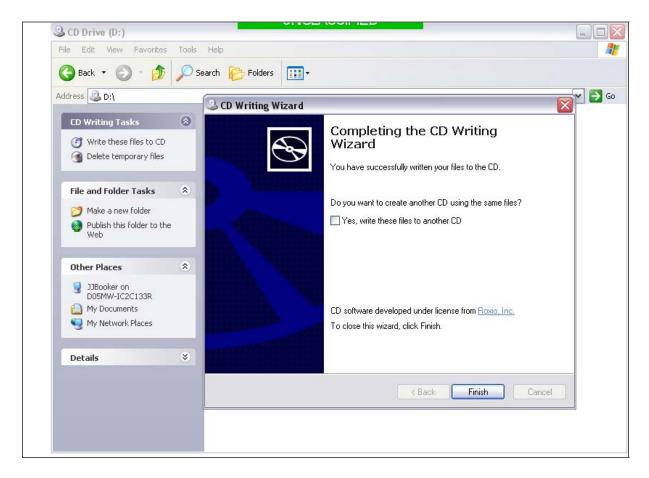
Continued on next page.

15. Change the CD name if desired, Click Next.



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16. Click **Finish** after the files are written to the CD.



17. Remove CD from SWIII.

INSTALL/UPDATE CHARTS

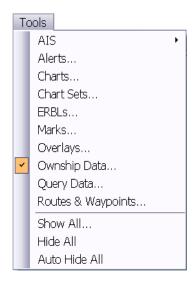
In order for the operator to load/display charts on Vega's Graphic Window, the proper format of charts; Electronic Navigational Charts (ENC) or Blue Marble Geographics, Seawall, Better Boating Bureau (BSB) must be installed in the system.

NOTE

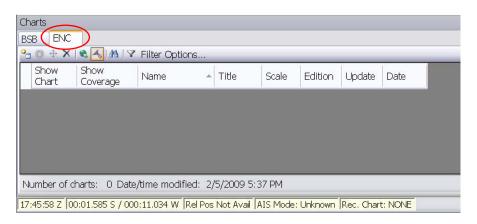
Charts can be installed and updated from a Monthly Updated CD or from a zip file that has been downloaded from the NOAA website.

The procedures for Installing/Updating BSB and ENC charts are the same except where ENC procedures are shown.

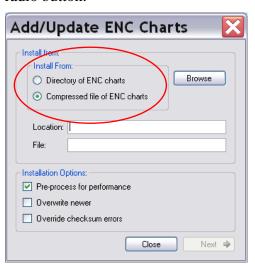
- 1. Insert the Monthly Update CD, a downloaded zip file CD, or other approved external storage device containing zipped chart data.
- 2A. Select Charts> Add/Update Charts> BSB or ENC and then proceed to step 5; **Or.**
- 2B. Select **Tools**> **Charts** on the System Menu Bar.



3. On the Charts window, select the **ENC** or **BSB** tab.



- 4. Click the **Add/Updates Charts** button found under the ENC or BSB tab.
- 5. Select **Directory of ENC/BSB Charts** or **Compressed** (zipped) **file of ENC/BSB charts** radio button.





6. Use **Browse** to select the location of the folder containing the directory of charts or to select the location of the compressed (zipped) file.

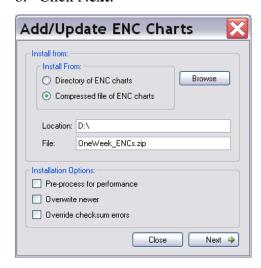
NOTE

If a monthly update CD is loaded prior to chart installation, the Location will automatically populate with the CD directory.

a. Highlight (click) the file or folder and click **Open**.



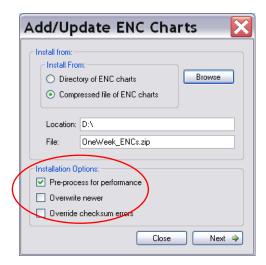
b. Click Next.





Select Installation Options if desired (see decision chart below):

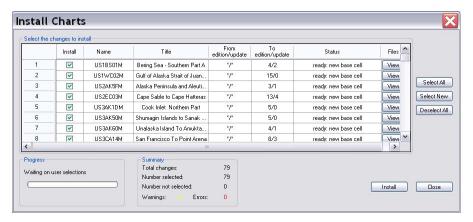
IF:	THEN:	
(ENC ONLY) System seems to be loading charts to the display slowly	Ensure "Pre-process for performance" is selected (this is the default) to improve load time	
Installing an older chart to an updated system	Check "Overwrite newer"	
(ENC ONLY) Overriding checksum errors	Check "Override checksum errors"	
(BSB ONLY) Override reprojection of non-mercator charts	Check "Override reprojection of non- mercator charts"	





7. Click Next.

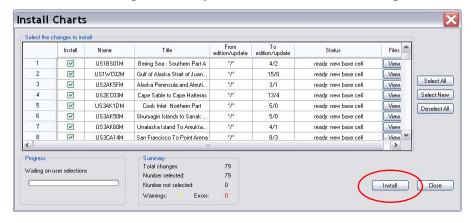
8. Select the charts to be installed.



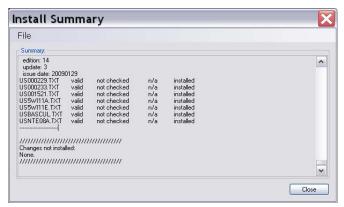
NOTE

Vega will automatically select charts that are not yet installed or charts that are more up-to-date than existing charts. Vega will **NOT** select older versions if Overwrite newer was not checked in step 7.

9. Click **Install** (this process may take several minutes to complete).



10. Review the Install Summary, click Close.



LOAD CHARTS

There are four chart loading methods:

Automatic Right Button Option Load From Chart Window Load Chart Set

Load Charts - Automatic Selection



1. Click Auto Select Charts.



3. Click "Show ENC Charts" to load ENC charts for the area.

NOTE

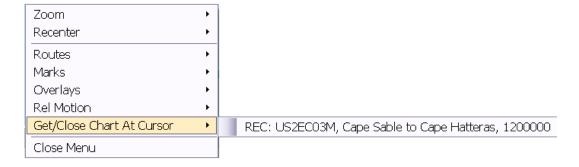
In Automatic mode, Vega selects the best chart type for the area. Both BSB and ENC chart types may be loaded / displayed at the same time.

NOTE

No other chart load method (i.e., Chart Window, Right Button Option, or Chart Set) will function when automatic mode is active.

Load Charts - Right Button Option

- 1. Left click on the **Show BSB Charts** and/or the **Show ENC Charts** (ensure that Auto Select Charts is deselected).
- 2. Right click on the Graphic Window.
- 3. Select Get/Close Chart at Cursor.



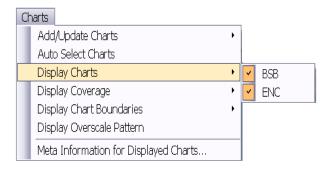
4. Select chart.

NOTE

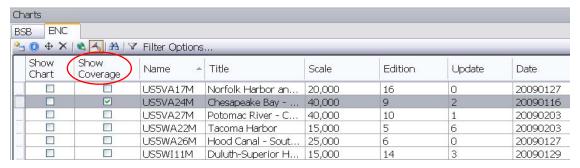
VEGA will place "REC:" before the chart it recommends based on cursor position and current chart width/scale.

Load Charts - From Chart Window

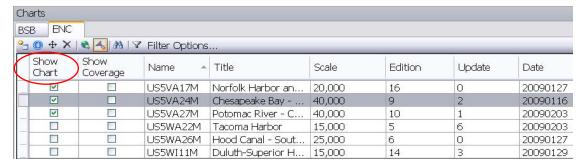
- 1. On the System Menu bar, select **Charts > Display Charts**.
- 2. Place a check next to the chart type (BSB or ENC).



- 3. On the System Menu bar, select **Tools > Charts**.
- 4. On the Charts window, scroll down to the desired chart.
- 5. Check **Show Coverage** to display an outline of the chart area (NOT required).



6. Check **Show Chart** for each chart you want to load.



7. Minimize or close the Charts window, if desired.

CHART SETS

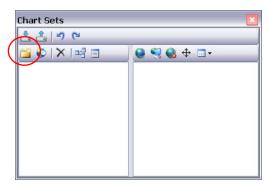
A chart set is a collection of charts selected by the user for a specific Geographic area. This selection will demonstrate how to create, load, edit and delete chart sets.

Create a Chart Set

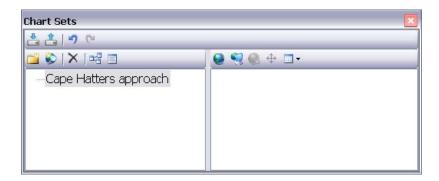
1. Select **Tools > Chart Sets**.



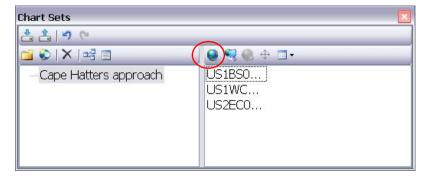
2. Click New Chart Set icon.



3. Type an entry for the New Chart Set Name.



4. Click the **Add Charts Selected For Display** to add the charts which are currently loaded/displayed on the Graphic Window.



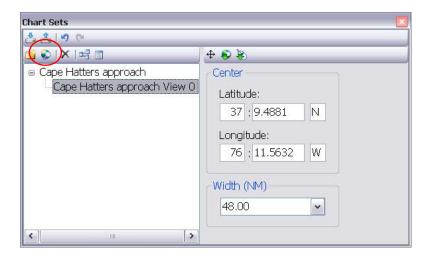
Continued on next page.



Click the Add a New View button.

NOTE

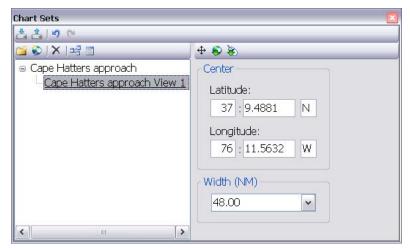
A Chart View allows the user to preset a specific display center (i.e., lat/long) and chart scale/width. When selected, the Vega display will focus on the designated position at the specified scale/width.



NOTE:

The default View is the center and width of the current graphic window.

6. Type an entry for the defaulted View, e.g., Cape Hatters approach View 1.





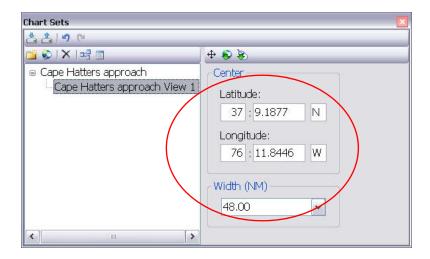
7. To change the center of the View,

click the Capture Mouse Position button.

NOTE:

The Latitude and Longitude of where the mouse cursor is clicked becomes the new center of the View, but does not change the current Graphic Window display.

- 6. Select the **Position** field, change the Position if desired.
- 7. Click the **Width** drop-down button.
- 8. Select the chart width to be displayed for the View being created.



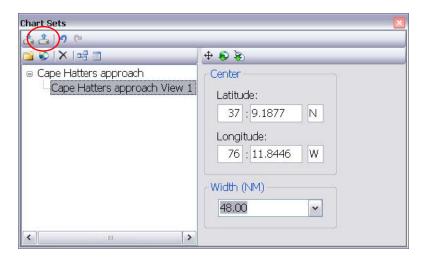
9. Repeat steps 5 thru 7 for each new View to be added to the Chart Set.

NOTE:

The Chart Set and Views are saved as you create them; they will remain until you delete them.

Export a Chart Set

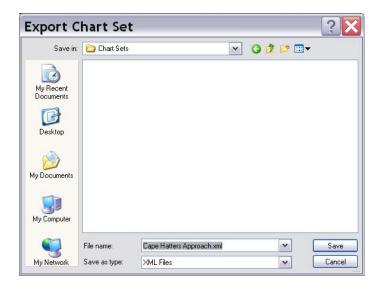
1. Click the **Export** button to save the Chart Set to a location outside of Vega.



- 2. **Check** Chart Set(s) to export.
- 3. Click the **Export** button.

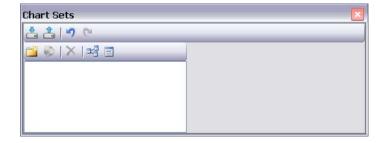


- 4. Type in the File name.
- 5. Click the **Save** button.



Import a Chart Set

1. Click the **Import** icon.

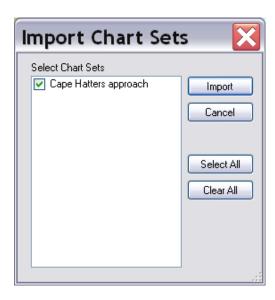


The Open dialog box will appear with a display list of all summary files in the "Chart Sets" or a uniquely defined directory.



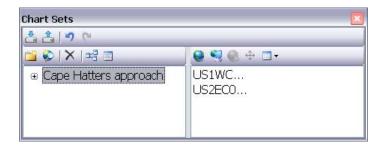
- 2. Left click on the file you want to import.
- 3. Click "Open."

The Import Chart Sets dialog box opens.



4. Click "Import."

The Chart Set appears in the "Chart Sets" dialog box.



Load a Chart Set

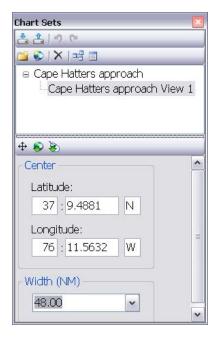
1. Select **Tools > Chart Sets**.



2. Expand a Chart Set by clicking on the plus (+) sign.

Continued on next page.

3. Double-click the desired Chart View to load.



NOTE

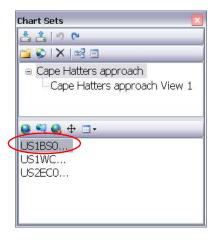
The View is displayed on the Graphic Window, at the location and chart width that the View was saved.

Remove Chart from Chart Set

1. Select **Tools > Chart Sets**.



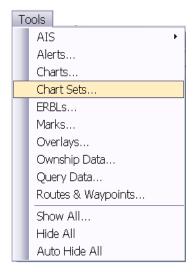
2. Select the chart to be removed from the Chart Sets dialogue box.



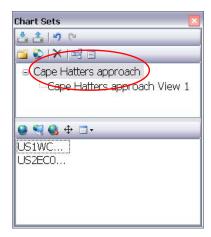
3. Click the **Remove Selected Chart** button.

Add a View to Existing Chart Set

1. Select **Tools > Chart Sets**.



2. Select the chart set from the Chart Set dialog box.



3. Click the **Add a New View** button.

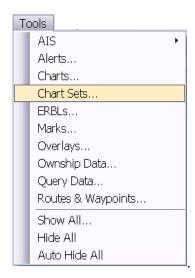


4. Rename the View.

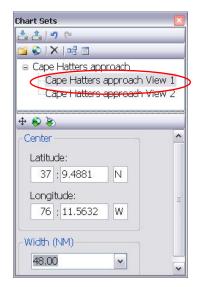


Remove View

1. Select **Tools > Chart Sets**.



1. Select View to remove from the Chart Set dialogue box.



2. Click the **Delete Selected View** button.

3. Click **Yes** to confirm removal of View.



DELETE CHART SET

1. Select **Tools > Chart Sets**.



2. Select Chart Set to be removed.



- 4. Click the **Delete Selected Chart Set** button.
- 5. Click Yes in the Confirm Chart Set Deletion Dialog box.



TERMS / ABBREVIATIONS / ACRONYMS

BSB A type of Raster Nautical Chart

CGECS Coast Guard Electronic Charting System

CO Commanding Officer

C2CEN Command and Control Engineering Center

JOOD Junior Officer of the Deck

NOAA National Oceanic and Atmospheric Administration

OIC Officer In Charge OOD Officer of the Deck

RNC Raster Navigational Charts SWIII Standard Workstation III VRM Variable Range Marker