

RNC Viewer – A New Tool

- Accessible from home page
- <https://www.nauticalcharts.noaa.gov/>
or...
- <https://nauticalcharts.noaa.gov/RNCOnline/rnconline.html>
- Provides ability to compare chart with satellite imagery

ENC Viewer

- Same chart/imagery capabilities as RNC Viewer

<https://nauticalcharts.noaa.gov/ENCOOnline/enconline.html>

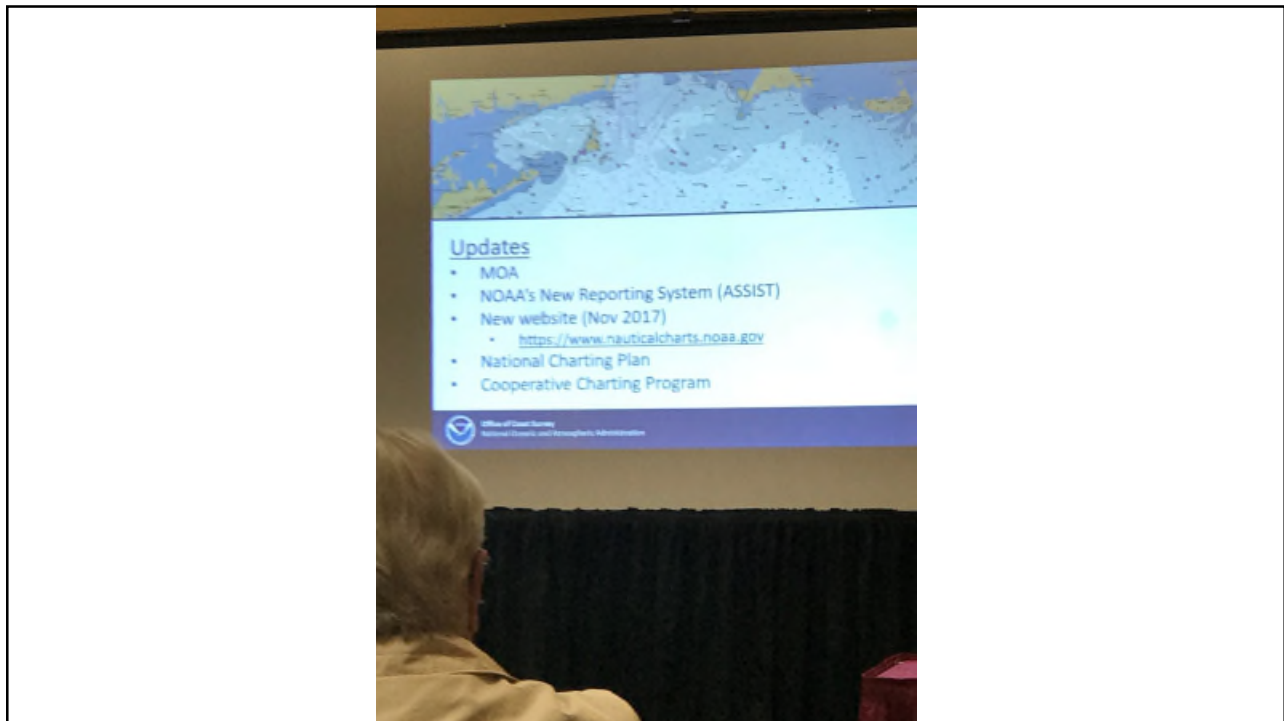
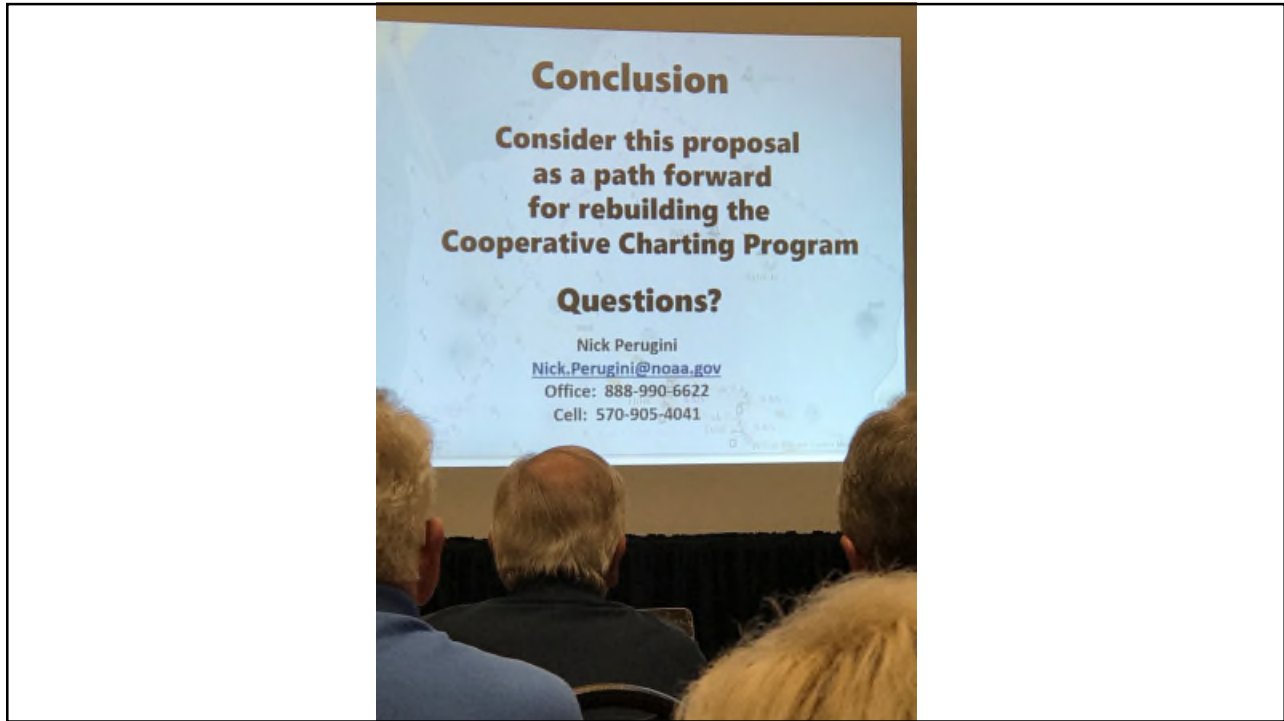


Examples of Information on Chart Questionnaire

- **Construction areas on the charted bridges—confirm their existence and general character. (Do not make vertical or horizontal measurements).**
- **Confirm boat ramps in the area**
- **Identify areas where marinas are not properly represented**
- **Confirm overhead cable areas**
- **Identify areas where magenta ICW line may be incorrect/misleading**
- **Identify areas where local boaters have noted depth discrepancies**
- **Provide names of contacts who might have local knowledge of the area.**
- **Check all charted notes for adequacy**
- **Check Coast Pilot for adequacy**
- **Provide additional information on discrepancies listed in the Local Notice to Mariners**

Proposed Timeline for Implementation




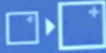




- **Between now and April 1, 2018: NOAA draft questionnaire**
- **Apr 1 - May 1, 2018: NOAA and Co-Op charting committee finalize questionnaire**
- **May 1, 2018: NOAA makes questionnaire available for distribution through Co-op Charting Committee**
- **October 1, 2018: Squadrons submit Adopt-A-Chart annual report**
- **February 1, 2019: NOAA provide feedback to Squadrons**



National Charting Plan Overview

Purpose Improve NOAA nautical chart coverage, products, and distribution

Improvements

Reduce unwarranted alarms 	Convert to metric 	Provide timelier data 	Improve chart coverage 
Create an orderly layout 	Reduce uncertainties 	Improve chart update information 	Increase efficiency 

Outcome Ease of access to more precise, higher-resolution charts that deliver the most up-to-date navigation information possible

Public comment period for Feb 2017 draft ended June 30, 2017
Updated final version was released Oct 2017

<https://nauticalcharts.noaa.gov/publications/docs/national-charting-plan.pdf>

Office of Coast Survey
National Oceanic and Atmospheric Administration



Mark Registry in the Geodetic Survey Database

PID (Permanent Identifier) - All marks in the NGS Database have a unique PID consisting of 2 letters + 4 digits. The PID does not appear on the disk.

PID Examples: **DK0943, EZ8211**

Designation (Name) - Nearly all marks also have a name stamped on the disk that is also recorded in the NGS Database.

Designation Examples: **name of a person, place, thing, or an alpha numeric.**

Planning for a Marker Recovery

There are several resources in the NOAA / NGS website to assist in Marker Recoveries

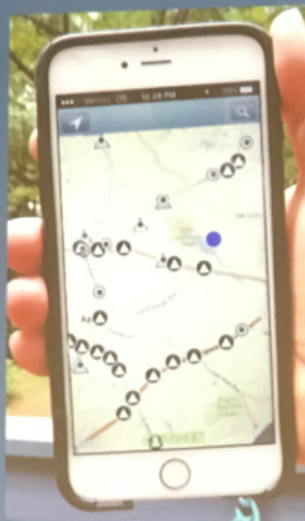
The most useful among these is
“National Geodetic Survey Data Explorer”
which shows the location of all markers in a given area on a zoomable map with search functions.

<https://www.ngs.noaa.gov/NGSDataExplorer/>



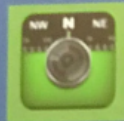
“FindAContol” - Example App for
Locating and Navigating to Marks

1) Open App
and it shows
Marks nearby





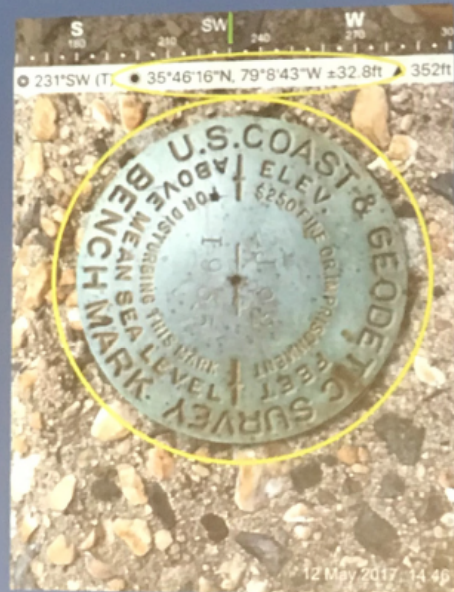
"BenchMap" – Android App for Locating and Navigating to Marks



Solocator™ - Example App for Taking Pictures

Take picture of mark with this phone camera app, and picture shows:

- Mark
- Coordinates



Mark Recovery Credits

- Geographical Mark (tower, cupola, etc.) – **0 credits**
- Horizontal Mark - **5 credits**
- Vertical or Vertical/Horizontal Mark – **10 credits**
- "Not recovered, not found" for a Horizontal or Vertical Mark, **2 credit**
- Bonus for Vertical or Horizontal Mark not recovered in the past 5 years. – **4 credits**
- Bonus for mark recovered where last recovery was "Not recovered, not found" – **25 credits**
- Bonus for Vertical or Horizontal Mark not recovered in the last 25 years. – **25 credits**

<https://www.usps.org/index.php/departments/12000/12000/geodetic-program>
Select: Standard Operating Procedure – Geodetic SOP

Steps for Reporting a Mark Recovery

Preparing Your Pictures for a Mark Recovery Report

Note: Each picture used in a recovery report must have the PID in the filename!

Steps if you use a Smart Phone Camera with recommended Solocator* App to take pictures of the marks found:

1. Make a new folder on your computer with the date of your geo mark recovery outing - example: Geo 06-12-17
2. Connect your Smartphone to the computer, and move or copy your mark pictures to that folder
3. Within that folder, add a new folder for each different mark found and name folder with the marks PID number - example EZ 2951
4. Move all pictures of a given mark into it's correct folder
5. In each folder, pick out the best picture of the mark and rename it so that it has the mark's PID in the filename, e.g. EZ 2951 Pic

Where do I go to submit a **Marker Recovery Report?**

1. go to the **USPS Homepage** at www.usps.org
2. at top of page select **Member's Log In**
3. Log in with your **Certificate No. and Pin**
4. at top of page select **Departments**
5. from dropdown list select **Executive Department**
6. from next dropdown list select **Cooperative Charting Committee**
7. on left of CCC page select **Geodetic Program**
8. near bottom next page select **Reporting – Geodetic Reporting**
9. at bottom of next page select **Geodetic Report Form 2018**

Where do I go to submit a **Marker Recovery Report?**

1. go to the **USPS Homepage** at www.usps.org
2. at top of page select **Member's Log In**
3. Log in with **Certificate No. and Pin**

The screenshot shows the login interface for United States Power Squadrons. At the top, there are navigation links: Home, Ship's Store, Member's Log In, and America's Boating Club. The main header features the United States Power Squadrons logo and the text "United States Power Squadrons®" with the tagline "Come for the Boating Education... Stay for the Friends™". Below this, a message states "USPS Members - Use your Member Certificate as the User Name and your PIN for the Password." The login form includes two input fields: "User Name or USPS Certificate" with the value "E223394" and "Password or USPS PIN" with masked characters. There is a "Remember me" checkbox which is currently unchecked, and a "Log In" button. At the bottom of the form, there is a link for "Forgot your password?".

at top of page select **Departments**
 from dropdown list select **Executive Department**
 from next dropdown list select **Cooperative Charting Committee**

The screenshot shows the top navigation bar of the United States Power Squadrons website. The 'Departments' dropdown menu is open, showing a list of departments. The 'Executive Department' is selected, and its sub-menu is also open, showing the 'Cooperative Charting Committee' as the selected option. Other departments listed include Chief Commander, Educational Department, Administrative Department, Secretary's Department, and Treasurer's Department. Other sub-menu items include Environmental Committee, Marketing Committee, National Meetings Committee, Public Affairs Committee, Public Relations, and Safety Committee.

7. on left of Coop Charting Committee page
 select **Geodetic Program**

The screenshot shows the 'Cooperative Charting Committee' page under the 'Executive Department'. The page title is 'Cooperative Charting Committee'. Below the title, it says 'THE USPS / NOS/NOAA COOPERATIVE CHARTING PROGRAM'. The main content describes the program's purpose and mentions the 'Geodetic Program'. On the left side, there is a sidebar with a search bar and a list of links. The 'Geodetic Program' link is highlighted in blue.

7. on left of Coop Charting Committee page
select **Geodetic Program**

Member Home Public Home Site Index How Do I Resources Departments Committees Job Tools

United States Power Squadrons

Executive Department
Cooperative Charting Committee

Search

CoCh Home Page

- How to get involved
- Nautical Field Activities
- Nautical Activities
- Nautical Reporting
- Geodetic Program**
- Credits and Awards
- National Committee
- NOS Marine Chart Division

THE USPS / NOS/NOAA COOPERATIVE CHARTING PROGRAM

Cooperative Charting Program of the United States Power Squadrons is conducted in close coordination with the Marine Chart Division, **National Ocean Service (NOS)**, **National Oceanic and Atmospheric Administration (NOAA)** of the U.S. Department of Commerce, The United States Coast Guard, and The United States Army Corps of Engineers. The Program is a major public service of USPS. Under it, members supply information to the above agencies, leading to corrections to nautical charts and Coast Pilot publications.

The Aid-To-Navigation and Bridge Inspection programs support the USACE and Coast Guard in assuring waterways are properly marked and maintained.

We have been told that the Cooperative Charting Program is recognized as the most effective user-participation program in all of the Federal services.

The Cooperative Charting Committee also maintains a Geodetic Program. Geodetic marks are highly accurate reference points established on the surface of the earth by local, state, and national agencies. Maintenance and preservation of these marks is of utmost importance to users of the net and to NGSD, recognizing that many valuable geodetic marks are destroyed by construction, new roads, erosion, or for other causes. Our job is to locate each of these marks and report their condition together with any change in the directions needed to locate them.

8. near bottom page select **Reporting -- Geodetic Reporting**

Member Home Public Home Site Index How Do I Resources Departments Committees Job Tools Logoff

United States Power Squadrons

Executive Department
Cooperative Charting Committee
Geodetic Program

Standard Operating Procedure -- Geodetic SOP.

Planning -- Planning for your Geometric Mark Recovery.

Preparation -- Preparing for your Geometric Mark Recovery Field Work.

Reporting -- Geodetic Reporting.

Worksheet -- [Geodetic](#)

Field Guide and Summary -- [Geodetic Mark Recovery](#)

Credits --

2017 Standings through Sept 30th

9. at bottom of Geodetic Reporting page select **Geodetic Report Form 2017**

Geodetic Mark Recovery Reporting

Geodetic Mark Reports are to be submitted to the Cooperative Charting Committee, not directly to NGS. Use the submittal form found at the link at the bottom of this page. A member of the Cooperative Charting Committee will review the form and, if approved, submit the data to NGS. Before starting to fill the form, have the following information readily available:

- Photo of mark (if found) and GPS

Worksheet -- Geodetic Worksheet.

A CoCh Committee Member will review the report and if approved, will submit to NGS and assign the credits.

Geodetic Report Form 2017

Remember, keep it simple and make it fun!

9. at bottom of Geodetic Reporting page select **Geodetic Report Form 2017**

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Geodetic Report Form 2017


Remember, keep it simple and make it fun!

Report Year is Jan 1 – Dec 31

You have 30 days from date of a mark recover to submit a report!

Marker Submittal Report

First Page



United States Power Squadrons
Geodetic Mark Recovery
2017

Date of Recovery *
 - -
If this is a resubmittal, enter the original report number.

Primary Observer *

Certificate No.	Name	Squadron	% Credit	Initials
E223394	Greg Shay	Raleigh	25	GDS

E-Mail * District *

Additional Observers

	Certificate No.	Name	Squadron	District (Dist)	% Credit
1	F052389	Connie Shay	Raleigh	D27	25
2	E224790	Kevin Lyon	Raleigh	D27	25
3	E224791	Ginny Esch	Raleigh	D27	25
4					
5					

Marker Submittal Report

Second Page
1st Mark

Enter the mark's
PID and the
Type of Mark

Enter PID *

Type of Mark
 Geographic
 Horizontal
 Vertical

Select Condition of Mark (See SOP instructions for criteria.)

Condition
 Good
 Not Recovered / Not Found
 Poor / Disturbed / Mutilated / Requires Maintenance
 Destroyed

Recovery Notes

Upload Photos

0.5MB
 0.5MB
 0.4MB

Horizontal or Vertical in Submission Report?

The prior guideline for USPS determination of Horizontal or Vertical Control based on NGS Data Explorer symbol descriptions is:

- Consistent with NGS criteria
- Easy to use without ambiguity
- Does not require data sheet interpretation
- Gives the correct USPS submission report designation for nearly all marks found

However, the USPS Cooperative Charting Committee provides an additional guideline that can be more liberal for credits in some instances: If the NGS datasheet says "Adjusted" anywhere in vertical data, the mark can be designated VERTICAL in the submission report.

Marker Submittal Report

Enter the mark's
Condition
and brief
Recovery Notes

Enter PID *

DF5351

Type of Mark

Geographic

Horizontal

Vertical

Select Condition of Mark (See SOP instructions for criteria.)

Condition

Good

Not Recovered / Not Found

Poor / Disturbed / Mutilated / Requires Maintenance

Destroyed

Recovery Notes

The marker was recovered as described, but the referenced building next to it is no longer there.

Upload Photos

Upload a File

DF5351 - 842_7108.JPG 0.000

DF5351 - 842_7111.JPG 0.000

DF5351 - 842_7113.JPG 0.000

Marker Submittal Report

Submission Page
Last Page
(Page 7)

Submit Report

The following section is for committee use. Skip to the bottom of this page to Print and / or Submit your report.

Reviewer	Date	Accepted	Credits
<input type="text"/>	<input type="text" value="yyyyymmdd"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>

Reviewer's Comments

Note:
Once the report has been reviewed, you will receive a confirming email from the reviewer or geomarkrecovery@gmail.com giving you the status. Add this address to your contacts so the message is not blocked as spam.