

# Cooperative Charting Presentation

Presented by Tom & Joanne Hancock



Cooperative Charting webpage - <https://www.usps.org/index.php/departments/12000/12200>



**Executive Department**

## Cooperative Charting Committee

[CoCh Home Page](#)

[How to get involved](#)

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[Nautical Program](#)

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### THE USPS COOPERATIVE CHARTING PROGRAM

Cooperative Charting Program of the United States Power Squadrons is conducted in close cooperation with United States Army Corps of Engineers, the United States Coast Guard and NOAA's National Geodetic Survey Division (NGSD). The Program continues to be a major public service of USPS. As in the past, members supply important information to the above agencies so updates can be made to nautical charts and the National Survey Marker databases.

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

The Cooperative Charting Committee maintains a Geodetic Program where members help to verify the accuracy of 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.

We have been complimented by government leadership that the Cooperative Charting Program is recognized as the most effective [user-participation program](#) in all of the Federal Services.

#### Committee Members

- R/C Thomas J. Peltier, SN-IN
- Stt/C Tom Hancock, P
- Lt Steve Schmidt, JN
- Lt Jose A. Garnham, SN
- Mack L. Gordy Jr., AP-IN
- D/Lt Joanne Hancock, SN
- Stt/C Bob Holub, SN-ON
- P/R/C Diane M. Julum, JN-IN
- P/D/C Mahmoud M. Abdel-Monem, SN
- R/C Ann Peltier, SN-IN
- P/R/C John J. Rodgers, SN-CN
- D/Lt Jim Strothers, SN-IN
- P/R/C Horst Boettge, SN
- D/C Greg D. Shay, JN-ACN

#### For Data Security Reasons

New Principle Observer are required to request authorization to create a report

[Link to Password](#)

Effective July 1, 2018, the Cooperative Charting Program will no longer accept Nautical Items that previously were reported to NOAA or those items that were traditionally published in the Coast Pilot.

Please read the updated [Nautical Program Standard Operating Procedures](#) on this website for specific information that is classified as acceptable reported items.

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[2018 Power Point Presentation - Annual Meeting](#)

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Geodetic Seminar: "The Joy of Geodetics"

[Part 1](#) [Part 2](#) [Part 3](#)

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**History of Cooperative Charting**

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[Golden Eagle Award Recipients](#)

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Standard Operating Procedures

[Nautical Reporting](#) and [Geodetic Program](#)

Cooperative Charting entails two programs: geodetic and nautical.



# Nautical Program

## Helpful resources:

### USCG Light List

<https://www.navcen.uscg.gov/?pageName=lightlists>

### Local Notice to Mariners

<https://www.navcen.uscg.gov/?pageName=lnmMain>

### NOAA Nautical Chart Catalog and Chart Viewer

<http://www.charts.noaa.gov/ChartCatalog/MapSelect.html>

### Local Notice to Mariners

<https://www.navcen.uscg.gov/?pageName=lnmMain>

### ATON Discrepancy Report Form

<https://www.navcen.uscg.gov/?pageName=atonOutageReport>

**NAVIGATION CENTER**  
The Navigation Center of Excellence

U.S. Department of Homeland Security  
UNITED STATES COAST GUARD

Home | LNMs | Nav Rules | AIS | NAIS Data Request | MSI Data Downloads | GPS Constellation Status | GPS Testing | Almanacs | USCG Infr Ice Patrol | Contact Us | Search

**Light Lists**

- Light List Volumes
- Weekly Light Lists (XML and PDF)
- Light List Summary of Corrections

**Mission Areas**

- NAIS (and Data Distribution)
- Long Range Identification and Tracking
- Global Positioning System (Civil Support)
- AIS - Types, Messages, Etc.
- AIS - Are You In Compliance?
- CGSIC Information
- Nationwide DGPS
- NAVGEN Overview (PDF)
- LORAN C (archive)

**Maritime Safety**

- Maritime Safety Information Distribution
- Local Notices to Mariners
- Light List Volumes
- Navigation Rules - Amalgamated
- Maritime Telecommunications
- PAWISA
- International Ice Patrol (IIP)
- Public Notices for Bridges
- Nav Pubs and Documents
- Vessel Traffic Services
- USCG Homeport Website
- Coast Guard Safety Alerts (uscg.mil)


**Subscribe / Report (free)**

- Subscription Services / RSS (free)
- Report an ATON Discrepancy
- Report a GPS Problem
- Report an NDGPS Problem
- Report an LRIT Problem
- Report an AIS / NAIS Problem
- Contact Our Watch or SME

**LIGHT LIST (2018 ANNUAL PUBLICATION)**

Note: Light Lists corrected through the current LNM week are available in **XML** and **PDF** on the **Weekly Light List Page**.

These Light List products are corrected through the latest Coast Guard LNM for each Coast Guard District. To access them, click on the appropriate section map below or the links below the map. These publications contain a list of lights, sound signals, buoys, daybeacons, and other aids to navigation. The PDFs are 3 to 8 MB in size. It is recommended that Windows users right-click on their mouses, then click on "Save Target As..." to save the files to their hard-drives or other local storage medium.



**Office of Coast Survey**  
National Oceanic and Atmospheric Administration  
U.S. Department of Commerce

HOME | CHARTS | PUBLICATIONS | DATA | LEARN | CUSTOMER SERVICE | ABOUT US

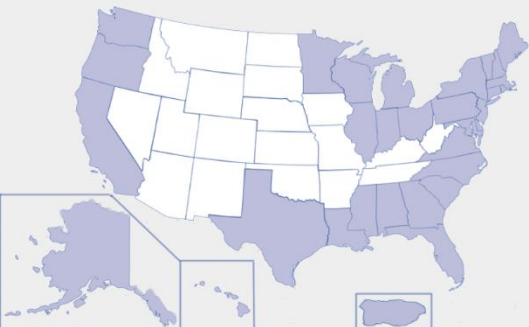
HOME >> CHARTS >> NAUTICAL CHART CATALOG

## NOAA Nautical Chart Catalog and Chart Viewer

**View and download 1000+ raster nautical charts**

NOAA's Nautical Chart Catalog gives you the ability to view any of NOAA's 1000+ nautical charts, as well as download NOAA's general use charts in three different raster formats: NOAA RNC® full size nautical charts in PDF format, and BookletCharts™

Select a region to access the Nautical Chart Catalog



# Types of Nautical Report Items:

- ATON Verification
- ATON Discrepancy
- ATON Inspection
- Bridge Discrepancy
- Bridge Verification

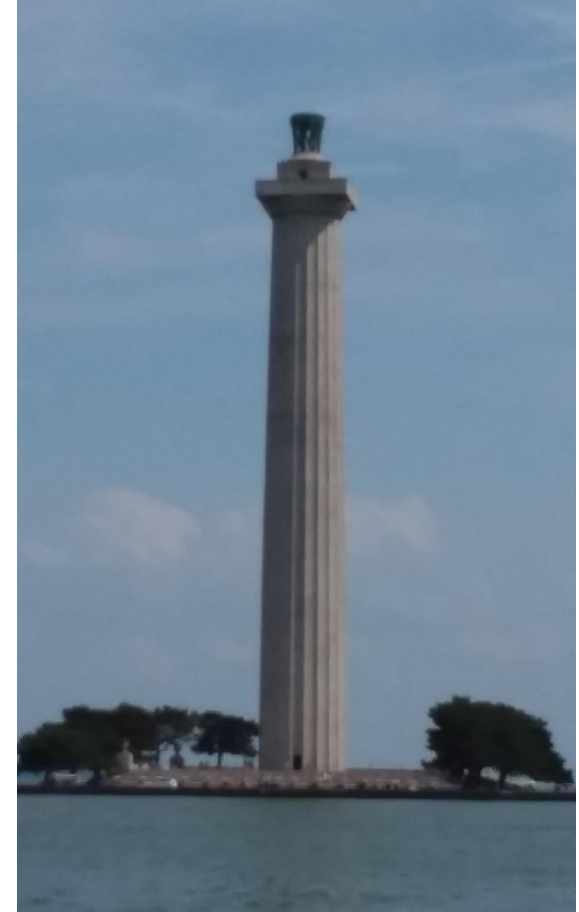
The observed items must fall into one of these categories.

A report can contain different types of report items.

A report can contain up to five (5) report items.

Reports must be submitted within 30 days of the observation.

Verification items can generally be reported once a year, discrepancy when found and inspection items annually or as the local management agency allows.





## United States Power Squadrons Nautical Survey Report 2019

Revised 02/27/2019

Date of Observation \*

-  -    
Month Day Year

If this is a resubmittal, enter the original report number.

Principal Observer

Certificate No. \*

Verify

% Credit

100

Email

  
example@example.com

Initials

Name

Squadron

District

Additional Observers (Total % Credit must equal 100)

	Certificate No.	Name	Squadron	District (Dnn)	% Credit
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Note: In addition to the upload requirements outlined below, you may also upload a chartlet or any other document that will clarify your report.

Enter the date of the observation. All items must be on the same date.

Leave the resubmittal field blank unless you are resubmitting a previous report.

Enter the primary observer's certificate number and click <Verify>. The other information will automatically populate. If you receive the message "Unknown Certificate No." you will have to register by following this link <https://form.jotform.com/90205712120137>.

The primary observer will be the person contacted should there be any questions concerning the report.

List all other observers associated with the reported items, with a maximum of six observers per report.

Assign % credit to each observer, making sure the % credits add up to 100, using whole numbers. Do not enter % symbol.

Click <Next> to move to the next page.

Page 1

Next

## Co-Op Observer Registration

Complete the form below to register as a principal observer.

- ☐ Original Request  
☐ Update

**Certificate No. \***

**Name \***

**Initials \***

**Email \***

ex: myname@example.com

**Squadron Name \***

- ☐ Power Squadron  
☐ Sail & Power Squadron

**District \***

ex. D01

Submit

## Primary Observer Registration

Use this form to register for the first time or to update your information.

Link to form: <https://form.jotform.com/90205712120137>

You will receive an email once your request is completed.

### Type of Report

- ☒ ATON Discrepancy
- ☐ ATON Verification
- ☐ ATON Inspection
- ☐ Bridge Discrepancy
- ☐ Bridge Verification

Notify the Coast Guard and upload the following:

- A copy of the Coast Guard acknowledgement of your notification.
- A photograph of the aid,

Information from the Light List (If required).

### LL Volume

7 USCG District 9, Great Lakes & St. Lawrence Seaway.

### Aid No.

18540

### Aid Description

Ashtabula Light

### Upload Forms / Photos

Upload a File

### Comments

Light is burned out.  
Coast Guard contacted using online form.

Page 3

☐ Jump to last page when clicking on Next

Back

Next

# ATON Discrepancy

## Select ATON Discrepancy

Remember to check the Local Notice to Mariners (LMN) to determine if the discrepancy has already been reported.

Then contact the Coast Guard to file an ATON Discrepancy Report.

Select the volume of the Light List your item appears in.

### LL Volume

- 1 USCG District 1, Atlantic Coast - Northeast
- 2 USCG District 5, Atlantic Coast - Middle
- 3 USCG District 7, Atlantic Coast - Southeast, PR, VI, Gulf Coast of FL.
- 4 USCG District 8, Gulf Coast - FL to TX.
- 5 USCG District 8, Mississippi River System.
- 6 USCG Districts 11, 13, 14 & 17 - Pacific Coast & Islands.
- 7 USCG District 9, Great Lakes & St. Lawrence Seaway.

Enter the Aid No and Aid Description defined by the Light List.

Upload supporting document(s) and photo(s) related to this item.

In the Comments box indicate the Coast Guard contact method and the observed discrepancy.

Credits awarded – 50 for each ATON

Page navigation – Click Back to go to previous page, Click Next to proceed to next page. If current page is your final item you can select the box next to “Jump to last...” to go to the last page.

Type of Report

☐ ATON Discrepancy

☒ ATON Verification

☐ ATON Inspection

☐ Bridge Discrepancy

☐ Bridge Verification

Upload a photograph of the aid and enter the Light List information for it below.

Information from the Light List (If required).

LL Volume

7 USCG District 9, Great Lakes & St. Lawrence Seaway.

Aid No.

4370

Aid Description

Inner Harbor Day beacon 1

Upload Forms / Photos

Upload a File

Comments

☐ Jump to last page when clicking on Next

Back

Next

# ATON Verification

Select ATON Verification

Select the volume of the Light List your item appears in.

LL Volume

1 USCG District 1, Atlantic Coast - Northeast

2 USCG District 5, Atlantic Coast - Middle

3 USCG District 7, Atlantic Coast - Southeast, PR, VI, Gulf Coast of FL

4 USCG District 8, Gulf Coast - FL to TX.

5 USCG District 8, Mississippi River System.

6 USCG Districts 11, 13, 14 & 17 - Pacific Coast & Islands.

7 USCG District 9, Great Lakes & St. Lawrence Seaway.

Enter the Aid No and Aid Description defined by the Light List.

Upload supporting photo(s) related to this item.

Credits awarded – 25 for each ATON

Page navigation – Click Back to go to previous page, Click Next to proceed to next page. If current page is your final item you can select the box next to “Jump to last...” to go to the last page.



### Type of Report

- ☐ ATON Discrepancy
- ☐ ATON Verification
- ☒ ATON Inspection
- ☐ Bridge Discrepancy
- ☐ Bridge Verification

Upload one of the following:

- An Excel file containing the chart number and ATON name for each aid inspected.
- A copy of the light List page(s) with the inspected ATONs highlighted.

Information from the Light List (If required).

LL Volume

Aid No.

Aid Description

Upload Forms / Photos

Upload a File

Comments

Lake Hartwell, zone 1A, 169 ATONs

Page 2

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# ATON Inspection

## Select ATON Inspection

This type of report occurs where Lake Hartwell and/or any other lake management/squadron agreement work is reported.

Create a separate item for each area, example Zone 1A and 3B.

Upload supporting document(s) related to this item.

In the Comments box enter a description of the area inspected and the number of ATONs observed.

Credits awarded – 25 credits for the first 10 ATONs and 5 credits for each additional group of 20 ATONs.

Page navigation – Click Back to go to previous page, Click Next to proceed to next page. If current page is your final item you can select the box next to “Jump to last...” to go to the last page.

## Bridge Discrepancy

### Type of Report

- ☐ ATON Discrepancy
- ☐ ATON Verification
- ☐ ATON Inspection
- ☒ Bridge Discrepancy
- ☐ Bridge Verification

Notify the Coast Guard and upload the following:

- A copy of the Coast Guard acknowledgement of your notification.
- Photographs of the bridge.
- Completed Form 7055.
- Enter the Light List information below if the bridge is included in the Light List.

Information from the Light List (If required).

LL Volume

Aid No.

Aid Description

Upload Forms / Photos

Upload a File

Comments

Page 2

☐ Jump to last page when clicking on Next

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Next

Check the light fixtures for damage and lighting.

Check the clearance gauges for damage and readability.

Check any regulatory signs for readability and damage.

Check for any bridge signaling devices or communication signs.

Check fender system for damage, deterioration or other problems.

Check for obstructions into the navigable channel.

Any discrepancies in the above items should be recorded on Form 7055 and reported to the Coast Guard.

Digital pictures of any discrepancies should be included as supporting documents to the report.

Check Bridge Discrepancy if any are observed.

Credits awarded – 50 for each bridge with discrepancies.

### Type of Report

- ☐ ATON Discrepancy
- ☐ ATON Verification
- ☐ ATON Inspection
- ☐ Bridge Discrepancy
- ☒ Bridge Verification

Enter the Light List information below if the bridge is included in the Light List and upload **both** of the following:

- Photographs of the bridge.
- Completed Form 7055.

Information from the Light List (If required).

### LL Volume

### Aid No.

### Aid Description

### Upload Forms / Photos

Upload a File

### Comments

Ashtabula Lift Bridge - No discrepancies found.

## Bridge Verification

Select Bridge Verification if no discrepancies are found.

Select the volume of the Light List your item appears in.

LL Volume

1 USCG District 1, Atlantic Coast - Northeast  
2 USCG District 5, Atlantic Coast - Middle  
3 USCG District 7, Atlantic Coast - Southeast, PR, VI, Gulf Coast of Fl.  
4 USCG District 8, Gulf Coast - FL to TX.  
5 USCG District 8, Mississippi River System.  
6 USCG Districts 11, 13, 14 & 17 - Pacific Coast & Islands.  
7 USCG District 9, Great Lakes & St. Lawrence Seaway.


Enter the Aid No and Aid Description defined by the Light List.

(Please note only bridges on the Mississippi River system appear in the Light List.)

Upload the [Form 7055](#) and photograph(s) of the bridge. Make sure the photograph shows the navigation span of the bridge.

In the Comments box indicate the name of the bridge and any other information.

Credits awarded – 25 for each bridge with no discrepancies.

<b>USPS</b> Cooperative Charting Form 7055		<b>United States Power Squadrons®</b> <b>7055 - BRIDGE REPORT</b>	Check the report type: <input type="checkbox"/> Discrepancy Report <input type="checkbox"/> Verification Report Report as a Mission 32 to AUXDATA
<b>SECTION 1 - MEMBER INFORMATION</b>			
REPORTER'S LAST NAME, FIRST NAME, MIDDLE INITIAL		AV QUAL	TELEPHONE NUMBER
			DIST-DIV-FLO
DATE OBSERVED	TIME OBSERVED	OPCON NUMBER or CG UNIT NAME	EMAIL ADDRESS
<b>SECTION 2 - COAST GUARD NOTIFICATION</b> (Fill in only if you already reported by phone, radio or e-mail to a CG unit.)			
COAST GUARD UNIT NOTIFIED	DATE REPORTED	TIME REPORTED	COMMUNICATION METHOD USED FOR REPORTING TO CG UNIT
<b>SECTION 3 - BRIDGE IDENTIFICATION</b>			
BRIDGE NUMBER	BRIDGE NAME		BRIDGE TYPE
			BRIDGE USE
NAME OF WATERWAY		MILES ABOVE MOUTH	LOCATION (FROM)
			LOCATION (TO)
LATITUDE [DDMMSS.SSS]	N/S	LONGITUDE [DDDMMSS.SSS]	E/W
			# ATTACHED PHOTOS
<b>SECTION 4- OBSERVED BRIDGE DISCREPANCY(S)</b>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <b>1. LIGHT SURVEY</b>            Check each type of light observed  <input type="checkbox"/> Pier Lights  <input type="checkbox"/> Center Channel Lights  <input type="checkbox"/> Center Margin Lights  <input type="checkbox"/> Preferred Channel Lights  <input type="checkbox"/> Channel Axis Lights  <input type="checkbox"/> Swing Span Lights  <input type="checkbox"/> Lift Span Lights            Check the light discrepancies that apply.  <input type="checkbox"/> Light is extinguished  <input type="checkbox"/> Light is wrong color  <input type="checkbox"/> Lantern is damaged  <input type="checkbox"/> Lantern is missing         </div> <div style="width: 30%;"> <b>2. CLEARANCE GAUGES</b>  <input type="checkbox"/> Clearance Gauge is damaged  <input type="checkbox"/> Clearance Gauge is unreadable  <b>3. REGULATORY SIGNS</b>  <input type="checkbox"/> Regulatory sign is missing  <input type="checkbox"/> Regulatory sign is unreadable  <input type="checkbox"/> Regulatory sign is damaged  <input type="checkbox"/> Regulatory sign colors faded  <b>4. BRIDGE SIGNALING DEVICES</b>  <input type="checkbox"/> Bridge signaling device is inoperative  <input type="checkbox"/> Bridge communication sign missing  <input type="checkbox"/> Bridge radio is garbled and unreadable         </div> <div style="width: 30%;"> <b>5. FENDER SYSTEM</b>  <input type="checkbox"/> Fenders deteriorated or rotted  <input type="checkbox"/> Fender is damaged by fire  <input type="checkbox"/> Vessel allision evident on fender system  <input type="checkbox"/> Wales are missing  <input type="checkbox"/> Wales protrude into the navigable channel  <input type="checkbox"/> Metal corner plates  <input type="checkbox"/> Exposed bolts protrude into the channel  <input type="checkbox"/> Debris protrudes into channel  <input type="checkbox"/> Protective dolphin(s) is damaged  <b>6. OBSTRUCTIONS IN NAVIGABLE CHANNEL</b>  <input type="checkbox"/> Obstructions hang below the span  <input type="checkbox"/> Cable(s) hangs into navigable channel         </div> </div>			
<b>SECTION 5 - COMMENTS</b> Fully describe the discrepancy in this section - all reports must have comments filled in. Use Alt+Enter for additional lines			
Date submitted	This form can be saved and attached to an e-mail.		v0913-1.0

Note: Form 7055 is used for internal purposes only. It is not forwarded to USCG.

## Submit Report

**Note:**

Once the report has been reviewed, you will receive a confirming email from your Area Rep giving you the status.

Submit

Print Form

Step 1

Back

Page 7

Before you submit the report you can:


Select the Back to review your work,

Select Print Form to print the report or save as a PDF.

**Print**

Total: **4 sheets of paper** (8 pages)

[Print](#) [Cancel](#)

Destination  HP ENVY 4520 series

[Change...](#)

Pages ☒ All **Step 2**

☐ e.g. 1-5, 8, 11-13

Copies

Layout

Color

Options ☒ Two-sided

[+ More settings](#)

Select a destination










Showing destinations for

thancock@neo.rr.com

**Recent Destinations**

-  HP ENVY 4520 series
-  Save as PDF
-  Dell Laser Printer 1720 XL

**Print Destinations** [Manage...](#)

-  Save as PDF **Step 3**
-  HP ENVY 4520 series
-  Send To OneNote 2010
-  Send To OneNote 16
-  Microsoft XPS Document Writer
-  Microsoft Print to PDF
-  Fax
-  Dell Laser Printer 1720 XL
-  Save to Google Drive

Your District Coop Charting Chair will review the report and forward it on to your National Cooperative Charting Committee reviewer.



# Geodetic Program



PID DE5174 - Located in Raleigh at the National Headquarters

## Helpful resources:

National Geodetic Survey Data Explorer

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

NGS Benchmark Viewer by ScaredyCatFilms

<http://benchmarks.scaredycatfilms.com/index.php>

Mobile App for Android phones (free download)

BenchMap

**National Geodetic Survey Data Explorer**

National Geodetic Survey

NGS Home | About NGS | Data & Imagery | Tools | Surveys | Science & Education

View Map | View List

Help  
Map Layers  
Go To Location  
Geographic Location  
County, City, Zip code etc  
Burke, VA  
Go  
Ex: Burke, VA or 22015  
Lat-Lon Location  
Dec Deg Location  
PID

Site Info  
Mouse over plotted marks to view information here.

Show/Hide Legend

**Getting Started**

**Plotting Geodetic Marks**

- Use the Go To Location on the menu to the left to zoom into the region and plot marks
- Right click on the map in your area of interest and select 'Place X'
  - You can change the radius used to plot marks under the Map Layers (15 mile max in Internet Explorer, 30 mile max other browsers)
- Zoom in to the region of interest
  - Click on the Map Layers section on the menu to the left
  - Select all of the types of marks to plot on the map
  - Click the "Find Marks" button

**Clearing Geodetic Marks**

- Click on the Map Layers section on the menu to the left
- Click the "Clear Marks" button

**Viewing the Mark List**

65° 39' 14" N, 165° 51' 0" W

Website Owner: National Geodetic Survey / Last modified by ngs.infocenter Tuesday, 06-Aug-2017 09:08:05 EST

NGS Employees | Privacy Policy | Disclaimer | USA.gov | Ready.gov | Site Map | Contact Webmaster

**NGS Benchmark Viewer**  
By ScaredyCatFilms

Click to visit the NGS website  
This site is not affiliated with NGS

State Select  
Select A State: Select A State  
Alabama  
Alaska  
Arizona

Instructions: Please select a state from the options at left. Users can select multiple states by holding the control (ctrl) key when selecting. Be aware that when multiple states are selected, the viewer performance may be slower. Users can bookmark a link to their favorite states or bypass the state select box by using the url link: benchmarks.scaredycatfilms.com/index.html?sel\_state=XX,YY where XX and YY represent the 2 character state code (user ORE and IND for Oregon and Indiana).

Display Options  
☐ Use Small Icons  
☒ Display Markers  
☐ Labels On  
[Mobile Viewer](#)  
[Show My Location](#)

Filter Options  
Search By PID:   
Search By County:   
Search By Recovery Year:  (YYYYMMDD) Format

Legend  
**Condition - Color**  
Good (Green)  
Monumented (Red)  
Not Found / Other (Black)  
Destroyed (Yellow)  
Cluster (Yellow)  
**Accuracy - Text**  
Adjusted (A)  
Scaled (S)  
Cluster (C)

Benchmark Map  
Select A State.

**BenchMap**  
TSQMadness Tools  
Everyone

Offers in-app purchases  
This app is compatible with your device.

Add to Wishlist  
Install

★★★★☆ 100

Map  
DataSheet  
Stations

Y 92  
WALSBURG HIEMER  
Z 92  
Y 21 RESET  
WALSBURG RADIO ST

# How to differentiate between Geographic, Horizontal and Vertical Stations

## Station List Results for: PIDs

Help  
Re-Sort-By ☐ Dist ☐ Pid ☐ Set ☐ Set\_By ☐ H ☐ V ☐ Vert\_Source ☐ Latitude ☐ Longitude ☐ Stab ☐ Cond ☐ Designatio

```
|Dist|PID...|Set.|Set_By|H V|Vert_Source|Latitude.....|Longitude.....|Stab|C|Designation
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|....|CK0873|1962|CGS...|0 1|88/ADJUSTED|N322728.32511|W0804400.05707|B...|G|D 105
|....|AQ2783|1991|FLDT..|0 2|88/ADJUSTED|N290111.96971|W0811925.92301|C...|G|79 91 GPS2
|....|MB1823|1983|NGS...|0 .|29/GPS OBS.|N410201.13209|W0812626.56243|C...|G|CARRIE
|....|MB2911|1963|OH0070|1 .|29/VERT ANG|N410155.36943|W0813410.88107|....|N|WEBB
|....|MB2916|1963|CGS...|3 .|.....|N410440.94099|W0813105.66978|....|G|AKRON ST BERNARDS CH S SPIRE
|....|MB3259|1985|NGS...|. 3|88/RESET...|N410608.8....|W0803919.1....|B...|G|A 109 RESET
```

```
MB2916
MB2916 MARKER: 90 = CHURCH SPIRE
MB2916_SETTING: 0 = UNSPECIFIED SETTING
MB2916_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
MB2916+SATELLITE: SATELLITE OBSERVATIONS - February 23, 2006
MB2916
MB2916 HISTORY - Date Condition Report By
MB2916 HISTORY - 1963 FIRST OBSERVED CGS
MB2916 HISTORY - 20060223 GOOD GEOCAC
MB2916 HISTORY - 20150116 GOOD USPSQD
MB2916
```

### Geographic –

- On the datasheet, if **MARKER:** is a number.
- If column **H** in the Station List Results is a 3 and column **V** is a period.
- If the station is an Airport Beacon, Airway Beacon, Antenna Mast, Belfry, Boundary Monument, Chimney, Church Cross, Church Spire, Cupola, Daybeacon, Dome, Elevated Tank, Finial, Flagpole, Flagstaff, Gable, Grain Elevator, Lighthouse, Lookout House, Lookout Tower, Microwave Mast, Microwave Tower, Navigation Light, Oil Derrick, Piling, Pole, Radio Range Mast, Radio/TV Mast, Radio/TV Tower, Range Marker, Signal Mast, Spire, Stack, Standpipe Tank, Tank, Tower or Water Tower

Horizontal – If column **V** is a period and column **H** has a value other than 3.

Vertical – If column **V** is not a period. If both columns **H** and **V** contain any letter number combination.

As with any rule there will be exceptions, but it is about 99% accurate.

### General:

- A mark recovery may not be submitted within 12 months of the last recovery unless there is a change of status from “Not recovered, not found” to “found” in which case it may be reported at any time.
- A mark may not be reported as “Not Found” if the previous report was “Not Found” or “Destroyed”.
- All required fields must be completed on the submittal form.
- Reports must be submitted within 30 days of the observation.

### Photographs:

- Must be saved as .jpg file with the coordinates and date visible in the photo or in the details tab of the properties file of the picture.
- When transferring photo files from a cell phone DO NOT “text” them; the properties file does not transfer.
- File size must not exceed 4MB.
- Rename the file as follows. PID- DESIGNATION- TYPE- DATE. Use dashes “-” to separate the above fields. This is required by NGS for photos submitted to them.
  - **PID** is the NGS ID for the mark. Example AB1234.
  - **DESIGNATION** is the official name for the mark, up to 25 characters. Spaces are not permitted in the file name. Use an underscore “\_” in lieu of spaces within fields.
  - **TYPE** Use -1- for close-up, -2- for eye-level, and -3DIR- for horizontal photos, with DIR indicating the direction the photo is facing, e.g., 3ENE for east-northeastward-looking.
  - **DATE** is the date photographed, in the format YYYYMMDD. Example 20180925
  - Example: **PB3456-A\_789-1-20180623**

### Credits:

- Geographical Mark (tower, cupola, etc.) – only destroyed – 10 credits
- Geodetic Mark – 10 credits
- "Not recovered, not found" for a Horizontal or Vertical Mark – 2 credits
- Mark not recovered in the past 5 years – 4 credits
- Mark not recovered in the last 25 years – 25 credits
- Mark recovered where last recovery was "Not recovered, not found" – 25 credits



# United States Power Squadrons Geodetic Mark Recovery 2019..

Revised 2/27/2019

## Date of Recovery \*

03 - 16 - 2019  
Month Day Year

If this is a resubmittal, enter the original report number.

## Primary Observer

### Certificate No. \*

### % Credit

### Email

### Initials

### Name

### Squadron

### District

## Additional Observers

	Certificate No.	Name	Squadron	District (Dnn)	% Credit
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Total % Credit must equal 100

page 1

Next

Enter the date of the observation. All items must be on the same date.

Leave the resubmittal field blank unless you are resubmitting a previous report.

Enter the primary observer's certificate number and click <Verify>. The other information will automatically populate. If you receive the message "Unknown Certificate No." you will have to register by following this link

<https://form.jotform.com/90205712120137>.

The primary observer will be the person contacted should there be any questions concerning the report.

List all other observers associated with the reported items, with a maximum of six observers per report.

Assign % credit to each observer, making sure the % credits add up to 100, using whole numbers. Do not enter % symbol.



## Co-Op Observer Registration

Complete the form below to register as a principal observer.

- ☐ Original Request  
☐ Update

Certificate No. \*

Name \*

Initials \*

Email \*

ex: myname@example.com

Squadron Name \*

- ☐ Power Squadron  
☐ Sail & Power Squadron

District \*

ex. D01

Submit

## Primary Observer Registration

Use this form to register for the first time or to update your information.

Link to form: <https://form.jotform.com/90205712120137>

You will receive an email once your request is completed.

## 1st PID

Enter PID \*

Type of Mark

- ☐ Geographic  
☐ Horizontal/Vertical

Enter the following information from the data sheet.

Date of last recovery

Condition at last recovery

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

Condition at this recovery

- ☐ Good  
☐ Not Recovered / Not Found  
☐ Poor / Disturbed / Mutilated / Requires Maintenance  
☐ Destroyed

Recovery Notes

Upload Photos

Upload a File

Page 2

☐ Jump to last page when clicking on Next

Back

Next

Enter the PID of the mark, two letters followed by four numbers, no spaces.

Select the Type of Mark.

Enter the Date of last recovery found on the datasheet.

Enter the Condition at last recovery found on the datasheet.

Select the Condition at this recovery. Select Not Recovered/Not Found unless there is physical evidence of a destroyed mark.

Enter in Recovery Notes any description that will help in finding mark or reason why a mark was not found.

Upload the photo(s). Keep the file size under 4MB.

Up to five (5) items can be reported in one report.

Click Next to enter another mark, click Back to review previous page or select “Jump to last...” and click Next to go to last page.

## Submit Report

**Note:**

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

Submit

Print Form

Page 7

Back

Before you submit the report you can:

Select the Back to review your work,

Select Print Form to print the report or save as a PDF.

**Print**

Total: **4 sheets of paper** (8 pages)

[Print](#) [Cancel](#)

Destination: HP ENVY 4520 series

[Change...](#)

Pages: ☒ All **Step 2**

☐ e.g. 1-5, 8, 11-13

Copies:

Layout:

Color:

Options: ☒ Two-sided

[+ More settings](#)

Select a destination

Showing destinations for

[thancock@neo.rr.com](#)

**Recent Destinations**

HP ENVY 4520 series

Save as PDF

Dell Laser Printer 1720 XL

**Print Destinations** [Manage...](#)

Save as PDF **Step 3**

HP ENVY 4520 series

Send To OneNote 2010

Send To OneNote 16

Microsoft XPS Document Writer

Microsoft Print to PDF

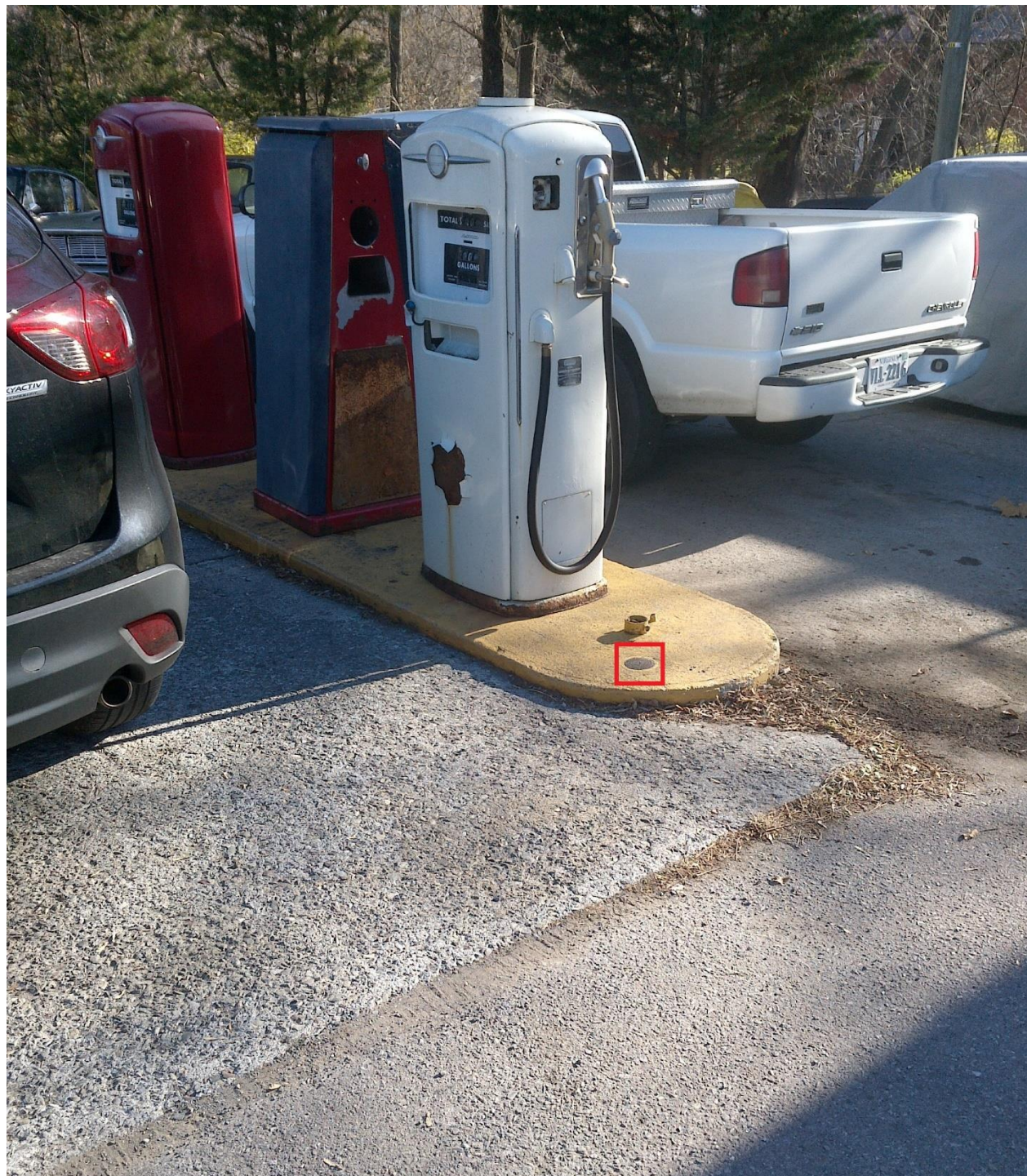
Fax

Dell Laser Printer 1720 XL

Save to Google Drive



Some unique Geodetic Marks:







A gun base at Fort Macon





USCS etched in sandstone





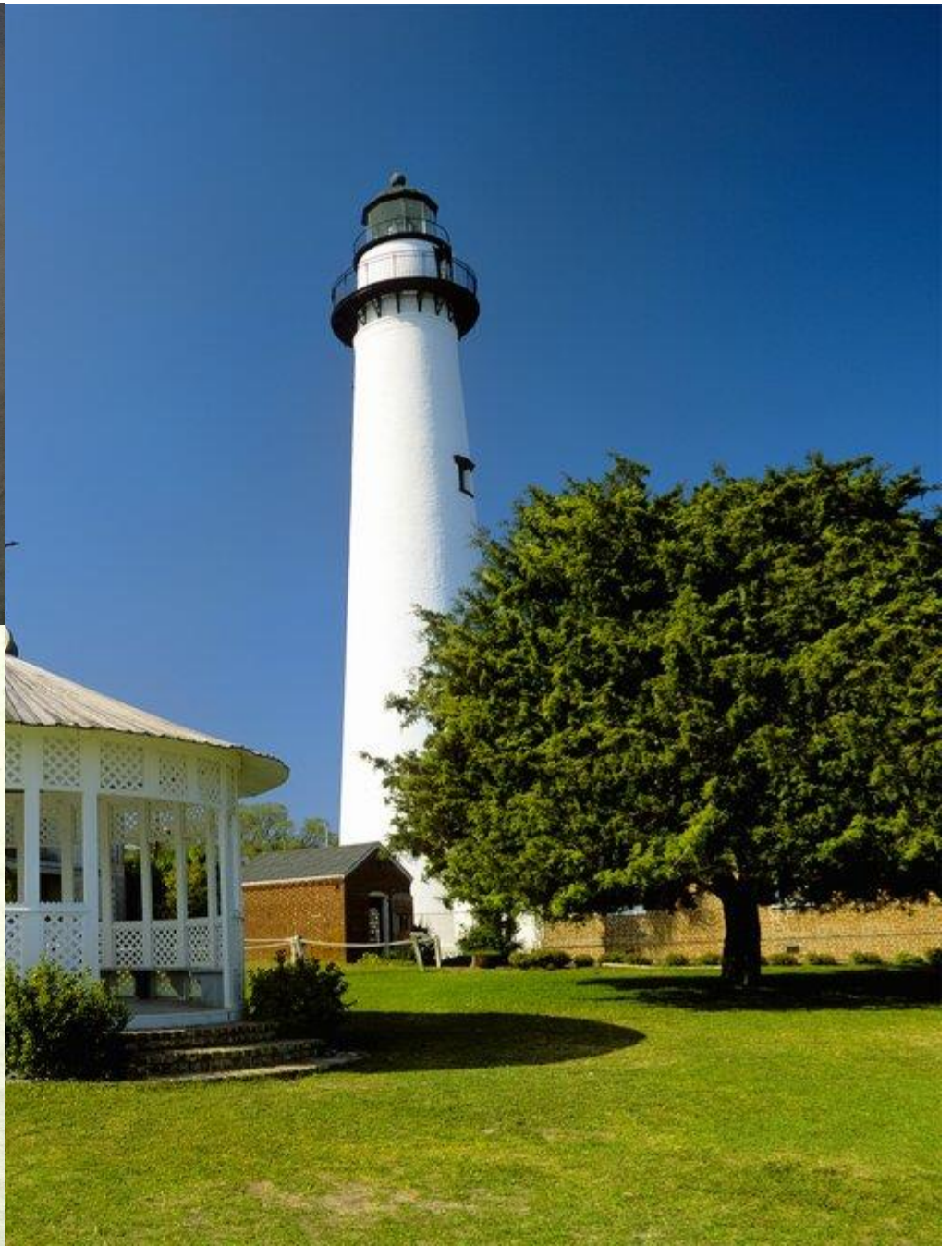
Sometimes you get a lot of help





Bring your dog to help find this one!





Geodetic marker recovery and Nautical ATON inspection for the price of one!



Extra Help!







Two for the price of one!



Thank You for attending.

Any questions, contact:

Tom & Joanne Hancock

D7, Stark County Power Squadron

[lilboy@neo.rr.com](mailto:lilboy@neo.rr.com)

330.499.3660



Cleveland Harbor Entrance Lighthouse