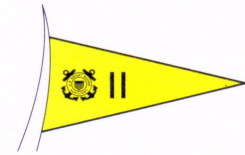


# UNITED STATES COAST GUARD AUXILIARY

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OFFICE OF THE  
DISTRICT STAFF OFFICER  
NAVIGATION SYSTEMS

TO: Bruce Martin, District Captain 11N  
Dean McFarren, COMO District 11N  
Curtis Han, District Chief of Staff 11N  
District 11 North Board & Staff

CC: ADSOs-NS  
AV-PQS  
Bill Wicks, DSO-NS 11S  
Ed Martin, Auxiliary National NS Captain  
Mike Salsman, PATON Administrator, D11

FROM: Michael Hay, DSO-NS 11N

DATE: June 2, 2022

## **Highlights:**

NS Program underway for 2022

- 786 PATONs to verify
- 50 bridges to survey
- NOAA Chart eliminations in AOR

Waterways Management (dpw):

- Continue Working multiple locations on Lake Tahoe for permit/buoy changes

National NS Work:

- BC-PNP hosting C-06 school in August 2022
- New 7054 approved and now available

## **Details:**

- Surveyed at least 26 of 50 bridges - 50% complete - Updated report to follow
  - Note: Bridge Surveys were due May 31, 2022
- Verified at least 66 of 786 PATONs – 8.4% complete – Updated report to follow

- NOAA charts in 11N AOR have been cancelled effective 01 June 22:
  - **18605**-TRINIDAD HARBOR
  - **18626**-ELK TO FORT BRAGG
  - **18628**-ALBION TO CASPAR
  - **18647**-DRAKES BAY
  - **18686**-PFEIFFER POINT TO CYPRESS POINT (CARMEL BAY)
- Waterways Management:
  - Initiated work on discrepancies for Lake Tahoe: Fleur Du Lac, Tahoe Keys and Tahoe Keys HOA.
  - Still waiting on Tahoe City to re-file permit. Permit and updating to occur upon receipt of new permit.
- National NS Branch:
  - Yorktown C-06 school had been officially cancelled due to not enough enrollees at the cutoff date.
  - Enrollments for C-06 Alameda/Oakland school progressing — three known and one potential District 11 enrollees at this point and six enrollees overall thus far – need 7 minimum for class to go – trying to re-direct potential enrollees in the Yorktown class to Alameda. Class is scheduled for August 12-14, 2022.
  - New drop down/fill in PDF for form 7054 now available from the Forms Where house.

**Reports:**

**NS Report by Division: This report to be updated**

DISTRICT 113 2022, BRIDGE, ATON, & CHART UPDATING SUMMARY TABLE											MAY 1 2022					
Div.	AIDS TO NAVIGATION				BRIDGES				Private Aids				Aid Verifiers			
	B	A	P	U	AOR	Check	%	NotCheck	AOR	Check	%	NotCheck	Trainee	PQS		
1	4	1	28		4	4	100%	0	105	28	27%	77	2	6		
3	21	1			15	15	100%	0	33		0%	33	0	4		
4					2		0%	2	68		0%	68	0	0		
5	5		6		11	5	45%	6	103	6	6%	97	0	6		
6	2		32		2	2	100%	0	69	32	46%	37	1	1		
8			4		1		0%	1	18		0%	18	0	1		
10					9		0%	9	55		0%	55	0	3		
11					0		NA	0	145		0%	145	0	3		
12					8		0%	8	194		0%	194	0	4		
<b>Total</b>	<b>32</b>	<b>2</b>	<b>70</b>	<b>0</b>	<b>52</b>	<b>26</b>	<b>50%</b>	<b>26</b>	<b>790</b>	<b>66</b>	<b>8%</b>	<b>724</b>	<b>3</b>	<b>28</b>		
Total Aids to Navigation					104				Number of members submitting an ATON or CU Reports				9			
Total Chart Updating 1/1/22 to 12/31/22					0				B=Bridge, A=ATON, P=PATON, U=Unauthorized							
Total ATON/CU Activity					104				C=Chart Update, CP=Coast Pilot Update, CCP=Charting Credit Points							
AUXDATA II 2022 Bridge & ATON Activity					1-May 2022		CHART UPDATING SUMMARY TABLE				MAY 1 2022		Type			
AUXDATA II 2022 Bridge & ATON Activity							Div.		113 Jan 1 to Dec 31, 2022		113 Jan 1 to Dec 31, 2023		Reports			
AIDS TO NAVIGATION					All NS Activitys		Reports		0		CUP		0			
BV					BD		AD		PV		PD					
1							1									
3							3									
4							4									
5							5									
6							6									
8							8									
10							10									
11							11									
12							12									
<b>Total</b>							<b>0</b>		<b>0</b>		<b>0</b>		<b>2022</b>			
Total Aids to Navigation					20		19%		Total		0		0		RC=26	

***Change in AV-PQS/Trainees Year over Year:***

**This is a significant loss in AV-PQS personnel due to retirements, COVID impacts, REYR impacts and home location movement of personnel.** There is also a healthy gain in prospective trainees in the pipeline. Three new AV-PQS trainees have signed up recently. And, one more has expressed significant interest.

	2021		2022	
Division	Trainee	AV-PQS	Trainee	AV-PQS
1	1	7	2	6
3	0	3	0	3
4	0	1	2	0
5	0	7	1	6
6	1	3	1	1
8	0	1	4	1
10	0	6	0	4
11	1	8	1	3
12	4	7	4	4
Totals	7	43	15	28
Results		Net Gain Trainees	8	
		Net Loss AV-PQS	-15	

### **Around the Horn (District 11N):**

- All 17 bridges have been completed in Div 3 - submitted by Jim Duncan
- Joint Fl 52/57 night PATON verification Patrol and a training patrol were held on the Audrey L.
- Due to the dissolution of Flotilla 57, two AV-PQS members have transferred from Flotilla 57 to 52.
- All Flotilla 57 bridges have been completed and PATONs on Napa river, Petaluma River, Suisun Straights and Mare Island Strait have been verified.
- Welcome Kevin Quinn as new Division 4 SO-NS and Michael Brown has been appointed as the FSO-NS for Flotilla 41 – Welcome to both of you.

### **DSO 11N Goals & Objectives:**

- **COMPLETED:** Distribute all electronic and paper PATON verification sheets to SO-NSs in both 11N and 11S by mid-February 2022
- **COMPLETED:** Distribute all electronic and paper Bridge survey sheets to SO-NSs in 11N by end of January 2022
- Complete 100% of District 11N bridge surveys by May 31, 2022
- Complete 100% of District 11N PATON verifications by September 30, 2022
- Calculate and nominate AV personnel for NS awards at the end of the year
- Improve count of AV personnel in district 11N

### **Waterways Management (dpw) PATON Administration Goals:**

- Stay current with all IATONIS changes approved during the year
- Input all PATON verification data into Access db and IATONIS on a timely basis
- Define and implement a feedback loop for Discrepant Aid follow-up
- Report updated progress monthly
- Eliminate roadblocks to institutionalizing new Access db for multi-user usage
- Support DSO-11S in enhancing their program
- Ensure currency of Class I and II PATON verifications for District 11

### **National Goals:**

- Host C-06 School in Alameda during August 2022
- Teach one session of C-06 School
- **COMPLETED:** Participate in drafting of program materials as needed
- Continue participation in CG Research department project to enhance Navigation Systems reporting requirements

### **Challenges/Obstacles/Opportunities:**

In recognition of COVID impacts, serious weather conditions impacting outside activities, retirement and loss of AV personnel, loss of facility support and restrictions on mode of travel to do verifications, it is understood that 100% completion is a stretch goal for 2022. Consequently, priorities have been established to complete surveys and verifications in the following order: Bridges, Class I, Class II and then Class III PATONs

**Photos:**

None

**Nav Notes:**

Reprinted from Pam C-K, BC-PNC article “Time to Get Familiar with Electronic Charts” Part II

Navigation Programs using ENC's

Most owners of boats over 20' have purchased either chartplotters, or nav apps for a laptop or mobile device to accommodate their navigation needs. The sale of most chartplotters comes with an Update Package option. Many of those updates are annual and a few are quarterly. Be sure that your chartplotter can be updated! Here are some details on Chartplotter users in a recent PE class: many had units using C-Map, other units had the maker's own nav app. The brands included Furuno, Garmin, Raymarine, Lowrance, Standard, B&G, etc. Some in the class used mobile devices with Navionics or other apps listed at the end of the next paragraph.

A few attendees used laptops with nav apps like Coastal Navigator and Nobeltech (Odyssey). Those apps (on laptops or mobile devices) more often have frequent updates available. Two apps – OpenCPN (free) and Coastal Navigator (\$) allow you to download NOAA's weekly updated files yourself. Nobeltech prompts you to update charts. Navionics provides automatic updates including a bi-monthly (1/2 months) NOAA update, plus really frequent inputs from the public (a feature inside Navionics, and accounts for many more entries).

There are numerous other Chartplotters and navigation apps out there. You need to investigate how often they have NOAA updates available. In fact, you are encouraged to use Navigation programs that can give you access to the weekly NOAA ENC updates (and then perform those updates to your nav unit!) Other nav apps seen: TZiBoat, iNavX, Argo, C-Map Embark, AquaMap, They should all be checked for their direct use of ENC data, the weekly NOAA updates and accessing the information not seen at the top level in NOAA's ENC Viewer (esp. maintained channel depths; vertical/horizontal datums).

The OpenCPN that I mention above (which allows you to download NOAA's weekly ENC files) has a lot of information that is not seen the surface layer, like mentioned earlier in the ENC Viewer. (See example above about “Object Query” and below for a Faux Pas). You will need to get familiar with accessing critical information like updated controlling depths in maintained channels!

**If your nav app only uses RNCs (Raster) it is inadequate!** Raster files are not being updated for depth changes, and ultimately are being retired! Hopefully if that's the case, your app will convert to ENC's – find out! An example of RNC-only: iSail

Outdated Paper (/RNC) Charts

With regards to using paper charts, of significant concern is that NOAA/OCS is only applying items they consider crucial to Raster files (being used by the Print-On-Demand vendors to publish paper charts. These include LNM entries to paper chart files, which include changes to

P/ATONs, and upcoming 'retirement' dates for RNC charts. That appears to be the principal entries! Shoaling in (maintained) channels are seldom being posted!

Recent example: For the 12-foot Project depth in the Swinomish Channel, the ENC shows 1.2 meters/4.1 feet (from Army CoE 2020 survey). The Print-on-Demand Chart shows a 2017 depth of 7 feet (significantly deeper!).