



U.S. Coast Guard Auxiliary

District 11 Northern Region

Serving Northern California, Nevada, Utah



District Navigation Systems

Covering Aids to Navigation, Bridges, & Chart Updating Activities

Accuracy - Credibility - Professionalism - Service to the Coast Guard & NOAA-NOS

DSO-NS Northern Region Report No. 2017-11

Date: December 4, 2017
 From: DSO-NS 11(NR)
 To: DCAPT- P & All D11 Auxiliary Members for Immediate Action
 Info: EXCOM, Board & Staff, SO-NS, FSO-NS & Aid Verifiers, D11 (dpw) & D11 (dpa-n)
 Subject: DSO-NS July Report/Bulletin

SO-NS please contact each FSO-NS to see that they receive a copy of this bulletin.

Additional copies can be downloaded at:

<http://www.uscgaux.info/content.php?unit=113&category=navigation-systems-1>

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2. PAST COMMANDERS ASSOCIATION TRAINING FAIR: I will be conducting **Auxiliary Aids to Navigation (ATON) Verifier PQS Training Course** and **Chart Updating ICS Course** at the Past Commanders Training Fair on January 13 & 14, 2018. If you have not signed up yet, you can get the “Past Commanders Association Training Fair flyer” on the District web site at: <http://wow.uscgaux.info/content.php?unit=113> and click on “Event Calendar” at PCA on Jan 13th.

(1) Chart Updating CSI & NOAA’s Nautical Discrepancy Report System: Again any Auxiliary member can do chart updating. This class will be held on Saturday, January 13, 2018. This course is for any Auxiliary Member who would like to learn all about Chart, & Coast Pilot Updating. How to submit your chart updated or Coast Pilot reports through the NOAA Office of Coast Survey - **NOAA’s Nautical Discrepancy Report System** to assist the NOAA-National Ocean Service, NOAA Coast Survey and the U. S. Coast Guard in keeping our charts and waterways information correct. The focus for the Auxiliary Chart Updating program is on **prevention, accuracy, credibility,** and **professionalism,** and is directed toward raising your competence in the eyes of NOAA-NOS. There are specific guidelines for taking fixes and depths that require pre-underway validation of all equipment that is used to perform measurements, and for reporting quality control evidence for each on-scene observation and instrument reading. Also required are explanations of the technique(s) used to acquire any reported data. Observers are directed to define each chart update task, list their on-scene observations, develop a conclusion from the collected evidence and make a final recommendation to NOS. **Again any Auxiliary member can do chart updating.** Any Auxiliary Member who would like to update or improve their charting skills can also sign up. You can also find out about downloading excellent Chart Updating information, guides, training power points, all the new excel field reporting forms and worksheets and the WebEx Training Topics Schedule from the best two District Navigation Systems web sites in the auxiliary.

1) D11NR Navigation Systems web site

<http://wow.uscgaux.info/content.php?unit=113&category=navigation-systems>

2) D1NR Navigation Systems web site <http://www.uscgaan.com>

These two web sites can just about answer any and all of your questions about chart updating. Take a good look at both by navigating through these two excellent web sites.

(2). Auxiliary Aids to Navigation (ATON) Verifier PQS Training Course: On Sunday January 15, 2017. This course is for those members who would like to become an Auxiliary Aids to Navigation (ATON) Verifier and assist the Coast Guard with their Aids to Navigation & Bridges. We are in great need of trained Aid Verifier-PQS members. As of January 1, 2017 all Aid Verifiers must be National AV-PQS certified. Any pass or present District Aid Verifiers who would like to update to the AV-PQS qualification or update their skills are also welcome.

The training Prerequisites to completing the course: 1) A BQ or AX member, 2) A current or past Aid Verifier, 3) Completion of the 4 or 8 hour TCT, 4) Completing ICS 100 and ICS 700 and 5) You are required to have a copy of the **Auxiliary Aids to Navigation (ATON) Verifier PQS sign off booklet,** 6) The sign off booklet and training material can be downloaded from the **National Navigation Systems web site:** <http://wow.uscgaux.info/content.php?unit=P-DEPT&category=navigation-systems>

Please download a copy of the “Auxiliary Aids to Navigation (ATON) Verifier” PQS sign off Booklet. Use this booklet as your study guide while attending the AV training course. Just sign up.

3. 2017 NAVIGATION SYSTEMS ACTIVITY REPORT:

This summary report activity table covers all ATON, PATON, Bridge, & Chart Updating activities & reports received by D11 (dpw), NOAA-NOS & AUXINFO through **December 3, 2017**.

2017 DIVISIONAL, BRIDGE, ATON, & CHART UPDATING ACTIVITY SUMMARY REPORT

Div.	AIDS TO NAVIGATION ACTIVITY							Bridges Assigned				PATON's Assigned				2017 AVPO in Train- ing	A V - P Q S	
	Bridge	Bridge AUX Data Lead only	ATON	ATON AUX DATA Lead only	PATON	PATON NO Permit	PATON AUX DATA Lead only	AOR	Check	% Done	Still to Do	AOR	Check	% Done	Still to Do			
1	4	4	2	5	105	2	32	4	4	100%	0	104	104	100%	0	3	9	
3	19	12	5	2	41	10	26	15	15	100%	0	41	41	100%	0	0	4	
4	2	2			68		66	2	2	100%	0	68	68	100%	0	1	2	
5	12	9	1	10	108		111	11	11	100%	0	104	104	100%	0	1	4	
6	2	2	1	1	66	4	47	2	2	100%	0	66	66	100%	0	0	2	
8	1	1		9	6		1	1	1	100%	0	5	5	100%	0	1	0	
10	10	1	1	2	58		79	9	9	100%	0	58	58	100%	0	1	5	
11			1		139	29	128	0	0	100%	0	139	139	100%	0	0	3	
12	8	8			155	18	133	8	8	100%	0	149	149	100%	0	2	6	
Total	58	39	11	29	746	63	691	52	52	100%	0	733	733	100%	0	9	35	
	2017 D11NR Chart Updating Year Jan 1, 2017 to Mar 31, 2017						2017 D11NR Chart Updating Year April 1, 2017 to Dec 31, 2017						2017-2018 NOAA-NOS Chart Updating Year Apr 1, 2017 to Mar 31, 2018					
Div.	CU Reports		2nd Ob		CUC (26)		CU Reports		2nd Ob		CUC (26)		CU Reports		2nd Ob		CUC (26)	
1																		
3	6				156		6		0		156		6					
4																		
5																		
6																		
8																		
10																		
11																		
12																		
Total	6		0		156		6		0		156		6					
Total D11 CU Reports 1/1/17 through 12/31/17 →							6	Total D11-NOAA CU & CUC 4/1/17 through 3/31/18 →							6	0		
Total Aids to Navigation Reports							878	Total Members Submitting ATON & CU Reports in 2017 →							34			
Total Aids to Navigation in AUXDATA*							691	691 out of 878 ATON reports showing up in AUXDATA →							79%			
Total NOAA Chart Updating Reports							6	A= ATON, P= PATON, B= Bridges, U= Unauthorized, CU=Chart Updates CUC = Chart Update Points (Stop Gap) = 26 CUP awarded by D11NR DSO-NS for each confirmation of a Report you recently submitted via NOAA's Nautical Discrepancy Report System.										
Total ATON & Chart Updating							884											
<p>➤ Note: *Red numbers above is the information from AUXINFO as of December 3, 2017 update.</p> <p>➤ NOAA-NOS Chart Updating Year is from - April 1 through March 31 each year????</p> <p>➤ D11NR Chart Updating Year is from - January 1 through December 31 each year.</p> <p>➤ Note: The Green number under "2nd Ob" indicates secondary Chart Updating Observers.</p>																		
<p>✓ Note: "ALWAYS submit a 7030 for all ATON, PATON, Bridge, & Chart Updating Activity. Your work is not completed until your 7030 is in your FSO-IS hands."</p> <p>✓ "Always check AUXINFO for your ATON, Bridge, & Chart Updating activity. If you don't find your activity recorded and you have submitted the proper ANSC 7030, check with your FSO-IS or SO-IS for help." If you are not satisfied always contact the DSO-NS for help.</p>																		

4. 2017 NAVIGATION SYSTEMS AUXINFO REPORT AS OF December 3th

Check below to see if your activity is in AUXDATA? IF Not, Why Not? Did you submit a 7030?

Cube last refreshed on Sunday, December 3, 2017								
ATON –Aids to Navigation (30, 31, 32)	11NR – Eleventh Northern	All Facilities	All Unit Locations	All Activities	CY 2017	All Statuses	LEAD ONLY	All Operations
		BRIDGE – Bridge Administration (32)		FEDERAL – (30) Aton/chart updating		PRIVATE-Private-Aids to Navigation (31)		
		ATON Bridge Verified	ATON Bridge Discrepancies Reported	ATON Aids Verified	ATON Aid Discrepancies Reported	ATON Aids Verified	ATON Aid Discrepancies Reported	
113-01-07 POINT BONITA	FRY, SUE K	0	0	5	0	0	0	
	113-01-07 POINT BONITA	0	0	5	0	0	0	
113-01-09 COYOTE POINT	BLANCHARD, TERRY M	0	0	0	0	11	3	
	SWETT, DAN S	0	4	0	0	10	0	
	VETTER, LINDA L	0	0	0	0	5	3	
	113-01-09 COYOTE POINT	0	4	0	0	26	6	
11NR – Div. 01		0	4	5	0	26	6	
113-03-03 GOLD COUNTRY	HOLTZMAN, TOMMY W	0	0	0	0	7	1	
	113-03-03 GOLD COUNTRY	0	0	0	0	7	1	
113-03-05 SACRAMENTO	DUNCAN, JAMES B	0	10	0	1	4	4	
	MACPHERSON, DOUGLAS W	0	2	0	1	2	8	
	113-03-05 SACRAMENTO	0	12	0	2	6	12	
11NR – Div. 03		0	12	0	2	13	13	
113-04-06 REDWOOD CITY	WHITEHEAD, ROBERT R	2	0	0	0	40	26	
	113-04-06 REDWOOD CITY	2	0	0	0	40	26	
11NR – Div. 04		2	0	0	0	40	26	
113-05-03 NORTH SOLANO COUNTY	HUNT, GORDON E	2	0	0	0	20	29	
	113-05-03 NORTH SOLANO COUNTY	2	0	1	1	20	29	
113-05-05 SONOMA COUNTY	KUBO, LARRY Y	0	0	0	0	6	1	
	SUMNER II, WILFRED A	4	2	9	1	17	7	
	113-05-05 SONOMA COUNTY	4	2	9	1	23	8	
113-05-07 DIABLO	HAY, MICHAEL D	1	0	0	0	24	7	
	113-05-07 DIABLO	1	0	0	0	24	7	
11NR – Div. 05		7	2	9	1	67	44	
113-06-10 CAPITOLA FLOTILLA	SIMPSON, BRUCE	0	2	0	0	30	13	
	SMITH JR, WALLACE A	0	0	1	0	0	4	
	113-06-10 CAPITOLA FLOTILLA	0	2	1	0	30	17	
11NR – Div. 06		0	2	1	0	30	17	
113-08-11 CRESCENT CITY FLOTILLA	STEWART, GREGORY M	0	1	9	0	1	0	
	113-08-11 CRESCENT CITY FLOTILLA	0	1	9	0	1	0	
11NR – Div. 08		0	1	9	0	1	0	
113-10-06 KAWEAH	MYERS, RICHARD S	0	0	0	0	39	40	
	ROLLINS, RODERICK M	1	0	2	0	0	0	
	113-10-06 KAWEAH	1	0	2	0	39	40	
11NR – Div. 10		1	0	2	0	39	40	
113-11-01 NORTH LAKE TAHOE	THEE, BRUCE W	0	0	0	0	27	45	
	113-11-01 NORTH LAKE TAHOE	0	0	0	0	27	45	
113-11-03 RENO	BOYNE, KATHARINE R	0	0	0	0	7	6	
	HAYNES, LINDA R	0	0	0	0	23	20	
	113-11-03 RENO	0	0	0	0	30	26	
11NR – Div. 11		0	0	0	0	57	71	
113-12-01 EAST BAY	SCHIMMELMAN, NANCY R	0	0	0	0	11	14	
	SWIFT, FRANK R	0	0	0	0	2	15	
	113-12-01 EAST BAY	0	0	0	0	13	29	
113-12-91 SAN RAMON VALLEY	BOGERT, JOHN M	2	0	0	0	0	2	
	BUSCH, STEPHEN C	0	0	0	0	11	2	
	DOUGLAS, STANLEY C	6	0	0	0	0	0	
	LUCHETTI, VIRGINIA	0	0	0	0	41	35	
	113-12-91 SAN RAMON VALLEY	8	0	0	0	52	39	
11NR – Div. 12		8	0	0	0	65	68	
DISTRICT 113 TOTALS		22	17	26	3	338	285	

5. UNDERSTANDING NOAA CHART SYMBOLOGY ON CHARTS

Tips from the Editor (USChart1@noaa.gov) of U.S. Chart No. 1:

Virtual AIS Aids to Navigation

June 2016

What is AIS?

The Automatic Identification System (AIS) enables ships to see and identify other nearby vessel traffic. In the same way that aircraft broadcast information about themselves to air traffic controllers, ships with dedicated VHF AIS transceivers can transmit and receive ship information, such as the ship size, draft, position, speed, direction, cargo, destination and other information. Ships equipped with an AIS-enabled display can see the positions of other ships up to 20 nautical miles away, even if they are behind islands or other obstructions that may block radar. More information about AIS is at www.navcen.uscg.gov/?pageName=AISmain.

How is AIS used on aids to navigation?

AIS transmitters can also be affixed to a floating or fixed aid to navigation (AtoN), such as a buoy, beacon, or light. The AIS transmission provides the position and purpose of an aid, such as a port or starboard lateral buoy, even before it is close enough to be visible from the ship or to provide a radar return. This can help mariners confirm their ship's position or to prepare to make a turn that is based on passing a particular aid. AIS AtoNs are shown on NOAA charts with a magenta radio circle and an "AIS" label, as shown in the table below.

What is a virtual AIS aid to navigation?

A virtual AIS AtoN is a signal broadcast from an onshore AIS station to display at a particular location on AIS-enabled Radar, Electronic Chart Display and Information System (ECDIS), or Electronic Charting System (ECS) displays, but for which no physical AtoN at that position exists.

A few uses of virtual AtoNs include environments where buoys are moved seasonally, such as in sea ice, or where a marker needs to be placed quickly, such as to mark a new isolated danger or wreck. NOAA charts depict virtual AIS AtoNs with a magenta radio circle and a "V-AIS" label, as shown in the table below. The purpose of the aid is indicated by the "top mark" above the central position circle. A complete list of all virtual AIS AtoN types and the symbols used to depict them on paper charts and ECDIS is available at http://www.nauticalcharts.noaa.gov/mcd/updates/ais_aton.html.

Paper Chart Symbol *			Type	What they look like out the window of a ship's bridge.
Green Lateral Buoy	Red Lateral Buoy	Safe Water Mark		
			Physical non-AIS aid	
			Physical AIS aid	
			Virtual AIS aid	

* These examples are based on the IALA-B buoyage system that is used in the 50 states and the Caribbean. In the IALA-A system, used in U.S. territories in the South Pacific, the square and triangle top marks shown on V-AIS aids are switched with each other. Refer to the graphic at Q-130.1 in [U.S. Chart No. 1](#) for more information about IALA buoyage regions.



* U.S. Chart No. 1 is actually not a chart, but a book that describes the symbols used on all nautical charts produced by the National Oceanic and Atmospheric Administration (NOAA) and the National Geospatial-Intelligence Agency (NGA). A free copy may be downloaded at <http://www.nauticalcharts.noaa.gov/mcd/chartno1.htm>

James B. Duncan, DSO-NS 11(NR)

DATES OF CHART LATEST EDITION TABLE
In D11 Northern Region December 4, 2017

Chart No.	Chart Scale	Edition No.	Traditional Paper Chart Edition Date	Last Correction Date from LNM Update from NOAA On-Line-Viewer & RNC & ENC Navigational Charts	
18600	196,948	15	Mar 2011	LNM 47/17	11/21/2017
18020	1,444,000	39	Jan 2012	LNM 47/17	11/21/2017
18010	811,980	22	Sep, 2012	LNM 47/17	11/21/2017
18022	868,003	36	Jun 2012	LNM 47/17	11/21/2017
18601	40,000	14	Feb 2007	LNM 47/17	11/21/2017
18602	40,000	13	Feb 2012	LNM 47/17	11/21/2017
18603	40,000	17	Mar 2012	LNM 47/17	11/21/2017
18605	15,000	13	Dec 2010	LNM 47/17	11/21/2017
18620	200,000	24	Feb 2012	LNM 47/17	11/21/2017
18622	25,000	56	APR 2016	LNM 47/17	11/21/2017
18623	40,000	12	Jan 2012	LNM 47/17	11/21/2017
18626	40,000	16	Dec 2012	LNM 47/17	11/21/2017
18628	10,000	9	Oct 2012	LNM 47/17	11/21/2017
18640	207,840	27	Oct 2015	LNM 47/17	11/21/2017
18643	30,000	18	Dec 2009	LNM 47/17	11/21/2017
18645	100,000	28	May 2013	LNM 47/17	11/21/2017
18647	40,000	16	Mar 2009	LNM 47/17	11/21/2017
18649	40,000	68	Jun 2013	LNM 47/17	11/21/2017
18650	20,000	58	Jan 2017	LNM 47/17	11/21/2017
18651	40,000	45	Dec 2013	LNM 47/17	11/21/2017
18652 SC	40,000-80,000	36	CANCELLED	LNM 47/17	11/21/2017
18653	20,000	12	Oct 2012	LNM 47/17	11/21/2017
18654	40,000	45	Jan 2012	LNM 47/17	11/21/2017
18655	10,000	59	Oct 2006	LNM 47/17	11/21/2017
18656	40,000	56	Aug 2010	LNM 47/17	11/21/2017
18657	10,000	19	Nov 2005	LNM 47/17	11/21/2017
18658	10,000	31	Sep 2007	LNM 47/17	11/21/2017
18659	10,000	16	Jan 2012	LNM 47/17	11/21/2017
18660	20,000	3	Sep 2005	LNM 47/17	11/21/2017
18661 SC	40,000	30	Mar 2009	LNM 47/17	11/21/2017
18662 SC	40,000	22	May 2009	LNM 47/17	11/21/2017
18663	20,000	6	Apr 2006	LNM 47/17	11/21/2017
18664	20,000	12	Aug 26, 2000	LNM 47/17	11/21/2017
18665	40,000	11	Aug 2004	LNM 47/17	11/21/2017
18666	10,000	1	Nov 24, 2001	LNM 47/17	11/21/2017
18667	20,000	12	Aug 26, 2000	LNM 47/17	11/21/2017
18680	210,668	32	May 2013	LNM 47/17	11/21/2017
18682	20,000	15	APR 2016	LNM 47/17	11/21/2017
18685	50,000	34	Sep 2012	LNM 47/17	11/21/2017
18686	40,000	13	Jul 17, 1999	LNM 47/17	11/21/2017
18700	216,116	22	Jul 2003	LNM 47/17	11/21/2017
Coast Pilot	Volume 7	49	2017 New Edition	Last Corrected through 11/26/2017	
D11 CG Light List Weekly Updates	Volume 6	2017	Updated weekly	Last Corrected though LNM 48/17 – Dated 11/29/2017	

"All auxiliary vessels when underway should be checking all [Aids to Navigations](#) for any type of [Discrepancy](#) and also should be checking the [Charts, Coast Pilot & Shoreline](#) for any type of [Charting Errors](#) as well as providing update reports on [Charts, & Coast Pilot](#) in your AOR"