

MSI Self Assessment – NAVAREA IV and XII

Submitted by: United States

SUMMARY

Executive Summary: Synopsis of activities within NAVAREA IV and XII since WWNWS4

Action to be taken: Note report

Related documents: None

1. Background:

Limits of NAVAREA IV: From the east coast boundary of Suriname to 07-00N out to 035-00W, from there to 067-00N and the coastline of Greenland, following 067-00N to the coastline of Canada (Baffin Islands area).

Limits of NAVAREA XII: from the coast line at 03-24S to 120-00W, then to 00-00, then to 180-00, then to 50-00N, and then following the International Date Line to 67-00N.

Schedule of broadcasts for Navigational Warnings/Meteorological Information (see figure 1)

Operational Points of Contact for National Co-ordinators within the NAVAREA

COUNTRY	NAME	TELEPHONE	FACSIMILE	EMAIL
United States	Coast Guard District 1	617 223 8555	617 223 8117	d01-smb-d1cmdcenter@uscg.mil
United States	Coast Guard District 5	757 398 6231	757 398 6392	d05-smb-d5cg@uscg.mil
United States	Coast Guard District 7	305 415 6800	305 415 6809	d07-smb-cmdcenter@uscg.mil
United States	Coast Guard District 8	504 589 6225	504 589 2148	d08-comandcenter@uscg.mil
United States	Coast Guard District 11	510 437 3701	510 437 3017	rccalameda@uscg.mil
United States	Coast Guard	206 220 7001	206 220 7009	D13cc@uscg.mil

States	District 13			
United States	Coast Guard District 14	808 535 3333	808 535 3338	jrcchonolulu@uscg.mil
United States	Coast Guard District 17	907 463 2000	907 463 2023	jrccjuneau@uscg.mil
United States	International Ice Patrol	877-423-7287	860-271-2773	iipcomms@uscg.mil
Antigua	James Lee	268-462-2494	268-462-2510 / 460-6024	Generaljay28@yahoo.com
Canada	MCTS Iqaluit	867-979-5269	867-979-4264	
Canada	JRCC Halifax	902-427-8200	902-427-2114	
Canada	MCTS Prescott	613-925-4471	613-925-4519	
Colombia	Alex Ferrero	6694104 / 6695291 ext.5108		AFerrero@dimar.mil.co
Costa Rica	Diego Leal Obando	(506) 2233-5022	(506) 2223-2697	dlealoba@mopt.go.cr
Curacao				
Dominica	Fitzroy Pascal	1 767 449 2185	1 767 449 2020	Metoffice@cwdom.dm
El Salvador	José Navarrete López	(503) 2530-2228	(503) 2530-2228	jnavarrete@amp.gob.sv
French Antilles	Adjoint Mer Antilles (C)	596 (0)5 96 39 50 59, 596 (0)6 96 28 40 82	596 (0)5 96 39 51 65	opsmer.faa@wanadoo.fr
French Guiana	Adjoint Mer Guyane (A)	594 (0)5 94 39 56 69	594 (0)5 94 39 55 85	Nauticinfo.guyane@dirisi-cayenne.fr
Greenland	Assiaat Radio	299-130-0	299-892-777	oyr@telepost.gl
Greenland	Island Commander	299-691-911		glk-vhku@mil.dk, grnavtex@greenet.gl
Grenada	Sean Salhab	(473) 440-7678	1 868 7306454	grenport@spiceisle.com
Guatemala	Alejandro Raxon Herrera	(502) 233-44775	(502) 233-44775	hidrografia@dgam.gob.gt
Guyana	Troy Clark	(592) 226 0860		troy-evan@hotmail.com
Honduras	Javier Diaz	5 042 665 6661		Javierd_hn@yahoo.com
Jamaica	Leighton Miller	(876) 967-1060	(876) 796-4667	LMILLER@JAMAICASHIPS.COM
Martinique	MRCC Fort de France	59 659 670 9292	59-659-6735730	Fortdefrance.mrcc@developpement-durable.gouv.fr

Mexico	Cap. Corb. Beltran Hernandez	52 55 56246500	52 5556246500	depto.ayudas.nav@gmail.com
Mexico				
Panama	Suzineia Barahona Vincensi	(507) 501-5146	(507) 501- 5140	sbarahona@amp.gob.pa
Puerto Rico	Coast Guard San Juan	7872892041	787-729-6706	SSJCC@USCG.MIL
St Kitts	Ludel Harvey	1-869-465- 5451	1-869-466- 7256	harveylharvey@yahoo.com
St Vincent	Jillianjoy Davis	1-784-456- 1378	1-784-451- 2245	svgmarad@gmail.com
Trinidad	Mark Fisher	1-868-625- 3804 (Ext 409)	1-868-624- 5884	msdmowt@yahoo.com
West Indies				Solmsd2@yahoo.com

2. Comments:

GMDSS Master Plan updates – no change.

	2011	2012	2013
NAVAREA IV	437	761	716*
NAVAREA XII	461	341	294*

*Through August 28, 2013

3. Coastal Warnings

a. NAVAREA IV

i. NAVTEX Coverage:

1. United States

- a. Boston, Massachusetts [F] – Remote controlled from Portsmouth
- b. Chesapeake (Portsmouth), Virginia [N]
- c. Charleston, South Carolina [E] – Remote controlled from Portsmouth
- d. Miami, Florida [A] – Remote controlled from Portsmouth
- e. New Orleans, Louisiana [G] – Remote controlled from Portsmouth
- f. San Juan, Puerto Rico [R] – Remote controlled from Portsmouth

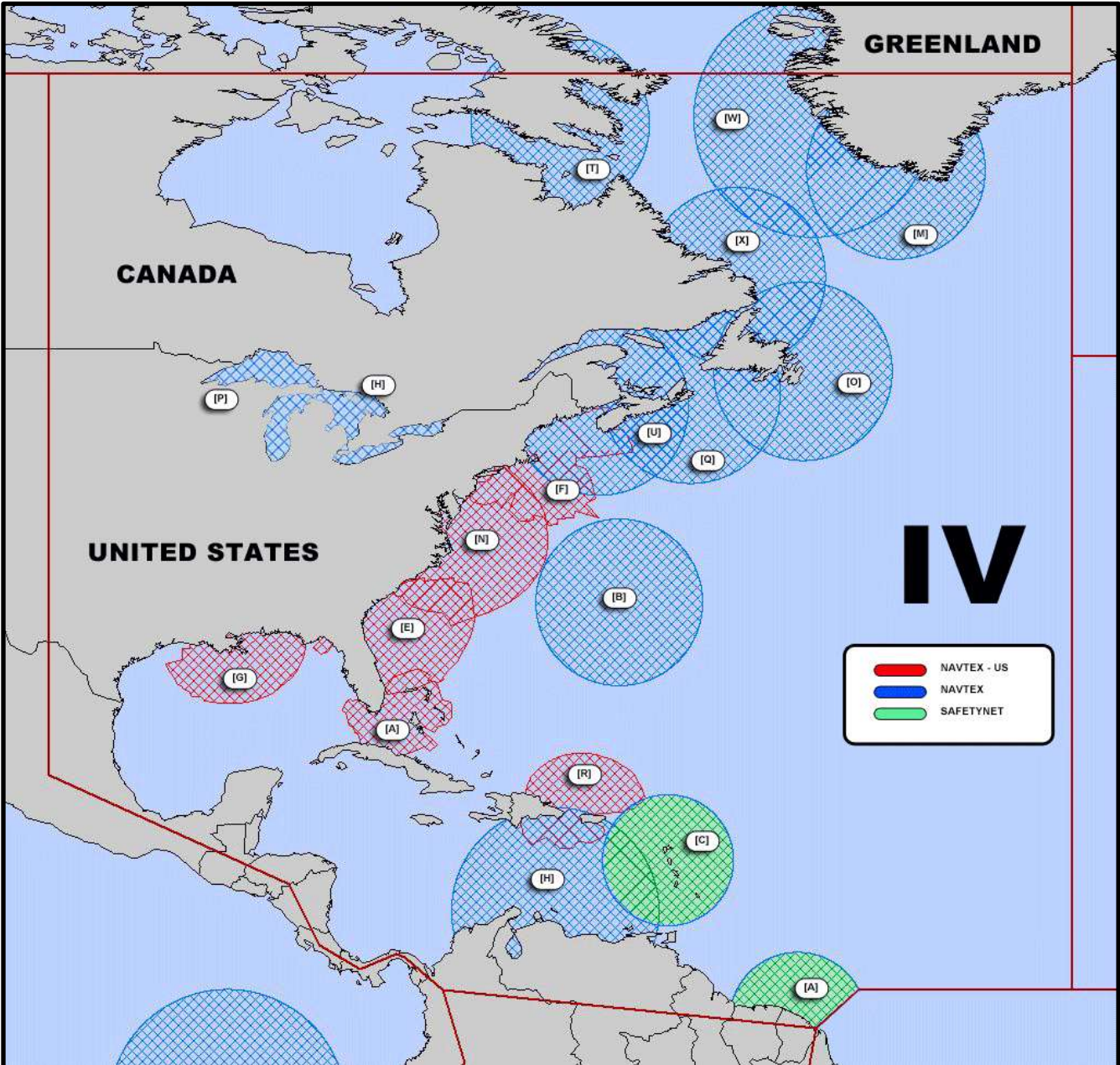
2. Canada

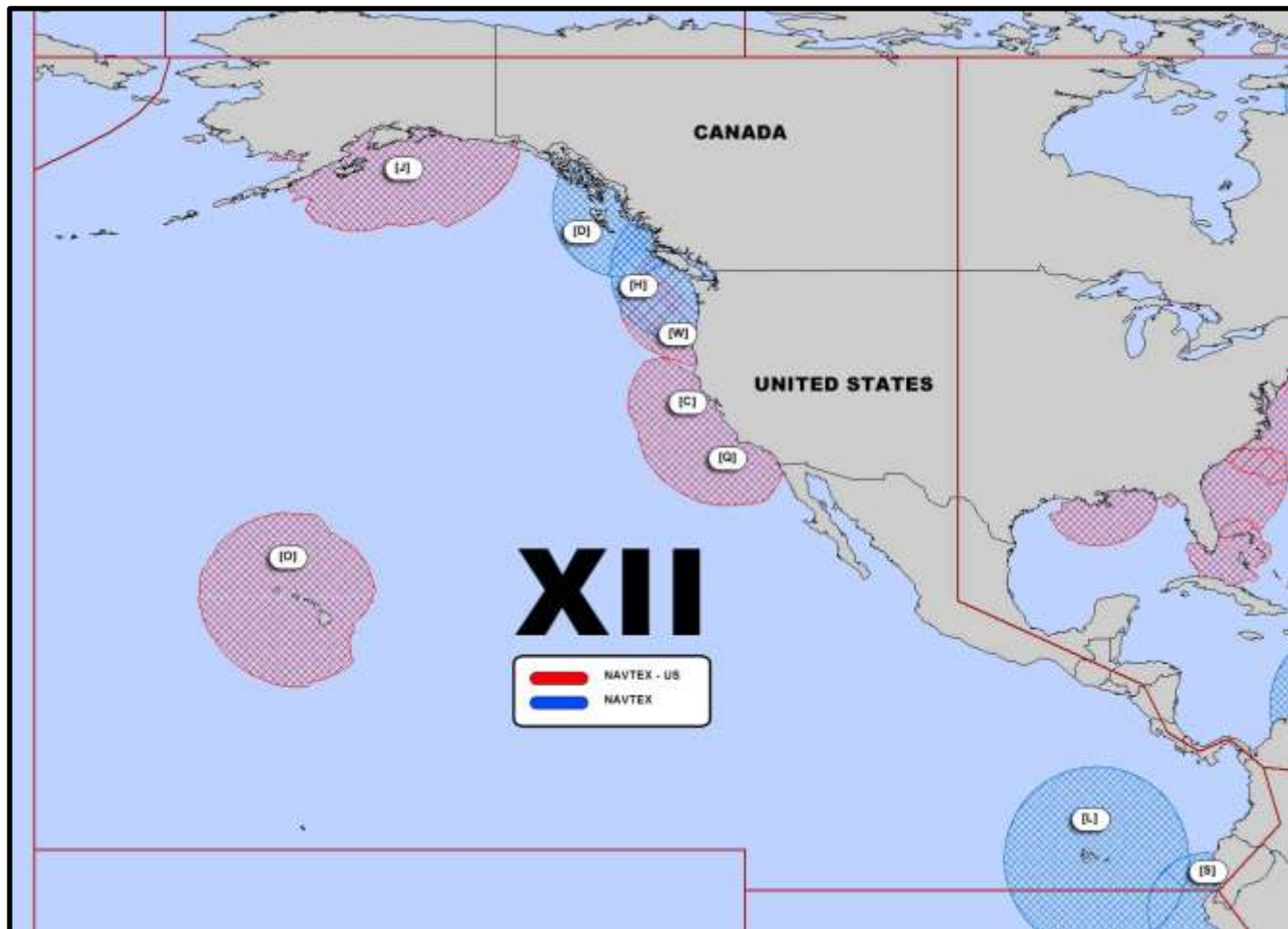
- a. Iqaluit [T]
- b. Labrador [X]

- c. Saint John's [O]
 - d. Sept-Isles [C]
 - e. Sydney [Q]
 - f. Yarmouth [U]—Remote controlled from Saint John's
 - 3. Greenland (Denmark)
 - a. Kook Island (Nuuk) [W]
 - b. Simiutaq [M]
 - 4. Great Lakes Region
 - a. Wiarton [H] – Remote controlled from Prescott
 - b. Thunder Bay [P]
 - 5. Bermuda (United Kingdom)
 - a. Bermuda [B]
 - 6. Mexico
 - a. **Vera Cruz (Planned)**
 - b. **Cozumel (Planned)**
 - 7. Curaçao (Netherlands)
 - a. Curaçao [H]
 - ii. SafetyNet
 - 1. French West Indies [C]
 - 2. French Guiana [A]
- b. NAVAREA XII
 - i. NAVTEX Coverage
 - 1. United States
 - a. Kodiak, Alaska [J]
 - b. Astoria, Washington [W]
 - c. Point Reyes, California [C]
 - d. Cambria, California [Q]
 - e. Honolulu, Hawaii [O]
 - f. Guam [V]
 - 2. Canada
 - a. Prince Rupert [D]
 - b. Tofino [H]
 - 3. Ecuador
 - a. Ayora [L] (Reported out of service in Ecuador Notice to Mariners 2/2011)
 - 4. Peru
 - a. Paita [S]

There are 18 Coastal Warning stations within NAVAREA IV, 16 NAV NAVTEX stations and two SafetyNet stations. Mexico plans (since 1999) to install NAVTEX stations at Cozumel and Vera Cruz. Attempts to contact Mexico for a status update were unsuccessful. NAVAREA IV will continue to pursue alternative means to determine when these stations will become operational.

There are 10 Coastal Warning stations within NAVAREA XII, all NAVTEX stations. NAVTEX Station Ayora [L] in Ecuador remains out of service to the best of NAVAREA XII's knowledge. NAVAREA XII made several attempts to contact Ecuador to verify its operational status, which were unsuccessful.





4. Operational Issues:

On February 6, 2013 NAVAREA IV's AOR-E EasyMail software, version 1.15, failed. Initial email correspondence with Thrane and Thrane yielded no solution. Correspondence with NAVAREA 1 revealed they had the same problem, which was alarming. The initial solution was to revert to EasyMail software version 1.13. NAVAREA IV implemented that on February 8, and NAVAREA IV owes a very large thank you to NAVAREA I for providing this version of the software. EasyMail 1.13 was a passable, yet unstable solution, and by no means a permanent one. Finally, on February 18, via email from NAVAREA I, Thrane and Thrane stated that LES 120 was the root cause of the software failure. Its EGC count exceeded what the software was capable of handling causing the software to crash directly upon initialization. To NAVAREA IV's knowledge, Thrane and Thrane never made this information publically available to its customers. The WNWNS-SC Chairman, at the recommendation of NAVAREA I and IV, issued an email polling all NAVAREA Coordinators to determine if the problem was more widespread. NAVAREA II responded that its equipment, made by Furuno, experienced no such failure. No other NAVAREA Coordinators reported similar problems. NAVAREA IV continued to use version 1.13 until the end of February when it noticed that

LES 120 reset its EGC count. NAVAREA IV reverted to EasyMail 1.15 and no longer received a run-time error. Other LES's had EGC counts that were higher and did not cause a run-time error, which was puzzling. What is more concerning, however, is how many mobile users might have been affected.

5. Quality Management Survey

NAVAREA	ISO 9001 - 2000	Promulgate "In-Force" Bulletins	Promulgate "No-Warning" Messages	Monitor Broadcast in almost real time	24/7 contact information provided	Promulgate two scheduled broadcasts	IMO Master Plan updated
IV and XII	YES	YES	YES	YES	YES	YES	YES

6. Contingency Planning:

NAVAREA IV and XII have fully redundant along with site separated NAVAREA operational systems to include: satellite transceivers, telecommunications, internet and desktop PC's. Operations are tested on a daily basis at both locations to ensure full continuity of NAVAREA operations.

7. Capacity Building:

The IHO WWNWS-SC continues to provide training and practical guidance for those who are concerned with drafting navigational warnings or with the issuance of Maritime Safety Information (MSI) for the high seas. To date, there have been nine training courses provided since its initial offering in 2007. The WWNWS-SC facilitated its most recent course in Claxton Bay, Trinidad in May 2013, supporting the Meso American and Caribbean Sea (MACHC) Hydrographic Commission. The training effort intends to translate into safer navigation for the region and establish an active regional coordination team of experts who will continue to collaborate with the respective NAVAREA Coordinator in the area of influence. These courses are organized through the leadership and instructor support of NAVAREAs I, IV and XII with additional instructor support provided by the NAVAREA Coordinator(s) within the Regional Hydrographic Commission.

An example of the direct benefits of capacity building from Trinidad:

At the end of the first day, 20 May, Mr. Troy Clarke, Senior Hydrographic Surveyor for Guyana, approached both instructors concerning Georgetown Lighthouse, a major aid to navigation in Georgetown, Guyana. He stated that new hotel construction partially obscured it from ships approaching from the south. Further investigation and discussion continued in the early evening the following day. Over the span of 15 minutes, Mr. Janus contacted the NAVAREA IV operations room, passed information to the watch keeper, the watch keeper completed analysis and then issued a NAVAREA IV warning stating that Georgetown light

was unreliable. Mr. Clarke was ecstatic with the quick and efficient result - a perfect example how the WWNWS works with and, more importantly, FOR national coordinators.



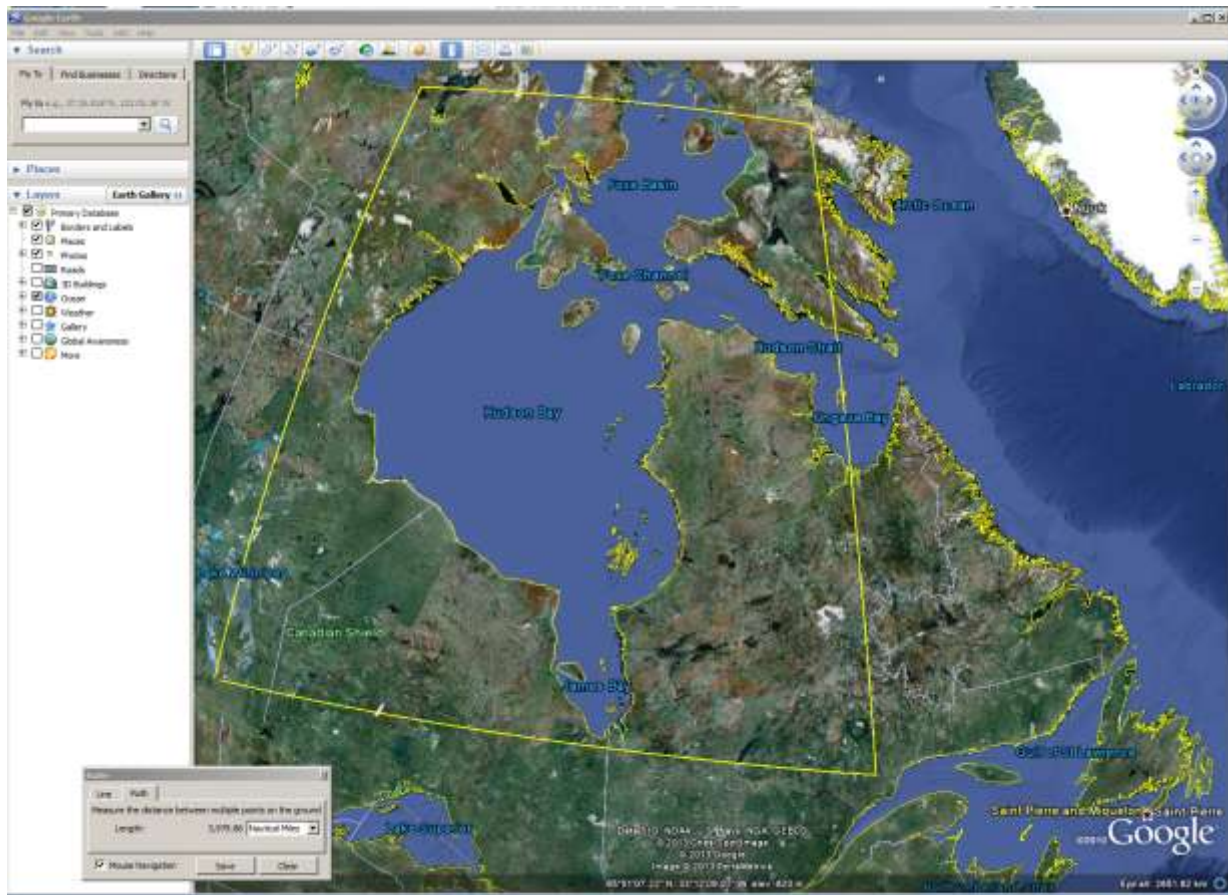
8. Other Activities:

Between April and June 2013, NAVAREA IV and METAREA IV conducted several meetings with the Meteorological Service of Canada to discuss its proposal to establish a new area over the Hudson Bay and approaches. All parties agreed with Canada's proposal to broadcast MET information within METAREA IV. It will begin initial operations testing in April 2014 with a goal to be fully operational by July 2014.

Bulletin broadcast times:
0300/1500 UTC during the shipping season.

Inmarsat-C dissemination parameters:
Via Enhanced Group Call using rectangular addressing.

Rectangular-referenced corner-points:
NW: 68N098W NE: 68N068W
SW: 50N098W SE: 50N068W



Conferences supported by the NAVAREA IV and XII Coordinator the past year:
 WNWNS4 Tokyo, Japan – September 2012
 IMO COMSAR Meeting, IHO Rep, London - January 2013
 IHO WNWNS Guidance Document Review Meeting, January - Mar 2013
 Radio Technical Commission for Maritime Services Annual Assembly Meeting – September 2013

9. NAVAREA Website:

<http://msi.nga.mil/NGAPortal/MSI.portal>

In-Force NAVAREA IV and XII messages are posted each morning from the previous 24hrs. Active NAVAREA IV and XII messages can be queried by a variety of menu options to include by specific NAVAREA, by NAVAREA number, by a NAVAREA number range and by date and date range.

Broadcast Warnings

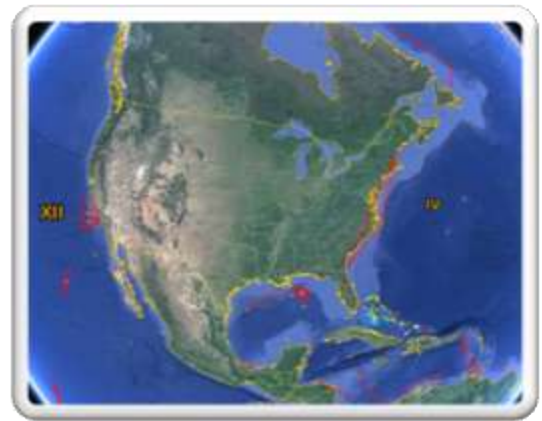
In support of the Global Maritime Distress and Safety System (GMDSS), Broadcast Warnings are promulgated by the Worldwide Navigational Warnings Service (WWNWS) to provide rapid dissemination of information critical to navigation and the safety of life at sea.

Navigational Warnings are issued regularly and contain information about persons in distress, or objects and events that pose an immediate hazard to navigation. The four types of Navigational Warnings - NAVAREA IV, HYDROLANT, NAVAREA XII, and HYDROPAC - are categorized by their location. [View graphic of Navigational Warnings limits.](#)

HYDROLANT: Warnings are issued for the Arctic region not covered by HYDROLANT and HYDROPAC messages.

Broadcast Warning messages are also available as a Google Earth (.kmz) file. [Download file](#)

Warning Type	Current Warning Number
NAVAREA IV	021 / 0018
NAVAREA XII	209 / 0018
HYDROPAC	131 / 0013
HYDROLANT	2093 / 0012
HYDROPAC	2577 / 0013
Special Warnings	125 / 0018



10. NAVAREA Contact Information:

U.S.A. (NAVAREA IV & XII)

Mr. Peter Doherty
 Operations Center Director
 ATTN: N65-SH
 7500 GEOINT Drive
 Springfield, Virginia 22150-7500
 Tel: +1 (571) 557 6746
 Fax: +1 (571) 558 3261
 E-mail: Peter.M.Doherty@nga.mil

11. Recommendations:

None

12. Actions requested:

Note the information provided

13. Synopsis:

The NAVAREA IV and XII Coordinator presented an overview of his self-assessment paper and noted that all broadcast messages promulgated during the previous 24 hours are posted to the NGA website. He stated that NAVAREA IV and XII have a business continuity plan and messages are promulgated from a secondary site on a routine basis, totally transparent to the shipboard user. He noted the very concerning Thrane and Thrane EasyMail software problem that both NAVAREA IV and NAVAREA I observed in February of 2013. He noted the benefits of the IHO's Capacity Building efforts in the most recent Maritime Safety Information Course conducted by the WWNWS-SC (NAVAREA I and IV) in Trinidad in May 2013. Lastly, he mentioned the new MET broadcast area in METAREA IV, which the Meteorological Service of Canada will operate and expect to be operational by June 2014.

FIGURE 1**PROMULGATION OF MARITIME SAFETY INFORMATION BY U.S. INFORMATION PROVIDERS****SCHEDULED BROADCAST TIMES**

WHAT	WHO	WHEN (UTC)	HOW	NAVAREA/ METAREA	SATELLITE
High seas warnings and forecasts	NWS	0430, 1030, 1630, 2230	SafetyNET	IV	AOR-W
High seas warnings and forecasts	NWS	0545, 1145, 1745, 2345	SafetyNET	XII	AOR-W/POR
High seas warnings and forecasts	NWS	0515, 1115, 1715, 2315	SafetyNET	XVI	AOR-W
Hurricane advisories West Atlantic	NWS	as required	SafetyNET	IV	AOR-W
Hurricane advisories East Pacific	NWS	as required	SafetyNET	XII	POR/AOR-W
Hurricane advisories Central Pacific	NWS	as required	SafetyNET	XII	POR
Long range navigational warnings	NGA	1000, 2200	SafetyNET	IV	AOR-W
Long range navigational warnings	NGA	1030, 2230	SafetyNET	XII	POR/AOR-W
Long range search and rescue	USCG	upon receipt	SafetyNET	IV/XII	AOR-W/POR
Coastal MSI	USCG	4 to 6 times daily for routine traffic; upon receipt for distress	NAVTEX	Generally, within 200 miles of the coastline	None; see Pub 117 for stations and times
Status of ice in North Atlantic Ocean	USCG	2200	SafetyNET	IV	AOR-W