

## MSI Self Assessment – NAVAREA IV and XII

Submitted by: United States

### SUMMARY

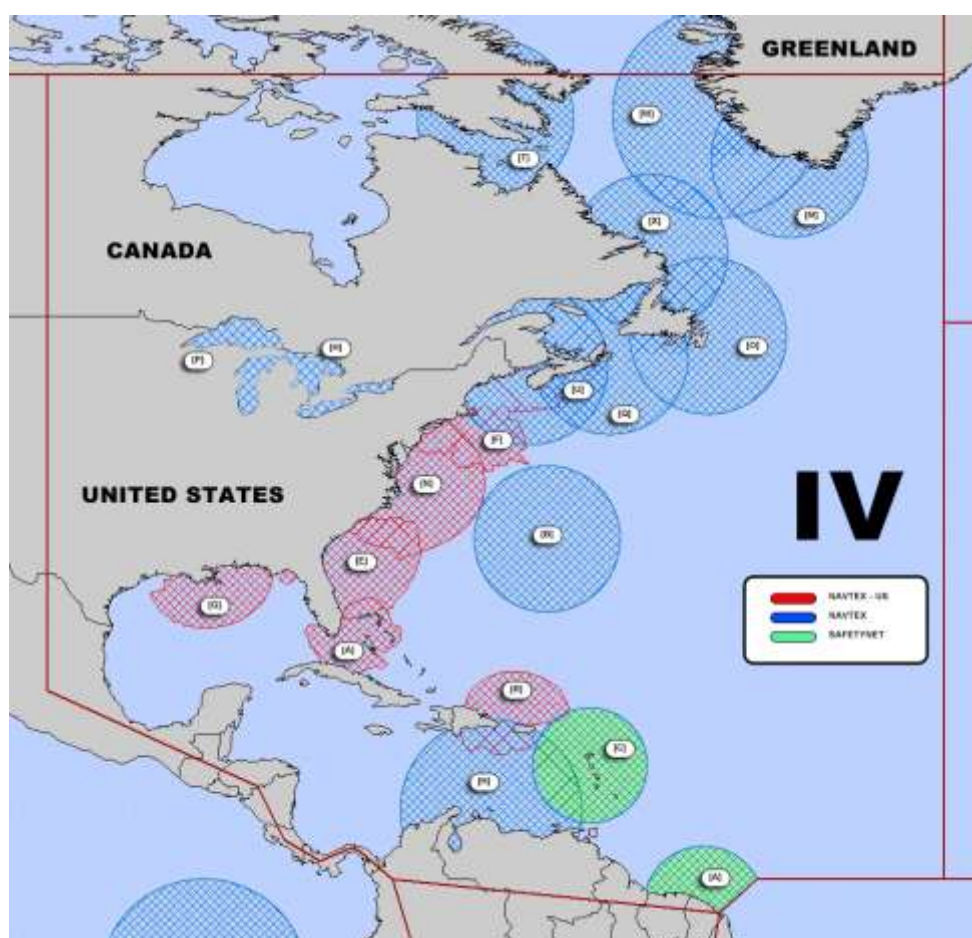
Executive Summary: Synopsis of activities within NAVAREA IV and XII since WWNWS5

Action to be taken: Note report

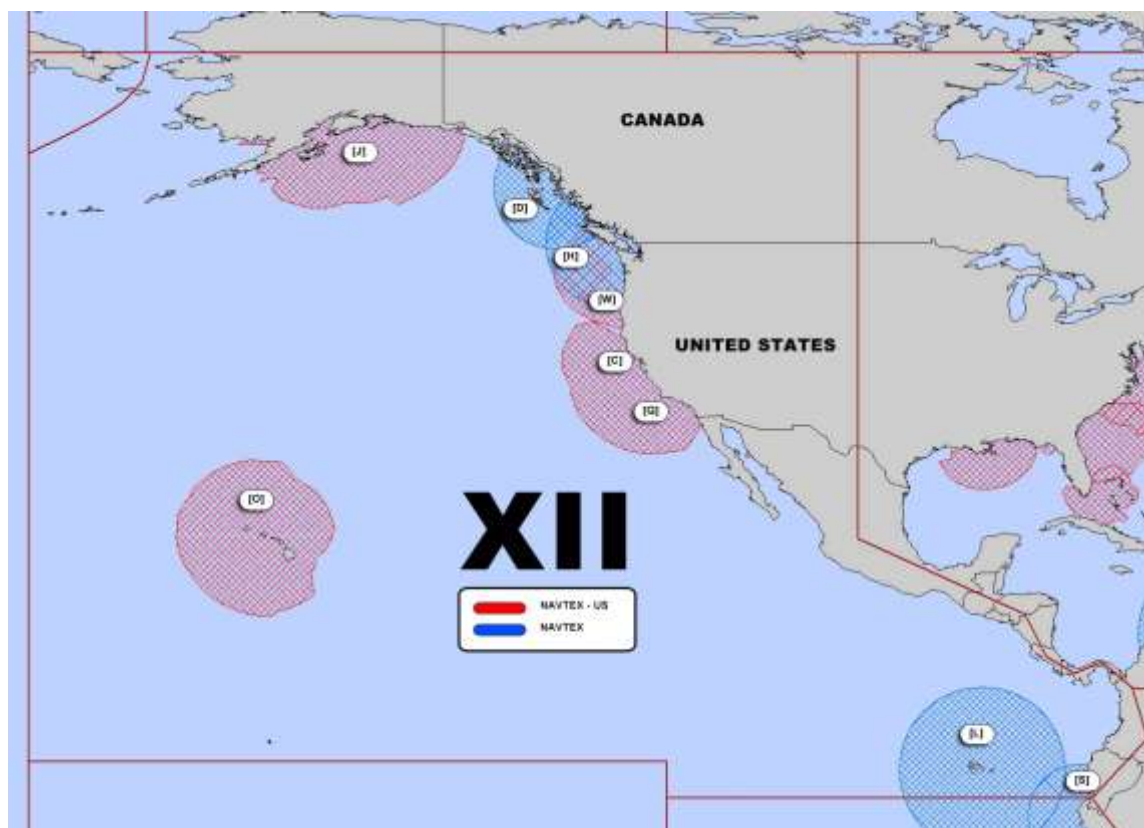
Related documents: None

#### 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.



For the schedule of broadcasts for Navigational Warnings and Meteorological Information, see figure 1.

#### **SafetyNET broadcast used**

NAVAREA IV: AOR-W

NAVAREA XII: POR and AOR-W

#### **GMDSS Service Provider**

Astrium

#### **Scheduled SafetyNET Broadcasts**

NAVAREA IV: 1000 and 2200

NAVAREA XII: 1030 and 2230

#### **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	757 398 6231	757 398 6392	d05-smb-d5cg@uscg.mil

## UNCLASSIFIED

	District 5			
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 District 13	206 220 7001	206 220 7009	D13cc@uscg.mil
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. David Jeronimo	01 55 56246500	01 55 56246500	depto.ayudas.nav@gmail.com

	Guadarrama Mendoza	Ext 7230		
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

## 2. Comments:

NAVAREA IV: Annex 8, LES changed from Southbury to Eik (Stavanger).

NAVAREA XII: Annex 8, LES changed from Southbury to Eik (Santa Paula).

Equipment Type	Software Version (EasyMail)	Date of Up-date
TT-3026S (Virginia, AOR-E)	1.15 Build 27 FW 2.25	06 FEB 09
TT-3026S (Virginia, AOR-W)	1.15 Build 27 FW 2.25	06 FEB 09
TT-3026S (Missouri, AOR-E)	1.15 Build 27 FW 2.25	06 FEB 09
TT-3026S (Missouri, AOR-W)	1.15 Build 27 FW 2.25	06 FEB 09
TT-3027M (San Diego, POR)	2.01 FW 1.05	08 JAN 14

**NAVAREA Warnings Promulgated**

	2011	2012	2013	2014
NAVAREA IV	437	761	832	598*
NAVAREA XII	461	341	324	253*

\*Through July 30, 2014

**Information and Data Received:**

2011				2012				2013			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
No data	No data	No data	No data	No data	No data	No data	No data	3504	60	728	19

**NAVAREA Warnings Identified as Immediate Priority**

	<b>2011</b>		<b>2012</b>		<b>2013</b>	
	Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
IV	N/A	Did not track	N/A	Did not track	216	16.2 Mins
XI	N/A	Did not track	N/A	Did not track	24	19.4 Mins

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 has plans (since 1999) to install NAVTEX stations at Cozumel and Vera Cruz, and possibly several other locations. NAVAREA IV/XII discussed this plan with delegates from Mexico at the WNWNS Document Review Working Group, held at the IMO in London 7-11 July 2014. NAVAREA IV/XII will continue to liaise with Mexico and the IMO NAVTEX Coordinating Panel to help facilitate the installation of Mexico's new coastal warning stations.

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.

#### 4. Operational Issues:

On 19 June 2013, NAVAREA XII installed a new POR monitoring transceiver, a Thrane and Thrane TT 3026M, at its remote site in San Diego, California. On 2 July 2013, NAVAREA XII observed the first fluctuations with the power, which caused the transceiver to shut down. Manual restart, almost always the following day, resulted in all customized settings reverting to the original factory settings. After several weeks of trouble shooting, NAVAREA XII contacted Thrane and Thrane for support. Over the next several months, Thrane and Thrane provided different diagnoses for the power fluctuation. Finally, in March 2014, a backup power supply was added. Then, Thrane and Thrane recommended increasing the power supply from 15 Volts Direct Current (VDC) to 24 VDC. Neither solution worked. Throughout this entire period the transceiver would remain operational from between two to five days before shutting down. NAVAREA XII continued to trouble shoot and began consulting with its contractor that purchased the equipment to determine what warranty claim might be made. In late April 2014, the contractor inquired if the firmware was current. It turns out that it was not. NAVAREA XII upgraded the firmware and has not had a problem since.

#### 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 WNWWS-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 10 training courses provided since its initial offering in 2007. The WNWWS-SC facilitated its most recent course in Fish Hoek, South Africa in December 2013, supporting the Southern Africa and Islands (SAIHC) 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 NAVAREA's I, IV and XII with additional instructor support provided by the NAVAREA Coordinator(s) within the RHC.

## 8. Other Activities:

Assisted Meteorological Service of Canada, in conjunction with METAREA IV, with the establishment of a MET information service for the Hudson Bay area within METAREA IV. Initial operating capability (IOC) began in April 2014, with fully operational capability on July 2, 2014. NAVAREA IV issued the following warning:

NAVAREA IV 302/2014

CANADA-NORTH COAST.  
HUDSON BAY.

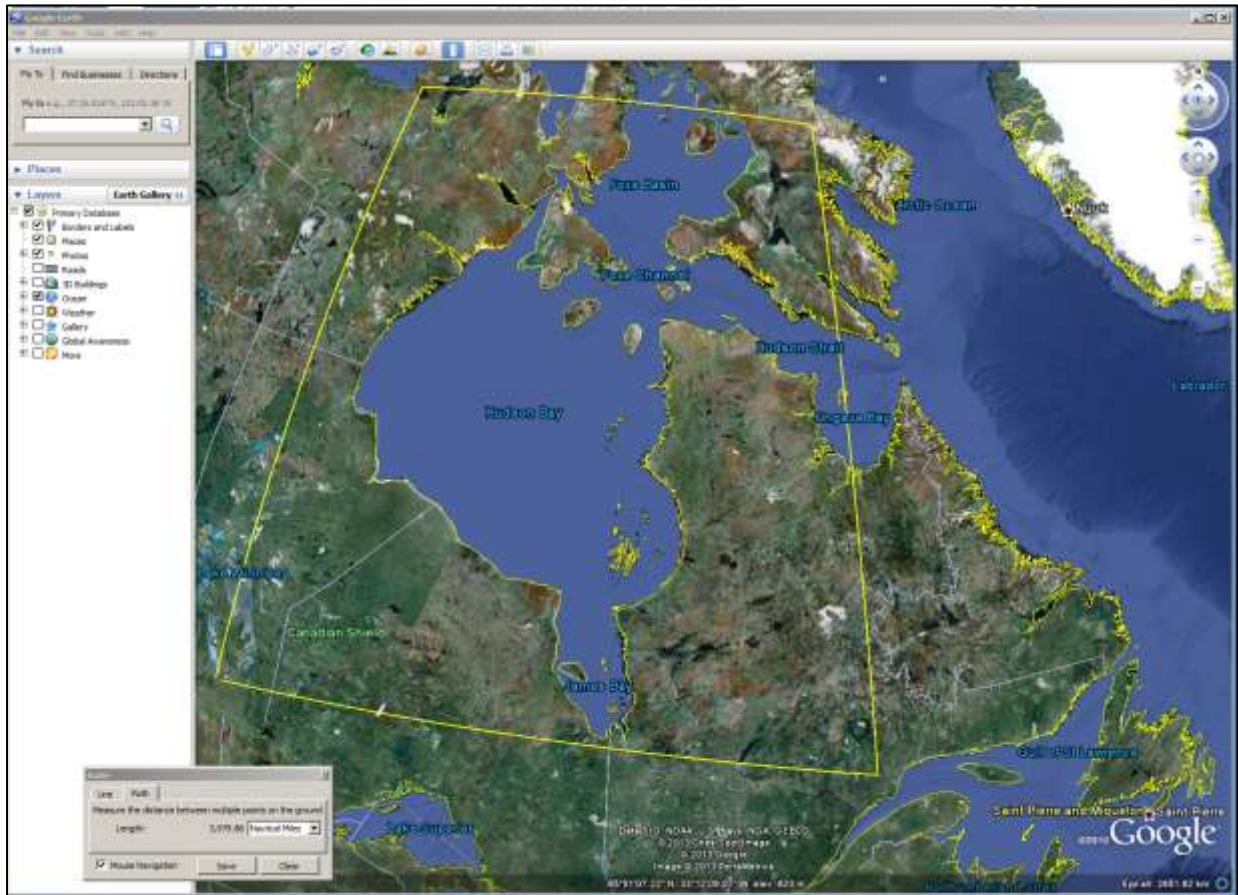
1. ENVIRONMENT CANADA ADVISORY TO NORTHERN AND ARCTIC MARINE INTERESTS REGARDING IMPLEMENTATION OF MARINE FORECAST AND ICE INFORMATION SERVICES TO NORTHWESTERN SECTIONS OF METAREA IV INCLUDING HUDSON BAY AND APPROACHES.
2. THE FOLLOWING ADVISORY FROM ENVIRONMENT CANADA IS TO INFORM NORTHERN AND ARCTIC MARINE INTERESTS OF INITIAL OPERATIONAL CAPABILITY (IOC) OF MARINE FORECAST AND ICE INFORMATION SERVICES FOR NORTHWESTERN SECTIONS OF METAREA IV INCLUDING HUDSON BAY AND APPROACHES.
3. COMMENCING WEDNESDAY 301500Z APR 14 ENVIRONMENT CANADA WILL BEGIN IOC TESTS OF PRODUCTION AND DISSEMINATION SYSTEMS FOR MARINE FORECAST AND ICE INFORMATION SERVICES TO NORTHWESTERN SECTIONS OF METAREA IV INCLUDING HUDSON BAY AND APPROACHES.
4. IOC TESTING WILL BE ONGOING DURING THE RUN UP TO IMPLEMENTATION OF FULL OPERATIONAL CAPABILITY (FOC) OF MARINE FORECAST AND ICE INFORMATION SERVICE TO NORTHWESTERN SECTIONS OF METAREA IV SCHEDULED FOR 02 JUL 14.
5. BULLETIN BROADCAST TIMES WILL BE 0300Z AND 1500Z DAILY DURING THE IOC TEST PERIOD.
6. MARINE FORECAST AND ICE INFORMATION BULLETIN WILL BE BROADCAST OVER INMARSAT-C SAFETYNET VIA ENHANCED GROUP CALL (EGC) USING INMARSAT-C RECTANGULAR AREA ADDRESSING TO THE APPROPRIATE AREA OF COVERAGE.



7. THIS IOC TEST PERIOD SERVICE MAY BE INTERMITTENT AND SUBJECT TO PERIODIC OUTAGES WITHOUT NOTIFICATION. REGULAR SERVICE IS NOT GUARANTEED.
8. FOR ADDITIONAL INFORMATION CONTACT ENVIRONMENT CANADA, PHONE: 709 256 6612 OR BY E-MAIL: TOM.KING@EC.GC.CA.
9. CANCEL THIS MSG 06 MAY 14.

Rectangular-referenced corner-points:

NW:	68N098W	NE:	68N068W
SW:	50N098W	SE:	50N068W



In early July 2014, the United States Coast Guard (USCG) began automatically posting NAVTEX warnings for NAVAREA IV on its website. At this stage the website is still a prototype, but it is the first step towards geospatially enabling the data so it can be viewed graphically. Users can select “All” warnings or, from a drop-down menu, choose to view only warnings from a specific station: Miami (A), Charleston (E), Boston (F), New Orleans (G), Portsmouth (N), or San Juan (R). The USCG has plans to provide the same type of service for NAVTEX stations on the west coast of United States later in 2014 or early 2015.





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**GMDSS**

- GMDSS Overview
- GMDSS Task Force
- GMDSS Areas of Operation
- GMDSS Systems
- Compliance Requirements
- GMDSS Reference Info
- NAVTEX Broadcast Info
- EPRB Information
- Cancelling False Alerts
- Radio Info For Boaters
- Comms Data Elements
- Maritime Mobile Service IDs
- Frequently Asked Questions
- Return to Telecoms Home
- Inmarsat C SafetyNET

**NAVTEX MESSAGES**

Message Type: A-NAVTEX

**A-NAVTEX - Miami**

**DTG: 07/28/2014 08:46:00**

UNCLAS //N16502//DTG 281246Z JUL 14  
SUBJ: SAFETY BROADCAST NOTICE TO MARINERS//A//UPDATE  
SAFETY BROADCAST NOTICE TO MARINERS//A//UPDATE  
BROADCAST AT A.E.  
CCGDSEVEN BNM 257-14(UPDATE 2)  
ATLANTIC OCEAN-FLORIDA-CAPE CANAVERAL  
1. EASTERN RANGE OP D0004 DELTA-IV AFSPC-04 WILL BE CONDUCTING  
HAZARDOUS OPERATIONS SURFACE TO UNLIMITED WITHIN THE FOLLOWING AREAS:

A: FROM 2834N 8034W  
TO 2833N 8019W  
TO 2830N 8013W  
TO 2828N 8013W  
TO 2827N 8021W  
TO 2827N 8023W  
TO 2829N 8033W TO BEGINNING  
B: FROM 2830N 7941W  
TO 2830N 7926W  
TO 2822N 7926W  
TO 2822N 7941W TO BEGINNING  
C: FROM 2409N 5657W  
TO 2338N 5508W  
TO 2331N 5511W  
TO 2401N 5659W TO BEGINNING  
2. HAZARD PERIODS FOR PRIMARY AND BACKUP LAUNCH DAY:  
PRIMARY: 28/2243Z THRU 29/0019Z JUL 14. T-0 IS 2243Z  
BACKUP: 29/2239Z THRU 30/0015Z JUL 14. T-0 IS 2239Z  
3. CANCEL AT TIME //300015Z JUL 14//

**DTG: 07/28/2014 02:35:00**

UNCLAS //N16502//DTG 281835Z JUL 14  
SUBJ: SAFETY BROADCAST NOTICE TO MARINERS//A//  
BROADCAST AT A.E.  
CCGDSEVEN BNM 281-14  
SOUTH CAROLINA-CHARLESTON HARBOR-ASHLEY RIVER  
1. ASHLEY RIVER BUOY 5 (LLNR 3600) RPTD MSG.  
2. CANCEL AT TIME //310400Z JUL 14//

**Mission Areas**

- Global Positioning System
- Nationwide DGPS
- Nationwide AIS (NAIS)
- AIS (Overview, Messages, etc.)
- Long Range Identification and Tracking
- Local Notice to Mariners
- Light Lists
- Civil GPS Service Interface Committee
- LORAN C (archive)

**Subscribe / Report (free)**

- Local Notice to Mariners (Weekly)
- GPS Operational Summary (Daily)
- NAIUs (upon occurrence)
- Join CGSC
- Report an ATON Discrepancy or Outage
- Report a GPS Problem
- Report an NDGPS Problem
- Report an LRIT Problem
- Report an NAIS Problem
- Contact Us

**Maritime Information**

- Maritime Safety Information Downloads
- Maritime Telecommunications
- CG Natl Distress System
- Global Maritime Distress and Safety System
- Marine Safety Information Broadcasts

NAVAREA IV recently started to receive timely MSI from Colombia and it attributes this to the country's attendance at the 2013 Meso American & Caribbean Sea Hydrographic Commission (MACHC) meeting, where NAVAREA IV/XII provided a presentation on MSI. Colombia now provides weekly updates. NAVAREA IV would like to personally thank the Dirección General Marítima (Dimar), the Colombia Maritime Authority, and, in particular, Suboficial Primero Carlos Alberto Zúñiga Guzmán, for their efforts to support NAVAREA IV.

**Conferences supported by the NAVAREA IV and XII Coordinator the past year:**

WWNWS5 Monaco – September 2013

IMO NCSR1 Meeting, IHO Rep, London - July 2014

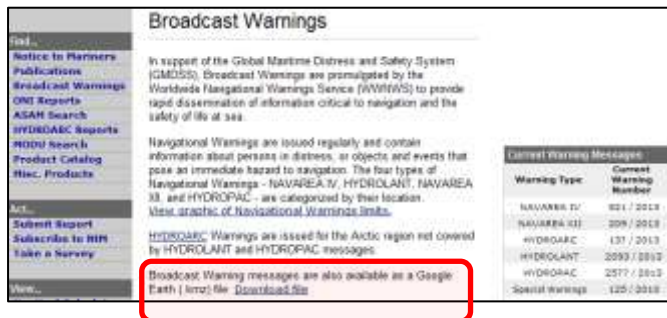
IHO WWNWS Guidance Document Review Meeting, July - Mar 2014

Radio Technical Commission for Maritime Services Annual Assembly Meeting – May 2014

## 9. NAVAREA Website:

[www.nga.mil/maritime](http://www.nga.mil/maritime)

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.



## 10. NAVAREA Contact Information:

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

Mr. Peter Doherty  
 Deputy Director NOX  
 ATTN: N65-SP  
 7500 GEOINT Drive  
 Springfield, Virginia 22150-7500  
 Tel: +1 (571) 557 6746  
 Fax: +1 (571) 558 3261  
 E-mail: [Peter.M.Doherty@nga.mil](mailto:Peter.M.Doherty@nga.mil)  
 E-mail for NAVAREA IV or XII: [navsafety@nga.mil](mailto:navsafety@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, which are 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 collaboration with Mexico and Colombia concerning MSI. He discussed the firmware problem and solution with Thrane and Thrane's mini-C transceiver, model TT 3027M. He noted the fully operational status of the new Hudson Bay meteorological information area within METAREA IV. Lastly, he described the work that the U.S. Coast Guard recently completed to automatically make NAVTEX warnings for the east coast of the United States available on its website.

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

<b>SCHEDULED BROADCAST TIMES</b>					
<b>WHAT</b>	<b>WHO</b>	<b>WHEN (UTC)</b>	<b>HOW</b>	<b>NAVAREA/ METAREA</b>	<b>SATELLITE</b>
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