

MSI Self Assessment NAVAREA V

Submitted by BRAZIL

SUMMARY

Executive Summary: Synopsis of Activities within NAVAREA V since WWNWS2

Action to be taken: Note report

Related documents: None

1. Background:

1.1 - The Radio Navigational Warnings broadcast in NAVAREA V is performed through the following services:

a) SafetyNET Service

The NAVAREA and Coastal warnings are broadcast by SafetyNET, in English, with messages transmitted twice a day, in programmed schedules 0030Z and 1230Z, by Burum Stratos Mobile Land Earth Station (LES) - AOR-E satellite (112), (tel, fax e-mail) in Brazil counterside is represented by OnixSAT (tel: +55 43 3371-3765; fax: +55 43 3371-3765(5); joao.morini@onixsat.com.br). NAVAREA V warnings in force for more than six (6) weeks are not included in these messages, since they are issued in Notices to Mariners.

The Coastal Warnings are also transmitted by SafetyNET since Brazil does not use NAVTEX service.

The geographic boundaries of the NAVAREA V and Coastal areas are shown at Annex A.

b) Radio (VHF/HF) Services

b.1 - Navy's Radio Station in Rio de Janeiro (PWZ33)

NAVAREA and Coastal Navigational Warnings (in English and Portuguese) and Local warnings (in Portuguese) are broadcast by messages in HF band (for radio data) and transmitted three times a day, in programmed schedules 0400Z, 1430Z and 2130Z. Warnings in force for more than six (6) weeks also are not included in these messages, since they are issued in Notices to Mariners; and

b.2 - Coast Stations National Net (RENEC)

NAVAREA, Coastal and Local Navigational Warnings considered urgent or of great relevance are timely broadcast, by radiotelephony messages, in Portuguese, in the VHF/HF

bands.

c) INTERNET

All NAVAREA and Coastal Warnings (in English and Portuguese) and Local Warnings (in Portuguese) in force are available on the INTERNET. The lists of Navigational Warnings are updated at least twice a day.

d) Notices to Mariners

NAVAREA V warnings in force for more than six (6) weeks are issued in Section II (NAVAREA, Coastal and Local, in Portuguese) and Section VII (NAVAREA and Coastal, in English) of Maritime Area and Inland Waters in General (edited fortnightly) in Notices to Mariners. More details on promulgation of NAVAREA V Warnings, as well as other Maritime Safety Information as a whole are presented in Table 1 of the booklet, and shown at Annex B.

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

COUNTRY	TELEPHONE	FACSIMILE	EMAIL
BRAZIL	+55 21 2189-3023	+55 21 2189-3210	segnav@chm.mar.mil.br

2. Comments:

2.1. The following table shows the number of Radio Navigational Warnings that were promulgated as SafetyNet messages:

Type/Year	2009	2010	2011 (by JUL)
NAVAREA	68	569	407
COASTAL	1289	1647	618

2.2. The following table shows the number of Radio Navigational Warnings that were broadcast through all services (SafetyNET, VHF/HF and Internet), considering the warnings inside each bulletin and those that were transmitted as trial individual messages:

Type/Year	2009	2010	2011 (by JUL)
NAVAREA	68	569	407
COASTAL	1289	1647	618
LOCAL	1077	2276	1186
TOTAL	2434	4492	2211

2.3. Monitoring of MSI: in August 2008, NAVAREA V installed a Inmarsat Mini-C 3026S station and since then has been monitoring the MSI promulgated.

3. NAVTEX Coverage:

There are no NAVTEX stations operating within NAVAREA/METAREA V.

4. Operational Issues:

Stratos Mobile Company - Burum LES was contracted again, as NAVAREA V SafetyNET provider, period from MAR2011 to MAR2012. NAVAREA V Coordinator is planning to install some NAVTEX stations in the coastline positions, where they could increase the efficiency on promulgating Maritime Safety Information.

5. Quality Management Survey

NAVAREA	ISO 9001 -2008	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
V	YES	YES	YES	YES	YES	YES	YES

6. Contingency Planning

NAVAREA V Coordinator (Diretoria de Hidrografia e Navegação - DHN, Brazil) and the NAVAREA VI Coordinator (Servicio de Hidrografia Naval - SHN, Argentina) have started an agreement to establish a common Contingent Plan. It is underway to set the procedures to be taken for a mutual support in case of a catastrophic or eventual failure occurring in the SafetyNET Service of one of each NAVAREA. The purpose is to guarantee that MSI warnings from the NAVAREA affected will continue being broadcast and monitored, until such failure has been corrected.

From last 2010 WNWWS2 meeting in Sydney - Australia to July 2011, both countries have been making transmission tests with success, as one of the steps to carry out the current agreement and to guarantee the correct procedures to be put in the Contingent Plan.

7. Capacity Building:

In agreement with NAVAREA VI Coordinator, NAVAREA V Coordinator presented to the SWATHC, during the 3rd and again during the 4th Meeting of that Commission, a proposal of one IMO/IHO MSI Capacity Building Course that their members should attend, extending the invitation to others South American countries. The course was included in the IHO CBSC program and took place at Diretoria de Hidrografia e Navegação (DHN), Niterói/Rio de Janeiro - Brazil, from 16 to 20 May 2011. It was an opportunity for NAVAREA Coordinators and Hydrographic Services to share their experiences, optimize operational proceedings putting them accordingly international rules treated on how to control, process and disseminate the Maritime Safety Information (MSI).

8. Other Activities:

IHO (HSSC, IRRC, CBSC, TSMAD, SNPWG, DQWG, CSPCWG TWL WG, HDWG, ABLOS, GEBCO, SCUNF, WNWWS);
RHC (MACHC, SW ATHC, SAICH, HCA); and IMO (NAV).

9. NAVAREA Website:

NAVAREA V

a) Address: https://www.mar.mil.br/dhn/chm/avgantes/english/avgantes_ing.html

Links (English): "Notices to Mariners and Radio Navigational Warnings and SAR".

Frequency of update: twice a day, as a rule.

Number of hits: not quantified.

10. NAVAREA Contact Information:

Coordinator: Diretoria de Hidrografia e Navegação (DHN)

Rua Barão de Jaceguay, s/n°, Ponta d'Areia

Niterói - Rio de Janeiro, Brasil

CEP: 24048-900

NAVAREA V Contacts:

Commander Frederico Carlos **Muthz** Medeiros de Barros

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11. Recommendations:

None.

12. Actions requested:

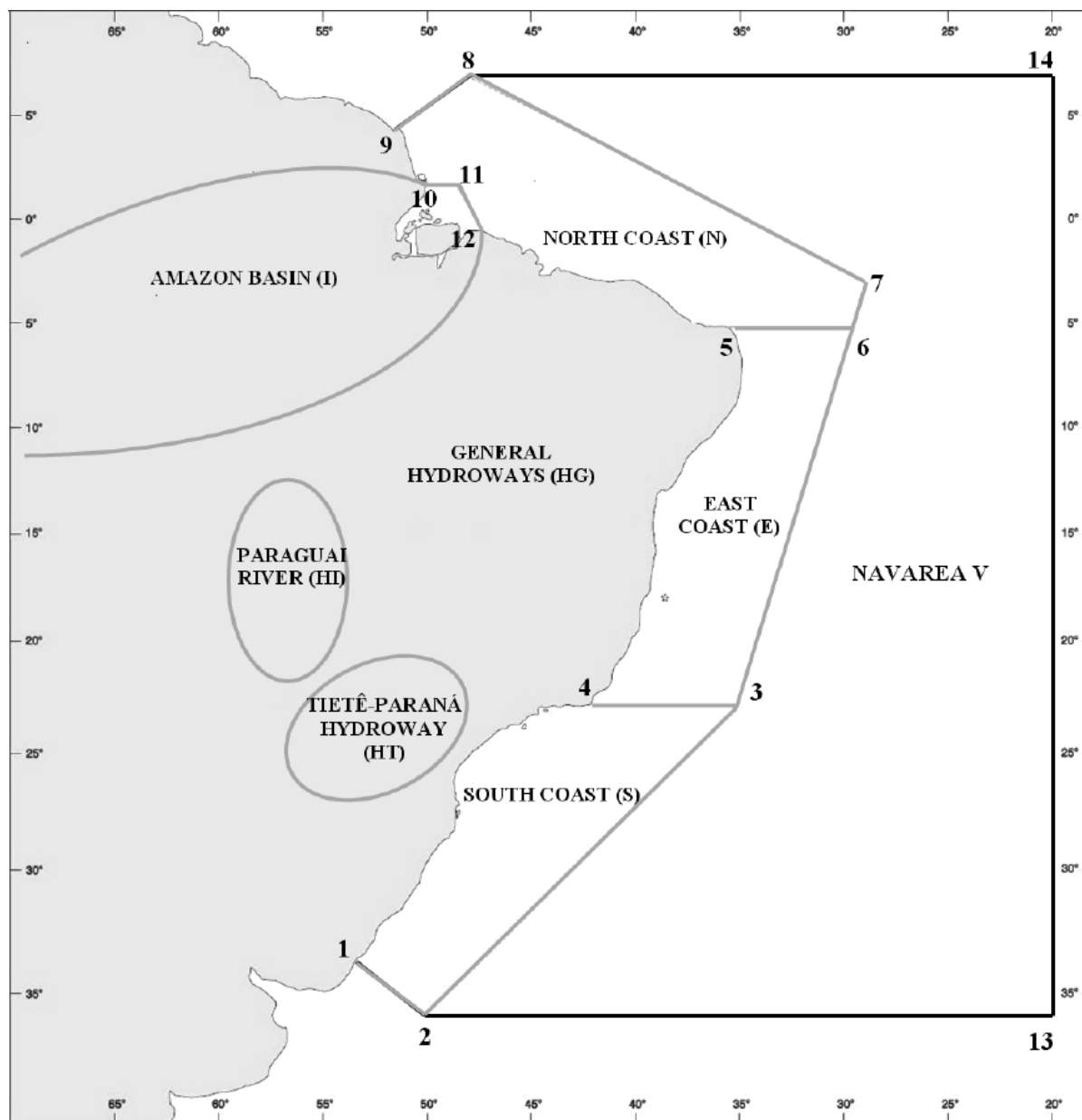
Note the information provided.

13. Synopsis:

NAVAREA V is operating with Stratos Mobile-Burum LES, in an annual contract. NAVAREA V in agreement with NAVAREA VI is continuing the process to establish a common Contingent Plan, with successful transmitting tests over the year of 2011.

IMO/IHO MSI Capacity Building Course, focused to South American countries, took place at Diretoria de Hidrografia e Navegação (DHN), Niterói/Rio de Janeiro - Brazil, from 16 to 20 May 2011 as a great opportunity for NAVAREA Coordinators and Hidrographic Services to share their experiences and optimize operational proceedings, putting them accordingly international rules.

Representation of NAVAREA V, Coastal Regions and Inland Waters, for classification and identification of Radio Navigational Warnings.



a) NAVAREA V – Is comprised of the maritime area pointed by the following coordinates:

Points	LATITUDE	LONGITUDE
1	33° 45' S	053° 22' W
2	35° 50' S	050° 10' W
13	35° 50' S	020° 00' W
14	07° 00' N	020° 00' W
8	07° 00' N	049° 28' W
9	04° 30' N	051° 35' W

b) COASTAL REGIONS – Is comprised of the maritime areas pointed by the geographic coordinates mentioned below, as well as bays, inlets, and ports covered by them:

AMAZON BASIN (I)¹

Points	LATITUDE	LONGITUDE
10	01° 40' N	049° 55' W
11	01° 40' N	048° 35' W
12	00° 37' S	047° 22' W

NORTH COAST (N)

Points	LATITUDE	LONGITUDE
5	05° 10' S	035° 29' W
6	05° 10' S	029° 33' W
7	03° 00' S	028° 55' W
8	07° 00' N	049° 28' W
9	04° 30' N	051° 35' W
10	01° 40' N	049° 55' W
11	01° 40' N	048° 35' W
12	00° 37' S	047° 22' W

EAST COAST (E)

Points	LATITUDE	LONGITUDE
3	23° 01' S	035° 00' W
4	23° 01' S	042° 00' W
5	05° 10' S	035° 29' W
6	05° 10' S	029° 33' W

SOUTH COAST (S)

Points	LATITUDE	LONGITUDE
1	33° 45' S	053° 22' W
2	35° 50' S	050° 10' W
3	23° 01' S	035° 00' W
4	23° 01' S	042° 00' W

¹ – comprises Amazon and Pará rivers estuaries;
 - In Amazonas river, downstream Santana Leste light;
 - In Pará river, downstream the leading line Chapé Virado light – Coroa Grande light.

ISSUE OF MARITIME SAFETY INFORMATION FOR NAVAREA/METAREA V

A) TRANSMISSIONS VIA RADIO (HF BAND) – BRAZILIAN NAVY’S RADIO STATION IN RIO DE JANEIRO				
SERVICES	SCHEDULES (DAILY)	CHANNELS (*)	FREQUENCIES	CONTENTS
RADIO NAVIGATIONAL WARNINGS AND SAR INFORMATION	0400 to 0500Z	RD	4.266,0 kHz (on demand of mariner) 6.448,0 kHz 8.580,0 kHz	- Area and Coastal Radio Warnings, except those already published in Notices to Mariners, and SAR Information (Portuguese/English) - Local Radio Warnings, except those already published in Notices to Mariners, and SAR information (Portuguese).
	1430 to 1545Z	RD		
	2130 to 2245Z	RD		
METEOROLOGICAL BULLETINS	0230 to 0330Z	RD	12.709,0 kHz	- Meteorological forecasts (Portuguese/English) - Meteorological warnings (Portuguese/English)
	0600 to 0730Z	RD	16.974,0 kHz	
	1845 to 1930Z			
METEOROLOGICAL CHARTS	0745 to 0925Z	RS	12.665,0 kHz	- Analysis of atmospheric pressure on surface - Height and direction of waves - Wind at 10m above surface - Sea surface temperature
	1630 to 1810Z		16.978,0 kHz	
B) TRANSMISSIONS VIA RADIO (VHF AND HF BANDS) – COASTAL STATIONS NET (RENEC) OF EMBRATEL				
SERVICES	SCHEDULES	CHANNELS (*)	FREQUENCIES	CONTENTS
METEOROLOGICAL BULLETINS	On demand of mariner	RL	VHF: Call in 156,8 MHz (Channel 16) and traffic in a Channel to be designed by the station. HF: Call in 4.125,0 kHz and traffic in a frequency designed by the station	- Meteorological Forecast (Portuguese/English) - Meteorological warnings (Portuguese/English)
METEOROLOGICAL WARNINGS, RADIO NAVIGATIONAL WARNINGS AND SAR INFORMATION	As necessary			- Meteorological warnings (Portuguese/English) - Most relevant Area, Coastal and Local Radio Warnings - SAR information (English)
C) TRANSMISSIONS VIA SATELLITE (INMARSAT-C) – BURUM EARTH STATION OF STRATOS MOBILE				
SERVICES	SCHEDULES (DAILY)	SATELLITE	CONTENTS	
RADIO NAVIGATIONAL WARNINGS AND SAR INFORMATION	0030Z and 1230Z or as necessary	East Atlantic (AOR-E)	- SAR Information (English) - Area and Coastal Warnings (English), except those already published in Notices to Mariners.	
METEOROLOGICAL BULLETINS	0730Z and 1930Z or as necessary		- Meteorological forecasts (English) - Meteorological warnings (English)	
D) INTERNET				
SERVICES	SITES AND LINKS		CONTENTS	
RADIO NAVIGATIONAL WARNINGS AND SAR INFORMATION	www.mar.mil.br/dhn/chm/avgantes/avgante.htm		Area, Coastal and Local Radio Warnings (Portuguese)	
	www.mar.mil.br/dhn/chm/avgantes/english/index.htm		Area and Coastal Radio Warnings (English)	
NOTICES TO MARINERS (**)	www.mar.mil.br/dhn/chm/avgantes/folheto/pdf.htm (choose the link of NM of interest)		- In Section II of NM: Area, Coastal and Local Radio Warnings (Portuguese) in force more than 6 weeks.	
	www.mar.mil.br/dhn/chm/avgantes/english/pdfing.htm (choose the link of NM of interest)		- In Section VII of NM: Area and Coastal Radio Warnings (English) in force more than 6 weeks.	
METEOROLOGICAL BULLETINS	www.mar.mil.br/dhn/chm/meteo/index.htm (choose the link “meteoromarinha” – in Portuguese)		- Meteorological forecasts (Portuguese/English)	
	www.mar.mil.br/dhn/chm/meteo/indexing.htm (choose the link “bulletins” – in English)		- Meteorological warnings (Portuguese/English)	
METEOROLOGICAL WARNINGS	www.mar.mil.br/dhn/chm/meteo/index.htm (choose the link “avisos de mau tempo” – in Portuguese)		- Meteorological warnings (Portuguese/English)	
	www.mar.mil.br/dhn/chm/meteo/indexing.htm (choose the link “severe weather warnings” – in English)			
METEOROLOGICAL CHARTS	www.mar.mil.br/dhn/chm/meteo/index.htm (choose the link “cartas sinóticas” – in Portuguese) (choose the link “previsão numérica” - in Portuguese) www.mar.mil.br/dhn/chm/meteo/indexing.htm (choose the link “synoptic charts” – in English) (choose the link “numerical predictions” – in English)		- Analysis of atmospheric pressure on surface and other products.	

(*) RD: Radio Data (J2D)

RS: Radio facsimile (F3C)

RL: Radiotelephone (F3E e J3E)

(**) SAR (search and rescue) Radio Warnings and Radio Navigational Warnings related to gunnery area interdiction, tows, derelicts, boat races, movement of vessels in maritime surveys and other brief activities are not present in sections II and VII of Notice to Mariners.