
MSI Self Assessment - NAVAREA V
Submitted by: Brazil

1. **Action Required:** The Commission attention is drawn to paragraph 4. below.

2. **Background:**

Brazil is the NAVAREA V Co-ordinator and the Diretoria de Hidrografia e Navegação (DHN) is the National Co-ordinator. There is no Sub-Area Co-ordinator inside (Brazil is the only country inside the Area).

Radio Navigational Warnings are promulgated in NAVAREA V through the following services:

a) SafetyNET Service

NAVAREA and Coastal¹ warnings are broadcast in English, twice a day, with messages scheduled at 0400Z and 1230Z, by the Tanguá Land Earth Station (LES) and AOR-E satellite. Warnings in force more than six (6) weeks are not included in these messages.

All warnings have been transmitted only at the scheduled broadcast. This procedure seems not be in accordance with the resolution A 706 (17).

b) Radio Services (VHF/HF)

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

NAVAREA and Coastal Navigational warnings (English and Portuguese languages) and Local warnings (in Portuguese) are broadcast via messages in HF band (for radio data and radio-telex) and transmitted three times a day, in

¹ Brazil does not use NAVTEX service.

programmed schedules 0400Z, 1430Z and 2130Z. Warnings in force more than six (6) weeks are not included in these messages.

b.2 – COASTAL STATIONS NATIONAL NET (RENEC)

NAVAREA, Coastal and Local Navigational warnings considered urgent or of great relevance are broadcast in Portuguese, as soon as possible, via radiotelephone messages, in both VHF and HF bands.

c) INTERNET

All NAVAREA and Coastal warnings (in English and Portuguese languages) and Local warnings (in Portuguese) are available for access in the Internet.

d) Notice to Mariners

Some NAVAREA V warnings in force more than six (6) weeks are presented at Section II (NAVAREA, Coastal and Local, in Portuguese) and in Section VII (NAVAREA and Coastal, in English) of the NAVAREA V Notices to Mariners.

More details on promulgation of NAVAREA V warnings, as well as of other Maritime Safety Information are presented in the Annex A.

3. Comments

The following table shows the number of SafetyNet navigational warning messages (including weekly bulletins) that were promulgated:

Type/Year	2005	2006	2007(AUG)
NAVAREA	730	730	486
COASTAL*	xx	xx	62

*Until August 1st 2007, NAVAREA and Coastal warnings were transmitted as a unique NAVAREA message by SafetyNET System. From that date on, NAVAREA and Coastal Warnings became transmitted separately as depicted at 5.2 Item.

The following table shows the number of navigational warnings that were promulgated through all services (SafetyNET, VHF/HF and Internet):

Type/Year	2005	2006	2007(AUG)
NAVAREA	1046	907	767
COASTAL	683	1063	777
LOCAL	1867	2183	1321

4. NAVTEX Coverage:

Brazil does not broadcast coastal warning via NAVTEX.

5. Operational Issues

5.1 Classification of Navigational Warnings within NAVAREA V

NAVAREA V Navigational Warnings are classified as the following criteria:

a) Types of warning (based on the distance from shore)

- NAVAREA – considered of interest to the oceanic navigation (at an average distance more than 50 nautical miles from the coast);
- Coastal – considered of interest to the coastal navigation (at an average distance between 3 and 50 nautical miles from the coast); and
- Local – considered of interest to the inshore navigation (at an average distance less than 3 nautical miles from the coast or inland waters - ports, bays, rivers, lakes, lagoons).

b) Areas of interest

- North (N) – warnings (NAVAREA, Coastal and Local) that affect the area above parallel 05-10.00S;
- EAST (E) - warnings (NAVAREA, Coastal and Local) that affect the area between parallels 05-10.00S and 23-01.00S;
- South (S) – warnings (NAVAREA, Coastal and Local) that affect the area below parallel 23-01.00S;
- Amazon Basin (A) – warnings (only Coastal and Local) that affect the area of Amazon and Para rivers and their estuaries;

- Foreign (T) – warnings (only NAVAREA and Coastal) that affect the outside area of NAVAREA V (up to 700 nautical miles); and
- General (G) - warnings (NAVAREA, Coastal and Local) that affect more than one of designated areas above or are of general concern.

These areas, together with the METAREA V ones, are shown at Annex B.

Obs: other classifications for the assignment of areas with regard to rivers, lakes etc exist, but are not presented here.

5.2 Numbering and Identification of Navigational Warnings within NAVAREA V

a) Warnings are numbered consecutively throughout the year, commencing with 001 at 0000 UTC on 1st January, as following:

- NAVAREA: from 0001 to 3999;
- Coastal: from 4001 to 7999; and
- Local: from 8001 on.

b) Warnings are identified as: (Area of interest) (Number)/(2 digits of year in which the warning was broadcast)

- Ex: N 0072/07 (NAVAREA warning of year 2007 regarding to North Coast);
S 4071/07 (Coastal warning of year 2007 regarding to South Coast);
A 8045/06 (Local warning of year 2006 regarding to Amazon Basin).

5.3. Transmission of NAVAREA and Coastal warnings by SafetyNET

Traditionally, NAVAREA and Coastal Warnings of NAVAREA V had been broadcast together, as a unique message, via SafetyNET. Although those messages were codified as referring only to NAVAREA warnings (using "1.1.31.05.01.00" codification), in fact, Coastal warnings were included too.

Looking for better compliance with International recommendations for World-Wide Navigational Warning Service and in order to make information easier to be consulted by mariners, from August 01st 2007 on, the following changes were established in the structure of SafetyNET messages for NAVAREA V:

a) NAVAREA warnings: continue to be transmitted by a message codified as "1.1.31.05.01.00", but warnings inside messages are shown in a decreasing numerical sequence and divided in accordance with areas of interest (North, East, South, Foreign or General).

b) Coastal warnings: became transmitted by a message codified as "1.1.13.05AA.01.00" (note: the use of letter "A" as code B1 at C3 Address code, so as to emulate NAVTEX service, has not been requested to IMO yet). Furthermore, warnings inside messages became shown in a decreasing numerical sequence and divided in accordance with areas of interest (North, East, South, Amazon Basin Foreign or General).

6. Capacity Building:

Nothing to report.

7. Other Activities:

Nothing to report.

8. NAVAREA V Website

www.mar.mil.br/dhn/dhn/index.html

More details on INTERNET services of NAVAREA V warnings, as well as of other Maritime Safety Information are presented in the Annex A.

9. Contact Information:

NAVAREA V (BRAZIL) contact info:

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10. Recommendations:

The Commission is invited to note this report.

11. Actions required:

The CPRNW is requested to give NAVAREA V Co-ordinator orientations on how to proceed so as to request the IMO to allocate the B1 code as depicted in 4.2 item, letter b).

ANNEX A

ISSUE OF MARITIME SAFETY INFORMATION (Navigational Warnings, SAR Information and Meteorological Information)

A) TRANSMISSIONS VIA RADIO (HF BAND) – BRAZILIAN NAVY'S RADIO STATION IN RIO DE JANEIRO				
SERVICES	SCHEDULES (DAILY)	CHANNELS (*)	FREQUENCIES	CONTENTS
NAVIGATIONAL WARNINGS AND SAR INFORMATION	0400-0445Z	RI	4.266,0 KHz (on demand of mariner)	- NAVAREA, Coastal Warnings, except those already published in Notices to Mariners, and SAR Information (Portuguese/English) - Local Warnings, except those already published in Notices to Mariners, and SAR information (Portuguese).
	1430-1530Z	RD		
	2130-2215Z	RI		
METEOROLOGICAL BULLETINS	0230-0330Z	RD	8.580,0 KHz	- Meteorological Forecasts (Portuguese/English) - Meteorological Warnings (Portuguese/English)
	0600-0730Z	RI	12.709,0 KHz	
	1845-1930Z		16.974,0 KHz	
METEOROLOGICAL CHARTS	0745-0925Z	RS	12.665,0 KHz	- Analysis of atmospheric pressure on surface - Height and direction of waves - Wind at 10m above surface - Sea surface temperature
	1630-1810Z		16.978,0 KHz	
B) TRANSMISSIONS VIA RÁDIO (VHF E HF BANDS) – COASTAL STATIONS NATIONAL NET (RENEC) OF EMBRATEL				
SERVICES	SCHEDULES	CHANNELS (*)	FREQUENCIES	CONTENTS
METEOROLOGICAL BULLETINS, NAVIGATIONAL WARNINGS AND SAR INFORMATION	on demand of mariner	RL	HF: 4.125,0 KHz	- Meteorological Forecast - Meteorological Warnings - NAVAREA, Coastal and Local Warnings
METEOROLOGICAL WARNINGS, NAVIGATIONAL WARNINGS AND SAR INFORMATION	as necessary		VHF: 156,8 MHz (16) and traffic channels.	- Meteorological Warnings - Urgent NAVAREA, Coastal and Local Warnings
C) TRANSMISSIONS VIA SATÉLITE (INMARSAT-C) – TANGUÁ RADIO STATION OF EMBRATEL				
SERVICES	SCHEDULES (DAILY)	SATELLITE	CONTENTS	
NAVIGATIONAL WARNINGS AND SAR INFORMATION	0400Z e 1230Z Or as necessary	East Atlantic (AOR-E)	- SAR Information (English) - NAVAREA and Coastal Warnings (English), except those already published in Notices to Mariners.	
METEOROLOGICAL BULLETINS	0730Z e 1930Z or as necessary		- Meteorological Forecasts (English) - Meteorological Warnings (English)	
D) INTERNET				
SERVICES	Sites and links		CONTENTS	
NAVIGATIONAL WARNINGS AND SAR INFORMATION	www.mar.mil.br/dhn/chm/avgantes/avgante.htm (choose the link of region of interest)		NAVAREA, Coastal and Local Warnings (Portuguese)	
	www.mar.mil.br/dhn/chm/avgantes/english/index.htm (choose the link of region of interest)		NAVAREA and Coastal Warnings (English)	
NOTICES TO MARINERS (**)	www.mar.mil.br/dhn/chm/avgantes/folheto/pdf.htm (choose the link of NT of interest)		- In Section II of NT: NAVAREA, Coastal and Local Warnings (Portuguese) in force more than 6 weeks.	
	www.mar.mil.br/dhn/chm/avgantes/english/pdfing.htm (choose the link of NT of interest)		- In Section VII of NT: NAVAREA and Coastal 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) www.mar.mil.br/dhn/chm/meteo/indexing.htm (choose the link "bulletins" – in English)		- Meteorological Forecasts (Portuguese/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) www.mar.mil.br/dhn/chm/meteo/indexing.htm (choose the link "severe weather warnings" – in English)		- Meteorological Warnings (Portuguese/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.	

(*) RI: Radio-telex; RD: Radio Data; RS: Radio facsimile; RL: Radiotelephone.

(**)SAR (search and rescue) Information and 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 Notices to Mariners.

Map with NAVAREA/METARIA V and their respective inside areas.

