

## MSI Assessment for NAVAREA V

Reporting period from 1<sup>st</sup> Jan 2023 to 31<sup>th</sup> December 2023

Submitted by BRAZIL

### SUMMARY

Executive Summary: Overview of activities undertaken within NAVAREA V

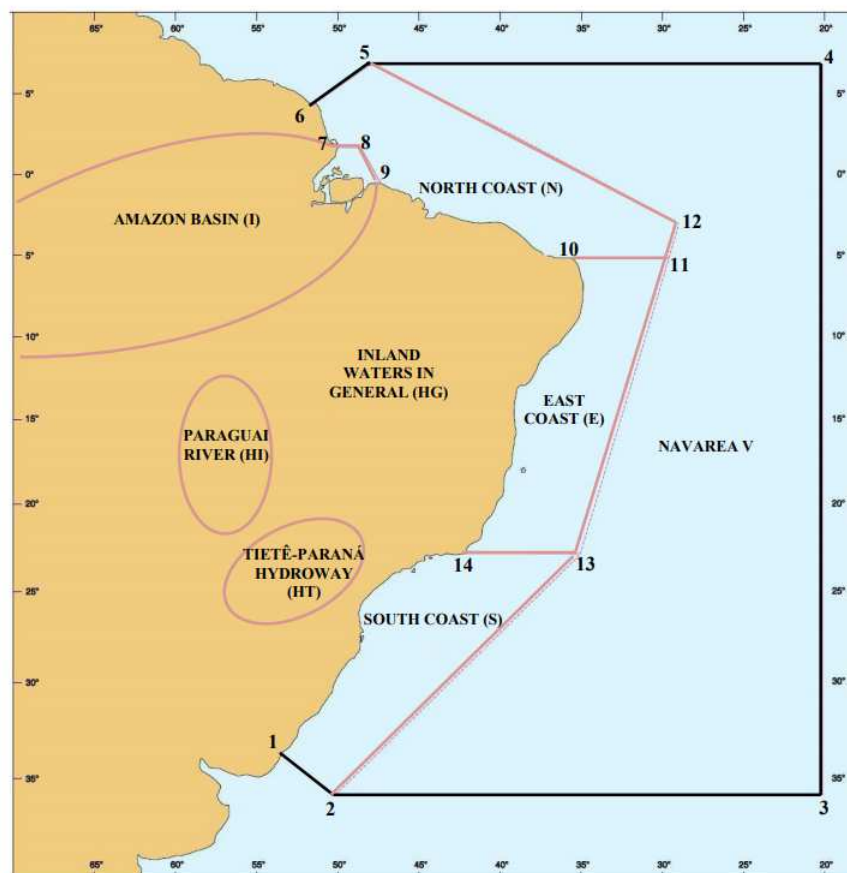
Action to be taken: *See paragraph 12*

Related documents: None

#### 1. General information:

##### 1.1. Geographic Boundaries of the NAVAREA including boundaries for any coastal warning Areas and NAVTEX Stations

NAVAREA V is limited by the coast of Brazil, by the parallels of 07°00'N and 35°50'S, by the meridian of 020°W. Brazilian jurisdictional waters border France (French Guiana) to the north and Uruguay to the south.



The previous figure shows NAVAREA V, Coastal Regions and Inland Waters, for classification and identification of navigational warnings.

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

Point	Latitude	Longitude
1	33° 45' S	053° 22' W
2	35° 50' S	050° 10' W
3	35° 50' S	020° 00' W
4	07° 00' N	020° 00' W
5	07° 00' N	049° 28' W
6	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)<sup>1</sup>

Point	Latitude	Longitude
7	01° 40' N	049° 55' W
8	01° 40' N	048° 35' W
9	00° 37' S	047° 22' W

NORTH COAST (N)

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

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

EAST COAST (E)

Point	Latitude	Longitude
10	05° 10' S	035° 29' W
11	05° 10' S	029° 33' W
13	23° 01' S	035° 00' W
14	23° 01' S	042° 00' W

SOUTH COAST (S)

Point	Latitude	Longitude
1	33° 45' S	053° 22' W
2	35° 50' S	050° 10' W
13	23° 01' S	035° 00' W
14	23° 01' S	042° 00' W

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

COUNTRY	INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
BRAZIL	Directorate of Hydrography and Navigation	+55 21 2189-3248	-	<a href="mailto:avradio@marinha.mil.br">avradio@marinha.mil.br</a> <a href="mailto:ana.silva@marinha.mil.br">ana.silva@marinha.mil.br</a>

1.3. GMDSS Master Plan:

There are no new updates on the GMDSS.

2. NAVAREA EGC broadcast and monitoring equipment or software:

2.1. Details of EGC services:

NAVAREA V promulgates all navigational warnings, except for local warnings, via Inmarsat over the AOR-E satellite at 00:30 and 12:30 UTC daily.

Broadcast Equipment/Software	Broad cast schedule/Satellite	Manufacturer/Location (LES)/Implementation
SafetyNET II web interface	0030 and 1230	Inmarsat
Monitoring Equipment/Software		Manufacturer/Software
TT-3026S		Thrane and Thrane / EasyMail 2.02
SafetyNET II web interface		Inmarsat

On June 17, 2024, Brazil received training from Iridium on MSI transmission via the SafetyCast platform. Brazil is currently completing internal administrative procedures to join the EGC service provided by Iridium. If all administrative processes are completed by the end of 2024, MSI transmissions with operational status are scheduled to begin on January 1, 2025.

## 2.2. NAVTEX:

There are no NAVTEX services provided within NAVAREA V.

## 2.3. Other methods of promulgation:

All navigational warnings for NAVAREA V, including Coastal Warnings (in English and Portuguese) and Local Warnings (in Portuguese) in force, are available on the internet, updated at least twice a day. These warnings are also broadcast via high frequency (HF) twice a day, at scheduled times of 0400Z and 2130Z. Warnings in force for more than six (6) weeks are also published in the Notices to Mariners.

## 3. NAVAREA Metrics

### 3.1. Coastal Warnings issued by International NAVTEX or EGC coastal warning area:

Country	NAVTEX station name	B1 Character or Coastal Warning Area	Broadcast schedule times UTC (only for EGC)	2023			
				Total number of warnings broadcast	Number of warnings broadcast with a vital priority (NAVTEX) or urgent priority (EGC)	Total number of warnings broadcast, including repetitions	Broadcast data in megabytes
<i>Brazil</i>	-	<i>I</i>	<i>0030 and 1230</i>	<i>25</i>	<i>0</i>	<i>644</i>	-
	-	<i>N</i>		<i>74</i>	<i>0</i>	<i>1452</i>	-
	-	<i>E</i>		<i>280</i>	<i>0</i>	<i>3672</i>	-
	-	<i>S</i>		<i>386</i>	<i>0</i>	<i>4250</i>	-

### 3.2. NAVAREA Warnings broadcasts:

Provider	2022		2023	
	Total number of warnings broadcast	Total number of warnings broadcast, including repetitions	Total number of warnings broadcast	Total number of warnings broadcast, including repetitions
<i>SafetyNet</i>	<i>634</i>	<i>4997</i>	<i>587</i>	<i>6116</i>
<i>SafetyCast</i>	-	-	-	-

### 3.3. Urgent EGC Warnings:

None.

3.4. VITAL Coastal Warnings:

None.

3.5. In-force warnings.

3.5.1. In-force bulletins issued:

NAVAREA V issues every Wednesday an “in force” warning bulletin. Warnings older than 42 days are also published in the Notices to Mariners.

3.5.2. Requests for In-force warnings:

<b>2022</b>	<b>2023</b>
Total	Total
13	41

3.6. Arctic navigational warnings broadcast by HF NBDP.

Not applicable.

4. Operational Issues:

No operational issues were encountered within NAVAREA V in the year 2023.

5. National Co-ordinator Communication:

5.1. IRCC Strategic Performance Indicator:

Not applicable.

5.2. Procedures.

Not applicable.

6. Contingency Planning:

In 2016, the Directorate of Hydrography and Navigation (Diretoria de Hidrografia e Navegação), responsible for NAVAREA V, and the Hydrographic Naval Service (Servicio de Hidrografia Naval), responsible for NAVAREA VI, established a contingency plan to take over MSI transmissions in the event of an unexpected interruption by one of the NAVAREAs. Twice a year, both NAVAREAs conduct an exercise to execute the contingency plan. In 2024, the exercise was conducted in February with satisfactory results. We are beginning to develop a new contingency plan that involves the transmission of the ISM by the other RMSS.

7. S-124 Navigational Warnings Development:

None.

8. Capacity Building:

Not applicable.

9. Other Activities:

The DHN participated in IHO and IMO Working Groups, Regional Hydrographic Commissions, and regional conferences in 2023, both in-person and virtually.

10. NAVAREA Website:

Website URL: <https://www.marinha.mil.br/chm/dados-do-segnav-aviso-radio-nautico-tela>

Update frequency: twice a day. We display the date and time of the last update on our website.

11. NAVAREA Contact Information:

Lieutenant Commander Ana Emília de Souza Silva  
Tel: +55 (21) 2189-3248  
E-mails: [ana.silva@marinha.mil.br](mailto:ana.silva@marinha.mil.br) or [avradio@marinha.mil.br](mailto:avradio@marinha.mil.br)

12. Recommendations:

The Sub-Committee is invited to note the report.

13. Actions requested:

Note the information provided.

14. Summary:

NAVAREA V transmits MSI at scheduled times via Inmarsat's EGC service, the Internet, and high frequency. A new contingency plan is being developed between the NAVAREA V and NAVAREA VI for ISM transmission through other RMSS. Brazil aims to complete internal administrative procedures to join Iridium's EGC service by the end of 2024; if successful, operational MSI transmissions are expected to start on January 1, 2025.

Annex(es):

None.