

## MSI Self Assessment NAVAREA XV - Chile

Submitted by Chile

### SUMMARY

Executive Summary: Overview of activities undertaken within NAVAREA XV since WWNWS-9

Action to be taken: See Paragraph 12

- Broadcasting of cancellation messages and serialization of In-Force Bulletin Notices Validate
- Master Plan SafetyNET information provided for Annex 8

Related documents: None

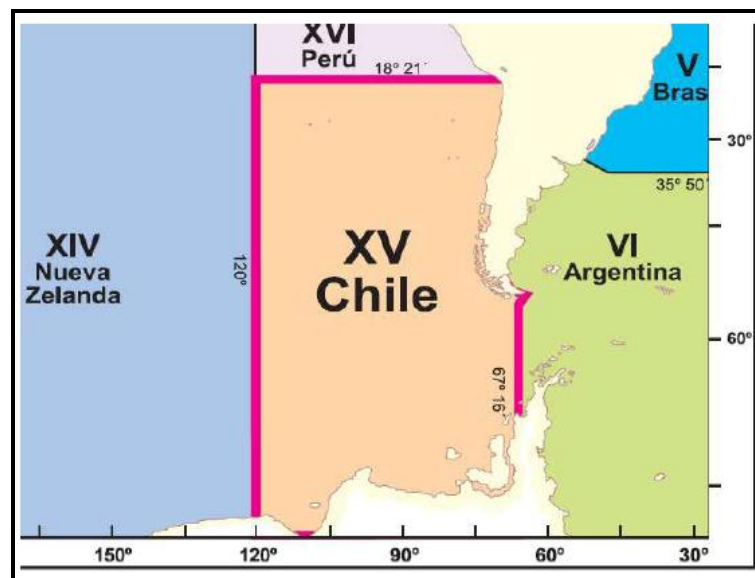
The NAVAREA XV limits are:

By the North: Parallel  $18^{\circ} 21' S$ .

By the South: The Antarctic Continent Coasts.

By the East: Chilean coast and the meridian  $67^{\circ} 16' W$ .

By the West: Meridian  $120^{\circ} W$ .



The Hydrographic and Oceanographic Service of the Chilean Navy (SHOA), is the NAVAREA XV Coordinator and National Radio Navigational Warning System Coordinator, assuming the responsibilities assigned by the Joint IHO / IMO / WMO Manual on MSI, there being no other Authority in Chile in charge of these issues.

The Meteorological Service of the Chilean Navy is constituted as the Coordinator of METAREA XV.

The Maritime Territory and Merchant Marine General Directorate (DIRECTEMAR) is the only Chilean authority authorized to participate as an information provider in the International SafetyNET service, which delegates this role to the Maritime Radio Station of Valparaíso Playa Ancha, Radio / CBV / MMSI 007251860, which concentrates and processes all the Information on Maritime Safety (MSI) and SAR, for its broadcasting through the SafetyNET system. Valparaíso Playa Ancha Radio also fulfills the role of NAVTEX Coordinator.

The schedule broadcasts per day are:

No	Type of information.	UTC Time
1	<b>NAVAREA Warnings</b>	02:10 14:10
2	<b>Coastal Warnings</b> Whenever it becomes necessary to use the SafetyNET service to replace a decommissioned NAVTEX station.	04:00 12:00 20:00
3	<b>Meteorological Information</b> (forecasts information)	01:00 03:45 13:30 14:50 18:45
4	<b>Meteorological Warnings, SAR Information, Tsunamis and other natural phenomena.</b>	If there are.

Operational Points of Contact for National Coordinators within the NAVAREA

COUNTRY	INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
Chile-Valparaíso	SHOA	+56-322266541	+56-322266542	navareaxv@shoa.cl
Chile-Valparaíso	SHOA	+56-322266622	+56-322266542	navareaxv@shoa.cl

## 2. Comments:

GMDSS Master Plan, Annex 8 "International SafetyNET Service" has been updated, in compliance with Migration of Inmarsat GMDSS services from I-3 satellites over to the I-4 satellites (as of May 9, 2018), Valparaíso Playa Ancha Radio broadcasts the information for the SafetyNET Service, through satellite I-4 (AMER). Updated Annex 8 is provided as Annex A of this MSI Self-Assessment.

In order to harmonize the broadcasting schedule of Valparaíso Playa Ancha Radio, the broadcasting schedule of the Meteorological Information corresponding to Zone IX, from 14:40 to 14:50 UTC, has been modified. With the modifications indicated, the information provided in Annex 8 GMDSS Master Plan is validated.

Specifics of equipment used and software version with date up-dated:

<b>Equipment Type</b>	<b>Software Version</b>	<b>Date of Up-date</b>
NAVTEX	Sender v 2008	Original
SafetyNET	Marlink	2016

NAVAREA Warnings Promulgated

<b>NAVAREA XV</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
SafetyNET	138	342	257	291	99
NAVTEX	780	582	454	339	252

(\* Up to July 24, 2018 – NAVTEX English+Spanish)

Information and Data Received

<b>2016</b>				<b>2017</b>				<b>2018</b>			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
25	No data	No data	No data	77	No data	No data	No data	05	No data	No data	No data

(\* Up to July 24, 2018)

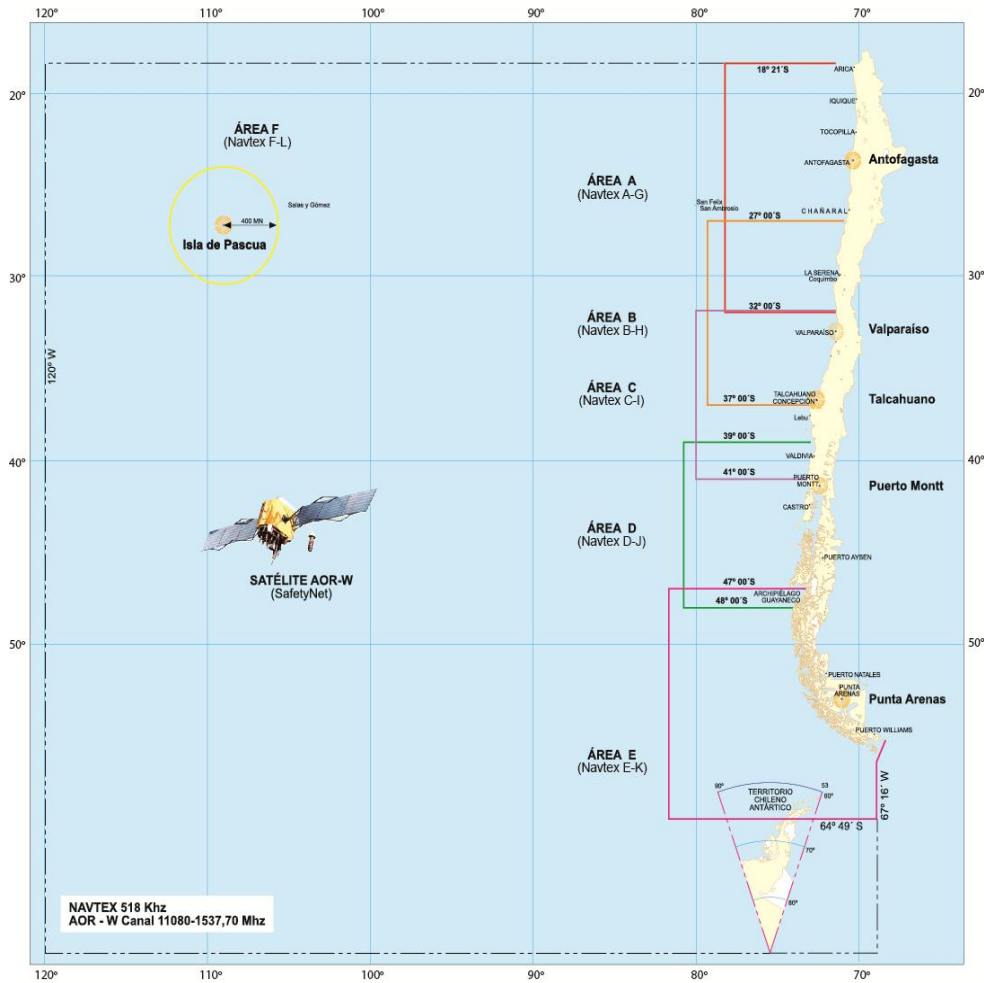
Detail the number of NAVAREA warnings identified as immediate priority (requiring transmission within 30 minutes) and the average elapsed time per broadcast via SafetyNET:

<b>2016</b>		<b>2017</b>		<b>2018</b>	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
3	<b>SAFETYNET</b> Distress 3 Urgency 0	No data	Did not track	No data*	Did not track
3	<b>NAVTEX</b> Vital 3 Important 0	No data	Did not track	No data*	Did not track

(\*Up to July 24, 2018)

### 3. NAVTEX Coverage:

Diagram of NAVTEX stations and service areas within NAVAREA XV



#### Contact details for NAVTEX Stations

##### **ANTOFAGASTA ZONAL RADIO (Area A)**

TEF : +56 55 2630072 – +56 55 2630000

FAX : +56 55 2224464

E-mail: cbaradio@directemar.cl

##### **VALPARAÍSO PLAYA ANCHA RADIO (Area B)**

TEF : +56 32 2208974 – +56 32 2208961

FAX : +56 32 2281099

E-mail: cbvradio@directemar.cl

##### **ISLA DE PASCUA RADIO (Area F)**

(TEMPORARILY OFF AIR)

TEF : +56 32 2100222

FAX : none

E-mail: cbyradio@directemar.cl

Temporaly off air, Playa Ancha Radio/CBV MMSI 007251860, assumes diffusions NAVTEX System

**TALCAHUANO ZONAL RADIO (Area C)**

TEF : +56 41 2541645 – +56 41 2541100

FAX : +56 41 2541634

E-mail: cbtradio@directemar.cl

**PUERTO MONTT ZONAL RADIO (Area D)**

TEF : +56 65 256828

FAX : +56 65 256827

E-mail: cbpradio@directemar.cl

**MAGALLANES ZONAL RADIO (Area E)**

TEF : +56 61 2201170 – +56 61 2201100

FAX : +56 61 2201196

E-mail: cbmradio@directemar.cl

4. Operational Issues:

4.1 From 1<sup>st</sup> January 2016, 490 Khz NAVTEX is being operated in Spanish language.

**NAVTEX ENGLISH LANGUAGE 518 KHZ.:**

<b>COASTAL STATION</b>	<b>TIME BROADCAST (UTC)</b>
ANTOFAGASTA RADIO	04:00; 08:00; 16:00; 20:00
VALPARAÍSO RADIO	04:10; 08:10; 16:10; 20:10
TALCAHUANO RADIO	04:20; 08:20; 16:20; 20:20
PUERTO MONTT RADIO	04:30; 08:30; 16:30; 20:30
MAGALLANES RADIO	04:40; 08:40; 16:40; 20:40
ISLA DE PASCUA RADIO	04:50; 08:50; 16:50; 20:50

**NAVTEX SPANISH LANGUAGE 490 KHZ.:**

<b>COASTAL STATION</b>	<b>TIME BROADCAST (UTC)</b>
ANTOFAGASTA RADIO	05:00; 09:00; 17:00; 21:00
VALPARAÍSO RADIO	05:10; 09:10; 17:10; 21:10
TALCAHUANO RADIO	05:20; 09:20; 17:20; 21:20
PUERTO MONTT RADIO	05:30; 09:30; 17:30; 21:30
MAGALLANES RADIO	05:40; 09:40; 17:40; 21:40
ISLA DE PASCUA RADIO	05:50; 09:50; 17:50; 21:50

4.2 In force warnings bulletins

NAVAREA XV warnings are posted in the website [www.shoa.mil.cl](http://www.shoa.mil.cl) in both, English and Spanish language. Bulletins are updated twice a day and can be requested by e-mail to [navareaxv@shoa.cl](mailto:navareaxv@shoa.cl) .

#### 4.3 Notices to mariners

In the Notice to Mariners, section II, a compilation of the long lasting in-force notices is provided in the bulletins posted in the website [www.shoa.mil.cl](http://www.shoa.mil.cl) (Products/Boletines).

#### 5. Quality Management Survey

NAVAR EA	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
NAVAR EA XV	YES	YES	YES	YES	YES	YES	YES

#### 6. Contingency Planning

The WNWWS-SC has motivated all NAVAREAS coordinators to develop a Contingency Plan, and particularly has requested the Coordinators of NAVAREA XV (Chile) and NAVAREA XVI (Peru) to coordinate the preparation of such Contingency Plan.

A Draft Contingency Plan was prepared by NAVAREA XV Coordinator in conformity of regulation 12.2, Chapter IV of SOLAS, due to the importance to keep the transmission service for the Marine Safety Information (MSI) emissions, in case of natural hazards or other phenomena could affect the transmission operation for the geographic area covered by NAVAREA XV or NAVAREA XVI aiming at ensuring the emission of MSI for the above-mentioned areas, through the SafetyNET transmission system.

The format and content of messages follows the guidance given in the Manual on Maritime Safety Information – OHI publication 53 (January 2016 edition) in order that the information by NAVAREA coordinators to a maritime safety messages be as simple as possible.

The Draft Contingency Plan prepared will be handled to the WNWWS-SC Chair, at the WNWWS SC 10<sup>th</sup> Meeting.

#### 7. Capacity Building:

The Maritime General Directorate of Colombia (DIMAR) requested SHOA the provision of a short MSI Course. SHOA prepared a programme based on the IHO standard MSI Short Course, developed and delivered by the WNWWS-SC in previous years by known specialists.

The Course will be delivered at SHOA, in Valparaiso, on 29/31 August for 7 personnel from DIMAR and CIOH. The outcome and experience gathered during this event will be shared at the WNWWS-SC 10th Meeting.

8. Other Activities:

**Migration of Inmarsat GMDSS services from I-3 satellites over to the I-4 satellites**

Inmarsat notified the IMO Sub-Committee on Navigation, Communications and Search and Rescue (NCSR), at its fifth session from 19 to 23 February 2018, that they have developed a plan to migrate mobile satellite communication services. This plan includes the Inmarsat-C, SafetyNET, and Fleet 77 services, from the primary Inmarsat-3 satellites over to the Inmarsat-4 satellites within 2018.

Accordingly, it is pointed out that the satellite change that affected our broadcasting service was completed on May 9 (Phase I), without any inconvenience. On that occasion, I3 (AORW) was migrated from satellite I4 (AMER), this information was updated in the contents of the GMDSS Master Plan, Annex 8.

It is also inform that Safety Services Manager Maritime, Dana Jongens, made contact with SHOA to offer a modernization of the SafetyNET to SafetyNET II Service, indicating that the advantages of the new system and the migration of I-3 to I-4 of this year will not have any impact on SafetyNET II to successfully transmit EGC messages. The acquisition of this service will be considered soon.

**UNESCO/IOC Tsunami Program - Tsunami Service Provider Messages for the Maritime Community**

Since 1966, the SHOA has operated the National Tsunami Warning System (SNAM) and officially represents the State of Chile at the International Tsunami Warning System of the Pacific, whose center of operations is the Pacific Tsunami Warning Center (PTWC) located in Hawaii.

SNAM evaluates tsunami threat information and sends message to NAVAREA XV. The NAVAREA XV Coordinator transmits maritime safety message (the format and content of the messages follow the Maritime Safety Information Manual - IHO 53 Publication). The Maritime Safety Information is retransmitted from the radio station maritime Valparaíso Playa Ancha Radio by NAVTEX system in the stipulated frequencies and NAVAREA by satellite SafetyNET system.

The Broadcasting Priorities of NAVTEX and SafetyNET Service:

NAVTEX Service	SafetyNET Service
IMPORTANT	URGENCY
VITAL	DISTRESS

A standardize proposed message format and content is currently under development with the active participation of SHOA and will be discussed and hopefully agreed at the WWNWS 10<sup>th</sup> Meeting, for its implementation.

9. NAVAREA Website:

NAVAREA XV publishes Notices to Mariners on the web site [www.shoa.mil.cl](http://www.shoa.mil.cl), in the link “radioavisos”. The website is compatible with all Android and Apple mobile elements, and is updated daily.



SHOA Website



NAVAREA Website

10. NAVAREA XV Contact Information:

**NAVAREA XV**

Hydrographic and Oceanographic  
Service of the Chilean Navy

Address: Errazuriz 254, Playa Ancha, Valparaíso (Chile)

Tel: +56 32 2266666

Fax: +56 32 2266542

E-mail: [navareaxv@shoa.cl](mailto:navareaxv@shoa.cl)

P.O.: 237-0168

Web site: <http://www.shoa.mil.cl>.

11. Recommendations:

Nil

12. Actions requested:

Broadcasting of cancellation messages and serialization of In-Force Bulletin Notices  
The cancellation of notices and serialization of the current notices is carried out in accordance with the provisions of the International Maritime Organization (IMO) of Nov. 21, 2014.



As a general rule, the current notices are transmitted once a week on Tuesdays at a regular time (14:00 UTC), during a period of six weeks if these are in force, and are part of the numbered series of radio navigational warnings and are transmitted as a numbered individual message while these remain in effect during the week.

All current notices, including those that are more than six weeks old, are published on the website [www.shoa.mil.cl/php/radioavisos.php](http://www.shoa.mil.cl/php/radioavisos.php), for the information of navigators. This web page is updated daily.

The format and content of in force and cancellation messages follow the guidance given in the Manual on Maritime Safety Information – OHI Publication S-53 (January 2016 edition).

Examples:

NAVAREA XV 0046  
CHILEAN ANTARCTIC TERRITORY.  
BAHÍA HANUSSE.  
CHART No 16000.  
ISLA DETAILLE DAY BEACON IN: LAT. 66° 52' 12"S. LONG. 66° 47' 50"W.,  
DESTROYED.

NAVAREA XV – SAFETYNET  
SAFETY  
ADD THE FOLLOWING NOTICE:  
CANCEL NAVAREA XV 0046/16 AND THIS MSG.

NAVAREA XV – SAFETYNET No 206.  
DATE: 01/AUG/2016  
B.- MESSAGES REISSUED AS NOTICES TO MARINERS:  
YEAR 2016  
0046/16.

August/ 2016 Bulletin

63T-2016 Chilean Antarctic Territory, updating day beacon.

Paper Nautical chart No 16000.  
Insert with graphite pencil, the legend "DESTROYED", into day beacon in Detaille Island, Located in: Lat. 66° 52'12"S. Long. 66° 47' 50"W.

Validate Master Plan SafetyNET information provided for Annex 8

In point 2 of the MSI Self Assessment NAVAREA, "Comments", it is indicated that information of Annex 8 was updated, as of May 9, 2018. Valparaiso Playa Ancha Radio transmits the information for the SafetyNET Service, through satellite I -4 (AMER) instead of I-3 satellite (AOR-W) which was used before.

Under the provisions of the IMO/IHO/WMO Joint Manual on Maritime Safety Information, paragraph 2.4.1.3: "At least two transmissions will be necessary to adequately broadcast the NAVAREA warnings. When the SafetyNET service is used instead of the NAVTEX service to transmit coastal warnings, Administrations may need to consider increasing the number of scheduled daily transmissions compared to that stipulated for the NAVAREA warnings "; the times of 04:00, 12:00 and 20:00 UTC have been adopted to broadcast coastal warnings in replacement of those radio stations that are unable to comply with their NAVTEX broadcasting schedule.

In addition, in order to harmonize the broadcasting schedule of Valparaiso Playa Ancha Radio, the broadcasting schedule of the Meteorological Information corresponding to Area 9, from 14:40 to 14:50 UTC, has been modified (everything indicated is updated in GMDSS Master Plan)

13. Summary:

SHOA, besides the Notice to Mariners, published monthly, on a daily basis informs on urgent and important notices affecting safety of navigation, such as alterations or errors in the maritime signs, report of new rocks or dangers or any other information that need to be known immediately to the vessels at sea, only if that information hasn't been announced earlier on any other written media (Notice to Mariners, new edition of charts, etc.)

This service is integrated to the "World Wide Navigational Warning Service", of which Chile is responsible.

Notice to Mariners and Coastal Warnings for NAVAREA XV are prepared by SHOA and broadcasted daily through maritime radio station Valparaiso Playa Ancha Radio, at different times of scheduled broadcasting.

ANNEX A  
 UPDATED ANNEX 8 OF THE GMDSS MASTER PLAN

**ANNEX 8**

**International SafetyNET service**

1. Does your Administration broadcast MSI through the International SafetyNET service?  
 Is it operational now? Yes  No   
 If not operational now, indicate the date of operation in the following table.

2. Indicate details of international SafetyNET service.

NAV/MET Area	Type of information	Country	LES/LES O	Ocean Region/LES ID	MSI Coastal Warning Area <sup>(1)</sup> (if applicable)	Broadcast schedule (UTC)	Status of implementation
XV	NAV <sup>2</sup>	Chile*	Southbury	AMER	NAVAREA XV	0210, 1410.	Operacional
	NAV <sup>2</sup>	Chile*	Southbury	AMER	As occasion demands	0400, 1200, 2000.	Operacional
	MET <sup>3</sup>	Chile**	Southbury	AMER	METAREA XV for Area 1 – 8.	0100, 1330.	Operacional
					METAREA XV for Area 9.	1450.	
					METAREA XV for Area 10.	0345, 1845.	
SAR <sup>4</sup>	Chile	Southbury	AMER	Chilean SAR Region	As occasion demands	Operacional	

(1) Provide a diagram showing limits of Coastal Warning Areas, including B1 Codes.

(2) NAV = navigational warnings.

(3) MET = meteorological information.

(4) SAR = search and rescue alerts.

\* = NAVAREA coordinator responsible for the area.

\*\* = The issuing service nominated by WMO for METAREA services, responsible for the area.

**Comments:**

- a.- Column Ocean Region/LES ID: Satellite I-4 (AMER) was adopted 09MAY18. Previously I-3 (AOR-W) was used.
- b.- In order to comply with paragraph 2.4.1.3 of the Join Manual IMO/IHO/WMO relative to MSI, three broadcast schedule have been adopted 04:00, 12:00 and 20:00 UTC to issue coastal warning in replacement of those radio stations which might be impeded to achieve NAVTEX broadcast.
- c.- In order to harmonize the broadcast schedule of Valparaiso Radio, the schedule for broadcasting Zone IX Meteorological Information has been adjusted from 14:40 to 14:50 UTC.