

MSI Self Assessment NAVAREA XV - Chile

Submitted by Chile

SUMMARY

Executive Summary: Overview of activities undertaken within NAVAREA XV since WWNWS 12

- Upgrade Publication OHI C-55 Annex A.
- Upgrade GMDSS Master Plan (Annex 8-1 and 8-2).

1. Background:

1. Background:

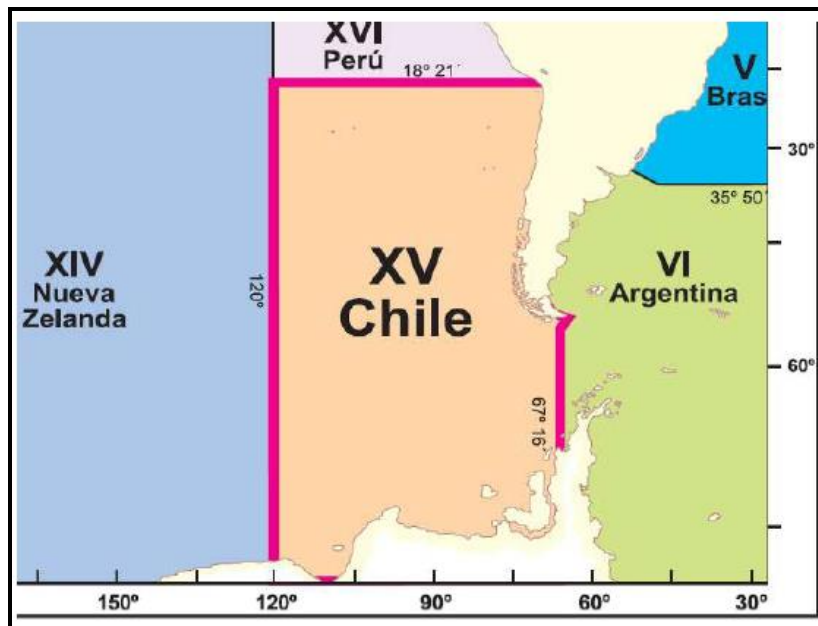
The NAVAREA XV limits are:

By the North: Parallel 18° 21' S.

By the South: The Antarctic Continent Coasts.

By the East: Chilean coast and the meridian 67° 16' W.

By the West: Meridian 120° 00' W.



The Hydrographic and Oceanographic Service of the Chilean Navy (SHOA) is the coordinator of NAVAREA XV and Coordinator of the National Radio Navigational Warning System. Likewise, the Meteorological Service of the Chilean Navy is constituted as Coordinator of METAREA XV; both assume the responsibilities assigned by the Joint IHO / IMO / WMO Manual on MSI.

Both NAVAREA XV and METAREA XV are authorized to transmit navigational warnings through the International Enhanced Group Calling Service (EGC) in accordance with the IMO manual of recognized mobile satellite service providers.

The schedule broadcasts per day are:

No	Type of information.	GMDSS Service Provider	UTC Time
1	NAVAREA Warnings	SafetyNET II	02:10 - 14:10
		SafetyCast	02:00 - 14:00
2	Coastal Warnings Whenever it becomes necessary to use the SafetyNET service to replace a decommissioned NAVTEX station.	SafetyNET II	04:00 - 12:00 20:00
		SafetyCast	02:05 - 10:05 18:05
3	Meteorological Information (forecasts information)	SafetyNET II	01:00 - 03:15 - 03:45 13:30 - 14:50 - 18:45
		SafetyCast	01:35 - 03:00 - 03:50 13:35 - 15:00 - 18:50
4	Meteorological Warnings, SAR Information, Tsunamis and other natural phenomena.	SafetyNET II SafetyCast	If there are.

NAVTEX ENGLISH LANGUAGE 518 KHZ.:

COASTAL STATION	TIME BROADCAST (UTC)
ANTOFAGASTA RADIO	00:00; 04:00; 08:00; 12:00; 16:00; 20:00
VALPARAÍSO RADIO	00:10; 04:10; 08:10; 12:10; 16:10; 20:10
TALCAHUANO RADIO	00:20; 04:20; 08:20; 12:20; 16:20; 20:20
PUERTO MONTT RADIO	00:30; 04:30; 08:30; 12:30; 16:30; 20:30
MAGALLANES RADIO	00:40; 04:40; 08:40; 12:40; 16:40; 20:40
ISLA DE PASCUA RADIO	00:50; 04:50; 08:50; 12:50; 16:50; 20:50

Since 1st January 2016, 490 Khz NAVTEX is being operated in Spanish Language.

NAVTEX SPANISH LANGUAGE 490 KHZ.:

COASTAL STATION	TIME BROADCAST (UTC)
ANTOFAGASTA RADIO	01:00; 05:00; 09:00; 13:00; 17:00; 21:00
VALPARAÍSO RADIO	01:10; 05:10; 09:10; 13:10; 17:10; 21:10
TALCAHUANO RADIO	01:20; 05:20; 09:20; 13:20; 17:20; 21:20
PUERTO MONTT RADIO	01:30; 05:30; 09:30; 13:30; 17:30; 21:30
MAGALLANES RADIO	01:40; 05:40; 09:40; 13:40 ; 17:40; 21:40
ISLA DE PASCUA RADIO	01:50; 05:50; 09:50; 13:50; 17:50; 21:50

Operational Points of Contact for National Coordinators within the NAVAREA

COUNTRY	INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
Chile-Valparaíso	SHOA	+56 32 2266540 +56 32 2266548	+56 32 2266542	navareaxv@shoa.cl

2. Comments:

Specifics equipment and software version with date up-dated:

Equipment Type	Software Version	Date of Up-date
NAVTEX	Sender 2020 v1.0	DIC 2020
EGC	Web Safetynet II - Inmarsat	JUL 2021
	Web SafetyCast - Iridium	NOV 2020

Information and Data Received

2019				2020				2021			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
27	No data	No data	337	24	No data	No data	297	12	No data	No data	204

(Up to Jul 31, 2021)

NAVAREA Warnings Promulgated

NAVAREA XV	2017	2018	2019	2020	2021
EGC	291	179	189	155	139
NAVTEX	339	415	367	297	289

(Up to Jul 31, 2021).

The MSI provision flow for NAVAREA XV is as follow:

- NAVAREA XV receives MSI from the maritime community via e-mail, messages or text documents either from Navy ships or from the National Maritime Authority (DGTM y MM).

- MSI information is reviewed with the support of relevant nautical charts and publications, before a radio warning message is issued.
- NAVAREA XV prepares the text of the radio warning message following the format provided by the IMO-IHO-OMM Manual on Maritime Safety Information-IHO Publication 53.
- The text of the radio warning message is sent by SHOA to Valparaíso Playa Ancha Radio Station (National Coordinator for issuing MSI information).
- MSI information is transmitted by NAVTEX and EGC systems, as appropriate.

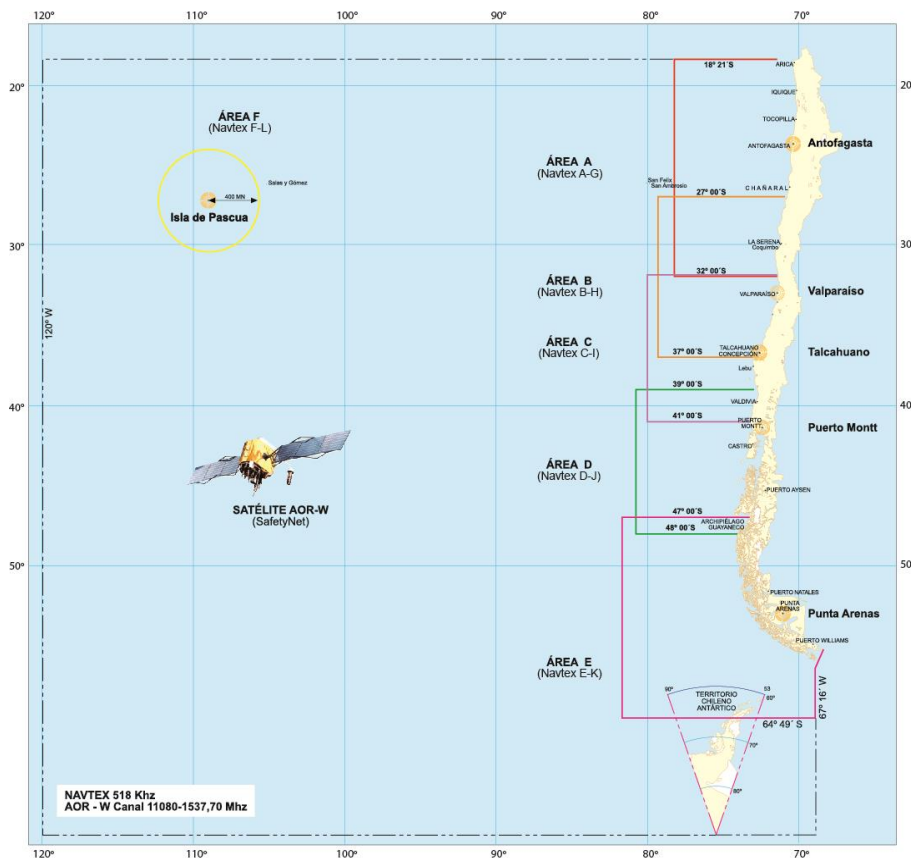
Detail the number of NAVAREA warnings identified as immediate priority (requiring transmission within 30 minutes) and the average elapsed time per broadcast via EGC :

2019		2020		2021	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
No data	Did not track	No data	Did not track	No data	Did not track

(Up to Jul 31, 2021).

3. NAVTEX Coverage:

Diagram of NAVTEX stations and service areas within NAVAREA XV



Contact details for NAVTEX Stations

ANTOFAGASTA ZONAL RADIO (Area A)

TEL: +56 55 2630072 – +56 55 2630000

FAX: None.

E-mail: cbaradio@directemar.cl

VALPARAÍSO PLAYA ANCHA RADIO (Area B)

TEL: +56 32 2208974 – +56 32 2208961

FAX: None.

E-mail: cbvradio@directemar.cl

ISLA DE PASCUA RADIO (Area F)

(TEMPORARILY OFF AIR)

TEL: +56 32 2100222

FAX: none

E-mail: cbyradio@directemar.cl

Temporarily off air, Valparaíso Playa Ancha Radio/CBV MMSI 007251860 assumes diffusions NAVTEX System.

TALCAHUANO ZONAL RADIO (Area C)

TEL: +56 41 2541645 – +56 41 2745734

FAX: None.

E-mail: cbtradio@directemar.cl

PUERTO MONTT ZONAL RADIO (Area D)

TEL: +56 65 2256827 / +56 65 2256828

FAX: None.

E-mail: cbpradio@directemar.cl

MAGALLANES ZONAL RADIO (Area E)

TEL: +56 61 2201100 – +56 61 2201170.

FAX: None.

E-mail: cbmradio@directemar.cl

4. Operational Issues:

Details of MSI information received from coastal states within the NAVAREA XV (Year 2021).

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Antofagasta Radio (Chile)	19	Weapons Drill
	03	Radio Equipment
	01	Lighthouse
	05	Marine Scientific Vessel
	02	Lighted Beacon
	03	Lighted Buoy
	02	Tsunami Threat
	16	Cable Laying
	01	Inoperative AIS-AtoN
	01	Man Overboard
	05	New AIS-AtoN
	01	Sunk Vessel
	27	Towing
01	Empty containers to the Sea	

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Valparaíso Radio (Chile)	59	Weapons Drill
	21	Radio Equipment
	03	Lighthouse
	14	Cable Laying
	02	Lighted Beacon
	02	Lighted Buoy
	01	Empty containers to the Sea
	02	Temporarily Removed Buoy
	10	Marine Scientific Vessel
	03	Buoy Re-established
	02	Tsunami Threat
	34	Towing
	02	New AIS-AtoN
	02	Anchored Buoy
	01	New Alignment

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Talcahuano Radio (Chile)	47	Weapons Drill
	13	Radio Equipment
	03	Lighthouse
	07	Cable Laying
	05	Lighted Beacon
	07	Marine Scientific Vessel
	03	Lighted Buoy
	02	Temporarily Removed Buoy
	35	Towing
	01	Anchored Buoy
	03	Buoy Re-established
	02	Tsunami Threat
	04	New AIS-AtoN
	01	New Alignment
	01	Wreckages Adrift
01	Half Destroyed Day Buoy	

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Puerto Montt Radio (Chile)	02	Cable Laying
	13	Radio Equipment
	20	Lighted Beacon
	08	Lighted Buoy
	02	Weapons Drill
	02	Lighthouse
	04	Marine Scientific Vessel
	02	Tsunami Threat
	02	Day Buoy Re-established
	10	Towing
	05	New Alignment
	01	Lighted Pile
	07	New AIS-AtoN
	02	Snoal Depth Located
	01	Floating Dock Sunk
	03	Ligthed Buoy out of Position
	01	Sand Bank
	02	Lighted Buoy Re-established

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Magallanes Radio (Chile)	29	Lighted Beacon
	13	Lighted Buoy
	07	Radio Equipment
	08	Day Buoy
	03	Day Beacon
	04	Lighthouse
	02	Tsunami Threat
	06	Buoy Re-established
	01	Towing
	02	Pillar Lighted
	03	Pillar Buoy Lighted
	02	Lighted Pile
	02	Snoal Depth Located
	11	Inoperative AIS-AtoN
	06	New AIS-AtoN
	01	Ice Adrift
	01	Current Meter
	02	Racon Inoperative
	01	Sunk Vessel
	01	New Lighted Beacon Alignment
02	Lighted Beacon Alignment out of Position	
02	Adrift Vessel	
01	Grounded Vessel	

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Isla de Pascua Radio (Chile)	02	Tsunami Threat
	01	Radio Equipment
	01	Alignment Unlit

4.1 In force warnings bulletins

NAVAREA XV warnings are posted in the website www.shoa.cl in both, English and Spanish language. Bulletins are updated twice a day and can be requested by e-mail to navareaxv@shoa.cl.

4.2 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.cl (Products/Bulletins).

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
NAVAREA XV	YES	YES	YES	YES	YES	YES	YES

Signal Transmission Monitoring in near real time:

- In relation to the Monitoring of the signals, coastal stations conduct verification of their transmission and analyze the quality of the signals using JVCOM Software.
- Signal Transmission Monitoring Method:
 - NAVTEX transmissions use JVCOMM32 software and JRC mod. NCR- 333 for reception.
 - SAFETYNET II transmissions use DOS NERA MINIC software with Satellite INMARSAT MINIC receiver.
 - Safetycast: there is no method for monitoring the transmission.
- NAVTEX and SAFETYNET transmission equipment have a 100% efficiency.

Broadcasting Times MSI NAVAREA XV specifications are in line with the Global Performance Report submitted by SHOA to the Ministry of Defense in Annex 4 - Performance Indicators 2015-2018, which can be consulted in <http://www.shoa.cl/php/balance.php?idioma=en>.

6. Contingency Planning

The WNWWS SC encouraged all NAVAREAS to coordinate a Contingency Plan. The year 2018, at the WNWWS-10 meeting, NAVAREA XV (Chile) submitted a Contingency Plan which contemplates collaboration with NAVAREA XVI (Perú).

The Contingency Plan considers the occurrence of failure at any Radio Station from the respective areas of jurisdictional responsibility belonging to the adjacent NAVAREAS XV and XVI. There is no record of any comment or observation received from NAVAREA XVI.

There have been no exercises related to the Contingency Plan.

7. Capacity Building:

Nil.

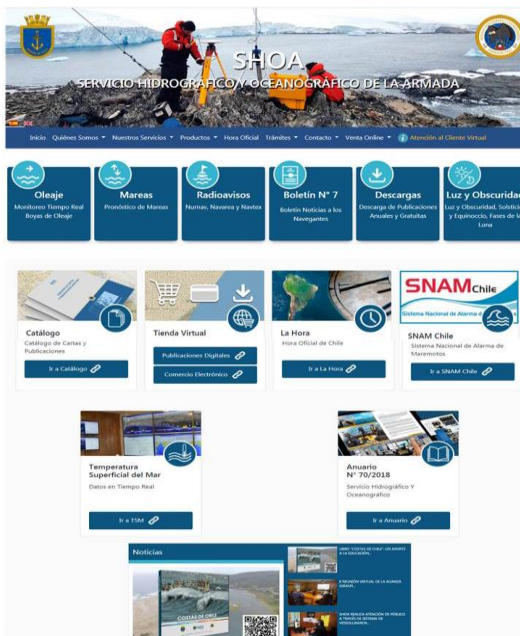
8. Other Activities:

Iridium SafetyCastSM GMDSS service

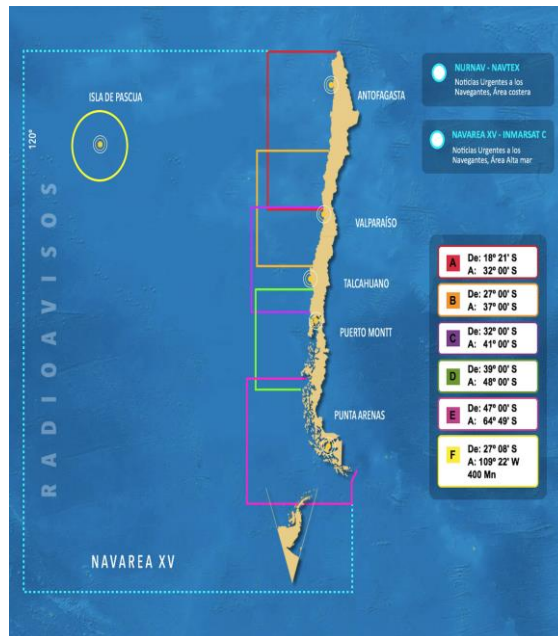
On September 23, 2020, the General Directorate of the Maritime Territory and Merchant Marine (DGTM y MM), signed an agreement with Iridium for the free operation of the SafetyCast platform. In accordance with the aforementioned agreement, on November 1, 2020, the transmission of ISM began on the SafetyCast platform.

9. NAVAREA Website:

NAVAREA XV publishes Notices to Mariners on the web site 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 2266540

Fax: +56 32 2266542

E-mail: navareaxv@shoa.cl

P.O. 237-0168

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

11. Recommendations:

Nil

12. Actions requested:

Nil

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 for NAVAREA XV.

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
UPGRADE PUBLICATION OHI C-55**

Chile (C2)

Hydrographic surveying / Levés hydrographiques / Levantamientos hidrográficos

Survey coverage Couverture hydrographique Cobertura hidrográfica	Depth < 200m Profondeur < 200m Profundidad < 200m			Depth > 200m Profondeur > 200m Profundidad > 200m		
	<p>Adequately surveyed █ Correctement hydrographié Adecuadamente levantado</p> <p>Re-survey required █ Nécessitant de nouveaux levés Requiere nuevo levantamiento</p> <p>Never systematically surveyed █ Jamais hydrographié systématiquement Nunca levantado sistemáticamente</p>	27	18	55	10	10
Notes Notes Notas						

Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

GMDSS implementation Mise en œuvre du SMDSM Implementación SMSSM	Status Status Estado	Notes Notes Notas
Master plan Plan cadre Plan principal	YES	
A1 area Zone A1 Zona A1	YES	
A2 area Zone A2 Zona A2	YES	
A3 area Zone A3 Zona A3	YES	
NAVTEX NAVTEX NAVTEX	YES	
Safety NET Safety NET Safety NET	YES	

Chile (C2)

Nautical charting / Cartographie marine / Cartografía náutica

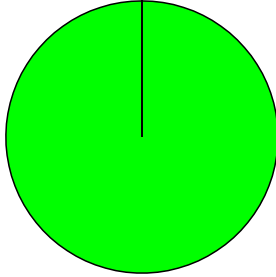
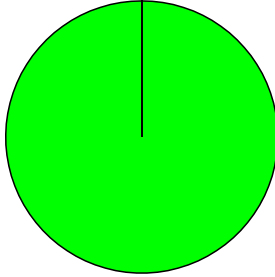
Coverage of charts published Couverture des cartes publiées Cobertura de cartas publicadas		Offshore passage Navigation au large Pasaje offshore			Landfall and Coastal passage Atterrissage et navigation côtière Recalada y Pasaje costero			Approaches and Ports Approches et ports Aproches y puertos		
<p>% Covered by INT or other paper charts meeting S-4 Couvert par des cartes papier INT ou autres conformes S-4 Cubiertas por cartas de papel INT o otras cumpliendo S-4</p> <p>% Covered by RNC meeting S-61 Couvert par des RNC conformes S-61 Cubiertas por RNC cumpliendo S-61</p> <p>% Covered by ENC meeting S-57 Couvert par des ENC conformes S-57 Cubiertas por ENC cumpliendo S-57</p>	8	8	16	18	0	42	74	0	42	
Paper charts showing depth in meters Cartes papier avec les profondeurs en mètres Cartas de papel con profundidades en metros		Paper charts referenced to a satellite datum Cartes papier rapportées à un système géodésique satellitaire Cartas de papel referidas a un datum satelital			Data source Source des données Origen de los datos					
Notes Notes Notas	Main deficiencies in coverage arise from lack of source data to update old charts.									

Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

Navigation information Informations nautiques Información nautical	Status Status Estado	Notes Notes Notas
Local warnings Avertissements locaux Avisos locales	YES	
Coastal warnings Avertissements côtiers Avisos costeros	YES	
NAVAREA warnings Avertissements NAVAREA Avisos NAVAREA	YES	
Information on ports and harbours Information sur les ports et rades Información sobre puertos	YES	

Chile - Easter I & Sala y-Gomez (C2)

Hydrographic surveying / Levés hydrographiques / Levantamientos hidrográficos

Survey coverage Couverture hydrographique Cobertura hidrográfica		Depth < 200m Profondeur < 200m Profundidad < 200m			Depth > 200m Profondeur > 200m Profundidad > 200m		
<p>Adequately surveyed % Correctement hydrographié Adecuadamente levantado</p> <p>Re-survey required % Nécessitant de nouveaux levés Requiere nuevo levantamiento</p> <p>Never systematically surveyed % Jamais hydrographié systématiquement Nunca levantado sistemáticamente</p>	100	0	0	100	0	0	
							
	<p>Notes Notes Notas</p>						

Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

GMDSS implementation Mise en œuvre du SMDSM Implementación SMSSM	Status Status Estado	Notes Notes Notas
Master plan Plan cadre Plan principal	YES	
A1 area Zone A1 Zona A1	NO	
A2 area Zone A2 Zona A2	NO	
A3 area Zone A3 Zona A3	YES	
NAVTEX NAVTEX NAVTEX	YES	
Safety NET Safety NET Safety NET	NO	

Chile - Easter I & Salay-Gomez (C2)

Nautical charting / Cartographie marine / Cartografía náutica

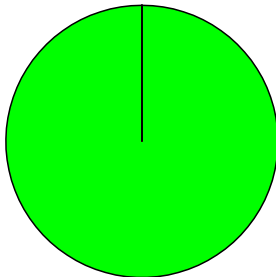
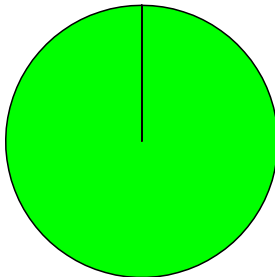
Coverage of charts published Couverture des cartes publiées Cobertura de cartas publicadas		Offshore passage Navigation au large Pasaje offshore			Landfall and Coastal passage Atterrissage et navigation côtière Recalada y Pasaje costero			Approaches and Ports Approches et ports Aproches y puertos		
<p>% Covered by INT or other paper charts meeting S-4 Couvert par des cartes papier INT ou autres conformes S-4 Cubiertas por cartas de papel INT o otras cumpliendo S-4</p> <p>% Covered by RNC meeting S-61 Couvert par des RNC conformes S-61 Cubiertas por RNC cumpliendo S-61</p> <p>% Covered by ENC meeting S-57 Couvert par des ENC conformes S-57 Cubiertas por ENC cumpliendo S-57</p>	0	0	0	1	0	0	5	0	0	
	INT	RNC	ENC	INT	RNC	ENC	INT	RNC	ENC	
Paper charts showing depth in meters Cartes papier avec les profondeurs en mètres Cartas de papel con profundidades en metros		Paper charts referenced to a satellite datum Cartes papier rapportées à un système géodésique satellitaire Cartas de papel referidas a un datum satelital				Data source Source des données Origen de los datos				
Notes Notes Notas										

Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

Navigational information Informations nautiques Información nautical	Status Status Estado	Notes Notes Notas
Local warnings Avertissements locaux Avisos locales	NO	(Modified).
Coastal warnings Avertissements côtiers Avisos costeros	YES	Coastal Station Valparaíso Radio (Modified).
NAVAREA warnings Avertissements NAVAREA Avisos NAVAREA	YES	Coastal Station Valparaíso Radio (Modified).
Information on ports and harbours Information sur les ports et rades Información sobre puertos	NO	

Chile - Islas Juan Fernandez (C2)

Hydrographic surveying / Levés hydrographiques / Levantamientos hidrográficos

Survey coverage Couverture hydrographique Cobertura hidrográfica	Depth < 200m Profondeur < 200m Profundidad < 200m			Depth > 200m Profondeur > 200m Profundidad > 200m		
	<p>Adequately surveyed █ Correctement hydrographié Adecuadamente levantado</p> <p>Re-survey required █ Nécessitant de nouveaux levés Requiere nuevo levantamiento</p> <p>Never systematically surveyed █ Jamais hydrographié systématiquement Nunca levantado sistemáticamente</p>	100	0	0	100	0
						
Notes Notes Notas						

Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

GMDSS implementation Mise en œuvre du SMDSM Implementación SMSSM	Status Status Estado	Notes Notes Notas
Master plan Plan cadre Plan principal	YES	
A1 area Zone A1 Zona A1	YES	
A2 area Zone A2 Zona A2	YES	
A3 area Zone A3 Zona A3	YES	Coastal Station Valparaíso Radio (Modified).
NAVTEX NAVTEX NAVTEX	YES	Coastal Station Valparaíso Radio (Modified).
Safety NET Safety NET Safety NET	NO	

Chile - Islas Juan Fernandez (C2)

Nautical charting / Cartographie marine / Cartografía náutica

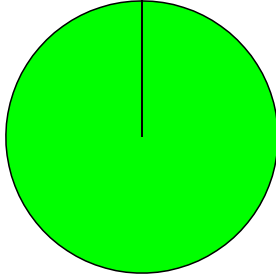
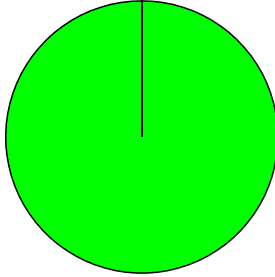
Coverage of charts published Couverture des cartes publiées Cobertura de cartas publicadas		Offshore passage Navigation au large Pasaje offshore			Landfall and Coastal passage Atterrissage et navigation côtière Recalada y Pasaje costero			Approaches and Ports Approches et ports Aproches y puertos		
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	<p>INT RNC ENC</p>			<p>INT RNC ENC</p>			<p>INT RNC ENC</p>			
Paper charts showing depth in meters Cartes papier avec les profondeurs en mètres Cartas de papel con profundidades en metros		Paper charts referenced to a satellite datum Cartes papier rapportées à un système géodésique satellitaire Cartas de papel referidas a un datum satelital				Data source Source des données Origen de los datos				
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Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

Navigation information Informations nautiques Información nautical	Status Status Estado	Notes Notes Notas
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NAVAREA warnings Avertissements NAVAREA Avisos NAVAREA	YES	Coastal Station Valparaíso Radio (Modified).
Information on ports and harbours Information sur les ports et rades Información sobre puertos	YES	

Chile - Islas San Ambrosio & San Felix (C2)

Hydrographic surveying / Levés hydrographiques / Levantamientos hidrográficos

Survey coverage Couverture hydrographique Cobertura hidrográfica		Depth < 200m Profondeur < 200m Profundidad < 200m			Depth > 200m Profondeur > 200m Profundidad > 200m		
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	<p>Notes Notes Notas</p>						

Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

GMDSS implementation Mise en œuvre du SMDSM Implementación SMSSM	Status Status Estado	Notes Notes Notas
Master plan Plan cadre Plan principal	NO	
A1 area Zone A1 Zona A1	NO	
A2 area Zone A2 Zona A2	YES	Coastal Station Valparaíso Radio (Modified).
A3 area Zone A3 Zona A3	YES	Coastal Station Valparaíso Radio (Modified).
NAVTEX NAVTEX NAVTEX	NO	
Safety NET Safety NET Safety NET	NO	

Chile - Islas San Ambrosio & San Felix (C2)

Nautical charting / Cartographie marine / Cartografía náutica

Coverage of charts published Couverture des cartes publiées Cobertura de cartas publicadas		Offshore passage Navigation au large Pasaje offshore			Landfall and Coastal passage Atterrissage et navigation côtière Recalada y Pasaje costero			Approaches and Ports Approches et ports Aproches y puertos		
<p>% Covered by INT or other paper charts meeting S-4 Couvert par des cartes papier INT ou autres conformes S-4 Cubiertas por cartas de papel INT o otras cumpliendo S-4</p> <p>% Covered by RNC meeting S-61 Couvert par des RNC conformes S-61 Cubiertas por RNC cumpliendo S-61</p> <p>% Covered by ENC meeting S-57 Couvert par des ENC conformes S-57 Cubiertas por ENC cumpliendo S-57</p>	0	0	0	0	0	0	2	0	0	
	<p>INT RNC ENC</p>			<p>INT RNC ENC</p>			<p>INT RNC ENC</p>			
	<p>Paper charts showing depth in meters Cartes papier avec les profondeurs en mètres Cartas de papel con profundidades en metros</p>		<p>Paper charts referenced to a satellite datum Cartes papier rapportées à un système géodésique satellitaire Cartas de papel referidas a un datum satelital</p>			<p>Data source Source des données Origen de los datos</p>				
<p>Notes Notes Notas</p>										

Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

Navigational information Informations nautiques Información nautical	Status Status Estado	Notes Notes Notas
<p>Local warnings Avertissements locaux Avisos locales</p>	NO	
<p>Coastal warnings Avertissements côtiers Avisos costeros</p>	YES	Coastal Station Valparaíso Radio (Modified).
<p>NAVAREA warnings Avertissements NAVAREA Avisos NAVAREA</p>	YES	Coastal Station Valparaíso Radio (Modified).
<p>Information on ports and harbours Information sur les ports et rades Información sobre puertos</p>	NO	

ANNEX 8-1
THE INTERNATIONAL SAFETYNET SERVICE

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

NAV = navigational warnings.

MET = meteorological information.

SAR = search and rescue alerts.

* = NAVAREA coordinator responsible for the area.

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

NAV/MET Area	Type of information	Country	LES/LESO	Ocean Region/LES ID	MSI Coastal Warning Area ⁽¹⁾ (if applicable)	Broadcast schedule (UTC)	Status of implementation	Other Information
XV	NAV	Chile	Southbury	AORW		02:10 - 14:10	Operational	NAVAREA COORDINATOR RESPONSIBLE FOR THE AREA.
	MET	Chile	Southbury	AORW		01:00 - 03:15 - 03:45 13:30 - 14:50 - 18:45	Operational	THE ISSUING SERVICE NOMINATED BY WMO FOR METAREA SERVICES, RESPONSIBLE FOR THE AREA.
	SAR	Chile	Southbury	AORW	Chilean SAR Region		Operational	MRCC CHILE THROUGH THE RESCUENET APPLICATION.

ANNEX 8-2
THE INTERNATIONAL SAFETYCAST SERVICE

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

NAV = navigational warnings.

MET = meteorological information.

SAR = search and rescue alerts.

* = NAVAREA coordinator responsible for the area.

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

NAV/MET Area	Type of information	Country	LES/LESO	Ocean Region/LES ID	MSI Coastal Warning Area ⁽¹⁾ (if applicable)	Broadcast schedule (UTC)	Status of implementation	Other Information
XV	NAV	Chile				02:00 - 14:00	Operational	NAVAREA COORDINATOR RESPONSIBLE FOR THE AREA
	MET	Chile				01:35 - 03:00 - 03:50 13:35 - 15:00 - 18:50.	Operational	THE ISSUING SERVICE NOMINATED BY WMO FOR METAREA SERVICES, RESPONSIBLE FOR THE AREA.