

**MSI Self Assessment NAVAREA XVI**

**PERÚ - DIRECTORATE OF HYDROGRAPHY AND NAVIGATION**

**SUMMARY**

Executive Summary: Report of activities within NAVAREA XVI since WWNWS10

Action to be taken: *Note this Report*

Related documents: *None*

1. Background:

The Directorate of Hydrography and Navigation of the Peruvian Navy (DHN) is the NAVAREA XVI Coordinator and transmits MSI in force (MESSAGES IN FORCE) by SafetyNET Service through the server COMSAT which uses AOR-W satellite.

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

COUNTRY	INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
PERU	Directorate of Hydrography and Navigation	00-51-1-2078160	00-51-1-4658312	navareaxvi@dhn.mil.pe

2. Comments:

- No changes on GMDSS Master Plan.
- The Maritime Safety Information (MSI) within NAVAREA XVI is followed according to the Joint IMO/IHO/WMO Manual on Maritime Safety Information Revised.
- Equipment and software versions used up to date
- The following table shows the equipment installed in NAVAREA XVI Operation Center to monitor all MSI messages broadcasted by NAVAREA XVI Coordinator:

Equipment Type	Software Version	Date of Up-date
Transceiver Inmarsat Mini- C	Felcom 16	None
NAVTEX receiver	N/A	Original

**Specifics of information and data received**

2016				2017				2018			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
751	0	0	0	687	0	0	0	724	0	0	0

SafetyNET

- i. NAVAREA XVI Warnings are broadcasted on SafetyNET through the AOR (W) satellite, as well as NAVTEX when appropriate.
- ii. The following table shows the number of SafetyNET messages (including weekly bulletins) that were promulgated:

SAFETYNET				
MONTH	2016	2017	2018	2019
JANUARY	74	53	82	82
FEBRUARY	68	54	75	73
MARCH	74	60	81	75
APRIL	80	56	78	71
MAY	69	61	71	74
JUNE	70	59	72	75
JULY	69	66	70	73
AUGUST	60	76	77	50
SEPTEMBER	61	82	75	
OCTOBER	65	85	86	
NOVEMBER	59	68	81	
DECEMBER	53	91	72	
ANUAL	802	811	920	

[Specifics of MSI within NAVAREA, include how many SafetyNET messages were promulgated over 3yr period e.g. NAVAREA XVI 2016 - 802, 2017 - 811, 2018 – 920; Monitoring of MSI]

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

2016		2017		2018	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
79	22.6 Mins	57	20.2 Mins	87	21.5 Mins

[Specifics of requests for list of in-force navigations warnings]

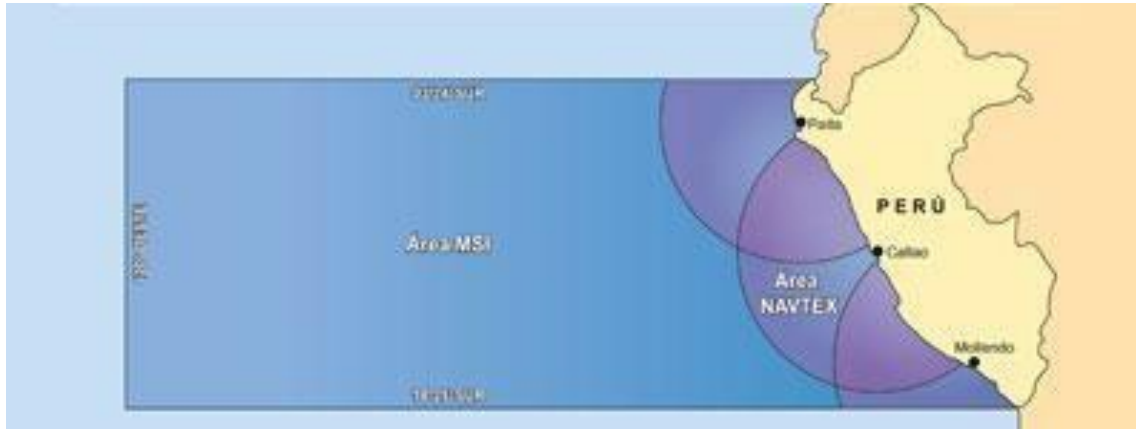
*Detalles de las solicitudes de lista de advertencias de navegación en vigor]*

2016		2017		2018	
Total	E-mail	Total	E-mail	Total	E-mail
751	751	687	687	724	724

### 3. NAVTEX Coverage:

3.1 Coastal Warnings for all National Coordinators in NAVAREA XVI are promulgated on NAVTEX.

3.2 The diagram below shows NAVTEX Service Areas for the International NAVTEX Service within NAVAREA XVI. PERU NAVTEX (400NM from coastline)



PERU NAVTEX (250NM off the coast) Coverage area

3.3 PERU NAVTEX contact points and status of the stations Station Name Contact Person Telephone/Mobile

Station Name	Contact Person	Telephone/Mobile phone	Status
Paita [S]	On duty personnel	00-51-73-211670 00-51-969520961	Working
Callao[U]	On duty personnel	00-51-1-4299798/ 00-51-998849812	Working
Mollendo[W]	On duty personnel	00-51-54-534383/ 00-51-959036759	Working

### 4. Operational Issues:

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
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**4.1** Only coastal stations Paita and Callao within NAVAREA XVI transmit coastal warnings through NAVTEX and local warnings through VHF system.

**4.2** No new infrastructure has been added to NAVAREA.

**4.3** Warnings Messages with less than 42 days old; are daily broadcasted on SafetyNET at 0500-1700 UTC.

**4.4** Warnings Messages with more than 42 days old are published monthly in the Notice to Mariners bulletin and posted on the web page of this Directorate.

## 5. Quality Management Survey

NAVAREA	ISO 9001-2008	Promulgate "In-Force" Bulletins	Promulgate "No-Warning" Messages	Monitor Broadcast	24/7 contact information provided	Promulgate two scheduled broadcasts	Certificates for all recognised service providers	IMO Master Plan updated
XVI	YES	YES	YES	YES	YES	YES	YES	YES

## 6. Contingency Planning

The NAVAREA XVI Coordination Centre is located on the premises of the Directorate of Hydrography and Navigation in Calle Roca N° 118 Chucuito – Callao on the shores of Chucuito beach. For this, it is permanently exposed to natural disaster that may affect its infrastructure.

This contingency plan provides for the planning and execution actions to face emergencies caused by natural disasters as well as provisions for the dissemination of the alert in case of Tsunami.

### 6.1 Implementation

When the operator of the NAVARAREA XVI Coordination Centre receives the Tsunami warning, he/she will broadcast immediately the radio navigational warning through COMSAT website.

If it was not possible to use the systems of the Directorate of Hydrography and Navigation, the operator on duty will contact the Alternate Tsunami Warning Centre to transmit the corresponding warning via COMSAT website.

Currently, a Contingency Plan has not been implemented with another NAVAREA coordinator. There was a proposal on implementing a Contingency Plan with Chile (NAVAREA XV).

### 6.2 Resources

The NAVAREA XVI Coordination Centre counts on a 24 hours service staff.

The NAVAREA XVI Coordination Centre has the following equipment:

ONE (1) INMARSAT MINI "C" equipment, FURUNO brand, model FELCOM XVI is used as a primary means of sending SafetyNET warnings. The computer is configured to send warnings via e-mail in NAVAREA XVI are using Marlink LES.

ONE (1) NAVTEX equipment, FURUNO brand, model MX-700, is used to verify the warning transmission in the coast of Peru.

ONE (1) TX/RX VHF-FM equipment, ICOM brand, STANDARD HORIZON model, is used to communicate with the units within an area of 20 nautical miles, and captaincies and coastal station within a VHF-FM range.

ONE (1) UPS Centralion brand, model Titan Vista Pro 200000, 220 VAC, 60 Hz with 4 hours of backup time power.

**7. Capacity Building:**

- a. The NAVAREA XVI Coordination Centre has implemented new transmission equipment recently for In Force Bulletins. Likewise, the operators have been trained in the Arcgis 10 software, geographical information system for the updating of the In Force Bulletins on the web page.
- b. The NAVAREA XVI Coordination Centre operators are training in English.

**8. Other Activities:**

None.

**9. NAVAREA Website:**

Our web site is updated when a Warning Bulletin is issued or when the latest updating is displayed on the web site.

Web site: <https://www.dhn.mil.pe/radioavisos>

The screenshot shows the website's navigation bar with links: INICIO, NOSOTROS, SERVICIOS Y PRODUCTOS, BOLETINES, FENÓMENO EL NIÑO, PRONÓSTICOS, GALERÍA, and VIDEOS. The main content is divided into two columns: NAVAREA XVI and METAREA XVI. NAVAREA XVI includes text about OMI resolution A.706 (17) and sections for 'Radioavisos Vigentes Navarea XVI' and 'Radioavisos Navarea XVI - Warnings'. METAREA XVI includes text about OMI resolution N° 78 and sections for 'Pronóstico Meteorológico para la Zona Oceánica' and 'Pronóstico Meteorológico para la Zona Costera'. On the right, there is an 'AVISO ESPECIAL Nro. 58' and a 'TABLA DE MAREAS' (Tide Table) for August 2019. The tide table shows values for days 29 through 31, with a highlighted '20' on August 20th. Below the tide table is a 'COMERCIO Y EMPRESAS' section with images and links for 'Catálogo de Cartas y Publicaciones Náuticas', 'Venta de Cartas Náuticas Electrónicas', and 'Empresas Hidro-Oceanográficas'. At the bottom, there is an 'INFORMACIÓN' section.

**10. NAVAREA Contact Information:**

**PERU (NAVAREA XVI)**

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11. Recommendations:

None.

12. Actions requested:

The Sub-Committee is invited to note the report.

13. Summary:

The Directorate of Hydrography and Navigation of the Peruvian Navy, as NAVAREA XVI coordinator, transmits in force MSI messages on a daily basis, at 0500 and 1700 hrs UTC time, by SafetyNET Service through the server MARLINK which uses AOR-W satellite; and by NAVTEX when required. Also, MSI messages will also be transmitted at any schedule upon reception of warning messages. NAVAREA XVI is divided in 3 sub-areas defined as Ocean Pacific Coastal Paita, Coastal Callao and Coastal Mollendo. These Coastal Centres operate autonomously promulgating Navigational Warnings via NAVTEX. Peruvian Contingency Plan provides actions needed to face emergencies caused by natural disasters, as well as provisions for the dissemination of alerts in case of a Tsunami warning occurrence. ISO 9001:2008 quality management certification for NAVAREA XVI Coordination Center is already in progress.