

### MSI Self Assessment NAVAREA XVI

Submitted by

PERÚ - DIRECTORATE OF HYDROGRAPHY AND NAVIGATION

#### SUMMARY

Executive Summary: Report of activities within NAVAREA XVI since WWNWS8

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 MARLINK 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

2014				2015				2016			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
200	2	5	27	760	1	0	0	751	0	0	00

#### 2.1 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	2014	2015	2016	2017
JANUARY	45	73	74	53
FEBRUARY	26	72	68	54
MARCH	11	83	74	60
APRIL	8	63	80	56
MAY	46	68	69	61
JUNE	57	53	70	59
JULY	65	58	69	66
AUGUST	69	59	60	25
SEPTEMBER	84	62	61	----
OCTOBER	71	69	65	----
NOVEMBER	79	59	59	----
DECEMBER	21	55	53	----

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

2014		2015		2016	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time

34	19.8 minutes	79	22.6 minutes	57	20.2 minutes
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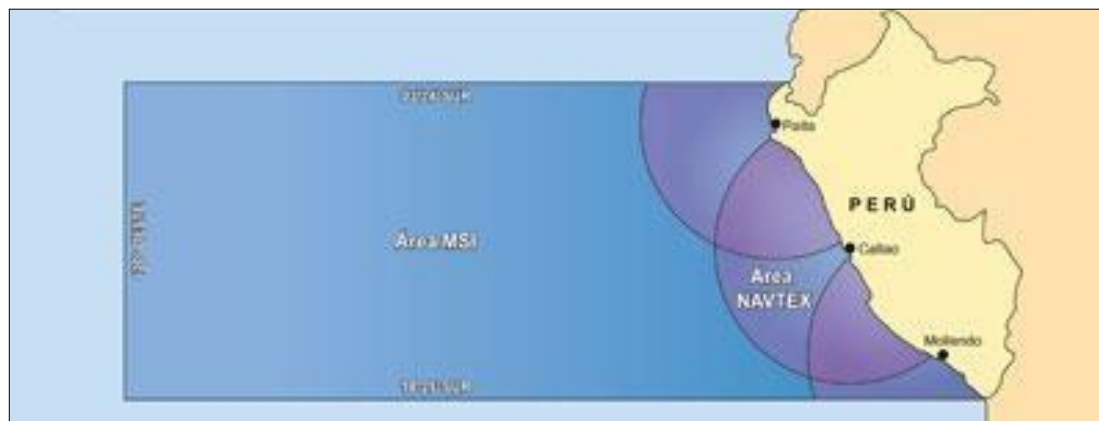
*[Specifics of requests for list of in-force navigations warnings]*

2014		2015		2016	
Total	E-mail	Total	E-mail	Total	E-mail
645	645	760	760	751	751

### 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	Not Working
Callao (U)	On duty personnel	00-51-1-4299798/ 00-51-998849812	Not Working

Mollendo (W)	On duty personnel	00-51-54-534383/ 00-51-959036759	Not Working
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#### 4. Operational Issues:

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
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4.1 All coastal stations 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 "NoWarning" Messages	Monitor Broadcast	24/7 contact information provided	Promulgate two scheduled broadcasts	IMO Master Plan updated
XVI	YES	YES	YES	YES	YES	YES	YES

#### 6. Contingency Planning

The NAVAREA XVI Coordination Centre is located at the Directorate of Hydrography and Navigation in Calle Roca N° 118 Chucuito – Callao, and since it is located at Chucuito beach waterfront, it is permanently exposed to natural disasters that may affect its infrastructure.

This 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.

##### 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 MARLINK website.

If it is not possible to use the equipment of the Directorate of Hydrography and Navigation, the operator on duty will contact the Alternate Tsunami Warning Centre (10 minutes) to transmit the corresponding warning message via MARLINK 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), but they stated: “To implement a system involving NAVAREA XV and NAVAREA XVI does not constitutes a priority for Chile at this time.

**7. Capacity Building:**

- a. Operators of NAVAREA XVI Coordination Centre use Arcgis 10 Geographical Information System to monitor and update In-Force navigation warnings.
- b. The NAVAREA XVI Coordination Centre operators follow training programs given in English language.


**8. Other Activities:**

As of June 30th of this year, Peru took the responsibility for issuing weather forecasts for ships and Units that are navigating in the METAREA XVI area through the National Maritime Forecasting Center of the Directorate of Hydrography and Navigation (DHN)


**9. NAVAREA Website:**

Our web site is daily updated and when a Warning Bulletin is issued. Web site: <https://www.dhn.mil.pe/radioavisos>

INICIO NOSOTROS SERVICIOS Y PRODUCTOS BOLETINES FENÓMENO EL NIÑO GALE




**Tabla de Mareas Agosto - 2017**  
 ↗ Pronósticos del nivel medio del mar por día y hora.



**Cartas de inundación en caso de Tsunami**  
 ↗ Accede y encuentra las nuevas áreas de inundación.



**APP MGP TSUNAMI DE ALERTA TEMPRANA**  
 Descarga la App y visualiza las cartas de inundación por zona y recibe alertas de Tsunami



**Centro Nacional de Alerta de Tsunami**




**Servicio de Hidrografía Navegación Puno**  
 ↗ Información para los navegantes del Lago Titicaca.



**APP MGP RÍOS NIVEL DE LOS RÍOS DE LA AMAZONIA**  
 Descarga la App y visualiza el nivel de los ríos de la Amazonia



**Ediciones de la Bitácora Hidrográfica**  
 ↗ Revista producida por la DHN semestralmente.




**Servicio Hidrografía y Navegación de la Amazonia**

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**NAVAREA XVI**

La Organización Marítima Internacional (OMI) con resolución A.706 (17) de fecha 6 Noviembre de 1991, aprobó el Servicio de Radioavisos a los Navegantes de alcance mundial el mismo que fue adoptado por el Perú.....



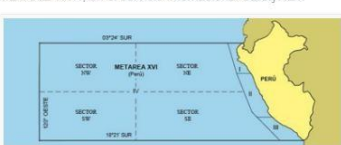
**Radioavisos Vigentes Navarea XVI**  
 ↗ Lista de radioavisos dirigidos a los navegantes del área XVI.

**Radioavisos Navarea XVI - Warnings**  
 ↗ Lista de radioavisos de advertencia dirigidos a los navegantes del área XVI.

[pe/secciones/departamentos/.../tsunamis\\_inundacion.htm](http://pe/secciones/departamentos/.../tsunamis_inundacion.htm)

**METAREA XVI**

La Organización Marítima Internacional, el 8 de noviembre del 2016, emite el Certificado N° 78 a la Dirección de Hidrografía y Navegación, mediante el cual nos autoriza a difundir información océano - meteorológica para el área METAREA XVI, en el servicio internacional SafetyNET.



**Pronóstico Meteorológico para la Zona Oceánica**  
 ↗ Pronóstico Meteorológico Vigentes

**Pronóstico Meteorológico para la Zona Costera**  
 ↗ Pronóstico Meteorológico Vigentes

**10. NAVAREA Contact Information:**

**PERU (NAVAREA XVI)**

Sr. David PORTILLA Linares

Postal code: 80 – Callao - 1

Street Roca N° 118 Chucuito - Callao

Tel .: 005112078160, annexed: 6401 / 6463

Fax: 005112078178

Email: dportilla@dhn.mil.pe

Correo electrónico (MSI para NAVAREA XVI): navareaxvi@dhn.mil.pe

**11. Recommendations:**

None.

**12. Actions requested**

Note the information provided

**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 Centers 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.