MSI Self Assessment NAVAREA XVI

Submitted by

PERÚ - DIRECTORATE OF HYDROGRAPHY AND NAVIGATION

SUMMARY

Executive Summary: Report of activities within NAVAREA XVI since WWNWS7

Action to be taken: Note this Report

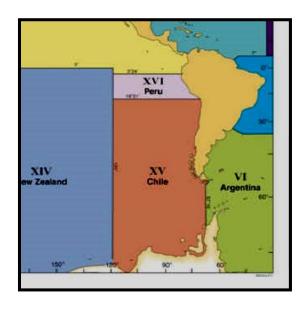
Related documents: None

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.

1.1 NAVAREA XVI comprises of the waters of the SW Pacific Ocean.

NAVAREA	Country	Area covered	Time (UTC)	Satellite	Safetynet
					Server
XVI	Perú	Among parallels 3° 24'S and 18°21'S, and from Peruvian coast to the meridian 120°00'W	0500, 1700	AOR-W	MARLINK

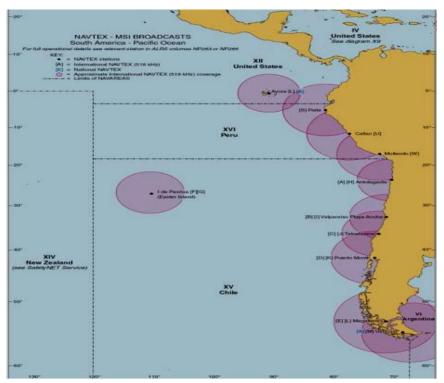


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1.2 NAVAREA XVI SUB-AREAS

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.

Station Name	Transmission Schedules NAVAREAS (UTC)	Transmission Schedules FORECAST	Location
Paita [S]	0700 1100 1900 2300	0300 1500	Lat. 05°06.0' S, Long. 81°07.0' W
Callao [U]	1120 1520 2320 0320	0720 1920	Lat. 12°04.0' S, Long. 77°09.0' W
Mollendo [W]	1540 1940 0340 0740	1140 2340	Lat. 17°00.0' S, Long. 72°02.0' W



PERU NAVTEX (250NM off the coast) Coverage area

Note: MSI messages will also be transmitted at any schedule upon reception of warning messages in the water and waterways or when receiving messages related to security.

1.3 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

Note: NAVAREA XVI email was changed from navarea@dhn.mil.pe (not in use anymore) to navareawvi@dhn.mil.pe.

2. Comments:

GMDSS Master Plan:

- ➤ 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

2013 2014			2015								
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
190	1	0	2	200	2	5	27	760	1	0	0

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:

MONTH	2013	2014	2015	2016
JANUARY	21	45	73	74
FEBRUARY	26	26	72	68
MARCH	33	11	83	74
APRIL	32	08	63	80
MAY	44	46	68	69
JUNE	28	57	53	70
JULY	42	65	58	69
AUGUST	18	69	59	
SEPTEMBER	24	84	62	
OCTOBER	33	71	69	
NOVEMBER	20	79	59	
DECEMBER	21	21	55	
TOTAL	342	582	774	

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:

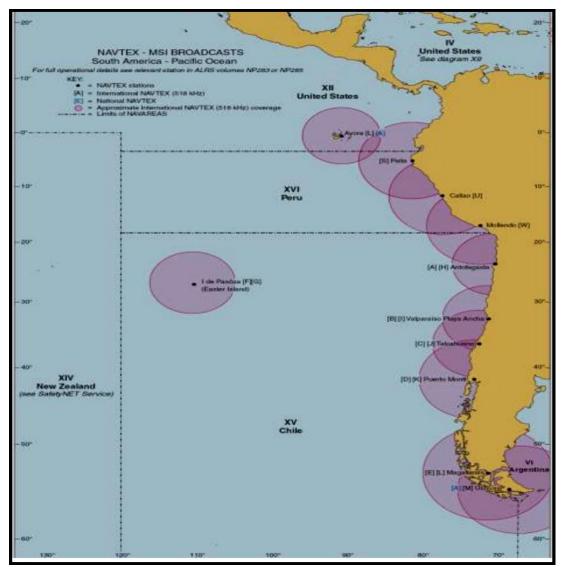
2013			2014	2015		
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time	
23	29.6 minutes	34	19.8 minutes	79	22.6 minutes	

List of in-force navigations warnings

2015		2016 (July)		2017	
Total	E-mail	Total	E-mail	Total	E-mail
760	760	504	504	-	-

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)

3.3 PERU NAVTEX contact points and status of the stations

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	Not Working
Mollendo[W]	On duty personnel	00-51-54-534383/ 00-51-959036759	Not Working

4. Operational Issues:

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages				
INDIA	01	Military Exercises				
There was a good information exchange between NAVAREA XVI and NAVAREA VIII.						

- 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 "No- Warning" Messages	Monitor Broadcast in almost real time	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's 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 drive) 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.
- c. With regard to multilateral development, NAVAREA XVI has successfully issued maritime safety information messages along with the NAVAREA VIII-INDIA coordinator.

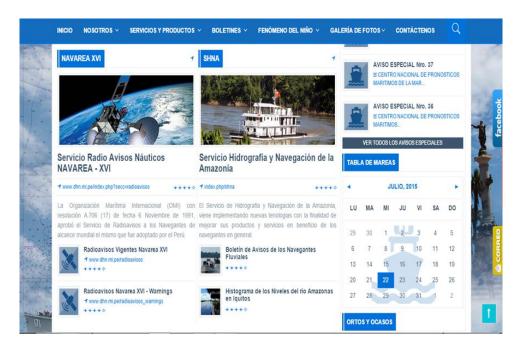
8. Other Activities:

METAREA XVI trial phase started on August 22nd and is expected to finish by September 22nd. After this, different evaluations and tests are needed to verify if Perú will be directly on charge of METAREA XVI.

9. NAVAREA Website:

Our web site is daily updated and when a Warning Bulletin is issued.

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



10. NAVAREA Contact Information:

National Coordinator: Directorate of Hydrography and Navigation (DHN)							
Responsible	Contact	Telephone	Fax	E-mail			
Director	Rodolfo SABLICH Luna Victoria	00-51-1-2078160 Extension 6400-6401	00-51-1-4658312	rsablich@dhn.mil.pe			
Head of the Navigation Department	Christopher SERVÁN Durán	00-51-1-2078160 Extension 6480	00-51-1-6136759	cservan@dhn.mil.pe			
Operators of the NAVAREA XVI		00-51-1-2078160 Extension: 6463, 6482	00-51-1-4533273	navareaxvi@dhn.mil.pe jbruno@dhn.mil.pe vquispe@dhn.mil.pe			

11. Recommendations:

Contingency Plan workshops to learn more about other procedures established.

12. Actions requested:

The Sub-Committee is invited to note this 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 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.