

MSI Self Assessment NAVAREA XVI

Submitted by

PERÚ - DIRECTORATE OF HYDROGRAPHY AND NAVIGATION

SUMMARY

Executive Summary: THIS DOCUMENT REPORTS ON THE ACTIVITIES OF NAVAREA XVI

Action to be taken: 12

Related documents: NONE

1. Background:

The Directorate of Hydrography and Navigation of the Peruvian Navy (DHN) is the NAVAREA XVI coordinator and transmits the MSI in force (MESSAGES IN FORCE) by SafetyNET Service through the web site ASTRIUM in the AOR-W satellite at 0500 and 1700 UTC.

1.1 NAVAREA XVI, Maritime zone covering the SAFETYNET server

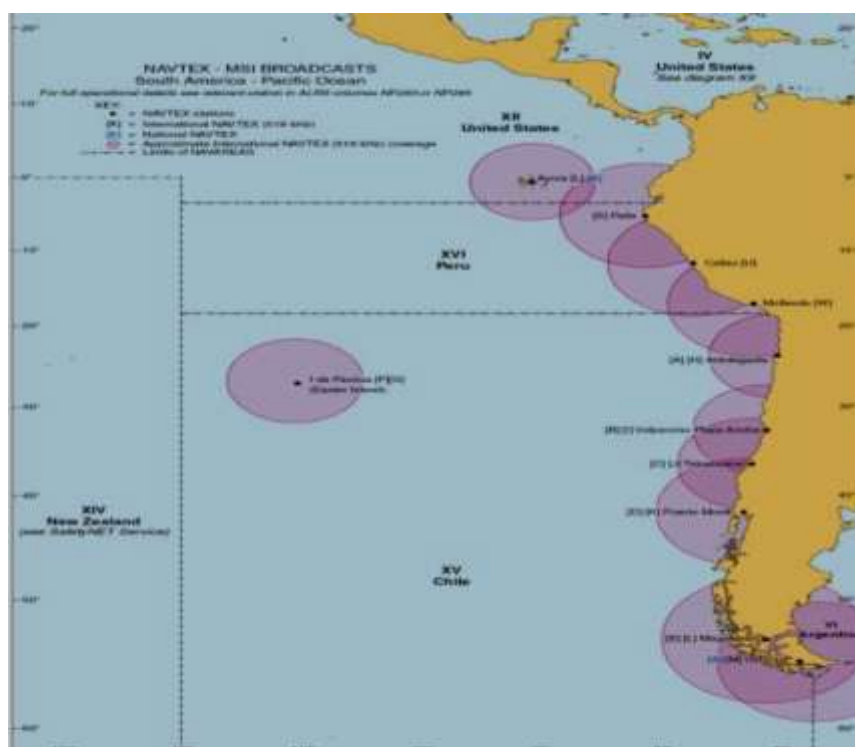
NAVAREA	Country	Area covered	Time (UTC)	Satellite	Safetynet Server
XVI	Perú	Among the parallels 3° 24'S and 18°21'S, and of the Peruvian coast to the meridian 120°00'W	0500, 1700	AOR-W	ASTRIUM



NAVAREA XVI

1.2 PERU NAVTEX Transmission Schedules in 518 khz (English/Spanish)

Station Name	Transmission Schedules NAVAREAS (UTC)	Transmission Schedules FORECAST (UTC)	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

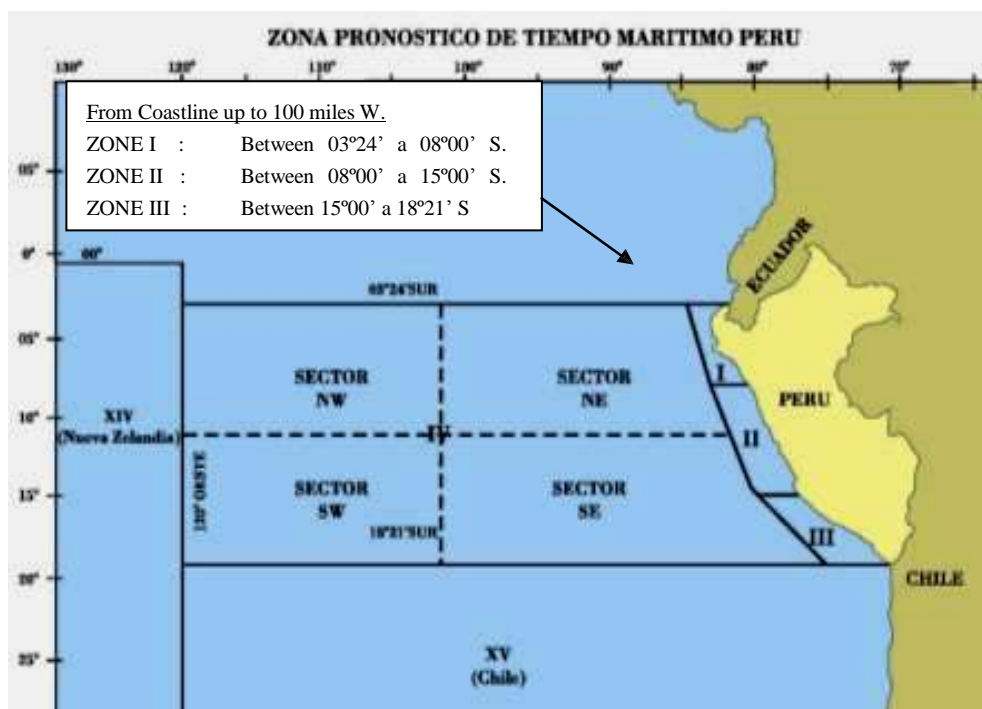


PERU NAVTEX (250NM off the coast) Coverage area

Coastal stations which transmit weather warnings for maritime navigation

Station Name	Forecast Area	Information
Paita [S] RADIO OBY2	Coastal region I up to 100 miles approximately	Weather and sea conditions
Callao [U] RADIO OBC3	Coastal regions I, II, III up to 100 miles aprox. and Oceanic regions IV up to Meridian 120° West	Weather and sea conditions
Mollendo[W] RADIO OBF4	Coastal region III up to 100 miles approximately	Weather and sea conditions

FORECAST coverage



1.3 Local coastal stations that broadcast special weather warnings

COASTAL	CALL SIGN	VHF (F3E) CHANNEL	GEOGRAPHICAL LOCATION	
			Latitude	Longitude
ZORRITOS	OBU2	16	03°40' S	80°40' W
TALARA	OBT2	16	04°35' S	81°17' W
PAITA	OBY2	16 12	05°05' S	81°07' W
PIMENTEL	OBH2	16	06°57' S	79°52' W
SALAVERRY	OBR3	16	08°13' S	78°59' W
CHIMBOTE	OBZ3	16	09°05' S	78°38' W
HUACHO		16	11°07' S	77°37' W
CALLAO	OBC3	16	12°03' S	77°09' W
PISCO		16	13°43' S	76°14' W
MOLLENDON	OBF4	16	17°01' S	72°01' W
ILO		16	17°38' S	71°21' W

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

National Coordinator: Directorate of Hydrography and Navigation (DHN)				
Responsible	Contac Person	Telephone	Fax	E-mail
Director, Hydrography and Navigation	Hugo VERAN Moreno	00-51-1- 2078160 Extension 6400-6401	00-51-1-4658312	hveran@dhnmil.pe
Head of the Navigation Department	Roger MERA Aro	00-51-1- 2078160 Extension 6480	00-51-1-6136759	rmera@dhnmil.pe

2. Comments:

The Master Plan of the shore-based GMDSS, Annex 8 has been updated by e-mail communication with Mr. William Van-Den-Bergh, Secretary of the IMO NAVTEX Coordinating Panel of the UKHO in July.

The Maritime Safety Information (MSI) in NAVAREA XVI is performed in accordance with the publication Joint IMO/IHO/WMO Manual on Maritime Safety Information.

Navarea Radio Navigational Warning transmitted:

SafetyNET			
MONTH	2012	2013	2014
JANUARY	15	21	45
FEBRUARY	21	26	26
MARCH	30	33	11
APRIL	26	32	08
MAY	12	44	46
JUNE	06	28	58
JULY	18	42	46 (20-07)
AUGUST	24	18	-
SEPTEMBER	16	24	-
OCTOBER	16	33	-
NOVEMBER	14	20	-
DECEMBER	09	21	-
ANUAL	207	342	240

3. NAVTEX Coverage:

PERU NAVTEX contact points and status of the stations

Station Name	Contact Person	Telephone/Mobile phone	Status
Paíta [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

The working condition of the Callao coastal station is verified by the Navtex NX-700 receiver device installed on the Navarea XVI Coordination Center in the Directorate of Hydrography and Navigation of Peru. Likewise, the working condition of the Paíta / Mollendo coastal stations is checked by Navtex equipment of the Naval and Hydrographic Units.

4. Operational Issues:

- The IN FORCE WARNINGS with less than 42 days old are transmitted daily through SafetyNET to 0500-1700 UTC.
- The IN FORCE WARNINGS with more than 42 days old are published monthly in the Notice to Mariners Bulletin and will be posted in the web site of this Directorate: www.dhn.mil.pe.

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 Center is in the Directorate of Hydrography and Navigation in Calle Roca N ° 118 Chucuito - Callao at the shores of Chucuito beach. The DHN is exposed to natural disasters permanently as the occurrence of a tsunami that may affect its premises.

Therefore, a timely warning, a good approach and an adequate training before the arrival of these waves, minimize their destructive effects.

This contingency plan provides information related to the planning and implementation of actions in order to deal with emergency situations caused by natural disasters as well as provisions for the dissemination of warning and alarm bulletins in case of a potential tsunami.

6.1 Implementations

When the operator of the NAVAREA XVI Coordinator Centre receives a tsunami alarm/alert, a navigational warning will be broadcasted immediately via INMARSAT MINI "C".

If the earthquake caused inoperability of INMARSAT MINI "C" equipment and UPS of the NAVAREA XVI Coordination Center, the operator shall transmit the navigational alert/alarm tsunami warning through Astrium 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 Warning Tsunami Center to broadcast the warning through Astrium website.

At present, a Contingency plan has not been implemented with another NAVAREA coordinator .

6.2 Resources

The NAVAREA XVI Coordination Center counts with a on duty staff the whole day. It has the following equipment:

ONE (1) INMARSAT MINI "C" equipment, FURUNO brand, FELCOM XVI model is used as the main mean to broadcast the SafetyNET warnings. This equipment is set up to transmits alerts by email in NAVAREA XVI and is using AstriumLES.

ONE (1) NAVTEX receiver equipment, FURUNO brand, NX-700 model. It is used to check the alert transmission along the Peruvian coast.

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

ONE (1) Centralion UPS, Titan Vista Pro 200,000 model, 220 VAC, 60 Hz with 4 hours of reserve power.

ONE (1) generator, Motyrep brand of 220 volts to be used 24 hour in case of no electric power.

7. Capacity Building:

The NAVAREA XVI Coordination Center has implemented a new display system of in force radio-warning transmitted in the Automatic Information system, software ArcGIS 10.

Likewise, operators have been trained in the ArcGIS software for proper operation of this new system

Operators of the NAVAREA XVI Coordination Center are in constant training in the English language.

With regard to multilateral development, we have issued messages on Maritime Safety Information, together with the Navarea VIII-INDIA Coordinator.

8. Other Activities:

None

9. NAVAREA Website:

When a warning bulletin is issued, our web site is updated immediately.

Web site: <https://www.dhn.mil.pe/index.asp?pag=navareas>



10. NAVAREA Contact Information:

Responsible	Telephone	FAX	EMAIL
Head of Navigation Department	00-51-1-2078160 Extension 6480	00-51-1-6136759	rmera@dhn.mil.pe
Navarea XVI operator	00-51-1-2078160 Extension 6463	00-51-1-2078178	navarea@dhn.mil.pe rdepaz@dhn.mil.pe vquispe@dhn.mil.pe

11. Recommendations:

The MSI courses should be dictated on a regular basis.

12. Actions requested:

None

13. Summary:

With the purpose of improving the nautical warning service, changes were made. The fulfilment of scheduled transmission as well as register of transmission with a back up of files has been prioritized. The quality standards and the changes generated at this stage are reflected in the amount of monthly transmissions that exceed the previous them.

To fulfill transmissions both In Force Bulletins and Warning Messages were already scheduled to increase the quality of the service. Likewise, the ISO 90001 quality management is already in progress.

DHN staff is training to comply with their functions as operator on duty of the NAVAREA XVI Coordination Center.