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:**

NAVAREA Maritime zone covering the SAFETYNET server

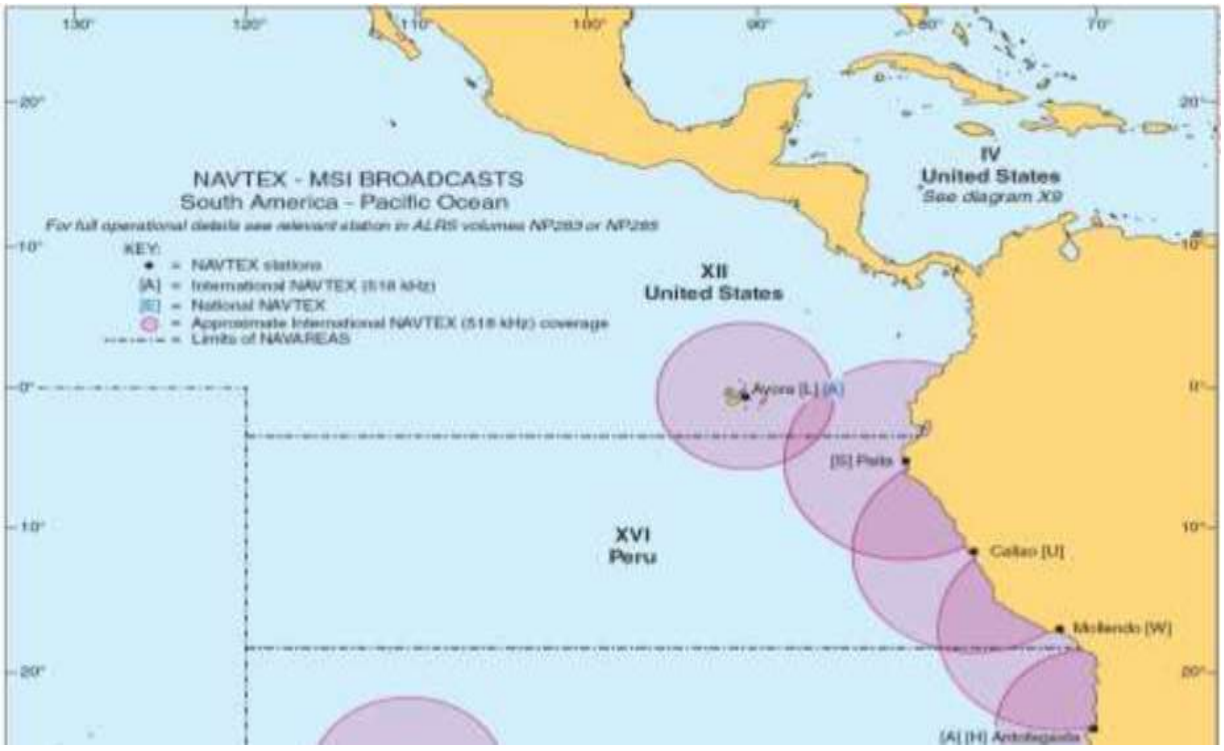
NAVAREA	Country	Area covered	Time (UTC)	Satellite	Safetynet Server
XVI	Perú	Among the parallels 3° 24'S and 18°21'S, and of the Peruvian coast to the meridian 120°00'W	0500, 0700	AOR-W	ASTRIUM

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 of Hydrography and Navigation	Fernando PEÑARANDA Muñoz	00-51-1-2078160 Anexo 6400-6401	00-51-1-4658312	fpenaranda@dhn.mil.pe
Head of the Navigation Departament	Roger MERA Aro	00-51-1-2078160 Anexo 6480	00-51-1-6136759	rmera@dhn.mil.pe

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	1920 0720	Lat. 12°01.8' S, Long. 77°07.8' W
Mollendo □W□	1540 1940 0340 0740	1140 2340	Lat. 17°00.3' S, Long. 72°01.9' W

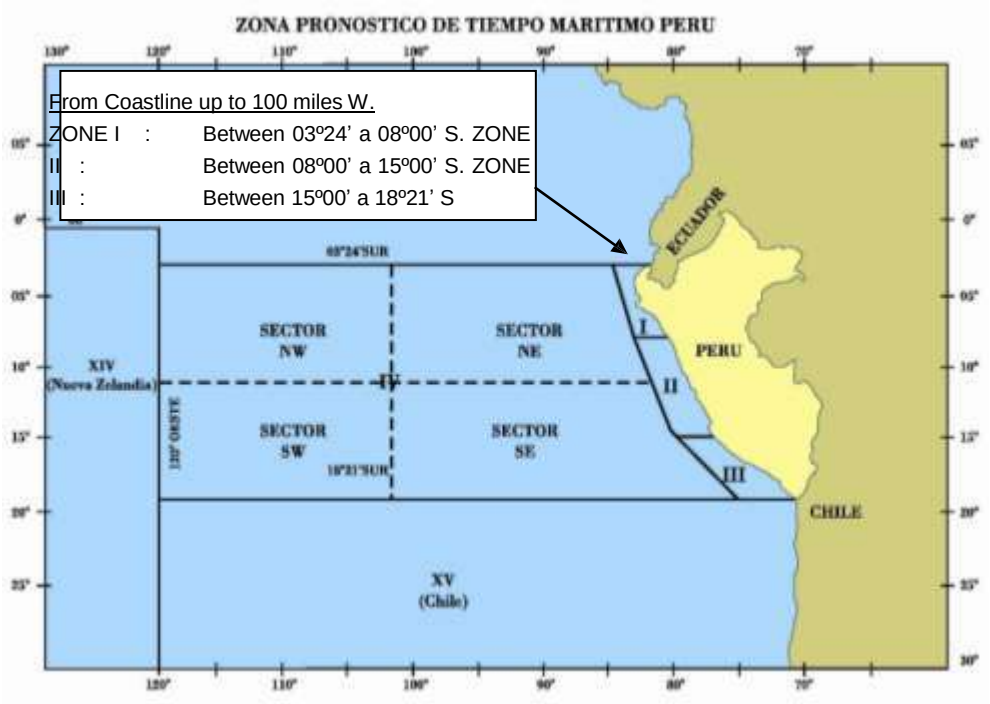


PERU NAVTEX (400 NM from the coast) Coverage Area

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 Oceanic 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



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
MOLLENDO	OBF4	16	17°01’ S	72°01’ W
ILO		16	17°38’ S	71°21’ W

2. Comments:

The Master Plan Of Shore-Based Facilities For The Global Maritime Distress And Safety System (GMDSS), Annex 7 and 8, was updated via e-mail with Mr. William Van-Den-Bergh, Secretary IMO NAVTEX Coordinating Panel of United Kingdom Hydrographic Office, in August of this year.

The Maritime Safety Information (MSI) within NAVAREA XVI is followed according to the
Joint IMO/IHO/WMO Manual on Maritime Safety Information revised.

NAVAREA XVI:

2010-123 broadcasted
2011-236 broadcasted
2012-207 broadcasted
2013-255 broadcasted to date

3. NAVTEX Coverage:

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	Working
Mollendo[W]	On duty personnel	00-51-54-534383/ 00-51-959036759	Working

The proper functioning of the Callao Coastal Station is verified by the Navtex NX-700 receiving equipment installed in the Navarea XVI Coordination Center in the Directorate of Hydrography and Navigation. The proper functioning of the Paita/Mollendo Coastal Stations is verified by the Navtex equipments of the Naval and Hydrographic Units.

4. Operational Issues:

a. Warning Massages with less than 42 days old, are daily broadcasted on safetynet at 0500-1700 UTC.

b. Warning Massages with more than 42 days old are publishes monthly in the notice to mariners bulletin and are 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 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. .

In this regard, a timely warning, a good approach and adequate training before the arrival of these waves, will minimize their destructive effects

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.

Implementation

When the operator of the NAVARAREA XVI Coordination Centre receives the tsunami warning, he will broadcast immediately the radio navigational warning through INMARSAT MINI "C".

If the earthquake produced the inoperability of INMARSAT MINI "C" and UPS of the NAVARAREA XVI Coordination Centre, the operator shall transmit the radio navigational warning from the Tsunami Warning Hall via 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 Tsunami Warning Centre to transmit the corresponding warning via ASTRIUM website.
At present a Contingency plan has not been implemented with another NAVAREA coordinator.

Resources

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

The NAVAREA XVI Coordination Centre has the following equipments:

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 Astrium LES, and as an alternative means, the access to the web through Astrium is used.

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.

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

7. Capacity Building:

a. The NAVAREA XVI Coordination Centre has implemented new transmission equipments 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 language.

c. With regard to multilateral development, we have issued maritime safety information messages along with the Navarea VIII-INDIA coordinator.

8. Other Activities:

The International Maritime Organization underwent a voluntary audit in this April as part of the Voluntary Audit Plan for Member States, related to safety information and other. IMO granted a special recognition for the Nautical Warnings for Navarea XVI.

9. NAVAREA Website:

Our web site is updated when a Warning Bulletin is issued or/ and every 24 hours or when the latest updating is displayed on the web site.

Web site: https://www.dhn.mil.pe/index.asp?pag=radioavisos_nauticos

10. NAVAREA Contact Information:

Responsible	telephone	FAX	EMAIL
Head of the Navigation Department	00-51-1-2078160 Annex-6480	00-51-1-6136759	rmera@dhn.mil.pe
Operator of the Navarea XVI	00-51-1-2078160 Annex-6463	00-51-1-2078178	navarea@dhn.mil.pe anieto@dhn.mil.pe

11. Recommendations:

none

12. Actions requested:

During the Fourth JCOMM meeting held in Yeosu –Korea, Mr. Edgard Cabrera, Head of Marine Meteorology and Ocean Affairs Division of the World Meteorological Organization was requested to give the responsibility of Metarea XVI to Peru due to the quality and accuracy of our forecasts and the modernization of our equipments. This is pending of action.

13. Summary:

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

For the fulfillment of the transmission, both In Force Bulletins and Warning Messages, new requirements that were already scheduled to increase the quality of the service. Likewise, the ISO 90001 quality management is already in progress.