

MSI Assessment for NAVAREA-IX

Reporting period from 1st Jan 2022 to 31th December 2022

Submitted by: National Hydrographic Office Pakistan

SUMMARY

Executive Summary: Background information and overview of activities undertaken within NAVAREA IX since WWNWS 14

Action to be taken: In accordance with Paragraph 12

Related documents: None

1. General Information:

1.1. Organization

On behalf of Government of Pakistan, Hydrographer of Pakistan (HoP) performs the responsibilities of NAVAREA-IX Coordinator. The National Hydrographic Office (NHO) Pakistan, Ex Pakistan Navy Hydrographic Department (PNHD) at Karachi is the focal point for the services related to Navigational safety. The department is responsible for the transmission of Maritime Safety Information (MSI) to 16 countries of NAVAREA-IX. Limits of NAVAREA IX area are as under:

- | | | | | | |
|----|-----------|-----------|----|-----------|-----------|
| a. | 23° 48'N. | 068° 05'E | c. | 12° 00'N. | 050° 45'E |
| b. | 12° 00'N. | 063° 00'E | d. | 30° 00'N. | 032° 00'E |



1.2. Operational Points of Contacts (POCs) for National Coordinators within the NAVAREA-IX limits are as follows:

Country	Institution	Telephone	Facsimile	Email
Bahrain	MENAS Maritime Operation Centre Bahrain	+973 17810011	+97317725591	m.khurshid@menas.com.bh Rashid.alsuwaidi@slrb.gov.bh
Djibouti	Ministry of Transport and Telecommunication	+253 353475 +253 353208	+253351538	-
Egypt	Egyptian Authority for Maritime Safety (EAFMS)	+20 34801006	+ 2034802233	e.n.h.d@hotmail.com hydro@enhd.gov.eg
Eritrea	Department of Maritime Transport	+291 1 552346, +291 1 552931	+2911 552157	motcrez@eol.com.er
Iraq	Ministry of Transport and communication	-	-	-
Iran	Port and Maritime Organization, Maritime Affairs Department	+9821 84932171 +9821 84932143 +9821 84932152	+9821 8493 2190	parizi@pmo.ir pasandeh@pmo.ir
Jordan	Jordan Maritime Authority	+962 3201 4031	+962 3201 6320	info@aqabaports.gov.jo
Kuwait	Ministry of Communication Marine Department Hydrographic Survey Division	+965 6691 6969	+965 24990333	mazidi@moc.kw.or Kholoud@moc.gov.kw
Oman	Sultanate of Oman, Ministry of Defence, Oman National Hydrographic Office, Royal Navy of Oman	+968 24312350 +968 24322831	+968 24312460	ONHO@mod.gov.om hydromo@mo.gov.om
Pakistan	National Hydrographic Office Pakistan	+9221485 06151 +9221485 06152 +9221485 06821	+ 92 21 99201623 + 92 21 99203246	hydropk@paknavy.gov.pk hydrpk@gmail.com
Qatar	Customs & Ports General Authority, Department of Maritime Affairs & Transport	+974 4426 2100	+974 9426 5454	vjankovic@mme.gov.qa SKandy@mme.gov.qa
Saudi Arabia	Saudi Port Authority	+966 920 000 427 ext 1700	+966 114647589	hydro@gasgi.gov.sa
Somalia	-	-	-	-
Sudan	Sudanese Maritime Administration	+249 918 377 1659	+249 918 379 0189	Profesadig54@rocketmail.com
U.A.E	Federal Transport	+9712651900	+971 2 651691	msd2000@emirates.net

	Authority Land & Maritime	+971 2641 3321	97126415566	.ae admin@uaesurbey.ae
Yemen	Ministry of Transport Maritime Affairs Authority	+9672203521	+967 2 205805	ypa@y.net.ye

1.3. **GMDSS Master Plan:** MSIs related to navigational warnings are issued by NAVAREA-IX coordinator, weather warnings are transmitted by Pakistan Metrological Department (PMD) whereas Maritime Rescue and Coordination Center (MRCC) at Pakistan Maritime Security Agency (PMSA) is looking after all search and rescue related issues.

2. **NAVAREA EGC:** NAVAREA-IX office houses an indigenously developed system to display, monitor and store MSIs. One node of this system is designed to access Land Earth Stations (LES) for MSI transmission purpose.

2.1. **Details of EGC Services:** NAVAREA-IX office transmitted all MSIs through mobile satellite broadcast (INMARSAT & IRIDIUM) at 0300 and 1500 UTC daily during the period under review. Urgent messages are broadcast immediately

Broadcast Equipment/ Software	Broad cast schedule/Satellite	Manufacturer/ Location (LES)/ Implementation
INMARSAT Safety NET	0300 and 1500, IOR	Burum
Iridium Safety Cast	0300 and 1500	Iridium
Monitoring Equipment/ Software		Manufacturer/ Software
Safety NET		Inmarsat C
Iridium Safety Cast		Iridium

2.2. **NAVTEX:** NAVTEX stations coverage area are shown at Annex 'A' and contact details of NAVTEX stations are as under:

B ₁ 518 kHz	B ₁ 490 kHz	NAVTEX Station	Email	Telephone	Status
B	-	Hamala (Bahrain)	info@menas.com.bh	+973 17828541	Ops
V	-	Al Qusayr (Egypt)	hydro@enhd.gov.eg	+20 65 330001	Ops
F	I	Bandar-e-Shahid Rajai (Iran)	abbasradio@pmo.ir	+98 761 4514032	Ops
A	D	Bushehr (Iran)	bushenradio@pmo.ir	+98 771 2530074	Ops
M	-	Muscat (Oman)	ONHO@mod.gov.om	+968 24571400	Off air
P	-	Karachi	hydrpk@gmail.com	+92 21	Off air

		(Pakistan)		45901161	
-	W	Umm Qasr (Iraq)	aqilsarah@yahoo.com	+964 7801440543	Ops
H	O	Jeddah (Saudi Arabia)	navtex@gamep.gov.sa	+966 124 237376	Ops

2.3. **Other methods of promulgation:** For local authorities, fisherman etc., local means of communications are used (VHF, courier, fax etc) to update them with ongoing activities.

3. NAVAREA Matrixes

3.1. NAVTEX information information received for 2021-2022 are as under:

Country	NAVTEX station name	B1 Character or Coastal Warning Area	Broadcast schedule times UTC (only for EGC)	2021			
				Total number of warning broadcasts	Number of warnings broadcast with urgent priority (EGC) or vital (NAVTEX)	Total number of warnings broadcast, including repetitions	Broadcast data in megabytes
Bahrain	Hamala	B	0010 0410 0810 1210 1610 2010	362	-	-	-
Iran	Bushehr	A	-	40	-	680	66
	Bandar-e Shahid Rajaei	F	-	183	-	732	76
Iraq	Umm Qasr	W	-	6	-	24	8

3.2. NAVAREA Warnings Broadcasts:

Provider	2020			2021			2022		
	Total number of warnings issued	Total number of warnings broadcast, including repetitions	Broadcast data in megabytes	Total number of warnings broadcast	Total number of warnings broadcast, including repetitions	Broadcast data in megabytes	Total number of warnings broadcast	Total number of warnings broadcast including repetitions	Broadcast data in megabytes
Safety Net	469	749	0.32	517	649	0.31	526	606	0.29
Safety Cast	469	-	-	517	-	-	526	-	-

3.3. Urgent EGC Warnings:

NIL

3.4. VITAL Coastal Warnings:

NIL

3.5. In-force warnings:

3.5.1. **In-force bulletins issued:** Yes, enforced bulletins are uploaded on website on every Saturday. Bulletins remain available on website till cancellation. All warnings issued each week are published in weekly edition of Pakistan Notices to Mariners (PNTM) bulletin Section II.

3.5.2. **Requests for In-force warnings:** The following table shows the number of requests to NAVAREA IX for a list of enforced navigational warnings of last 03 years:

Year	2020	2021	2022
Total	363	407	256

4. **Operational Issues:** Nil

5. National Coordinator Communication:

5.1. IRCC Strategic Performance Indicator: NAVAREA IX did not receive any information in 2021 and 2022 from the following Coastal States:

<u>Coastal State / Country</u>	<u>Information Received</u>
Somalia	None
Djibouti	None
Eritrea	None
Sudan	None
Jordan	None

Details of information received from various Coastal States are as under:

Coastal State/ Country	E-mails	Fax	Letters
Pakistan	31		49
Bahrain (MENAS) (Qatar, UAE, Kuwait, and Iraq)	362		
Dubai	07		
Saudi Arabia	24		
Oman	08		
Egypt	02		
Iran	12		07
Miscellaneous (Information's received from various sources)	12		

5.2. **Procedures:** NAVAREA-IX coordinator communicates with all National Coordinators of NAVAREA-IX to promulgate warnings. However no navigational warning was received from following member states during period under review:

Somalia
Djibouti
Eritrea
Sudan
Jordan

6. **Contingency Planning:**

An internal contingency plan is held. As an external contingency plan, collaboration with NAVAREA VII (South Africa) is agreed.

7. **Capacity Building:**

Concept of MSI is relatively new. Therefore, capacity building programs including courses held under ambient of IHO for developing countries will help in improving effectiveness of national centers for NAVAREA warnings.

8. **Other Activities:**

NHO / NAVAREA IX has been at the forefront in taking active part in IHO related activities. Pakistan recently attended North Indian Ocean Hydrographic Commission (NIOHC) and Regional Sea Area Hydrographic Commission (RSAHC) meetings held in Indonesia and Oman respectively.

9. **NAVAREA Website:** Navigation warnings are uploaded on NHO Pakistan website 'hydrography.paknavy.gov.pk' on daily basis.

10. NAVAREA Contact Information:

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 hydrpk@gmail.com

Tel: +92 21 48506151-2, +92 21 48506821,
 +92 21 48506819, +92 333 2104611

Fax: +92 21-99201623, +92 21 99203246

Address: HQ NAVAREA IX
 National Hydrographic Office
 Naval Headquarters
 11, Liaquat Barracks
 Karachi – 75530
 PAKISTAN

11. Recommendations:

MSI courses for NAVAREA IX countries may be organized by IHO for active and effective participation of member states.

12. Actions requested:

The Commission is requested to note this report.

13. Summary:

The above is provided as NAVAREA IX self-assessment report for the 15th WWNWS-SC meeting. Coordinator NAVAREA-IX transmits MSIs for all 16 countries in the region. Navigational Warnings are promulgated via INMARSAT and IRIDIUM satellites with all warnings being included in the weekly NTMs. All in-forced warnings and NTMs are regularly posted and monitored on NAVAREA IX website as well. NAVAREA IX accesses both service providers via internet and all broadcasts of both systems are monitored. Karachi NAVTEX station is under up gradation and hence Coastal Warnings are being transmitted via Safety Net/ Safety Cast. The reception of all the NAVAREA warnings promulgated through Safety Net/ Safety Cast and coastal warnings are monitored at NHO through respective terminals at communication center.

