

## MSI Assessment for NAVAREA-IX

Reporting period from 1<sup>st</sup> Jan 2021 to 31<sup>th</sup> December 2021

Submitted by: Pakistan

### SUMMARY

**Executive Summary:** Background information and overview of activities undertaken within NAVAREA IX since WWNWS 13

**Action to be taken:** In accordance with Paragraph 12

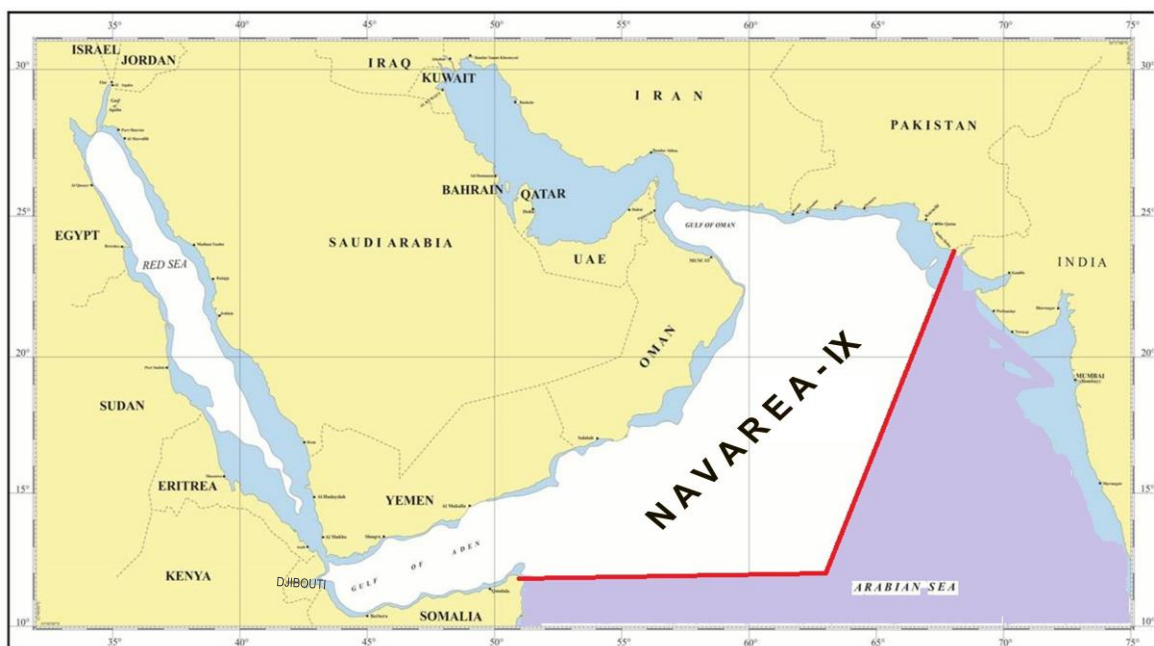
**Related documents:** None

## 1. General information:

### 1.1. Organization.

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

- |    |            |            |    |            |            |
|----|------------|------------|----|------------|------------|
| 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 Contact for National Co-ordinators within the NAVAREA-IX:

| COUNTRY      | INSTITUTION   | TELEPHONE  | FACSIMILE                            | EMAIL                                      |
|--------------|---|--|--------------------------------------|--|
| Bahrain      | MENAS Maritime Operation Centre Bahrain   | +973 17810021                                      | +97317725591                         | m.khurshid@menas.com.bh                    |
| Djibouti     | Ministry of Transport and Telecommunication   | +253 353475<br>+253 353208                         | +253351538                           | -  |
| Egypt        | Egyptian Authority for Maritime Safety (Eafms)  | +20 34802233                                       | + 20 4875633                         | e.n.h.d@hotmail.com<br>hydro@enhd.gov.eg   |
| Eritrea      | Department of Maritime Transport  | +291 1 552346,<br>+291 1 552931                    | +2911 552157                         | motcrez@eol.com.er                         |
| Iraq         | Ministry of Transport and communication   | -  | -                                    | -  |
| Iran         | Port and Maritime Organization, Maritime Affairs Department                                   | +9821 88651116<br>+9821 84932143<br>+9821 84932152 | +9821 84932675                       | aparizi@pmo.ir<br>parizi@pmo.ir            |
| Jordan       | Jordan Maritime Authority   | +962 32014031<br>+962 32016320                     | +962 32015858<br>+962 320116320      | info@aqabaports.gov.jo<br>Jma@Jma.gov.Jo   |
| Kuwait       | Ministry of Communication Marine Department Hydrographic Survey Division                      | +965 24990333                                      | +965 24990333                        | mazidi@moc.kw.or                           |
| Oman         | Sultanate of Oman, Ministry of Defence, Oman National Hydrographic Office, Royal Navy of Oman | +968 24312350<br>+968 24322831                     | +968 24312460                        | ONHO@mod.gov.om<br>hydromo@mo.gov.om       |
| Pakistan     | Pakistan Navy   | +9221485 06151<br>+9221485 06152<br>+9221485 06821 | + 92 21 99201623<br>+ 92 21 99203246 | hydropk@paknavy.gov.pk<br>hydrpk@gmail.com |
| Qatar        | Customs & Ports General Authority, Department of Maritime Affairs & Transport                 | +974 44955947                                      | +974 44955947                        | vjankovic@mme.gov.qa                       |
| Saudi Arabia | Saudi Port Authority  | +96614532161                                       | +966 14 532161                       | hydro@gdms.gov.sa                          |
| Somalia      | -   | -  | -                                    | -  |
| Sudan        | Sudanese Maritime Administration  | +2491171659  | -                                    | -  |
| U.A.E        | Federal Transport Authority Land & Maritime   | +9712651900  | +971 2 651691                        | msd2000@emirates.net.ae                    |
| Yemen        | Ministry of Transport Maritime Affairs Authority  | +9672203521  | +967 2 205805                        | ypa@.net.ye                                |

1.3. **GMDSS Master Plan:** MSIs related to navigational warnings are issued by NAVAREA-IX, Weather warnings are transmitted by Pakistan Metrological Department whereas MRCC at Pakistan Maritime Security Agency 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 LES stations for MSI transmission purpose.

2.1. **Details of EGC Services:** NAVAREA-IX transmitted all MSIs through mobile satellite broadcast (INMARSAT & IRIDIUM) at 0300 and 1500 UTC (urgent message anytime)

| <b>Broadcast Equipment/Software Examples</b> | <b>Broad cast schedule/Satellite Examples</b> | <b>Manufacturer/Location (LES)/Implementation Examples</b> |
|--|---|--|
| <i>INMARSAT SafetyNET</i>                    | <i>0300 and 1500, IOR</i>                     | <i>Burum</i>   |
| <i>Iridium SafetyCast</i>                    | <i>0300 and 1500</i>                          | <i>Iridium</i>   |
|  |   |  |
| <b>Monitoring Equipment/Software</b>         |   | <b>Manufacturer/Software</b>                               |
| <i>SafetyNET</i>                             |   | <i>Inmarsat C</i>  |
| <i>Iridium SafetyCast</i>                    |   | <i>Iridium</i>   |

2.2. **NAVTEX:** NAVTEX station coverage at Annex 'A' and details of contact is as under:

| B <sub>1</sub><br>518<br>kHz | B <sub>1</sub><br>490<br>kHz | NAVTEX Station               | Email                   | Telephone            | Status  |
|------------------------------|------------------------------|------------------------------|-------------------------|----------------------|---------|
| B                            | -                            | Bahrain                      | m.khurshid@menas.com.bh | +973 883939 / 883543 | 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        | Ops     |
| P                            | -                            | Karachi (Pakistan)           | hydrpk@gmail.com        | +92 21 45901161      | Off air |
| -                            | 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 used (VHF, courier, fax etc) to update them with ongoing activities.

### 3. NAVAREA Metrics

3.1. Data of NAVTEX Stations in NAVAREA-IX is not available.

### 3.2. NAVAREA Warnings Broadcasts:

| Provider   | 2019                            |   |                             | 2020                               |   |                             | 2021                               |   |                             |
|------------|---------------------------------|---|-----------------------------|------------------------------------|---|-----------------------------|------------------------------------|---|-----------------------------|
|            | 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 |
| SafetyNet  | 453                             | 987   | 4.72                        | 469                                | 749   | 2.54                        | 517                                | 649   | 2.46                        |
| SafetyCast | -                               | -   | -                           | 469                                | -   | -                           | 517                                | -   | -                           |

### 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. Bulletin remain available on website till cancellation. All warnings issued each week are published in weekly edition of Pakistan Notices to Mariners 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 enforce navigational warnings of last 03 years:

| Year  | 2019 | 2020 | 2021 |
|-------|------|------|------|
| Total | 425  | 363  | 407  |

### 4. Operational Issues: Nil

### 5. National Co-ordinator Communication:

5.1. IRCC Strategic Performance Indicator: NAVAREA IX did not receive any information in 2020 and 2021 from the following Coastal States:

| <u>Coastal State / Country</u> | <u>Information Received</u> |
|--------------------------------|-----------------------------|
| Somalia                        | Non                         |
| Djibouti                       | Non                         |
| Eritrea                        | Non                         |
| Sudan                          | Non                         |
| Jordan                         | Non                         |

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

| Coastal State / Country   | E-mails | Fax | Text |
|---|---------|-----|------|
| Pakistan  | 08      | 05  | 70   |
| Bahrain (MENAS)<br>(Qatar, UAE, Kuwait,<br>and Iraq )             | 291     |     |      |
| Dubai   | 08      |     |      |
| Saudi Arabia  | 20      |     |      |
| Oman  | 08      |     |      |
| Egypt   | 02      |     |      |
| Iran  | 05      | 01  | 12   |
| Yemen   | 03      |     |      |
| Miscellaneous<br>(Information's received from<br>various sources) | 15      |     |      |

5.2. **Procedures:** NAVAREA-IX is fully equipped to communicate with other member states however no response was received from following member states:

Somalia  
Djibouti  
Eritrea  
Sudan  
Jordan

#### 6. **Contingency Planning:**

Internal contingency plan is held. As an external contingency plan, collaboration with NAVAREA VII (South Africa) is agreed and exercise in this regard is being planned.

#### 7. **Capacity Building:**

MSI courses for NAVAREA IX countries may be organized from IHO capacity building for active and effective participation.

## 8. Other Activities:

NHO / NAVAREA IX has been at the forefront in taking active part in IHO related activities. Pakistan recently attended NIOHC meeting held in Indonesia.

9. **NAVAREA Website:** Developed a new website 'hydrography.paknavy.gov.pk' where enforced navigation warnings are uploaded on daily basis.

## 10. NAVAREA Contact Information:

### **REAR ADMIRAL JAWAD AHMED SI(M)**

Hydrographer of Pakistan

Email: hydropk@paknavy.gov.pk  
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 from IHO capacity building for active and effective participation.

## 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 14<sup>th</sup> WWNWS-SC meeting. Coordinator NAVAREA-IX transmits MSI for the 16 countries in the region. Navigational Warnings are promulgated via INMARSAT and IRIDIUM with all warnings being included in the Notice to Mariners which is published once per week. All in-force 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 also being transmitted via SafetyNET/Safetycast. The reception of all the NAVAREA warnings promulgated through SafetyNET/Safetycast and coastal warnings are monitored at NHO through respective terminals at communication center.

