

## MSI Assessment for NAVAREA VII

*Reporting period from 1st Jan 2023 to 31th December 2023*

To be submitted by Republic of South Africa (RSA) to WNWNS, 2 – 6 September 2024.

### SUMMARY

Executive Summary: *This document provides MSI information related to NAVAREA VII for the period 1st Jan 2023 to 31th December 2023.*

Action to be taken: *Report to be noted by the WNWNS16 Meeting.*

Related documents: *Annex A. Self-Assessment Spreadsheet*

#### 1. General information:

##### 1.1. Geographic Boundaries of NAVAREA VII including boundaries for any coastal warning Areas and NAVTEX Stations:

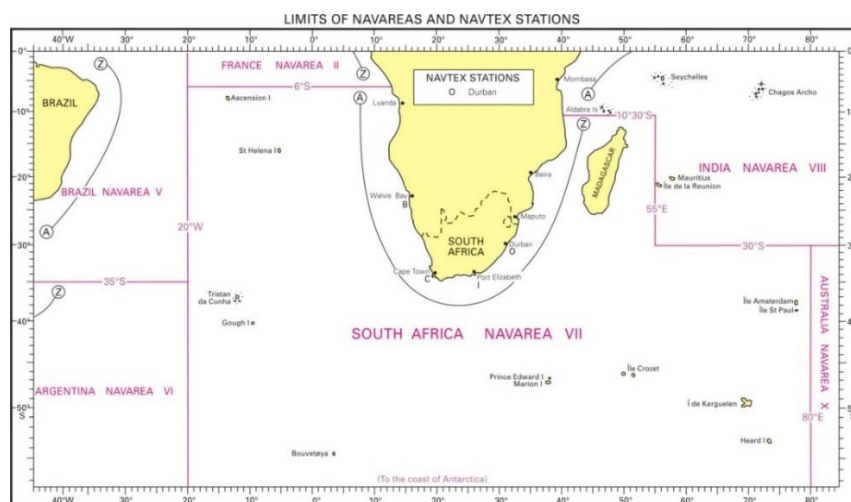
Southern Africa – South Atlantic Ocean (AOR-E):

6° 00'S, 020° 00'W (Angola international border with The Democratic Republic of the Congo (DRC),  
(West Coast) to the coast of Antarctica

and

Southern Africa – Indian Ocean (IOR):

10° 30'S, 055° 00'E (Mozambique international border with Tanzania, (East Coast) to  
30° 00'S, 055° 00'E to  
30° 00'S, 080° 00'E to the coast of Antarctica.



## 1.2. Operational Points of Contact for National Co-ordinators within the NAVAREA

| COUNTRY      | INSTITUTION                               | TELEPHONE                      | FACSIMILE     | EMAIL                |
|--------------|---|--------------------------------|---------------|----------------------|
| South Africa | South African Navy<br>Hydrographic Office | +27 217872445<br>+27 217872408 | +27 217872233 | hydrosan@iafrica.com |

1.3. GMDSS Master Plan: Annex 1 and 7 reflect the following discrepancies, and the correct information to update the Master Plan is to be provided to the IMO (*in progress*).

Annex 1: The status of shore based facilities for GMDSS is up to date, except for Namibia that still indicated P for NAVTEX. The NAVTEX station at Walvis Bay is operational, and the Master Plan requires to be updated to reflect the current status.

Annex 7: The Cape Columbine and Walvis Bay NAVTEX stations are operational and the Master Plan should be updated to reflect that status.

### STATUS OF SHORE BASED FACILITIES FOR GMDSS

| Country      | A1 Area | A2 Area | A3/A4 Area | NAVTEX | SafetyNET II/SafetyCast | RCCs & SESs         |
|--------------|---------|---------|------------|--------|-------------------------|---------------------|
| Angola       | -       | -       | P          | No     | Yes                     |                     |
| Madagascar   | -       | -       | P          | No     | Yes                     |                     |
| Mauritius    | -       | -       | Yes        | No     | Yes                     |                     |
| Comores      | -       | -       | NI         | NI     | Yes                     |                     |
| Mozambique   | Yes     | Yes     | P          | No     | Yes                     |                     |
| Namibia      | -       | -       | P          | Yes    | Yes                     |                     |
| South Africa | Yes     | -       | Yes        | Yes    | Yes                     |                     |
| France       | -       | -       | -          | No     | Yes                     | Yes<br>(La Reunion) |

P = Planned or to be decided

NI = No Information

2. NAVAREA EGC broadcast and monitoring equipment or software:

2.1. Details of EGC services:

| Broadcast Equipment/Software    | Broad cast schedule/Satellite | Manufacturer/Location (LES)/Implementation                                 |
|---------------------------------|-------------------------------|--|
| <i>SafetyNET II</i>             | <i>0940 and 1940 UTC</i>      | <i>Inmarsat</i>  |
| <i>Iridium SafetyCast</i>       | <i>0940 and 1940 UTC</i>      | <i>Iridium</i>   |
| <i>Iridium SafetyCast</i>       |                               | <i>Operational, Possibly Require cost assistance; IMO not yet notified</i> |
| <i>Navtex 518 khz nbdp</i>      |                               |  |
| <i>MSI via VHF and HF voice</i> |                               |  |

| <b>Monitoring Equipment/Software</b>     |
|--|
| <i>SafetyNET II</i>                      |
| <i>SafetyCAST (ver 32.5.4)</i>           |
| <i>Frequentis T&amp;T Message Centre</i> |
| <i>Frequentis PC Dispatcher</i>          |

2.2. NAVTEX:

| <b>Station</b>            | <b>Transmitter Identification Character (T.I.C) – B1 Character</b> | <b>Status</b>      | <b>Contact No</b>  |
|---------------------------|--|--------------------|--|
| Walvis Bay Maritime Radio | <b>B</b>   | <i>Operational</i> | +264 64 203581 (24H)<br>Mobile: +264 811242697   |
| Cape Town                 | <b>C</b>   | <i>Operational</i> | +27 21 551 0700<br>Port Elizabeth, Cape Columbine and Durban is remotely controlled from CT Radio. |
| Port Elizabeth            | <b>I</b>   | <i>Operational</i> |  |
| Durban                    | <b>O</b>   | <i>Operational</i> |  |
| Cape Columbine            | <b>U</b>   | <i>Operational</i> |  |

2.3. Other methods of promulgation: Nil.

3. NAVAREA Metrics

3.1. Coastal Warnings issued by International NAVTEX or EGC coastal warning area:

| <b>2023</b>         |                            |   |  |   |  |  |   |
|---------------------|----------------------------|---|--|---|--|--|---|
| <i>Country</i>      | <i>NAVTEX station name</i> | <i>B1 Character or Coastal Warning Area</i> | <i>Broadcast schedule times UTC (only for EGC)</i> | <i>Total number of warnings broadcast</i> | <i>Number of warnings broadcast with urgent priority (EGC) or vital (NAVTEX)</i> | <i>Total number of warnings broadcast, including repetitions</i> | <i>Broadcast data in megabytes</i>                      |
| <i>South Africa</i> | <i>Cape Town</i>           | <b>C</b>                                    | -  | <b>550</b>                                | <i>Information not available at time of submission.</i>                          | <i>Information not available at time of submission.</i>          | <i>Information not available at time of submission.</i> |
|                     | <i>Port Elizabeth</i>      | <b>I</b>                                    | -  |   |  |  |   |
|                     | <i>Durban</i>              | <b>O</b>                                    | -  |   |  |  |   |
|                     | <i>Cape Columbine</i>      | <b>U</b>                                    | -  |   |  |  |   |
| <i>Namibia</i>      | <i>Walvis Bay</i>          | <b>B</b>                                    | -  |   |  |  |   |
| <b>2024</b>         |                            |   |  |   |  |  |   |
| <i>Country</i>      | <i>NAVTEX station name</i> | <i>B1 Character or Coastal Warning Area</i> | <i>Broadcast schedule times UTC (only for EGC)</i> | <i>Total number of warnings broadcast</i> | <i>Number of warnings broadcast with urgent priority (EGC) or vital (NAVTEX)</i> | <i>Total number of warnings broadcast, including repetitions</i> | <i>Broadcast data in megabytes</i>                      |
| <i>South Africa</i> | <i>Cape Town</i>           | <b>C</b>                                    | -  | <b>437<br/>(12/08/2024)</b>               | <i>Information not available at time of submission.</i>                          | <i>Information not available at time of submission.</i>          | <i>Information not available at time of submission.</i> |
|                     | <i>Port Elizabeth</i>      | <b>I</b>                                    | -  |   |  |  |   |
|                     | <i>Durban</i>              | <b>O</b>                                    | -  |   |  |  |   |
|                     | <i>Cape Columbine</i>      | <b>U</b>                                    | -  |   |  |  |   |
| <i>Namibia</i>      | <i>Walvis Bay</i>          | <b>B</b>                                    | -  |   |  |  |   |

### 3.2. NAVAREA Warnings broadcasts:

| Provider   | 2022                            |   |  | 2023                               |   |  | 2024                               |   |  |
|------------|---------------------------------|---|--|------------------------------------|---|--|------------------------------------|---|--|
|            | 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  | 467                             | Information not available at time of submission.          | Information not available at time of submission. | 365                                | Information not available at time of submission.          | Information not available at time of submission. | 265<br>(12/08/2024)                | Information not available at time of submission.          | Information not available at time of submission. |
| SafetyCast | 467                             | Information not available at time of submission.          | Information not available at time of submission. | 365                                | Information not available at time of submission.          | Information not available at time of submission. | 265<br>(12/08/2024)                | Information not available at time of submission.          | Information not available at time of submission. |

3.3. Urgent EGC Warnings: *Information not available at time of submission.*

3.4. VITAL Coastal Warnings: *Information not available at time of submission.*

3.5. In-force warnings.

3.5.1. In-force bulletins issued: All “In Force warnings” are published on the SANHO website in summary and full text bulletin format.

3.5.2. Requests for In-force warnings:

| 2022               | 2023               | 2024              |
|--------------------|--------------------|-------------------|
| Total              | Total              | Total             |
| 195 <i>Approx.</i> | 167 <i>Approx.</i> | 82 <i>Approx.</i> |

3.6. Arctic navigational warnings broadcast by HF NBDP. Nil.

4. Operational Issues: Angola and Iles Comores has been encouraged to communicate with the NAVAREA VII Coordinator and to adapt to the GMDSS and to implement MSI measures accordingly so that, where the degrees of hazard are known, that this information may be disseminated to warn mariners operating in the relevant area. Although Angola has improved its communication with South Africa, further growth in the promulgation of MSI with Angola is encouraged. For the safety of life, MSI awareness must be improved and the installation of radio communication equipment and the associated operator training is imperative. The lack of NAVTEX Stations north of South African borders, namely Angola, Mozambique and Madagascar, is a persistent challenge. The installation of radio communication network equipment, and operator training, are the two most important components that need to be addressed.

The African Great Lakes And Rivers Sub-Working Group (AGL&RSWG), in conjunction with the East African Community Lake Victoria Basin Commission meeting held in December 2022 in Lilongwe highlighted the lack of, and subsequent actions taken to improve safety on Lake Victoria. Aids to navigation (including radio navigation aids) plays a key part in the various projects. The RSA thanks the UKHO, the AGL&RSWG and East African Community Lake Victoria Basin Commission for the great work being done in this regard to address the gap in navigation safety broadcasts that has persisted in the region.

5. National Co-ordinator Communication:

5.1. IRCC Strategic Performance Indicator: NAVAREA VII did not receive any MSI in 2022 or 2023 from the following Coastal States:

United Kingdom

Norway

Comoros

5.2. Procedures. NAVAREA VII communicates with all National Coordinators either via email or telephone during the period for this report.

6. Contingency Planning:

NAVAREA VII. To ensure the continuous operational capability of MSI dissemination via SATCOM C SafetyNET II, a contingency plan exists between South Africa, France and Australia. The contingency plan has is to be tested before the end of the next reporting period, and there has been no requirement to activate the plan for an actual emergency scenario. This plan was tested when South Africa was on SafetyNET I and not on SafetyNET II or Iridium. The contingency plan must be communicated to the Satellite Service providers, to allow access to the various NAVAREAS like Australia and France.

7. Capacity Building: WNWNS have identified Capacity Building initiatives with MSI as a very important first phase component. The IHO Capacity Building Sub-Committee (CBSC) has established a capacity building fund (CBF) to facilitate seed-corn activities such as technical workshops, visits and training courses within the region. As part of the SAIHC16 meeting in September 2019 in Cape Town, MSI responsibilities and capacity building initiatives was on the agenda for discussion.

The possible hosting of capacity building initiatives at the SANHO Training Facility was discussed, as well as an eLearning initiative hosted by the SANHO, in order to facilitate capacity building initiatives into the future. The eLearning package, which focuses on MSI, has been developed and rolled out. This initiative was strongly supported by both Chairpersons of the WNWNS and SAIHC. South Africa has also joined the Capacity Building eLearning Project Team to share information and knowledge. Capacity building within the SA Navy structures is an ongoing process to ensure radio operators at NAVCOMCEN CAPE, the node for MSI distribution between the SANHO and Telkom Radio Services, are kept up to date and qualified.

8. Other Activities: MSI awareness must be improved and the installation of radio communication equipment and associated operator training is imperative. The continuous efforts of WNWNS through courses, technical visits and discussions at conferences are aimed to achieve this objective.

9. NAVAREA Website: ([http://www.sanho.co.za/\\_navarea7\\_bulletins/bulletin.htm](http://www.sanho.co.za/_navarea7_bulletins/bulletin.htm)) SafetyNET and NAVTEX messages are published on both the website and internal SA Navy website (Intranet) and updated daily during office hours from Mon to Fri (07:30 – 16:00 SAST). All navigational warnings in force are published and displayed on the SA Navy Intranet, as well as the Internet. These include messages older than 42 days.

10. NAVAREA Contact Information:

Urgent navigation information (24 Hour Service):

Fax : +27 21 787 2228

E-mail : ncc@sanavy.co.za (navcomcen.cape@gmail.com used as back-up)

Other navigation information (0730 - 1600 SAST Mon - Fri):

Fax : +27 21 787 2233

Phone : +27 21 787 2445/2444

E-mail : hydrosan@iafrica.com

General information (0730 - 1600 SAST Mon - Fri):

Phone : +27 21 787 2408

11. Recommendations: Angola, Madagascar and Iles Comores are encouraged to communicate with the NAVAREA VII Coordinator, adapt to the GMDSS and implement MSI measures accordingly so that, where the degrees of hazard are known, that this information may be disseminated to warn mariners operating in the relevant area.

The lack of NAVTEX Stations north of South African borders, namely Angola, Mozambique and Madagascar, is a persistent challenge. The installation of radio communication network equipment, and operator training, are the two most important components that need to be addressed. This requirement is constantly communicated to the delegates of these countries at SAIHC Conferences. The work done through the AGL&RSWG and East African Community Lake Victoria Basin Commission is to be encouraged in order to address the lack of radio/text navigation information in the region.

12. Actions requested: Report to be noted by the SAIHC20.

13. Summary:

- a. The lack of NAVTEX Stations north of South African borders, namely Angola, Mozambique and Madagascar, is a persistent challenge. The installation of radio communication network equipment, and operator training, are the two most important components that need to be addressed.
- b. The slow progress and the lack of adequate MSI implementation by States in the Great Rift Valley in the Southern African region remains a persistent matter of concern.
- c. South Africa continues to assist and cooperate with Iridium SafetyCAST broadcasting within NAVAREA VII, broadcasting both MSI as well as meteorology warnings and broadcasts via the South African Weather Service.