

MSI Self Assessment – NAVAREA VII

Submitted by: South Africa

SUMMARY

Executive Summary: This document provides MSI information related to NAVAREA VII

Action to be taken: Report to be noted by the WWNWS 9 Meeting.

Related documents: None.

1. Background.

The South African Hydrographic Office, Coordinator of NAVAREA VII, in conjunction with the South African Meteorological Service, promulgates and disseminates shipping safety messages and weather information. Cape Town Radio is the GMDSS service provider and as such, transmits all MSI on behalf of the Coordinator.

SafetyNET

MSI transmission is to the Indian Ocean Region and to the Atlantic Ocean Region East.

Meteorological Forecasts and NAVAREA VII Warnings: 0940 and 1940 UTC.

Land Earth Station 12 Burum; Service Provider: Stratos Mobile Networks.

NAVTEX

NAVTEX coverage out to 200 nm from the Namibian and South African Coasts is passed from the Coast Radio Stations at Cape Town (**C**), Port Elizabeth (**I**) and Durban (**O**). The Coast Radio Station at Walvis Bay, Namibia (**B**) NAVTEX service is not operational. Cape Town Radio includes Namibian Maritime Safety Information with its scheduled NAVTEX and SafetyNET MSI broadcasts. Plans are currently formulated to bring a dedicated Namibian NAVTEX service back into operation.

Radio Telephony

South Africa

For the benefit of non-GMDSS adapted vessels, the Cape Town, Port Elizabeth and Durban Radio Coastal Weather Bulletins and Navigational Warnings in force are combined and presented as one single-voice broadcast from Cape Town Radio at 1015 and 1815 UTC daily. The coastal weather report as at 1200 UTC is broadcast at 1333 UTC. Transmission is on HF on 4375, 8740 and on 13146 kHz and on 27 VHF traffic channels sited around the South African coast from Alexander Bay in the West to Kosi Bay in the East.

Namibia

All RT MSI broadcasts are on VHF LZ Ch23; WVS Ch26 & 27 and on HF: 4357 & 8719 kHz

0903 UTC: Navigational Warnings

0935 UTC: Weather Forecasts and Traffic List

1235 UTC: Coastal Weather Reports

1635 UTC: Weather Forecasts and Traffic List

Newly received navigational warnings are broadcast on receipt and thereafter are included in the once daily navigational warning broadcast at 0903 UTC.

Geographical Limits of NAVAREA VII:

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.

Operational Point of Contact for the National Coordinator within NAVAREA VII is:

Country	Telephone	Facsimile	Email
South Africa	+27 21 787 2445 +27 21 787 2408	+27 21 787 2233	hydrosan@iafrica.com

Port Control Vessel Traffic Services in South African hub ports provide information necessary for safe navigation within VTS routes and port approaches.

SafetyNET coverage is available through the NAVAREA VII Coordinator for Angola, Namibia, Mozambique and Madagascar.

Although no MSI reports are received from **Angola**, the **Oil and Gas Industry** regularly reports on the movements of rigs, as well as other industry related matters. This information is published as a NAVAREA VII warning in the form of a rig list. The concern remains that Angola does not report on MSI related matters in terms of events taking place on its coastal areas and ports. Vessels transiting NAVAREA VII report MSI via coast radio stations or directly to SANHO. Resulting broadcasts are made via NAVTEX and SafetyNET.

The **Namibian Port Authority (NAMPORT)** is in regular contact with the NAVAREA VII Coordinator and as such, both SafetyNET and NAVTEX MSI concerning the Namibian coast are provided for promulgation by the South African Navy Hydrographic Office. MSI reports mainly consist of gunnery exercise warnings, port construction operations and the status of Aids to Navigation.

The **Mozambique Institute of Hydrography and Navigation (INAHINA)** promulgate monthly Notices to Mariners. Relevant MSI is passed to the NAVAREA VII Coordinator for transmission on SafetyNET. MSI reports mainly consist of Aids to Navigation being out of order.

Few MSI reports are received from **Madagascar** and mainly consist of the deployment of Aids to Navigation and related equipment being out of order.

There remains a lack of communication from **Iles Comores**.

La Reunion does not fall within NAVAREA VII, however, due to the island's location being relatively close to the eastern limit of the NAVAREA VII, regular MSI reports are received. This mainly consists of gunnery exercise warnings and reports regarding objects reported adrift ie small vessels, buoys, etc. This remains an important part of the service as mariners proceeding from NAVAREA VII to NAVAREA VIII are warned timeously of events taking place around the island of La Reunion.

Copies of NAVAREA Messages are received from the Coordinators of NAVAREAS II, VI, VIII and XI. Where necessary, MSI relevant to an adjacent area is retransmitted for the benefit of transiting traffic.

There is a lack of NAVTEX transmitting stations north of the South African international borders and there is still no apparent acquisition of MSI transmitting apparatus or implementation of MSI dissemination by States in the Great Rift Valley in the Southern African region.

2. **Comments.**

Equipment Type	Software Version	Date of Up-date
SafetyNET MSI via E-mail (SATCOM C)	N/A	N/A
Navtex 518 kHz NBDP	N/A	N/A
MSI via VHF and HF voice broadcast	N/A	N/A

The GMDSS Master Plan for NAVAREA VII is up to date.

SafetyNET Messages Promulgated

2014 (403)				2015 (379)				2016 (338)			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
134	269	Nil	Nil	129	250	Nil	Nil	112	226	Nil	Nil

NAVTEX coverage out to 200nm from the South African Coast is passed from the Coast Radio Stations at Cape Town (**C**), Port Elizabeth (**I**) and Durban (**O**). The Coast Radio Station at Walvis Bay, Namibia (**B**) NAVTEX, is currently not operational. These Coastal Navigation Warning messages are also transmitted by voice twice a day for the benefit of fishing vessels and leisure craft. See diagram attached at end of document.

Coastal Navigational Warning Messages Promulgated

2014 (708)				2015 (766)				2016 (581)			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
236	472	Nil	Nil	261	505	Nil	Nil	193	388	Nil	Nil

NAVAREA VII Messages with Immediate Priority

2014		2015		2016	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
	N/A		N/A		N/A

Requests for list of in-force navigational warnings

Due to the complexity to calculate the values in terms of request for in-force navigational warnings dating back to 2014, an average of approximately 160 per annum appears to be the norm. All relevant requests are received via email only.

3. **NAVTEX Coverage.**

Contact details for NAVTEX Stations (Operational status is confirmed)

Station	Transmitter Identification Character (T.I.C) – B1 Character	Contact No
Walvis Bay Maritime Radio	B	+264 64 203581 (24H) Mobile: +264 811242697
Cape Town (CT)	C	+27 21 551 0700
Port Elizabeth	I	PE and Durban is remotely controlled from CT Radio.
Durban	O	

4. **Operational Issues.** Angola and Iles Comores should be 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. 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, including Namibia, 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 current state of MSI in the SAIHC Region is listed in the GMDSS table below:

STATUS OF SHORE BASED FACILITIES FOR GMDSS

Country	A1 Area	A2 Area	A3/A4 Area	NAV TEX	SafetyNET	Notes
Angola	P	P	P	No	Yes	Coastal warnings broadcast by SafetyNet
Kenya	P	P		No	NAVAREA VIII	
Madagascar	P	P		No	Yes	Coastal warnings broadcast by SafetyNet
La Reunion	No	No	Yes	No	Yes	Coastal warnings broadcast by SafetyNet
Malawi	NI	NI	NI			
Mauritius	Yes	Yes	P	Yes	NAVAREA VIII	
Mozambique	P	Yes	P	No	Yes	Coastal warnings broadcast by SafetyNet
Namibia	P	P	P	No	Yes	Coastal warnings broadcast by SafetyNet
Seychelles	P	P	P	No	NAVAREA VIII	
South Africa	P	NI	Yes	Yes	Yes	
Tanzania	P	P	P	No	NAVAREA VIII	
Uganda	NI	NI	NI			

P = Planned or to be decided

NI = No Information

Note: South Africa Area A2 not planned. Ultimately, DSC on 2187.5 kHz will not be introduced. Watch-standing on 2182 kHz will be discontinued, but not before introducing DSC on VHF Ch70. This is planned for 2017, but the actual implementation is still to be established.

5. **Quality Management Survey.**

NAVAREA	ISO 9001 - 2000	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
VII	No	Yes	Yes	Yes	Yes	Yes	Yes

6. **Contingency Planning.** To ensure the continuous operational capability of MSI dissemination via SATCOM C SafetyNET, contingency plans have been proposed and agreed in principle between South Africa, France and Australia. During November 2014, the back-up service as per agreement between South Africa, France and Australia was successfully implemented and tested.

7. **Capacity Building.** SAIHC 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. MSI training courses have been conducted in Mozambique, Maputo, Namibia and South Africa and a Phase 1 Skills and Charts and Awareness Course was conducted in November 2012 in South Africa and in Namibia in July 2016. The next IHO SAIHC MSI Course will be held at Fish Hoek, Republic of South Africa, from the 05 to 07 September 2017.

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 SAIHC 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).**

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). The date and time is displayed at the very top of the messages in force. Outside normal office hours, MSI is monitored by Cape Naval Radio who provides a 24H watch-keeping service and is in constant telephone contact with the MSI Officer. Cape Town Radio is the primary 24H service operator responsible for the dissemination of MSI messages. 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 VII Contact Information.**

Urgent navigational information (24 Hour Service):

Fax : +27 21 787 2228

E-mail : navcomcen.cape@sanavy.co.za

Other navigational information (0730 - 1600 Mon - Fri) :

Fax : +27 21 787 2233

Phone : +27 21 787 2445/2444

E-mail : hydrosan@iafrica.com

General information (0730 - 1600 Mon - Fri) :

Phone : +27 21 787 2408

11. **Recommendations.** Angola and Iles Comores should be encouraged to communicate all relevant MSI matters to the NAVAREA VII Coordinator in order to disseminate these potentially hazardous matters to mariners operating in the relevant areas of interest. This requirement is constantly communicated to the delegates of these countries at SAIHC Conferences.

12. **Action requested.** Report to be noted by the WNWNS 9 Meeting.

13. **Summary.**

- a. There remains a lack of NAVTEX Stations north of the South African international borders. Plans are currently formulated to bring a dedicated Namibian NAVTEX service back into operation.
- 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. The RHC (SAIHC) continuously strives to instill the awareness of maritime safety and encourages the implementation of MSI measures by member states.
- d. A contingency plan arrangement between NAVAREA VII and NAVAREA II with the latter acting as backup for the AOR-E and NAVAREA X acting as backup for the IOR have been agreed upon.
- e. All navigational warnings in force at are published and available at **<http://www.sanho.co.za/navarea7/bulletins/bulletin.htm>**. These include messages older than 42 days.

LIMITS OF NAVAREAS AND NAVTEX STATIONS

