

# NATIONAL REPORT FROM REPUBLIC OF SOUTH AFRICA TO THE SAIHC16

16TH MEETING OF THE SOUTHERN AFRICAN AND ISLANDS  
HYDROGRAPHIC COMMISSION (SAIHC16)  
Cape Town, South Africa, 2 - 5 September 2019



International Hydrographic Organization  
*Organisation Hydrographique Internationale*

Southern African and Islands Hydrographic Commission



# Executive Summary



- South African Navy Hydrographic Office (SANHO).
  - The SA Hydrographic Service is a government-funded service and is part of the SA Navy. The major assets for the Hydrographic Service are as follows:
    - Hydrographic Survey Vessel: One Hecla Class Hydrographic Survey Vessel, named SAS PROTEA, 3 x survey motor boats
    - Hydrographic Office
    - Personnel with the following principal functions:
      - Cartographic Personnel.
      - Survey Personnel.



# Hydrographic Surveys

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## New Surveys.

- Special Hydrographic Instruction: SHI-02/2018 – Revision of San Ho-23 South African Sailing Directions Volume III – Cape Agulhas to Cape St Francis
- Special Hydrographic Instruction: SHI-03/2018 – Survey of Submarine Bottoming Areas – Simon's Bay
- Special Hydrographic Instruction: SHI-04/2018 – Small Craft Harbour Survey
- Special Hydrographic Instruction: SHI-05/2018 – Sub-Surface Sea Floor Contact Investigation – False Bay
- Special Hydrographic Instruction: SHI-01/2019 – Salisbury Island Survey – Durban

# Hydrographic Surveys (Contd.)



## Crowd-sourced bathymetry (CSB).

- Approval has been granted to the SANHO to vote in favour of CSB activities within South African national waters of jurisdiction, excluding the Territorial Waters, but extending from the Contiguous Zone to the EEZ only.
- Approval will increase bathymetric data in South Africa's national charting area of responsibility, as well as contribute to the population of GEBCO Project charts under the Republic's responsibility.
- Neither the safety of navigation nor national security is affected by CSB activities from the Contiguous Zone to the EEZ as described above.

# New charts & Updates



## Electronic Navigational Charts (ENCs).

- Current (ENC) production and maintenance - Hydroservice dKart software.
- ENC validation tools - Seven C's Analyser and eGlobe (ECDIS).
- The SANHO is currently changing over to CARIS Teledyne production software as part of the Hydrographic Capability Replacement Project, and will continue to utilise existing validation tools.
- South Africa has the following paper chart - ENC relationship:

### Chart Series

SAN Harbour charts

SAN Approaches charts

SAN 100 000 and 150 000 Series charts

SAN 300 000, 600 000 Series

SAN 1 000 000 Series and all other small scales

### ENC Usage Band

Harbour

Approaches

Coastal

General

Overview.

# New charts & Updates (Contd.)



Scope of ENC work done:

Usage Band	Total Produced	% Coverage Available
Overview	5	100
General	9	100
Coastal	19	100
Approaches	13	100
Harbour	11	100
Berthing	0	0
Total	57	100%

There are no new ENC products planned for the immediate future, but new editions of the Overview, General and Coastal usage bands are in production based on the new 1:1 000 000 paper charts. ENC products for berthing are being considered. High density ENC are also being considered.

# New charts & Updates (Contd.)

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## International (INT) Charts.

- South Africa is the coordinator for charting Region H and the designated producer for 45 paper charts in this scheme, of which 43 (96%) charts have been produced and published.
- The 1:1 000 000 INT series will replace the existing 1:600 000 national paper chart series on completion of INT 7052 (SAN 95).
- Due to significant developments taking place at Walvis Bay harbour, INT 2612 (SAN 1004) and INT 2613 (SAN 1005) are in the production stage of a new chart/new edition.

# Publications



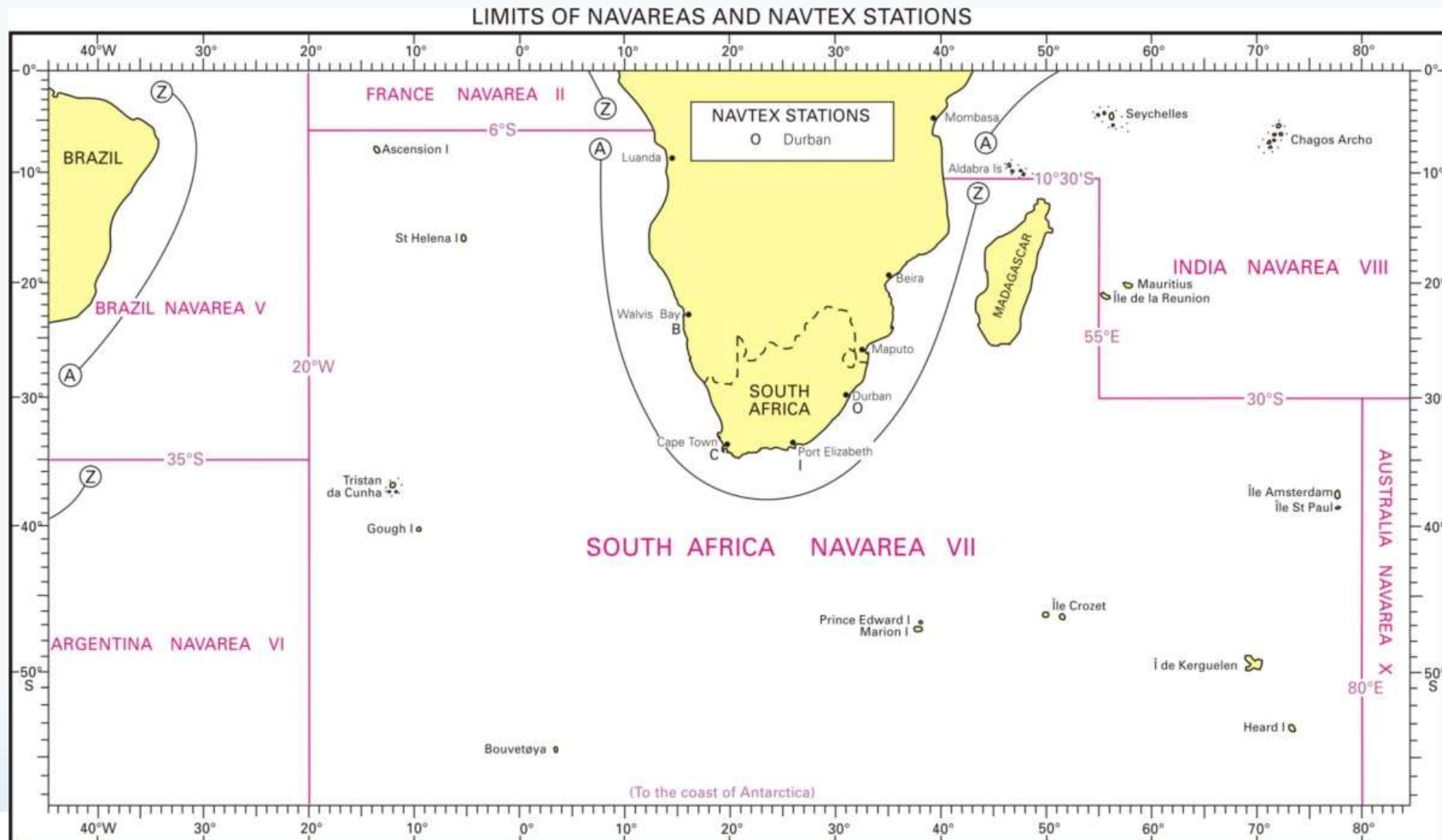
## National paper charts.

- The present status of the most essential SANHO Publications is as given in the table below:

<b>SANHO Ref No</b>	<b>Title</b>	<b>Edition</b>
SAN HO-1	South African List of Lights and Radio Signals	2011
SAN HO-2	South African Tide Tables	2019 & 2020
SAN HO-3	Catalogue and Indexes of SAN Charts, and Hydrographic Publications	2011
SAN HO-6 (INT 1)	Symbols and Abbreviations used on SA Charts	2017
SAN HO-15	International Regulations for Preventing Collisions at Sea 1972 (COLREGS)	2005
SAN HO-21	SA Sailing Directions Vol I – General Information	2005
SAN HO-22	SA Sailing Directions Vol II – Namibia and West Coast	2014
SAN HO-23	SA Sailing Directions Vol III – South and East Coasts	2014
-	Annual Summary of SA Notices to Mariners	2019
-	Cumulative List of SA Notices to Mariners	2019



# Maritime Safety Information (MSI)



# C-55

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- The SANHO acknowledges the importance of the constant review of C-55 to improve hydrographic services along the maritime routes in the region.
- The table with the latest information to update IHO Publication C-55 (Status of Hydrographic Surveying and Charting Worldwide) is provided in Annex B to the National Report.

# Capacity Building

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Status of national, bilateral, multilateral or regional development projects with a hydrographic component.

- In accordance with the IHO and SAIHC capacity building initiatives, South Africa continues to provide or facilitate training and courses to develop expertise in the SAIHC region. Member states are invited to make use of the learning opportunities offered by the SANHO.
- The SANHO is also embarking on developing an eLearning programme which will enable interested parties to raise awareness on matters relating to MSI and basic survey techniques, via an online learning facility.

# Other Activities



## Participation in IHO Working Groups.

- South Africa attends the TWCWG meetings. South Africa, in collaboration with the IHO, has developed the Tidal Training Manual which is currently available in English, French and Spanish languages.

## Marine Spatial Data Infrastructure (MSDI) Progress.

- Policy and Governance.
  - SANHO is fully committed to ensure the successful implementation of Operation Phakisa (Blue Economy) Initiative 6, Marine Spatial Planning (MSP) and Initiative 10 Oceans and Coastal Information Management System (OCIMS) Projects
  - The SANHO is attending meetings of the National Working Group (NWG), as well as the South African Spatial Data Infrastructure (SASDI) workshops and meetings to ensure compliance, adherence to policies, standards and specifications for the base data sets.

# Conclusions

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## Areas of Significant Achievement.

- The SANHO is building capacity through the successful transition from dKart production software to CARIS Teledyne production software. This transition will also facilitate the transition from product centricity to data centricity.
- The proposed Hydrographic Bill was adopted by parliament, and currently ascending to the State President

Action requested. SAIHC16 invited to note the National Report (P-5 and C-55 as submitted in Annexes A and B to the report.)



Thank you

