## **19<sup>th</sup> MEETING**

# SOUTHERN AFRICAN AND ISLANDS HYDROGRAPHIC COMMISSION (SAIHC - 19)

## MAURITIUS

# <u>NATIONAL REPORT</u> REPUBLIC OF MAURITIUS



29-31 AUGUST 2023

#### 1. Executive Summary

#### 1.1. Name of the Institution - Mauritius Hydrographic Service (MHS)

#### 1.2. Introduction

MHS is a Governmental institution operating under the aegis of the Ministry of Housing and Land Use Planning (MHLUP) and is the nodal agency for hydrographic surveying and nautical charting for the Republic of Mauritius which includes the Islands of Mauritius, Rodrigues, Agalega, Tromelin, Cargados Carajos and the Chagos Archipelago, including Diego Garcia and any other island comprised in the State of Mauritius.

#### 1.3. Cooperation between Mauritius and India

Under the existing Memorandum of Understanding (MoU) between the Republic of Mauritius and the Republic of India in the field of hydrography, Mauritius has obtained assistance from India *inter alia* for the conduct of deep-sea surveys, production of navigational charts, training of staff and provision of expertise for the setting up of hydrographic infrastructure in Mauritius.

#### 1.4. Staff of MHS

MHS is currently headed by a Commander (Hydrographer) supported by two Petty Officer Survey Recorders deputed by the Government of India. One Principal Surveyor, one Senior Surveyor and one Surveyor from MHLUP also form part of MHS team. All the surveyors from the Ministry are IHO/FIG CAT "A" qualified and have completed their hydrographic course under various IHO capacity building programmes.

#### 1.5. **Submitted by:**

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#### 2. Surveys

2.1 MHS organised its national stakeholders meeting on 28 March 2023 to review the hydrographic survey requirements of Ministries and parastatal bodies. The meeting was attended by 12 stakeholders and a total of 78 hydrographic survey requirements were projected for the block year 2023-24.

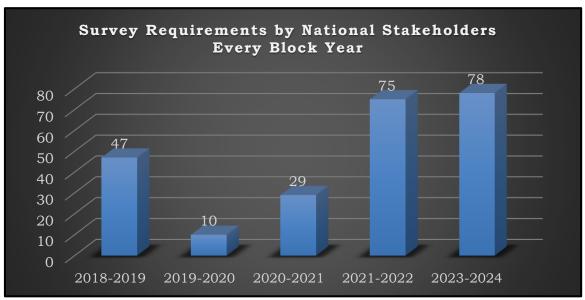


Figure 1: Survey Requirements by Stakeholders since 2018

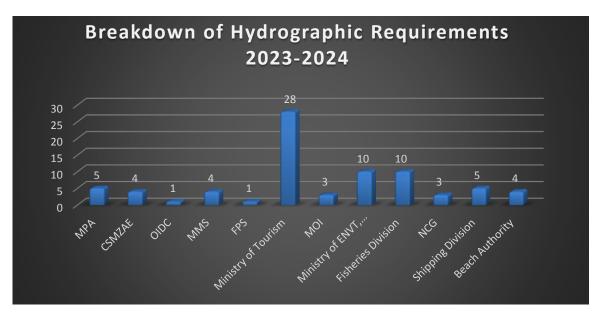


Figure 2: Breakdown of Hydrographic Survey Requirements 2023-2024

2.2 These surveys have been segregated as deep sea and shallow water surveys for an effective execution plan. The deep sea surveys are executed by hydrographic vessels deputed by the Government of India on an annual basis. The areas closer to the coast are surveyed using Inshore Survey Vessel 'Pathfinder' fitted with Multibeam Echosounder (SeaBat T 20-P) and the lagoon areas are surveyed using Crafts of Opportunity (CoO) received from various stakeholders requesting for surveys.



Figure 3: Execution Plan of Survey Tasks

2.3 <u>Coverage of New Surveys</u>. MHS endeavours to meet the survey requirements as projected by the stakeholders in a phased manner. Towards this end, MHS undertook the following surveys since the last report:-

#### (a) Hydrographic Survey around Mauritius.

At the request of various stakeholders, hydrographic surveys were carried out for several areas around Mauritius. The hydrographic survey data would be used by the Beach Authority for demarcation of swimming zones/ dangerous current zones/ installation of beach information panels/ demarcation of marine protected areas etc. The following locations have been surveyed since the last report:

- (i) Bras d'Eau Public Beach
- (ii) Le Morne Fish Landing Station
- (iii) Ship's Wreck, Pointe Aux Cannoniers
- (iv) Ile Aux Aigrettes
- (v) Pointe Jerome Embarkation Point



Figure 4: Survey Operations

(b) Hydrographic Survey of Navigational Passes (Phase VIII) (June 22 – June 23). The surveys of navigational passes are undertaken to demarcate the safe passage for mariners to enter and exit the lagoons to access the deep sea. These surveys are carried out at the request of the Ministry of Blue Economy, Marine Resources, Fisheries and Shipping and the Ministry of Tourism. In this context, MHS executed the following surveys between June 2022 to June 2023:

- (i) Passe Dupuit
- (ii) Passe Trou d'Eau Douce
- (iii) Passe Chaland



Figure 5: Survey of Passes

Ship (c) Survey Undertaken by Indian Naval Darshak (31 October 2022 to 15 December 2022) Under the provisions of the MoU in the field of Hydrography between the Government of Mauritius and the Government of India, Indian Naval Survey Ship 'Darshak' was deployed to undertake Foreign Cooperation Survey in the Mauritian waters from 31 October to 15 December 2022. During the deployment, six major hydrographic surveys around Mauritius, Agalega and St. Brandon were undertaken to meet the national stakeholders' requirements and for updating charts of the area.



Figure 6: INS Darshak entering Port Louis Harbour

2.4 **The basic infrastructure** available for undertaking Hydrographic surveys at Mauritius Hydrographic Service is listed below: -

## <u>Equipment</u>

(a) Inshore Survey Vessel "Pathfinder"

(b) Seabat T-20P Multibeam Echosounder System interfaced to SBG Ekinox II Inertial Navigational System

(c) Atlas Deso-30 Echo sounder with 210 KHz and 33 KHz Transducers

- (d) Teledyne Hydrotrac Portable Single Beam Echo Sounder
- (e) Hemisphere R-131 Satellite DGPS
- (f) TSS Dynamic Motion Sensor 25.
- (g) CTD 48M Sound Velocity Profiler
- (h) Infinity-EM Current Meter
- (i) Aquadopp Current Meter
- (j) Valeport TideMaster Automatic Tide Gauge

- (k) Valeport SWiFT SVP
- (l) Automatic Tide Gauge
- (m) Aquadopp Current Meter

#### <u>Software</u>

- (a) HYPACK 2019
- (b) CARIS Processing Suite for Single and Multi-beam Sounding
- (c) CARIS BDB
- (d) CARIS Paper Chart Composer
- (e) Global Mapper *ver 24.1*

#### 2.5 **New Ships**. Nil

#### 2.6 **Challenges**.

(a) Limited technical support for maintenance of survey equipment from Local Representative of OEM.

(b) Limited support towards upkeep and maintenance of Inshore Survey Vessel and its associated machineries.

2.7 **Achievements**. Data from the hydrographic survey of navigable passes is being used by the Ministry of Blue Economy, Marine Resources, Fisheries and Shipping for the placement of buoys to demarcate navigable channels around the Island of Mauritius for the safety of the marine community in a phased manner.

#### 3. New Charts & Updates

3.1 **ENCs and Paper Charts**. A total of 14 Electronic Navigation Charts and 12 Navigational Paper Charts are being produced in collaboration with National Hydrographic Office (NHO), Dehradun, India for Mauritian waters. NHO is the Principal Charting Authority for Mauritius and any ambiguity regarding ENC/ paper chart is addressed by this organisation. Since the last country report submitted for SAIHC-18 meeting, one new ENC and one Paper Chart have been released. The details of the new ENC and Paper Chart are enumerated below: -

ENC Number	-	IN62508A
Chart Number	-	2508
Chart Title	-	Agalega Jetty
Publication	-	March 2023
Scale	-	1: 5000

3.2 **ENC Distribution Model**. ENCs covering Mauritian waters are distributed worldwide through UKHO, M/s Jeppesen Marine, M/s Primar Norwegian Hydrographic Service and M/s IIC Technologies Limited.

3.3 **<u>Charts.</u>** As at date, 12 navigational charts covering Mauritian waters have been published and details thereof are tabulated below: -

<u>S1 No.</u>	<u>Chart No.</u>	Name
(a)	2514 (INT 7739)	Port Louis and Approaches to Port Louis.
(b)	2503 (INT 77391)	Approaches to Cargados Carajos Shoals
(c)	2504 (INT 77392)	Mathurin Harbour
(d)	2505 (INT 77393)	Approaches to Mathurin Harbour
(e)	2506 (INT 77394)	Grand Bay and Grand Riviere Noire Bay
(f)	2507 (INT 77395)	Grand Port
(g)	2512 (INT 77396)	Agalega Island
(h)	2529	Northern Islets of Mauritius
(i)	2527 (INT 77397)	Mauritius
(j)	2530	Approaches to Grand Port
(k)	2531	Rodrigues Island
(1)	2508	Agalega Jetty

Table 1: Navigational Charts of Mauritian Waters

3.4 The navigational charts as listed below are available from the following agencies:

(a) Cartographic Section, Ministry of Housing and Land Use Planning, Mauritius

- (b) National Hydrographic Office, Dehradun, India
- (c) Naval Chart Depots at Mumbai and Vishakhapatnam, India
- (d) M/s IIC Technologies Limited
- (e) M/s Jeppesen India Private Limited
- (f) M/s Lift o Marine
- (g) M/s C & C Marine Combine
- (h) M/s EW Liner Charts & Publication

#### 3.5 **Challenges and Achievements**. Nil

#### 4. New Publications & Updates

4.1 **<u>Catalogue</u>**. The catalogue of Paper Charts and Electronic Navigational Charts, Mauritius has been updated as of May 2023. The catalogue is available on the website of the Ministry of Housing and Land Use Planning.

4.2 <u>**Compendium of the Survey of Navigable Passes.**</u> MHS has published the "Compendium of the Survey of Navigable Passes", collating the availability of survey data of Navigable Passes surveyed by MHS since its inception. This compilation of the data bridges the gap between stakeholder projects and data availability. The information in the document is viewed as a vital contributor to the Mauritius Government Marine Spatial Data Infrastructure website "Ocean Observatory E-platform". The compendium is also available on the website of the Ministry of Housing and Land Use Planning.

#### 4.3 **Challenges and Achievements**. Nil

#### 5. MSI (Maritime Safety Information)

#### 5.1 **Existing Infrastructure for Transmission**.

Dissemination of Maritime Safety Information is carried out by the Mauritius Radio Services (MRS), a GMDSS coast station operated by Mauritius Telecom, on behalf of and under an agreement with the Shipping Division of the Ministry of Blue Economy, Marine Resources, Fisheries and Shipping. GMDSS covers sea areas A1, A2 and A3 within our SRR only. MRS operates 24/7 and is based at Cassis, Port-Louis. Mauritius is located in NAVAREA VIII which is coordinated by India.

#### 5.2 **Dissemination of MSI**.

(a) **Navtex.** All MSI are transmitted on the International Navtex by default. The frequency is 518 KHz. There is no National Navtex (490 KHz) service in Mauritius. The Station Identification of the Navtex in Mauritius is 'C'. Messages are transmitted on a 10-minute slot every 4 hours starting at 0020, 0420, 0820, 1220, 1620 and 2020 hours GMT. The normal range of Navtex broadcast is 400 nautical miles.

(b) **<u>VHF</u>**. Based on the area of concern, some MSI messages are broadcast on VHF Radio Telephony on Channel 24, after an announcement is made on Channel 16. MRS has a VHF network that completely covers the Sea Area A1 of Mauritius. 6 VHF stations are remotely operated around the island from the control centre in Cassis. The maximum range is 30 nautical miles.

(c) **<u>HF</u>**. MSI may also be broadcasted on HF Radio Telephony (8800 khz). This is specifically done if the area of concern is around

the Mauritius fishing banks. Fishing vessels operating on Mauritius fishing banks are equipped with HF Radio Telephone equipment for communication with MRS. Weather information are sent daily to these fishing vessels on HF.

(d) **Inmarsat-C**. If the area of concern is relatively far from Mauritius, especially beyond the normal range of Navtex, some MSI may be broadcast on the E-broadcast system. This system is operated by AMSA (Australian Maritime Safety Authority) and MRS have access to this platform through an agreement made by the Shipping Division. It is an online tool through which messages may be broadcast to ships within Mauritius SRR. The E-broadcast is normally intended for Distress and Urgent situations and therefore not all MSI messages are broadcast on this system.

## 5.3 **Challenges and Achievements**. Nil

## 6. <u>C-55</u>

The updated C-55 table is at Annexure 'A' to this Report.

## 7. Capacity Building

## 7.1 Training Received, Needed and Offered

(a) **<u>Training Received</u>**. No training was received during the period covered by this report. However, the following officers have been selected for training programmes/ workshops in hydrography under the capacity building initiative of IHO.

l	<u>S1</u>	Name	Designation	Course/ Workshop	<u>Duration</u>
	(i)	Mr Hunish	Surveyor	Category "A" Master of	06 August
	(1)	MATTAROOA	Surveyor	Science in Hydrography	2023 -

SAIHC19-7.4

			at the University of	02 August
			Southern Mississippi,	2024
			USA	
			IHO-IOC-Nippon	29 July
(;;)	Mr S	Sumoron	Foundation GEBCO	2023-
(ii)	SEEBORUTH	Surveyor	Alumni Conference at	06 August
			Tokyo, Japan	2023
(iii)	Mr Devendra	Principal	Alumni Workshop of	12-14
(111)	MADHOW	Surveyor	IHO-ROK Cat "A"	September
(117)	Mr Hembul	Senior	Programme at Busan,	2023
(iv)	TECKMUN	Surveyor	Republic of Korea	2023

Table 2: Capacity Building

(b) <u>**Training Needed**</u>. Additional training requirements are envisaged in following areas: -

(i) Nautical Cartography (Paper Chart and ENC chart production)

(ii) Electronic Survey Equipment Orientation Course(ESEOC) conducted at National Institute of Hydrography, Goa,India.

(iii) CAT 'A' and CAT 'B' courses through IHO capacity building programme.

(iv) S-100 and MSDI workshops/ courses.

## 8. Oceanographic Activities

The Mauritius Oceanography Institute (MOI) advises Government on the formulation and implementation of policies and programs in respect to oceanography and marine resources. MHS also works in close collaboration with MOI for providing assistance in the collection of certain oceanographic datasets like Sound Velocity Profiles, ocean current parameters, nature of seabed etc.

Mauritius Meteorological Service is responsible for the maintenance of tide gauges and production of tide tables in Mauritius. The following tide stations are in use:

Location	Tide Gauge	Installation	Sensors used to Measure Sea Level
Port Louis		March 2008	(i) Pressure sensor
(Trou Fanfaron)	Sutron Satlink		(ii) Encoder (in stilling well)
Port Mathurin		March 2008	(iii) Two tide switches (used
Port Area	Logger/ Transmitter		as reference for calibration of
(Rodrigues)	Transmitter		other sensors)
Blue Bay		November 2008	(iv) Radar sensor

Table 3: Tide Stations in Mauritius (Source: Mauritius Meteorological Services)

#### 9. Spatial Data Infrastructure

#### 9.1 Existing Infrastructure for MSI Dissemination

The for Continental Shelf, Maritime Zones Department Administration and Exploration (CSMZAE), with the expertise of the Commonwealth Scientific and Industrial Research Organisation (CSIRO) Oceans & Atmosphere, Australia, has developed the Mauritius Ocean Observatory E-platform (E-platform) under the Indian Ocean Rim Association (IORA) project "Developing an Enhanced Ocean Observatory in support of Ocean Exploration and Development". The main objective of the E-platform is to centralise data pertaining to the maritime zones of the Republic of Mauritius in order to facilitate data discovery and data sharing between researchers, partners and users involved in management, policy and planning.



Figure 7: Mauritius Ocean Observatory E-platform

#### 9.2 Achievements

The Meta data of the hydrographic surveys have been successfully incorporated into the Ocean Observatory E-platform of the Government of Mauritius and is available to the stakeholders.

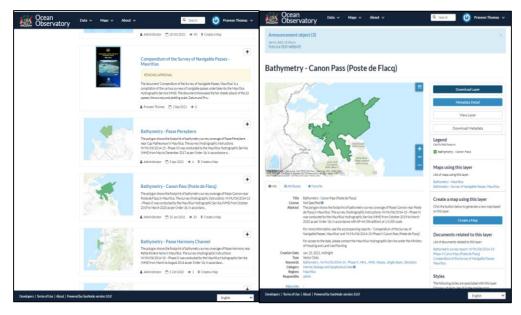


Figure 8: Hydrographic Data on the Ocean Observatory E-platform

#### 10. Other Activities

10.1 The 13<sup>th</sup> Meeting of Indo-Mauritius Joint Committee on Hydrography was held in Mauritius from 12-14 July 2023. Issues related to charting scheme, future survey requirements, training, and capacity building were discussed during the meeting.

10.2 The World Hydrography Day under the theme "*Hydrography* - *Underpinning the Digital Twin of the Ocean*" was celebrated on 21 June 2023. An outreach programme for university students was conducted to raise awareness about hydrography.

## <u>Annexure 'A'</u> (<u>Refers to Para 6</u>)

## Input to the IHO Publication C-55 (Status of Hydrographic Surveying and Charting Worldwide) Country: Mauritius

	C-55 Summary	7 for:		Comments on
Country:	Mauritius			<u>Charts</u> :
Country ISO				Chart coverage
Code:	MU			updated based
Country Sub				on new
Code:	-			charting
INT Region:	Н			scheme and
Country/Depend:	-			requirement of
Last updated:	August 2023			stakeholders
				especially for
				areas of Saya
				de Malha and
Provided by:	Mauritius			Nazareth
				banks
		Coastal	Ports and	
Chart coverage	Passage (%)	(%)	Approaches	
		(70)	(%)	
INT	100	80	90	Comments on
				Surveys:
RNC	-	-	-	Adequate:
ENC	100	80	90	Surveys
Status of Paper Cha	arts			between 2005-
Paper charts with de	epths in meters ( <sup>6</sup>	%)	100	2023
Paper charts referen	ced to a satellite	datum (%)	100	

SAIHC19-7.4

Status of summary		Resurvey	No survey	<b>Resurvey</b> :
Status of surveys	Adequate (%)	(%)	(%)	1980-2005 (as
0-200 m	35	35	30	per
				requirement)
				Never
				Systematically
				Surveyed:
				Surveys prior to
> 200m	08	45	47	1980

MSI	Y/N	Comments on MSI:
Local warning	Y	
Coastal warning	Y	
Nav warning	Y	
Port warning	Y	
GMDSS	Y/N	Comments on GMDSS:
Master Plan	Y	
Area A1	Y	
Area A2	Y	
Area A3	Y	
NAVTEX	Y	
	(International	
	Frequency)	
Safety Net	N	

## Input to the IHO Publication P-5 (Yearbook)

Country	: Mauritius
Unit	: Mauritius Hydrographic Service
Parent Organization	: Ministry of Housing and Land Use
Planning	
Head of Parent Organisation	: Mr. M. S. Ferhat Joomun, Senior Chief
	Executive

	Contact information
Head of	Post: Officer-in-Charge
the	Name: Cdr Ankush Sachdeva
Hydrograp	Postal address:
hic Office	Ministry of Housing and Land Use Planning
	Ebene Tower, Level 5
	Republic of Mauritius
	Tel: + 230 4013802
	Fax: + 230 4681773
	Email: <u>oic_hydrounit@govmu.org</u>
Other	Mr D. Madhow,
point(s) of	Principal Surveyor
contact	+ 230 4016808
	dmadhow@govmu.org
	Mr H. Teckmun
	Senior Surveyor
	+ 230 4013801
	hydrounit@govmu.org
Web site	https://housing.govmu.org/Pages/Dept%20and%20Org/Divisio
	ns/Survey/Mauritius-Hydrographic-Service.aspx

## SAIHC19-7.4

	Country information
Declared	Tonnage: 130600 T
National	Date: December 2022
Tonnage	
-National	Independence Day 12 March
day	Republic Day 12 March
Date of	Hydrographic surveys and nautical charting are under the ambit
establish	of the Ministry of Housing and Land Use Planning. The legislative
ment and	framework for hydrographic services will be formulated in due
Relevant	course.
National	
Legislatio	
n	
Date first	August 2005
joined	
ІНО	
Date	August 2005
ratificatio	
n	
Conventio	
n	
Remarks	Nil
on	
membersh	
ip	
	Agency information/ Information sur l'agence
Top level	Ministry of Housing and Land Use Planning
parent	

onPrincipal functions1. Hydrographic surveys for compiling and updating nautical charts and products.ofthe 2. Project surveys in support of development activities, scientific research, coastal zone management, environmental protection, fisheries management and maritime security.departme nt3. Compilation of Navigational warnings for promulgation through NAVAREA coordinator.4. Procurement & Maintenance of hydrographic, oceanographic and marine cartographic equipment for the department.5. Interact with International Hydrographic Organisation (IHO) and the Southern African & Islands Hydrographic Commission (SAIHC) on matters related to hydrography.6. Provide training to surveyors, officers from Ministry of Housing and Land Use Planning & other stakeholders in the field of hydrography
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Housing and Land Use Planning & other stakeholders in the field of hydrography
of hydrography
7. Cooperate with other stakeholders and provide expertise on
matters related to maritime domain.
Annual         Approximately 50,000 USD (excluding salaries)
operating
budget
Total 5
number of
staff
employed
Number of 8
INT charts
published

Total	12			
number of				
paper				
charts				
published				
Number of	14			
ENC cells				
published				
Number of	Nil			
Other				
charts				
Type of	1. Catalogue of Charts			
	1. Catalogue of charts			
publicatio	2. Compendium of Survey of Navigable Passes			
ns	2. Comp	bendium of Survey of I	Navigable Passes	
produced				
Detail of	Name	Displacement	Date	Number of
surveying			Launched	crew
vessels/				
aircraft	ISV	6.5 T	2012	05
	Pathfinder	0.5 1	2012	00
Other	Following the signature of a Memorandum of Understanding in the			
informati	field of Hydrographic Cooperation with India, a full-fledged			
on of	Hydrographic Unit was established at the Ministry of Housing and			
interest	Land Use Planning in 2013. The unit has been rechristened as			
	Mauritius Hydrographic Service since 2018.			
	1			