20th Meeting of the North Indian Ocean Hydrographic Commission

National Report by

France (Shom) – Associate Member

Main achievements during the year

- March / April 2021 : Surveys in Djibouti Waters (*Djibouti, Obock, Ghoubbet Cove, Gulf od Tadjoura and Banka Arab*)

Survey of Djibouti harbor

Survey of Obock harbor

Main achievements during the year

- March / April 2021 : Surveys in Djibouti Waters (*Djibouti, Obock, Ghoubbet Cove, Gulf od Tadjoura and Banka Arab*)

Survey of Damerjog harbor

Survey of Ghoubbet Cove, Gulf of Tadjoura and Banka Arab

Progress on charting – ENC

- Current status of French ENC production in Region J:

Usage Band	Produced Cells	Total planned Cells	Percentage
1	0	0	N/A
2	1	1	100%
3	2	2	100%
4	1	2	50%
5	3	7	57%
6	1		
Total	8	12	67%

6 ENC cells to be produced (2023 or later) in the region of Djibouti :
Western part of Gulf of Tadjoura, Entrance of Ghoubbet Cove, Ghoubbet Harbor, Bay of Doraleh and Khôr Ambâdo, Damerjog terminal and Tadjoura Harbor

Progress on charting – ENC

- Shom ENC coverage within the NIOHC Region :

Extract from the online PRIMAR catalogue (https://www.primar.org)

Progress on charting – INT Charts

- All INT charts under responsibility of Shom have been produced within the NIOHC Region:

Scale	Produced INT charts	Planned INT charts	%
Small (<1/1 000 000)	0	0	N/A
Medium	3	3	100
Large (>1/100 000)	2	2	100
Total	5	5	100

One INT chart produced since the last conference :

INT	Scale 1:	Title	Comment
7118	200 000	De Al Hudaydah à Al Mukha	FR7518 – New Edition

A new edition of INT7115 (FR7547) – Abords de Djibouti currently in progress

Progress on charting – National Charts

- No national chart has been produced since the last conference, and none is planned for 2021-2022.

- 2 new charts are currently designed to cover the western part of the Gulf of Tadjoura at scale 1: 50 000 and should be produced from 2023:
    - FR7848 – Ouest du golfe de Tadjoura
    - FR7849 – Ports du golfe de Tadjoura

- These future charts may be submitted later as new INT charts to the NIOHC ICCWG.

C-55 latest update – Surveying and charting statutes

- Regarding Region J : FR PCA for Djibouti

A : adequately surveyed – B : re-survey required – C : never systematically surveyed

Survey Status Updated December 2020		Depth < 200m			Depth > 200m		
		A	B	C	A	B	C
J	Djibouti	21.74 %	57.73 %	20.53 %	90.87 %	0.6 %	08.53 %

Charting Status Updated June 2021		Small (<1 M)			Medium (1M < / < 100 000)			Large (> 100 000)			Metric	WGS84
		A	B	C	A	B	C	A	B	C		
J	Djibouti	100	0	NA	100	0	100	81	0	50	100	100

C-55 values for survey status (top table) and charting status (down table). Updated values are highlighted in red.

A : covered by INT or other paper charts – B : covered by RNC – C : covered by ENC

Capacity Building

FIG-OHI-ACI courses:

- category B for hydrographic surveyors (Shom / Brest)
- category B for nautical cartographers (Shom / Brest)
- category A course for hydrographic surveyors (ENSTA Bretagne / Brest)

Since NIOHC19 :

- one petty officer from Indonesia (PUSHIDROSAL) completed the Shom Cat. B course in hydrography in Brest (Sept. 2018 to July 2019)
- and another one completed the Cat. B course in nautical cartography in Brest (Sept. 2018 to May 2019)

Progress on MSDI

- Shom develops and maintains a MSDI covering all maritime areas under FR responsibility through 3 portals :
  - data.shom.fr
  - diffusion.shom.fr
  - maritimelimits.gouv.fr

2021 : new design for data.shom.fr

Status of bilateral, multilateral or regional development projects

- France fosters a mechanism of gradual transfer of responsibilities through State-to-State administrative arrangements.

- Within the NIOHC area, a bilateral arrangement of this kind is concluded between France and the Republic of Djibouti.

- An arrangement for the exchange and reproduction of nautical products, in accordance with IHO Resolution 7/1919 as amended (former A3.4) has been concluded with the National Hydrographic Office of India (INHO). The last revision was signed in June 2021.

Innovation / New equipment

- Innovation partnership (launched in March 2018) to increase Shom's experience in SDB and update its production process. Research step completed, strategy defined. 2021 : start of the development step
- Project CHOF to conduct experiments to modernise hydrographic capacities:

- Sept. 2020 > 2 USV DriX from iXblue, Jan. 2021 > 1 AUV Gavia from Teledyne, May-June 2021 > 1 AUV A18D and 1 USV Inspector

- Deep-sea and shallow water AUV, USV and gliders to be experimented in the coming months

USV DriX of IxBlue during the tests

Plans that affect the region

- Survey campaigns are planned by Shom on a regular basis in Djibouti and within the Bab-el-Mandeb Strait to improve the navigational safety. Their achievement level depends on the authorizations received from the concerned Coastal States.

- Next campaign in the Indian Ocean planned in 2023.