Romanian Maritime Hydrographic Directorate



ROMANIA National Report

MEDITERRANEAN AND BLACK SEAS HYDROGRAPHIC COMMISSION 21st CONFERENCE

Cadiz, SPAIN 11 - 13 June 2019

Content

- 1. SURVEYS
- 2. CHARTS
- 3. NAUTICAL PUBLICATIONS
- 4. MARITIME SAFETY INFORMATION (MSI)
- 5. CAPACITY BUILDING
- 6. OCEANOGRAPHIC ACTIVITIES
- 7. OTHER ACTIVITIES

1. Surveys

In 2018 we have performed the following surveys:

 \checkmark Hydrographic surveys, in order to update the national database in the following areas:

- Eforie North;
- Constanta North;
- Vadu;
- St. Gheorghe;
- Sulina.
- ✓ Topographic survey of the entire Romanian coastline (yearly activity).

 ✓ Hydrographic and oceanographic surveys for military harbors from Danube River and Black Sea;

✓ UXO surveys in the Black sea and on the Danube River;

Hydrographic surveys were executed in the coastal area up to the 20 m bathymetric and at this time we have completed up to 40% of the Romanian coast.

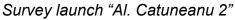
MEDITERRANEAN AND BLACK SEAS HYDROGRAPHIC COMMISSION 21st CONFERENCE

1. Surveys



Hydrographic Ship "Al. Catuneanu"







Survey launch "Hidrografica 3"

We also started the procedures in order to change:

- the survey equipment for the Romanian Hydrographic ship we will update it with a deep sea multibeam system;
- update the tide gauge system with 3 new systems;
- the RTK network with 3 new portable RTK base stationes.

New ship:

This year we will finalize the procedures in order to acquire 2 new survey platforms that will be fitted with hydrographic and oceanographic equipment (single beam, multibeam, ADCP, SVP probe, CTD).

ENCs:

- ✓ MHD has in portfolio 14 ENC cells
- ✓ MHD distributes its ENCs through IC-ENC

Usage band	Navigation purpose	No of cells released	No of cells planned for production(this year)
1	Overview	N/A	N/A
2	General	1	N/A
3	Coastal	To be produced	2
4	Approach	6	N/A
5	Harbor	3	2
6	Berthing	4	N/A
	Total	14	4

□ MHD intends to produce and send for distribution this year, 4 new ENC cells band 3 and 5.

INT Charts:

 \checkmark MHD has in its portfolio 6 INT numbers witch cover the entire Romanian coast of the Black Sea and the Romanian ports

INT No.	SCALE	MAIN TITLE	STATUS
3820	1:300000	From Kaliakra to Danube Delta	Produced / Printed
3902	1:10000	Port of Mangalia	Produced / Not printed
3904	1:10000	Port of Midia	In progress
3905	1:30000	Port of Constantza and approaches	Produced / Printed
3907	1:50000	From Gura Sf.Gheorghe to Gura Musura	Produced / Not printed
3908	1:30000	Port of Sulina and approaches	Produced / Not printed

National Paper Charts :

✓ The MHD national portfolio of paper charts consists of 35 charts

SCALE	NO. OF CHARTS	SCALE	NO CHA
MEDIUM-SCALE	15	LARGE-SCALE	2
Landfall Charts	4	Port Approach Charts	
1:750000	2	1:50000	(
1:500000	2		
		Harbour Charts	
Coastal Navigation Charts	11	1:30000	
1:300000	1	1:25000	
1:250000	1	1:10000	4
1:150000	2		
1:100000	4	BerthingCharts	
1:75000	3	1:5000	8

An intensive work is carried on by the cartographic staff of MHD to transform the chart folio from CARIS GIS format into the CARIS Paper Chart Composer format. Several charts have been transformed and are ready to be printed as new editions and some are in final stage of preparation.

Chart production:

MHD intends to introduce the Print on Demand (PoD) system





3. Nautical publications

MHD nautical publications portfolio includes the following documents:

- ✓ Black Sea Pilot
- ✓ List of Lights and Fog Signals
- Charts and Nautical Publications Catalogue
- ✓ Maritime Buoyage System
- ✓ Symbols and Abbreviations used on Romanian Paper Charts (according to INT1)
- ✓ Nautical Tables
- ✓ Special Edition of Notices to Mariners
- Cumulative List of Notice to Mariners

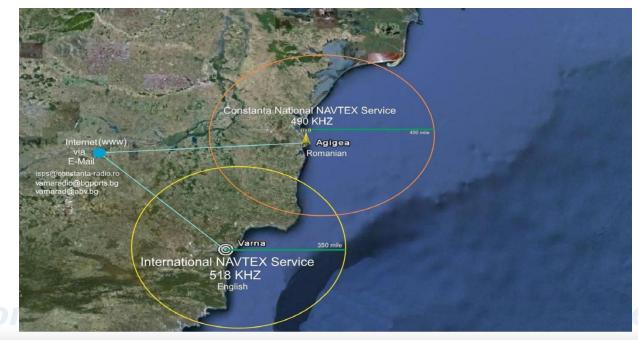
All publication are available only in hard copy format.

4. Maritime safety information

Maritime Hydrographic Directorate is the national authority which **promulgates** navigational warnings and Constanta Radio is the National NAVTEX service provider.

NAVTEX

MSI Services are provided on 7/24 basis. Constanta Radio NAVTEX station is transmitting MSI warnings in Romanian language on 490 kHz and English on 518 KHz through Varna Radio KHz. Other communication systems (VHF, MF and HF) are also available to promulgate MSI warnings if needed.



4. Maritime safety information

Number of Coastal and NAVAREA Warnings disseminated last year by MHD are listed below:

Year	NAVTEX Warnings	NAVAREA-III Warnings
2018	95	95

MSI Equipment

MHD owns a NAVTEX receiver (NAV6/NAVTEX) since 2018, trough which it can verify the promulgation of all the MSI messages, from area of responsibility.



NAVTEX receiver

5. Capacity building

Since the last meeting of MBSHC, several MHD employees received training through IHO Capacity building program.

Domain / International Training	Period	Organizer	Country	No. of employee
<u>CARTOGRAPHY</u>				
<i>Workshop on ENC Production and Distribution</i>	Oct 2017	IHO	Turkey	1
Maritime Boundary Delimitation Workshop	Nov-Dec 2017	IHO	Turkey	1
HYDROGRAPHY				
Shallow water survey	Oct 2018	IHO	Italy	1
Hydrographic course Cat A	Aug-2017- Aug 2018	IHO	USA	1

Training received outside the capacity building program:

✓ One person attended CAT B hydrography training course at FOST(UK) in 2018;

✓ One person attended Marine Cartography and data Assessment Course (Cat-B) organized by UKHO;

✓ Two persons attended International ENC Validation Training Course organized by IC- ENC.

5. Capacity building



Workshop on ENC Production and Distribution Turkey 2017



Maritime Boundary Delimitation Workshop Turkey 2017 Romanian Maritime Hydrographic Directorate

Training needed:

- Law of the sea practical course;
- Nautical cartography and hydrography courses, cat A and cat B;
- Oceanography course;
- S-100 product specification course.



13

6. Oceanographic activities

OCEANOGRAPHIC ACTIVITIES	
Tide gauge network:	4 water level monitoring systems in Constanta, Midia, Sulina and Mangalia
Equipment:	Pressure gauge Valeport tidemaster
Oceanographic measurements:	Oceanographic measurements were performed for: Midia, Mangalia, coastal route Constanta – Mangalia and the pouring mouth of Danube in Black Sea through Sulina and Sf. Gheorghe.
Problems encountered:	Lack of training courses for the oceanography personnel

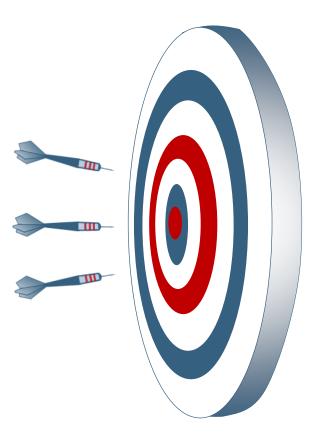
7. Other activities

✓ RO MHD collects meteorological data for Romanian Navy use;

✓ RO MHD provides signaling for Romanian coast through lighthouses;

✓ RO MHD creates special naval charts for Romanian Navy use, acordind to NATO standards;

✓ Close cooperation with national research institutes and private companies activating in marine research field to improve the quality of hydrographic products and services.



Thank you for your attention

Questions???