NATIONAL REPORT OF ESTONIA

Executive summary

This report summarizes the activities of the Estonian Maritime Administration in the field of hydrography since the Baltic Sea Hydrographic Commission 19th Conference in 2014.

1. Hydrographic service

The service in the field of hydrography is generally provided by two departments of the Hydrography and Aids to Navigation Division (head Mr Taivo Kivimäe) of the Estonian Maritime Administration:

- 1) Hydrography Department (head Mr Peeter Väling),
- 2) Cartography Department (head Mr Tonis Siilanarusk)

Altogether about 35 specialists are occupied in those two departments.

Survey vessels

The Hydrography Department (13 officers) deals with surveying (data collecting and post-processing). For surveys the following hydrographic vessels are used:

- 1) JAKOB PREI 25 m SWATH type brand new survey vessel;
- 2) EVA-320 18 m twin-hull survey vessel for coastal areas;
- 3) EVA 303 6 m single-hull survey-boat on rivers and shallow coastal areas;
- 4) EVA-301 20 m twin-hull multipurpose vessel for survey in inland waters and for maintenance of the aids to navigation.

Hydrographic survey

In 2014 hydrographic survey in Estonian waters was carried out as follows:

- 1) 2384 km² on HELCOM routes in the Gulf of Finland and the Northern Baltic (CAT I and CAT II);
- 2) 232 km² on coastal routes in the Gulf of Finland (CAT II);
- 3) 67 km² Lake Peipsi;
- 4) 25 km² Lake Võrtsjärv;
- 5) 3 km² Harbour areas (surveyed by private companies).

All surveys were carried out according the IHO S-44 standards Special, Ia and Ib.

For maintaining and accessing survey data a web-accessible database called the Hydrographic Information System (HIS) is used. It is a seamless database for hydrographic information such as survey areas, depths, underwater objects, contours and storage for raw data. Management of all Estonian survey areas including inland waters is carried on depending on the status of the area (planned, under survey, surveyed, under cleaning, cleaned, under validation or final). Survey data from other parties/companies are included in HIS as well. Backup of data is automatic. Public access (without download services so far) is available at the following link: http://195.80.112.238:8080/HIS/Avalik?REQUEST=Main.

3. New charts & Updates

ENCs:

Estonian waters are completely covered with all relevant navigational bands. Total: 119 cells in navigational purpose bands 2-6 (Band 2-7 cells, Band 3-14 cells, Band 4-25 cells, Band 5-17 cells, Band 6-56 cells). ENCs are updated in real time. In 2014 25 new cells, 28 new editions and 411 updates were produced.

At the end of 2009 WMS web page was accomplished where the navigational charts and topographical maps are assembled. For more information please click on the Estonian Maritime Administration home page "MAP APPLICATION FOR ESTONIAN LAND AND SEA AREAS"

Starting from 2015 EMA is developing new WMS web page for smart devices. The trial version is available on the web page http://gis.vta.ee/nutimeri/

In 2015 7 new cells, 19 new editions and 219 updates were produced.

ENC Distribution method

EMA has signed Distribution Agreements with: Norwegian Hydrographic Service (PRIMAR – Stavanger), Transas DataCo Ltd, NAVIONICS, JEPPESEN Italia SRL, Garmin Ltd, Tridentnav Systems HB, Euronav Ltd and several other derived product producers.

RNCs

Not produced.

INT charts

EMA produces and updates 17 INT charts.

National paper charts

The portfolio of the currently updated charts for the Estonian waters comprises 65 charts produced in accordance with international standards. In 2014 5 new charts were printed. In 2015 7 new charts were printed. New version of Chart No 744 (1:25 000)

"Sviby-Rohuküla-Heltermaa" (2015) contains the Chart "Rukki Channel" (1:7500). Chart No 850 "Rukkirahu Channel-Rohuküla Harbour" (1:7500) is no longer corrected with NtM.

The scheme of the Estonian paper charts is given in: http://adam.vta.ee/teenused/hnt/dokumendid/4kartogrammi.pdf

Other charts, e.g. for pleasure craft

New revised edition of "Charts of Estonia", Vol 1, "Suurupi Peninsula to Narva" was published in March 2015.

Small correction of "Charts of Estonia", Vol 2, "Suurupi Peninsula to Saaremaa" was published in August 2015.

4. New publications & Updates

New Publications

Starting from 2011 EMA is publishing the *List of Lights* and *Notice to Mariners* digitally, available on the home page (http://www.vta.ee/atp/index.php?id=1748).

Starting from 2012 EMA is also publishing the *Sailing Directions* digitally on the homepage (http://www.vta.ee/atp/index.php?id=18625).

Starting from 2013 EMA is administrating State Port Register (http://www.vta.ee/state-port-register-2/) State Port Register will provide an overview of all ports registered in Estonia, including maritime ports and inland ports. The register contains information about port location, port technical data, port services, port manager and harbour master.

Starting from 2015 EMA is publishing the full digital database of aids to navigation, available only in Estonian on the EMA home page (http://www.vta.ee/database-of-aids-to-navigation/).

5. MSI

Existing infrastructure for transmission

NAVAREA 1 Baltic Sea sub area co-ordinator Sweden is responsible for NAVTEX Service covering the Estonian waters and messages are transmitted by Swedish (Stockholm Radio) and Estonian (Tallinn Radio) transmitters.

6. S-55

Latest update (Tables)

See ANNEX 1 and ANNEX 2.

7. Capacity Building

Nothing to report

8. Offer of and/or demand for Capacity Building

Nothing to report

9. Other activities

Participation in IHO Working Groups

EMA is participating in the following committees and WG: HSSC, ENCWG, S-100WG, NIPWG

Meteorological data collection

In frame of the project EfficienSea (Efficient, Safe and Sustainable Traffic at Sea) for the Baltic Sea a portal called METOC (http://on-line.msi.ttu.ee/metoc/) was established. This portal gives information about all operative/ real time measurements in the Estonian coast and coastal sea. The METOC collects all measured data from different measurement stations of the Marine System Institute of the University of Technology of Tallinn, the Estonian Environment Agency (EEIC) and also from sensors of navigational buoys of the Estonian Maritime Administration. From measurement stations the following information is available, which is important for navigation: wind speed and direction, visibility, sea level, wave height etc. From buoys information regarding wave height and period is available.

Information regarding weather observation and forecast is available on the home page of the Estonian Environment Agency (http://www.ilmateenistus.ee/?nlan=eng).

Geospatial studies

Cooperation with involved institutions to prepare for INSPIRE Directive.

ANNEX 1

Basic Data

Maritime Nation/Area	Nation or Area Code	Region ID	Nation or Area (N or A)	EEZ (sq km x 1000)	Length of Coastline (km)	Data for S-55 Edition No.	Latest Update	IHO Membe r State
Estonia	EE	EU	N	36,3	3780	1	June-08	Y

ANNEX 2

Hydrographic Resources

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	Maritime	Hydrographic Surveying Vessels			Hydr. Staff		Positioning Methods			
Γ	Nation/Area									
		> 100 m	50 m -	25	< 25	Specialist	Assistan	Long > 40	Medium 5-40 km	Short Range
			100	m	m	s	ts	km		
			m	-						
				5						
				0						
				m						
Esto	nia	-	-	1	3	13	-	LRTK	RTK	RTK