

**BSHC 15**  
**21-23 September 2010**  
**Gdynia, Poland**

## **NATIONAL REPORT OF ESTONIA**

### **Executive summary**

This report summarizes the activities of the Estonian Maritime Administration in the field of hydrography since the last Baltic Sea Hydrographic Commission 14th Conference in 2009.

### **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 Toivo Prela) of the Estonian Maritime Administration:

- 1) Hydrography Department (head Dr Jaan Lutt),
- 2) Cartography Department (head Mr Tõnis Siilantarusk)
  - a) Books and Reference Section (head Mrs Malle Hunt)

Altogether about 40 specialists are occupied in those two departments.

#### **Survey vessels**

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

- 1) SEKTORI – a 36 m single-hull multipurpose ship (buoy tender and hydrographic vessel) for open sea (starting from the beginning of 2009);
- 2) EVA-320 – a 18 m twin-hull survey vessel for coastal areas;
- 3) AMA-080 – a 6 m single-hull survey-boat on rivers and shallow coastal areas;
- 4) EVA-301 – a 20 m twin-hull multipurpose vessel for survey in inland waters and for maintenance of aids to navigation.

All survey vessels are equipped with multi-transducer sonar-systems (developed by Ahero Ltd, Estonia). Survey software has been developed by R-SYSTEM Ltd. For positioning RTK-GPS is used.

In August 2009 the Estonian Maritime Administration signed the agreement with the Abeking & Rasmussen (Germany) for building a specially designed and equipped hydrographic vessel for survey on open sea and coastal areas. The type of the ship is SWATH, and technical data are: length – 25 m, width – 13 m, draught – 2,7 m. The vessel will be completed in spring 2012.

## Hydrographic survey

Hydrographic survey in Estonian waters during 2009 (until 17.08.2009) was carried out as follows:

2009

- a) 603.4 km<sup>2</sup> - on HELCOM routes in Gulf of Finland;
- b) 622.8 km<sup>2</sup> - on coastal routes (Gulf of Finland);
- c) 110.9 km<sup>2</sup>- in inland waters (lake Peipsi – 71.6 km<sup>2</sup>, lake Võrtsjärv – 37.1 km<sup>2</sup> and river Emajõgi – 2,0 km<sup>2</sup>);
- d) 5,0 km<sup>2</sup> - in harbour areas (private companies).

2010 first half (until 30.06.2010)

- e) 102.4 km<sup>2</sup> - on HELCOM routes in Gulf of Finland;
- f) 108.2 km<sup>2</sup> - on coastal routes (Gulf of Finland);
- g) 34.2 km<sup>2</sup>- in inland waters (lake Peipsi – 21.8 km<sup>2</sup>, lake Võrtsjärv – 12.4 km<sup>2</sup>);
- h) 1,0 km<sup>2</sup> - in harbour areas (private companies).

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

## 3. New charts & Updates

### ENCs:

Estonian waters are completely covered with all relevant navigational bands.

Total: 70 cells in navigational purpose bands 2 – 6 (Band 2 – 7 cells, Band 3 – 14 cells, Band 4 – 21 cells, Band 5 – 13 cells, Band 6 – 15 cells).

ENCs are updated in real time.

In the end of 2009 WMS webpage, where the navigational charts and topographical maps are assembled, was accomplished. For more information please click in the Estonian Maritime Administration home page “MAP APPLICATION FOR ESTONIAN LAND AND SEA AREAS”

In 2010 7 new cells, 7 new editions and 18 updates are produced.

### ENC Distribution method

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

### RNCs

Not produced

### INT charts

EMA produces and updates 10 INT charts and asked for 20 new INT chart numbers.

## **National paper charts**

The portfolio of the currently updated charts for the Estonian waters comprises 65 charts produced in accordance with international standards. In 2009 no new charts were printed.

## **Other charts, e.g. for pleasure craft**

In 2009 one small (A2) chart album was printed.

## **4. New publications & Updates**

### **New Publications**

In 2010 new List of Lights for Estonian waters was published.

## **5. MSI**

### **Existing infrastructure for transmission**

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

## **6. S-55**

### **Latest update (Tables)**

See Annex 1

## **7. Capacity Building**

### **Offer of and/or demand for Capacity Building**

Nothing to report

## **9. Other activities**

### **Participation in IHO Working Groups**

EMA is participating in following committees and WG:

HSSC, SNPWG and MSDIWG.

**Meteorological data collection**

None

**Geospatial studies**

Cooperation with involved institutions to prepare for INSPIRE Directive.

**Annex 1**

**Basic Data**

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

**Annex 2**

**Hydrographic Resources**

<b>Maritime Nation/Area</b>	<b>Hydrographic Surveying Vessels</b>				<b>Hydr. Staff</b>		<b>Positioning Methods</b>		
	<b>&gt; 100 m</b>	<b>50 m - 100 m</b>	<b>25 m - 50 m</b>	<b>&lt; 25 m</b>	<b>Specialists</b>	<b>Assistants</b>	<b>Long &gt; 40 km</b>	<b>Medium 5-40 km</b>	<b>Short Range</b>
Estonia	-	-	1	3	13	-	LRTK	RTK	RTK