

## **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 13th 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 Praela) of the Estonian Maritime Administration:

- 1) Hydrography Department (head Dr Jaan Lutt),
- 2) Cartography Department (head Mr Tonis Siilanausk)
  - a) Navigational Information Section (head Mr Enn Sepp),
  - b) 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) EVA-308 – a 60 m single-hull multipurpose ship (buoy tender and hydrographic vessel) for open sea (up to the end of 2008);
- 2) SEKTORI – a 36 m single-hull multipurpose ship (buoy tender and hydrographic vessel) for open sea (starting from the beginning of 2009);
- 3) EVA-320 – a 18 m twin-hull survey vessel for coastal areas;
- 4) AMA-080 – a 6 m single-hull surveyboat on rivers and shallow coastal areas;
- 5) 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:

- a) 550.6 km<sup>2</sup> - on HELCOM routes in Gulf of Finland;
- b) 219.7 km<sup>2</sup> - on coastal routes (Gulf of Finland);
- c) 50,0 km<sup>2</sup> - in inland waters (lake Peipsi – 40,0 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).

All surveys were carried out according to 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: 72 cells in navigational purpose bands 2 – 6 (Band 2 – 7 cells, Band 3 – 14 cells, Band 4 – 23 cells, Band 5 – 13 cells, Band 6 – 15 cells).

ENCs are updated in real time.

In 2009 13 new cells, 8 new editions and 208 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 9 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 2008 6 charts were printed (No 305, 509, 603, 605, 612 and 827).

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

In 2008 one small (A3 format) and two bigger (A2 format) chart albums for pleasure crafts were printed. In 2009 one small chart album was printed.

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

### **New Publications**

In 2008 “The United Nations Convention on the Law of the Sea” (in Estonian) and “English – Estonian Maritime Dictionary” were 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 transmitters (Tallinn Radio).

## **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. The Estonian Maritime Administration with Estonian Land Board is developing a public GIS solution, covering coastal sea and costal areas of Estonia.

#### 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 Member State
Estonia	EE	EU	N	36,3	3780	1	June-08	Y

#### Annex 2

##### Hydrographic Resources

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