

**BSHC 13**  
**19-21 August 2008**  
**Rostock**

## **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 12th Conference in 2007.

### **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 Siilanoarusk)
  - 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 4 hydrographic vessels are used:

- 1) EVA-308 – a 60 m single-hull multipurpose ship (buoy tender and hydrographic vessel) for open sea;
- 2) EVA-320 – a 18 m twin-hull survey vessel for coastal areas;
- 3) AMA-080 – a 6 m single-hull surveyboat 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-method uses special base-stations in coastal areas and FUGRO-system in the open sea.

## **Hydrographic survey**

Hydrographic survey in Estonian waters during 2007 was carried out as follows:

- a) 584,7 km<sup>2</sup> - on HELCOM routes in Gulf of Finland;
- b) 594,8 km<sup>2</sup> - on coastal routes (Gulf of Riga and Väinameri);
- c) 42,0 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) 10,0 km<sup>2</sup> - in harbour areas (private companies).

All surveys were carried out according the IHO S-44 standard.

## **3. New charts & Updates**

### **ENCs:**

Estonian waters are completely covered with all relevant navigational bands.

Total: 73 cells in navigational purpose bands 2 – 5.

ENCs are updated on a monthly basis.

Since the last BSHC Conference 9 new cells, 10 new editions and 94 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, ELMERIINA etc.

### **RNCs**

Not produced

### **INT charts**

EMA produces and updates 8 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. Since 2007 EMA has issued 7 new editions of these charts. In 2007 a new harbour (Sillamäe) chart was published.

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

In 2007 one chart album for pleasure crafts was printed.

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

### **New Publications**

In 2007 “The International Regulations for Preventing Collisions at Sea – 1972” (in Estonian and English) and “Estonian Pilot Book 2007”.(in Estonian) were published. In 2008 “The United Nations Convention on the Law of the Sea” (in Estonian) was published.

### **Updated publications**

In April 2008 new edition of the “The List of Lights” for Estonian waters was printed.

## **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:  
CHRIS Committee, WEND Committee, SNPWG.

### **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