

BSHC 12
12-14 June 2007-06-07
Klaipeda

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 11th Conference in 2005.

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 Tonis Siilanmarusk)
 - 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 5 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) EVA-321 – a 15 m single-hull multipurpose boat for inland waters;
- 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-method uses special base-stations in coastal areas and FUGRO-system in the open sea.

The EVA-301 was constructed by Uudenkaupunkin Työvene OY (Finland) and delivered to EMA in May 2007. The ship is equipped with a 57-beam sonar-system and will start the survey in June 2007.

Hydrographic survey

Hydrographic survey in Estonian waters during 2006 was carried out as follows:

- a) 606 km² - on HELCOM routes in Gulf of Finland (GOF-1 and GOF-2, Sil-01);
- b) 389 km² - on coastal routes (Gulf of Riga and Väinameri);
- c) 49,6 km²- in inland waters (Lake Peipsi – 29,8 km² and Narva River – 19,8 km²);
- d) 7,0 km² - 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: 72 cells in navigational purpose bands 2 – 5.

ENCs are updated on a monthly basis.

Since the last BSHC Conference 7 new cells, 34 new editions and 224 updates are produced.

ENC Distribution method

EMA has signed Distribution Agreements with: Norwegian Hydrographic Service (PRIMAR – Stavanger), Transas DataCo Ltd, C- Map Norway AS, Garmin Ltd, Tridentnav Systems HB and Euronav Ltd.

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 64 charts produced in accordance with international standards. Since 2005 EMA has issued 15 new editions of these charts. In 2007 a new harbour (Sillamäe) chart will be published.

Other charts, e.g. for pleasure craft

In 2005-2006 two chart albums for pleasure crafts were printed.

4. New publications & Updates

New Publications

In February 2007 “The International Regulations for Preventing Collisions at Sea – 1972” was published (in Estonian and English).

Updated publications

In April 2006 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**

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	May-07	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	-	4	13	3	DGPS	DGPS, RTK	DGPS RTK