

**Questionnaire to BSHC Member States on their implementation status of the transition to a Harmonised Vertical Reference, Baltic Sea Chart Datum 2000.**

Last three questions (9 - 11) concerns GNSS-augmentation/correction services used in member states.

Please return to Mr. Jyrki Mononen by email ([jyrki.mononen@liikennevirasto.fi](mailto:jyrki.mononen@liikennevirasto.fi)) at the latest by **26 January 2018**.

Member state	Estonia
Date of reply	26.01.2018
Point of Contact	Gabriela Kotsulim ( <a href="mailto:gabriela.kotsulim@vta.ee">gabriela.kotsulim@vta.ee</a> )

**1. Are all the decisions done to implement the Baltic Sea Chart Datum 2000?**

1.1. When the decisions has been done or planned to be done?

Planning is partly done, all decisions left to be done in 2018.

1.2. What are the national decisive organizations?

Estonian Maritime Administration

**2. What is the national status of implementation?**

2.1. When the first BSCD2000 products are planned to be published?

2018

2.2. What is the planned time-span of the implementation? When to start and when all the products are published in BSCD2000?

We started in 2018; with current resources we estimate the process to take approximately 7 years

**3. Are the relevant national contacts and interest groups defined?**

3.1. What are the essential national interest groups in Your country?

Harbours, mariners, educational institutions, scientific organizations.



3.2. Are the relevant point of contacts known and contacts been made to them?

Yes

3.3. How is the water level information planned to be provided to mariners and other users in BSCD2000?

Information in harbours and Via specialized data portals:

- \* Sealevel Information System ( <http://on-line.msi.ttu.ee/meretase/?en> )- water level is shown in both height systems
- \* Estonian Weather Service
- \* Estonian Maritime Administration homepage
- \* Notices to mariners
- \* Port Register

#### 4. Have You identified any obstacles or major issues concerning transition to the harmonized vertical reference?

4.1. What are the major obstacles or issues?

Very much work, budget problems, explaining relevant issues to port and ship owners.

4.2. What measures has been planned to avoid them?

Communication and project planning.

#### 5. Connections to neighbouring countries

5.1. Which are the relevant countries to cooperate?

Baltic Sea countries

5.2. Are the needed points of contacts already known?

Yes

5.3. What actions have been agreed with the relevant countries (e.g. synchronising plans and schedules)?

Will share the experience with Finland in February.

#### 6. Are there any needs for support from BSHC?

Maybe



Finnish Transport Agency  
Hydrographic Office  
Helsinki, 8 December 2017

**7. Do you have any other proposals or guidance to the CDWG to help and foster the transition process?**

We have some questions:

\*Estonian old height system BK77 was similar to the mean sea level – all paper charts and publications had been marked as referenced to the mean sea level. BSCD2000 is even more far away from our mean sea level. Should we still reference to mean sea level?:

Chart projection: Mercator

Horizontal Datum: WGS-84

The depths and heights in metres, reduced to Mean Sea Level (Baltic Sea Chart Datum 2000<sup>EH200</sup>)

Aids to Navigation: IALA Maritime Buoyage System – Region A

\*We want use on ENC-s some indicator of the height system until all ENC-s are in BSCD2000. Primar suggested Caution Area (CTNARE).  
What is your opinion on that?

**8. Are you using GNSS and GNSS augmentation services for referring to your (bathymetric) surveys to the chart datum?**

YES

**9. What GNSS augmentation service is used for hydrographic surveys? (If there are several augmentation services, list all of them.)**

VRS Service provided by HADES OÜ

**10. To which coordinate system, and vertical reference level/frame the augmentation service is referred to? (If there are several systems in use, list all of them.)**

WGS-84 (ETRS89, EH2000 via geoid model from end of 2017)