



Finnish Transport Agency  
Hydrographic Office  
Helsinki, 8 December 2017

## 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	Germany
Date of reply	23.01.2018
Point of Contact	Dr. Patrick Westfeld <a href="mailto:patrick.westfeld@bsh.de">patrick.westfeld@bsh.de</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?

*In September 2016, Germany decided to introduce the new national height system DHHN-2016 plus the quasi geoid model GCG-2016. The zero level of DHHN-2016 is in accordance with Amsterdams Peil (NAP), the normal potential is defined by the Geodetic Reference System 1980 (GRS80). DHHN-2016 thus corresponds to EVRS, except for a few centimetres.*

*The official introduction was decreed in January 2018 and is binding for all institutions coming under the jurisdiction of the German Waterway and Shipping Administration.*

1.2. What are the national decisive organizations?

*Federal Maritime and Hydrographic Agency (BSH)*

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

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

*The vertical chart datum of BSCD2000 is close to the national height system of Germany (DHHN). All published products always refer to this datum.*

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

*Everything is done.*



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

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

*From user side, all operators using (hydrographic) survey data. From administrative side, primarily the Federal Maritime and Hydrographic Agency, and partly the German Waterway and Shipping Administration and the German Federal Institute.*

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

*Not really because no relevant changes had to be reported.*

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

*All Baltic Sea nautical charts and publications provided by BSH refer to DHHN as vertical chart datum.*

### 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?

*No obstacles could be identified.*

4.2. What measures has been planned to avoid them?

*N/A*

### 5. Connections to neighbouring countries

5.1. Which are the relevant countries to cooperate?

*Denmark, Sweden, Poland*

5.2. Are the needed points of contacts already known?

*No*

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

*No actions have been agreed.*

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

*No*



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

No

**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.)**

*SAPOS satellite positioning service of the German land survey authorities*

**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.)**

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