

# Summary of implementation status 2021:

Country	Status	Other remarks
Denmark	Chart datum in practice close to EVRS-based chart datum.	Will follow the Swedish approach and implement BSCD2000 when Sweden do in waters close to Denmark.
Estonia	All decisions are taken and the implementation is ongoing. Used in charts and water level information from 2018-01-01. <a href="#">Water level presented</a> both in BK77 and EH2000/BSCD2000. The changes is up to 30 cm in new charts.	Levelling for national height system has been finalized. Data in depth database will be transformed. New charts with the new reference will be produced continuously, The first charts have been produced in 2018 and and so far the following has been completed: 13 harbour ENC-s, 72 berthing ENC-s, 6 harbour paper charts , 11 berthing paper charts and 2 chart album that contains charts from two height systems. <a href="#">Notices to Mariners 2017-12-01</a> . New reference homepage and booklet.
Finland	Ongoing. All decisions are taken already in 2008 and 2015. Implementation plan finalized 2018-12-12. The N2000/BSCD2000 has been implemented in the data models of bathymetric data and fairway management system and chart production system. BSCD2000 will be introduced on the nautical charts, starting in late 2021 with a new hydrographic chart data management and production system AHTI.	Finnish Meteorological Institute (FMI) has started a project concerning water level information in the Baltic Sea. Differences between MSL and N2000/BSDC2000 are provided as a <a href="#">table</a> . Sea level observations and forecasts will be available in BSCD2000 for the public simultaneously with Traficom nautical charts, starting 2021. New <a href="#">video</a> about the N2000 fairway and nautical chart reform.
Germany	EVRS realization in use in practice. The vertical chart datum of BSCD2000 is close to the national height system of Germany (ETRS1989+DHHN2016). All published products will refer to this datum. In August 2021, BSCD2000 was officially introduced as chart datum for German waters in the Baltic Sea.	The database refers to national height system. 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.
Latvia	BAS77 still used. New national height system LAS2000,5 (EVRS-based) into use in 2015. At the end of previous year MAL published first harbour navigation chart that are referred to MSL (BSCD2000, LAS-2000,5). Further planned actions are to step by step implement BSCD2000, LAS-2000,5 to new editions of charts in a following sequence – harbour charts, coastal charts, general charts.	Differences between BAS77 and Baltic Sea Chart Datum 2000 is well known and can be accessed by web-application and info in all nautical charts how to transform depths to BSCD2000. Details regarding depth conversion to BSCD2000 are given in chart notes. Latvia have <b>3</b> new ENCs with the new reference datum.
Lithuania	BHS-77 still used. National height system LAS07 (EVRS-based) came into force 2016-01-01.	National height system is LAS07 (EVRS based), into use in 2016. The difference between BHS-77 and LAS07 is well known (about 13 cm) and is also written in nautical charts. Tide gauges in Lithuania belongs to the Lithuanian Hydrometeorological Service. Data from tide gauges are presented in BHS-77.
Poland	Currently - local datum Amsterdam NN55 is in use. New datum PL-EVRF2007-NH/BSCD2000 is been defined. Corrections have been established between the local vertical datum (Amsterdam NN55) and the EVRF for costal water level stations. Bathymetric measurements collected in the bathymetric database were transferred to the vertical reference system PL-EVRF2007-NH. In 2021, gravimetric measurements in Polish waters were completed. September 2021 - information campaign about a new chart datum. 2021 – 2023 new editions of all INT harbour, approach and coastal charts.	Poland have an legal act about reference systems, which allows to use other than PL-EVRF2007-NH datum no longer until the end of 2023. Institute of Meteorology and Water Management (IMWM) runs the Polish water level stations. The difference between the local datum and PL-EVRF2007-NH (BSCD2000) is less than 9 cm.
Russia	Actions and plans are dependent on the implementation of the new state coordinate system.	A new State Coordinate System 2011 (GSK-2011) for consumers, navigation, geodesy and cartography implemented 1 January 2017. Any decisions concerning the transition to the harmonized vertical reference could be done not earlier than the end of GSK-2011 implementation.
Sweden	Ongoing. All decisions are taken. Many charts already published. All water level information is related to RH2000/BSCD2000, since 2019-06-03. The difference between mean sea level and BSCD2000 at the water level stations are presented in this <a href="#">table</a> .	Implementation is a part of the "Chart Improvement Project", to be concluded on time at the latest in 2024. Cooperation with SMHI on water level information. <a href="#">Notices to Mariners 2019-05-15</a> . Information campaigns in 2019 for ports, pilots and other interested parties. Several articles written in magazines and on webpages. <a href="#">New Info Sheet about BSCD2000 from SMA/SMHI</a> .