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Surveying the world of tomorrow - From digitalisation to augmented reality
A Harmonized Vertical Reference System for the Baltic Sea

Baltic Sea Chart Datum 2000

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Challenge: No common vertical reference in the Baltic Sea

Solution: EVRS-based vertical reference

Relevant interest groups:
- Baltic Sea Hydrographic Commission (BSHC)
- National Hydrographic Organizations
- National geodetic agencies
- Mariners, ports, pilots
Benefits

- Easier, safer, more efficient shipping and navigation
- Depths in sea and heights on land in same vertical datum
- Wider and easier use of depth data
- No confusion between different MSL-realizations
- Future -> 3D-navigation
Major changes

• From mean sea level (MSL) to a geodetic vertical system!
• Depths in nautical charts and navigational information in common European vertical system
• Depth figures in nautical charts will change especially in northern Baltic Sea
Conclusions

- Harmonized vertical datum for the whole Baltic Sea: *Baltic Sea Chart Datum 2000*
- Mean sea level (MSL) to EVRS
- Easier for mariners
- Easier use of depth data
- Supports future navigation needs
- Implementation of the *Baltic Sea Chart Datum 2000* has started
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Thank You!
Joy Knah