

FIG

FIG WORKING WEEK 2017

Helsinki Finland

29 May - 2 June 2017

*Presented at the FIG Working Week 2017,
May 29 - June 2, 2017 in Helsinki, Finland*



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From digitalisation to augmented reality

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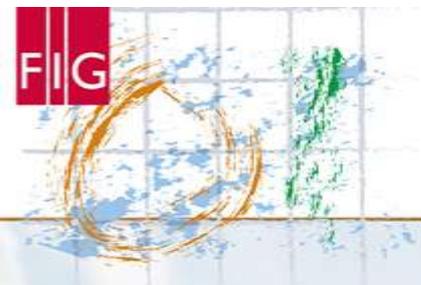


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A Harmonized Vertical Reference System for the Baltic Sea *Baltic Sea Chart Datum 2000*

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31 May 2017



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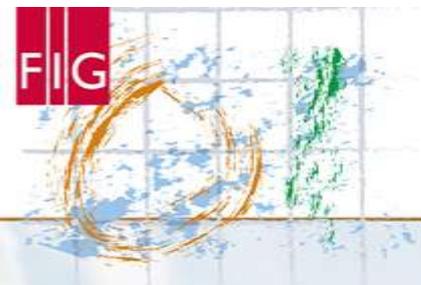


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Challenge: No common vertical reference in the Baltic Sea

Solution: EVRS-based vertical reference

Relevant interest groups:

- **Baltic Sea Hydrographic Commission (BSHC)**
- **National Hydrographic Organizations**
- **National geodetic agencies**
- **Mariners, ports, pilots**



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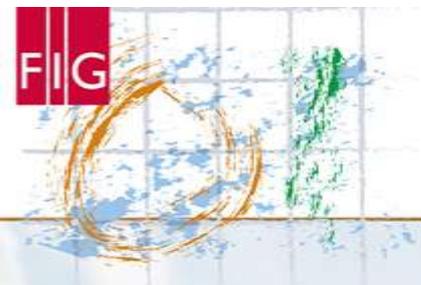


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Benefits

- **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**



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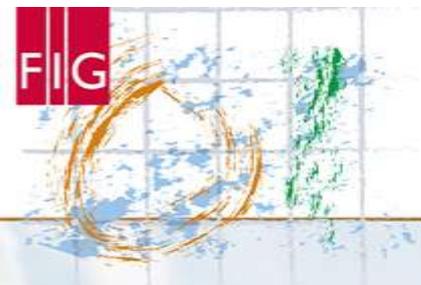


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Major changes

- 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



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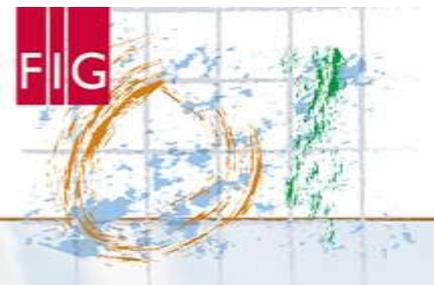


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Conclusions

- **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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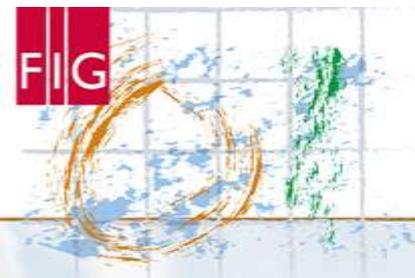


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