



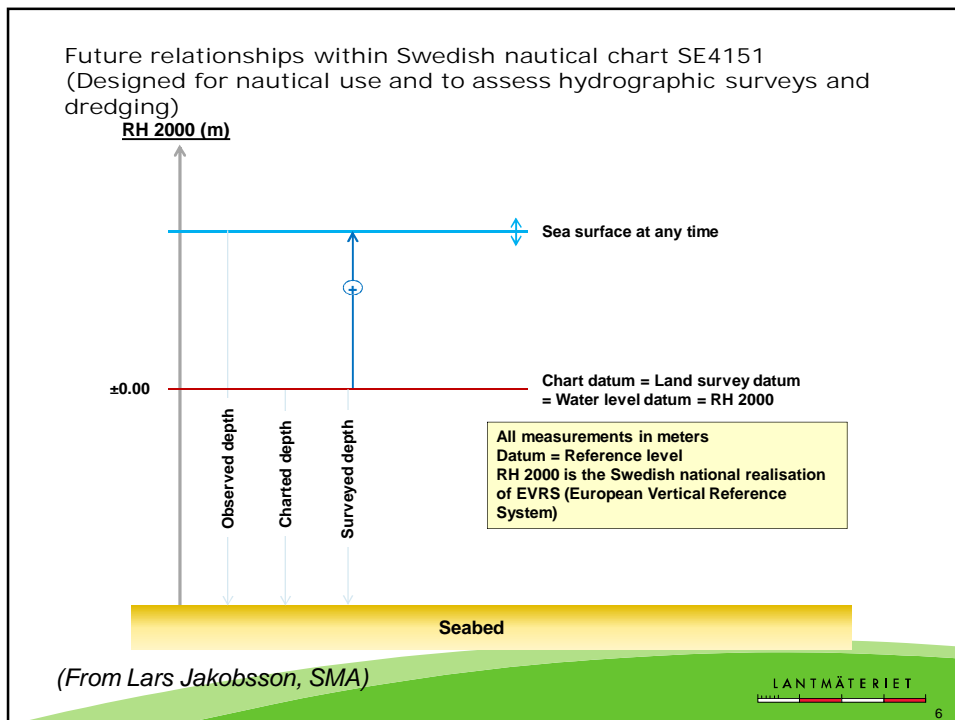
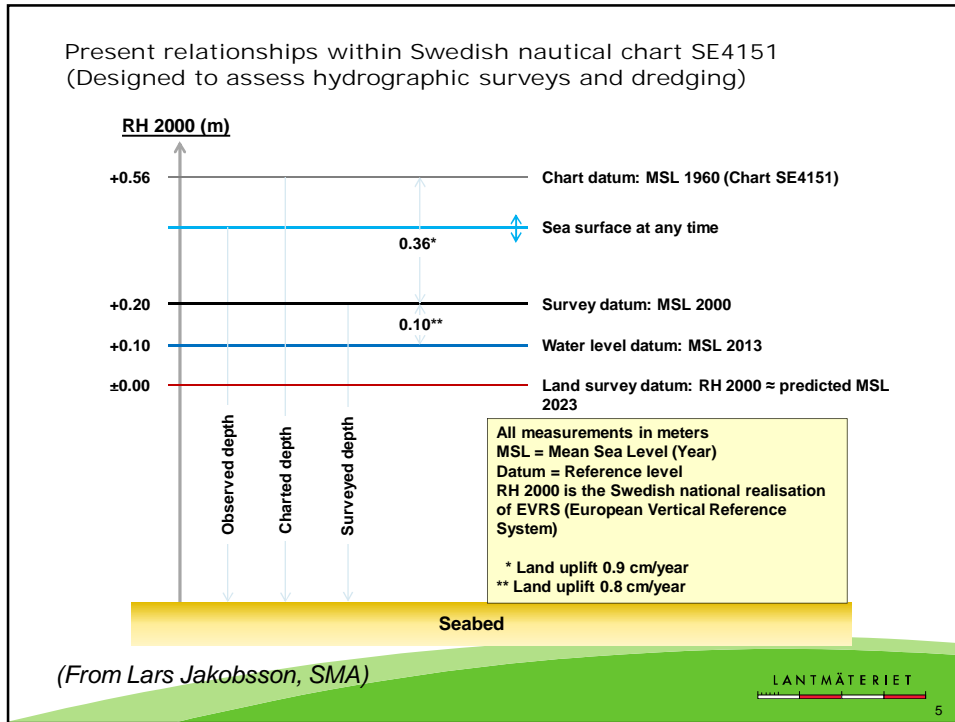
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Objective of CDWG Work

International (BSHC) objective

- To develop and to realize a common seamless Chart Datum over the whole Baltic Sea
- Finland and Sweden have specific problems in the realization
- Land uplift will continuously change the depths, therefore the adopted Chart Datum shall have the possibility to deliver the correct information about the available depth in spite of this geological effect.



Status of CDWG Work

Brief history

- CDWG has been active since 2005
- In the beginning the lack of suitable reference frame for harmonization was the major challenge
- Now we have the reference frame EVRS and this has also a sufficient realization almost everywhere around the Baltic Sea
- Harmonization of vertical references is a true issue (INSPIRE and other EU activities)
- CDWG has good contacts with geodetic and oceanographic institutes and their international bodies, all are deeply interested in our plans and willing to assist and co-operate
- IHO (TWLWG) understands now this Baltic Sea harmonization plan.
- On national level the procedures and organizations responsible on land survey issues are different. Re-compiling of charts is not the only problem. CDWG is cannot recommend a common procedure for all.
- "All" are committed to this plan, and preparation for CD change ore ongoing on many countries. The schedules are however quite provisory.

CDWG meeting 22 – 24 April 2013, Rostock

General

- Estonia, Finland, Germany, Sweden and Finland were present
- Associate members
 - Dr Günter Liebsch (BKG, Germany)
 - Prof. Jaakko Mäkinen (FGI, Finland)
 - Dr. Martin Lidberg (Land Survey, Sweden)
 - Dr. Thomas Hammarklint (SHMI, Sweden, representing BOOS)
- Discussions about scientific issues related to water level were fruitful. One conclusion is that a common (standardized) geoid model for the whole sea area will be a necessity in the near future.
- Scientific organizations have an interest in creating such model, but that will require activity from the users side, too

Main agenda items

- Results of the questionnaire to the member states
- CDWG proposal for amendments to IHO resolution 3/1919 (TWLWG5)
- Action list and the renewal of the work programme were well outlined but not finalized at the end of the meeting.

Results of the questionnaire

Quick summary of the questionnaire

| Country | EVRS = national datum | Chart Datum = EVRS |
|-----------|--|--|
| Denmark | No, but the difference is negligible | All charts are based on national datum~EVRS |
| Germany | Own national datum for land and hydrographic surveys | Depths for cartography will be given in EVRS. Charts are not EVRS now, when? |
| Poland | No plans for EVRS | ?? |
| Lithuania | Will be in the nearest future | No exact schedules |
| Latvia | Will be during 2013 | Within 5-6 years |
| Estonia | Will be during 2013-14 | Soon after 2014 |
| Russia | | |
| Finland | Yes, since 2008 | Plans are open |
| Sweden | Yes, since | Decision: before 2020 |

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IHO resolution 3/1919

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IHO resolution 3/1919

- A lot of e-mail correspondence in TWLWG autumn 2012
- Based on this discussion CDWG prepared an own proposal to be presented in TWLWG5 three week later
- In TWLWG5 some terminology was clarified, proposal was accepted and sent to HSSC5
- If (when) HSSC5 accepts this amendment to resolution 3/1919, it will require a lot of work in other IHO WG:s. BSHC member states have to be active in this work.

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Chairmans comments about the
the future work of CDWG

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Comments

- CD harmonization eq. change to EVRS reference in progress in most of the member states
- This progress requires still harmonization, in schedules and also in methods
- Co-operation with BOOS and other oceanographic organizations is necessary for the correct water level information for the mariners
- 3D-positioning will be in use sooner or later, both in hydrographic surveys and in marine navigation. This will require a common coordinated and accepted geoid model for the whole Baltic Sea area
- Requirements for the harmonized spatial data open for all will be a standard practice in the future
- IHO TWLWG and other WG:s work have to be supported with harmonized opinions of non-tidal waters

- Therefore, in my opinion, BSHC CDWG is not an one task WG, it have to be a permanent specialists group of this specific sea area and regional commission for numerous future challenges

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Draft Work Programme of BSHC CDWG

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CDWG Work Programme

- 1. Further development of the harmonized height references
 - A common geoid model for the whole Baltic Sea area
- 2. Guidance for the harmonization process of CD to EVRS
 - Harmonized schedules for all countries
 - Exchange of experiences and plans for data base management et.al.
- 3. Co-operation with BOOS and other oceanographic institutes
 - Necessary for broadcasting the water level information
- 4. Relations to other IHO bodies and other international (EU) issues
 - TWLWG

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Actions requested from the BSHC18 Conference

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BSHC18 Conference is requested to

- note this Report
- decide about the continuation of the WG and elect the new chairperson
- give further guidance to CDWG as seen appropriate

Thank you!

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