

| | Questionnaire answer per country | | | | | | |
|--|---|---|---|---|--|--|---|
| Question | Finland | Germany | Latvia | Estonia | Russian Federation | Poland | SWEDEN |
| What height system is currently used for your bathymetric data? | Mean water level | approximate: MSL (mean sea level); exact: NHN (land survey datum) | BHS77 (Baltic Height System 1977), Kronstadt Datum | Baltic Height system 1977 | Baltic Height System. | Nowadays we use two height systems – PL-EVRF2007 and PL_KRON86_NH | Mean Water Level for the year 2000. |
| Is there a fixed relation between the used datum and EVRF? | Yes, it can be calculated | almost fixed: there are small differences varying from -2,2 cm to 0,9 cm. | The difference between BHS77 – UELN = -0.112m (at Klaipeda station). The chart datums differences' problem was analyzed by BSHC ChartDatum WG. | No, but will be soon as our Land Board has started aa official program of replacing our current height system to EVRF. Should be completed after some years. This also means that all our data (not charts) will be recalculated accordingly when we have appropriate recalculation model available. | Yes. | Yes it is – PL_EVRF2007 | The difference varies along the coastline and is always less than 20 cm conversions to RH2000 is possible to make areawise. A conversion to RH2000 is a probable outcome of the BSHC CDWG in a near future.The difference between the heights EVRF-2007and |
| What resolution do you today see possible to distribute in a publicly available bathymetric database for the part covering your territory. Are you willing to provide better resolutions to enhance the quality of the compilation of the publicly available database? | At this stage about 500 meter resolution could be put publicly available in territorial waters, no restriction in EEZ | Today: 50m Grid (in future on our homepage) | Currently we are not distributing bathymetric data. We think that something around 500m, 700m, 800m would be enough. | 5m everywhere where we have surveys in such or better resolution (currently 10800 km2 which is little bit less than 1/3 of all our waters). This includes inland waters. In other areas old data (since Soviet times in much worse resolution) will be available and they will be replaced in order the surveys are going on. By autumn of this year the public web-based data discovery and download system will be operational. | Hydrographic Office of the Navy of the RF is interested in improvement of its Bathymetric Database and constantly improves it. At the same time, detailed bathymetric data for the water areas of the RF present the information for limited use and are the property of the Ministry of Defence of the Russian Federation. Special permission from the Government of the RF is required for open promulgation of such data. All open information is used on current | Today we see possibility to distribute our bathymetric database in the same resolution like in our ENC charts. | 500m Resolution can be provided freely based on the financial aspects. However formal clearance is needed from the Military HQ regarding the Territorial areas. For the compilation a better resolution may be provided in the EEZ zone (but not to be made public). For other areas we need clearance from the Military HQ before we can tell. |
| If a compilation of a 200m grid can be performed by using an underlying resolution of 50m the quality can be significantly improved. | In generally we are willing to provide better resolution, but this issue is related closely with the restrictions by area surveillance act and the negotiations of opening the data in Finland. | not better than 50 m, maybe in future we will have better data in few areas. | It is still early and difficult to say. The denser resolution may be considered in the future in case of a database success and if there will be a real need. | Not now as the 5m resolution is already quite a lot of data and our database design may not handle better resolutions. Our working in-house system delivers 1m resolution data and it could be possible to take outputs from it if necessary. | | We have many places on our part of the Baltic See where the resolution is week. Today we are creating own bathymetric database. When we finish our work I could give you more details about this question. | For the compilation a 100m resolution may be provided in the EEZ zone (but not to be made public). For other areas we need clearance from the Military HQ before we can tell. |
| Can your organisation provide gridded data containing median depth or can distribution only be made using minimum depth per Grid? | Principally we can provide median or minimum depth, but it shall be considered carefully what is reasonable for navigational and other use. | median depths are no problem | First impression is that MIN depth would be easier than Average depth. But median depth is possible. | Not now, we provide raw (I mean cleaned of course) depth points, contours (1m resolution) and underwater objects (wrecks, rocks, obstructions). Grids may be available some years later (depending on progress of PostGis) and yes - in mean depth (currently available depth contours are already made this way). | Modern software affords to develop any sets of bathymetric data. | We have software which can provide gridded data median and minimum depth per grid. | Yes, with the position resolution maintained at 1/256 of the cell size. |
| What formats can you today deliver data in? | Ascii XYZ, shape (chart data) | ascii-data, s57-data,...(maybe others) | XYZ(ASCII) format preferable. | Currently xyz, dxf and daf (Dkart ascii format). kml will also be available. Maybe something else in future. | We can supply data in formats S-57, ASCII, TXT. And also, data may be transmitted in formats, which are more used by GIS (MapInfo, ArcGis). | Test data I send in ASCII format. In the future I think it could be the best format for us. | ASCII, FAU, Shape, (BAG in near future) |
| Can you provide any metadata together with separate portions of data or for each datapoint? Eg. Vertical uncertainty, that the datapoint is a true measured or interpolated value, year of survey? | Yes certain amount. In the future, the BAG format would solve that question | Yes, we can provide metadata for each data-point, but not for gridded data (grid is never “true measured” and it could be difficult to define the year of the survey). No vertical uncertainty for each datapoint (maybe later, not today). | No metadata. | Yes, statistics for survey areas, not for individual datapoints. All our data are true measurements (until we start to deliver grids). | Today, bathymetric and navigational metadata are shown on current ENC, edited by the DNO of the RF MD. More detailed metadata present the information for limited use and are the property of the Ministry of Defence of the Russian Federation. | We can provide metadata together with separate portions of data. Available metadata: year of survey, true or interpolated data, kind of device (SBES or MBES). | Shape files containing areas with data density, survey year, survey type, vertical accuracy, horizontal accuracy. Only populated cells will be delivered. |
| What is your preferred data format for distribution? | BAG or GeoTif | INSPIRE | XYZ(ASCII) format. | Any of the above mentioned formats, but for creating grids from the data the XYZ is usually the most wise one. | Preferable format is S-57. | ASCII format | ASCII, Shape |
| Do you have any other data available that describes the bottom/seafloor that could be used for public presentation in the same way as bathymetry? Eg. bottom classification or density data. | Yes that data is presented in our official charts | ???? | No other data. | Not yet, maybe in future. Our current sonars do not provide anything else than depths. This will change this year when we get new survey ship with good multibeam,side-scan and sub-bottom. | We have such data at our disposal. Such data are on current nautical charts. | Yes we do. We think about information which is locate in our ENC charts. | Possibly reflectivity (Amplitude) values. Course Backscatter Mosaic, Fairway routes. |

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| Do you have possibility to provide polylines describing the shoreline for your region ? | Yes | Yes. | Yes, in ESRI's ArcGIS *.shp format. | Yes, but it is better to get them from our Land Board WMS service (they are the same). http://geoportaal.maaamet.ee/index.php?lang_id=2 | We have such possibility | Yes, we have possibility to provide polylines describing the shoreline. | Yes but at present moment we are unsure about the allowed resolution as the shoreline is the property of the Swedish Land Survey. |
| Do you have any Inspire driven services planned for distribution of bathymetrical data and if so when will they be in service? | Yes, we are establishing INSPIRE elevation theme and piloting BAG production, the time frame for that is not decided yet | Yes, it is planned to start working in 2013, however, it is unclear, when it will be filled. | Currently no any Inspire services are provided . | Yes, as mentioned earlier – available this year (actually available already but not for public). | We do not provide such services. | Nowadays, we does not have Inspire driven in service but we are working in this. | A common portal has been designed for Sweden but for Bathymetry only metadata will be provided except possibly data in the same resolution as provided by the BSHC portal. |
| What types of bathymetrical/nautical data will be freely available by the Inspire implementation? | All information in FTA official charts will be available via INSPIRE network services. This doesn't mean that the data is totally free for reuse without any conditions. | ???? | No information. | Depth points, contours (1m resolution) and underwater objects (wrecks, rocks, obstructions). Also survey areas and their metadata. Data from S-57 charts are already available for viewing from our Land Board Xgis site. | Directive Inspire does not spread over the RF, and nevertheless, data which may be used under frames of this item exists as ENCs in S-57 format. | Today I could not give you answer for this question. | No bathymetrical data will be provided freely, only metadata. Data can be delivered upon request but not freely, lower costs for research than for commercial use. |
| Do you have any specific needs regarding the distribution of the common bathymetrical dataset? | The common bathymetrical dataset could be provided via different portals, but the basic WMS/WFS services should be on responsible for each country | Yes, close communication to BKG (land survey) | No distribution available. | No. | To determine the specific needs and establish co-operation within community, HO of the Navy of the RF believes to know more about the principles of Inspire maritime component, including sample test data sets. | We should discuss this problem in our meeting in Helsinki. We need more details about it. | No |
| Do you have any preferences regarding the possibility to view or present the data in a portal for the common bathymetrical dataset? | Yes, presenting data in WMS (WMTS) would be the INSPIRE based solution | ???? | Question should be discussed in details additionally. | It is not clear yet how the common dataset will be completed. For us the best way is that the portal connects itself to our data delivery system (by WFS), downloads the data and uses as it needs. Maybe we should establish some kind of information flow which announces the common portal that some new data are available in certain areas (it works so in our in-house system and is very convenient). | | In our opinion common bathymetric data should be present in a portal as gridded data. | We believe that we need a viewer in the portal that makes it possible for the users to "design" their own charts and to download them as images. Selectable depth contours, depth figures, colors and so on. |
| Date answered | 2012-06-04 | 2012-06-04 | 2012-02-27 | 2012-05-17 | 2012-05-24 | 2012-05-30 | |