

DESCRIPTION OF NAUTICAL CHART MATERIAL

General

Nautical chart material are data in vector format, from which the Finnish Maritime Administration produces electronic and printed nautical charts. The data are maintained in the SDE data base.

Material sold in Shape format does not replace the printed nautical charts used for navigation. The Finnish Maritime Administration does not take any responsibility for any damage that may occur when using the material.

Coverage

The material covers the areas of the blue nautical charts (international symbology).

Coordinate system

The material is in the EUREF-FIN (WGS-84) coordinate system as geographical coordinates.

Scale

The scale is the same as for printed charts. The scale levels are General (1:250 000), Coastal (1:50 000) and Harbour (1:20 000).

Objects

The material has been classified into HIS object categories. It includes sounding data, navigation and other data.

Sounding data includes objects on the earth's surface (e.g. coastlines, depth contours, soundings, rocks, wrecks, obstacles to navigation, shore structures, general areas, depth areas, swept areas, spoil grounds, dredging areas).

Navigation data contains objects of significance for navigation (e.g. navigation lines, mark lines, aids to navigation, fairway zones, traffic separation zones, radio stations).

Other data contain other than navigation and sounding data (e.g. buildings, towns, roads and railways, borders etc.).

One shape file contains only objects similar in geometry. Since one shapefile can contain only features having either point, polyline or polygon shapes, one feature class is divided into one, two or three separate shapefiles, e.g. limit_point, limit_line and limit_polygon.

The data contents correspond to the ENC cell, with the exception of soundings and aids to navigation. The depth of soundings are recorded in the HIS system as z coordinates. The z value of soundings can be recorded as attribute data. The data on lights of the aids to navigation are separate components, which are not transferred to the shape file for aids to navigation.

The data on aids to navigation have been produced from the FMA register (VATU) and the fairway data are taken from the fairway register (VÄRE). Coastlines, roads, buildings, towers and masts etc. are updated based on the data base of the National Land Survey of Finland.

In addition to position data, the HIS system also contains attribute data of objects. The visual format of the objects is not transferred to the transmission files, since the description technique is created through a separate symbology library which is based on the attribute data of objects.

Topology

The shape files do not contain data on topology. When HIS system data are edited, care is taken keep the material integrated, and land and depth areas make up an extensive raster fill of the whole cell area.

Update interval

The material is updated in accordance with the production schedule for both ENC and printed charts. The data base may also contain data of different levels as regards accuracy and updated state.

Delivery format

The material is delivered as ESRI shape files, as geographical coordinates in EUREF-FIN coordinate system, unless agreed otherwise.

Other formats are made as extra work on an hourly basis.

See general rules, time charging prices for ordered work.