



High density contours in the Finnish ENCs

by the Finnish Hydrographic Office

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Enriched depth information in the Finnish ENCs

A new Nautical Chart Production System (AHTI) with an automatic depth contouring and (semi-) automatic sounding selection tools are in operative use at the Finnish HO.

The Rolling coin – method is used for depth contour processing.

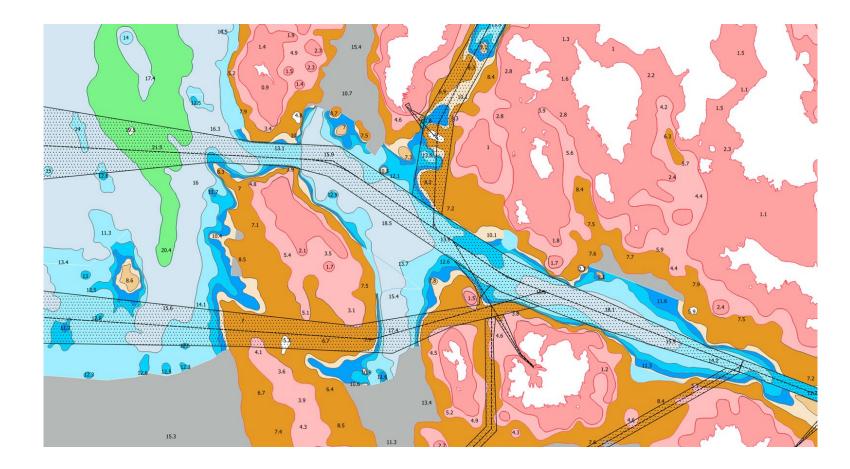
A high density contours will be applied for the major merchant fairways and ports in large scale ENCs i.e Berth, Harbour and Approach products.

As a common rule: A one meter interval DEPCONs and DEPAREs for range between 6 meter depth and depth > one meter over the safe clearance depth of the fairway in question.

The first set of ENCs including additional contour intervals and respective depth areas was published in January 2022 from the northern part of the Bay of Bothania.



High density depth contours and depth areas



Traditional contour (depth area) intervals on Finnish ENCs and Printed Charts

ahti:U3_DEPARE_A_0m-3m ahti:U3_DEPARE_A_3m-6m ahti:U3_DEPARE_A_6m-10m ahti:U3_DEPARE_A_10m-15m ahti:U3_DEPARE_A_15m-20m ahti:U3_DEPARE_A_20m-30m ahti:U3_DEPARE_A_30m-50m ahti:U3_DEPARE_A_50m-100m Etc ...



Additional contour (depth area) intervals on Finnish ENCs

ahti:U3_DEPARE_A_0m-3m ahti:U3_DEPARE_A_3m-6m ahti:U3_DEPARE_A_6m-10m ahti:U3_DEPARE_A_6m-10m ahti:U3_DEPARE_A_9m-10m ahti:U3_DEPARE_A_10m-11m ahti:U3_DEPARE_A_10m-11m ahti:U3_DEPARE_A_12m-13m ahti:U3_DEPARE_A_13m-15m ahti:U3_DEPARE_A_10m-15m ahti:U3_DEPARE_A_15m-20m ahti:U3_DEPARE_A_20m-30m ahti:U3_DEPARE_A_30m-50m Etc ...



High density contours from navigators perspective, case Port of Pietarsaari (Jakobstad)

Pietarsaar **Dietarcaar** Pietarsaa 057 deg Pietarsaa £ döskatab v ietarsaa Adö ale Ådö vlempi etarsaari 0 Gigiagoren Ådöfjärden Gräggör Gummar Gräggöre o_ 0.2 mpk (+) (-)Two-way route part (TWRTPT) Two-way route part (TWRTPT) Two-way route part (TWRTPT) CATGEO Area CATGEO Area CATGEO Area 12.8 m 12.3 m 12.3 m **ORIENT 106**° ORIENT 180° ORIENT 180° TRAFIC two-way(4) TRAFIC two-way(4) TRAFIC two-wav(4) INFORM Design draught 11 m INFORM Design draught 11 m INFORM Design draught 11 m SORDAT 20200219 SORDAT 20150625 SORDAT 20150625 SORIND FI, FI, rgstr, VÄRE Dnro VÄYLÄ/1071/06.02.02/2020 SORIND FI,FI,rgstr,VÄRE Dnro VÄYLÄ/1071/06.02.02/2020 SORIND FI,FI,rgstr,VÄRE Dnro VÄYLÄ/1071/06.02.02/2020 Dredged area (DRGARE) CATGEO Area Depth area (DEPARE) CATGEO Area Depth area (DEPARE) CATGEO Area 12.8 m 10 m - 15 m 10 m - 15 m SORDAT 2015

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Thank You

65th Nordic Hydrographic Conference