



National Report of Finland

Executive Summary

This Report highlights the main activities and achievements of the Finnish Hydrographic Office since ARHC 8th Conference in September 2018.

- Finnish Hydrographic Office has been a part the Finnish Transport and Communications Agency Traficom from 1.1.2019
- The focus of hydrographic surveys is moving towards shallow coastal nearshore areas.
- The production of new editions of nautical charts is limited due to the ongoing system development projects.
- Project for migration of bathymetric data to the new Bathymetric Data Management System (MERTA) is ongoing.
- Project for renewal of the Nautical Chart Production System (AHTI) is in the implementation phase. Deployment of the system will be in October.
- The implementation project "New vertical chart reference N2000" has started.

1 Hydrographic Office

The Finnish Transport and Communications Agency Traficom established on January 1, 2019.

Traficom is an authority in license, registration and approval matters. Traficom promote traffic safety and the smooth functioning of the transport system. Traficom also ensure that everyone in Finland has access to high quality and secure connections and services.

Agency for a changing world

- ▶ Climate change
- ▶ Digitalisation
- ▶ Technological development
- ▶ Smart cities and rural areas





The Finnish HO became part of the Agency. Staff in Finnish HO is about 50 including six consultants. Annual budget for hydrographic activities is about 10 million euros.

The FHO has been working according to the Quality Management System based on the new ISO 9001 (2015) standard.

2 Hydrographic Surveys

Hydrographic surveys have focused on shallow nearshore sea areas on the Gulf of Finland and in the Archipelago Sea as well as fairway surveys in the Bay of Bothnia.

Hydrographic LiDAR surveys have utilized to replace SBES surveys on a very shallow near shoreline waters.

2.1 Hydrographic data processing and management

The migration of bathymetric data to the Bathymetric Data Management System (MERTA) is in progress. The aim is that the progress of migration follows at least the schedule of the project of new vertical chart reference N2000 (BSCD 2000).

New automatic method for bathymetric data gridding and contouring is in production and will be included as a part of the new hydrographic data management system, AHTI.

External human resources have rent from private companies in order to ease the workload on data processing and validation tasks.

Several data sets of bathymetric data have provided for customers within the limits of Finnish national legislation.

3 New Charts and Updates

Not Applicable.

3.1 Chart data processing and management

ENC and Paper Chart Production System (AHTI) renewal project is currently in the deployment phase. Project schedule is delayed for ten months compared to the initial project plan. The unfinished project tasks are mostly related to the revision of the paper chart portrayal. The new system has been taking into partial use in May 2019 but the target for the full production date with the new system is in October 2019.

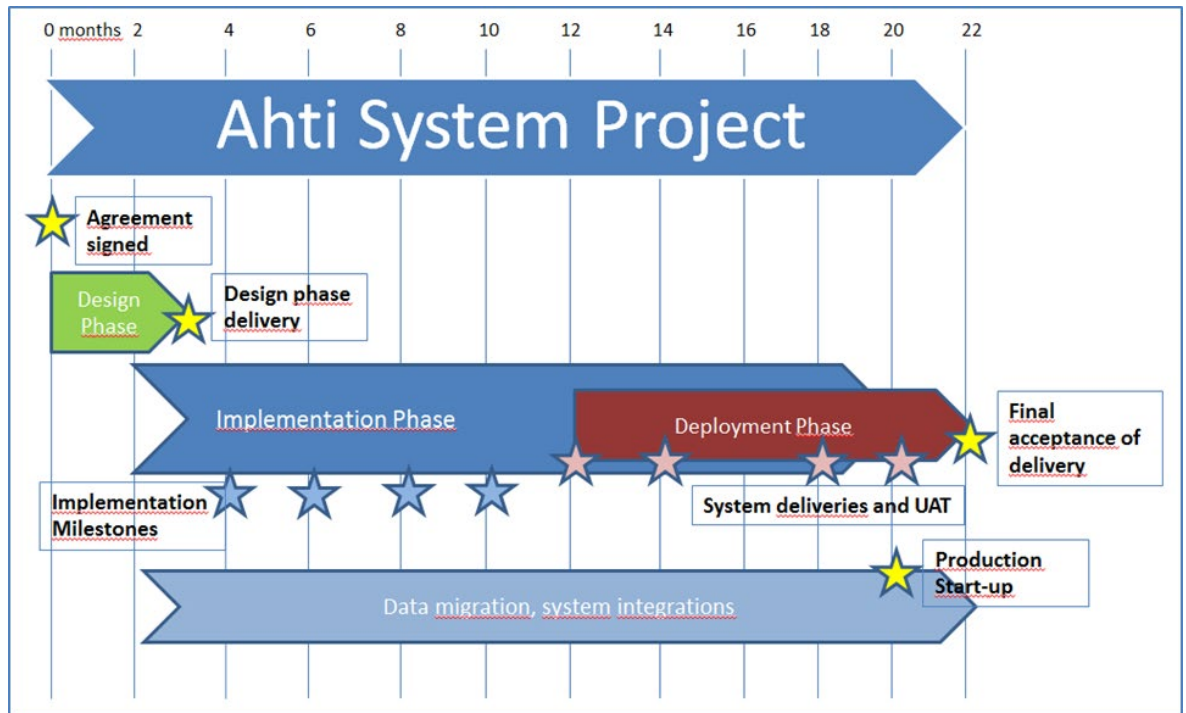


Fig.5. Implementation plan of AHTI-project

4 Nautical Publications

Not Applicable.

5 MSI

Finnish Transport and Communications Agency is responsible for safety radio communications in Finnish territorial waters and for distress radio communications in the deep channels of the Saimaa (inland waters) waterways system.

6 C-55

Not Applicable.

7 Capacity building

Nothing to report.



8 Oceanographic activities

The implementation project "New vertical chart reference N2000" (Baltic Sea Chart datum 2000) has launched with data conversation, planning and customer information. Implementation plan for changing Finnish nautical charts and related data to the new datum finalised in 2018. The BSCD 2000 will affect the nautical charts published on Finnish waters starting in 2020.

9 Other activities

Study to determine specifications and a portfolio for Bathymetric Surface products based on IHO/S-102 standard was finalised as a part of Intelligent Marine Fairway Project under "the Finland Transport Agency's DIGI 2016 - 2018 Program". Final report of the project is available for the meeting.

Finnish National Geodata Portal

The non-navigational use of hydrographic data has increased exceedingly. A view service is in use via the interface of the National Geodata Portal. The FHO is actively supporting hydrographic data to the portal. Inspire specific national spatial data sets have also published.

National Geodata Portal "Paikkatietoikkuna":
<http://www.paikkatietoikkuna.fi/?lang=en>

Open data view and download services

For viewing and downloading datasets FHO provides:

- Web Map Service
- Web Feature Service
- Tiled map service (WMTS) for viewing FHO nautical chart data in raster format

The data available from these services are not suitable for navigation and does not meet the requirements for an official nautical chart.

Links:

View and Download Service:
<https://julkinen.vayla.fi/oskari/?lang=en>

International Co-operation

FHO has bilateral Arrangements with Estonia, Sweden, Norway, Germany and UKHO (including adoptions of printed charts).

Finland is participating to the following IHO Committees, Commissions and working groups: HSSC, HSSC/ENCWG, HSSHC/S-100 WG, HSSC/DQWG, HSSC/NCWG (Chair), HSSC/NIPWG, HSSC/TMCWG, HSSC/S-101PT, HSSC/UKCMPT, IRCC/WEND-WG (representing BSHC), IRCC/MSDIWG, BSHC, BSHC/BSICCWG (Chair), BSHC/BSDIWG, BSHC/CDWG, BSHC/BS-NSMSDIWG,



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BSHC-HELCOM/MWG (Chair), NHC, NHC/NCPEG, NHC/NSEG and ARHC (Associate Member), ARHC/OTWG, ARHC/ARMSDIWG

Finland is member of the PRIMAR and actively take part of work of the PRIMAR WGs.