

**Arctic Regional Hydrographic Commission (ARHC)
Longyearbyen, Svalbard, Norway 11-13 September 2018**

Report of the Arctic International Charting Coordination Working Group (AICCWG)

Submitted by: Edward Hands, Chair of AICCWG, Norway.

Executive summary: This paper reports on the efforts of the AICCWG during 2017-18.

Related documents:
- ARCH8-C2b Progress on the Resolution of Overlapping ENC Coverage in the Bering and Chukchi Seas – Submitted by United States (NOAA)

Related projects: None

Introduction/Background

The AICCWG was established at the ARHC meeting in Tromsø, Norway, October 2012. Norway accepted to chair the working group. Mr Edward Hands of The Norwegian Hydrographic Service has acted as Chairman of AICCWG since May 2017.

The working group is fully manned.

The current membership of the AICCWG is:

- Norway: Edward Hands Edward.hands@kartverket.no
- Canada: Laura Colombe Laura.Colombe@dfo-mpo.qv.ca
- Denmark: Anne Mette Klansø aklan@gst.dk
- United States: Drusilla Morgan (NGA) Drusilla.A.Morgan@nga.mil
Colby Harmon (NOAA) colby.harmon@noaa.gov
- Russian Federation: Sergey Egorov esv12@ramler.ru

There have been no physical meetings of the members for several years as all matters have been dealt with through correspondence. The chairman has performed the role of coordinator.

Updated Terms of Reference (ToR) for AICCWG

The ToR for the group were originally drafted in 2012 and made reference to several groups and terms that have since been superseded or amended. The ToR for AICCWG were subsequently updated and although the changes were minor, a copy was distributed to all members for review and comment. No changes were proposed and the updated ToR were published February 2018.

INT Chart Status

The INT chart portfolio for Region N now consists of nine charts, all of which are Norwegian. One new INT Chart was recently approved and published. INT 9314 (NO 311) at scale 1:350,000 extends coverage along the Norwegian Coast into Region N. The chart had been planned for a long time and was finally published in October 2017.

A further three charts affecting the medium scale INT coverage along the northern coast of Norway at 1:350,000 are planned, INT 9315 9316 and 9317.

It is acknowledged that there are differing opinions pertaining to the production and publishing of INT charts in the different countries in the region. It should however be remembered that the TORs of the working group do reference the coordination of both INT charts and ENC's. ARHC members are therefore invited to revisit and give consideration to whether or not it is desirable to increase INT chart coverage in the region or if focussing solely on ENC scheming is more desirable.

ENC Status

UB1: Six ENCs in usage band 1 (overview). No new ENCs are planned.

UB2: 83 ENCs in usage band 2 (general). Two new ENCs, US2ARCDG and US2ARCHD, published by The United States.

UB3: 159 ENCs in usage band 3 (coastal). Two new ENCs NO3C4436 and NO3C4236 published by Norway. In addition, the coverage of NO3D4636 has been extended. This reflects the publication of a new sailing route based on multiband survey data through Storfjorden in Svalbard.

UB4: 345 ENCs in usage band 4 (approach). Six new ENCs published by The Russian federation

- RU4P7PA0
- RU4P6PA0
- RU4P6P90
- RU4P5P70
- RU4P1P90
- RU4OQP90

In addition, the coverage has been amended for two ENCs, RU4P1P70 and RU4POQP70 and one ENC has been deleted RU4P5P90.

UB5: 135 ENC's in usage band 5 (harbour). Two new ENC's published by Norway, NO5H2939 and NO5G2940.

One new ENC published by the Russian Federation, RU5OSL80.

UB6: 23 ENC's in usage band 6 (berthing). No new ENC's planned

ENC proposals:

Canada propose the production of a new UB3 ENC for chart 7770: Spence Bay and Approaches – Due for publication 2018.

Norway have plans to produce a new UB3 ENC for chart 537 although a proposed completion date is not available.

NOAA is planning to rescheme the entire ENC scheme for the United States, however work is still in the planning phase. Eventually all ENC's will conform to a regular grid. There is no set schedule yet confirmed for when this will occur.

ENC Coverage Issues

Following the recommendations of the WENDWG the IC-ENC overlap report, identifying navigationally significant overlaps in ENC coverage was disseminated to all members for consideration.

Significant progress made in eliminating gaps and overlaps in ENC coverage. Most notably the collaborative efforts between The United States and the Russian Federation, full details of which are contained in the separate report submitted by NOAA.

Norway is currently working in collaboration with both Denmark and Germany in order to eliminate the coverage issues between Norwegian ENC NO1A3000. Newly adjusted cells are planned and work to eliminate the overlaps between these ENC's is expected to be completed by the end of 2018.

Overall, work has been completed or is currently ongoing to address all but two of the overlapping issues.

Future work of AICCWG

- Continue to monitor ENC coverage in Arctic.
- Finalise work to eliminate gaps and overlaps in ENC coverage.
- Explore possibilities of using AIS and CATZOC data for ENC Scheming.
- Test INToGIS development phase II tools and report back.
- Provision of backup requirements for paper chart in accordance with action item ARHC7-21.

Action required of ARHC

The ARHC is invited to:

1. Note the report
2. Review the Report submitted by NOAA on the resolution of overlapping ENC coverage.
3. Consider desirability of increasing INT chart coverage.