

## 5<sup>th</sup> Meeting of the Nautical Cartography Working Group (NCWG) and 2<sup>nd</sup> Workshop for Regional INT Chart/ENC Coordinators

Stockholm, Sweden, 4 – 9 November 2019

Contribution to the IHO Work Programme 2019	
Task 2.1.2.4	Organize, prepare and report meetings of NCWG

Hosted by the Hydrographic Office of the Swedish Maritime Administration, the 5<sup>th</sup> meeting of the Nautical Cartography Working Group (NCWG-5) took place in Stockholm, Sweden, from 5 to 8 November. The meeting was chaired by Mr Mikko Hovi (Finland), supported by Mr James Timmins, Secretary (United Kingdom). Thirty-four delegates from 21 Member States (Australia, Brazil, Canada, Denmark, Estonia, Finland, France, Germany, India, Indonesia, Italy, Japan, Latvia Netherlands, Norway, Republic of Korea, Romania, Spain, Sweden, United Kingdom and USA), two Expert Contributors (Esri, Teledyne-Caris), Dr Lysandros Tsoulos, representing the FIG/IHO/ICA International Board of Competence for Nautical Cartographers and the ICA Commission on Marine Cartography participated in the meeting. The IHO Secretariat was represented by Assistant Director Yves Guillam, who also facilitated a workshop for Regional INT Chart/ENC Coordinators on 4 November, preceding the NCWG-5 meeting.

Mr Magnus Wallhagen (Sweden) welcomed the participants on behalf of Mr Patrik Wiberg, Director of the Swedish Hydrographic Office. In his opening address, he highlighted the challenges the Swedish Hydrographic Office's cartographers face every day due to the Sweden archipelago environment. In his position as Vice-Chair of the HSSC, he also stressed the most important issues raised by the HSSC and the Council, which included the requirement for the NCWG to develop at this meeting, as a matter of priority, the recommendations on the Future of the Paper Chart. He emphasized in particular the issues faced by Hydrographic Offices for the allocation of resources in the sustainable maintenance and production of traditional charts (paper and ENCs) and the investments needed for preparing the future with S-100 based products.

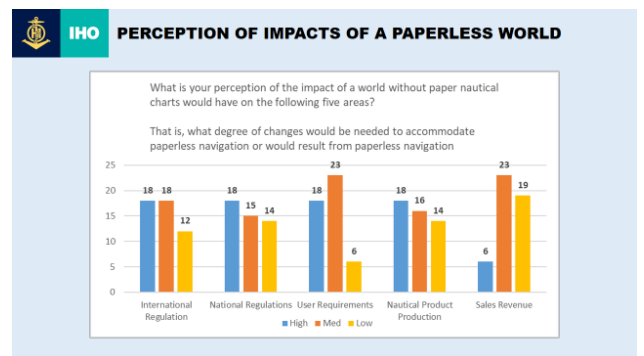
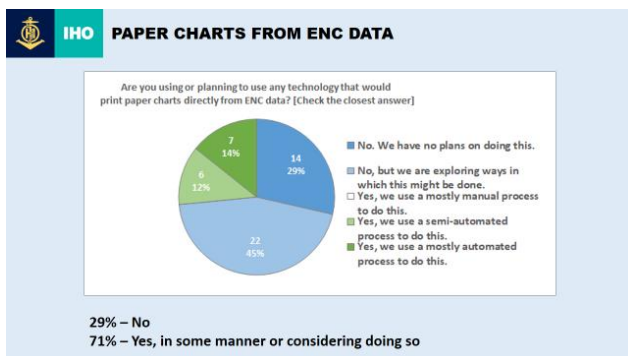
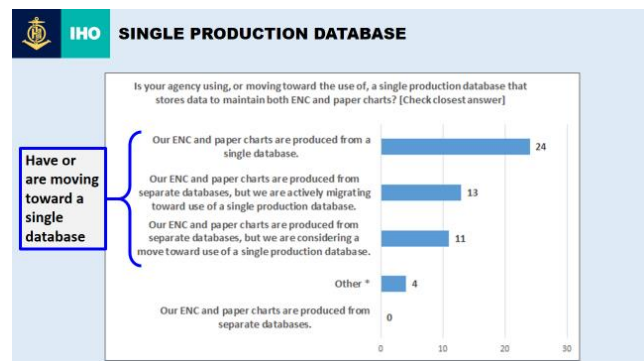
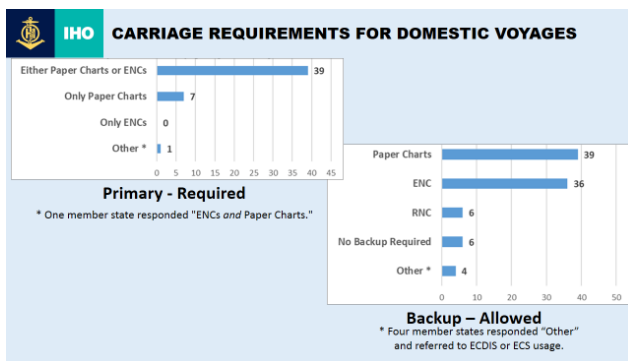


*NCWG-5 participants*

Following a proposal from India made in support of the IHO Resolution 1/2005 as amended – *IHO response to disasters* – the working group noted that amendments to this very Resolution were

currently submitted for approval at the next Session of the Assembly and was of the opinion that the provision of emergency contact details was likely more appropriate in Nautical Publications than printed on or included in nautical charts. On a proposal from Australia justifying the need for a new type of chart designed with the main purpose of serving as back-up to electronic navigation that can be easily produced from officially (and richer) published ENC data, the working group noted that “two” standards would certainly create some confusion to the mariners. It was also agreed that the associated proposed Australian amendment to the IMO definition of what constitutes a back-up paper chart was not helpful on the matter. The US representative presented the outcome of their experimentation on the automated production of paper charts from an ENC chart database, supported by Esri who stressed the current limitation factors in the IHO standards for automation.

The Chair (US) of the Sub-Working Group on the Future of the Nautical Paper Chart (FNPC) provided a summary report of the outcome of the survey on the Future of Nautical Paper Charts to which 52 Member States responded.



### FNPC Survey Excerpt

Discussions on the outcome of this survey led to the preparation of three draft challenging and composite recommendations that will be finalized together with the report on the FNPC for submission to HSSC. It was noted that due to the deadline for submission to HSSC (mid-March 2020), the report will be available prior to the 2<sup>nd</sup> Session of the Assembly. As a consequence and by anticipation, the NCWG also drafted some amendments to its Terms of Reference in order to propose a better alignment of its activities with the IHO Work Programme and priorities, such as the S-100 Implementation Decade.

The working group noted the concept for the visualization of the quality of bathymetric data for safe navigation presented on behalf of the Chair of the DQWG, which was questioned mainly due to portrayal issues illustrated by some “counter-examples” provided by Finland. In response to an action from HSSC-11, the meeting welcomed the offer made by the UK to take over the role of custodian for the maintenance of INT-1 – *Symbols, Abbreviations and Terms used on Charts*. This topic was

complemented by several suggestions from industry and representatives of the ROK in favour of the development of a \*.svg IHO library of symbols to be made available in the IHO Geospatial Registry.

Following the workshop for Regional INT Chart/ENC Coordinators, that included some brainstorming about the future role of Regional Chart Coordinators, it was generally agreed that the INT Charts schemes are not a priority anymore. The IHO Secretariat provided an update on the preparation of the commissioning and timelines of the INTToGIS II<sup>1</sup> web services (S-11 Part B, web catalogue of ENCs and INT charts, new layers in the Manager mode such as AIS data, CATZOC, Ports database, enhanced user interface, layers with different patterns and transparency cursors...).

At the end of the meeting, the working group welcomed the offer made by Spain to host the 6<sup>th</sup> meeting of the NCWG in Cádiz in November 2020.

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<sup>1</sup> A project that is supported by KHOA.