Hydrographic Services and Standards Committee

Preliminary Report Future of the Paper Nautical Chart

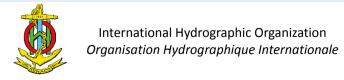
Mikko Hovi, Chair NCWG

Background

- First idea originates at CPSCWG9 in 2012
 - Discussion about the relevance of INT chart concept expanded to the future of paper charts in general
- HSSC approved work item since 2014
 - Future of the paper chart when users transition from paper charts to ENCs
- This preliminary report has been compiled by NCWG's Future of the Paper Chart Sub Working Group

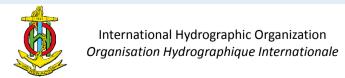
The Challenge

- The sales of paper nautical charts is declining
- The sales of ENCs is increasing
- Benefit-cost ratio of the raster charts is getting too low to produce
- Demand for paper charts still exists
- Each HO is affected differently



Possible solutions (examples)

Optimize portfolio	Optimize content	Optimize portrayal	Optimize production
Reduce the number of charts available.	Reduce number of features in each chart.	Reduce manual cartographic editing.	Reduce duplicated work and parallel workflows.
May be done through reduced geographical coverage or reduced scales produced.	May be done through reduced level of detail or number of feature classes.	May be done with rule based cartograpghy. Extreme case: Chart creation if fully	May be done through single source chart production database or similar solution.
Extreme case: Stop producing paper charts.	Extreme case: Reduce content to the minimum level still acceptable to IMO.	automated with no human interaction needed.	

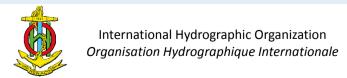


Survey

- Considering the limited number of MS participating in writing report and the diversity in their specific issues no clear common ground exist
- For a wider view within the IHO a survey to MS has been drafted
- The survey would be sent out as CL together with the Preliminary Report

Way ahead

10-23 May 2019	HSSC comments on preliminary report and survey to NCWG		
10-27 May 2019	NCWG incorporates HSSC comments into FPNC preliminary report and survey and forwards them to IHO Secretariat		
By 10 June 2019	IHO Secretariat sends circular letter to IHO Member States		
31 August 2019	Deadline for receipt of MS FPNC survey responses		
1-30 Sep 2019	NCWG analysis of MS survey results		
1-31 Oct 2019	NCWG edits Final FPNC Report via correspondance		
5-8 Nov 2019	Complete Final FPNC Report & recommendations at NCWG-5		
11-14 May 2020	NCWG presents Final FPNC Report at HSSC-12		



Action requested of HSSC

- HSSC is invited to
 - Note this preliminary report, and provide any comments it sees appropriate by 23 May 2019
 - Note the draft survey, and provide any comments it sees appropriate by 23 May 2019
 - **Endorse** the way forward for finalizing the report