



## Transformation numérique au SHC Digital Transformation at CHS

Paper charts automatically derived from ENCs...  
update

February 2024, S-101PT12 VTC  
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# Paper Chart: the new generation...



REDUCE



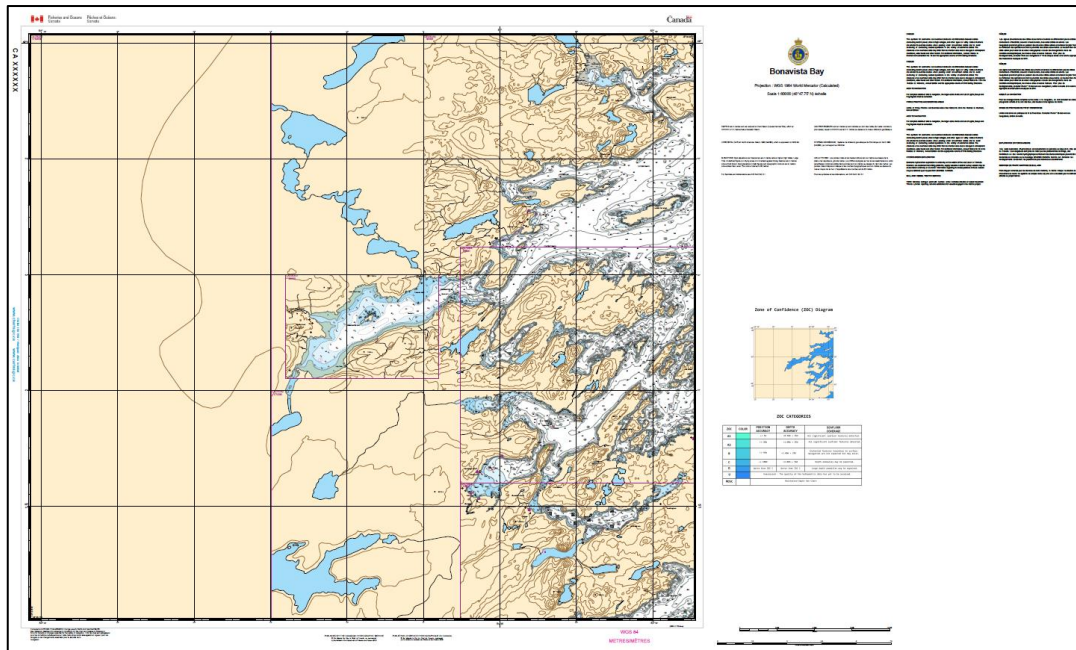
REUSE



RECYCLE

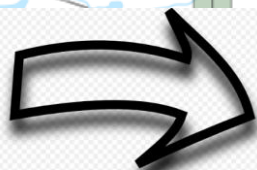


RECOVER

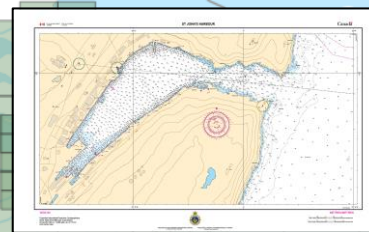
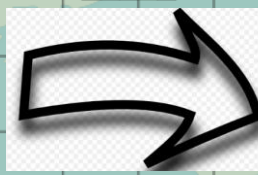


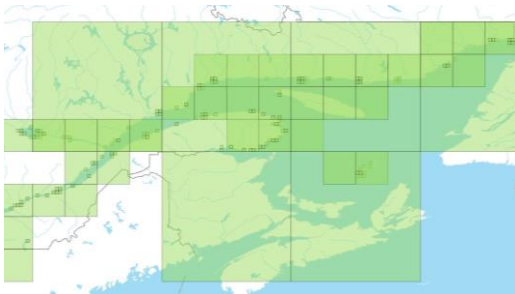
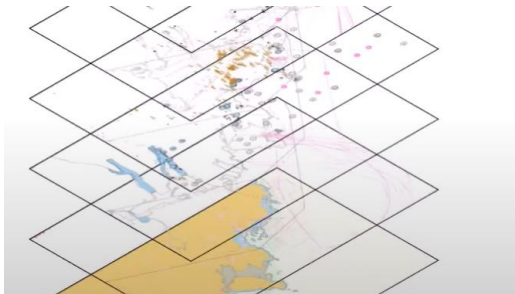


# Summary of objectives



**esri**








**internationales (INT)  
et  
specifications de l'OHI  
pour les cartes marines**

Edition 4.9.0 – mars 2021

*(Date de publication: octobre 2021)*

# Meeting international standards...

# Analysis of results...

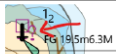
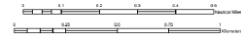




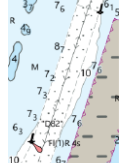
MAJOR	
Foul ground not S-4 representation	
Submerged dangers not labelled	
Unrecognized features	
Source info/diagram missing	





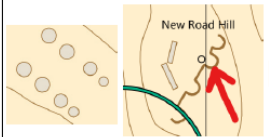
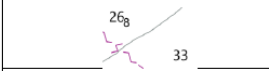



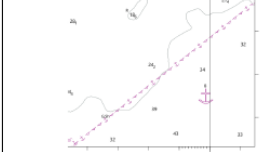
Automated Paper Chart Output Review  
Against IHO S-4

Major  
items

# Medium items

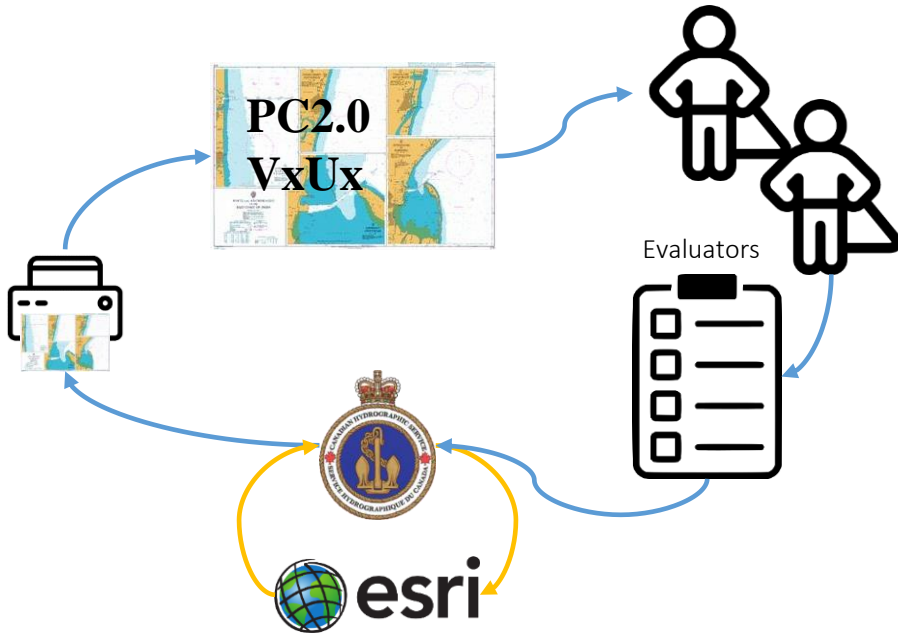
MEDIUM	
Symbols not mapped (ie. ?)	
Linear scales not INT2	
Bridge clearance and symbolization not matching S-4	
Rocky foreshore not S-4	
Numerous features overlapping	
Power lines missing vertical safe clearance symbol and transmission type	
Dredged areas not labelled and incorrectly represented	

# Minor items

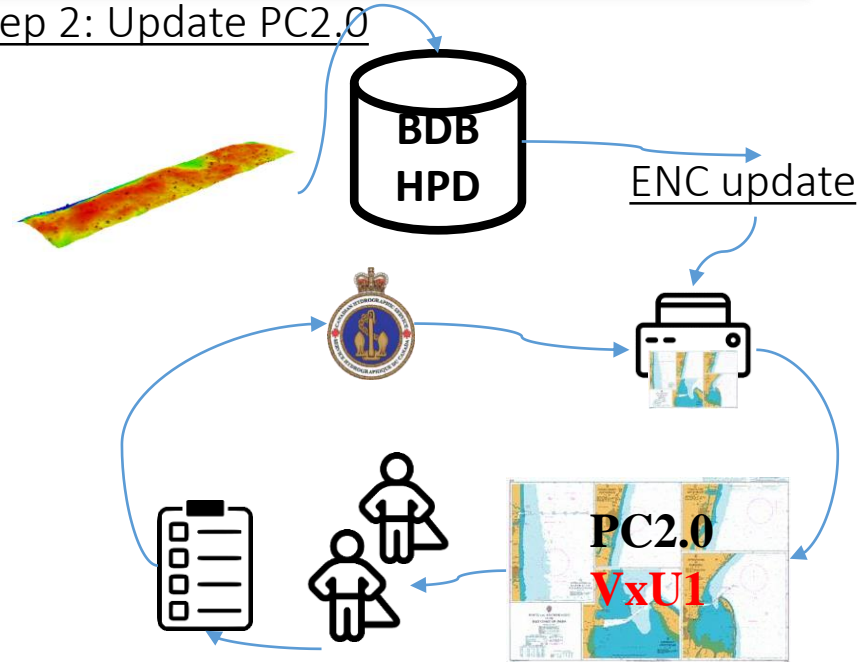
MINOR	
Scale not including space and latitude not properly formatted	<p>Projection Information            WGS 1984 World Mercator (Calculated)  <del>SCALE 1:40000 at Lat. 46°34.01'</del>            GCS WGS 1984</p>
Line weights the same between features	
Upright vs italic text for land and water features	
Tanks, fortified structure and domes not matching S-4	
Small tank symbols not represented with hatched fill	
Soundings not sloped with unique font	
Mixed BQs represented with a comma rather than period	
Text for lights on buoys includes all information	
Anchorage and cable areas not S-4	

# Approach: Iteration loop for PC2.0 evaluation

## Step 1: Acceptance of PC2.0

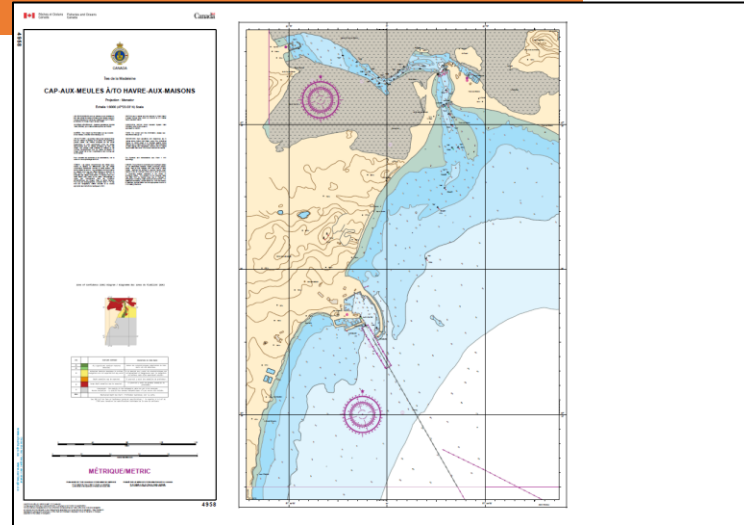
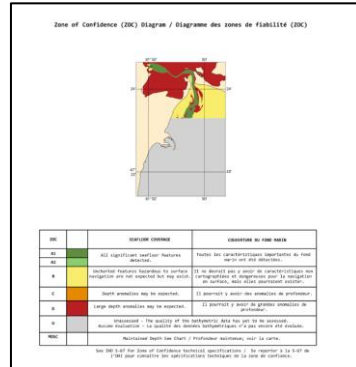
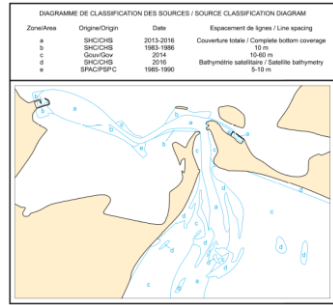


## Step 2: Update PC2.0





# Where are we now?

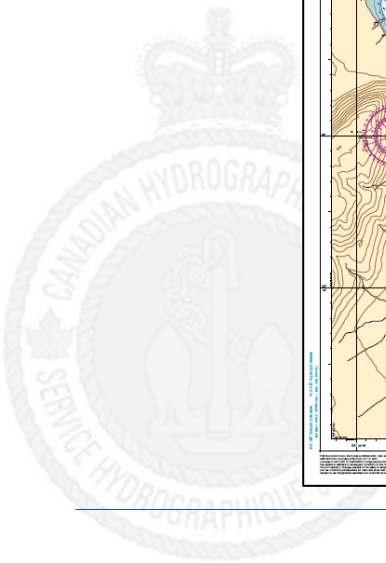
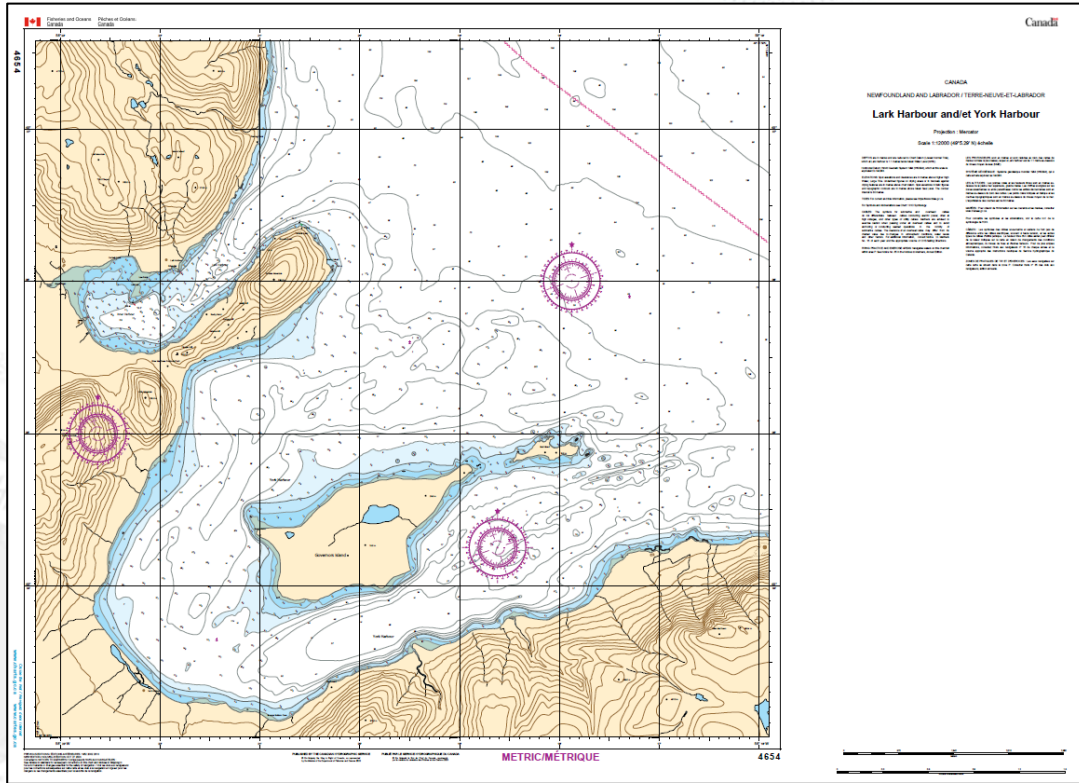


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# First official release...



# What's next?

- Improve charts templates
- Support NCWG's unified symbology initiative
- Develop a graphical NTM to avoid traditional written NTMs for updates.
- Support international NTM standard developments
- Development of a Subscription Service.





Questions?

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