



Canadian position regarding CHRIS 10-06.1C – Recommendations for Consistent ENC Data Encoding

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Background

- Pilot Project to compare current CHS SCAMIN with IC-ENC SCAMIN recommendations.
- Method
 - Internal analysis
 - Input from Mariners
 - Impact Assessment





Internal CHS Analysis

- The IHO recommendations
 - adversely increase screen clutter.
 - SCAMIN applied to navigational aids may pose a risk to safety of navigation.
- CHS ENC portfolio is currently consistent in the application of SCAMIN in all Canadian waters.





Mariner's Input Meeting 26-05-08

- The focus group consisted of the following mariners:
 - St. Lawrence Seaway Pilots
 - Great Lakes Captain
 - Canadian Coast Guard
 - Sea-going Vessel Captain





Mariner's Preference

- The mariners interviewed overwhelmingly supported the CHS implementation of SCAMIN over the IHO recommendations.
 - increase in the screen clutter at small scales.
 - Mariners felt that the increase screen clutter, especially an over abundance of redundant soundings at small scales, made for a confusing picture and was deemed unnecessary at those scales.
 - At these small scales, mariners felt that for route planning purposes the use of colour to represent depths was more than sufficient.
- ENC's at larger scales, the mariners see little to no difference in the application of SCAMIN on either product.





Impact Analysis

- 500 ENCs.
- 25% of these are currently being produced in the HPD production environment.
- Goal - remaining ENCs migrated to the HPD within 2 years.
- 4 years would be needed to completely re-scheme the Canadian ENC portfolio according to IHO recommendations.

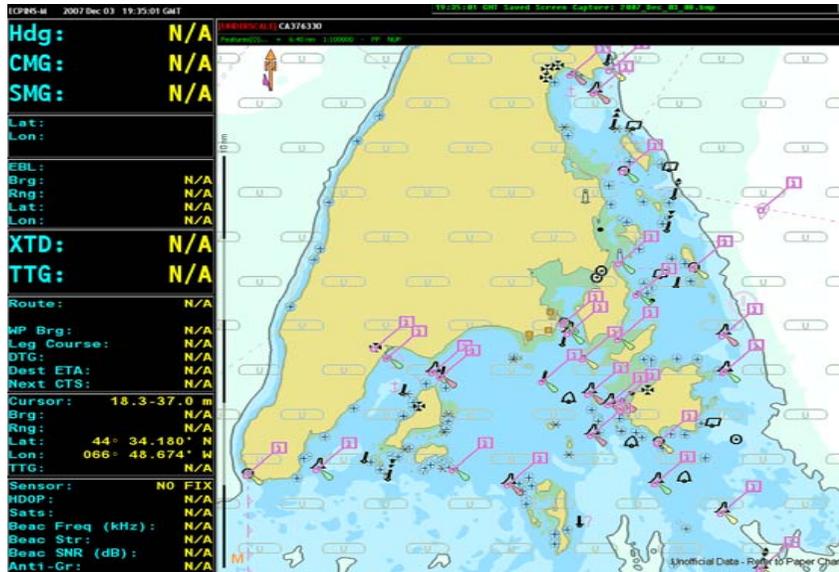




Side by side screenshot comparisons between CHS SCAMIN and IC-ENC New SCAMIN at various scales

CHS SCAMIN CA376330
View @1:100,000

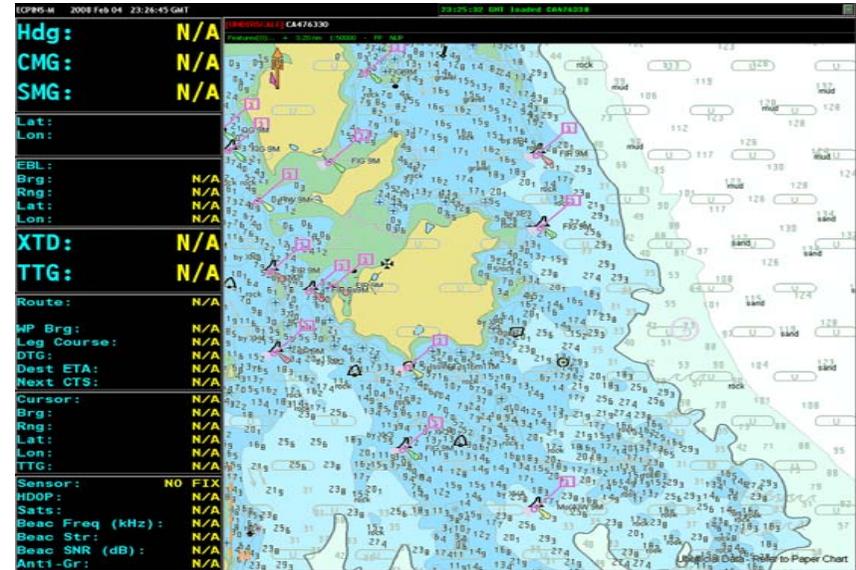
IC-ENC SCAMIN CA476330 (orig
CA376330) View @1:100,000





CHS SCAMIN CA376330 View @1:50,000

IC-ENC SCAMIN CA476330 (original CA376330) View @1:50,000





CHS SCAMIN CA376330 View @1:30,000

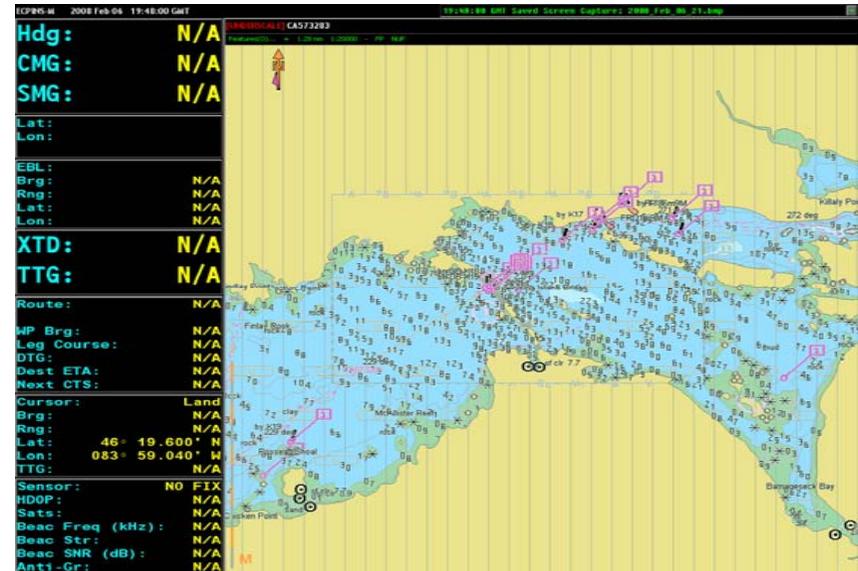
IC-ENC SCAMIN CA476330 (original CA376330) View @1:30,000





CHS SCAMIN CA473285 Inset View @1:20,000

IC-ENC SCAMIN CA573283 (Original CA473285 Inset) View @1:20,000





CHS SCAMIN CA473285 Inset View @1:10,000

IC-ENC SCAMIN CA573283 (Original CA473285 Inset) View @1:10,000





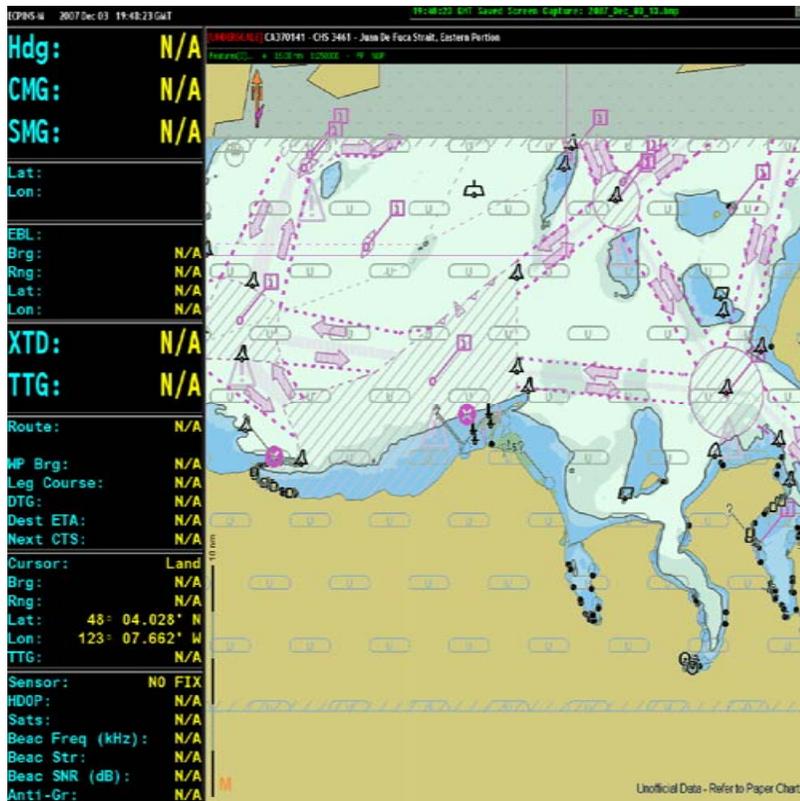
CHS SCAMIN CA473285 Inset View @1:5000

IC-ENC SCAMIN CA573283 (Original CA473285 Inset) View @1:5000

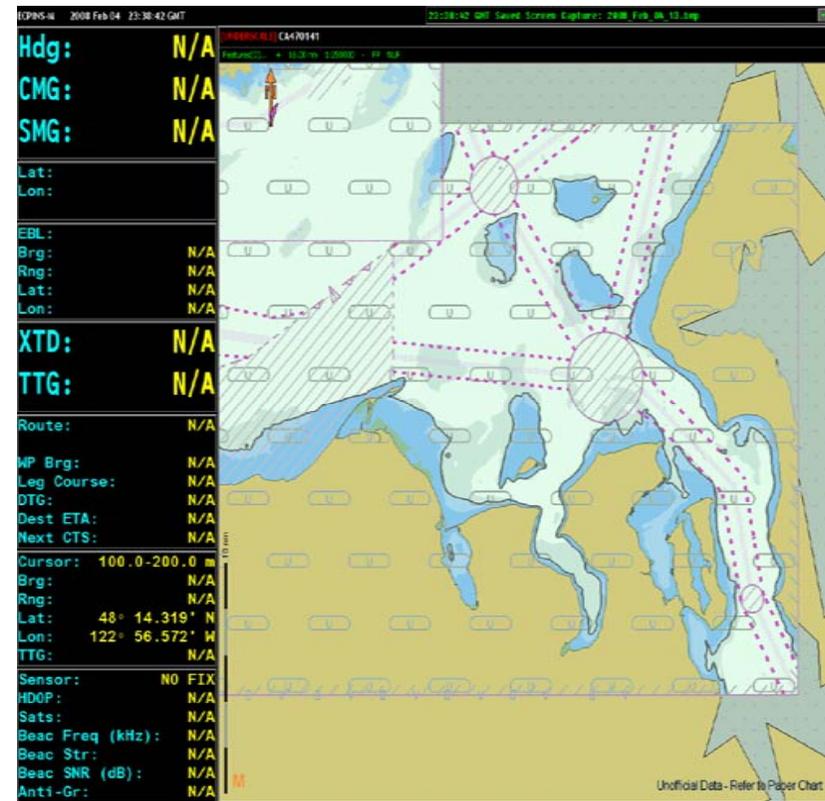




CHS SCAMIN CA370141 View @1:250,000



IC-ENC SCAMIN CA470141 (original CA370141) View @1:250,000





Canadian Position

- The Canadian Hydrographic Service (CHS), in consultation with mariners and Canadian regional experts, believes that the IHO/IC-ENC recommendations for the application of SCAMIN on ENCs does not improve Canadian ENCs, and may adversely affect the usability of CHS products.
- Therefore, CHS will not implement the IC-ENC recommendations.





Canadian Position

- Canada agrees that ENCs should strive to be consistent across portfolios and international boundaries.
- Canada views the IC-ENC recommendations as a valuable first step in achieving such consistency, especially for HOs that have yet to implement a SCAMIN solution.
- However, the Canadian ENC portfolio is consistent in SCAMIN implementation and the CHS use of SCAMIN **goes beyond the minimum recommended** values as set in CHRIS 19-06.1C and IC-ENC.
- Canada believes its current (and long serving) coding practices are in line with the spirit of the IC-ENC recommendations.

