

HGPSC Update

USCHC44

Co-chairs: Louis Maltais (CHS) & Christie Ence (NOAA)

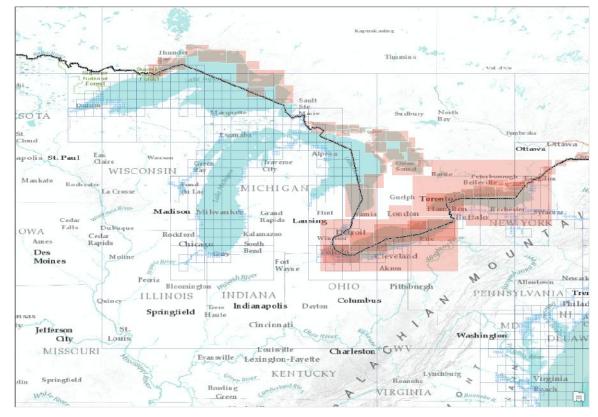


TRANSBOUNDARY LIMIT GIS TOOL

Agenda Item 7: Establish a plan to manage paper products in transboundary areas both during the transition period and the desired endstates. Elements to consider a shared [ENC] database from which paper charts can be generated by either HO or their agents. Begin in the Great Lakes/St. Lawrence and expand this methodology to the East coast.

International Hydrographic Organization

- Web application on NOAA GeoPortal (public)
- Extents:
 - Current/Future NOAA Reschemed ENC Cells
 - Current CHS ENC Cells
- Color Classifications:
 - Canada, Split M_COVR at Boundary
- Canada, Single Agency
- US, Split M_COVR at Boundary
- US, Single Agency



https://noaa.maps.arcgis.com/apps/webappviewer/index.html?id=3d56cca277334bb18d918e4292bd3313

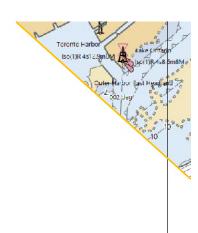


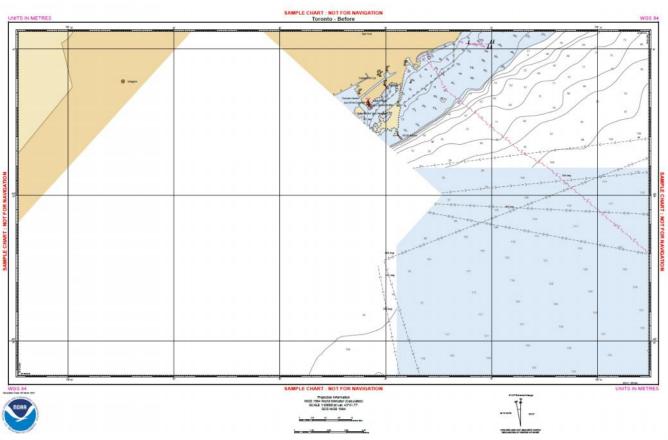
Agenda Item 7: HGSPC to evaluate options in order to provide single seamless ENC service to clients. and report to USCHC44. Elements to consider include a joint distribution agreement and licensing requirements



• Combine

- **US4NY26M** (Western Lake Ontario)
- CA473519 (Toronto to Hamilton





NOAA Custom Chart Prototype – Before

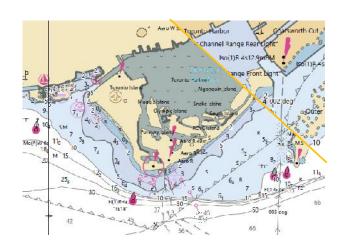


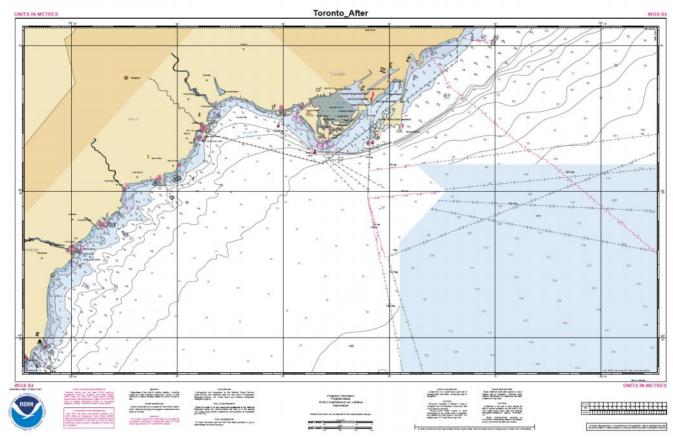
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NOAA Custom Chart v1.0 - After

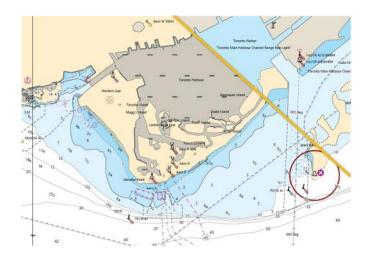


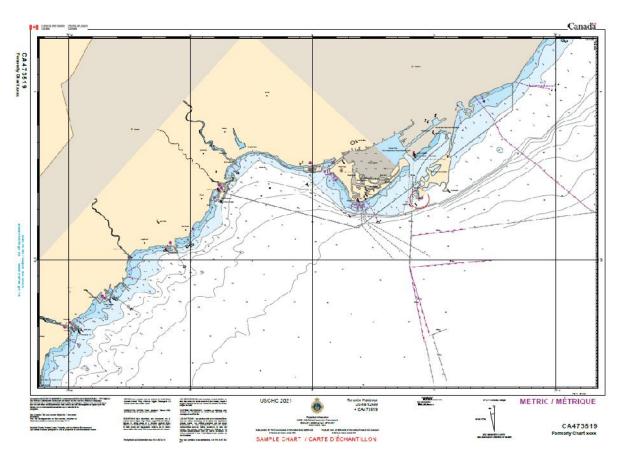
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CHS Paper Chart 2.0 – After



SEAWAY INCIDENT, WHO IS DOING WHAT.



- Great Lakes Navigation Manager LCDR Charles Wisotzkey (NOAA) organized a monthly meeting to foster communications between the Canadian and US production groups.
- Participants include representatives from:
 - Canadian Hydrographic Service (CHS) Central
 - Office of Coast Survey Marine Chart Division, Pacific and Great Lakes
 - HGPSC
- Discussions included:
 - Charting practices on NOAA charts in Canadian Waters (Detroit River)
 - NAVWARN application
 - International Great Lakes Datum 2025
 - Planned NOAA Hydrographic Surveys approaching Canadian waters
 - Sharing Canadian data in St. Lawrence River/Seaway



Tug boats assist the freighter Harvest Spirit, grounded in what is known as I fole-in-the-Wall in the Livingstone Channel of the Datroit River between Grosse life, Mich., and Roo-In Island, Canada, Thursday, Dec. 3, 2020, Jean, Mayroot



RASTER PRODUCT AND S-61 RETIREMENT

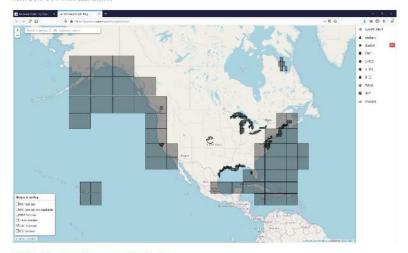
- Hydrographic Organization
- CHS to cancel 142 raster products (total in Canada: 813)
 - ENC exist in the area, but at very small scale
 - Maintain two product lines in the medium term
 - GPS navigation = ENC
 - Non GPS Navigation = non Georeferenced PDF (Digital or printed, same file)
 - Information Paper to decommission S-61 Standard...
- NOAA to cancel 1007 raster products (the entire suite) by January 2025
 - Reduced maintenance on raster products (critical corrections only)
 - Reschemed, gridded ENC coverage often at a larger scale is replacing current ENC coverage
 - Correspondence of scale and extend between ENC and RNC products is diminishing as rescheming proceeds

https://nauticalcharts.noaa.gov/charts/farewell-to-traditional-nautical-charts.html



International Hydrographic Organization

NOAA S-111 test datasets:



NOAA datasets not based on a fixed grid.

S-111 Dataset Names:

NOAA:

Starts with product type and country code and then information about the forecast modelling system. It also looks like "dataset names" include date/time stamps.

(Example; Northeast Gulf of Mexico Operational Forecast System (NEGOFS))

 111USA1_NEGOFS_20210306T157_US4MS1CF
 30.3025856
 -89.0974121
 30.597414

 88.8025894
 402.5 kB
 5 111
 111USA1_NEGOFS_20210306T15Z_US4MS1CF
 30.3025856
 -88.7974167
 30.597414

 88.5025864
 346.9 kB
 5-111
 5-111
 50.0051708
 88.4948273
 30.2948284

 88.2051697
 408.3 kB
 5 111

5-111 Dataset Sizes:

We did a search of all available S-111 datasets and found the maximum and minimum sizes:

5

NOAA:

CHS:

Maximum size: 1.39 MB

Minimum size: 87.7 KB

Maximum size: 308 KB Minimum size: 98.5 KB

CHS S-111 datasets in PRIMAR Chart Catalogue:



CHS datasets based on a fixed grid.

CHS:

Starts with product type and country code and location of data.

111CA0024100N04400W	41	-44	42	-43	303.0 kB	S-111
111CA0024100N04500W	11	-15	12	-11	303.5 kB	S-111
111CA0024100N04600W	41	-46	42	-4')	303.5 kB	5-111



International Hydrographic Organization

- S-100 seamless services
- Moving to the grid
- S-100 unified symbology