

13th Meeting of the WENDWG



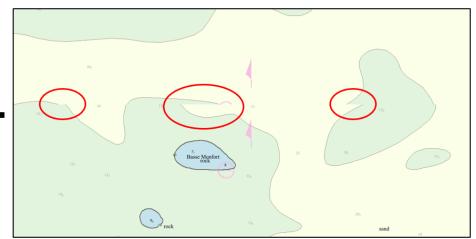
Agenda Item 07.1Ad



INTRODUCTION/BACKGROUND



IMPACT OF MULTIPLE-SCALE CONTENT



- Cartographic discontinuities exist between ENCs
- within the same usage band: inconsistent compilation scales and different charting methods
- of two different usage bands
- within the Shom ENC scheme and between the Shom ENCs and the ENCs of other HOs
- Consequences:
- difficulties in using the nautical charted information by mariners and other users
- risk of navigation error when displayed on an ECDIS



A DATA-CENTRIC APPROACH TO BUILD THE UNIFIED

CARTOGRAPHIC SOURCE

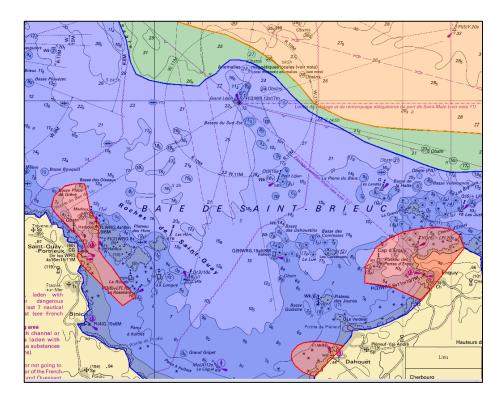
International Hydrographic Organization

A single cartographic content per area

In one area, the scale will be adopted taking into account:

- Known hazards and bathymetry
- Navigation practice and density
- Economic activities (harbour, wind farm, etc.)

Result will be the **Unified Cartographic Source (FCU)** as the assemblage of the areas of different scales



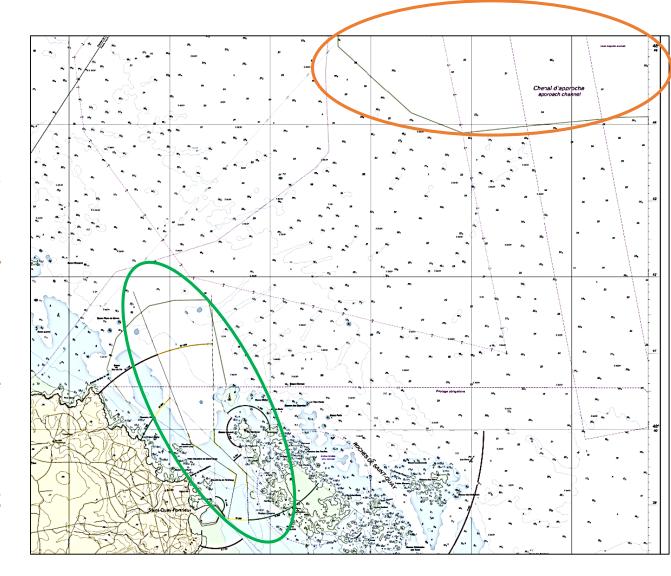


CHARTS AND ENCS FROM THE UNIFIED CARTOGRAPHIC SOURCE

International Hydrographic Organization

Each chart (ENC/paper) will be the view/extraction from the FCU

- Where the chart scale is the same or higher than the FCU in an area, the content will be the FCU
- Where the chart scale is smaller than the FCU, the content will be a minimal cartographic representation
- There is no intention to change the current FR ENC and Paper Chart schemes





UNIFIED CARTOGRAPHIC SOURCE BENEFITS

International Hydrographic Organization

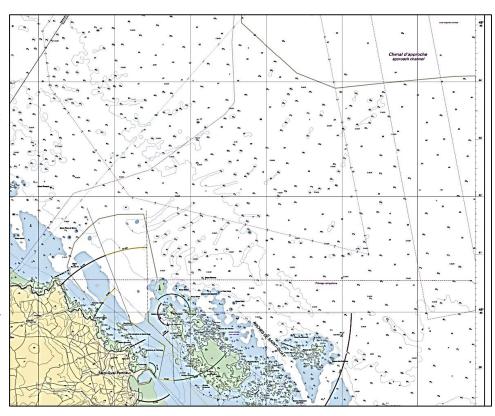
Improve safety of navigation (use of appropriate scale)

Remove discontinuities (true seamless cartographic representations)

Easier and less time consuming maintenance

Cartographers will focus on most sensitive areas

Will allow future developments for automatization of paper chart and chart on demand



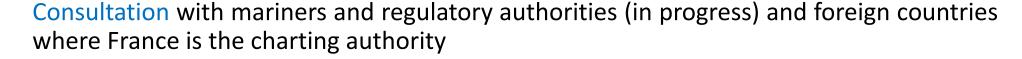


EVOLUTIONS AND ADAPTATIONS





Review of cartographers' methods



Possible interactions with other HOs and within RHCs to harmonize scales

Adaptation of charts (paper charts, ENCs, etc.)

No impact on the transition to the dual-fuel period:

the full coverage of the FR S-101 ENCs will be available for the first ECDIS S-100

WORK IN PROGRESS



IHO ACTIONS TO BE CONSIDERED BY THE WENDWG



To note this paper