SevenCs

Oceania

ENC Analyzer Horizontal and Vertical Consistency (HVC) Module

PRODUCT DESCRIPTION

The challenge for ENC producers today is to ensure consistent encoding of features that span multiple ENCs. Features that are common to adjacent ENCs, and overlapping ENCs of different scale bands, are often encoded from different data sources, potentially leading to inconsistencies in the encoding of a feature's spatial geometry and attributes. The ENC Analyzer HVC module has been developed to assist ENC producers achieve a consistent presentation of their ENC data across cell boundaries and scale bands.

Horizontal consistency refers to the consistent representation of features that span cell boundaries.

Vertical consistency refers to the consistent representation of features that appear in overlapping cells of differing usage / scale bands.

The ENC Analyzer HVC module performs horizontal and vertical consistency validation based on S-65 – Electronic Navigational Charts (ENCs) "Production Guidance" Ed. 1.2.

KEY FEATURES

Horizontal consistency checks that:

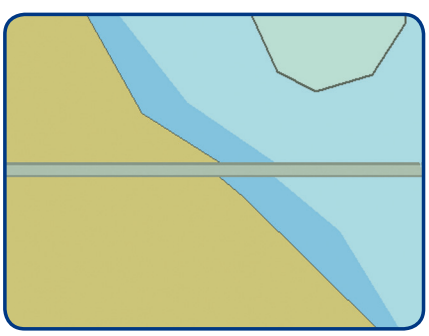
- cells do not overlap by more than 0.125mm at compilation scale
- there is continuity of linear features between adjacent cells
- there is consistent encoding of attributes for adjacent features
- there is continuity of area features between adjacent cells
- there is no significant gap along the boundaries of bordering cells

Vertical consistency checks that:

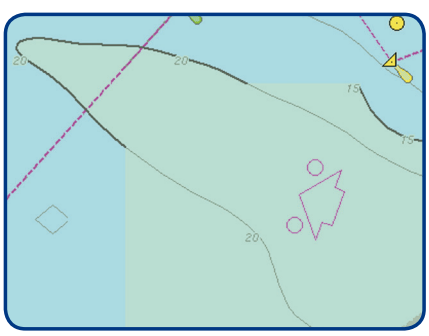
- overlapping same real world features within overlapping ENC cells have consistent positions
- attributes for overlapping features are encoded consistently
- navigable water of a small scale cell does not overlap non-navigable areas of a large scale cell
- navigable water of a small scale cell is equal in depth or shallower than overlapping areas of a large scale cell
- small scale cells do not have areas of "No Coverage" (M_COVR with CATCOV=2) where there is coverage available in a larger scale cell
- overlapping areas of a small scale cell do not have a higher CATZOC rating than that of a large scale cell

Checks that the coordinate multiplication factor (COMF) is the same for all cells.

Available on Microsoft Windows® XP / 7



Significant gap between bordering cells



Mismatch in contour intervals

ENC ANALYZER HVC MODULE