MBSHC23

## S-100 Validation

30-31 March 2022

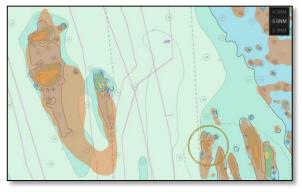
Emma Wise SevenCs



## SevenCs / ChartWorld Products and Services

- Chart Distribution (incl. Nautical Publications)
- Solutions for Voyage Planning
- Fleet Monitoring
- ECDIS Kernel software
- Web based solutions for electronic charts
- Chart Production/Validation Software
- ECDIS and Navigation Software (ECS, PPU)
- Complementary data services (satellite derived shoals, T&P,
   Nav Areas )









### **Brief overview**

- 7Cs have an S-100 Kernel Nautilus.
- S-101 support was implemented several years ago
- S-101 kernel was used in 7Cs Analyzer and S-101 Reader, and S-101 Writer already
- Implementation of S-101 and S-102 display and interoperability almost finished
- New version of eGlobe is currently being implemented in eGlobe ECDIS
- S-101 and S-102 display will be added to 7Cs Analyzer
- FME reader and writer S-100 functionality





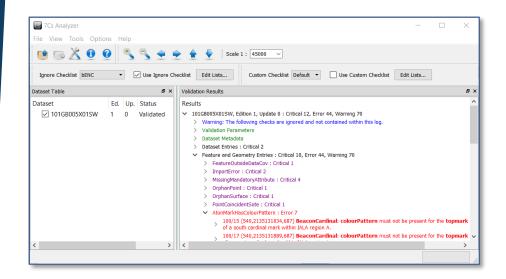




# S-101 Validation

### S-101 Validation

- Based on existing S-58 checks
- Adjusted to honor S-101 specifics:
  - Topology model
  - Feature Catalogue (Feature Types, Information Types, Complex Attributes)
- Activities in line with development of validation checks for S-101
- S-101 custom checks can be added (e.g., to test new checks before they are approved)



UwtrocExpsou1Depare: Error 6

100/757 (540,2135172019,687) UnderwaterAwashRock: valueOfSounding is outside of the range the overlapping DepthArea.

Categories: Bathymetry and Attribute

Suggested Solution: Populate expositionOfSounding with the correct value.

Related Objects:

100/218 (540,2135139331,687) DepthArea

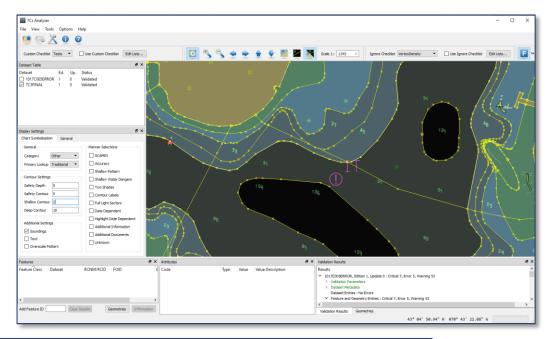
References:

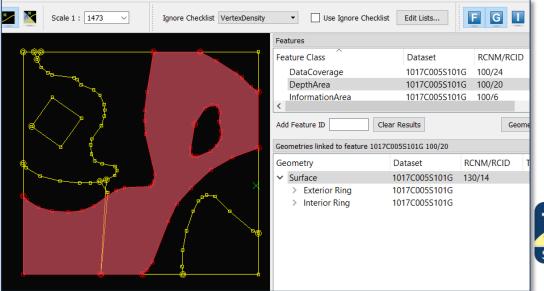
S-101 ENC Validation Checks, Ed. 1.0.0, check 1772a



### S-101 Validation, new features

- Display of S-101 geometry
- On selection of error message affected items are highlighted in chart display
- 7Cs Analyzer "unveils" the S-101 topology model
- In depth analysis of feature and spatial relations, feature attribution, feature associations
- New features in the pipeline:
  - full S-101 portrayal and S-102 support







## 7Cs Analyzer Service API

### 7Cs Analyzer Service API

- Provides a method to operate 7Cs Analyzer without human interaction
- For integration in new or existing workflows that require S-57 and/or S-10x validation
- The validation service can be accessed programmatically via a REST API
- Exists as Windows Services application
- Prototype will bemade available in Q2 2022



POST /api/Analyze Create tasks to analyze the datasets identified by datasetNames.			
Parameters			Cancel
No parameters			
Request body		multipart/for	rm-data v
directoryName * required string	Name of the directory where the datasets are stored.		
datasetName * required array	Names of datasets to be analyzed.		
	GB4X0000.000		
	GB5X01NE.000		
	GB5X01NW.000		
	GB5X01SE.000		
	GB5X01SW:000		
	GB5X01SW.001		
	GB5X01SW.002		
	GB5X01SW.003		
	Add item		



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Thank You

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