

Title: S-98 Annex C correction regarding overscale pattern

S-100 Maintenance - Change Proposal Form

Organisation	NIWC	Date	10/11/2023
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Change Proposal Type *(Select only one option)*

1. Clarification	2. Correction	3. Extension
	X	

Location *(Identify all change proposal locations)*

S-100 Version No.	Part No.	Section No.	Proposal Summary
S-98 Annex C	-	C-12.1.4 para. 2 C-12.1.4 para. 6	See attached redlines. See attached redlines.

Change Proposal

The attached redlines align the overscale pattern requirement with the S-101 PS and the intended purpose of the equivalent S-52 requirement.

Change Proposal Justification

S-52 uses double ("X2") the compilation scale as the criteria for display of the overscale pattern, identifying these areas as "grossly overscale".

S-101 defines "Maximum Display Scale" as "the maximum (largest) scale with which the data is intended to be displayed." It further requires the overscale pattern to be displayed when "the MSVS is larger than the value indicated by **maximum display scale**". In this context, the data is "grossly overscale" when displayed at scales larger than the **maximum display scale** (beyond the intended use of the data).

The proposed change aligns the S-98 Annex C overscale pattern requirement with the intent of the S-52 requirement, and with the current S-101 PS requirement.

What parts of the S-100 Infrastructure will this proposal affect?

- S-100 Feature Concept Dictionary Interface or Database
- S-100 Portrayal Register
- S-100 Feature Catalogue Builder
- S-100 Portrayal Catalogue Builder
- S-100 UML Models

Please send completed forms and supporting documentation to the secretary S-100WG.

12-1.1.1 Overscale area at scale boundary

ECDIS displays all chart data at the same scale. In order to avoid leaving part of the display blank, the display may be rendered using data from multiple datasets. These datasets may contain **Data Coverage** areas with varying *maximumDisplayScales*.

The area fill OVERSC01 must be used to indicate **Data Coverage** areas displayed **X2 or more** larger than the *maximumDisplayScale*; provided that the area was displayed automatically by the ECDIS in order to avoid leaving that portion of the display blank.

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NOTE: This rule applies only to the automatic overscaling performed by the ECDIS in matching ENC's at different *maximumDisplayScales*. It should not be applied to an overscale display deliberately requested by the mariner, which should trigger the overscale indication required by IMO Performance Standard MSC 530(106) section 6.1.1.

A different overscale situation arises when the ship approaches a scale boundary from a larger to a smaller scale ENC, typically when leaving harbour. In combining data from the large scale and the small scale ENC's to generate a display at the larger scale, the ECDIS will have "grossly enlarged" the small scale data.

In addition to drawing the scale boundaries, the "grossly overscale" part of the display should be identified with area fill OVERSC01, as illustrated in Figure C-1.

In this context, "grossly enlarged" and "grossly overscale" should be taken to mean that the display scale is enlarged/overscale **by X2 or more** with respect to the *maximumDisplayScale*. For example, at the left edge of [Figure C-1](#) the display scale of 1/12,500 is X4 the *maximumDisplayScale* of 1/50,000, and so the overscale pattern is required.

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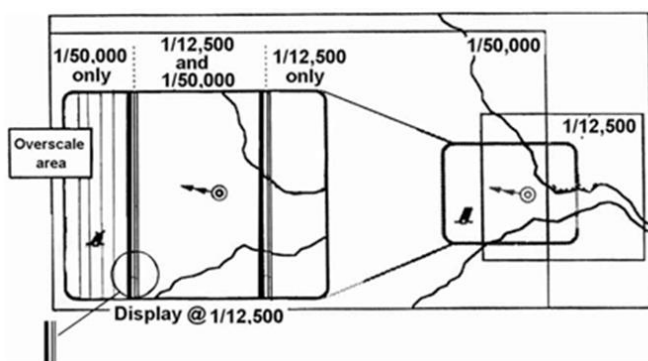


Figure C-1 - Illustration of overscale display

[The right hand side of the Figure shows the ENC layout with the screen window overlaid, and the left hand side is enlarged to show the ECDIS display on that screen.]

Note that in this situation the OVERSC01 area fill should only be shown on the area compiled from the smaller scale ENC. If the area from the larger scale ENC is also overscale, this should be indicated by the "overscale indication". The OVERSC01 area fill should not be shown on the part of the display taken from the larger scale ENC. For example if the display scale of the situation in the data coverage diagram was 1/3,500 the area of compilation scale 1/12,500 would have an overscale indication of X 3.6 but would have no OVERSC01 area fill.