

Paper for Consideration by ENCWG6

Proposed new check for ER files that change the extent of M_COVR = 1

Submitted by:	ENCWG S-58SubWG
Executive Summary:	S-57 states that changes to the extent of data coverage must only be achieved by the issue of a NE, there is currently no S-58 to check that ER files do not change the extent of M_COVR
Related Documents:	S-57 Appendix B.1 Annex A Use of the Object Catalogue for ENC.

Introduction / Background

Whilst reviewing critical error checks in S-58 we came across a mandatory requirement in S-57 that is not tested for and can cause gaps and overlaps in data. Both S101 and S57 state that M_COVR should not be modified by update. We have fallen foul of this omission from S-58 and consequently released numerous cells to market that introduced overlaps and gaps in ENC coverage.

Discussion

S-57 Appendix B.1 Annex A Use of the Object Catalogue for ENC Clause 2.6

"An ENC Update will be rejected by the ECDIS if it is located outside the area of data coverage for the cell (that is, area covered by meta object M_COVR with attribute CATCOV = 1 (coverage available)) or if it changes the extent of this area. Where the area of data coverage for a base ENC cell is to be changed, this must be done by issuing a New Edition of the cell. "

To ensure future ER files do not change the data coverage of an ENC the following new check is proposed:-

1024c	For an update cell file where the extent M_COVR where CATCOV is Equal to 1 (coverage available) is not EQUAL to the extent M_COVR where CATCOV is Equal to 1 (coverage available) on base cell to which they apply.	ER file changes the extent of data coverage.	Issue as NE	Appendix B.1 Annex A 2.6)	C
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Conclusions

The inclusion of the proposed check to S-58 will identify ER files that change the extents of M_COVR and the possibility of introducing gaps and overlaps in the ENC coverage.

Recommendation

It is recommended that ENCWG approve the inclusion of this new check in the proposed new edition of S-58.

Action Required of ENC WG

The ENCWG is invited to:

- a) Discuss and approve the proposed check for inclusion in S-58.