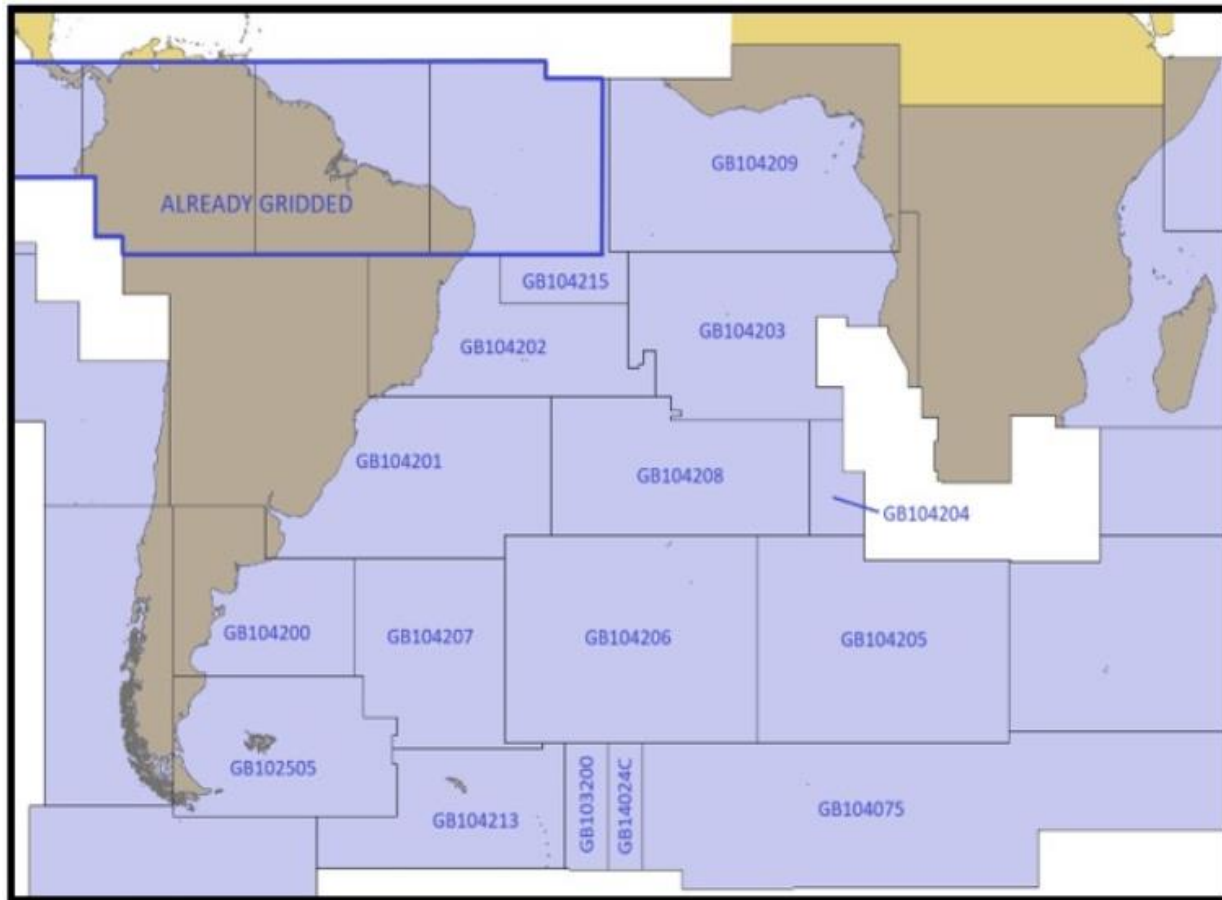


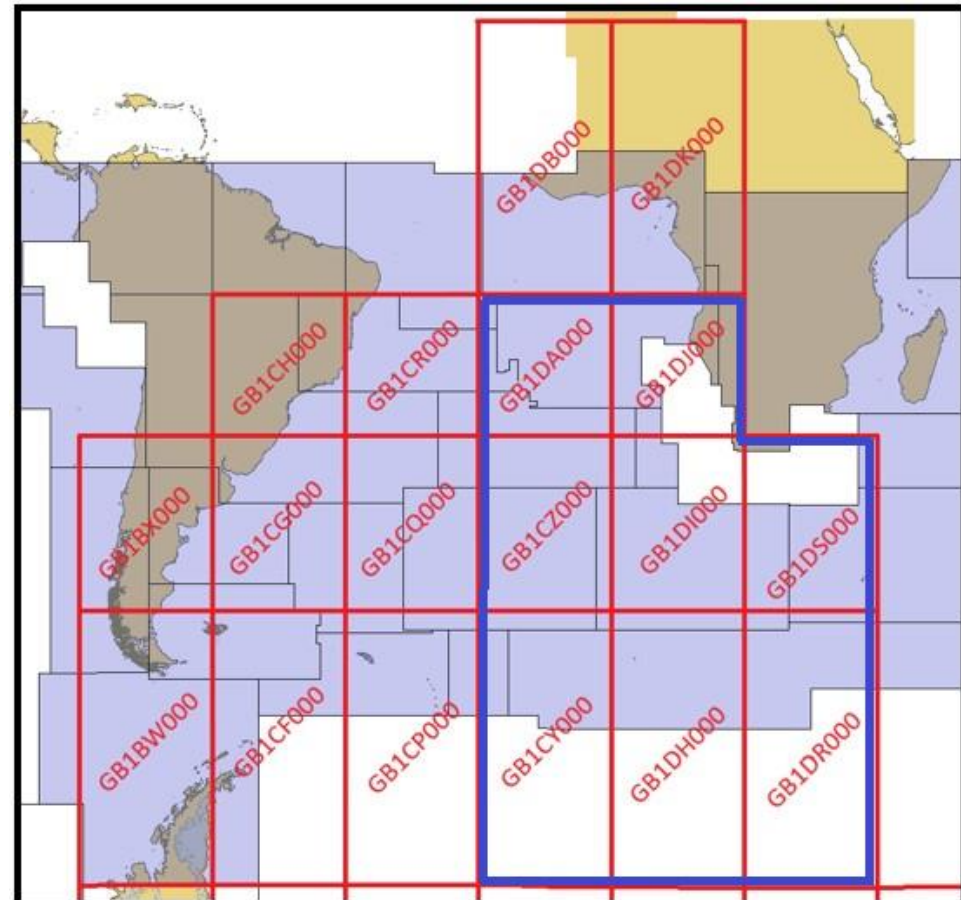
UKHO Gridded Band 1 ENC scheme proposal for SAIHC ICCWG

Note – the proposed scheme does not alter the overall coverage or introduce any new gaps or overlaps.

Existing band 1 Scheme



Proposed Band 1 Gridded Scheme (Highlighted blue area)



Gridding:

Our current GB ENC scheme is based on paper charts which has resulted in complex shaped coverage areas, some large areas of 'no coverage' within ENCs and issues with data consistency between ENCs. The new gridded GB ENC scheme will be uniform in shape and will resolve data consistency issues. It also allows for the opportunity to include responses from focussed user research and requested data enhancements.

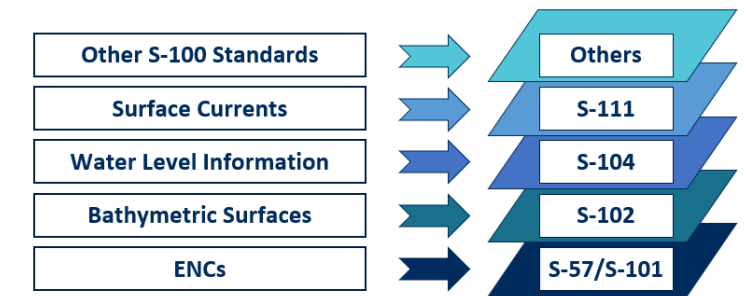
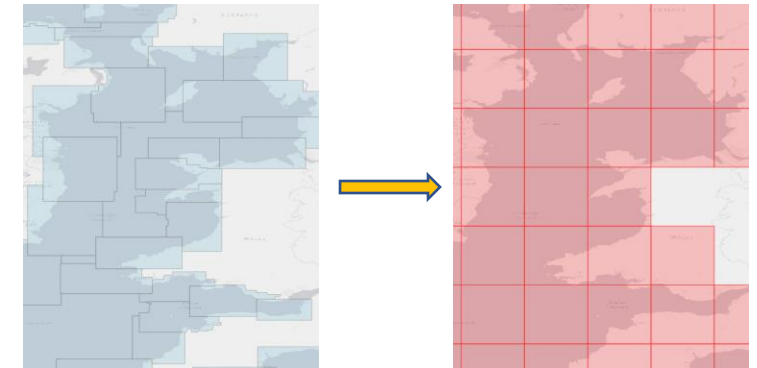
GB ENCs will use one naming convention.

Reasons for Gridding:

- UKHO is already producing test datasets for numerous S-100 related standards. These will be schemed using the GB grid parameters as we want to produce S-57 and S-101 ENCs from a single common grid system.
- The gridded scheme enables us to provide manageable file sizes and to create more High Density ENCs and supplementary 1m contouring
- ENC improvements provide better consistency of scale, linear and area features scale between ENCs.
- The gridded scheme will match the S-102 scheme (at scale band 5) and enables the creation of an interoperable data-stack of S-100 data with matching limits.

What does the grid look like:

Six different options were trialled and tested. How the grid squares fitted with the navigational data, the scale of the source data and the eventual number of ENCs which would be created were taken into consideration



	S ₁	S ₂	S ₃	S ₄	S ₅	S ₆
Grid	Aggregated Super-Small	Small General ENC	Medium	Large Aggregated	Large Berthing S102	Super-Large S102
UK1	20	5	1.25	0.25	0.125	0.0625
UK2	12	4	0.8	0.1	0.05	0.025
UK3	15	3	0.75	0.15	0.075	0.0375
UK4	12	3	0.6	0.12	0.06	0.03
UK5	20	4	0.8	0.2	0.1	0.05
UK6	24	6	1.2	0.3	0.15	0.075