

IC-ENC S-1XX PDT Release Notes

Release No. 6

Date: 12 January 2024

This Release Note will be updated for new S-1XX trial datasets as they become available under the IC-ENC Product Development and Testing (PDT) Licence. The S-1XX trial datasets currently available are shown below.

A Release List will be generated as new S-1XX trial datasets become available under the IC-ENC PDT Licence, this details the individual datasets by product type, e.g., S-102, and Level, e.g., Level 2, as explained further below. The Release List is cumulative and will be updated as more S-1XX datasets become available.

IC-ENC PDT Licence Overview

The purpose of the IC-ENC PDT Licence type, is to create an environment (with controlled limits) that provides organisations access to S-1XX datasets, enabling them to develop, innovate and test new product ideas internally and in the market before moving to a 'live' service.

Please refer to the IC-ENC PDT Licence for further details on what you can do with the data, what is asked of you, what you must not do and the small print.

Accessing the S-1XX Trial Datasets

For Members – all released datasets can be found in the [PDT Members Area](#), and you will receive an email notification when data has been added to the data portal.

For VARs/DPs/companies – Releases will be uploaded to your existing FTP Upload folder, and you will receive an email notification when data has been added to this folder.

NOAA's S-1XX trial datasets are publicly available to download from their AWS Data Exchange [here](#).

Available S-1XX Trial Datasets

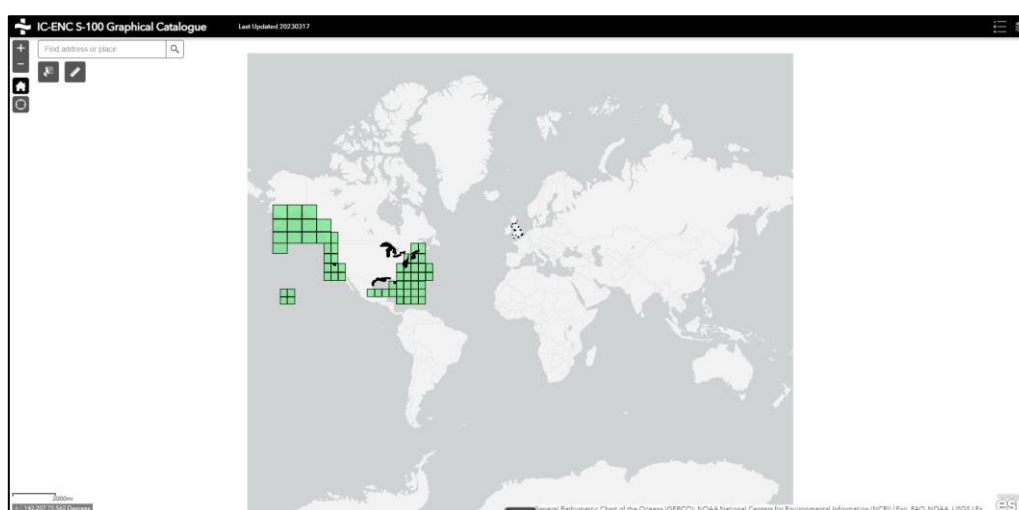
Release	Date	Data added	Comments
6	20240112	1 x GR S-102 dataset 1 x DK S-128 dataset 10 x TR S-101 ENCs 65 x DE S-102 datasets	Created by IC-ENC using CARIS HPD 4.1.41
5	20230810	8 x NL S-101 ENCs 8 x NL S-102 datasets 12 x NL S-104 datasets 384 x NL S-111 datasets 3 x NL S-122 datasets	

		1 x NL S-123 dataset 1 x NL S-128 dataset 1 x ES S-101 dataset	
4	20230705	6 x NOAA S-104 datasets 2 x IC-ENC S-128 datasets 6 x NL S-101 ENCs 2 x ES S-101 ENCs 2 x GR S-101 ENCs 1 x ES S-102 dataset	The ES & NL S-101 ENCs were created by IC-ENC using CARIS HPD 4.1.36 and align to S-100 Ed 5.0.0 and S-101 1.1.0
3	20230113	17 x GB S-101 ENCs 303 x GB S-102 datasets	
2	20221031	7 x BE S-101 ENCs 47 x NOAA S-111 exchange sets	The BE S-101 ENCs were created by IC-ENC by converting the S-57 ENCs using CARIS HPD 4.1.29
1	20220425	86 x NOAA S-102 datasets 1 x NOAA S-111 dataset	

See the [IC-ENC PDT Release List](#) for further details.

Coverage of S-1XX Trial Datasets

All S-1XX trial datasets released under PDT can be viewed in the [IC-ENC S-100 Graphical Catalogue](#).



Levels of S-1XX Trial Data

The S-1XX trial data available under the PDT licence has been categorised into the following levels:

Level	Description	Example
0	Dataset(s) as received, no CATALOG.XML, unassessed	A single S-101 dataset, no exchange set folder structure, no CATALOG.XML file
1	Individual exchange set(s) as received, with individual CATALOG.XML, unassessed	A single exchange set containing an S-101 dataset and CATALOG.XML file

2	Packaged data with single CATALOG.XML, unassessed	An exchange set containing S-101 and S-102 datasets with a single CATALOG.XML file
3	Packaged data with single CATALOG.XML, assessed against registration checks	An exchange set containing S-101 and S-102 datasets with a single CATALOG.XML file
4	Signed exchange set (initially this may not be signed by members), assessed against registration checks	A partially signed exchange set containing one or more S-101 datasets
5	Signed exchange set, (signed by members and IC-ENC), assessed against registration checks	A fully signed exchange set containing one or more S-101 datasets

S-1XX Product Type Overviews

S-101 ENC

The S-101 ENC product is a vector chart which contains an extraction of real-world information necessary for the safe navigation and route planning of vessels. It acts as the base navigation layer for an S-100 based marine navigation system and meets IMO and SOLAS regulations. S-101 ENC products are encoded in ISO/IEC 8211 format. For more information on the S-101 Product Specification, please visit the [IHO Registry – S-101](#).

S-102 Bathymetric Surface

S-102 datasets provide high resolution bathymetry in gridded form to support safety of navigation. S-102 products are encoded in HDF5 format. For more information on the S-102 Product Specification, please visit the [IHO Registry - S-102](#).

S-104 Water Level

S-104 datasets provide water level information for surface navigation. S-104 products are encoded in HDF5 format. For more information on the S-104 Product Specification, please visit the [IHO Registry – S-104](#).

S-111 Surface Currents

S-111 datasets provide the speed and direction of surface currents to support improved decision making and more efficient navigation through route optimisation. S-111 products are encoded in HDF5 format. For more information on the S-111 Product Specification, please visit the [IHO Registry - S-111](#).

S-128 Catalogue of Nautical Products

S-128 represents the catalogue of nautical products which describes the availability of paper charts, ENCs and other nautical products, as well as applications for navigational purposes, online services and e-Navigation services. S-128 is intended for the exchange of the status of nautical data products and can be used as a Nautical Publication Information Overlay within ECDIS. For more information on the S-128 Product Specification, please visit the [IHO Registry - S-128](#).



Working together to
assure navigational safety

Contact Information

If you have any questions or feedback, please contact IC-ENC at therenc@ic-enc.org