

Local Marine Notice 020-2025

Sydney Harbour and Port Botany

Australia's Transition to S-100 Universal Hydrographic Data Model

The International Hydrographic Organization's (IHO) **S-100 Universal Hydrographic Data Model** is a new, modern standard for maritime products and services, set to be adopted in 2026. This framework is based on modern ISO geospatial standards and will eventually replace the older S-57 standard.

S-101 will be the new product specification for Electronic Navigational Charts (ENCs). From 2029, it will operate alongside S-57 products on "Dual Fuel" ECDIS (Electronic Chart Display and Information Systems) during a transition period.

Beyond S-101, the S-100 framework allows for additional, interoperable product layers that can enhance ENCs. Notable examples include:

- **S-102:** Bathymetric Surface
- **S-104:** Water Levels
- **S-111:** Surface Currents

The Australian Hydrographic Office (AHO) will commence a phased release of S-100-based products in accordance to the following plan:

Sample Area Release (Late 2025)

The AHO has identified Port Botany (New South Wales) for the release of sample S-100 based products in Q4 2025. This trial area will include all the product layers mentioned above, providing stakeholders with an opportunity to familiarize themselves with the new products, ahead of the operational release in March 2026.

Operational Rollout (Starting March 2026)

The initial rollout will focus on 22 priority areas—19 in Australia and one each in Antarctica, Papua New Guinea, and the Solomon Islands. This phase will comprise 87 products, including S-101 (transit and port cells), S-102, S-104, and S-111 datasets.

S-100 coverage will continue to expand in the coming years. By 2032, Australia's S-101 ENC coverage is expected to fully replicate its current S-57 portfolio. The IMO (International Maritime Organization) is expected to officially sunset the S-57 standard once there is comprehensive, worldwide S-101 coverage.

For more information, please refer to [S-100: Next Generation Maritime Products and Services](#).

Mariners are advised to:

- Review the trial S-100 products for Port Botany.
- Prepare for the phased adoption of S-101 and related datasets on ECDIS.
- **Note that there may be a slight discrepancy between the information in the S-100 ENC product used by the pilot and the S-57 ENC currently available to the ship.**
- Follow updates from the AHO and the Port Authority of NSW for guidance during the transition period.

For a list of Local Marine Notices currently in force, please see:

[Sydney Harbour and Port Botany notices, forms and permits | Port Authority of NSW](#)