22nd Meeting of the South West Pacific Hydrographic Commission

AU S-100 WG Update

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Australia S-100Working Group

- The S-100 Working Group was established under the Intergovernmental Committee on Surveying and Mapping (ICSM)
- AU S-100WG is responsible for coordinating and managing the timely and effective implementation of a broad range of S-100 products and services in the region
- Inaugural meeting was hosted by the Australian Hydrographic Office on 2nd of November 2022 (VTC)



S-100 Working Group webpage link







AU S-100WG Roadmap

Planning our route for efficient navigation







S-100 Test Bed Focus Group (TBFG)

- The S-100 Test Bed Focus Group (TBFG) was established in October 2023
- TBFG's objective is creating a national test bed to enable the development and testing of different S-100 product prototypes
- Develop project scope, test plan, test scenarios
- Share and perform testing of various S-100 dataset prototypes

S-1XX Test Datasets

S-1XX	Organisation
S-101	Australian Hydrographic Office (AHO)
S-102	Australian Hydrographic Office (AHO)
S-104	Australian Hydrographic Office (AHO)
S-111	Australian Hydrographic Office (AHO)
S-124	Australian Maritime Safety Authority (AMSA)
S-129	OMC International
S-128	Australian Hydrographic Office (AHO)



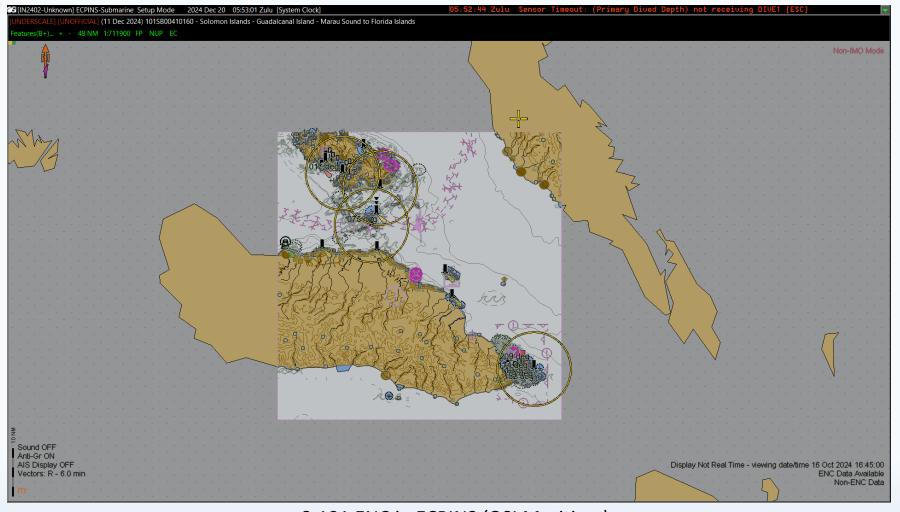
Main achievements

- S-101, S-102, S-104, S-111, S-124 & S-129 test datasets
- Visualise and test S-1XX test datasets: Shore ECDIS, KHOA S-100 Viewer, SealQ Pilot, Qastor, OSI ECPINS
- S-100 Test Cases Workshops
- Supported IHO Singapore Lab Project Amerigo Vespucci
- ICSM funding for S-XXX Phase 2 test dataset prototyping over three financial years





S-101 test datasets



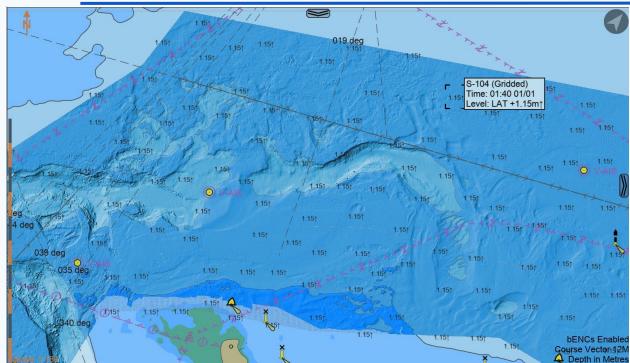
S-101 ENC in ECPINS (OSI Maritime)



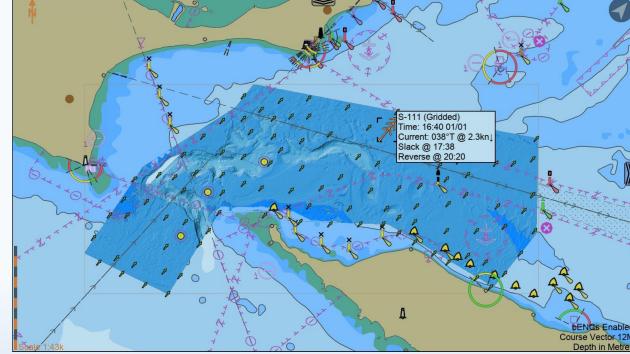




S-102, S-104 and S-111 test datasets



Port of Melbourne – S-102 and S-104 in SEAiq Pilot



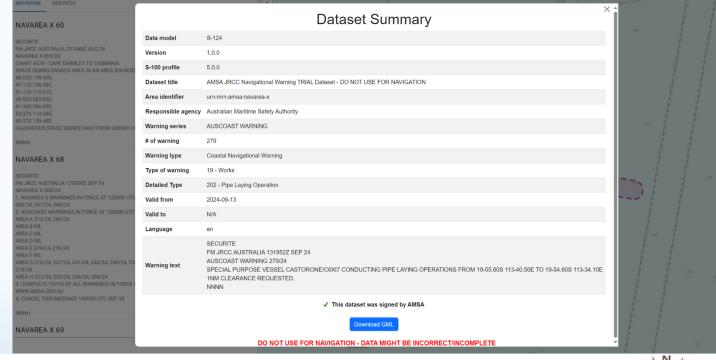
Port of Melbourne – S-102 and S-111 in SEAiq Pilot



S-124 test datasets



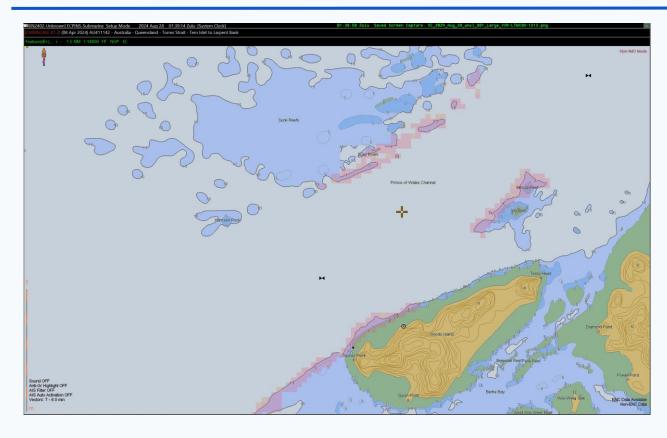
S-124 Navigational Warnings – Pipe Laying Operations



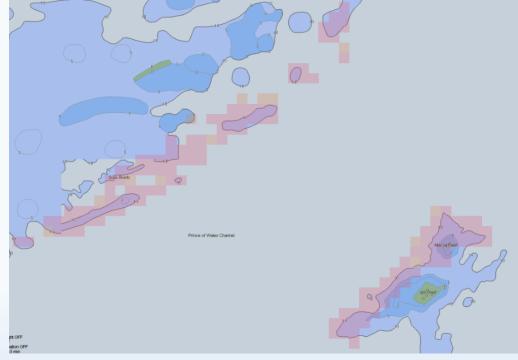




S-129 test datasets



S-129 Under Keel Clearance in Torres Strait in ECPINS (OSI Maritime)







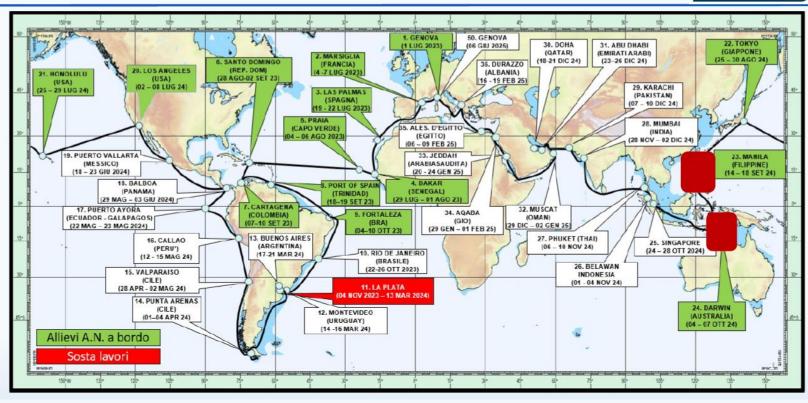
IHO Singapore Lab project – Amerigo Vespucci





SEA TRIALS AND TESTING: MANILA - DARWIN





S-101 ENCs on S-100 ECDIS during Amerigo Vespucci's world tour

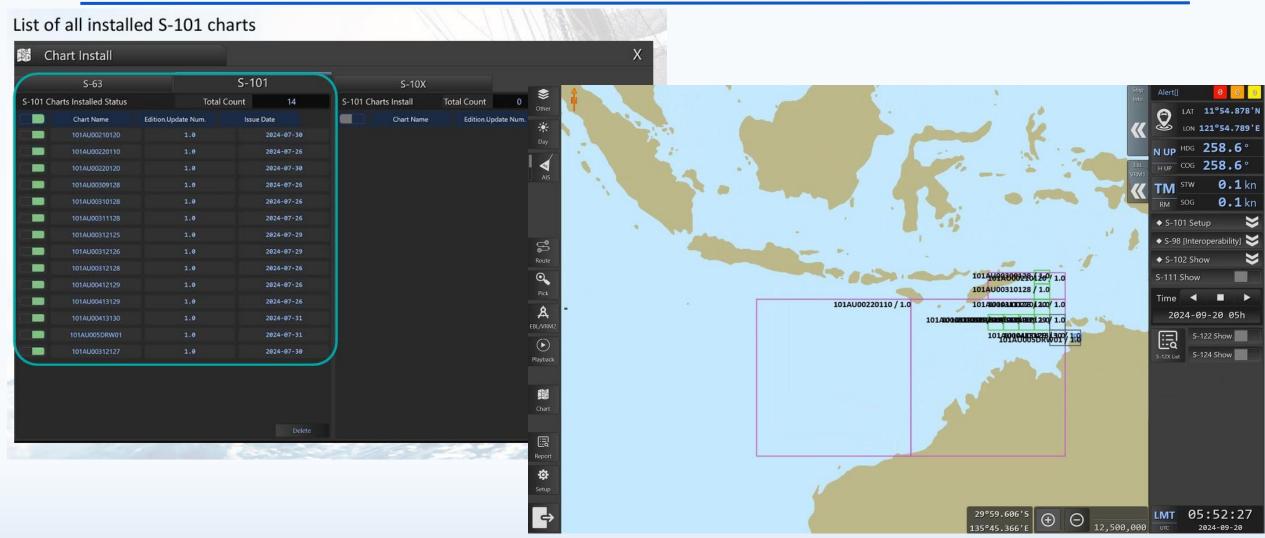
Darwin (AU) 4-7th October 2024







AU S-101 ENCs in S-100 ECDIS



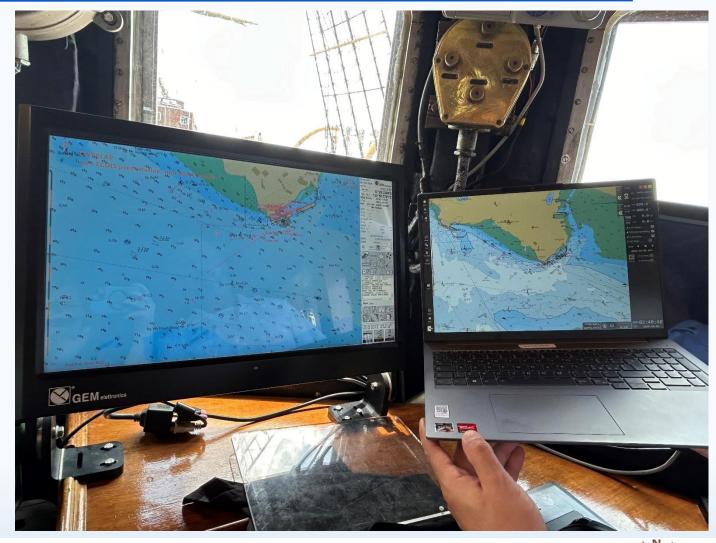






Amerigo Vespucci – S-100 ECDIS testing

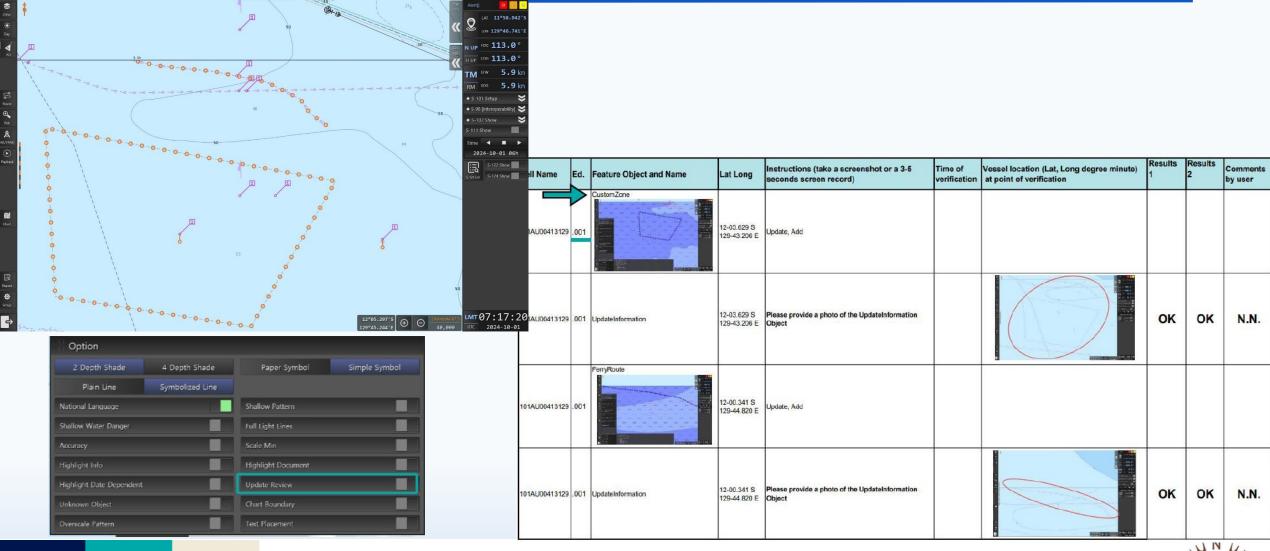
- 14 AU S-101 ENCs and updates were loaded in S-100 ECDIS;
- Demonstration test performed on three charts (101AU00413129 – 101AU00413130 – 101AU005DRW01);
- Checked the loaded updates against chart;
- Checked the S-57 and S-101 overlapping areas;
- All tests were carried out with positive result.







Demonstration test 1.2 – 101AU00413129









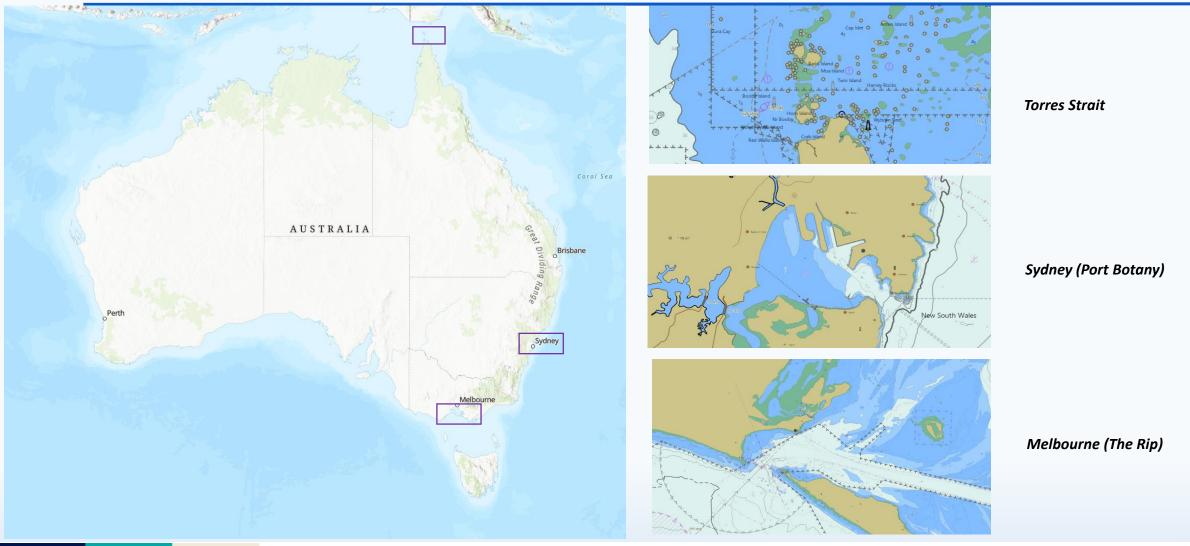
Next Steps

- S-100 Communication Strategy
- Finalise S-100 test cases and scenarios for test bed areas
- OEMs engagement and test bed partners
- Develop test datasets Phase 1 and Phase 2
- Collaborate with IC-ENC to establish a unified test environment for all IC-ENC members
- Update production tools, processes and staff training to support roll out S-1XX products





Test Bed Areas

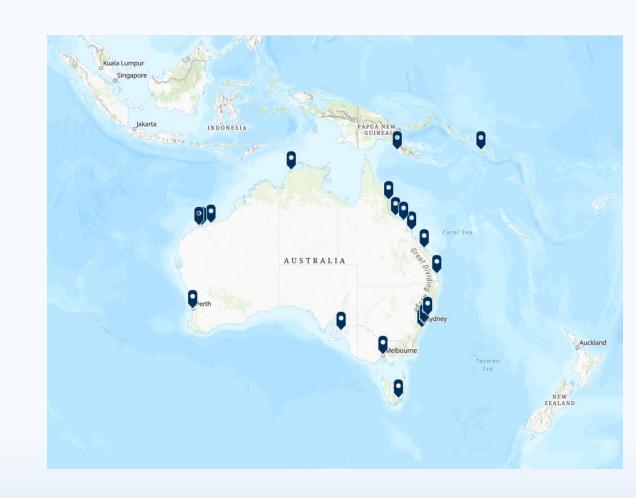






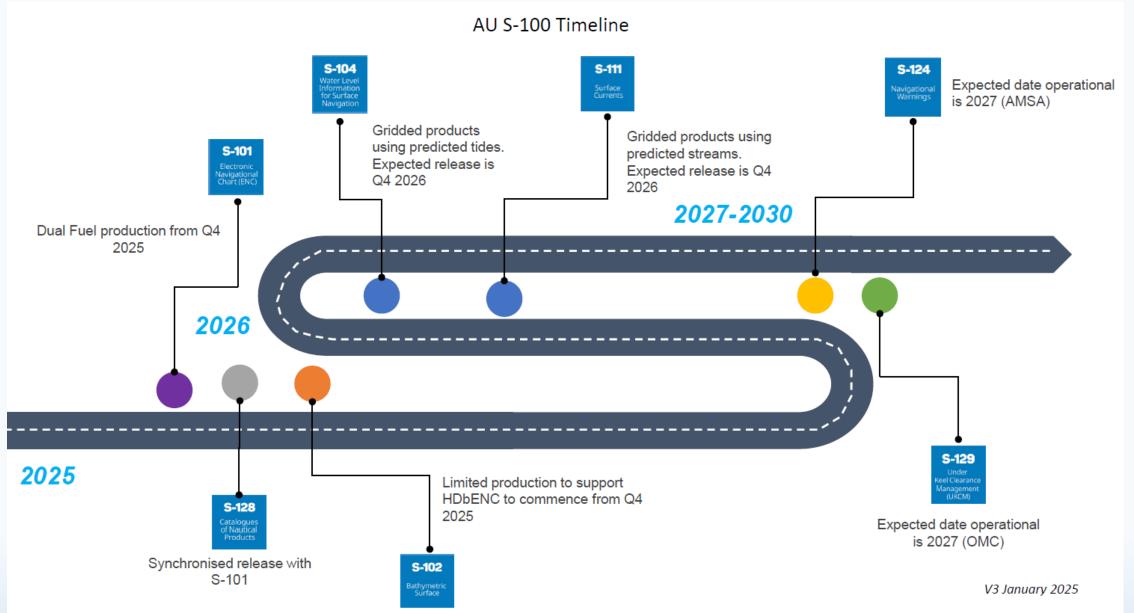
AHO S-1XX Roll Out

- S-101 and S-102
 - 20 focus areas
 - 29 transit cells
 - 24 port cells
 - 16 S-102 bathymetric surfaces
 - 69 products
- S-104 in areas covered by S-102 bathymetric surfaces (5 locations)
- S-111 in 8 different locations













Thank You



