

### **Australian Hydrographic Office**

- Approx 105 civilian
- 15+ Military (RAN) staff





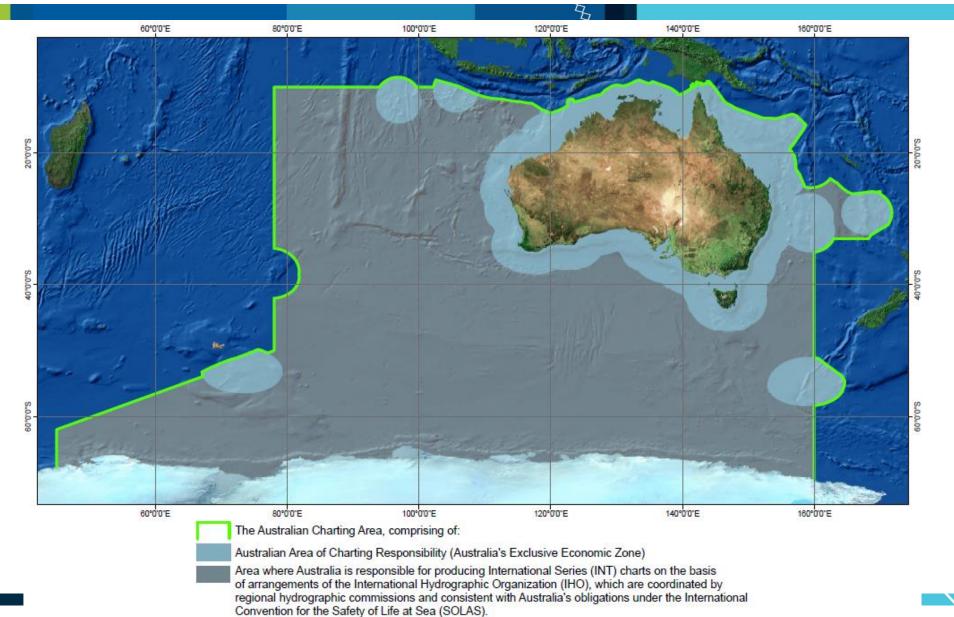
Production, Maintenance and Quality Assurance



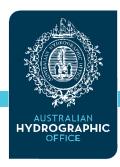


#### The Australian Charting Area





#### **Project Muru**





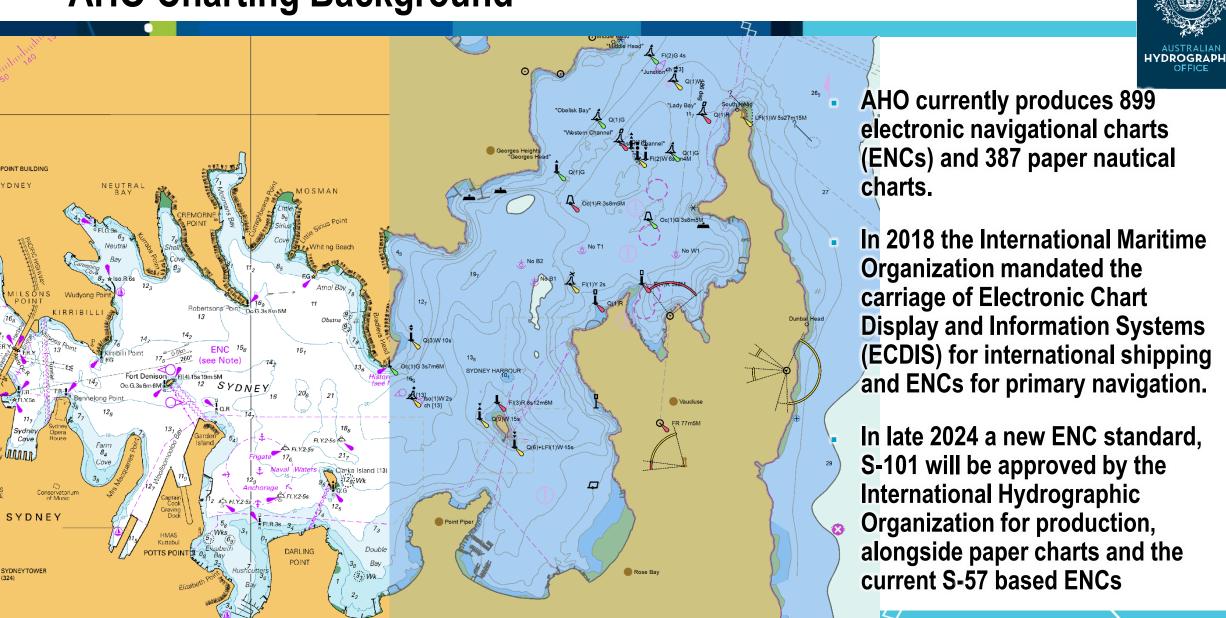
# 2025 Digital Transformation Roadmap

S-100 products and services

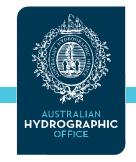
Full digital delivery

Vectorization of legacy bathymetry

### **AHO Charting Background**



#### **Digital Transformation Pillar 1 - S-100**



#### 4

#### SCOPE

- Plan production of:
  - S-101 Electronic Navigation Chart
  - S-102 Bathymetric Surface
  - S-104 Water Level Information for Surface Navigation
  - S-111 Surface Currents
  - S-124 Navigational Warnings
  - S-129 Under Keel Clearance Management (UKCM)
- These represent the 'route monitoring mode' product specifications within S-98

#### First step

Navigational Route Monitoring Mode S-98 Edition 1.0.0

**S-101 ENC** 

S-102 Bathymetry

S-104 Water Level

S-111 Surface Currents

S-124 Navigational Warnings

S-129 UKC Management

#### **Next step**

Navigational
Route Planning Mode
Future S-98 Editions

S-122 Marine Protected Areas

S-123 Marine Radio Services

S-125 Marine Navigational Services

S-126 Marine Physical Environment

S-127 Marine Traffic Management

S-131 Marine Harbour Infrastructure

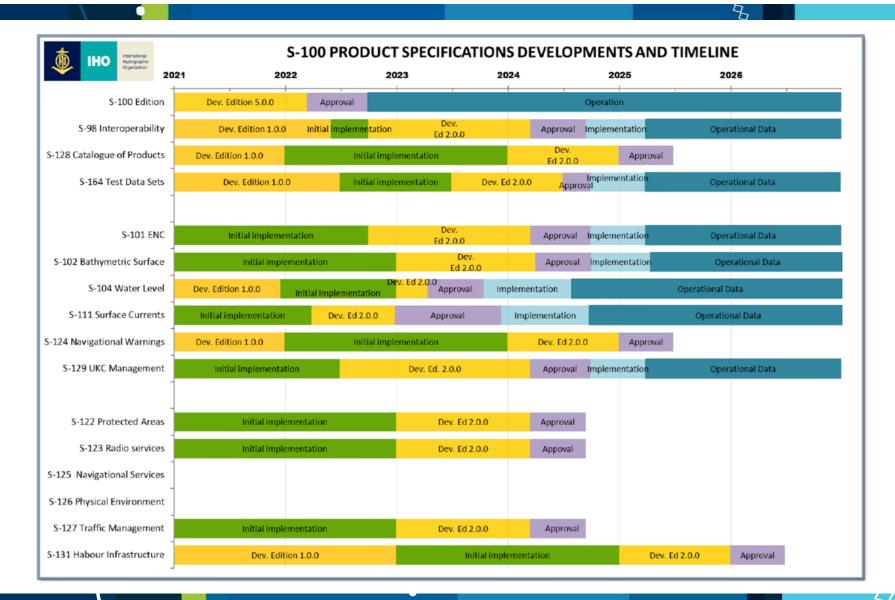
+ S-100 Products used in Monitoring Mode

S-128 Catalogue of Nautical Products

The IHO Navigational Package to be handled by the Interoperability Specification S-98. Additional layers may be added in the future.

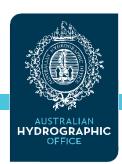
#### **Digital Transformation - S-100**

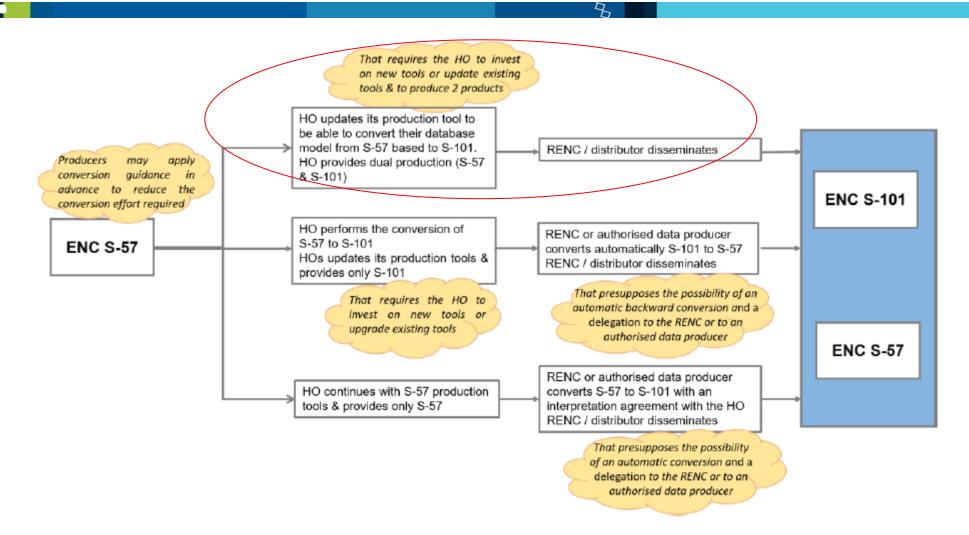




In accordance with the IHO S-100 implementation strategy, we expect the S-101 Edition 2 Product Specification to be published mid 2024.

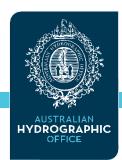
#### **Digital Transformation - S-101 ENC**

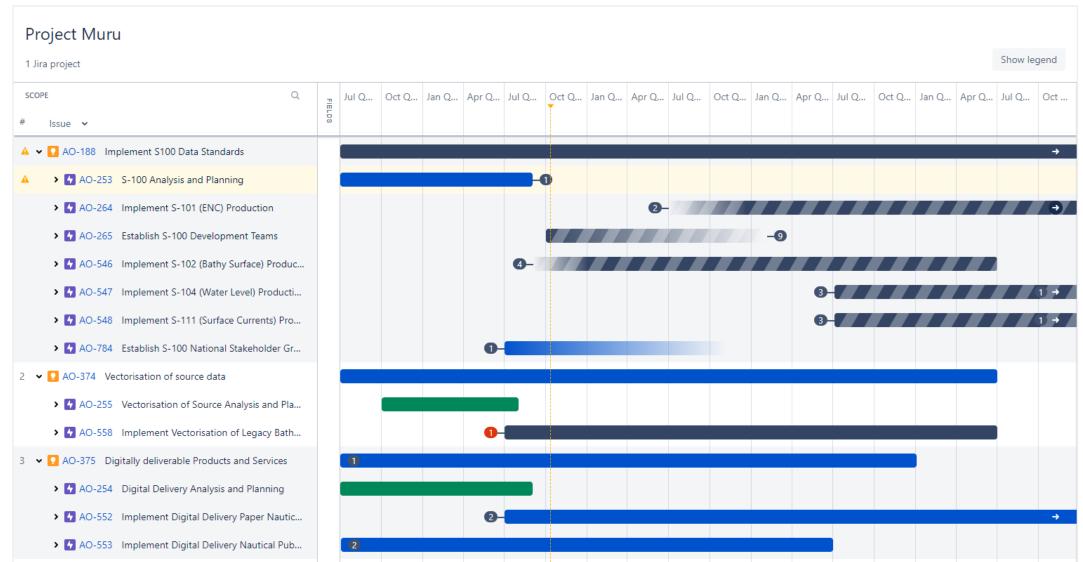




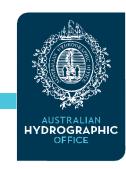
Potential options for HOs for future production of S-101 ENCs in conjunction with S-57 maintenance/production Rev1 version

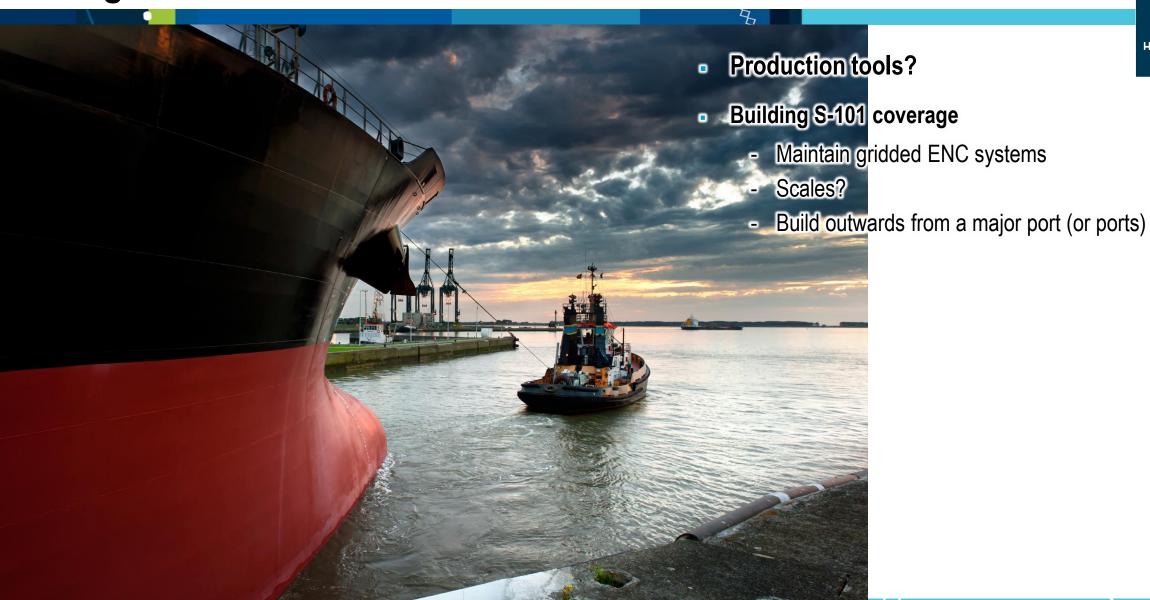
### **Project Muru Roadmap**



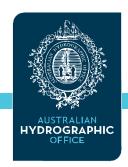


### **Digital Transformation - S-101 ENC**





### **Digital Transformation - S-100 Route Monitoring**



Scope of Authority: National S-100 Stakeholder Group

All S-100 Product Specifications Scope of Authority: Australian Hydrographic Office

S-102

S-101

S-104

S-111

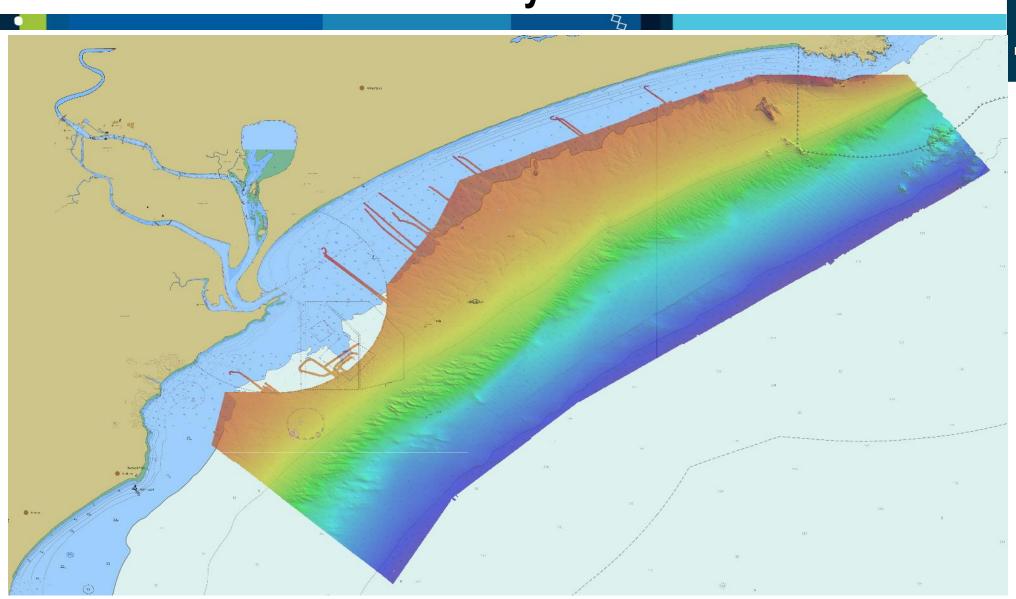
Scope of Authority: Tides Section

S-104 Water Levels

S-111 Surface Currents

- S-102 Bathymetric Surface
- S-104 Water Levels
- S-111 Currents
- S-124 Navigation Warnings
- S-129 UKCM

# **Digital Transformation - S-102 Bathy**

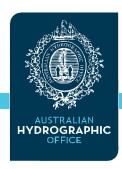


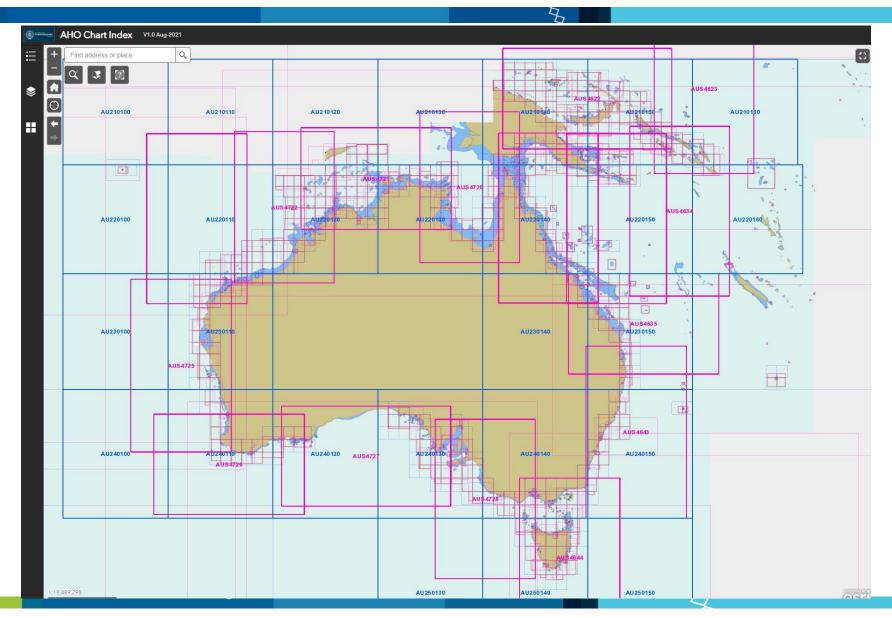
### **Digital Transformation Pillar 2 - Digital Delivery**

AUSTRALIAN HYDROGRAPHIC OFFICE

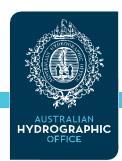
- Project Muru, Pillar 2 Digital delivery of all Australian AHO products by 2025 includes:
  - Electronic Navigation Charts
  - Chart Index
  - Nautical Publications
  - Paper Nautical Charts
- Currently these are mainly available through chart resellers. We will
  update the www.hvdro.gov.au website to facilitate online shopping and
  checkout.

# **Digital Transformation - Chart Index**



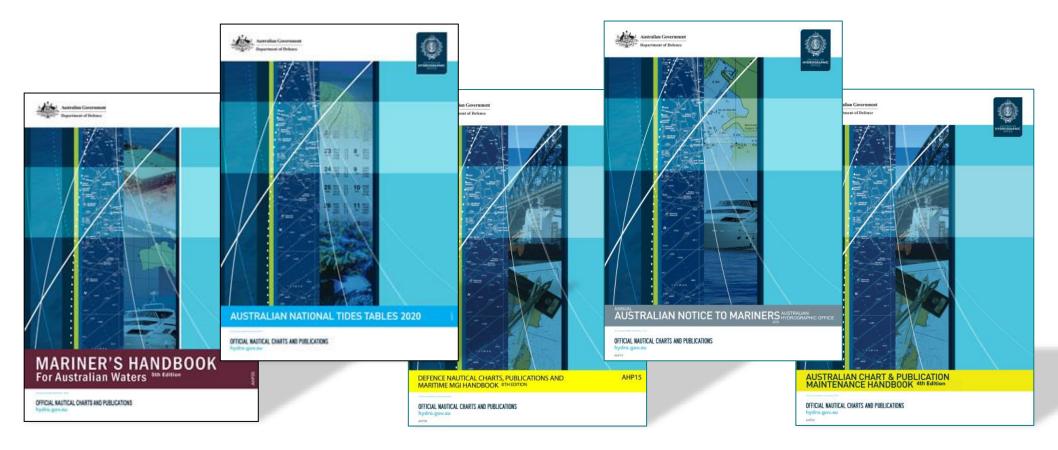


#### **Digital Transformation - Publications**

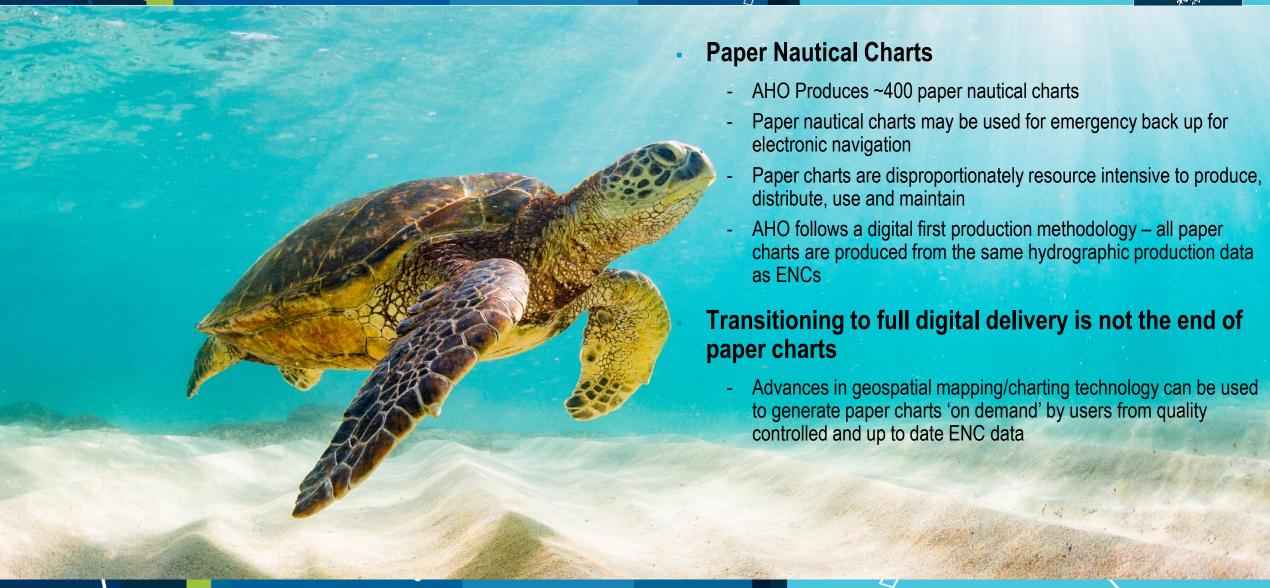


#### Nautical Publications:

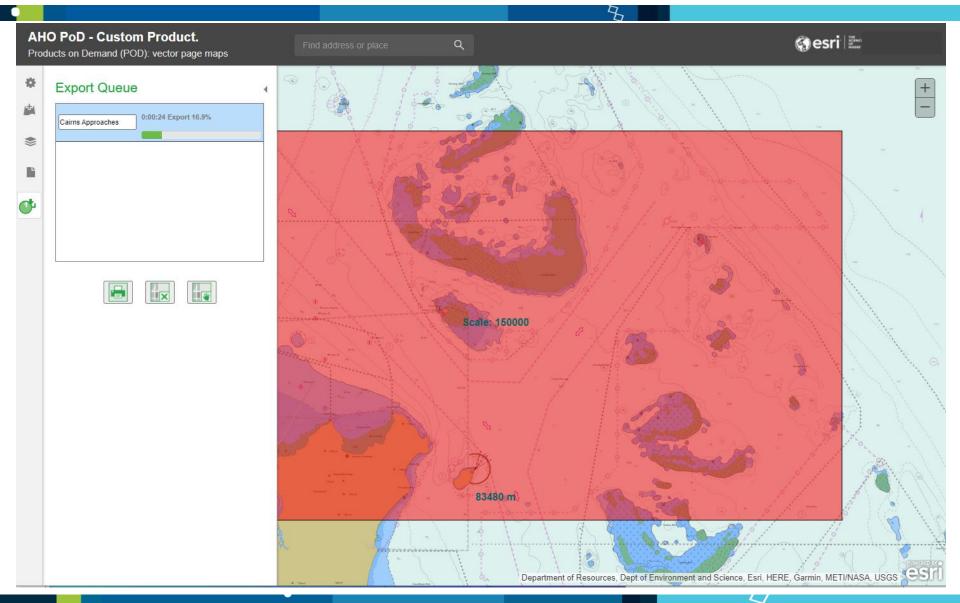
- This year, AHP11 Australian National Tide Tables 2022 has joined the suite of digitally available Nautical Publications (available now www.hydro.gov.au).

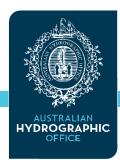


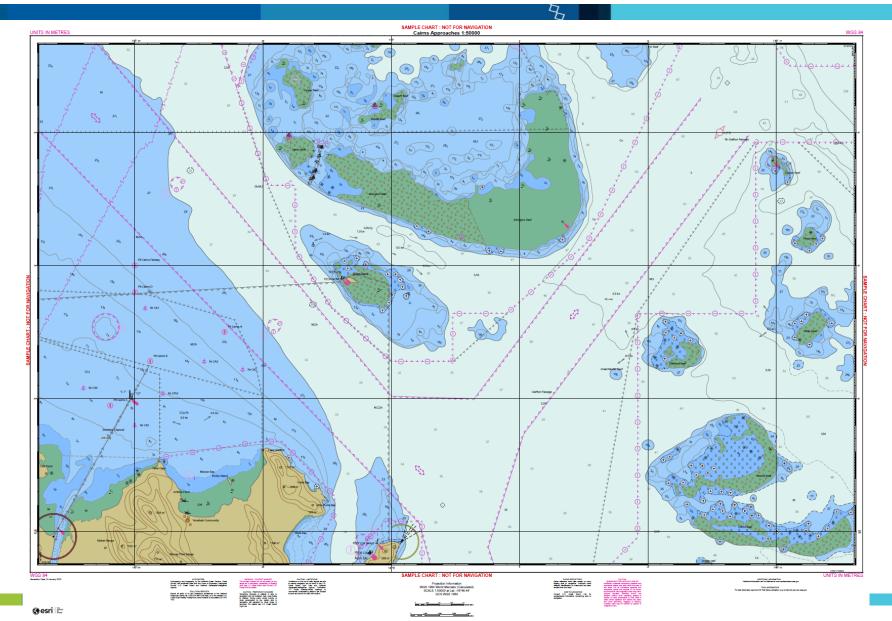


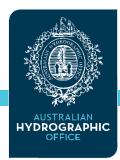


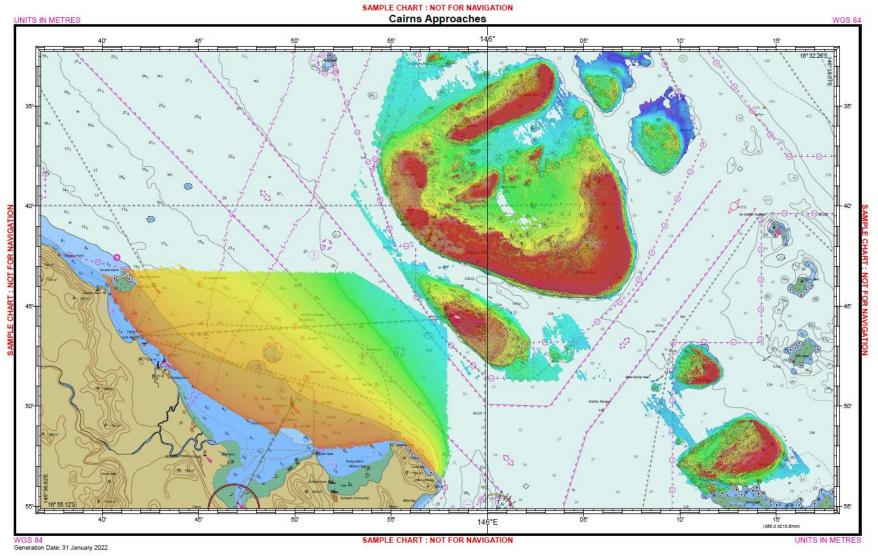














Projection Information WGS 1984 World Mercator (Calculated) SCALE 1:200000 at Lat. -16°43.69' GCS WGS 1984

