

# 21<sup>st</sup> Meeting of the South West Pacific Hydrographic Commission

National Report by



**AUSTRALIA**



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South West Pacific Hydrographic Commission



# Main achievements during the year

- HIPP - Initial Operating Capability (IOC) has been achieved, and Full Operational Capability (FOC) is targeted for 2024.
- HydroScheme 2020, 2021 and 2022 are complete. HydroScheme 2023 is currently underway and HydroScheme 2024 open to tender. Details of current and past HydroScheme activities are published on the AHO website at [www.hydro.gov.au/NHP/](http://www.hydro.gov.au/NHP/) as Story Maps
- The AHO has completed work on an online ChartScheme application that depicts where and when chart updates will take place. This is a significant piece of work that links HIPP activity to our national charting production activities. See [CHARTSCHEME 2024 \(arcgis.com\)](http://arcgis.com)
- Since the last SWPHC meeting, AHO has published 1209 ENC updates and 227 paper chart updates.



### CHARTSCHEME

CHARTSCHEME is the Australian Hydrographic Office (AHO) yearly charting plan and it is prepared and executed by the National Charting Directorate (NCD). It details planned activities within Australian waters and in waters of countries for which the AHO is the Primary Charting Authority (PCA).

The AHO is the national authority responsible for delivering hydrographic products and services to meet the demands of the maritime community in line with national and international obligations. These international obligations are reflected in Australian domestic law under the *Navigation Act 2012* and the *Marine Safety (Domestic Commercial Vessel) National Law Act 2012*. Under agreements between governments, Australia is also the PCA for Papua New Guinea and Solomon Islands. The AHO is currently in the process of establishing a long-term agreement with the government of Timor-Leste to support and develop their hydrographic and charting activities.

A charting project consists of new products or significant changes to existing products, in either coverage, scale or purpose. These are planned tasks usually included as key AHO deliverables within Defence's Portfolio

The total AHO portfolio as of 1st Feb 2023 includes:

Nation	Paper Charts	ENCs	Total
Papua New Guinea	80	168	248
Solomon Islands	17	43	60
Australia	275	717	992
<b>Total</b>	<b>372</b>	<b>928</b>	<b>1300</b>



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# HydroScheme Industry Partnership Program (HIPP)

**National Hydrography**

The Australian Hydrographic Office is responsible for the publication and distribution of nautical charts and information required for the safety of ships navigating in Australian waters. The National Hydrography Directorate identifies and prioritises areas within Australia's responsibility that require surveying to support national charting priorities identified with various stakeholders. The HydroScheme Industry Partnership Program is the commercial acquisition program that undertakes focused hydrographic survey activities to contribute to this requirement.

<b>HIPP</b> HydroScheme Industry Partnership Program		
<b>ABOUT HIPP</b>	<b>HYDROSCHEME ACHIEVEMENTS</b>	<b>SUBMIT A SURVEY REQUEST</b>
<b>HYDROSCHEME 2024</b>	<b>HYDROSCHEME 2023</b>	<b>HYDROSCHEME 2022</b>

- Annual Plan for HIPP Panel, with the year referring to the year of commencement.
- *HydroScheme* is published in October each year for the following Financial Years survey activity.
- *HydroScheme* is published as a ESRI Story Map updated regularly on the award of surveys and progress of data collection.
- HIPP is focused contracted data collect to support AHO National Role
- Nine Companies selected for HIPP Phase 1 Panel



HydroScheme – [www.hydro.gov.au/NHP/](http://www.hydro.gov.au/NHP/)



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# New HIPP Requests

- HIPP Requests – via AusSeabed
  - Coordinates
  - Metadata
  - Data type
  - Risk
  - Timeframe
  - Streamlined ingest into SPS

A new HIPP request has been submitted for consideration.



**AUS**  
SEABED

*Bringing the seabed  
to the surface*

#### Areas of Interest

Risk Issues/Caveats or Constraints  
undefined

Further Information  
undefined

Name  
Cape Leeuwin to Albany

Calculated Area  
13,899.4 km<sup>2</sup>

Survey Standard  
IHO Order 1b

Overall Risk  
Moderate

Preferred Timeframe  
Mid-term (2-5 years)

Data Types to Capture  
Bathymetry



# HYDROSCHEME 2024

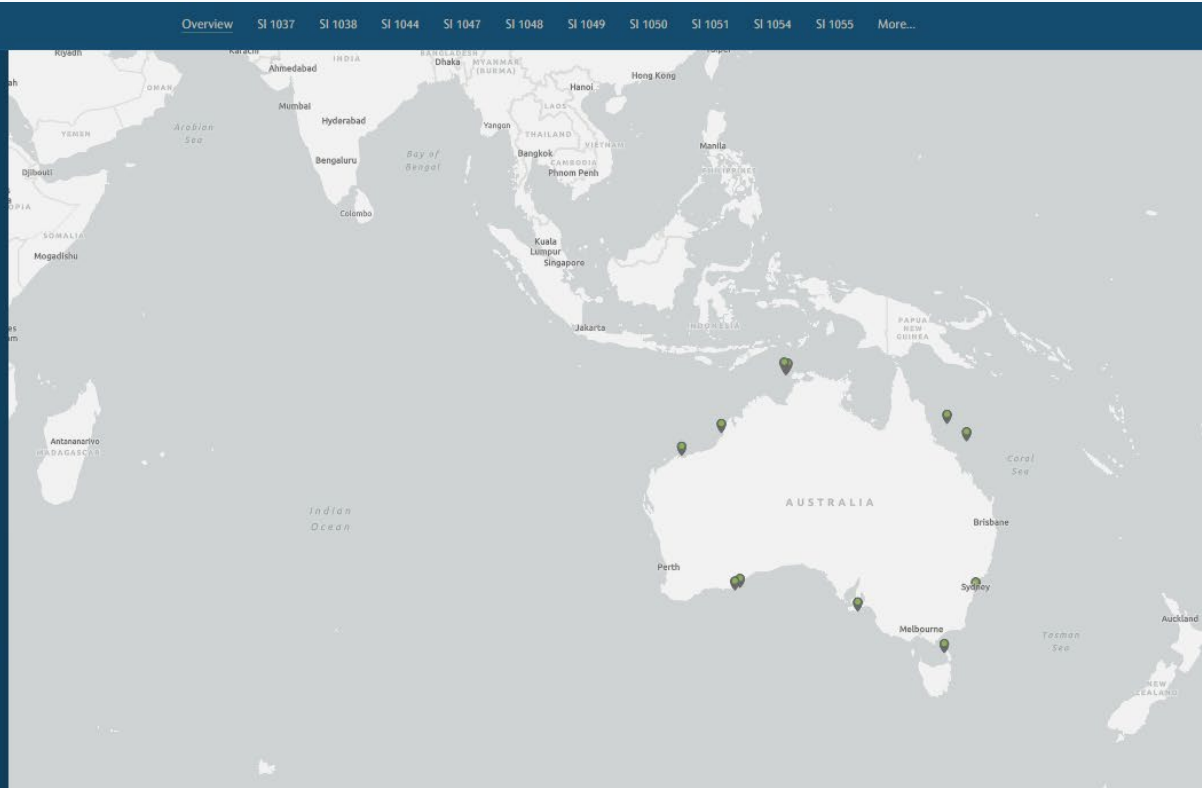
## Overview

HydroScheme 2024 is designed and managed by the Australian Hydrographic Office (AHO) on behalf of the Department of Defence and approved by the Hydrographer of Australia. It provides the plan of hydrographic surveying tasks to be undertaken during the 2024/2025 financial year through the HydroScheme Industry Partnership Program (HIPP).

The HIPP is successfully realising the Australian Government's vision of establishing 'an efficient combination of military and commercial hydrographic and oceanographic survey capabilities' through collaboration with industry and the broader hydrographic surveying community. HIPP tasks are compiled using a risk based approach with the main focus on improving safety of navigation and lowering risk within Australia's Exclusive Economic Zone (EEZ).

Under the HIPP, a panel of pre-approved industry providers are invited to tender to undertake the survey tasks listed in this HydroScheme during 2024/2025.

*Scroll down to view details of individual surveys included in HydroScheme 2024*



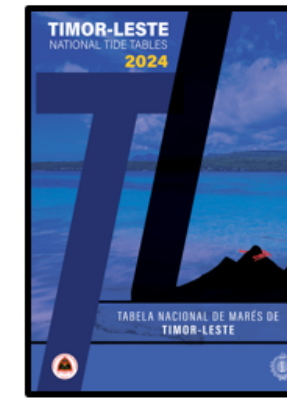
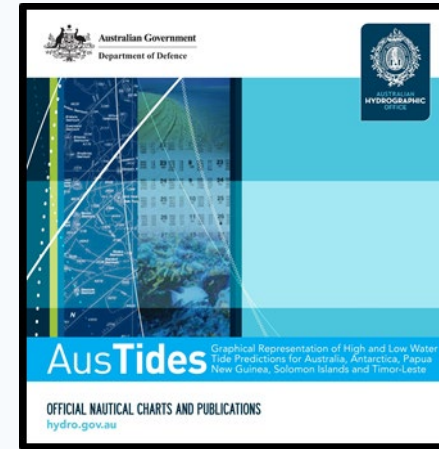
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# Main achievements during the year

- 2024 Australian National Tide Tables were released as a digital (.pdf) download from the AHO website, and via new interactive web service featuring an enhanced user experience that allows specific port discovery with the ability to view and download individual port tidal data
- 2024 National Tides Tables for Papua New Guinea, the Solomon Islands and Timor-Leste have been published.

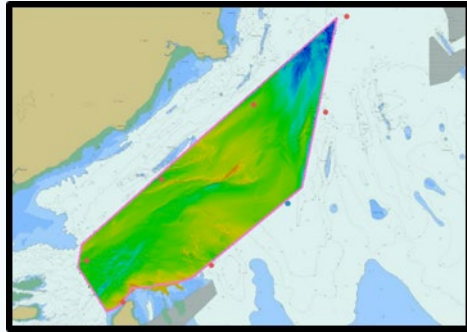


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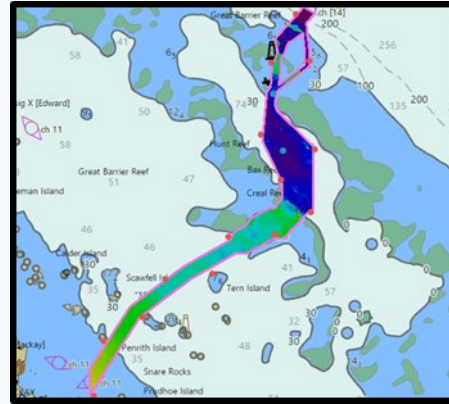
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# Main achievements during the year

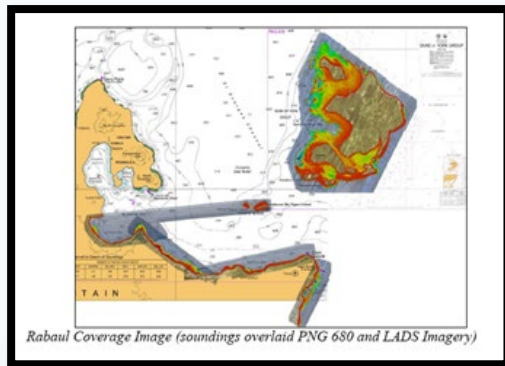
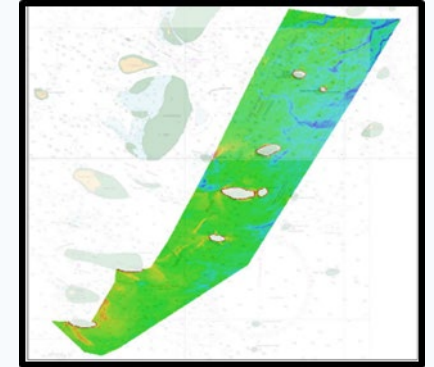


HIPP SI 1027 Clarence Strait to Dundas Strait, NT.

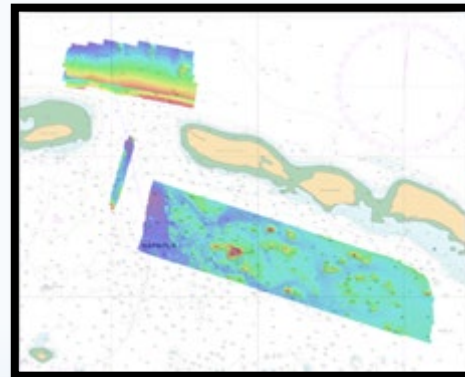


HIPP SI 1029 Hay Point to Hydrographers Passage, QLD

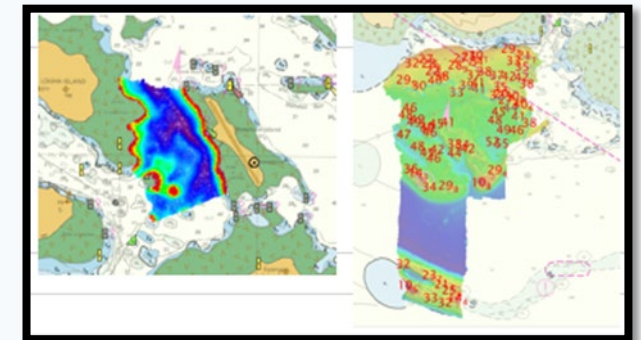
HIPP SI 1018 Great North East Channel QLD.



Rabaul PNG LADS Survey



RAN GI 041 Manus Island, Papua New Guinea



Gizo Island Solomon Island Hydrographic Survey 2019 RAN GI 018

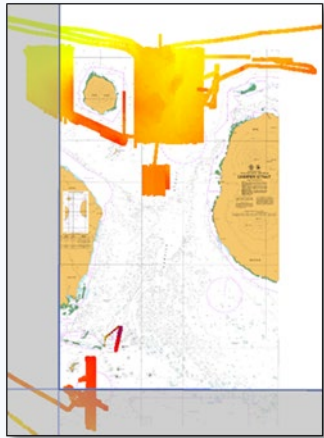


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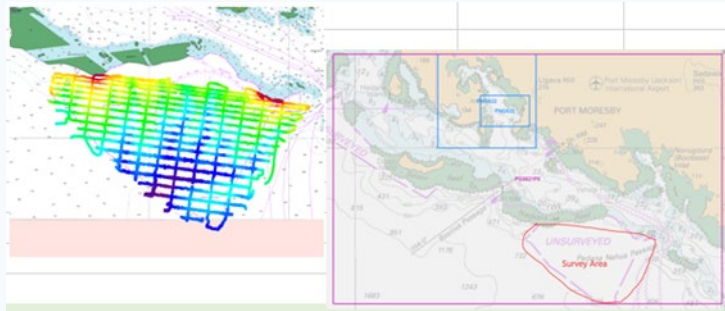
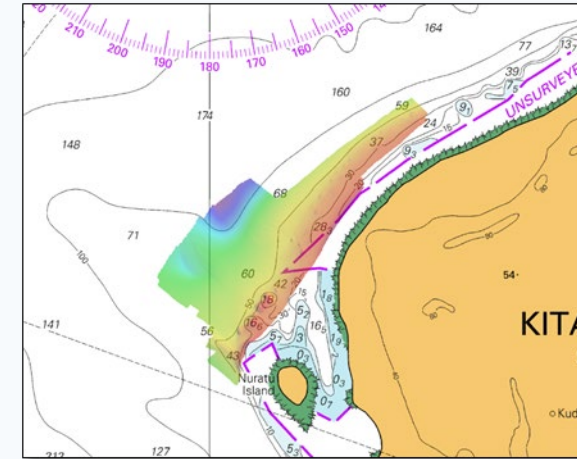


# Main achievements during the year

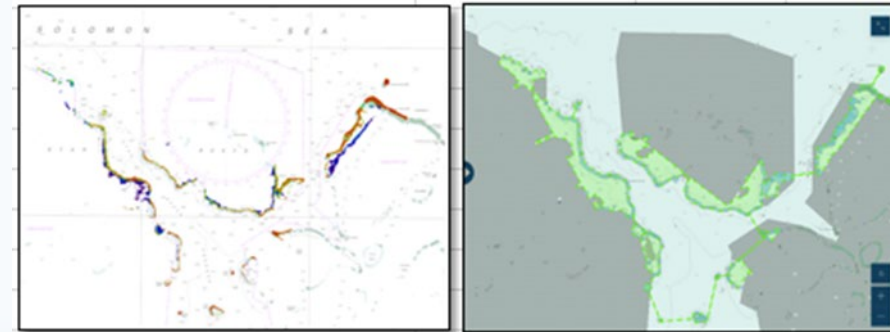


RAN GI 015 -  
Dampier Strait -  
PNG -  
MBES/SBES.  
Dampier Strait  
PNG 2019 RAN  
GI 013 Resupply

RAN HI 630 –  
Kitava Island -  
PNG - MBES



Bathymetry survey of Nadeara Reef, PNG 2021

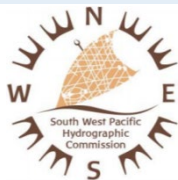


MHY159467-65 Star Reef Passage  
Offshore Northern Province PNG



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# Capacity Building Solomon Islands

## Solomon Islands Navigation Safety Workshop and Tripartite Meeting (Aug 2023)

- AHO attended the Solomon Islands Maritime Authority (SIMA) for the Tripartite meeting between AHO, SIMA and Japan International Cooperation Agency (JICA) in Honiara, Solomon Islands.
- JICA gave an update on the project outcomes to date for Port Noro and Honiara surveys and an outline of project outcomes.
- SIMA and AHO representatives met to discuss priorities for upcoming year on charting and surveying with the aim of raising awareness and support for SIMA and determine charting priorities for Solomon Islands waters for inclusion in next years charting projects



August 2023 Tripartite Meeting, Honiara Solomon Islands



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# Capacity Building – PNG NMSA Workshop

## Papua New Guinea National Maritime Safety Authority (NMSA) Workshop – Aug 2023

AHO attended the Papua New Guinea National Maritime Safety Authority (NMSA) for Awareness Workshop on Hydrography & Maritime Safety Information and National Hydrographic Meeting.

- The Workshop set out to achieve the aim of raising awareness and support for NMSA about hydrography in support of safety of navigation and to enable dialogue with stakeholders on the requirements for a national hydrographic service.
- The Hydrographic meeting focussed on SOLAS conventions, importance of hydrography and Nautical charting.



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# Maritime Geospatial Training Centre

The Maritime Geospatial Training Centre is located at HMAS Penguin in Sydney on the North Shore. MGTC provides training courses in Hydrographic surveying for officers and sailors from Australia and the SW Pacific region under the Defence Cooperation Programme.

The hydrographic training consists of three levels: basic, intermediate and advanced level.

In 2023 the advanced level H2 course ran for 25 weeks and consisted of students from Australia (6), Indonesia (2), New Zealand (1) and Tonga (1) - (see photo). The Intermediate course (10 weeks duration) conducted in the middle of the year was attended by 10 students from Australia. The two Basic courses (12 weeks duration) consisted of students from Australia (18) and Fiji (2).



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# MSDI Progress

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- **MSDI** - Basic technology and infrastructure to support the AHO MSDI has been achieved, and is slowly growing. The biggest challenge we face as a product-centric organisation, is enabling our data holdings for FAIR access, noting our core workflow is in support of navigational chart production.
- The AHO currently utilise two cloud-based infrastructures to support its MSDI capability; our own sovereign capability hosting the following :  
<https://services.hydro.gov.au/site1/rest/services> and  
<https://services.hydro.gov.au/AHOChartIndexPUBLICApplication/> and ESRI's ArcGIS Online which hosts our HIPP HydroScheme.
- Involvement in regional or global MSDI efforts - The AHO is currently member of the SWPHC MSDI WG



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# Conclusion

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Please Note this Australian National Report



THANK YOU



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