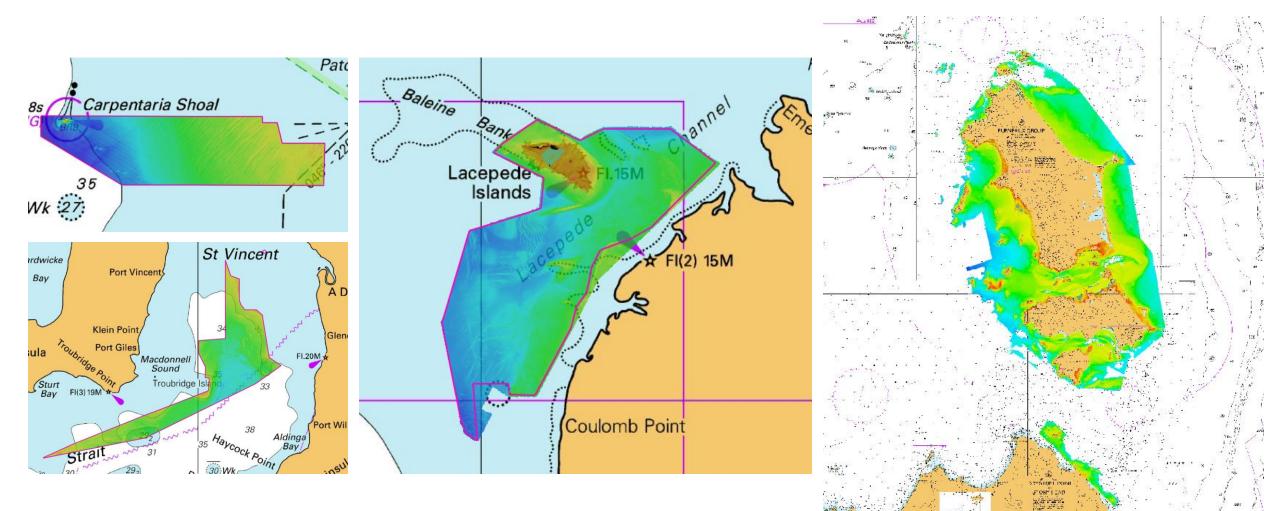


## South West Pacific Update

February 2023

## Hydrographic Industry Partnership Programme





## Fiji Navy and AHO Survey Support













### Position Magazine (August/September 2022)



#### Fugro, PNG's NMSA improve sea navigation safety

Working with Papua New Guinea's National Maritime Safety Authority (NMSA) and with funding from the Asia Development Bank (ADB), Fugro has completed a hydrographic survey to determine a safe channel through the Star Reef Passage. The work is a key initiative contributing to Papua New Guinea's sustainable economic development and will be used to support updated nautical charting and improved coastal zone management.

Fugro's LADS HD+ Airborne Lidar Bathymetry system was deployed along with a team of surveyors from both the company and the NMSA. The data was collected safely and with minimal environmental impact on the sensitive reef environment and local marine activity, and is now set to be used to update nautical charts.

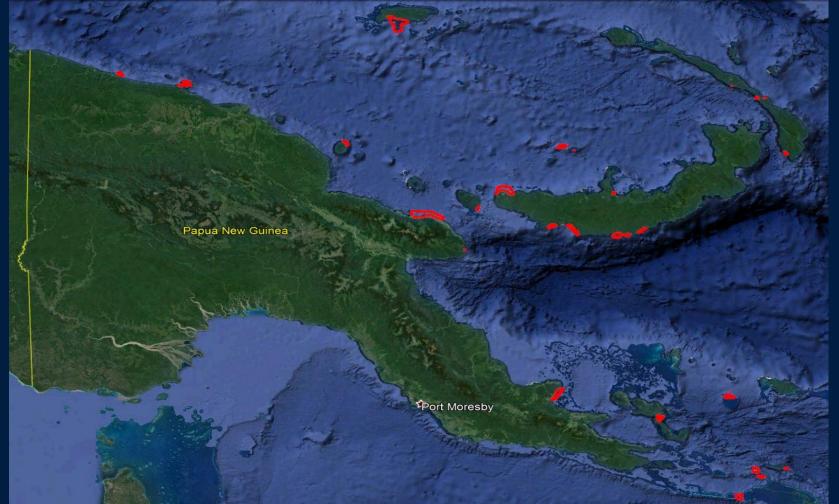
Paul M. Unas, the CEO of NMSA, said he is pleased with the successful outcome of the Star Reefs Passage Survey and reaffirmed NMSA's Commitment to ensuring that PNG's navigable waterways are adequately surveyed to IHO specifications and that nautical charts are updated for the safety of navigation.

## Key Stats 2017/2018

28 Locations 19,604 kms MBES 2,681 kms ALB

550 SVP's acquired320 secchi disk observations188 grab samples

65 Hydrographic Notes 1134 Chart Comparisons Coastline determined by ALB or satellite imagery







2020 Running Propagated for MANYCHAR, MARPITER RAPPORT AND TAXABLE IN PLANE MARPING AND TAXABLE RAPIDLE



ared

11 Survey flights Depth 50-55 meters 180 Chart comparisons 2 Islands confirmed 1 Island disproved 1 Cay disproved Charted wreck found

7 Spatial Information Day 2022

UNBORVEYED

UNSURVEVED

**T**UGRO

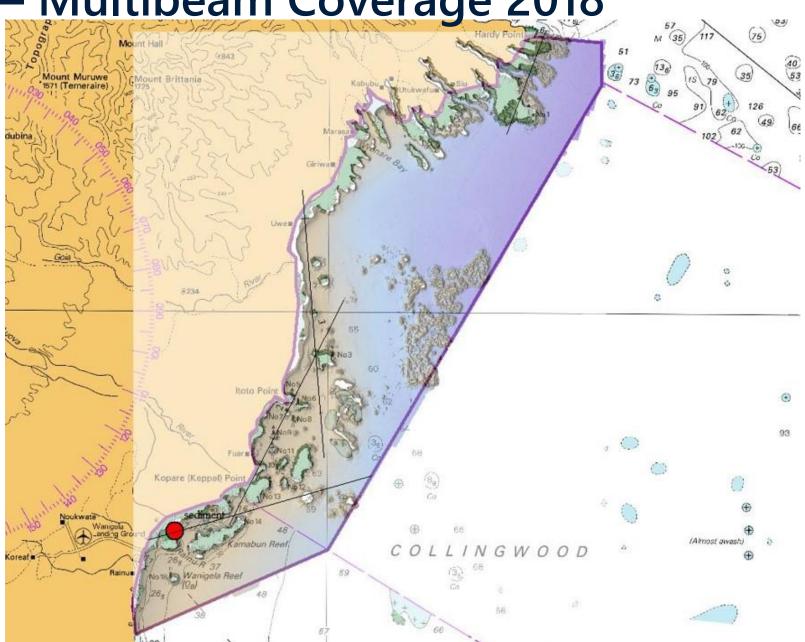
## Collingwood Bay – Multibeam Coverage 2018

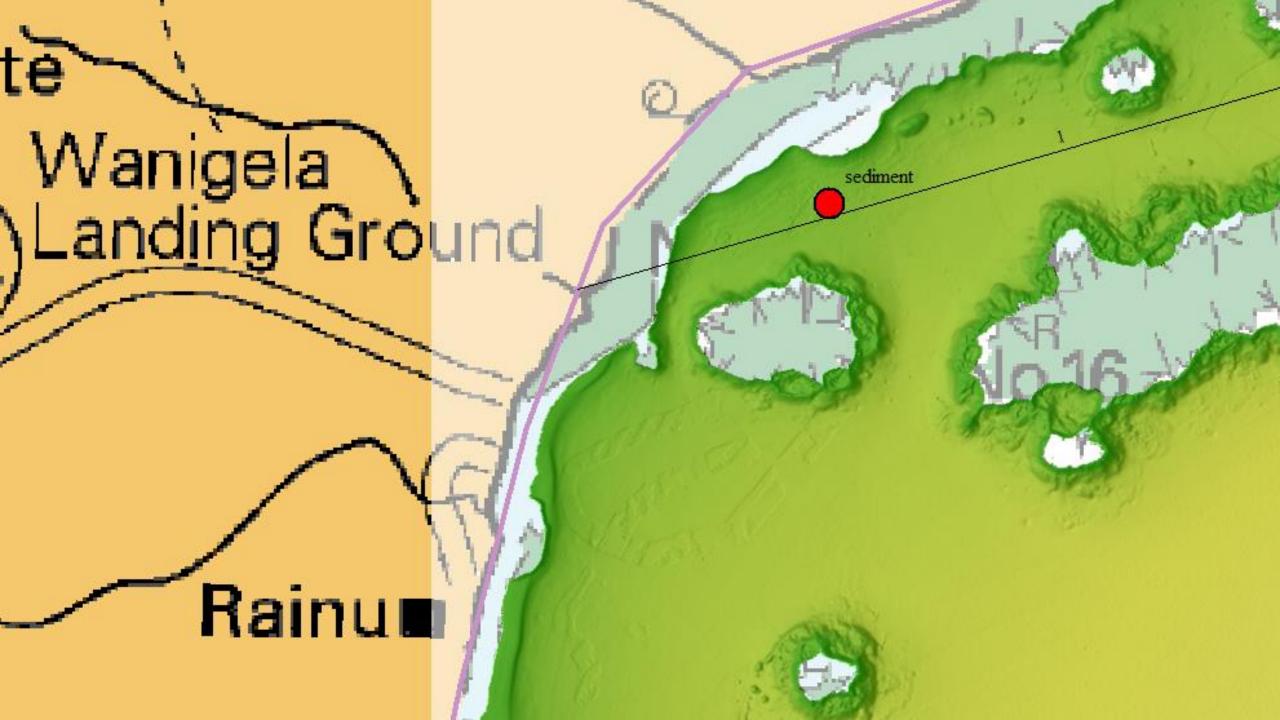
Benchmark lines flown over existing multibeam data

ALB data (2022) agreed well with MB data (2018)

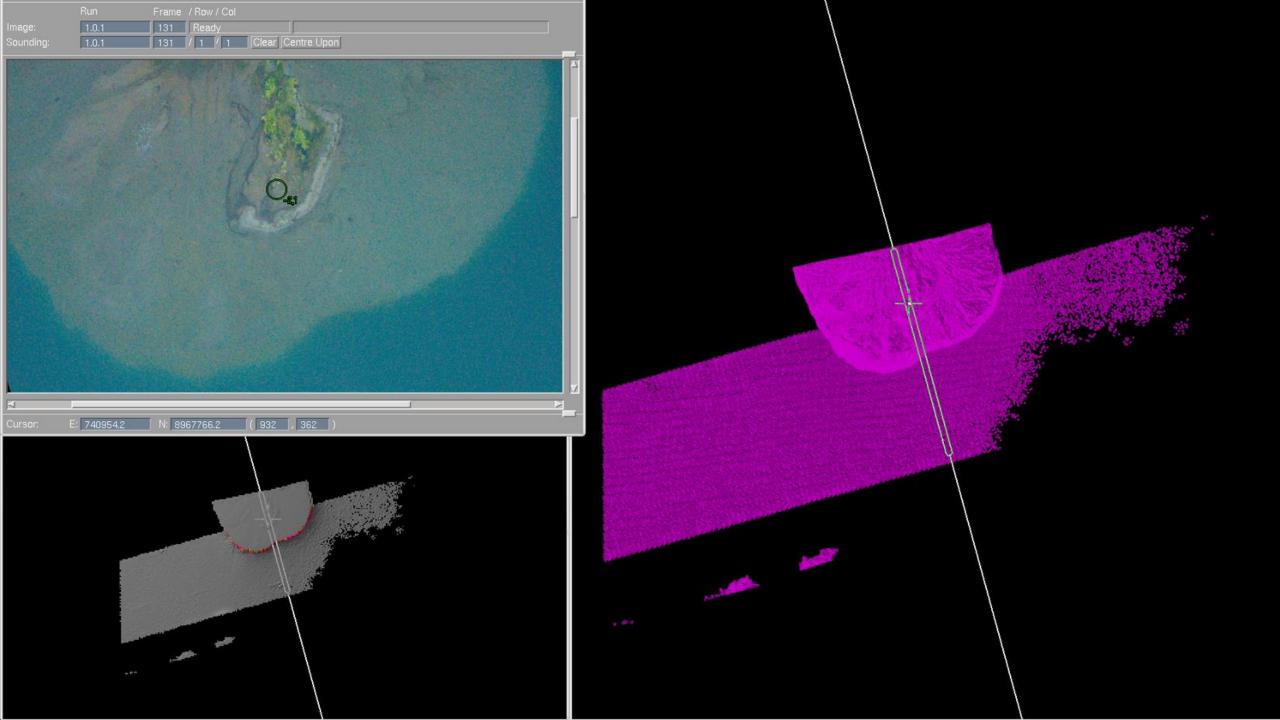
4 lines flown to identify suitable comparison benchmark areas

End of benchmark line #1 shows sediment build up – red dot















Palau

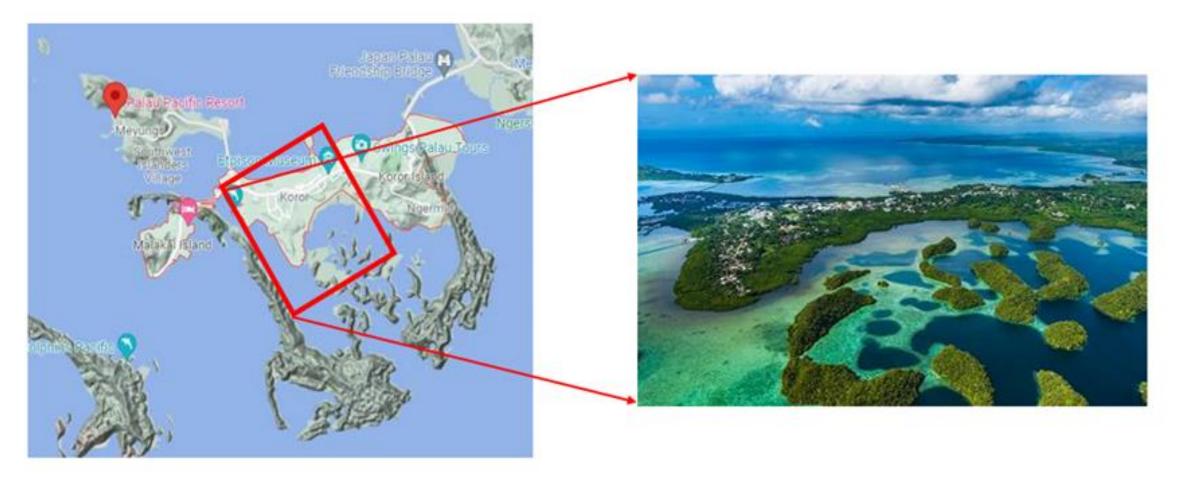


#### Koror to Cairns 3000km





### Koror





## **Client Requirement**

Topographic lidar covering 416km2 of areas of Palau including the near shore to 50m depths up to 200m from the shoreline.

- Standards based on "U.S. Geological Survey National Geospatial Program Lidar Base Specification; Version 2.1"
- QL 2Lidar 2 pts/m2
- RGB Imagery
- Horizontal Datum: WGS84
- Vertical Datum: Mean Sea Level



## **Partnerships and Capacity Building**



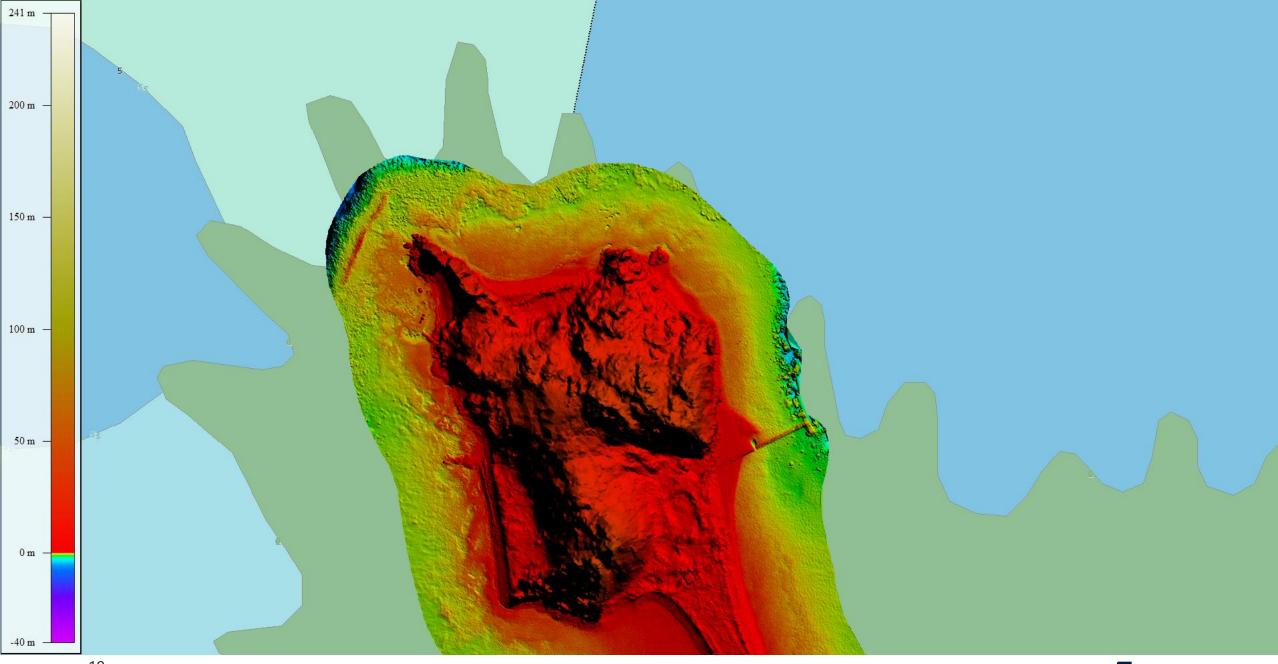




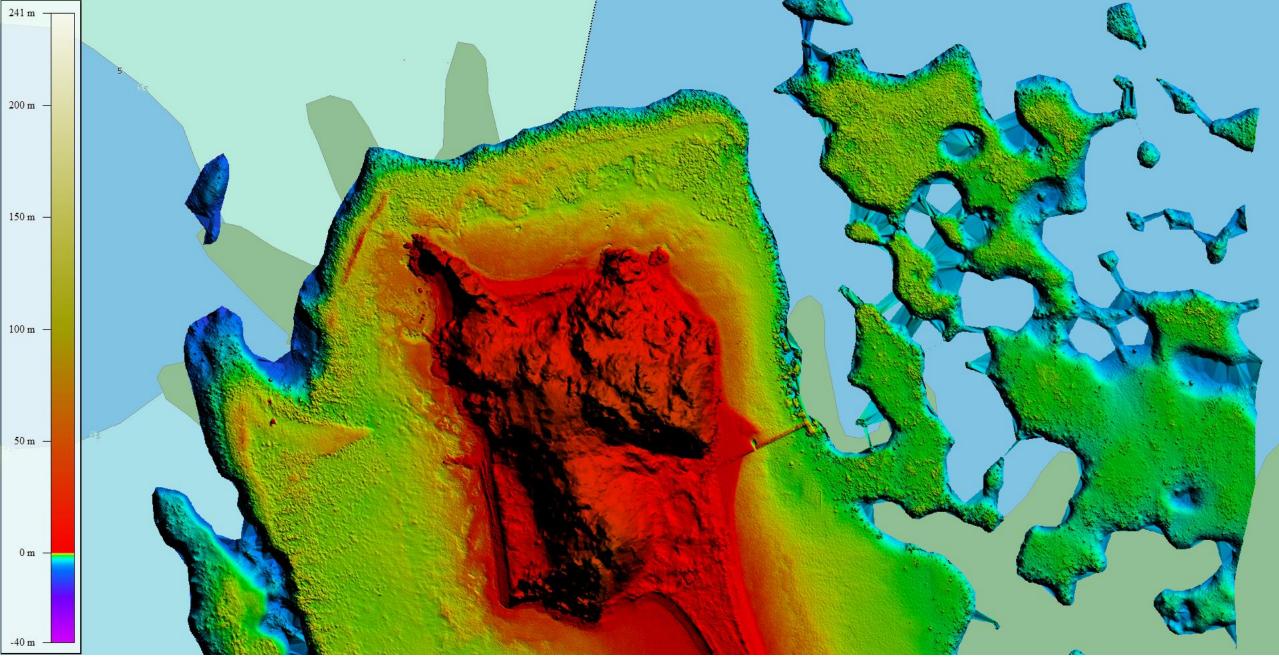




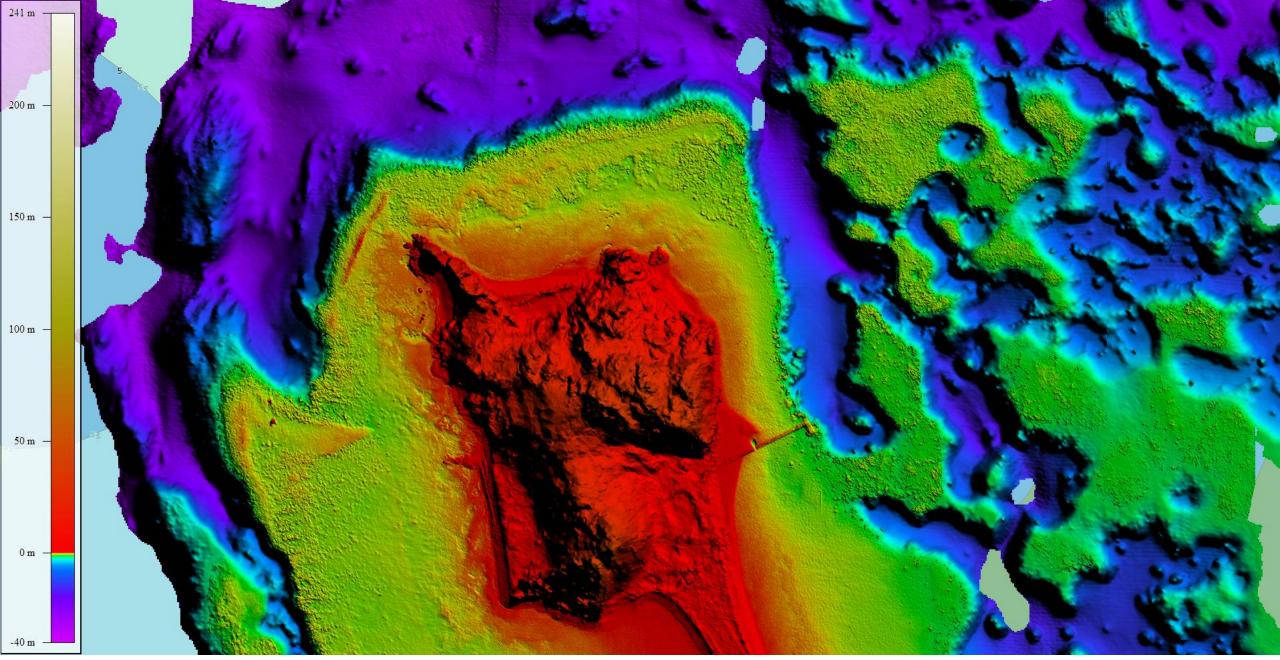














#### **Ocean Decade of Ocean Science for Sustainable Development**











## **2.36 MILLION KM<sup>2</sup>** of in-transit bathymetric data contributed to Seabed 2030



# 

Unlocking **Insights** from **Geo-data**