

# 17<sup>th</sup> Meeting of the Capacity Building Sub-Committee

New Zealand  
Pacific Regional Navigation Initiative (PRNI)



International Hydrographic Organization  
*Organisation Hydrographique Internationale*

South West Pacific Hydrographic Commission



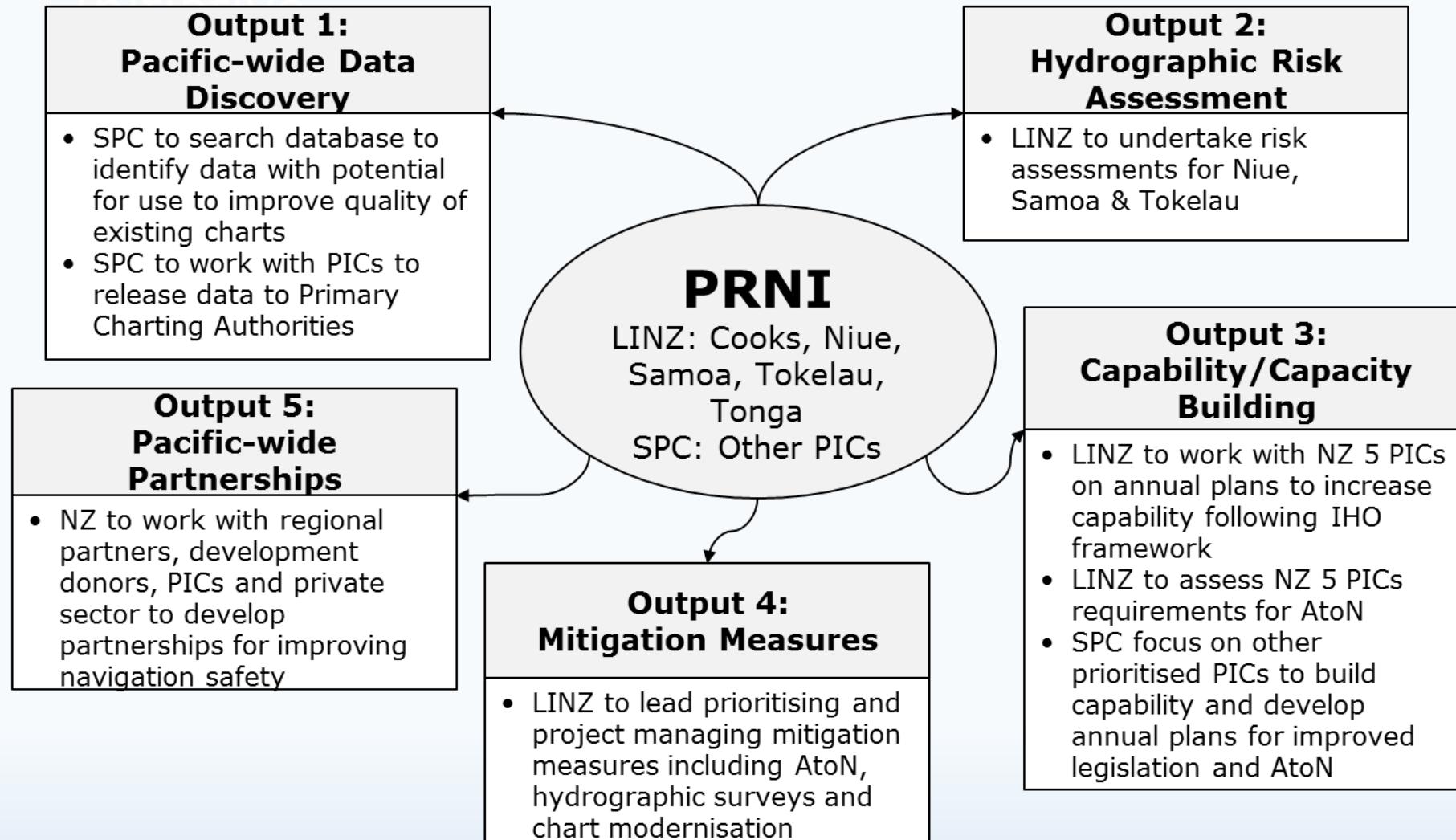
# Pacific Regional Navigation Initiative (PRNI)

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- 2015 - 5 year, \$5 million programme of works
- Partnership with MFAT, LINZ and SPC
- Focus on navigation-related aspects of maritime safety
- Builds on success on SWPRHP – risk assessments in Vanuatu, Tonga and Cook Islands
- January 2018 – an additional \$2.2 million secured
- Programme continues to 2021
- Investigating activities beyond 2021



# Pacific Regional Navigation Initiative (PRNI)



# Bilateral Arrangements



Bilateral Arrangement  
between  
Land Information New Zealand  
and  
Infrastructure Cook Islands  
concerning  
**COOPERATION IN THE FIELD OF HYDROGRAPHY**



Bilateral Arrangement  
between  
Land Information New Zealand  
and  
The Government of Niue  
acting through the Department of Transport,  
Ministry of Infrastructure and the Department of Justice, Lands  
and Survey, Ministry of Social Services  
concerning  
**COOPERATION IN THE FIELD OF HYDROGRAPHY**



Bilateral Arrangement  
between  
New Zealand Hydrographic Authority known as Land  
Information New Zealand  
and  
Ministry of Works, Transport and Infrastructure  
concerning  
**COOPERATION IN THE FIELD OF HYDROGRAPHY**



Bilateral Arrangement  
between  
Land Information New Zealand  
and  
Ministry of Infrastructure (Marine and Ports Division)  
concerning  
**COOPERATION IN THE FIELD OF HYDROGRAPHY**



# Hydrographic Risk Assessments

The image displays five separate reports from the Pacific Regional Navigation program, each featuring the New Zealand Aid Programme logo and the Land Information New Zealand Hydrographic Authority logo.

- PACIFIC REGIONAL NAVIGATION NIUE Hydrographic Risk Assessment:** Shows a map of Niue with a green shaded area indicating risk. Report Number: RNALZ16002, Version: 1.0, Date: 31 July 2016.
- PACIFIC REGIONAL NAVIGATION SAMOA Hydrographic Risk Assessment:** Shows a map of Samoa and the surrounding islands with orange shaded areas. Report Number: RNALZ17001, Version: 1.1, Date: 17 September 2017.
- PACIFIC REGIONAL NAVIGATION TOKELAU Hydrographic Risk Assessment:** Shows a map of Tokelau with blue shaded areas. Report Number: RNALZ17002, Version: V1.0, Date: 15 October 2017.
- SOUTH WEST PACIFIC REGIONAL PROGRAMME TONGA RISK ASSESSMENT:** Shows a map of Tonga with green and orange shaded areas. Report Number: RNALZ26001, Issue: 02, Date: 15 October 2017. It also includes a note: "Supported by the New Zealand Aid Programme".
- SOUTH WEST PACIFIC REGIONAL HYDROGRAPHY PROGRAMME COOK ISLANDS RISK ASSESSMENT:** Shows a map of the Cook Islands with green shaded areas. Report Number: 14NZ262MR, Issue: 02, Date: 15 October 2017. It also includes a note: "Supported by the New Zealand Aid Programme".

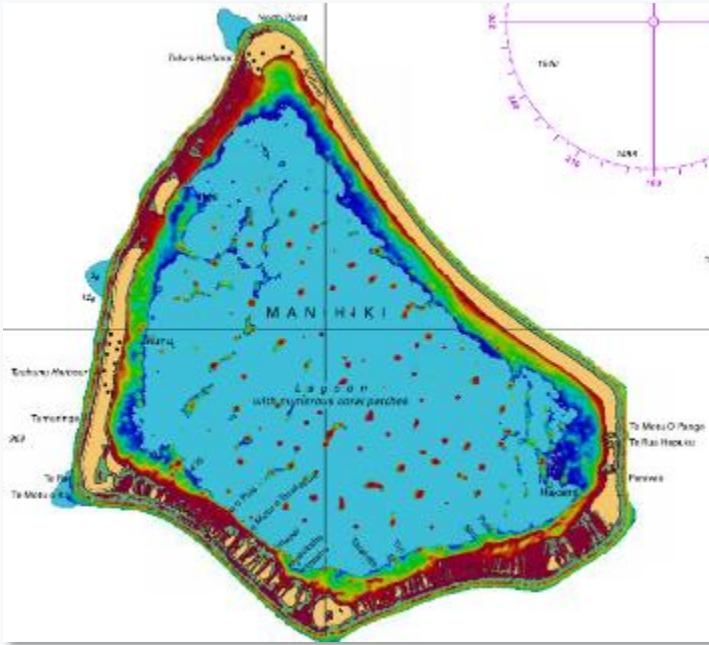


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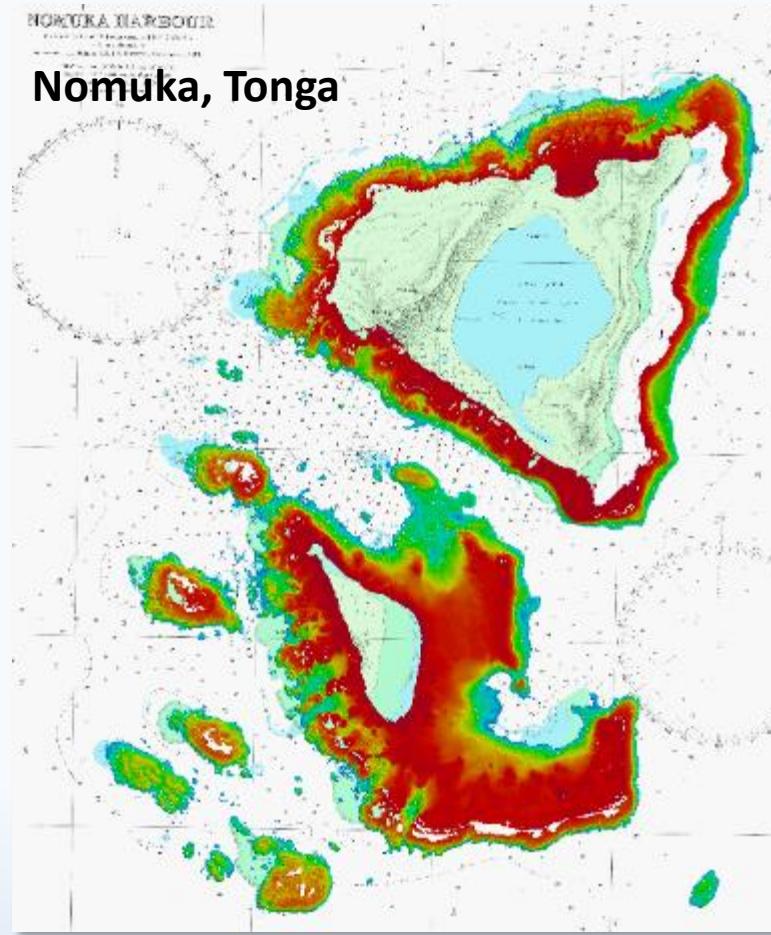


# Surveys

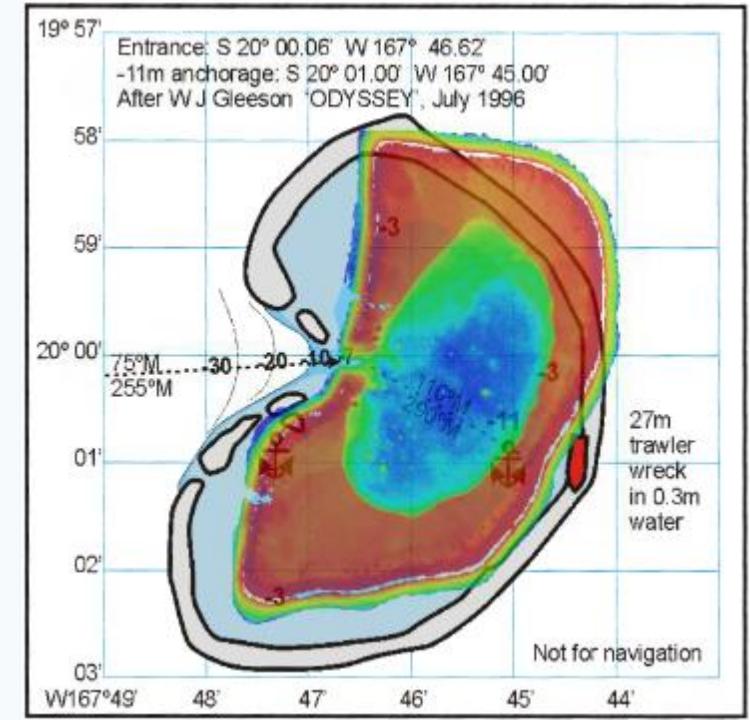
- Satellite Derived Bathymetry (SDB)



Manihiki, Cook Islands



Nomuka, Tonga

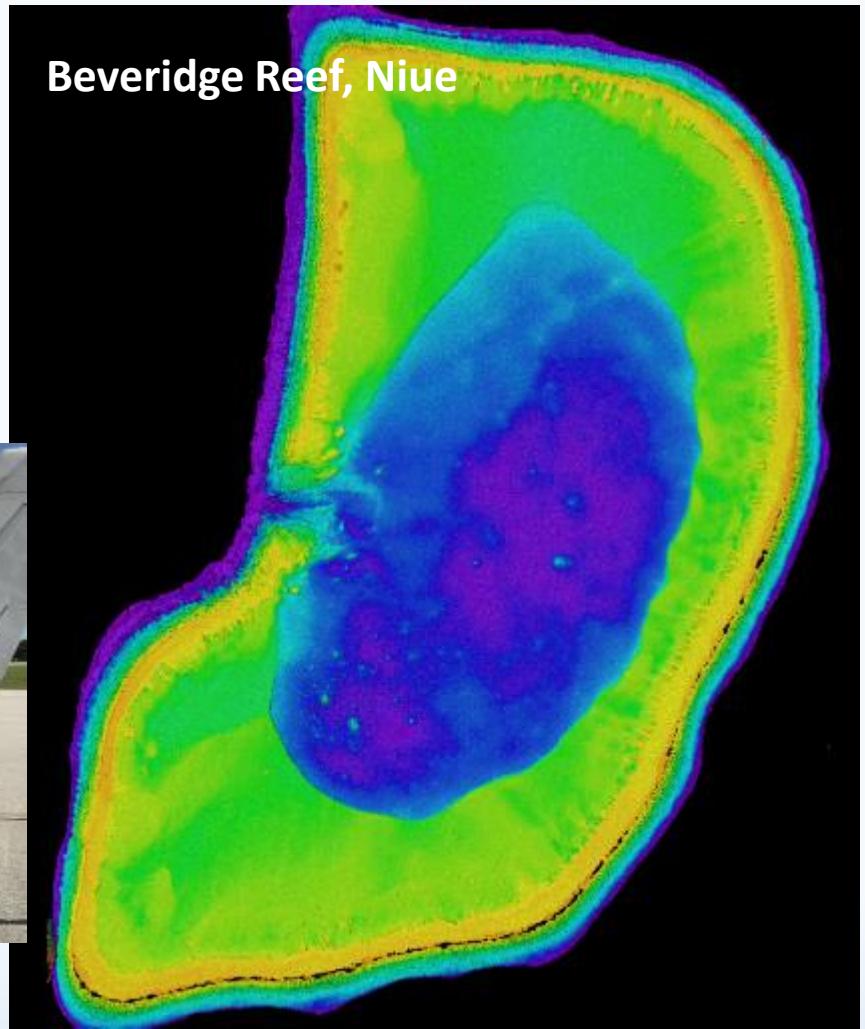
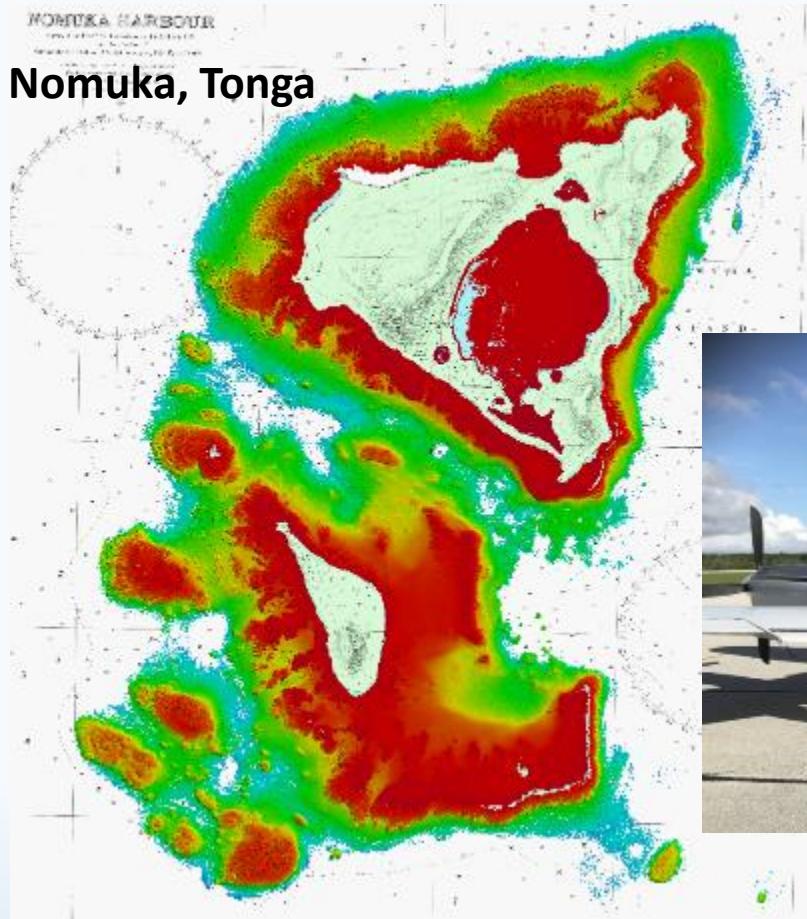


Beveridge Reef, Niue



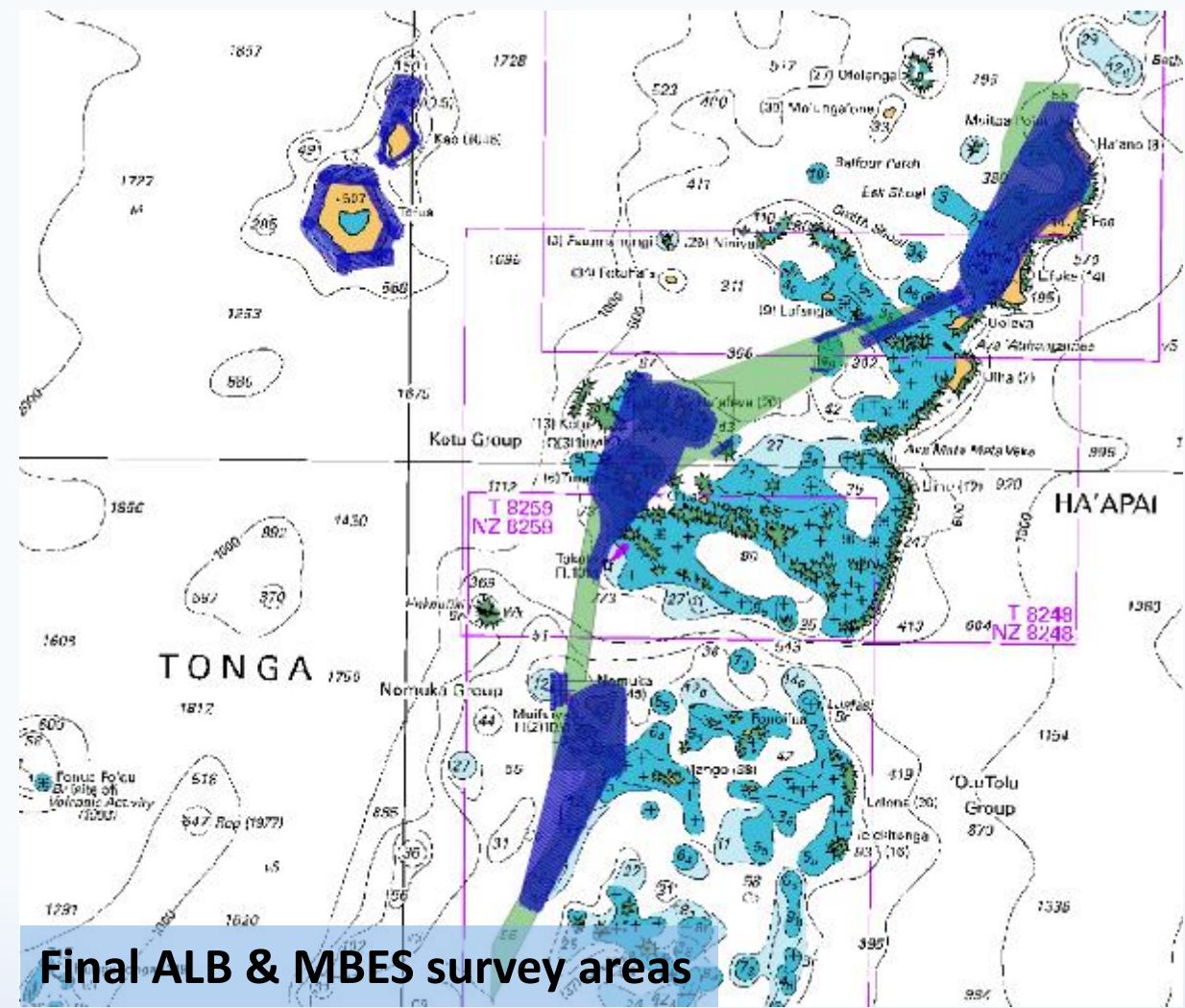
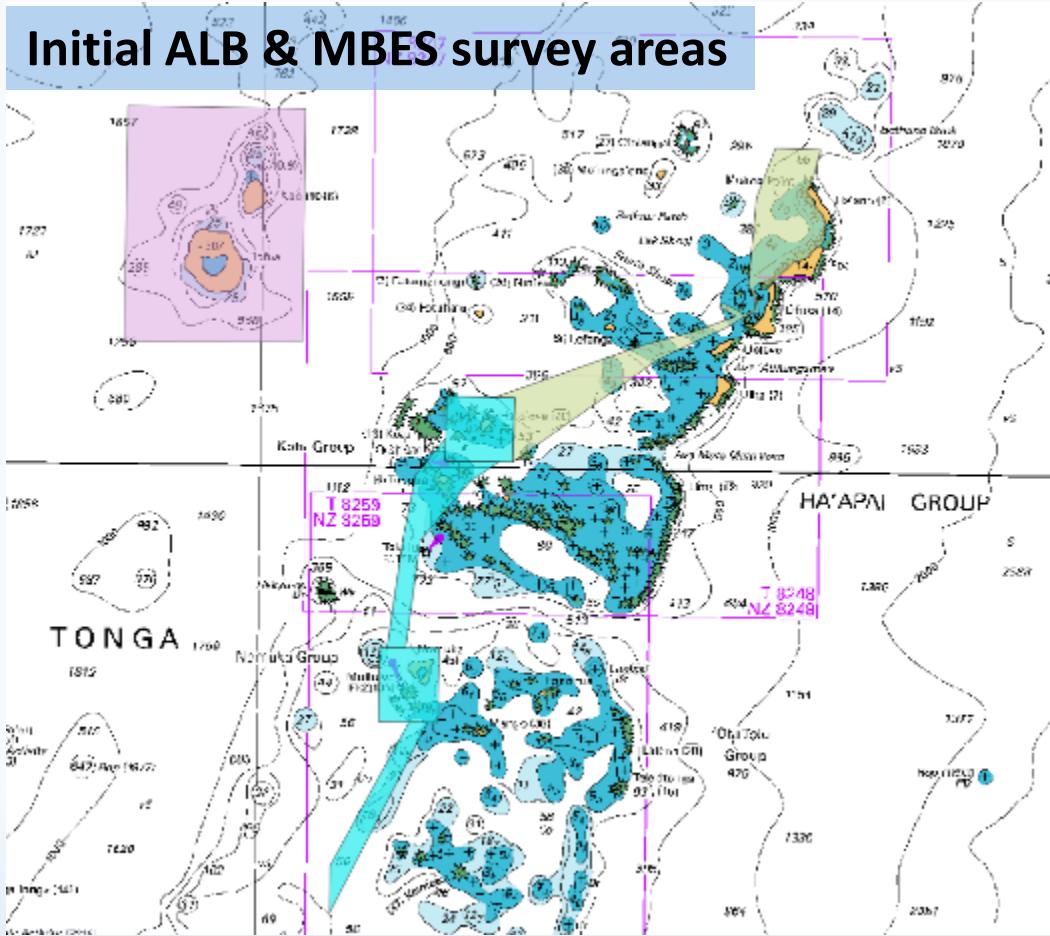
# Surveys

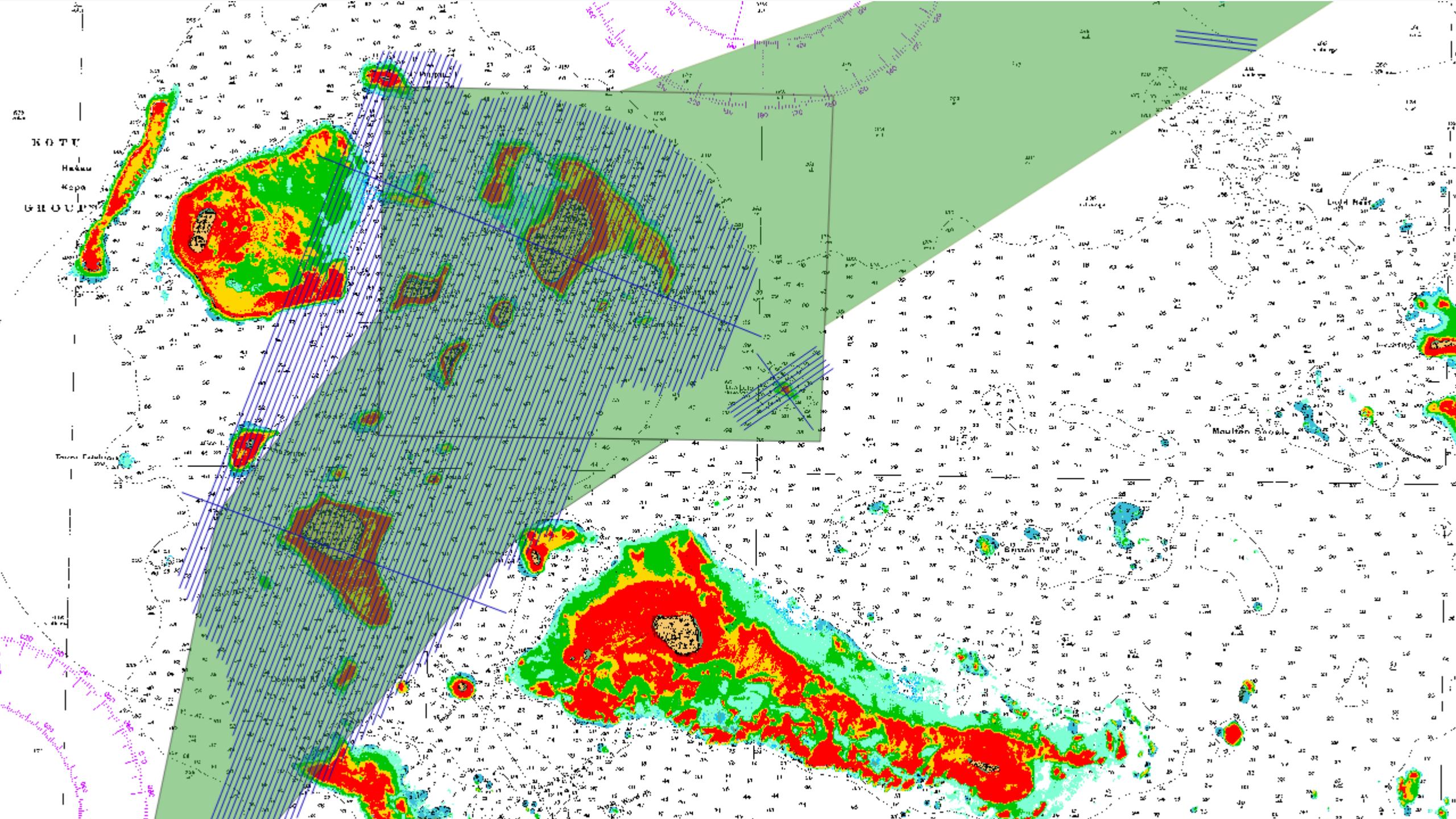
- Airborne Laser Bathymetry (ALB)



# Progress on surveys, charting and MSI

- Surveys: planning (PRNI)





# Surveys

- Multi-Beam Echo Sounder (MBES)



Land Information New Zealand

52 mins ·

The Kingdom of Tonga's Ha'apai archipelago is navigated based on charts from back in 1898. LINZ and New Zealand Ministry of Foreign Affairs and Trade in the Pacific Regional Navigation Initiative are working together to make sure these islands can be safely navigated by cruise and cargo ships. Sosefo Kaitapu - a Graduate Surveyor from Tonga's Ministry of Lands and Natural Resources - and Jeremy McCaffrey from iXblue have recently finished the Tides and Geodetics phase of the project. It's on track to support an upcoming hydrographic survey in the area and help strengthen Tonga's Geodetic Network.



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Like

Comment

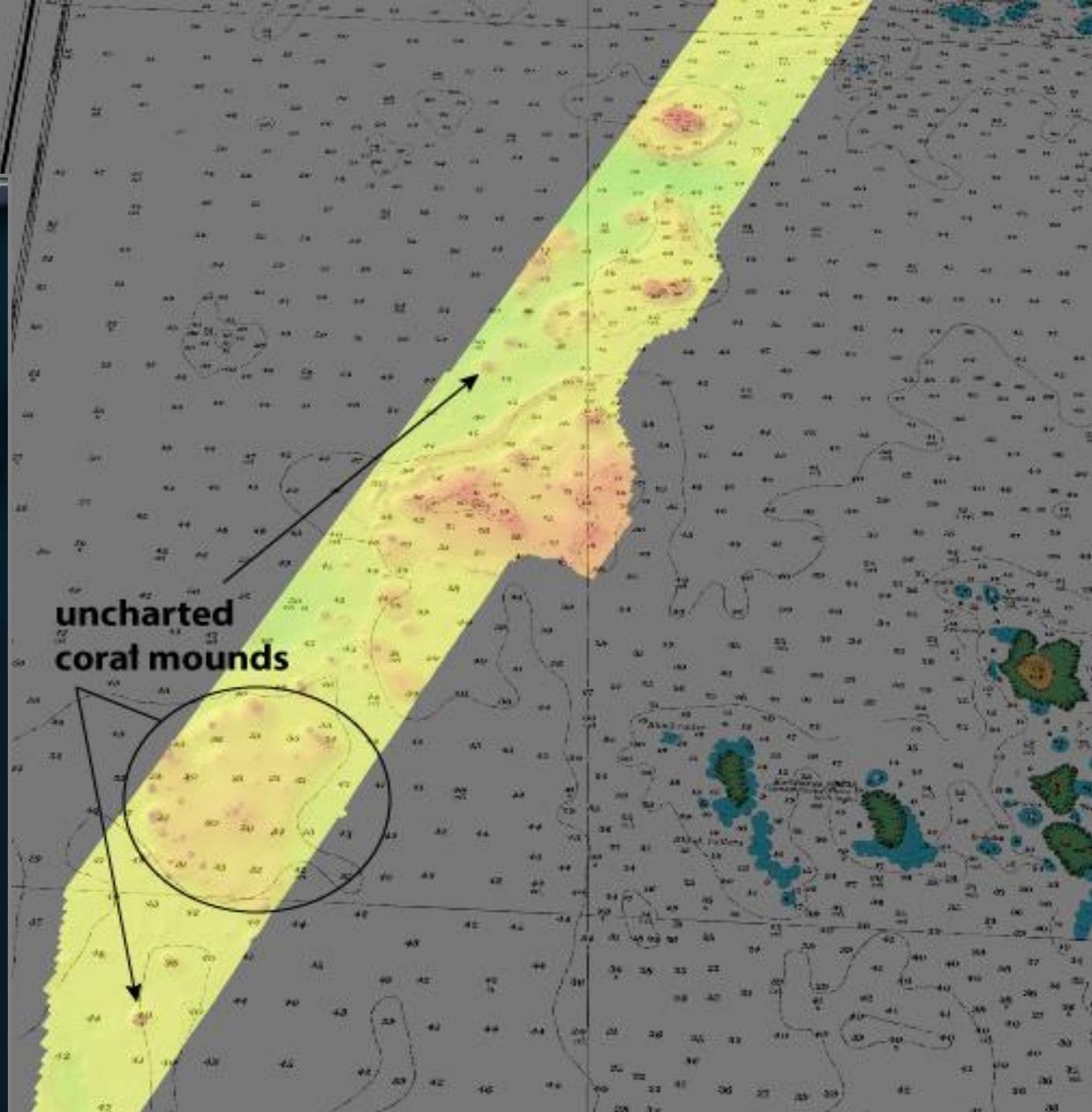
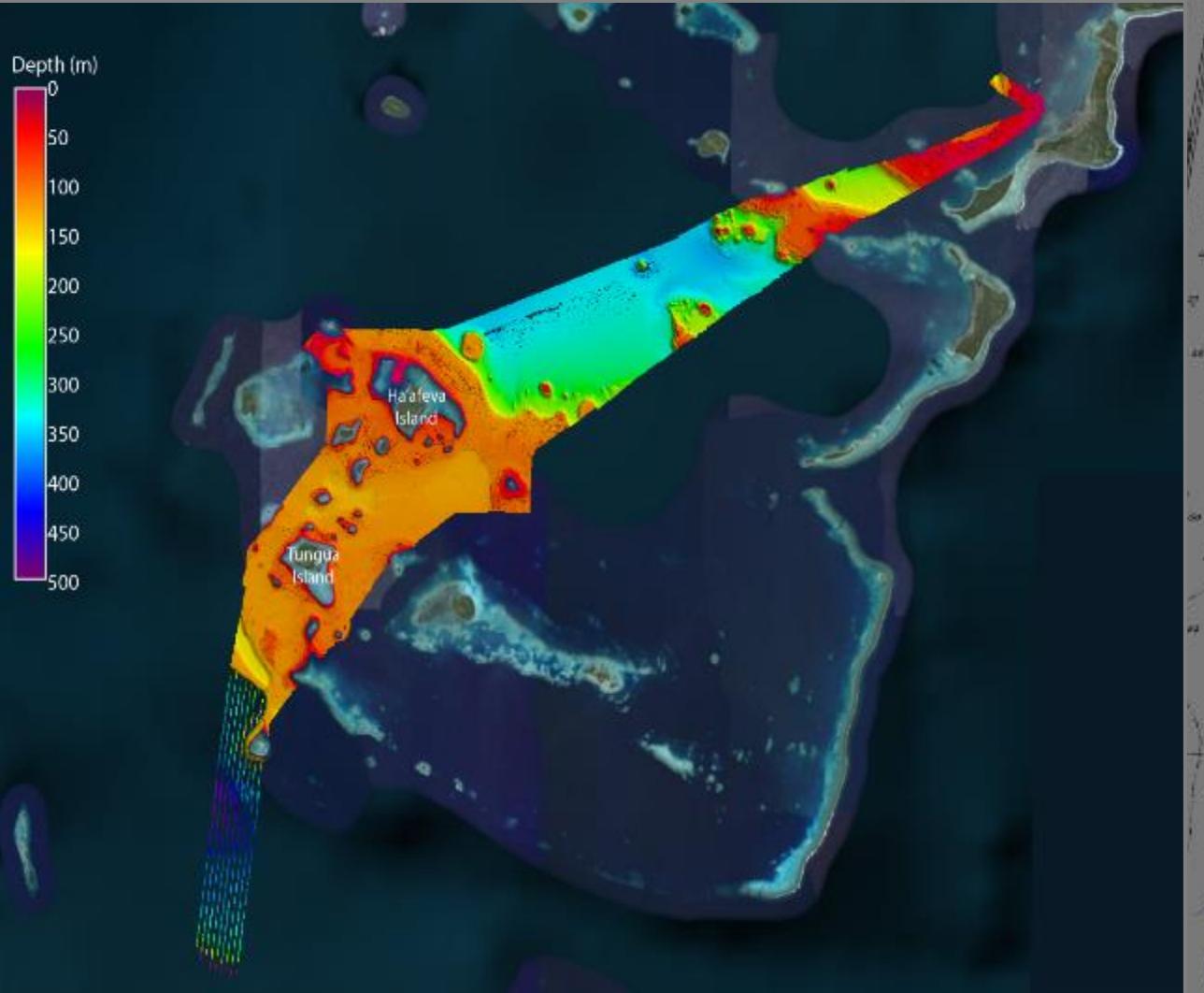
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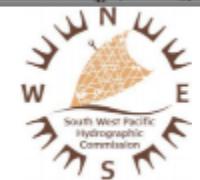
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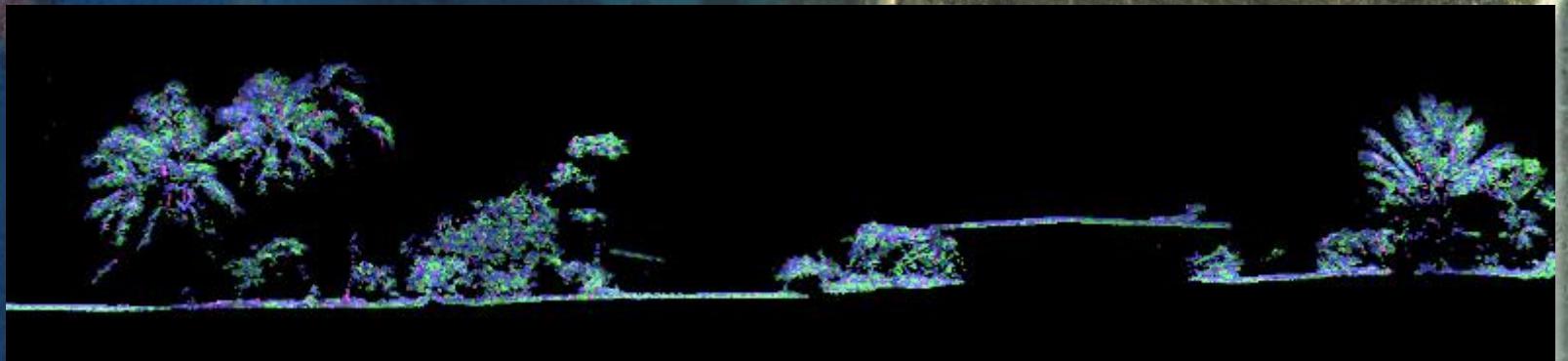


# Surveys



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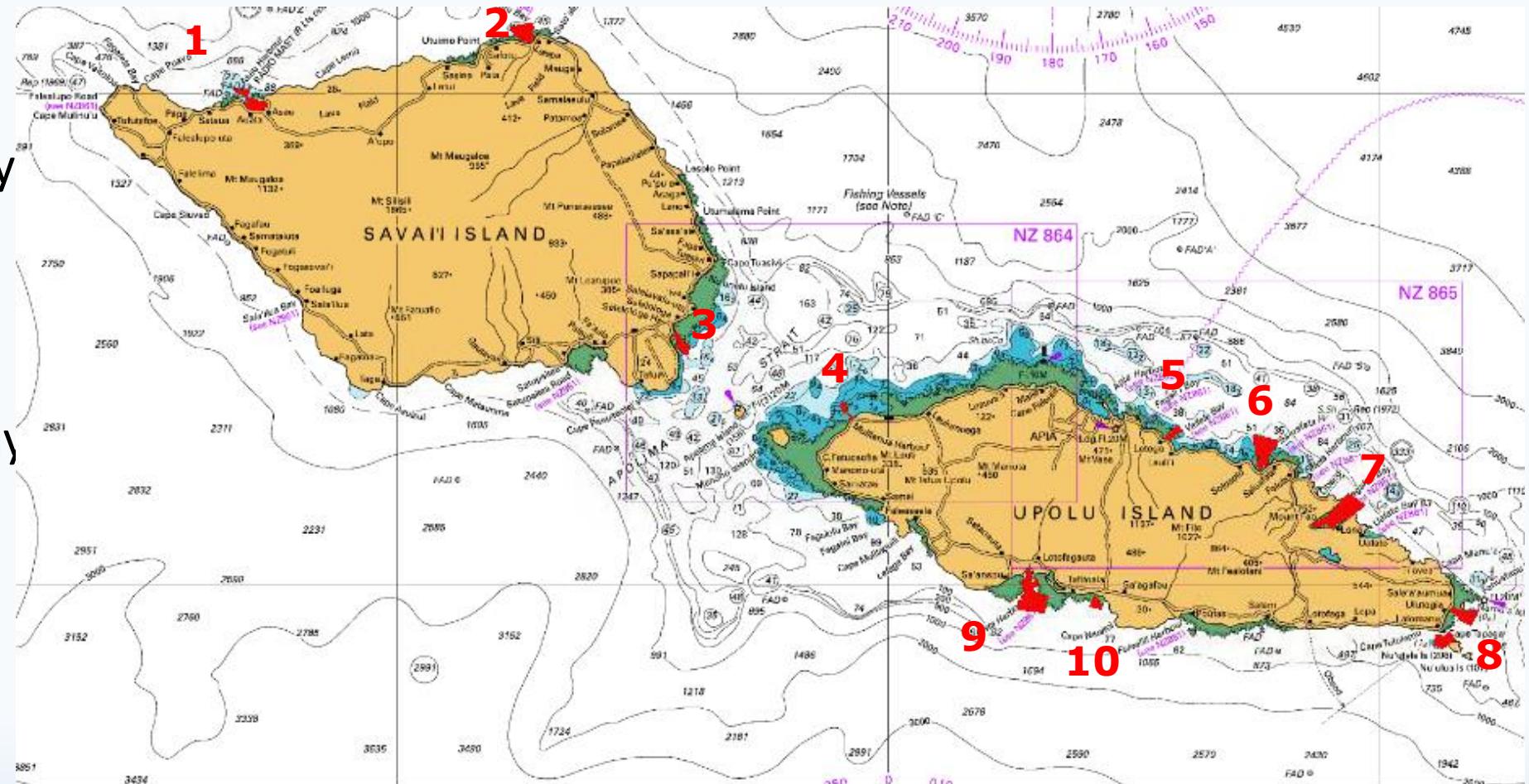


More than bathymetry



# Future surveys

- Samoa MBES
  - Asau
  - Matautu Bay
  - Salelologa
  - Mulifanua
  - Vailele Bay
  - Saluafata Bay
  - Fagaloa Bay
  - Aleipata
  - Safata Bay
  - Siumu Bay



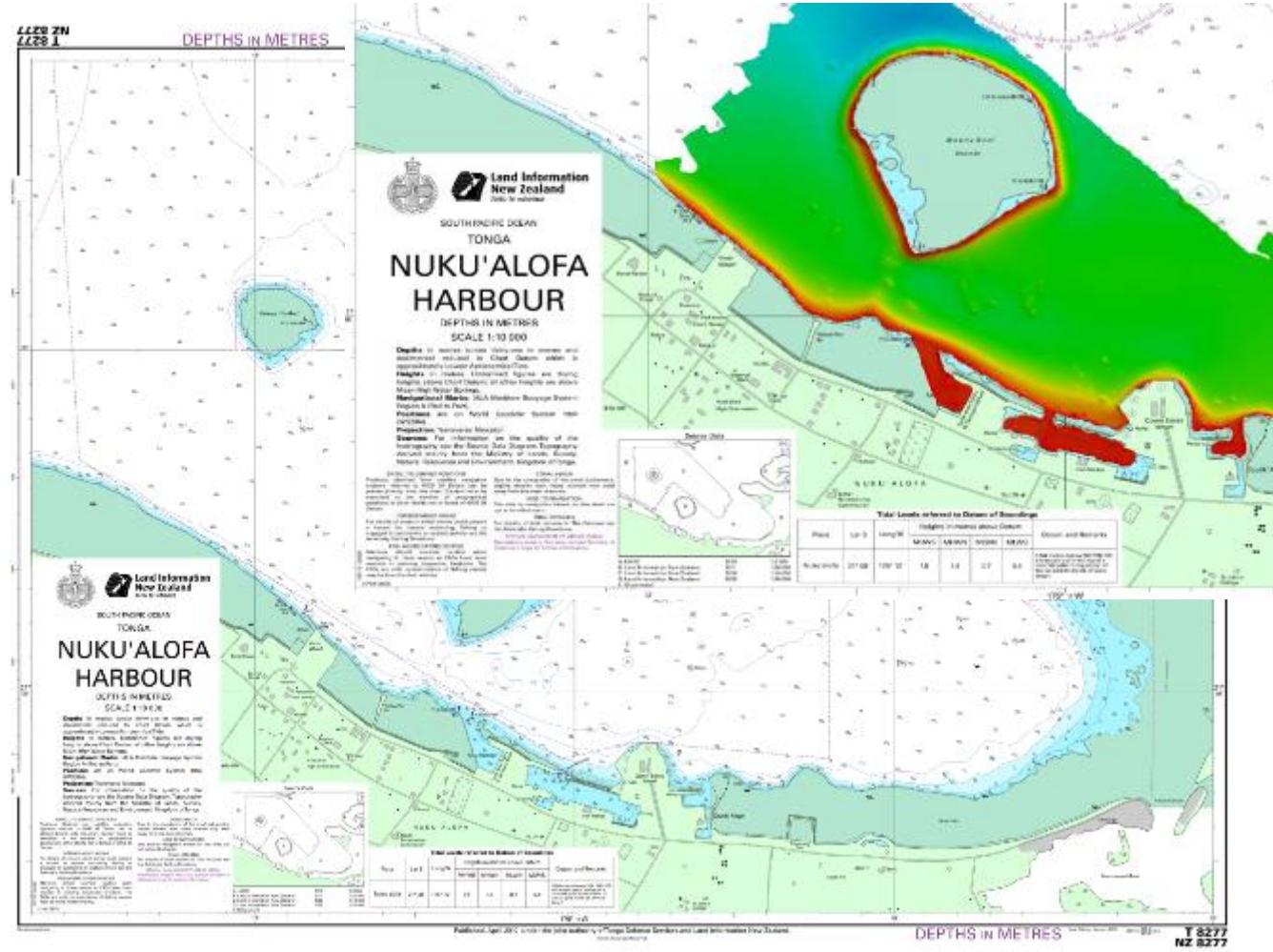
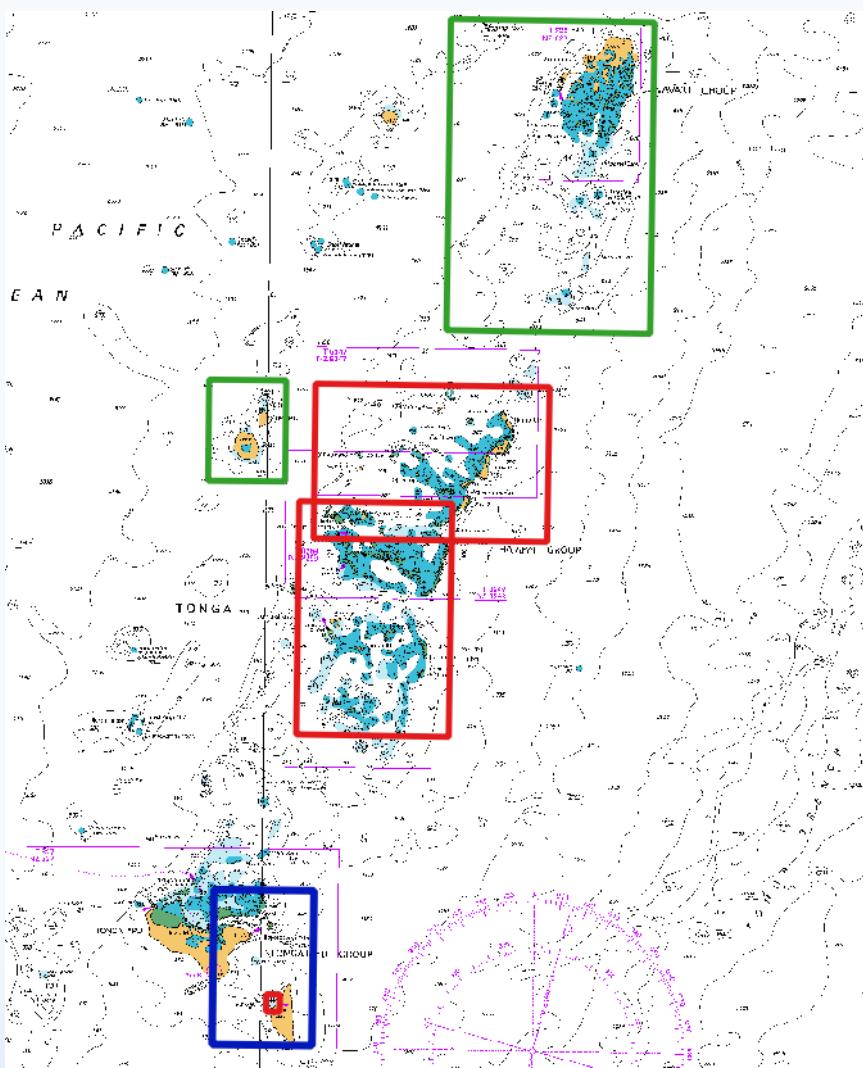
# Chart publication schedule

Nation	Paper Charts		ENCs	
	New Edition	New Chart	New Edition	New Chart
Cook Islands	1 (Jun 18) 2 (Feb 19)	-	19 (Jun 18) 3 (Nov 18) 6 (Jan 19)	-
Niue	-	1 (early 2020)	2 (May 18)	3 (early 2020)
Samoa	4 (Feb 18) 2 (Jun 2021)	4 (Jun 2021)*	2 (Jun 2021)	7 (Jun 2021)*
Tokelau	1 (Mar 19)	-	4 (Mar 19)	-
Tonga	3 (Jan 19) 2 (Apr 19) 1 (May 19) 2 (Jun 2021)	5 (Jun 2020)* 1 (Jun 2021)	1 (Nov 18) 4 (Dec 18) 1 (April 19) 2 (Jun 2021)	6 (Jun 2020)* 2 (Jun 2021)
INT Chart	-	1 (Jul 19)	-	1 (Jun 19)

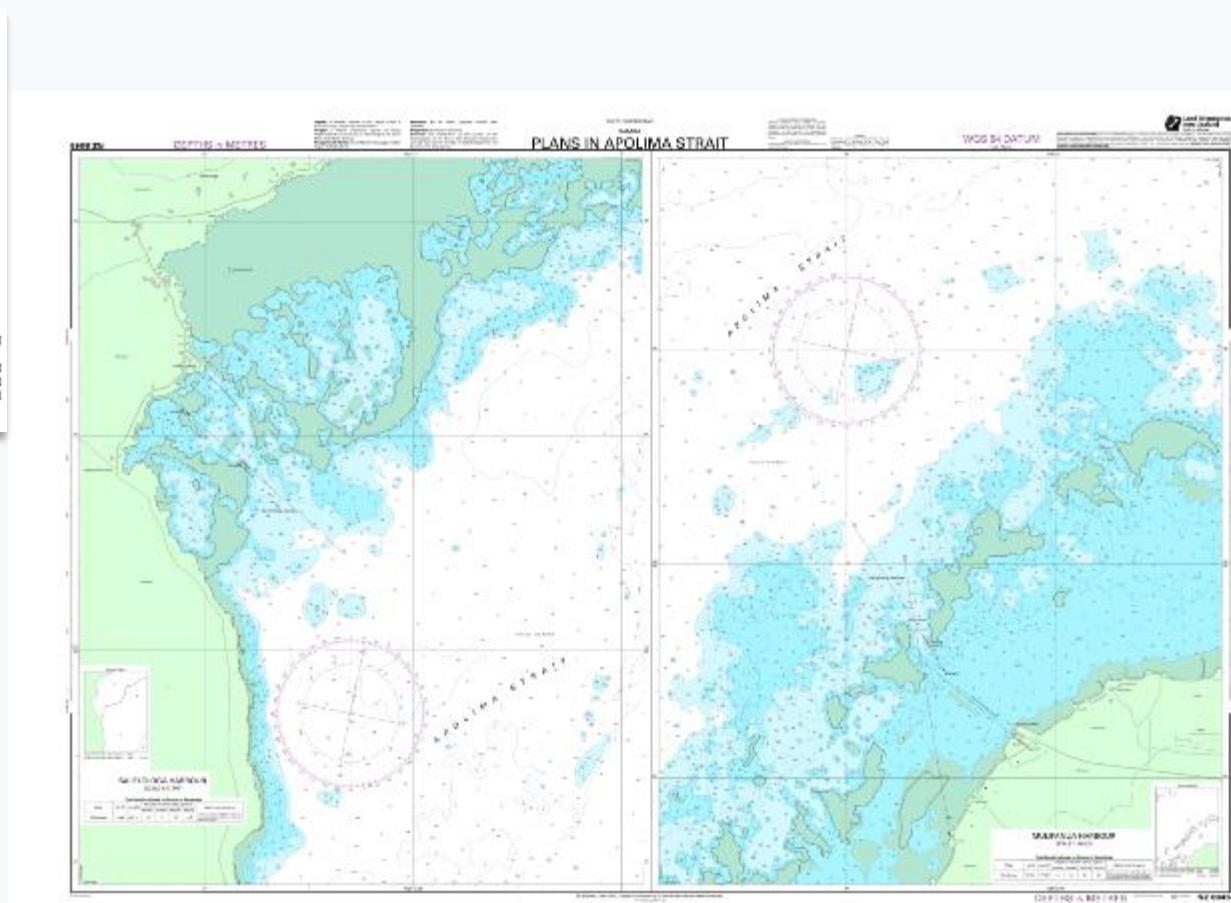
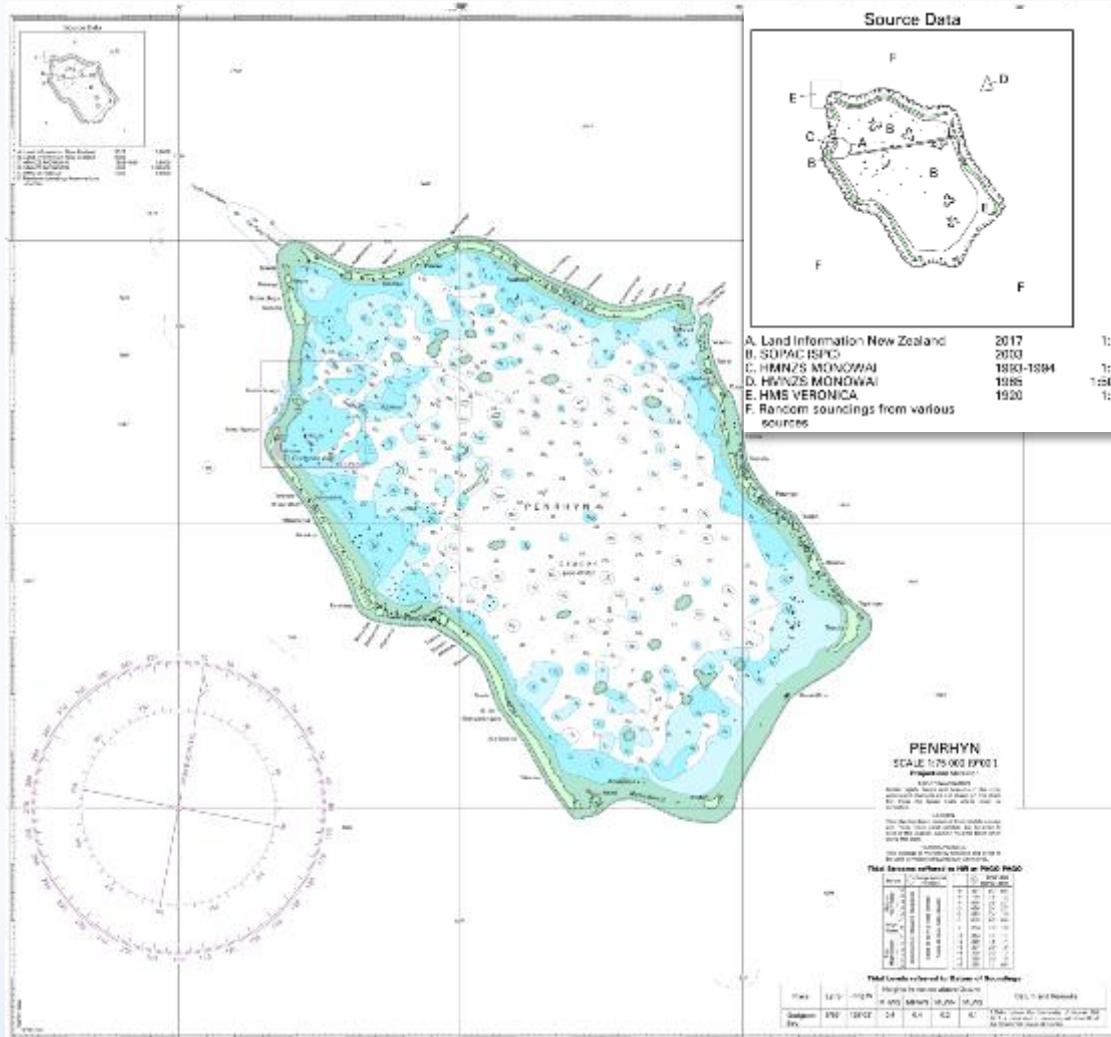
\* New Charts will replace current fathoms/non-WGS84 charts, enabling production of large scale ENC for the first time.



# Tonga NC & NE Charts 19/20



# NE Chart improvements



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# Summary

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- To-date, **45** ENCs & **24** paper charts released incorporating new data (SDB, ALB and MBES) for the Cook Islands, Niue, Samoa, Tokelau and Tonga
- In total, **63** ENCs & **30** paper charts will be released
- Including **19** new ENCs & **12** new paper charts, replacing current fathoms charts, will be published



Thank you

