



## What chart improvements can be expedited in the South Pacific ?

- End Users Perspective
- Example Case Studies
- Safety & Missed Economic Opportunity

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Marine Operations - DPA

# UK Registered, AUS/NZ Guests



**Pacific Explorer** 3400 max

Seasonal Cruising from Auckland, Melbourne, Adelaide, Brisbane and Cairns



**Pacific Adventure** 4540 max

Home ported in Sydney, now in Singapore dry dock.



**Pacific Encounter** 4540 max

Home ported in Brisbane

# AREA OF OPERATION



ADMIRALTY

# Sailing Directions

Pacific Islands Pilot Volume 2

## Vigias

### 1.5

In no part of the world are there so many dangerous reefs, shoals and banks rising abruptly from great depths as in the Pacific Ocean. In addition, a vast number of vigias have been reported and although many have been disproved, others are still charted.

A vigia is a reported danger, usually in deep water, whose position is uncertain or existence doubtful. Many vigias exist within the area covered by this book, and, until disproved must continue to be regarded as potentially dangerous.




United Kingdom  
Hydrographic Office

NP61  
13th Edition  
2017




**NZ 21/24 SOUTH PACIFIC OCEAN - Fiji - Southern Lau Group - Vatoa Island Northeastwards. Shoal**

**1. Chart NZ 14631 (INT 631) [ 043/23 ]**

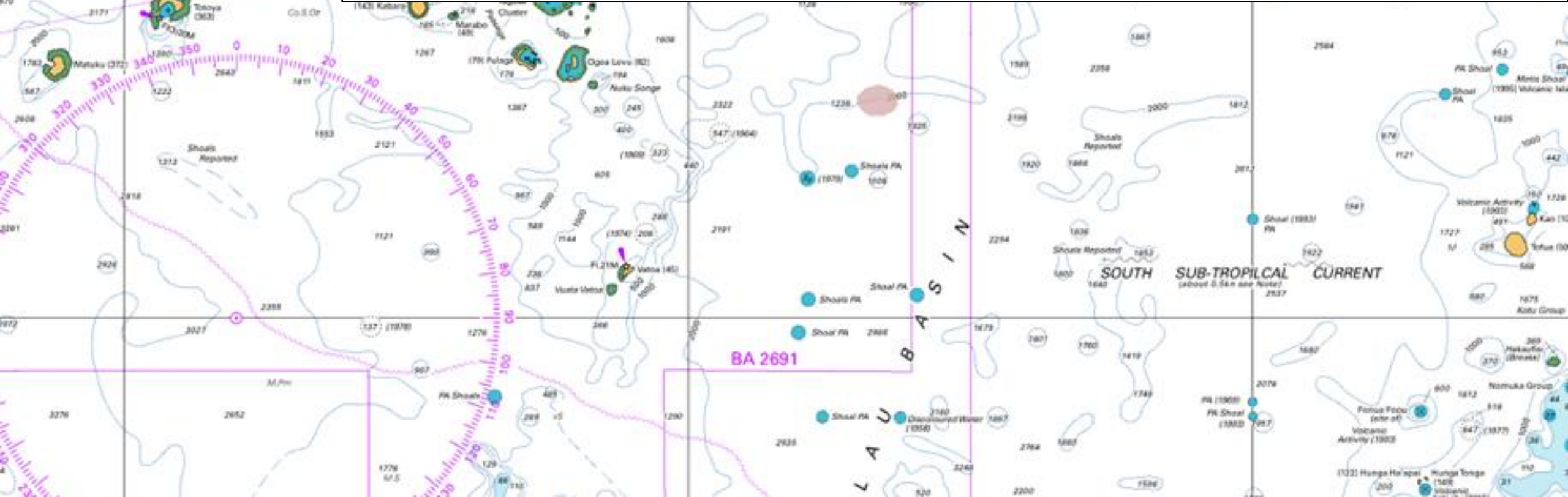
Insert  PA (2023)

19°16'.10S., 177°19'.70W.

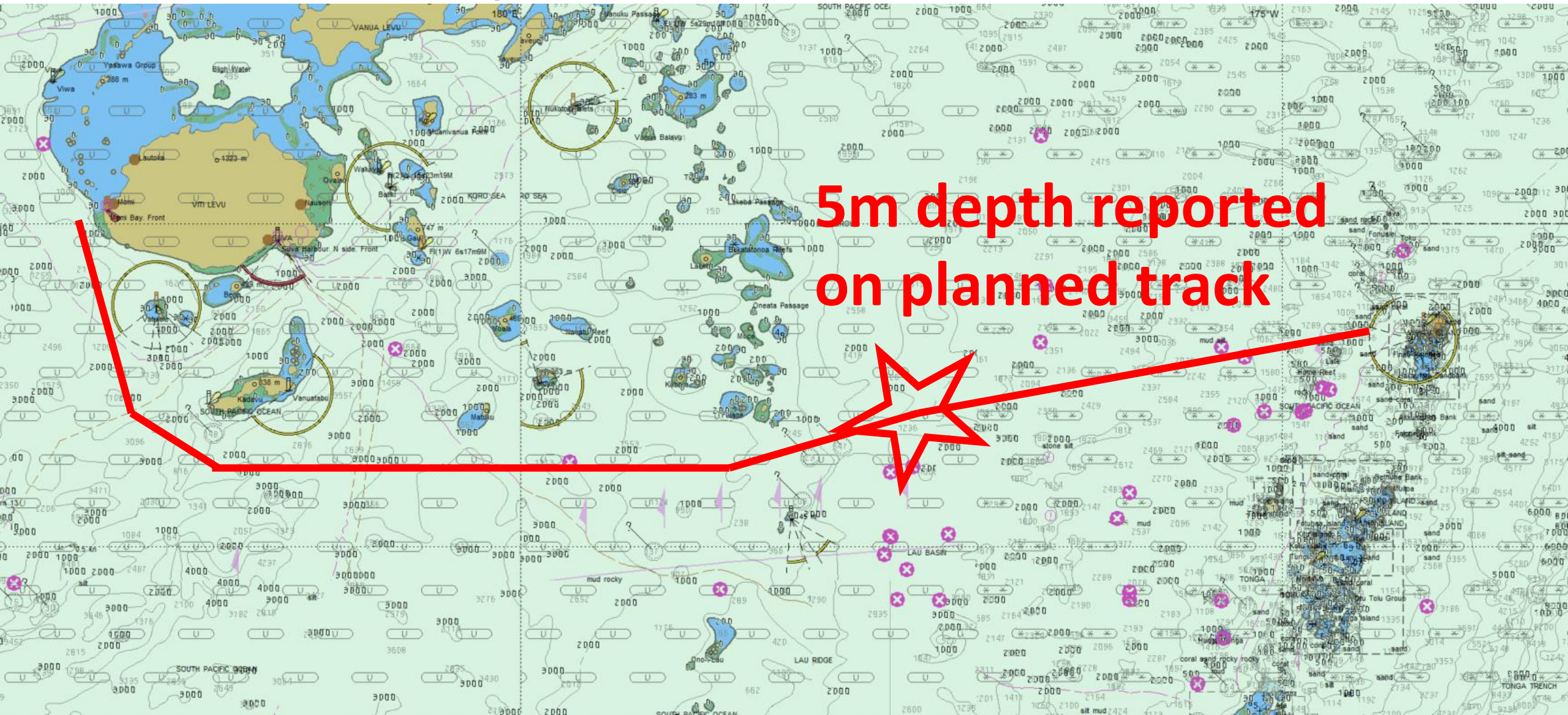
**2. Chart NZ 14638 (INT 638) [ 043/23 ]**

Insert  PA (2023)

19°16'.10S., 177°19'.70W.



# Case Study #1 : NAVIGATING TONGA - FIJI



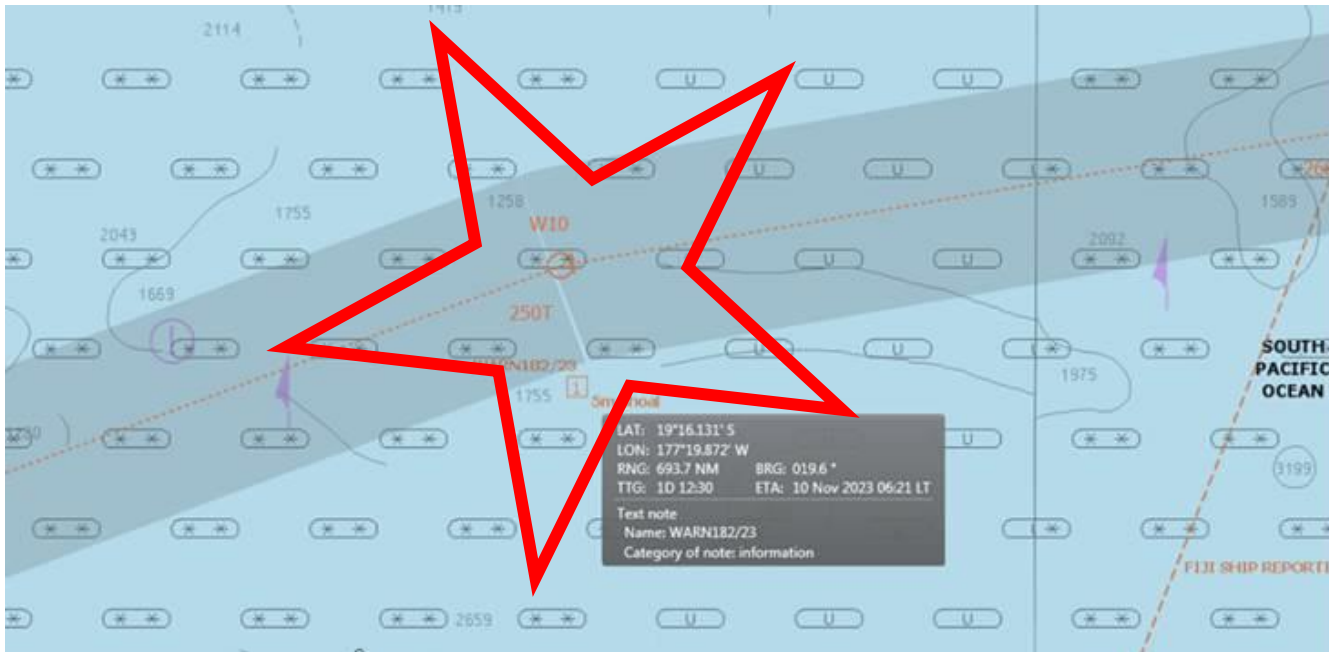
5m depth reported  
on planned track

# PACIFIC EXPLORER POTENTIAL NEAR MISS

Recently Nav warning reported on planned passage between Vava'u, Tonga and Lautoka, Fiji by a small yacht.

Does it really exist and are there others not surveyed ?

New Zealand	1908
Philippines	341
India	229
Australia	132
Indonesia	120
China	106
United Kingdom	99
Fiji	12
Vanuatu	11
Tonga	6
Other	42



## 182/23

NAVAREA XIV WARNING 182/23  
SOUTHERN LAU GROUP  
VATOA ISLAND NORTHEASTWARDS  
CHART BA 2691 (INT 6856)  
SHOAL DEPTH 5 METRES REPORTED 19-16.10S 177-19.72W  
NNNN

# INTER ISLAND TRADING

			CORAL ISLANDER II	MAJURO CHIEF	NEW GUINEA CHIEF	PORT VILA CHIEF	PAPUAN CHIEF	MAJURO CHIEF	NEW GUINEA CHIEF	PORT VILA CHIEF	PAPUAN CHIEF
PACIFIC ISLANDS	MARSHALL ISLANDS	MAJURO		27 - 28 Mar	09 - 10 Apr	27 - 28 Apr	11 - 12 May	28 - 28 May	12 - 13 Jun	28 - 29 Jun	14 - 15 Jul
	KIRIBATI	TARAWA	22 - 23 Apr		11 - 14 Apr		13 - 16 May		14 - 17 Jun		16 - 19 Jul
	SOLOMON ISLANDS	HONIARA	24 - 25 Mar								
	VANUATU	SANTO									
		PORT VILA									
	NEW CALEDONIA	NOUMEA	27 - 28 Mar	01 - 02 Apr	17 - 18 Apr	02 - 03 May	19 - 20 May	01 - 02 Jun	20 - 21 Jun	03 - 04 Jul	22 - 23 Jul
			29 - 29 Mar	03 - 04 Apr	19 - 20 Apr	04 - 06 May	21 - 22 May	04 - 05 Jun	22 - 23 Jun	05 - 06 Jul	24 - 25 Jul
	FJI	LAUTOKA	01 - 01 Apr	07 - 08 Apr	23 - 24 Apr	08 - 09 May	25 - 26 May	07 - 08 Jun	26 - 27 Jun	08 - 09 Jul	28 - 29 Jul
		SUVA	02 - 03 Apr	08 - 09 Apr	24 - 26 Apr	09 - 11 May	26 - 28 May	08 - 10 Jun	27 - 29 Jun	10 - 11 Jul	29 - 31 Jul
	TONGA	NUKU ALOFA	05 - 05 Apr	11 - 12 Apr	27 - 28 Apr	12 - 13 May	29 - 30 May	11 - 12 Jun	30 - 01 Jul	13 - 13 Jul	01 - 02 Aug
SAMOA	APIA	07 - 07 Apr	13 - 15 Apr	29 - 01 May	14 - 16 May	31 - 02 Jun	14 - 15 Jun	02 - 04 Jul	15 - 17 Jul	03 - 05 Aug	
AMERICAN SAMOA	PAGO PAGO	07 - 08 Apr	14 - 16 Apr	30 - 02 May	16 - 17 May	01 - 03 Jun	15 - 16 Jun	03 - 05 Jul	16 - 17 Jul	04 - 06 Aug	
FRENCH POLYNESIA	PAPEETE	12 - 13 Apr									

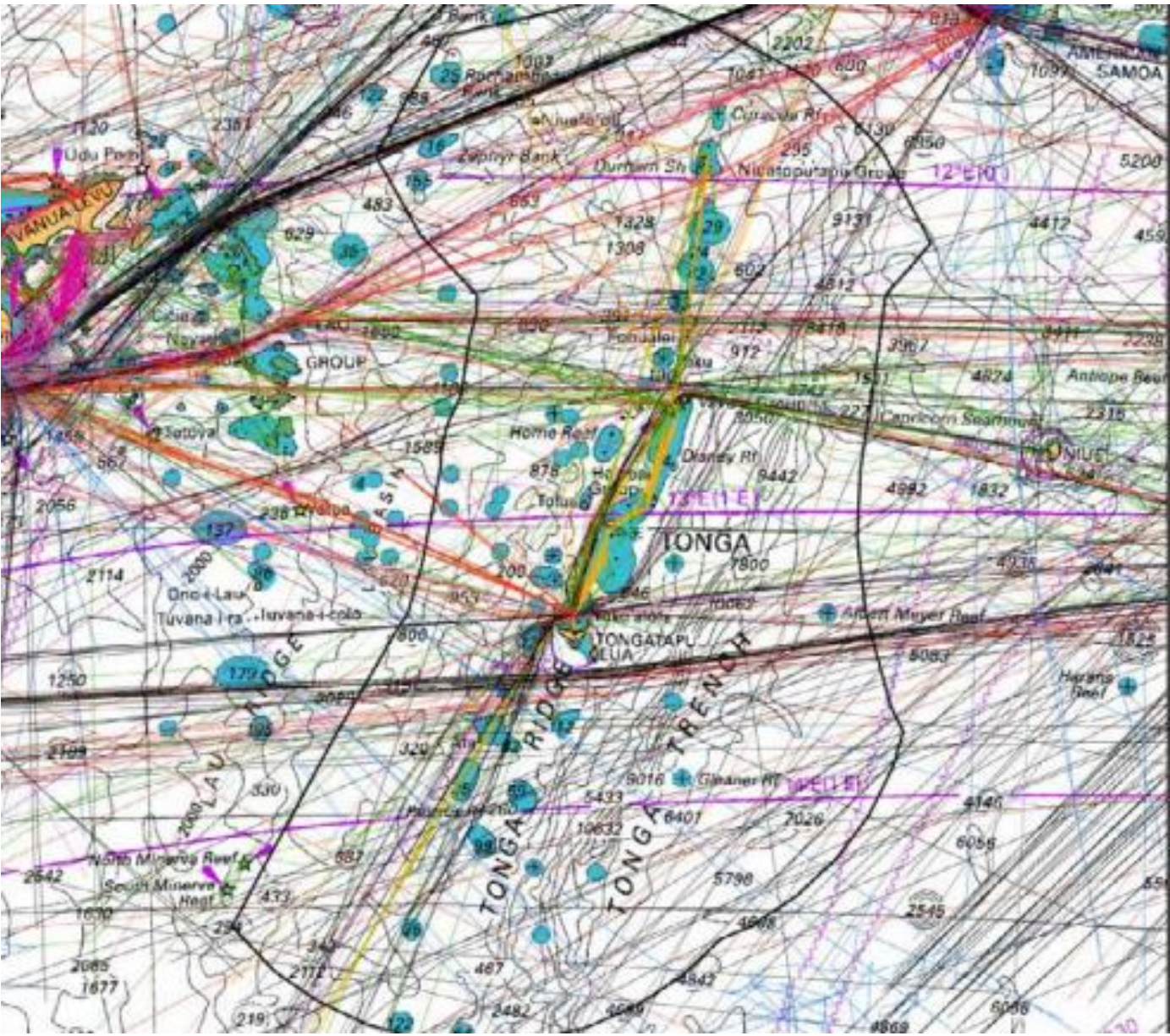


Regular Domestic and International trading between South Pacific Nations.

Impossible to avoid poor quality ZOC when trading this general region.

Modern survey based ENC's required for regular shipping routes.



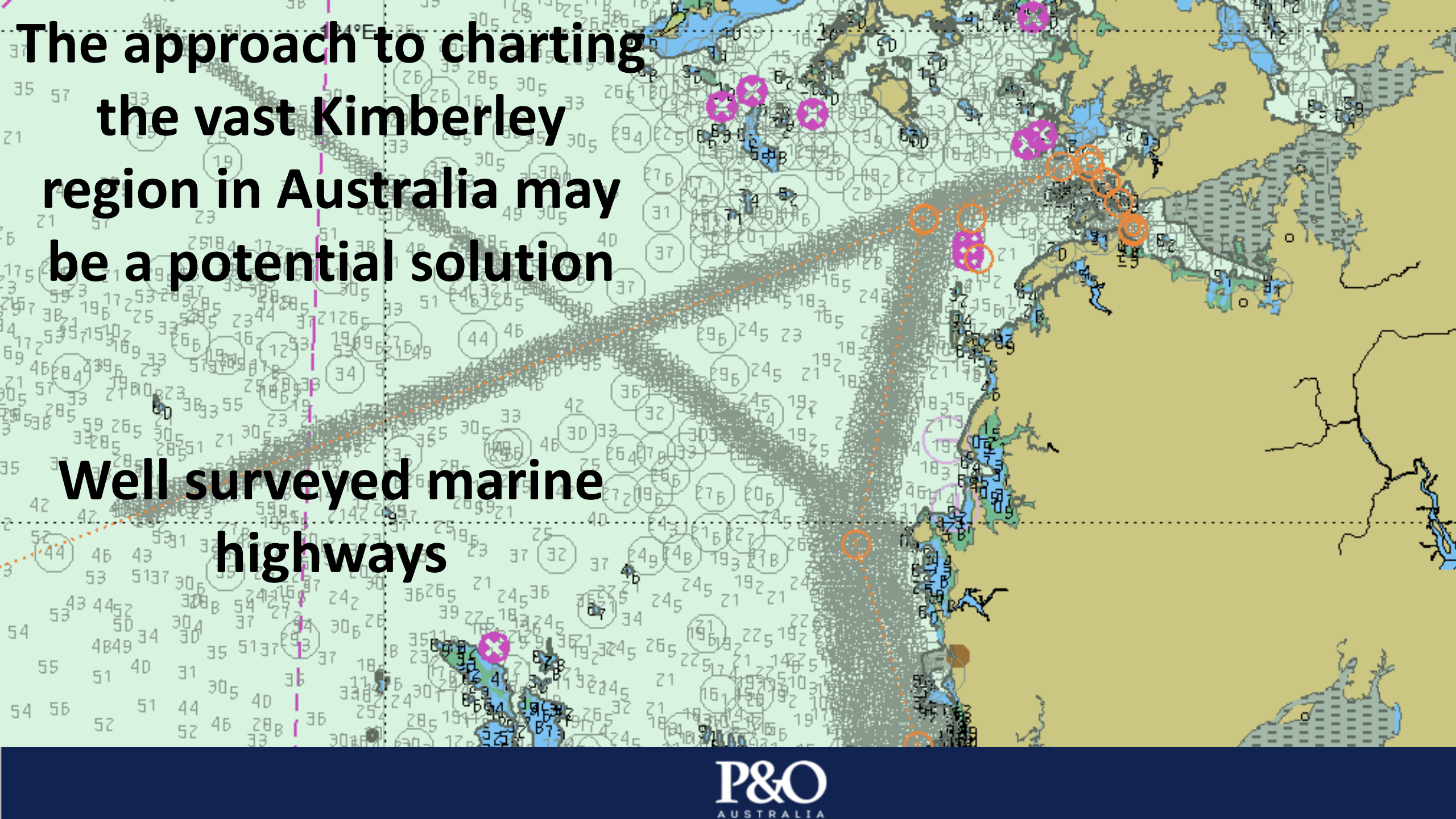


**SOUTH WEST PACIFIC REGIONAL HYDROGRAPHY  
PROGRAMME**

**TONGA RISK ASSESSMENT**

Risks identified in 2014 have largely been addressed for Tonga domestic traffic.

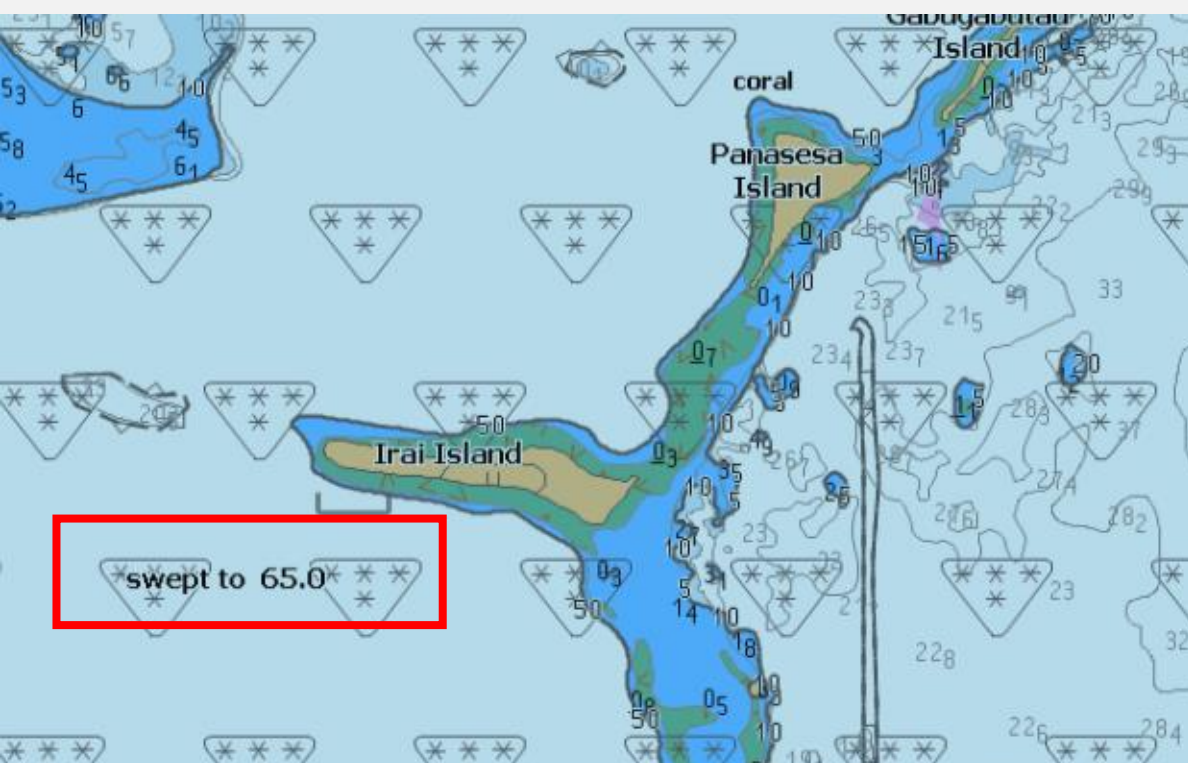
Recent near miss has highlighted the need for sea lanes between South Pacific nations to be better charted.



**The approach to charting  
the vast Kimberley  
region in Australia may  
be a potential solution**

**Well surveyed marine  
highways**

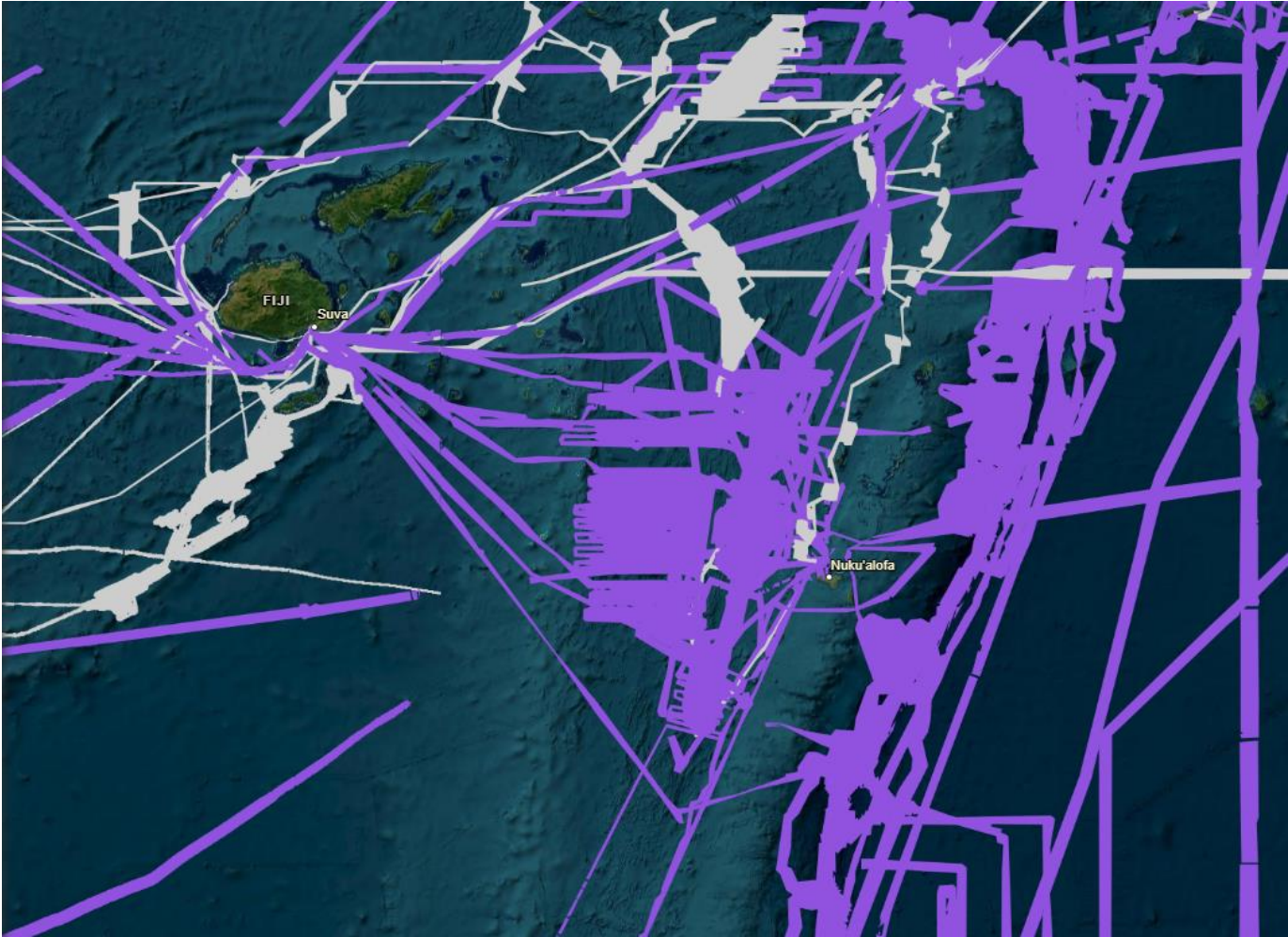
# Conflict Islands



- LIDAR Survey west coast
- Navigation on a chart swept to 65m
- Bespoke solution “No bottom found at 65m”



# DOES THE DATA ALREADY EXIST TO ESTABLISH SEA LANES WITH MODERN SURVEY STANDARDS?



**AUS**  
SEABED

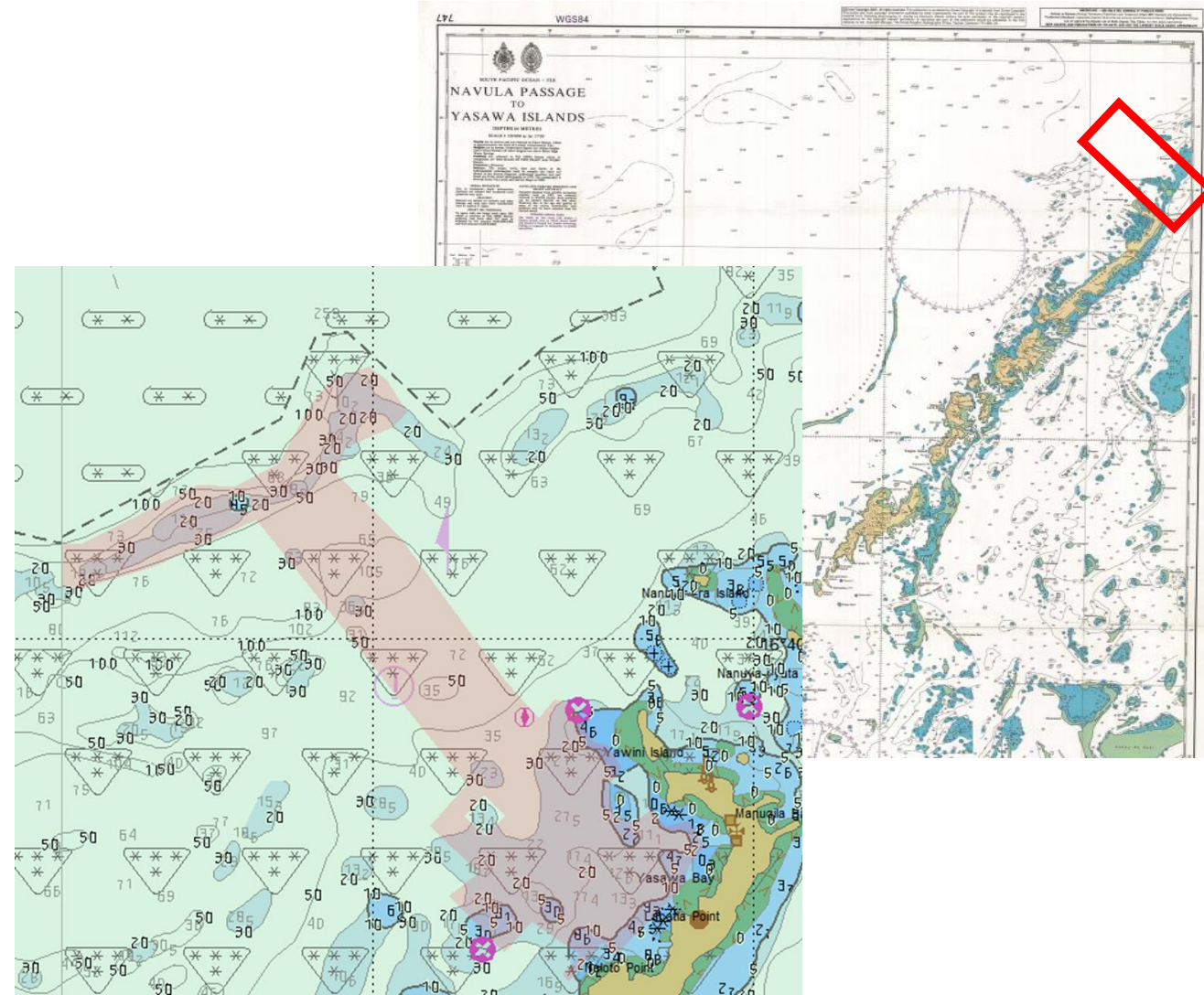
# Case Study #2 ASPIRATIONAL DESTINATIONS

- Yasawa- i- Rara
- Rotuma ( Fiji)
- Torres Islands ( Vanuatu)
- Bouganville ( PNG)
- Spice Islands ( Indonesia)
- Savaii ( Samoa)

Yasawa - i - Rara ; long time on this list

Community lobbying to help stem “urban drift”

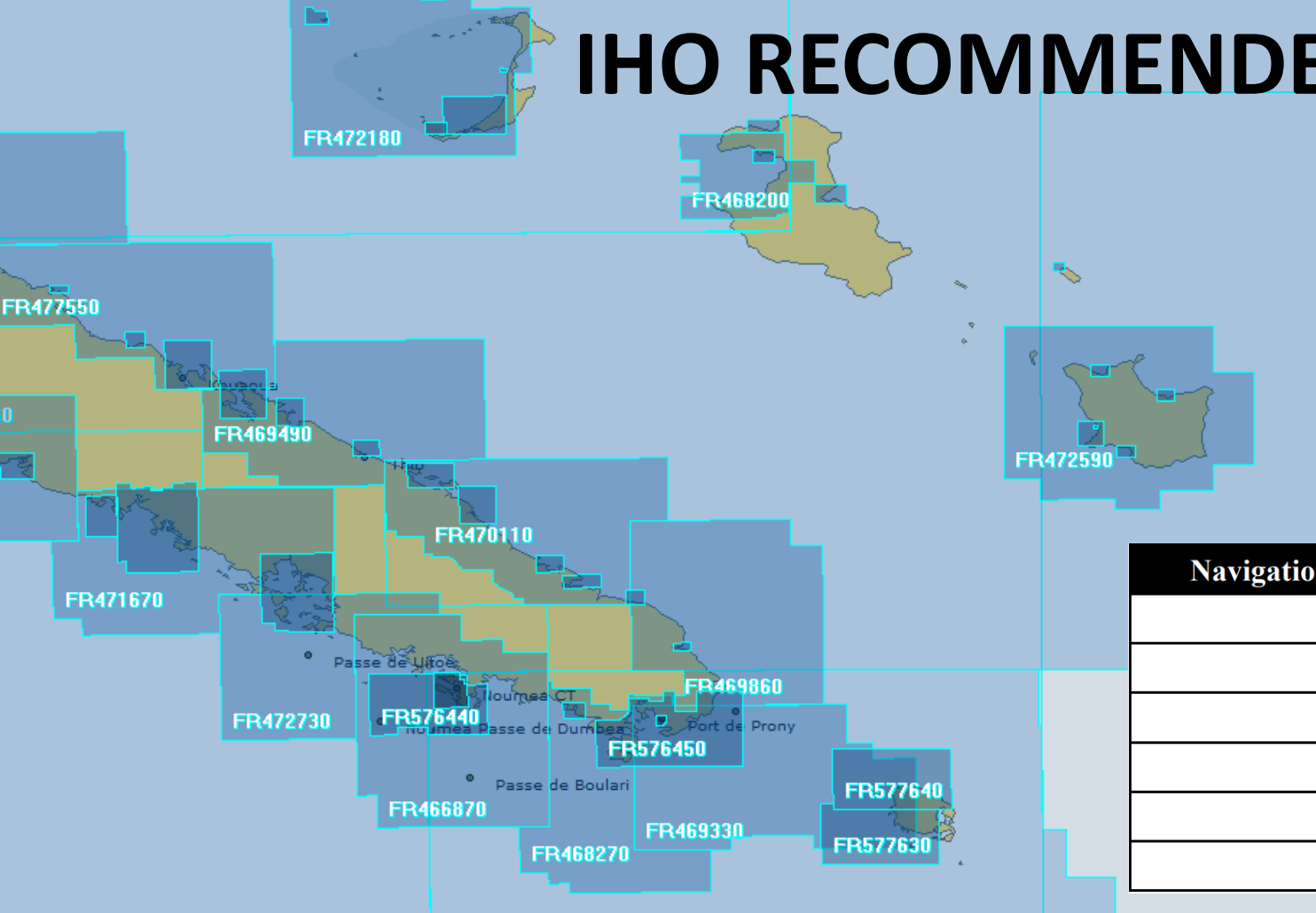
Require 1:4000 – 1:8000 scale cell – data appears to already exist ?



# IHO RECOMMENDED SCALES

ALL of the IHO recommended usage bands are produced for the majority of ports in New Caledonia.

This allows ships to utilise perfect compilation scales required for best navigation practices.



Navigational Purpose	Name	Scale Range
1	Overview	<1:1 499 999
2	General	1:350 000 – 1:1 499 999
3	Coastal	1:90 000 – 1:349 999
4	Approach	1:22 000 – 1:89 999
5	Harbour	1:4 000 – 1:21 999
6	Berthing	> 1:4 000

<u>Product</u>	<u>Title</u>	<u>Highlight</u>	<u>Basket</u>	<u>Inventory</u>	<u>Usage(s)</u>	<u>Scale</u>
FR676430	<u>Noumea harbour</u>	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	Berthing	1:8.000
FR576440	<u>Approaches to Noumea harbour</u>	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	Harbour	1:22.000
FR466870	<u>App Noumea Passe Boulari Dumbea</u>	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	Approach	1:45.000
FR370520	<u>Noumea Ile d' Pins Grand Lagon</u>	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	Coastal	1:90.000
FR272680	<u>Nouvelle-Caledonie</u>	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	General	1:700.000
AU130150	<u>Australia North East Approaches</u>	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	Overview	1:3.000.000

# PACIFIC EXPLORER IN SAMOA TO ASSIST CHOGM 2024

The Theme, “One Resilient Common Future: Transforming our Common Wealth,” looks at the core pillars of the Commonwealth through a resilience lens. CHOGM 2024 aims to strengthen:

- Resilient democratic institutions upholding human rights, democracy, and the rule of law.
- A resilient environment to combat climate change.
- Resilient economies that support recovery and prosperity.
- Resilient societies to empower individuals for a peaceful and productive life.



Maritime resilience fits in with the general theme of CHOGM 24



Vinaka/Thankyou

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