



Pacific  
Community  
Communauté  
du Pacifique



# Pacific Geospatial and Surveying Council

**UN-GGIM International Seminar on Effective and Integrated Marine Geospatial Information Management**

**Session 6; Partnerships, capacity development and advocacy for integrated marine geospatial information 12 May 2022, Singapore.**

**Andrick Lal - Pacific Community (SPC)**

**Pacific Geospatial & Surveying Council (PGSC) Partnership Desk**

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**<http://pgsc.gem.spc.int/>**





# Blue Pacific

**22** Countries  
and Territories

**10** million people

**28** million square  
kilometres

**20%** of the  
world's EEZs





# What is the PGSC?

- The Pacific Geospatial and Surveying Council
- **Independent regional body** advancing geospatial and surveying standards and capacity
- Established in the margins of the Pacific GIS/RS User Conference in November 2014
- Governed by the **PGSC Charter** endorsed by 11 Pacific Island governments
- Implementing and monitoring progress against the **PGSC Strategy (2017-2027)**
- Supported by **PGSC Partnership Desk** (GEM Division SPC)





# Pacific Geospatial and Surveying Council 2018



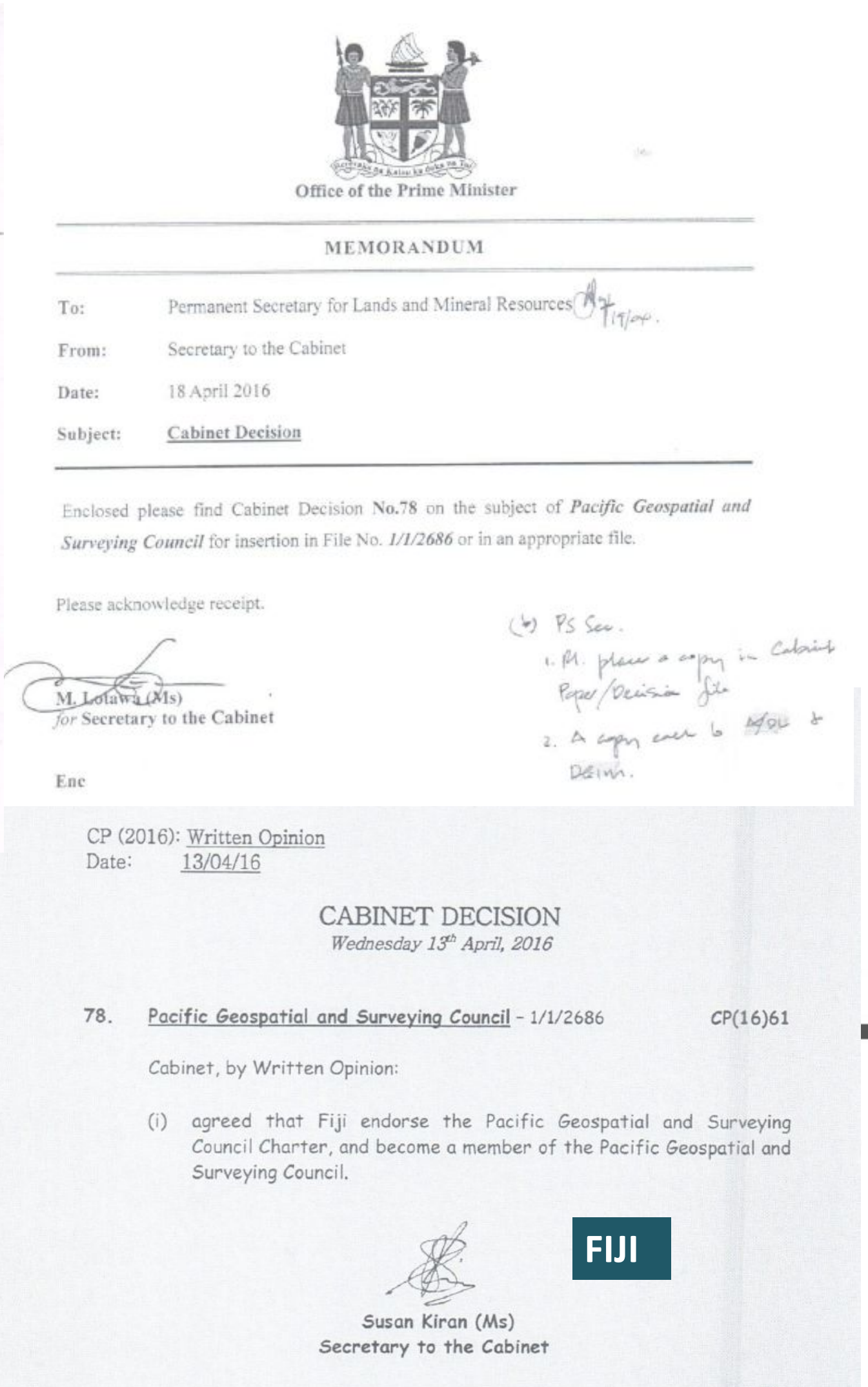
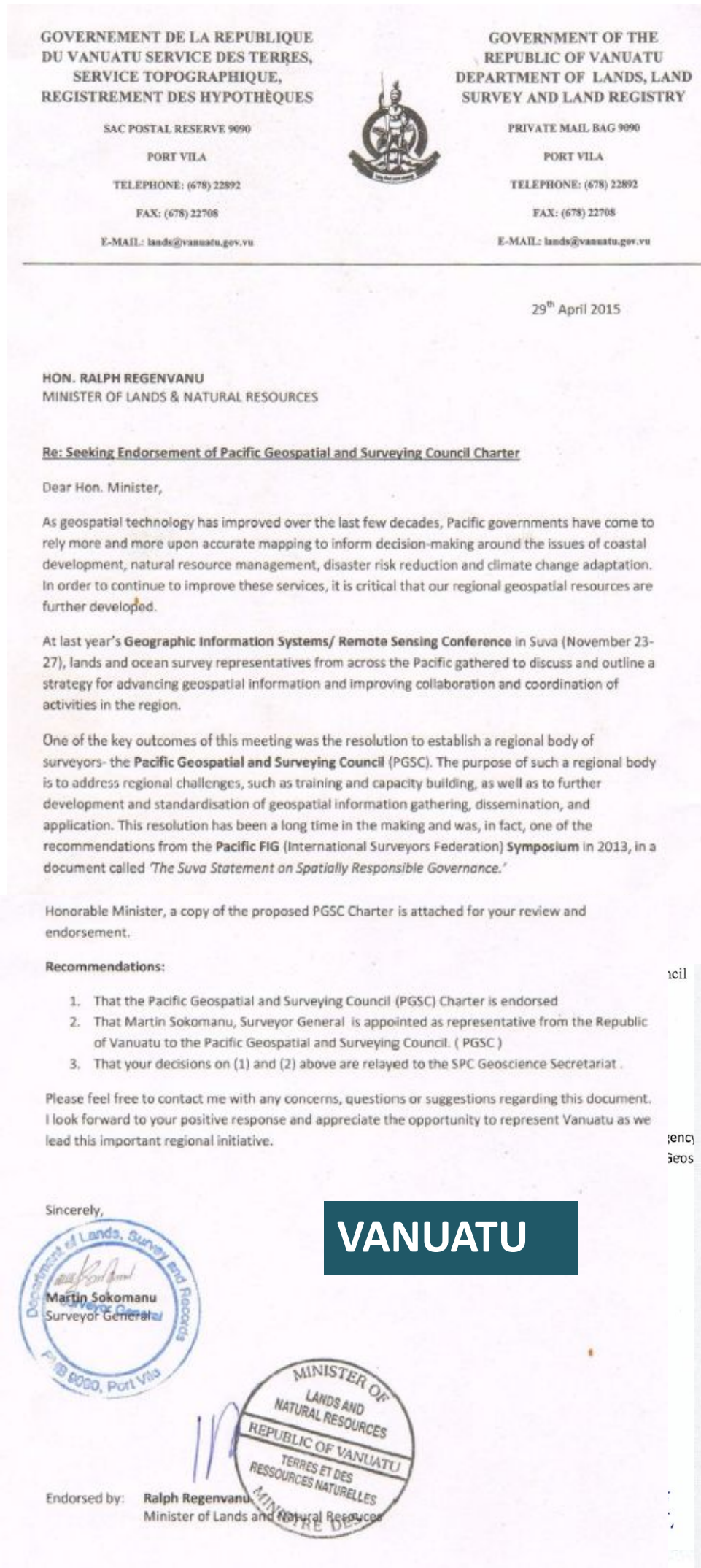
**Chair Ms Rosamond Bing, CEO - Ministry of Lands and Natural Resources (Tonga)**

**Vice-Chair Ms Meizyanne Hicks, Director Geospatial - Ministry of Lands and Mineral Resources (Fiji)**



# PGSC Charter

- Drafted by committee in 2014 at inaugural PGSC meeting
- Endorsed by 11 Pacific Governments at Ministerial Level in 2015-2016
- Endorsed by Fiji at Cabinet Level in 2016





# PGSC Charter

## Outlines

### - Membership

- Core Member (countries lands & survey, geospatial, hydrographic professionals)
- Observer (organisation, institution)
- Expert Contributor

### - Meetings

- Every 1-2 years

### - Working Groups

- May be established to address technical issue or conduct specific activity

### - Responsibilities of Chair/ Vice Chair

### - Administration & Governance

- Governed by members

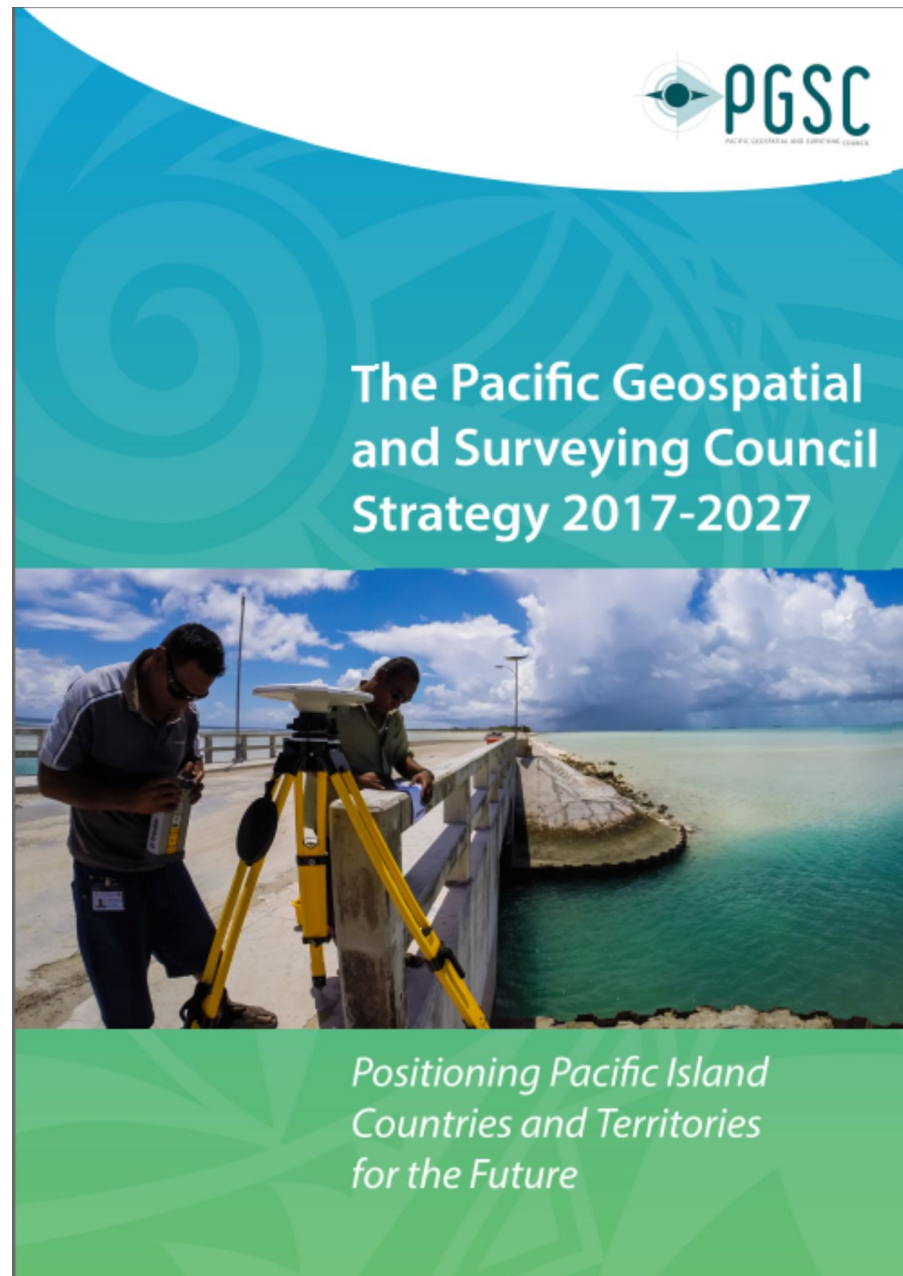
## VISION

*Sustainable development in the Pacific enabled by world class geospatial information and surveying services*





# PGSC Strategy



**The late Prime Minister, Hon. Samiuela 'Akilisi Pōhiva launched the world's first regional strategy for surveying & geospatial development on 10 April 2018 in Nuku'alofa, Tonga**

Also pictured, the Australian High Commissioner, New Zealand High Commissioner, Japanese Consulate, UNGGIM, and the Pacific Community (PGSC Partnership Desk)



# PGSC Strategy

- Workshopped and developed collaboratively at the 2015 PGSC Meeting
- Drafted by the PGSC Strategy Drafting Committee
- Edited and reviewed by MEL consultants
- Content endorsed by the PGSC in November 2016
- Officially launched at PGSC meeting in April 2018





# PGSC Working Groups

## Positioning



Supporting countries to modernise their Geodetic Reference Frames and align to the Global model

## Geospatial Policy & Data Management



Supporting countries to develop policies and tools for improved geospatial information and data management

## Capacity Building



Supporting countries to build existing and future capacity through expanded professional development and educational opportunities



# Strategic Partnerships

- **Donor** support from AU-DFAT, NZ-MFAT, UN-GGIM
- **Training and capacity support** from Geoscience Australia, LINZ, UN-GGIM, UN-GGIM-AP, FIG, UKHO, USP, UNOOSA, SPC
- **Equipment and infrastructure** support from GA, SPC
- **MoU** signed with S+SNZ (2018) and SSSI (2019)
- Links with key global and regional frameworks:
  - SDGs, UN-GGIM Roadmap, Sendai Framework, SAMOA Pathway, FRDP, FIG Suva Statement and Christchurch Declaration



Pacific and New Zealand surveying and geospatial professionals join forces for capacity development

10 Apr 2018 | Nuku'Alofa



**MoU signed with S+SNZ April 2018**



**MoU signed with SSSI Aug 2019**





# PGSC Partnership Desk - SPC

- Surveying and Geospatial
- Remote Sensing
- Drone Operations
- Maritime Boundaries
- Geology
- Hydrography
- Oceanography

- Law and Policy
- Stakeholder engagement
- Training
- Communications
- Procurement
- Management
- Advocacy
- Capacity Development
- Resource Development



PGSC Partnership Desk receives SPC DG Award for Member Collaboration Dec 2018



Partnership and Collaboration National, Regional and International UNOOSA Workshop, Suva 2019.



# More Recent Activities

**Tuvalu Geodetic Surveys - Nine (9) atolls (2016-2019)**

**GA donates GNSS equipment to PGSC Desk (2019)**

**Pre-campaign GNSS Operational Training for Fiji Lands (2019)**

**Survey team support for Fiji Geodetic Modernization Campaign (2019-2020)**

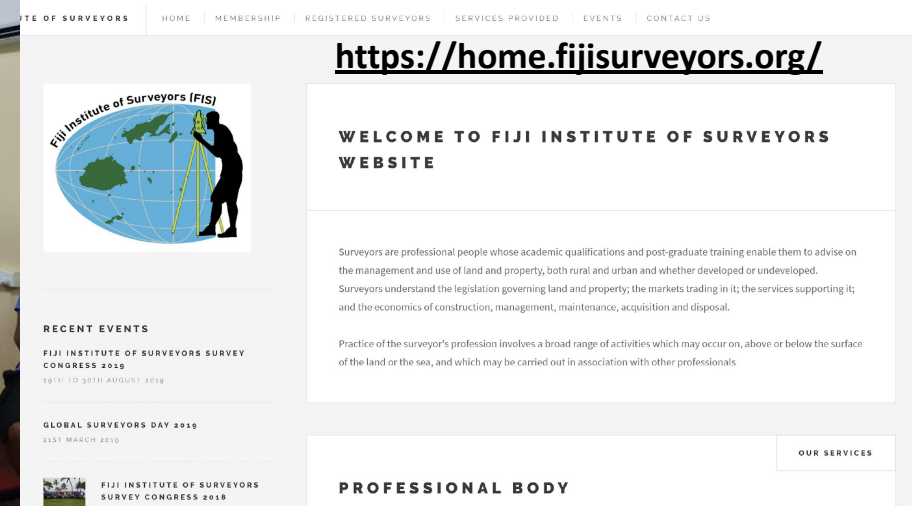
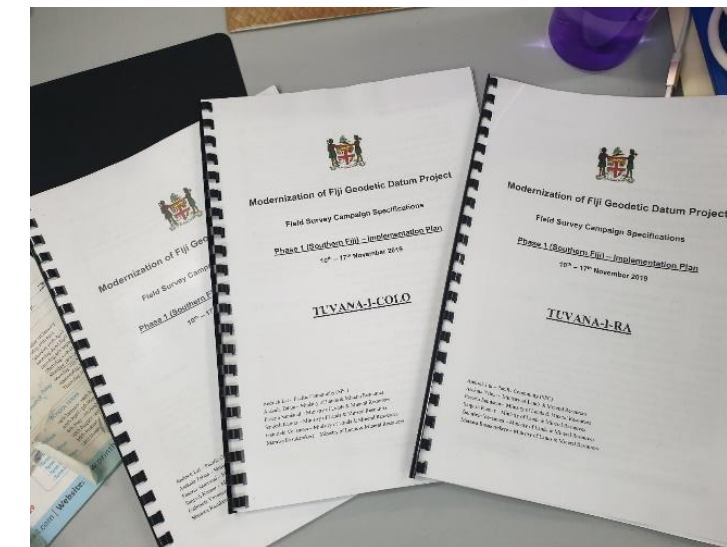
**GNSS Data Processing & Analysis – Tonga Survey Office (2019)**

**Virtual AUSPOS Training – Tuvalu Survey Team (2020)**

**Fiji Institute of Surveyors Website (2019)**

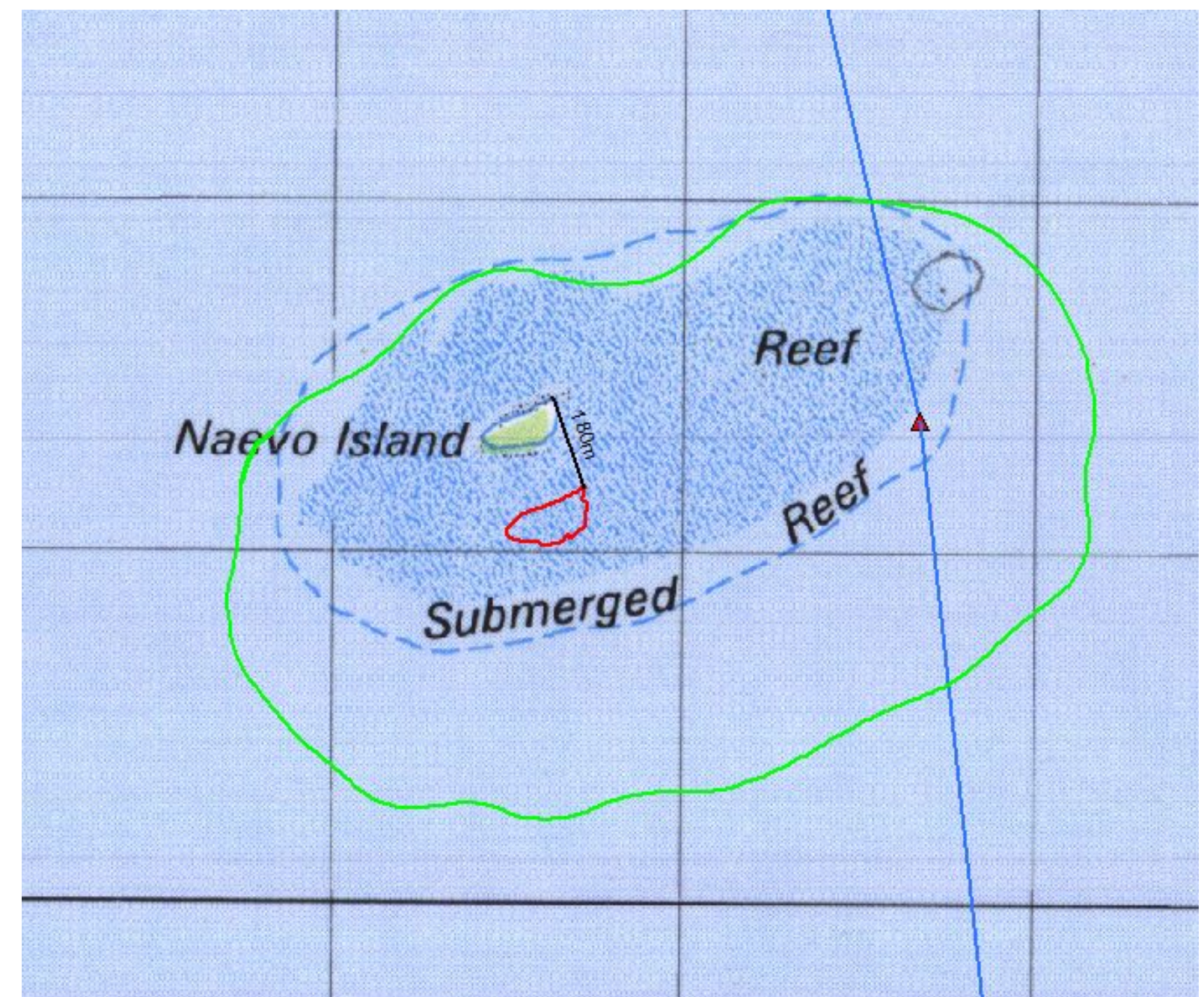
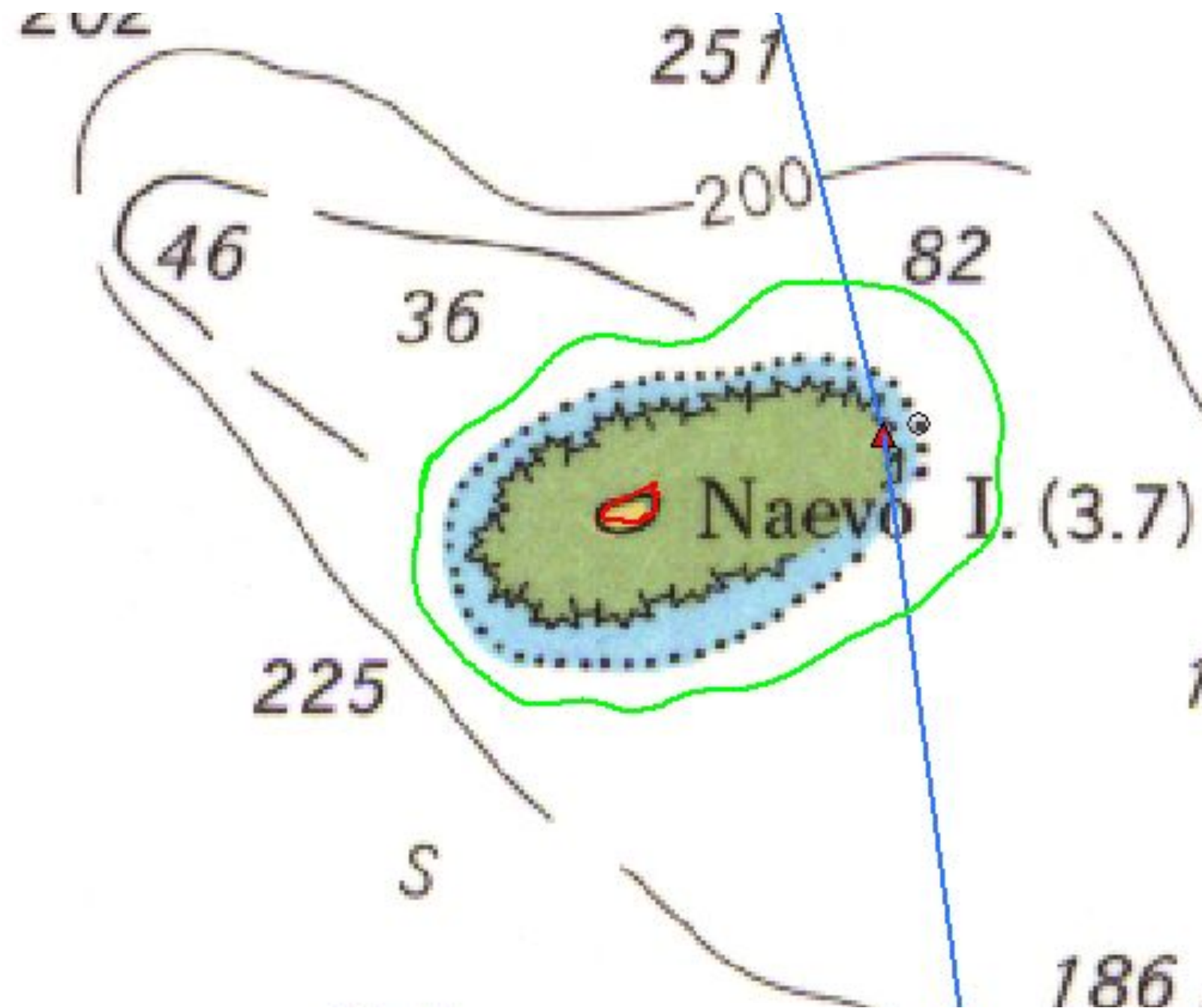
**Tuvalu Geodetic Surveys Data Processing, Analysis and Reporting (2020-2021)**

**Fiji Geodetic Surveys Campaign Survey Data Compilation, Data Processing and Analysis (2020-2021)**



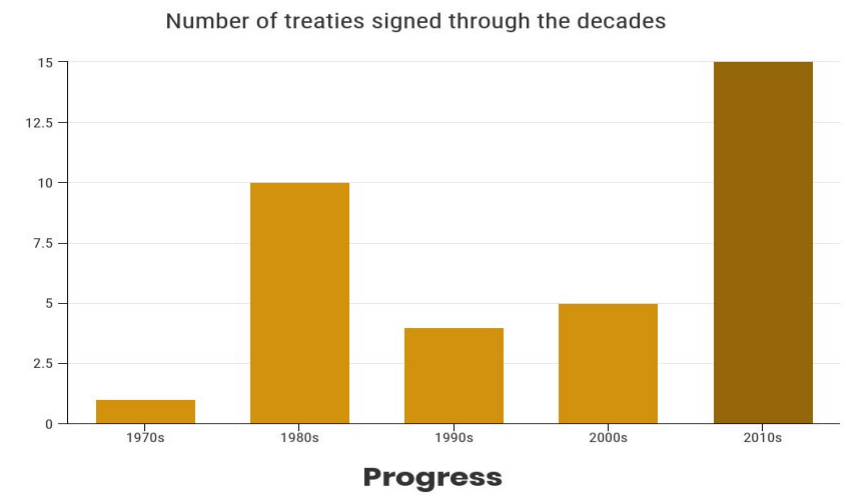
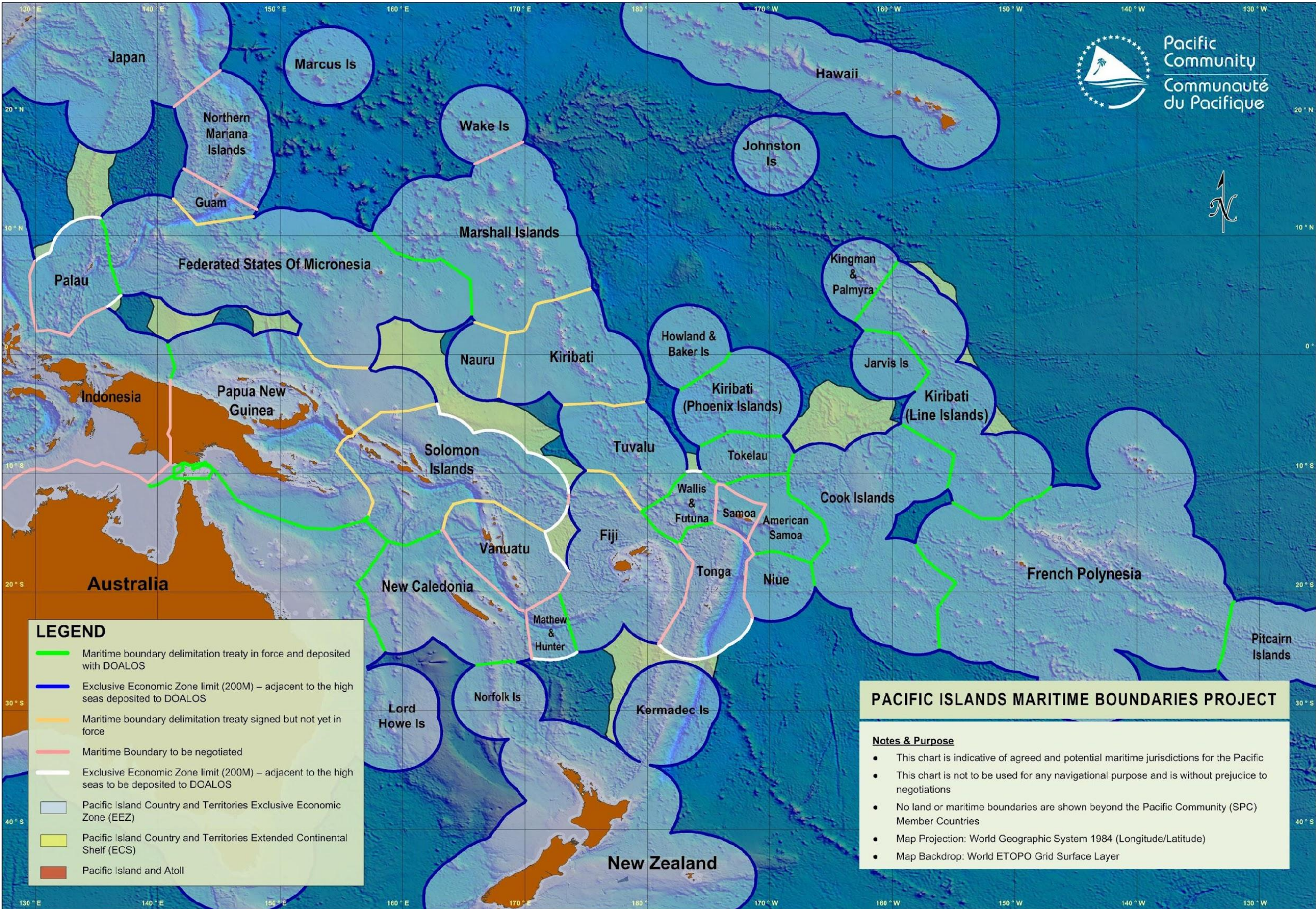


# Positioning





# Pacific Maritime Boundaries



The number of treaties signed has increased in response to strengthened regional cooperation



# Pacific Maritime Boundaries - Consortium



FRAMEWORK FOR  
A PACIFIC  
OCEANSCAPE

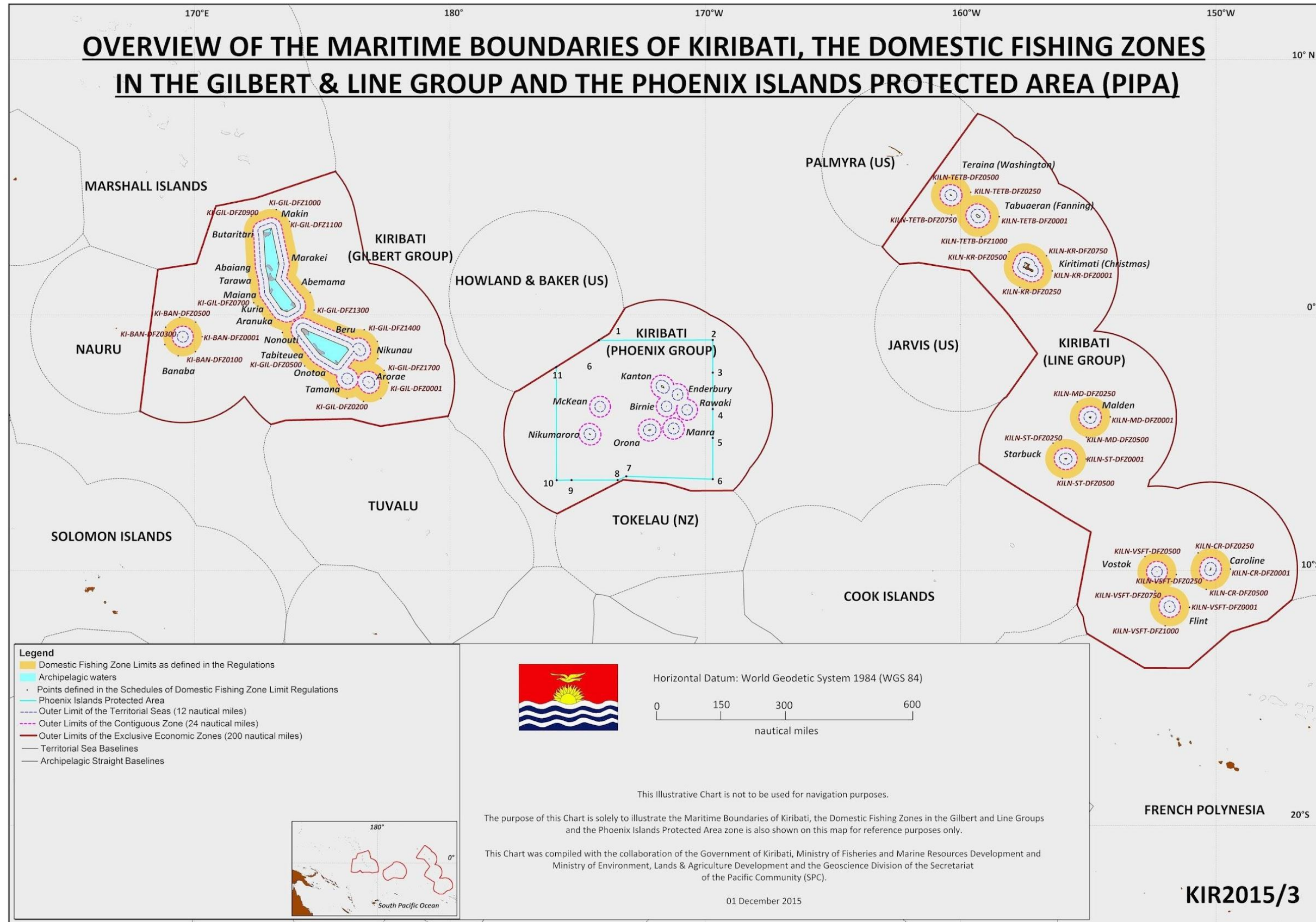
Priority 1



TARGET 14.C  
Implement  
international law:  
UN Convention on the  
Law of the Sea



# Maritime Boundaries Data Sets



- **PIRMBIS Database**
- **Data Hub**
- **Dashboard**
- **SPC & FFA SLA – VMS**
- **S121 & S122**

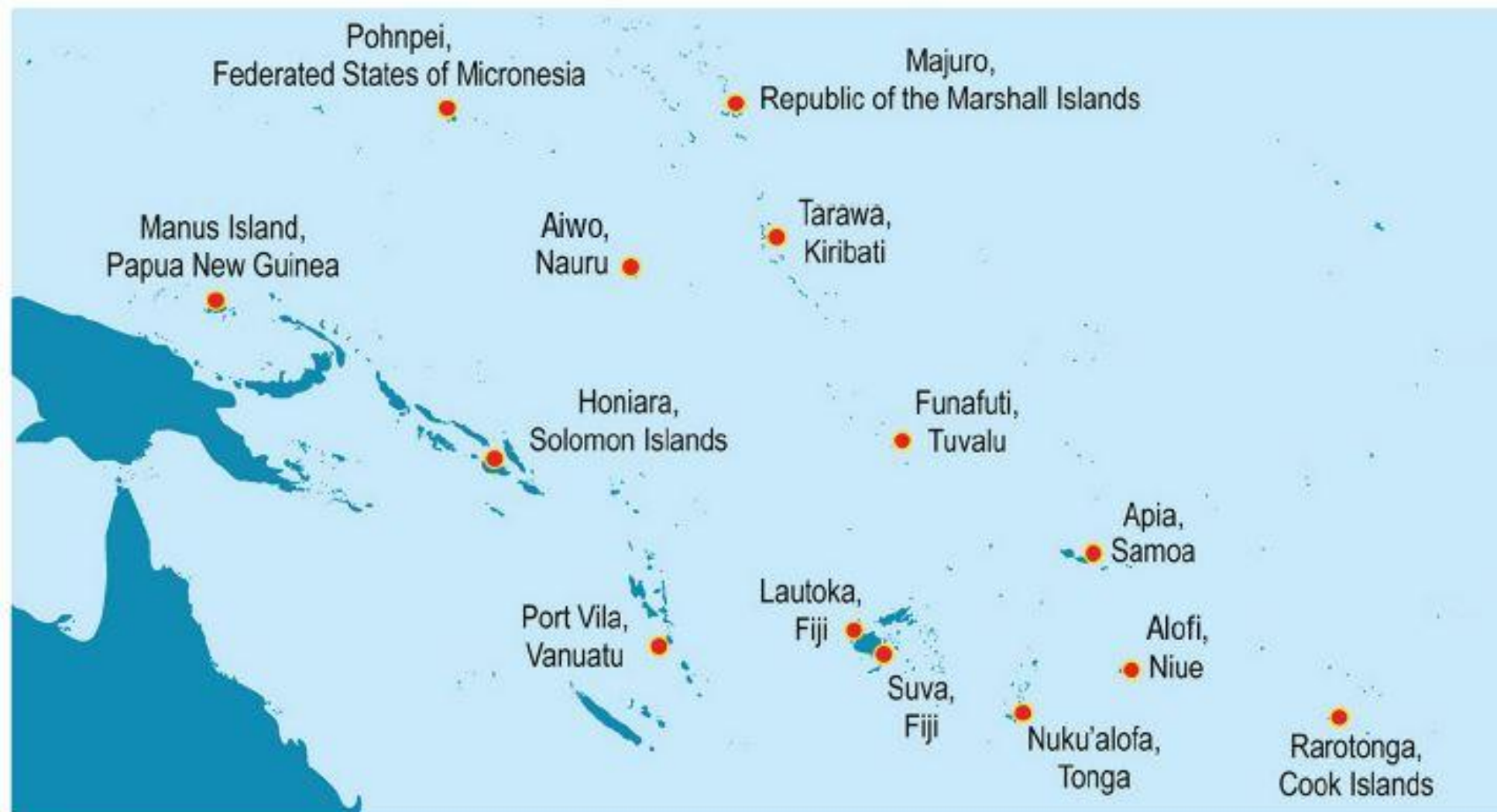


# Pacific Sea Level & Geodetic Monitoring

Earth Monitoring: Permanent GNSS monument with continuously operating reference station

Sea Level Monitoring: Permanent SEAFRAME station with continuous monitoring of instantaneous sea level

*Co-Location of this equipment at 13 sites in the region*



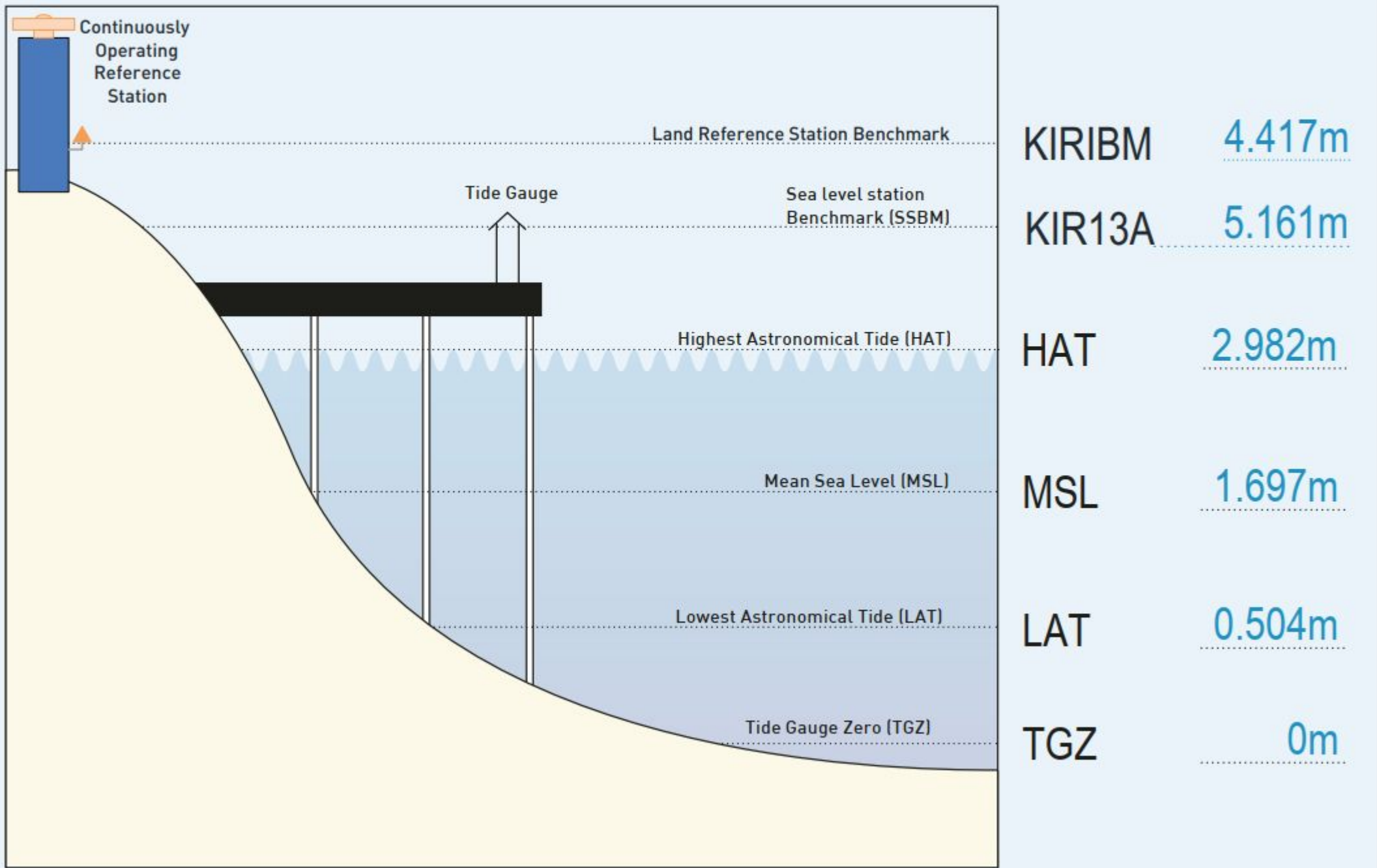


# Pacific Sea Level & Geodetic Monitoring

Connecting Land to Sea

## Betio

The diagram below shows the predicted heights of key tide components based on averages of the data available.





# Pacific Geospatial and Surveying Council 2020

The Pacific Geospatial and Surveying Council brings together regional experts, practitioners, and heads of surveying, geospatial information management, and hydrography to report progress against the PGSC Strategy (2017–2027), conduct council business, identify key actions for working groups to progress, and provide a platform to raise regional issues and concerns related to geospatial and surveying capacity development, policy, technical standards, technology, and resourcing.







Merana Kitone

Admin · February 27, 2020 ·

The Pacific Geospatial and Surveying Council (PGSC) is a regional organization that provides a forum for Pacific Island geospatial professionals to share knowledge and address regional challenges.

In November 2014, a group of Pacific regional geospatial experts met in the margins of the annual Pacific Geospatial Information Conference in Suva, Fiji. It was at this meeting that the PGSC was established.



# Pacific Geospatial & Surveying Council Facebook Page

<https://www.facebook.com/groups/3998884766792177/>



# Emerging Opportunities

- **Develop & maintain operationalisation of the IGLF through country action plan**
- **Digital Earth Pacific**
- **Global Geodetic Centre of Excellence – Affiliation**
- **Adopt, align and enhance Global Geodetic Reference Frame in the region**
- **Maintain the Partnership Desk at SPC**
- **Establish pool of experts for capacity in expertise and skills**





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# Thank you and Vinaka