



FIG WORKING WEEK 2023

28 May - 1 June 2023 Orlando Florida USA

Protecting
Our World,
Conquering
New Frontiers

FIG and Pacific SIDS Support

Pacific Geospatial and Surveying Council (PGSC)



SPC PGSC Partnership Desk – Andrick Lal



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)

2014



2015



2016



4th PGSC Meeting 2018 – Tonga





The 5th Pacific Geospatial & Surveying Council Meeting

11-12 August 2020- Open Participation

- Formal opening
- Regional updates and emerging issues

13-14 August 2020- Members Only

- PGSC business and governance

Invitations, agenda, and details to follow
Contact pgsc_desk@spc.int with queries



PGSC Plenary Session 2022

- Mid term Review of PGSC Strategy (2017 – 2027)
- Pacific Geospatial Women Network
- PGSC Working Groups
- PGSC Support and the Partnership Desk
- UN-GGIM IGIF Country Action Plan (Fiji and Tonga)



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

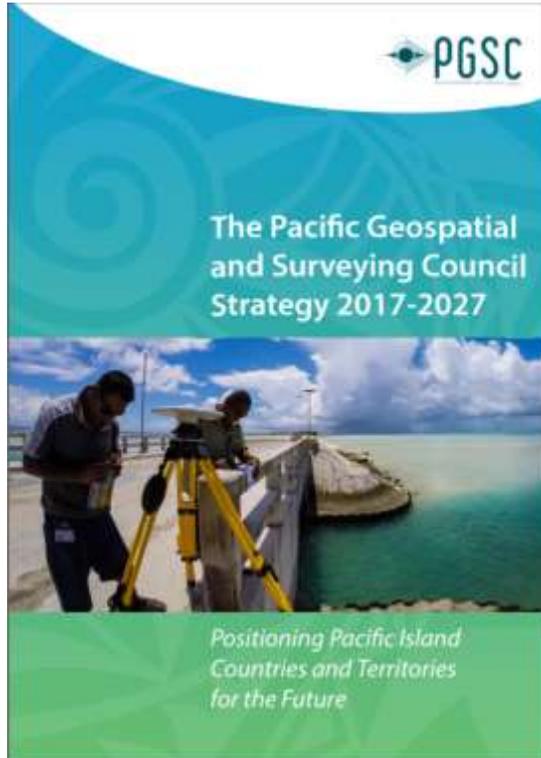
Sustainable development in the Pacific enabled by world class geospatial information and surveying services



PGSC Strategy

- 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



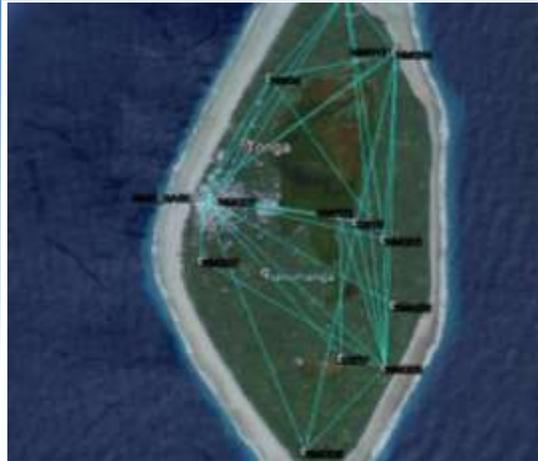


The late Prime Minister, Hon. Samiuela 'Akilisi Pōhiva launched the world's first regional strategy for surveying & geospatial development on 10 April 2018 in Nuku'alofa, Tonga

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

PGSC 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-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

MoU signed with S+SNZ April 2018



MoU signed with SSSI Aug 2019

PGSC Partnership Desk

- Geological Surveys
- Hydrography
- Oceanography
- Geospatial Data Management
- Surveying and Geospatial
- Remote Sensing
- Maritime Boundaries
- UAV Surveys
- 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 & International UNOOSA Workshop, Suva 2019

PGSC Activities

- Tuvalu Geodetic Surveys, Data Processing, Analysis & Reporting
- GNSS Equipment Pool – PGSC Desk
- Geodetic Survey Operations & Data Management
- Datum Modernization – Fiji, Tuvalu, Tonga, Vanuatu, PNG (ARoB)
- GNSS Data Processing, Analysis & Reporting
- Virtual Survey Capacity Training – Survey Teams
- Fiji Institute of Surveyors Survey Congress and Website
- GNSS CORS - Fiji

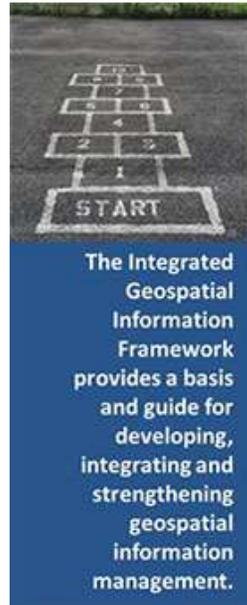


<https://home.fijisurveyors.org/>





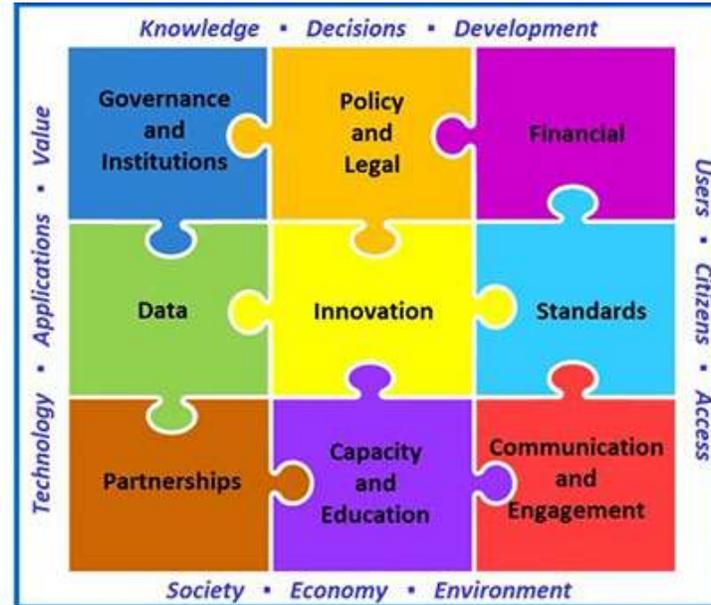
United Nations Committee of Experts on Global Geospatial Information Management



Governance →

Technology →

People →

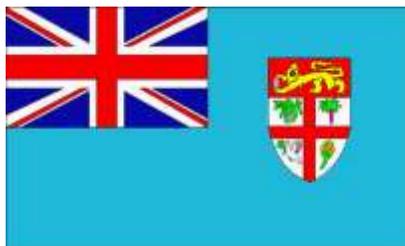


- United Nations Sub-committee on Geodesy
- Expert Group on Land Administration and Management
- Expert Group on Marine Geospatial Information





United Nations Committee of Experts on Global Geospatial Information Management



United Nations

11TH TRANCHE DEVELOPMENT ACCOUNT PROJECT

STRENGTHENING GEOSPATIAL INFORMATION MANAGEMENT IN DEVELOPING COUNTRIES

TOWARDS IMPLEMENTING THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT

(PROJECT 1819D)

COUNTRY-LEVEL ACTION PLAN

ADDENDUM L

TOWARDS STRENGTHENING ARRANGEMENTS IN NATIONAL GEOSPATIAL

INFORMATION MANAGEMENT

[Republic of the Fiji Islands]



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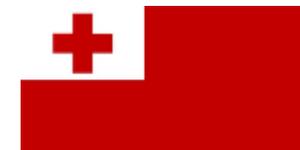


United Nations Committee of Experts on Global Geospatial Information Management



KINGDOM OF TONGA

STRENGTHENING ARRANGEMENTS TOWARD
AN INTEGRATED GEOSPATIAL MANAGEMENT



Organized By



Diamond Sponsors



Kiribati and UN-GGIM IGIF

Experiences

- ▶ Employing team members to work on the CAP
- ▶ Understanding what needs to be done
- ▶ Being determined
- ▶ Consultation with Stakeholders
- ▶ Approval from the highest level
- ▶ Sharing our journey with our friends in the Pacific region



Pathway 4 - DATA

- Availability of high Quality Data is an enabler for decision makers to understand where investments can have the greatest impact (Antonio Gutierrez, UN Secretary General).
- SDG Data Alliance supports to establishing National SDG Data Hub Platforms: To enable monitoring of achievement of the SDGs to goal target and indicators (Success: SDG Data Alliance).
- SDG Data Hub Solution Template is configured using ArcGIS Online that organizes people, Data and Tools to accomplish in various and goals.
- Esri GIS technology gives a professional packages for a custom deployment template on cloud services:
 - 1. ArcGIS Online (ArcGIS.com) - Web-based cloud platform
 - 2. ArcGIS Enterprise (ArcGIS.com) - On-premise cloud platform
 - 3. ArcGIS Connect (ArcGIS.com) - On-premise cloud platform
 - 4. ArcGIS Insights (ArcGIS.com) - On-premise cloud platform
 - 5. ArcGIS Experience Builder (ArcGIS.com) - On-premise cloud platform

Geodetic Survey Capacity



```

HEIGHT OF SURVEY MARK:
(SMALL SEA LEVEL DATUM)
OBSERVATION START DATE/DAY: 09/11/2019
UTC TIME: 2207hrs
OBSERVATION END DATE/DAY: 17/11/2019
UTC TIME: 0500hrs
GNSS RECEIVER TYPE: TRIMBLE
MODEL: TRIMBLE R10
SERIAL NUMBER: 5332441653
FIRMWARE VERSION: 4.01
GNSS ANTENNA TYPE: TRIMBLE
MODEL: TRIMB10
SERIAL NUMBER: 5333441463
HEIGHT OF GNSS ANTENNA ABOVE STATION MARK: 1.643m
(VERTICAL MEASUREMENT)
DESCRIPTION OF THE POINT ON THE GNSS ANTENNA
THAT THE ANTENNA HEIGHT REFERS TO:
BOTTOM OF QUICK RELEASE
ANTENNA HEIGHT TO ARP - 1.692m
  
```

ATTACH ADDITIONAL INFORMATION AND DIAGRAMS THAT MAY BE USEFUL FOR FURTHER PROCESSING THE DATA AND ANALYSING THE RESULTS.

Geospatial and Geodetic Data Management

COUNTRY: FIJI
ISLAND: VANUA LEVU
PROVINCE: MACUATA

MINISTRY OF LANDS & MINERAL RESOURCE CONTROL SECTION

POINT ID: BULE
DATE: 26-01-20
LDP: FJ133

Locality Diagram Nat To Scale

COUNTRY: FIJI
ISLAND: VANUA LEVU
PROVINCE: BUA

MINISTRY OF LANDS & MINERAL RESOURCE CONTROL SECTION

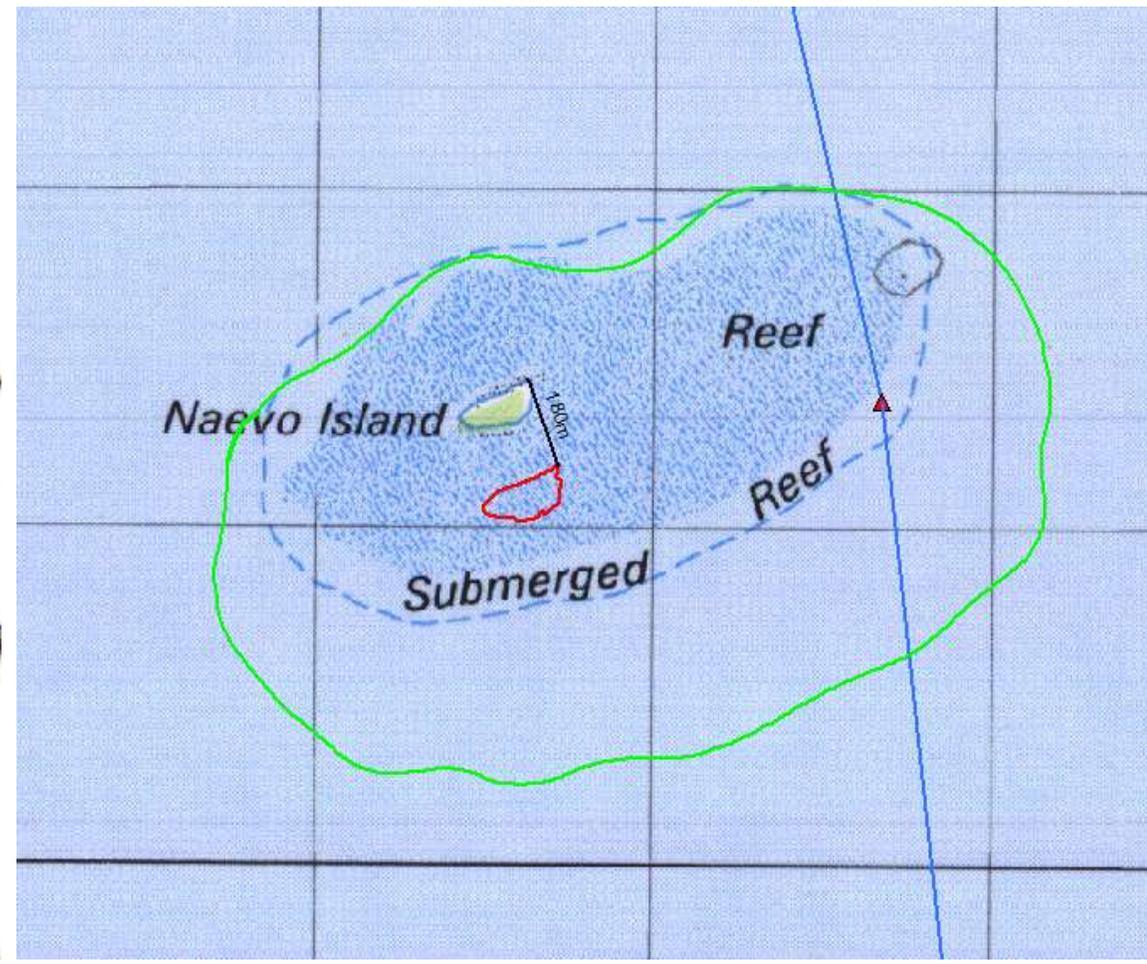
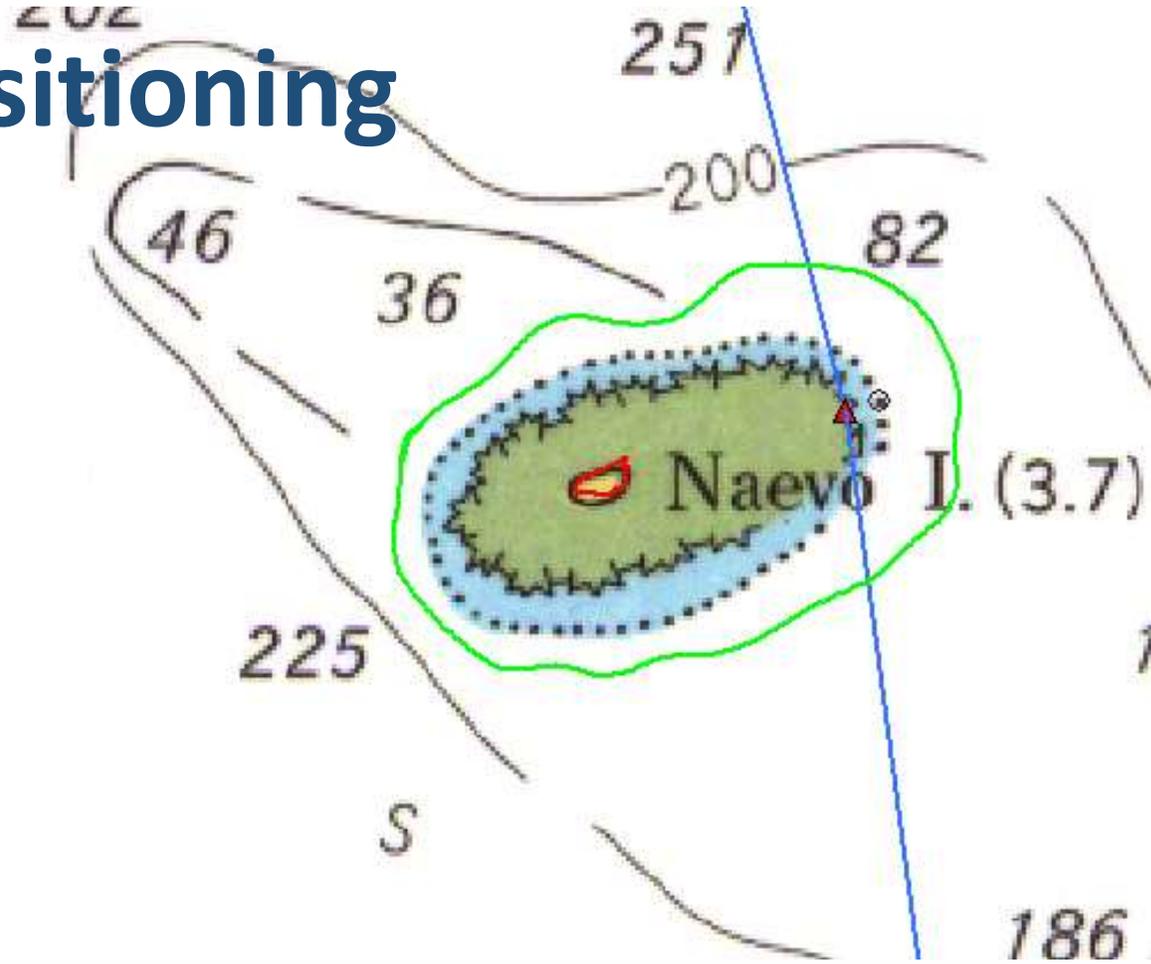
POINT ID: ROGA
DATE: 25-01-20
LDP: FJ134

Locality Diagram Nat To Scale

Station ID	Station Name	Occupation Period	Interval	Receiver Type	Antenna Type	Rinex Version	Vertical Ht (m)	Rinex Height	Antenna Method	Firmware	Checked By	Field Operators
LAUT	Lautoka	Continuous	1sec	SEPT POLARIS	JAVRINGANT_DM	5.2.0			ARP			GA
SUV1	Suva	Continuous	1sec	Trimble NetRS	TRM55971.00	4.19			ARP			SPC
IABC	Labasa	Continuous	1sec	VNET10T-D	HI-TARGET AT-33501	3.02			ARP	C00		CONTROL
NABC	Nabouwahu	Continuous	1sec	HI-TARGET VNET10T-D	HITATS3501(HITS)	3.02			ARP	C00		CONTROL
TAVC	Taveuni	Continuous	1sec	HI-TARGET VNET10T-D	HITATS3501(HITS)	3.02			ARP	C00		CONTROL
KORC	Roro	Continuous	1sec	Leica GR50	Leica AR20	3.02			ARP	4.11.606		CONTROL
LAIC	Lakeba	Continuous	1sec	Leica GR50	Leica AR20	3.02			ARP	4.11.606		CONTROL
ONOC	Omo-i-Lau	Continuous	1sec	Leica GR50	Leica AR20	3.02			ARP	4.11.606		CONTROL
KADC	Kadavu	Continuous	1sec	Leica GR50	Leica AR20	3.02			ARP	4.11.606		CONTROL
ROTC	Rotuma	Continuous	1sec	Leica GR51	Leica AR21	3.02			ARP	4.11.606		CONTROL
CEVA	Ceva-i-ra	7 DAYS	1sec	TRIMBLE R10	TRMR10	3.02	1.642	1.652	Bottom of Notch	4.81	MT&MR	Poata
BUKE	Delainabukelevu (Kadavu)	7 DAYS	30sec	TRIMBLE NET RS	TRM557971.0	3.02	1.578	1.934	Bottom of Notch	5.37	MT&MR	Sakumera
NAKO	Nakorowaro (Gau)	7 DAYS	30sec	LEICA GS10	LEIA510	3.02	1.265	1.625	Hook height	5.05	MT&MR	Sica
OALA	Korokoli (Mogila)	7 DAYS	10sec	LEICA GPS 1200	LEIAX1202	2.11	1.404	1.764	Hook height	4.0	MT&MR	Navitalai
UNAV	Lakeba(GPS - Vadrana)	7 DAYS	1sec	LEICA GS16	LEIG516	3.02	1.38	1.740	Hook height	8.0	MT&MR	Isoni
CIKI	Cikobia-i-lau	7 DAYS	15sec	LEICA GS10	LEIA510	3.02	1.333	1.693	Hook height	5.05	MT&MR	Gabiriele
LULU	Cokalulu (Cicia)	7 DAYS	10sec	TRIMBLE NET RS	TRM557971.0	3.02	1.751	1.707	Bottom of Notch	4.85	MT&MR	Daniel
MTKU	Matuku	7 DAYS	30sec	LEICA GPS 1200	LEIAX1202	2.11	1.268	1.623	Hook height	4.0	MT&MR	William C
OGEA	Ogea Diki	7 DAYS	30sec	LEICA GPS 1200	LEIAX1202	2.11	1.185	1.545	Hook height	4.0	MT&MR	Livi
VATO	Vatua	7 DAYS	30sec	LEICA GPS 1200	LEIAX1202	2.11	1.272	1.632	Hook height	4.0	MT&MR	Niko

Station ID	Start time	Duration	Campaign	File Name
CEVA	10/11/19 1200hrs UTC	7days	Phase 1	16633153.19o 16633133.19o 16633140.19o 16633201.19o
BUKE	10/11/19 1200hrs UTC	7days	Phase 1	42703140.19o 42703150.19o 42703160.19o 42703170.19o 42703180.19o 42703190.19o 42703200.19o
NAKO	10/11/19 1200hrs UTC	7days	Phase 1	NAKO3140.19o
OALA	10/11/19 1200hrs UTC	7days	Phase 1	MOAL3130.19o
UNAV	10/11/19 1200hrs UTC	7days	Phase 1	UNAV3140.19o UNAV3130.19o
CIKI	10/11/19 1200hrs UTC	7days	Phase 1	CIKI3130.19o
LULU	10/11/19 1200hrs UTC	7days	Phase 1	LULU.19o
MTKU	10/11/19 1200hrs UTC	7days	Phase 1	MATU3130.19o
OGEA	10/11/19 1200hrs UTC	7days	Phase 1	OGEA3130.19o

Positioning



Communications & Community

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

Pacific Geospatial and Surveying Council

Public group · 1.3K members

Overcoming challenges through geospatial
The Pacific Geospatial and Surveying Council (PGSC) is a non-profit organization that promotes the use of geospatial technology in the Pacific region. The council was established in 2018 and has since become a leading voice for geospatial professionals in the region. The council's mission is to promote the use of geospatial technology in the Pacific region and to provide a platform for geospatial professionals to share their knowledge and experiences. The council has a number of initiatives in place, including a biennial conference, a newsletter, and a website. The council is also active in promoting geospatial education and training in the Pacific region. The council's work is supported by a number of sponsors, including Esri, Trimble, and the United Nations. The council is a member of the International Federation of Surveyors (FIG) and the International Geospatial Standards Organization (IGSO).

Leizyanne Hicks shared a post.
November 16 at 9:31 PM · 🌐

g World GIS Day and the Geospatial field on Fiji TV this morning!

View insights 850 post reach >

👍❤️ Celine Becker, Jeff Aquilina and 42 others 2 Shares

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Mapping our Pacific Geospatial Future

Sava | 21 June 2022 | 🌐 📺 📷



One Pacific One Map



24 Pacific Countries
and Territories

30 million people

42 million square
kilometres

30% of the world's
Exclusive Economic
Zones

Thank You and Vinaka Vaka Levu

Mr Andrick Lal

SPC Pacific Geospatial & Surveying Council (PGSC) Partnership Desk

Email: pgsc_desk@spc.int

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