Positioning in the Pacific Islands

Andrick Lal & Salesh Kumar

Geoscience Division – Pacific Community (SPC)

Suva, Fiji Islands.



FIG Working Week 2016

CHRISTCHURCH, NEW ZEALAND 2-6 MAY 2016

Recovery

from disaster

Organised by





Platinum Partners







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Recovery

from disaster

- Introduction
- History
- Positioning in the Pacific Islands
- Challenges
- Future Directions













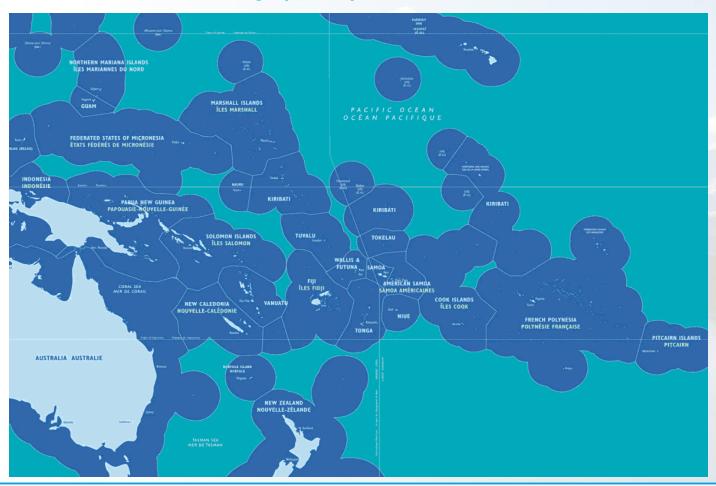


CHRISTCHURCH, NEW ZEALAND 2-6 MAY 2016

Recovery

from disaster

Pacific Community (SPC) Member Countries

















CHRISTCHURCH, NEW ZEALAND 2-6 MAY 2016

Recovery

from disaster

SPC Geoscience Division Goal

"to apply geoscience and technology to realise new opportunities for improving livelihoods of Pacific communities."



SPC Headquarters: Noumea. Regional Offices: Suva, Fiji Islands and Pohnpei, Federated States of Micronesia.

Country Office: Honiara, Solomon Islands.

For contact details - Website: www.spcint Email: spc@spc.int











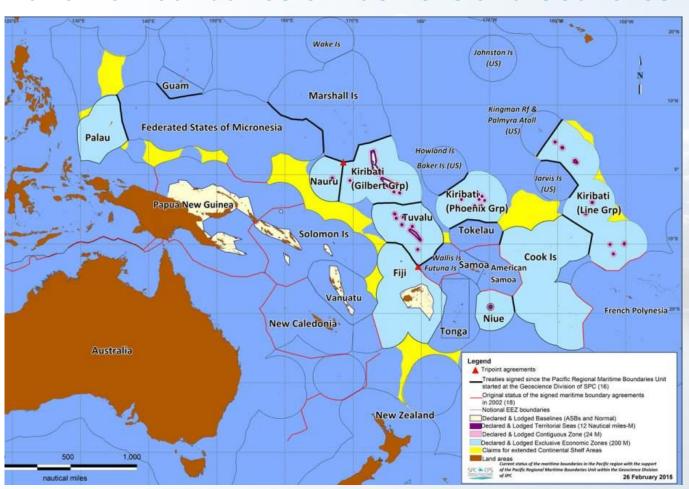


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Recovery

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Maritime Boundaries of Pacific Island Countries



















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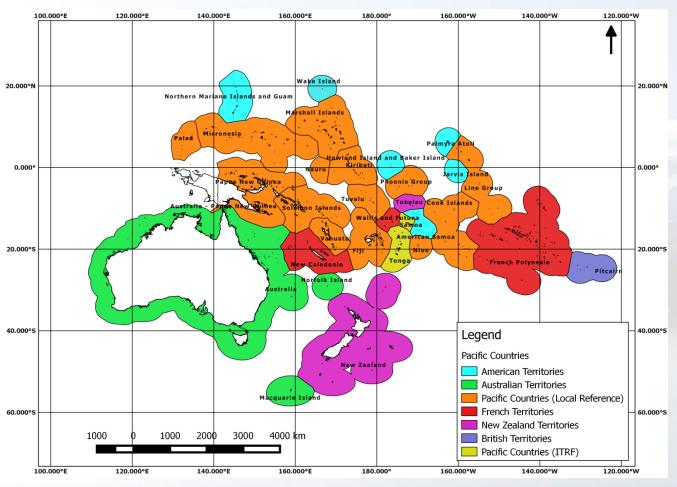


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Geodetic Reference Frame - Pacific















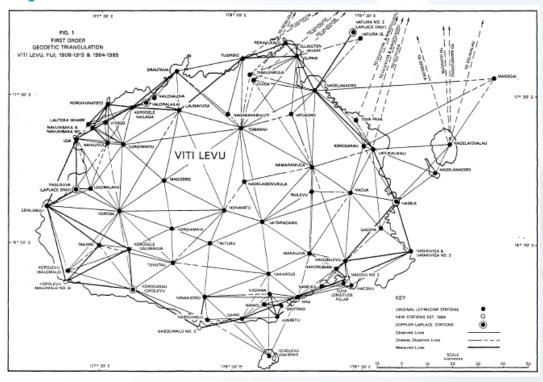


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Recovery

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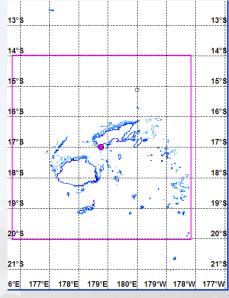
Fiji Islands Geodetic Reference Frame



THE DEFINITION AND ADJUSTMENT OF THE FIJI GEODETIC DATUM -1986

J. Hannah and J. Maseyk

Department of Survey and Land Information, Wellington, New Zealand



Fiji Map Grid (FMG1986 is based on the Gauss-Krüger Transverse Mercator projection where:

Latitude of Origin = 17° 00' South

Central Meridian = 178° 45' East

Scale Factor at Origin = 0.999854

False Northing = 4 000 000m

False Easting = 2 000 000m

Ellipsoid of reference = WGS 72

where a = 6378135m

1/f = 298.26





Platinum Partners:







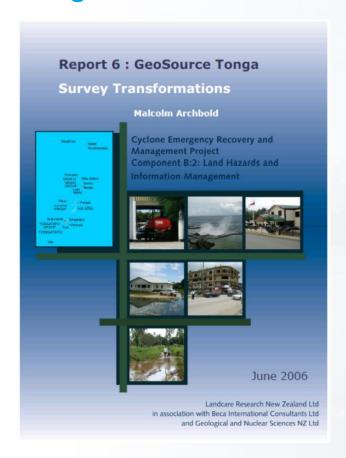


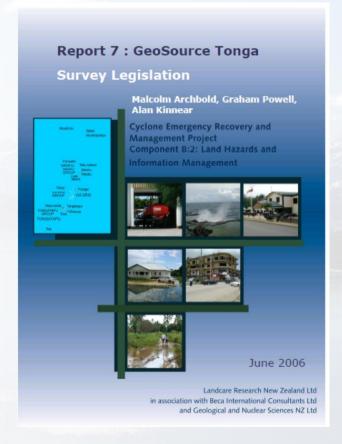
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Tonga Geodetic Reference TGD2005

















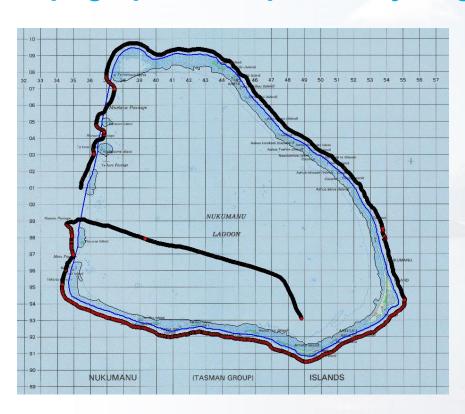


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Recovery

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Topographical Maps and Hydrographic Charts



















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Recovery

from disaster

Hydrographic Surveys

















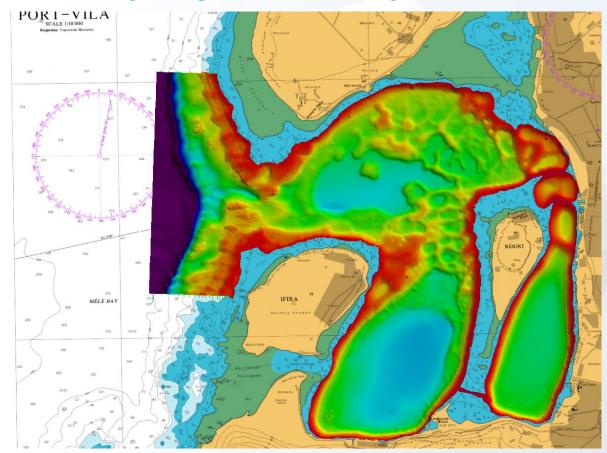


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Recovery

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Vanuatu Hydrographic Surveys















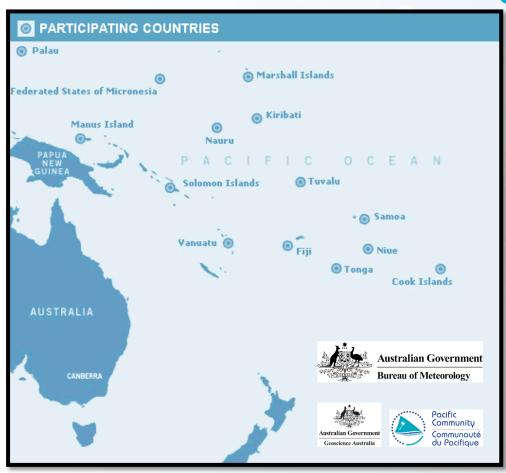


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Recovery

Pacific Sea Level Monitoring Project

from disaster





GNSS Station



Tide Gauge Station















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Recovery

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Challenges

- Natural Disasters
- Climate Change
- Sea Level Changes
- Urban Development

















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Recovery

from disaster

Future Directions

- Geodetic Infrastructure
- Global Geodetic Reference Frame (UN Resolution A 69/266)
- Geodetic Registry
- Capacity Development















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Geodetic Infrastructure underpins Infrastructure

















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Recovery

from disaster

Pacific Geospatial & Surveying Council

Cook Islands, Federated States of Micronesia, Fiji, Kiribati, Marshall Islands, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu

Vision

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

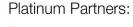
Mission

- Building the capacity of regional surveyors
- Improving and standardising geospatial information gathering and dissemination
- Maximising economic growth and alleviating poverty
- Informing natural resource management, disaster risk management and climate change adaptation

http://gsd.spc.int/pgsc/













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Recovery

from disaster

Vinaka.....



Pacific Geospatial and Surveying Council Nov 2015









