



Climate and Oceans Support
Program in the Pacific

COSPPac: Climate and Oceans Support Program in the Pacific

Pacific Meteorological Council 4

Honiara, Solomon Islands, 14 – 16 August 2017

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About COSPPac

COSPPac is funded by the Australian Government and implemented by the Bureau of Meteorology.

COSPPac partners with many other agencies to deliver the Program: the Australian Government Department of Foreign Affairs and Trade, Geoscience Australia, the Pacific Community (SPC) and the Secretariat of the Pacific Regional Environment Programme (SPREP).



Australian Government

Department of Foreign Affairs and Trade

Bureau of Meteorology

Geoscience Australia



**Pacific
Community**
Communauté
du Pacifique



SPREP
Secretariat of the Pacific Regional
Environment Programme



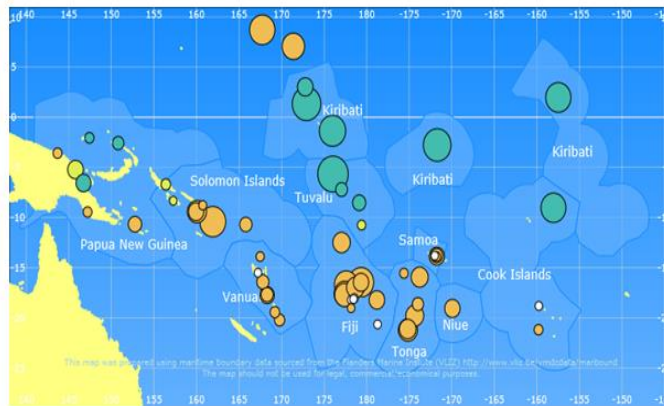
COSPPac overview

COSPPac was originally a 4 year program (with a 2 year extension) major components are:

- Climate and Ocean Products and Services
- Pacific Sea Level Monitoring
- Capacity Development through Training and Support
- CliDE (data management system)

scopic Spatial Summary

Seasonal Climate Outlook for the period January to March 2015



Legend

- Orange bubble: Bias towards below-normal rainfall
- Green bubble: Bias towards above-normal rainfall
- White bubble: No bias in forecast (Climatology)
- Larger "bubbles" represent higher forecast skill (based on LEPS scores)

Ocean Portal

[Learn more about COSPPac](#)

Tourism

Ocean Climate

Coral Reefs

Sea Level

Fisheries

Shipping



Climate and Ocean Support Program in the Pacific (COSPPac)

Seasonal Rainfall Watch: November 2014-January 2015



Alert Level	Divisions with Below Normal Rainfall favoured in the coming 3 months	Alert Level	Divisions with Above Normal Rainfall favoured in the coming 3 months
Dark Red	Samoa	Light Blue	Solomon Is. (Western Region)
Dark Red	Cook Islands (Southern), Vanuatu (Southern)	Dark Blue	Cook Islands (Northern), Solomon Is. (Central and Eastern Regions), Tuvalu

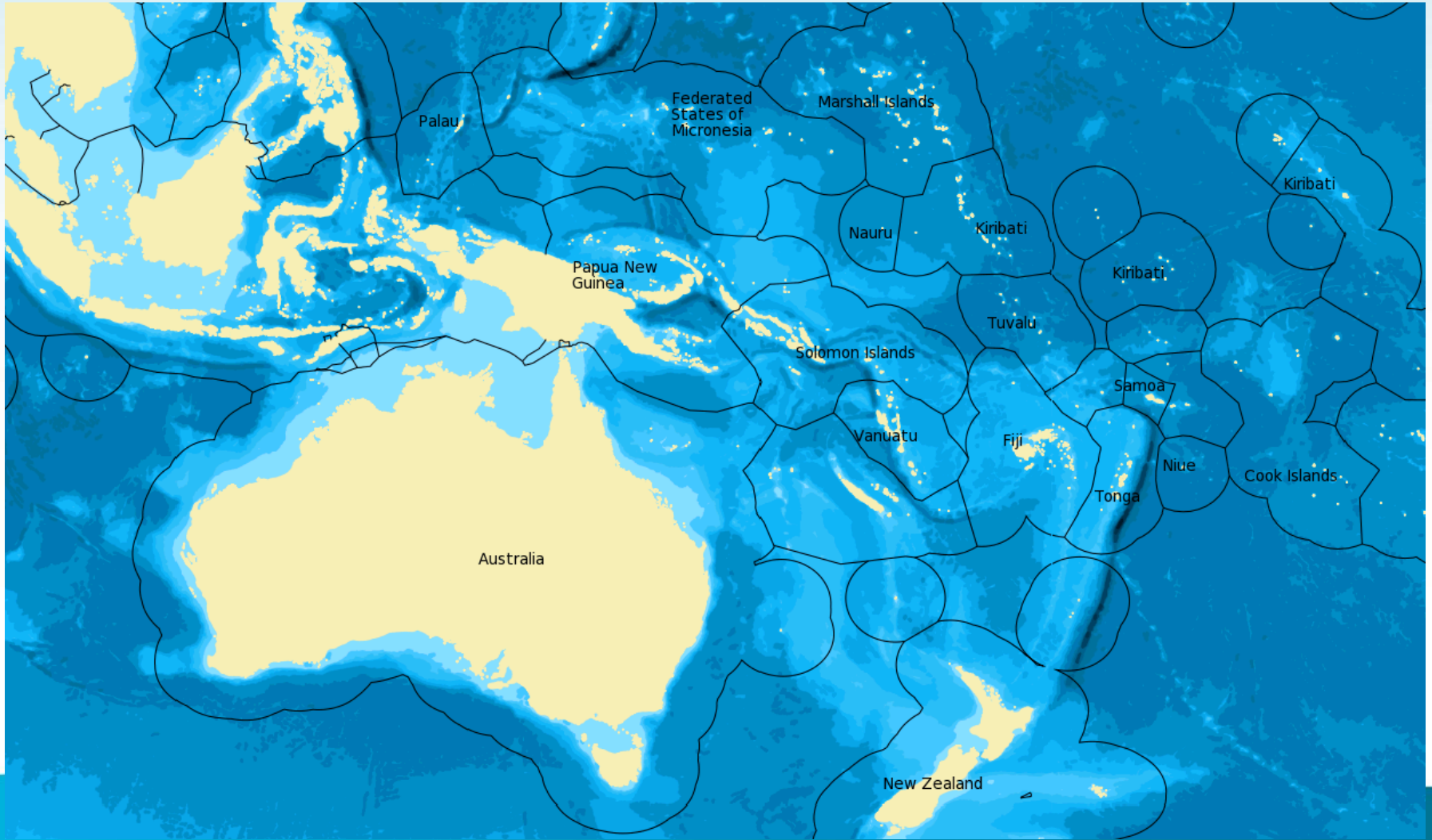
List of Divisions:

- | | | |
|----------------------------|------------------------------|---------------------------|
| Cook Islands (Northern) | Marshall Islands | Tonga (Northern Division) |
| Cook Islands (Southern) | Niue | Tonga (Central Division) |
| Fiji (Western Division) | PNG (Momose Region)* | Tonga (Southern Division) |
| Fiji (Central Division) | PNG (Islands)* | Tuvalu |
| Fiji (Eastern Division) | PNG (Southern Region)* | Vanuatu (Northern Region) |
| Fiji (Northern Division) | Samoa | Vanuatu (Southern Region) |
| Kiribati (Western Islands) | Solomon Is. (Western Region) | |
| Kiribati (Central Islands) | Solomon Is. (Central Region) | |
| Kiribati (Eastern Islands) | Solomon Is. (Eastern Region) | |



14 Partner Pacific Island Countries

Cook Islands, FSM, Fiji, Kiribati, Marshall Islands, Niue, Nauru, PNG, Palau, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu



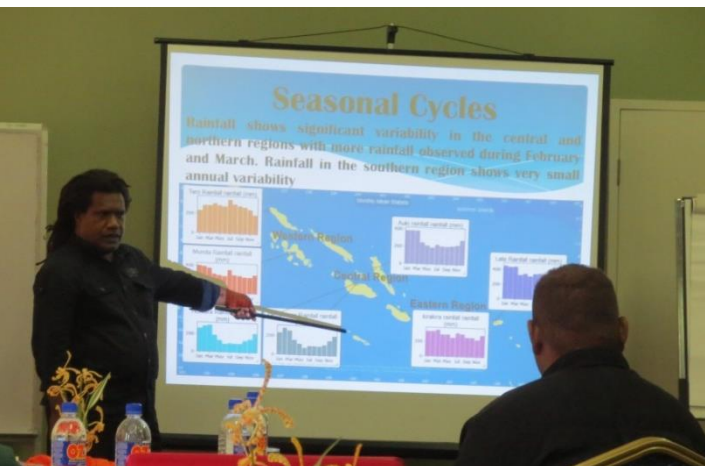


Transition of products and services

The additional 2 year extension priority is transitioning of COSPPac's products and services to the Pacific regional partners following recommendation from the mid-term review.

Transition & activity update:

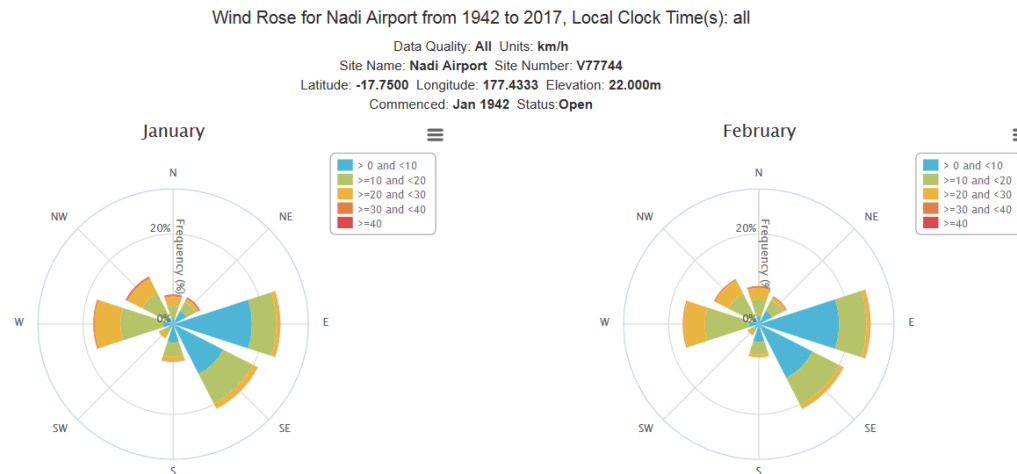
- Recruitment of positions in SPC and SPREP are now complete with the transition of products and services underway
- Sea level monitoring gauge update
- CliDE, and what's next?





CliDE progress

- CliDE v4.2 released in early July 2017.
- Currently working with NOAA to set-up auto-ingest of daily and sub-daily data in north Pacific.
- Three-week IT capacity building workshop to be held at USP in Jan. 2018.
- Three countries to receive assistance with data rescue and additional CliDE training.
- v4.3 to be released in Jun. 2018. Will contain bug fixes and several new features. Administrative and user manuals will also be updated.





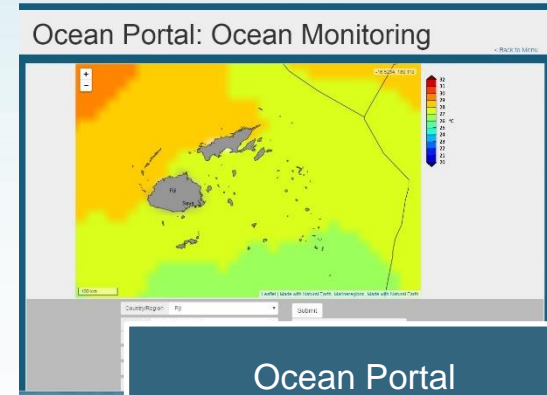
Pacific Sea Level Monitoring and Ocean Services Transition (SPC)



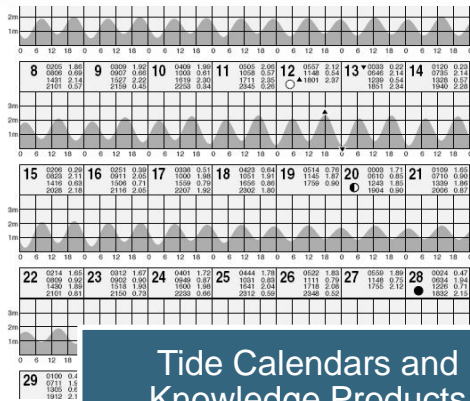
Sea Level Monitoring Station Calibration and Maintenance



Levelling Surveys and Surveyor Capacity Building



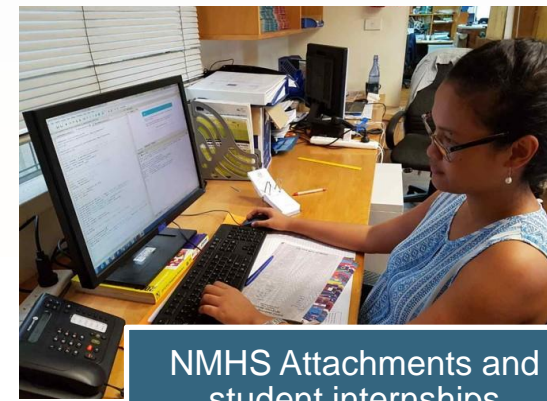
Ocean Portal



Tide Calendars and Knowledge Products



Ocean and Tides Capacity Building



NMHS Attachments and student internships

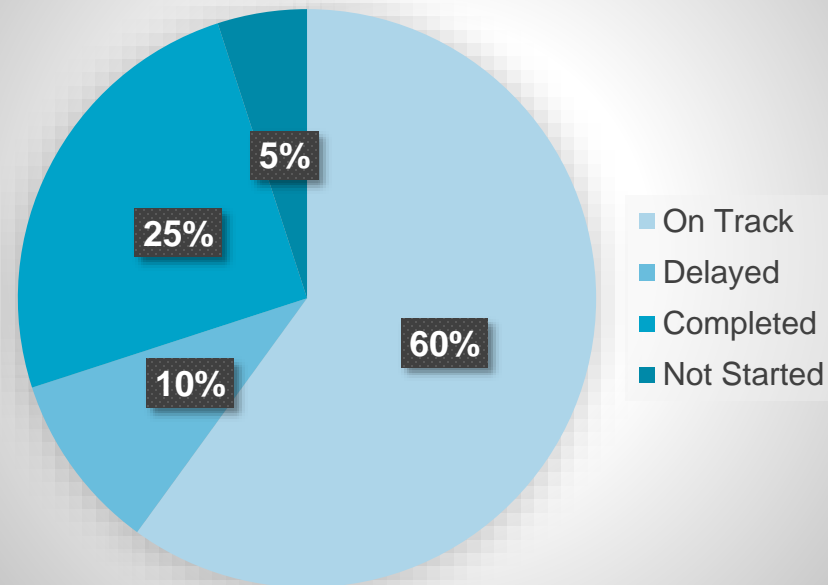


Pacific Sea Level Monitoring and Ocean Services Transition (SPC)

Opportunities:

- Workshops synergies with in some countries (CIFDP, PREP)
- NMS attachments to follow up on lessons from workshops
- Link Ocean Portal with upcoming SPC Ocean Science Centre
- Leverage launches of PGSC Strategy and Ocean Portal to promote these areas

Transition Progress





SPREP Transition (Feb 2016)

Climate and Oceans Support Services

- Climate and Oceans Prediction Services
- Seasonal Climate Outlook for Pacific Island Countries (SCOPIIC)
- Monthly Climate Outlook Forum
- Red Cross Alerts



IT Support services

- Traditional Knowledge Database
- Website development



Climate Communications Services

- Communication strategy
- Publication and Communication development support





Traditional Knowledge

- Data Collection, monitoring
- Research and publications

Bulletin of the American Meteorological Society
Protocols and partnerships for engaging Pacific Island communities in the preservation of traditional climate knowledge
--Manuscript Draft--

Manuscript Number:	
Full Title:	Protocols and partnerships for engaging Pacific Island communities in the preservation of traditional climate knowledge
Article Type:	Author Proposal
Manuscript Classifications:	1.144: South Pacific Ocean; 4.104: Climate Change; 10.052: Communications/Decision making Science
Corresponding Author:	Philip Malsale, MEnvSci SPREP Apia, SAMOA
Corresponding Author's Institution:	SPREP
Order of Authors:	Philip Malsale, MEnvSci Nuel Kanou



Pacific Met Desk Partnership Support Services

- Training / attachment
- PIMS and Roadmap development support
- National Climate Outlook Forum (NCOF) / PICOF
- National Website development

Staff Recruitment

- 5 full time staff





COSPPac alignment with PIMS

PKO 4: Strengthened NMHS capacity to implement MHEWS

- Hazard detection, monitoring, data sharing and forecasting
- Disseminating timely and authoritative warnings
- MHEWS research and traditional knowledge

PKO 5: NMHS contribution to climate change activities

- NMHSs engage in national climate change plans, policies and forums
- NMHS engagement in climate change research and scenario risk analyses

PKO 8: Integrated Observing and Communication Systems

- Network Coverage (marine)
- Observing System Operation and Maintenance
- Communications including implementation of WIS
- Capacity development for observing and communication systems

PKO 9: NMHS institutional strengthening and capacity development

- Communication
- Technical education, training and research

PKO 10: PMC is an efficient and effective body

- Strategic partnership and PMC participation
- Safety of NMHS personnel



COSPPac alignment with PRSCS (PIMS PKO 6)

PKO 6: Improved climate information and prediction services through the implementation of the pacific roadmap for strengthened climate services (PRSCS)

User Interface Platform

- Communication, Traditional Knowledge, PICO, NCOF

Climate Services Information System

- SCOPIC, CLiDE

Observation and Monitoring

- PSLM tide gauges, Ocean Portal, PSLM Portal

Research, Modelling and Prediction

- SCOPIC, Traditional Knowledge

Capacity Development

- CDC work

Priority Areas for the Pacific: Agriculture and Food Security, Disaster Risk Management, Energy, Health, Water, Fisheries and Aquaculture

- Climate outlook and SCOPIC drought monitor
- Samoan Water Storage forecasting tool
- Solomon Islands Climate Early Warning for Malaria (MalaClim)
- Ocean Portal



Recommendation

The meeting is invited to:

- **Note** the update on COSPPac activities and transition progress.
- **Acknowledge** the collaborative effort and successful transition of COSPPac activities with SPC, SPREP and the partner country NMHSs.