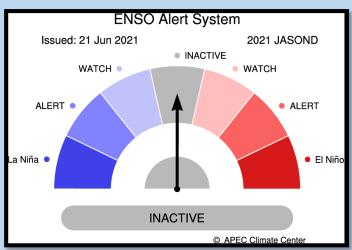
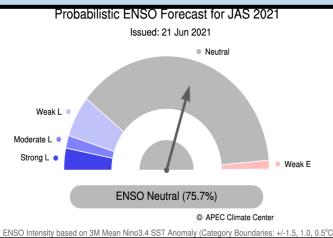
Summary: July to September 2021 (JAS)

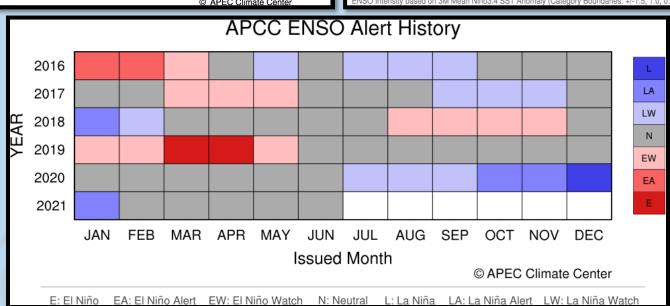
### Climate Outlook for July ~ December 2021

- The APCC ENSO Alert suggests "INACTIVE". During May 2021, negative sea surface temperature anomalies were observed over the equatorial Pacific. The negative Niño3.4 index around decreasing from -0.16°C to -0.53°C is expected during July December 2021. Based on the running 3-month mean Niño3.4 index, the latest APCC ENSO outlook suggests ENSO neutral conditions with a decreasing chance from 76% to 58% during the forecast period.
- Strongly enhanced probability for above normal temperatures is predicted for Micronesia, Melanesia (excluding equatorial region) and southern Polynesia for July December 2021.
- Enhanced probability for below normal precipitation is predicted for off-equatorial southern region of Pacific Islands for July –
  December 2021.
- Please see <a href="https://apcc21.org/ser/outlook.do?lang=en">https://apcc21.org/ser/outlook.do?lang=en</a> for more information.

#### **ENSO**







### PICASO & CLIK® Summary: July to September 2021 (JAS)

### RAINFALL OUTLOOK

Model	PICASO	CLIK®	
Status	COUNTRY (Area)		
Above Normal	Fiji – (Udu Point, Suva) FSM – (Chuuk) Republic of Marshall Island – (Majuro) Niue – (Hanan Airport) Palau – (Koror) PNG – (Madang, Port Moresby, Misima, Nadzab, Momote, Kavieng) Samoa – (Lauli'i, Afiamalu, Faleolo) Solomon Is – (Munda, Auki, Honiara, Henderson, Kirakira, Santa Cruz) Tonga – (Lupepau'u, Nukualofa) Vanuatu – (Port Vila, Sola, Pekoa, Lamap, Bauerfield, White Grass, Aneityum)	Cook Is – (Rarotonga) Fiji – (Suva, Nadi, Ono-i-lau, Nabowalu, Udu Point) FSM - (Pohnpei) Republic of Marshall Island Niue PNG – (Port Moresby, Momote, Misima, Nadzab, Madang) Samoa Solomon Island – (Honiara, Henderson) Tonga Vanuatu	
Normal	Fiji – (Nabouwalu, Nadi) FSM – (Pohnpei) Kiribati – (Butaritari, Kiritimati) Republic of Marshall Island – (*Kwajalein) Samoa – (Apia) Solomon Island – (*Taro Is.) Tonga – (Haapai)	FSM - (Chuuk) Fiji – (Rotuma) Kiribati Palau Solomon Island – (Kirakira, Santa Cruz)	
Below Normal	Cook Is - (Rarotonga, Penrhyn)  Fiji - (Ono-i-lau, Rotuma)  FSM - (Yap)  Kiribati - (Tarawa, Kanton)  Republic of Marshall Island - (*Kwajalein)  Nauru  Solomon Island - (*Taro Is.)  Tonga - (Niuafo'ou, Keppel Mata'aho)  Tuvalu - (Funafuti, Nui, Nanumea, Niulakita)	Cook Is - (Penrhyn) FSM - (Yap) Nauru PNG - (Kavieng) Solomon Island - (Auki, Munda, Taro Island) Tuvalu Tokelau	

Note: \* indicate stations that have equal or similar probability of getting Above normal, Normal and Below normal

### **TEMPERATURE OUTLOOK**

Status	COUNTRY	
	CLIK®	
Above Normal	Cook Is (Rarotonga, southern group), FSM, Fiji, Marshall Is, Kiribati - (Tarawa, Butaritari), Nauru, Niue, Palau, PNG, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu.	
Normal	Cook Is (Penrhyn, northern group), Kiribati - (Kanton, Kiritimati), Tokelau	
Below Normal		

### **PICASO Regional Rainfall Forecast (JAS)**

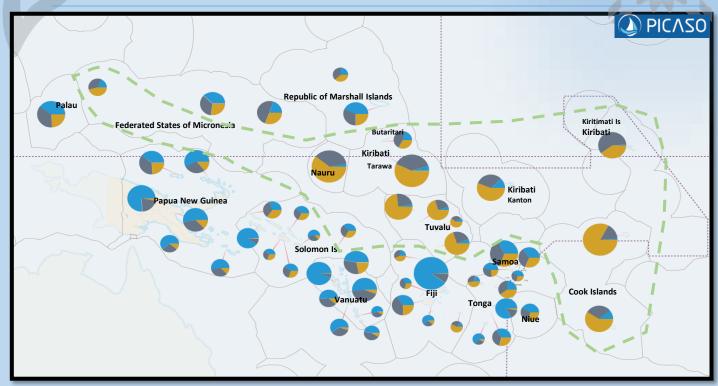
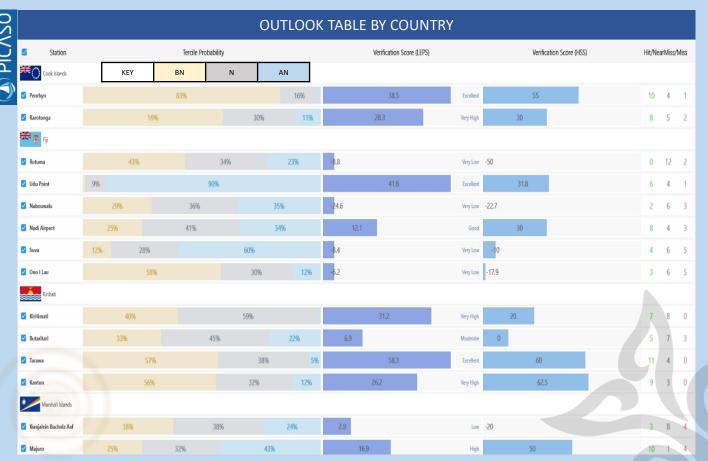


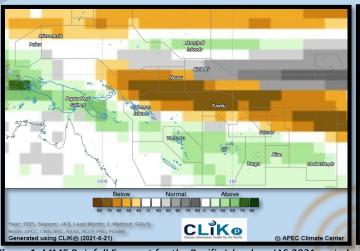
Figure 1: Regional outlook map of the Pacific. In general, all stations enclose within the green-dash line anticipated to have Below Normal (BN) rainfall. Normal (N) to Above Normal (AN) rainfall is predicted for stations outside the green-dashed line. (Note: the larger the pie chart the higher the forecast skills.)



**PICASO Regional Rainfall Forecast (JAS)** 



### **CLIK® Rainfall Forecast (JAS)**



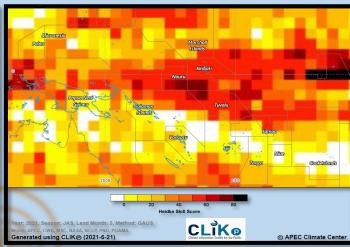


Figure 1: MME Rainfall Forecast for the Pacific Islands – JAS 2021 period

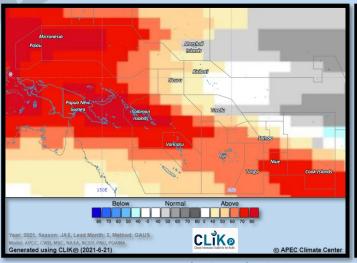
Figure 2: Rainfall Forecast Skill for the Pacific Islands – JAS 2021 period

<b>ure 1:</b> MME Rainfall Forecast for the Pacific Islands – JAS 2021 period <b>Figure 2:</b> Rainfall Forecast Skill for the Pacific Islands – JAS 2021 period					
Country	Rainfall Outlook	Skill			
Cook Islands	Below Normal - Penrhyn Above Normal - Rarotonga	Moderate Very Low			
FSM	Above Normal – Pohnpei Normal – Chuuk Below Normal – Yap	Moderate Low Very Low			
Fiji	Normal - Rotuma Above Normal elsewhere	Very Low – Low			
Kiribati	Normal	High			
Marshall Islands	Above Normal	Moderate			
Nauru	Below Normal	High			
Niue	Above Normal	Very Low			
Palau	Normal	Very Low			
PNG	Below Normal – (Kavieng) Above Normal (Elsewhere)	High – Momote & Kavieng Very Low – Low			
Samoa	Above Normal	Very Low			
Solomon Islands	Above Normal - (Honiara/Henderson) Normal – (Kirakira, Santa Cruz) Below Normal – (Taro Is, Munda, Auki)	Very Low – Moderate			
Tonga	Above Normal	Very Low			
Tokelau	Below Normal	High			
Tuvalu	Below Normal	High			
Vanuatu	Above Normal	Low - Moderate			

#### **Table 1:** Rainfall Outlook and Skill for the Pacific Islands.

Note: Variation in the skill is due to model agreement and data availability at each location.

### **CLIK®** Temperature Forecast (JAS)



CLiKo

period

Figure 3: MME Temperature Forecast for the Pacific Islands – JAS 2021 Figure 4: Air Temperature Forecast Skill for the Pacific Islands – JAS 2021 period

Country	Air Temperature Outlook	Skill
Cook Islands	Normal (north) Above Normal (south)	Low
FSM	Above Normal	Very Low - Low
Fiji	Above Normal	Low - High
Kiribati	Above Normal (Tarawa/Butaritari) Normal (Kiritimati/Kanton)	Moderate - High
Marshall Islands	Normal - Above Normal	Low - Moderate
Nauru	Above Normal	High
Niue	Above Normal	Low
Palau	Above Normal	Low
PNG	Above Normal	Very Low - Moderate
Samoa	Above Normal	Very Low
Solomon Islands	Above Normal	Moderate - High
Tonga	Above Normal	Low - Moderate
Tokelau	Normal	Low
Tuvalu	Normal - Above Normal	Low - High
Vanuatu	Above Normal	Low

**Table 2:** Temperature Outlook and Skill for the Pacific Islands.



#### **Important:**

This publication is developed from information in PICASO and CLIK®, products of the Republic of Korea-Pacific Islands Climate Prediction Services Project (ROK-PI CliPS).

This resource is compiled to provide dynamical model data to support and complement information generated by Pacific Islands NMHS.

Contact your location Meteorology Service for site specific forecasts.

#### **PICASO**

PICASO (Pacific Island Countries Advanced Seasonal Outlook) is a PC-based seasonal prediction tool tailored for the Pacific Island countries jointly developed by APCC and SPREP through the ROK-PI CliPS project.

PICASO produces probabilistic forecasts of the seasonal mean rainfall of the given weather stations by customizing the data from the APCC dynamical seasonal prediction multi-model ensemble.

#### **CLIK®**

The rainfall and temperature forecasts are derived from a multi-model ensemble (MME) of all available Dynamical Models that are provided by WMO Global Producing Centers (GPCs) available on the Climate Services Toolkit for the Pacific (CLIK Pacific or CLIK®).

CLIK® is a product of the Republic of Korea-Pacific Islands Climate Prediction Services Project (ROK-PI CliPS).

Visit the CLIK® Online Climate Prediction System: clikp.sprep.org

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