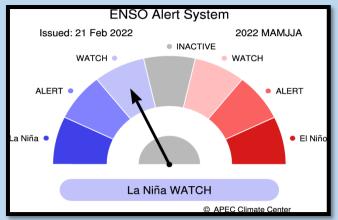
**Summary: March to May 2022 (MAM)** 

### Climate Outlook for March ~ August 2022

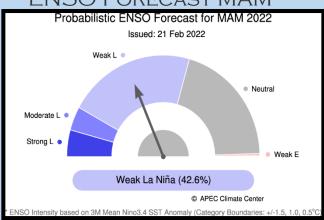
- The APCC ENSO Alert suggests "La Niña WATCH" for March-August 2022. During January 2022, negative sea surface temperature anomalies were observed over the central and eastern equatorial Pacific. The Niño3.4 index is expected to be below -0.5°C and gradually increase through the forecast period. Based on the running 3-month mean Niño3.4 index, the latest APCC ENSO outlook suggests an around 59% chance of La Niña conditions with weak intensity for March-May 2022, which gradually decreases. Meanwhile, ENSO-neutral conditions are likely to be gradually increasing and then dominant (~56%) during June August 2022.
- Strongly enhanced probability for above-normal temperatures is predicted for Micronesia and Melanesia (excluding the boundary between them near the Date Line), and southern Polynesia for March-August 2022.
- Strongly enhanced probability for below-normal precipitation is predicted for the equatorial regions for the same period.
- 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**

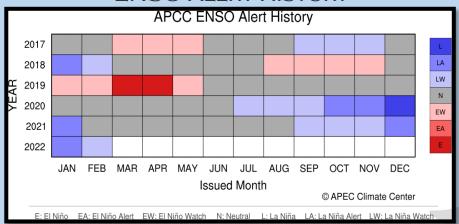
#### **CURRENT STATUS**



#### **ENSO FORECAST MAM**



#### **ENSO ALERT HISTORY**



## **PICASO & CLIK® Summary**

### **RAINFALL OUTLOOK**

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

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

## **TEMPERATURE OUTLOOK: CLIK® toolkit**

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

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

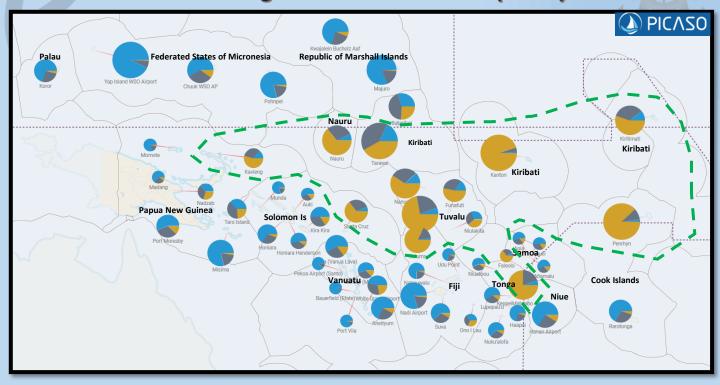


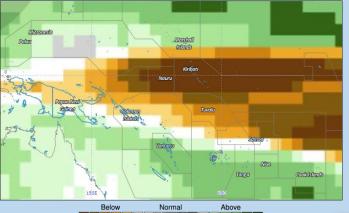
Figure 1: Regional outlook map of the Pacific. In general, all stations enclose within the green-dash line anticipated to have Below Normal (BN) rainfall. Normal (N) to Above Normal (AN) rainfall is predicted for stations outside the green-dashed line. (Note: the larger the pie chart the higher the forecast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



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



**CLIK® Rainfall Forecast (MAM)** 



CLIKO
Clinate Information Tools for the Pacific

Year: 2022, Season: MAM, Lead Month: 3, Method: GAUS Model: APCC, CMCC, CWB, NASA, NCEP, PNU, POAMA Generated using CLIK(\*) (2022-2-23)

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n: MAM, Lead Month: 3, Method: GAUS

© APEC Climate Center

igure 1: MMF Rainfall Forecast for the Pacific Islands - MAM 2022 period

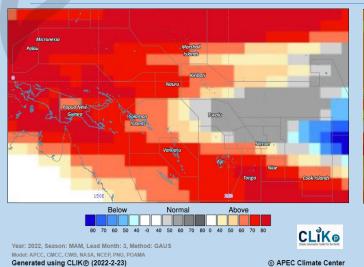
Generated using CLIK® (2022-2-23)

Figure 1: MME Rainfall Forecast for the Pacific Islands — MAM 2022 period Figure 2: Rainfall Forecast Skill for the Pacific Islands — MAM 2022 period					
Country	Rainfall Outlook	Skill			
Cook Islands	Below Normal - Penrhyn Above Normal - Rarotonga	Very Low - Moderate			
FSM	Above Normal	Very Low - High			
Fiji	Above Normal except Rotuma (BN)	Very Low - High			
Kiribati	Below Normal	Very Low - High			
Marshall Islands	Above Normal	Very Low			
Nauru	Below Normal	Very High			
Niue	Above Normal	Very Low			
Palau	Above Normal	High			
PNG	Below Normal –Momote, Kavieng, Madang Above Normal – Port Moresby, Nadzab, Misima	Very Low - High			
Samoa	Outlook offers little guidance as the chance of AN/NN/BN are similar.	Moderate			
Solomon Islands	Below Normal – Taro Is., Munda, Auki Note – Outlook offers little guidance elsewhere.	Very Low - Moderate			
Tonga	Above Normal – Nukualofa, Haapai, Lupepauu Little guidance for Keppel Mataaho, Niuafoou	Very Low - Low			
Tokelau	Below Normal	Low			
Tuvalu	Below Normal	Very Low - Moderate			
Vanuatu	Above Normal	Very Low - Low			

**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 (MAM)**



Marshall Islands

Papus New Solomon

So

Year: 2022, Season: MAM, Lead Month: 3, Method: GAUS Model: APCC, CMCC, CWB, NASA, NCEP, PNU, POAMA Generated using CLIK⊕ (2022-2-23)

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Figure 3: MME Temperature Forecast for the Pacific Islands – MAM 2022 period

Figure 4: Air Temperature Forecast Skill for the Pacific Islands – MAM 2022 period

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

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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