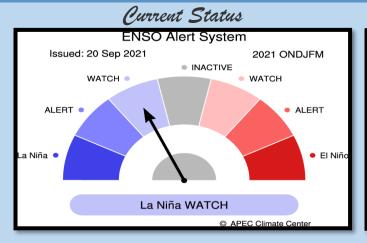
Summary: October to December 2021 (OND)

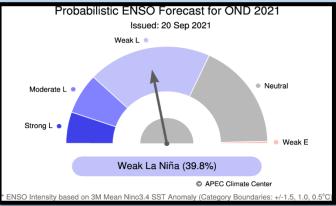
Climate Outlook for October 2021 ~ March 2022

- The APCC ENSO Alert suggests "La Niña WATCH". During August 2021, negative sea surface temperature anomalies were observed over the equatorial Pacific. The Niño3.4 index starting from -0.63 °C is expected to decrease to -0.82 °C and gradually increase to -0.19 °C during the forecast period. Based on the running 3-month mean Niño3.4 index, the latest APCC ENSO outlook suggests a 67% chance of La Niña conditions with weak intensity for October December 2021, which gradually decreases. Meanwhile, ENSO-neutral conditions are likely to be gradually increasing and then dominant during January March 2022.
- Strongly enhanced probability for above normal temperatures is predicted for Micronesia and Melanesia (excluding equatorial region), and southern Polynesia for October 2021 March 2022.
- A tendency for above normal precipitation is predicted for the Pacific Islands (excluding equatorial regions) for the same period.
- Please see https://apcc21.org/ser/outlook.do?lang=en for more information.

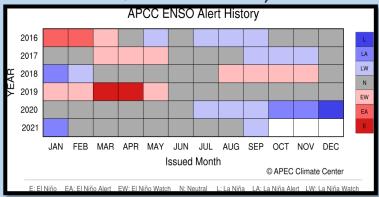
ENSO



ENSO Forecast OND



ENSO Alert History



Republic of Korea-Pacific Islands Climate Prediction Services Project PICASO & CLIK® Summary

RAINFALL OUTLOOK

Model	PICASO	CLIK®	
Status	COUNTRY (Area)		
Above Normal	Cook Islands - (Rarotonga) Fiji - (Ono-i-lau, Nabouwalu, Nadi, Suva, Rotuma) FSM Republic of Marshall Island - (Majuro) Niue Palau PNG Samoa - (Afiamalu, Faleolo, *Apia, *Lauli'i) Solomon Islands Tonga Vanuatu	Cook Islands – (Rarotonga) Fiji FSM Republic of Marshall Island Niue Palau PNG – (Port Moresby, Misima, Nadzab, Madang) Samoa Solomon Islands Tonga Vanuatu	
Normal	Fiji – (Udu Point) Republic of Marshall Island – (Kwajalein)		
Below Normal	Cook Islands - (Penrhyn) Kiribati Nauru Samoa – (*Apia, *Lauli'i) Tuvalu	Cook Islands - (Penrhyn) Kiribati Nauru PNG - (Momote, Kavieng) Solomon Islands - (Auki) Tuvalu Tokelau	

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

TEMPERATURE OUTLOOK: CLIK® toolkit

Status	COUNTRY (Area)
Above Normal	Cook Is (Rarotonga, southern group), FSM, Fiji, Republic of Marshall Is, Kiribati, Nauru, Niue, Palau, PNG, Samoa, Solomon Islands, Tonga, Tuvalu (Nui, Niulakita, Nanumea), Vanuatu.
Normal	Cook Is (Penrhyn, northern group), Tuvalu - (Funafuti), Tokelau
Below Normal	

PICASO Regional Rainfall Forecast (OND)

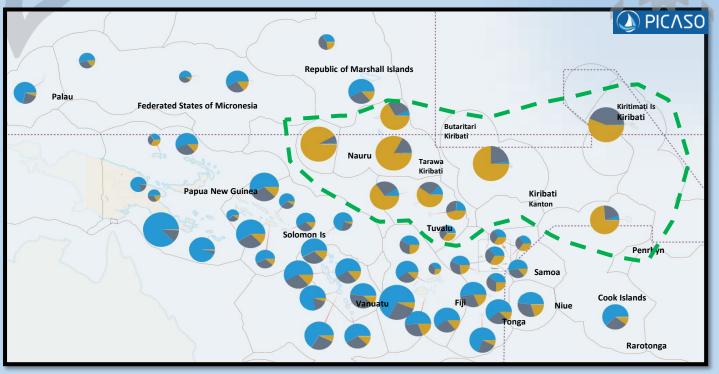


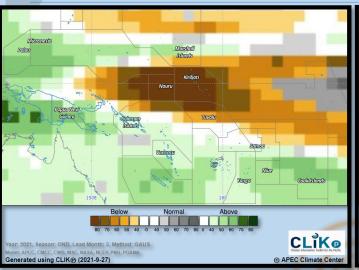
Figure 1: Regional outlook map of the Pacific. In general, all stations enclose within the green-dash line anticipated to have Below Normal (BN) rainfall. Normal (N) to Above Normal (AN) rainfall is predicted for stations outside the green-dashed line. (Note: the larger the pie chart the higher the forecast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

2			OUTLOOK	TABLE BY COU	JNTRY		
Station Station		Tercile Probability		Verification Score	e (LEPS)	Verification Score (HSS)	Hit/NearMiss/Miss
Cook Islands Penrhyn							
Penrhyn		74%	21% 5%	30.1	Very High	55	9 4 2
✓ Rarotonga	10% 28%		62%	24.5	High	50	10 4 1
## Fij							
☑ Rotuma	25%	33%	42%	9.1	Moderate	40	9 2 4
Udu Point	27%	37%	36%	-3.3	Very Low	-9.1	3 5 3
Nabouwalu	12% 28%		60%	13.1	Good	31.8	6 3 2
✓ Nadi Airport	6% 27%		67%	37.1	Excellent	60	11 4 0
Suva	19%	30%	51%	15.8	High	63.3	10 3 2
Ono I Lau	14% 27%	6	59%	19.5	High	46.4	9 5 0
Kiribati							
✓ Kiritimati	569	%	43%	43.8	Excellent	40	9 6 0
☑ Butaritari		67%	27% 6%	27.7	Very High	40	9 6 0
▼ Tarawa		83%	16%	59.1	Excellent	60	11 4 0
✓ Kanton		75%	23% 2	39.3	Excellent	37.5	7 4 1
Marshall Islands							
Kwajalein Bucholz Aaf	23%	43%	34%	1.6	Low	10	6 9 0
✓ Majuro	13% 29%	6	58%	20.3	High	30	8 5 2

PICASO Regional Rainfall Forecast (OND)



CLIK® Rainfall Forecast (OND)



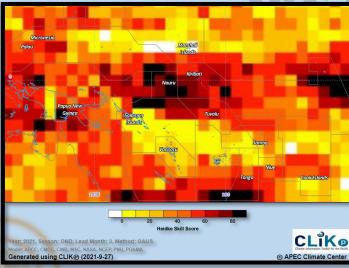


Figure 1: MME Rainfall Forecast for the Pacific Islands – OND 2021 period Figure 2: Rainfall Forecast Skill for the Pacific Islands – OND 2021 period

Country	Rainfall Outlook	Skill
Cook Islands	Below Normal - Penrhyn Above Normal - Rarotonga	Moderate
FSM	Above Normal	Low - Moderate
Fiji	Above Normal	Low – High
Kiribati	Below Normal	Moderate - High
Marshall Islands	Above Normal	Very Low
Nauru	Below Normal	Very High
Niue	Above Normal	Moderate
Palau	Above Normal	High
PNG	Below Normal – (Momote, Kavieng) Above Normal (Elsewhere)	Low/High Moderate – High
Samoa	Above Normal	Low
Solomon Islands	Above Normal	High for Munda and Taro Is. Very Low elsewhere
Tonga	Above Normal	Very Low - Moderate
Tokelau	Below Normal	High
Tuvalu	Below Normal	Moderate - High
Vanuatu	Above Normal	Low

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

CLIK® Temperature Forecast (OND)

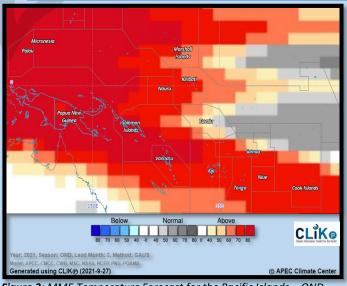


Figure 3: MME Temperature Forecast for the Pacific Islands – OND 2021 period

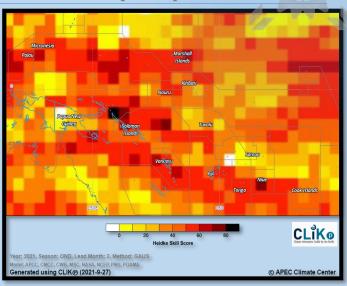


Figure 4: Air Temperature Forecast Skill for the Pacific Islands – OND 2021 period

2021 period	period		
Country	Air Temperature Outlook	Skill	
Cook Islands	Normal (Penrhyn) Above Normal (Rarotonga)	Moderate	
FSM	Above Normal	Moderate - High	
Fiji	Above Normal	Moderate – High	
Kiribati	Above Normal	Low - Moderate	
Marshall Islands	Above Normal	High	
Nauru	Above Normal	High	
Niue	Above Normal	Very High	
Palau	Above Normal	High	
PNG	Above Normal	Low – Madang/Nabzab, High elsewhere	
Samoa	Above Normal	Very Low	
Solomon Islands	Above Normal	Moderate - High	
Tonga	Above Normal	Very Low – Keppel Mataaho/ Niuafoou Moderate - High elsewhere	
Tokelau	Normal	Moderate	
Tuvalu	Normal – Funafuti Above Normal – Nui, Niulakita, Nanumea	Low - Moderate	
Vanuatu	Above Normal	High	



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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