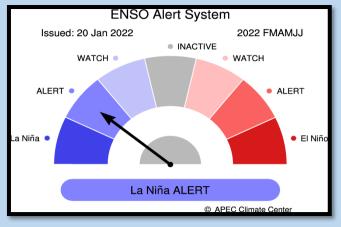
Summary: February to April 2022 (FMA)

Climate Outlook for February ~ July 2022

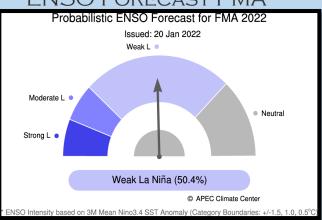
- The APCC ENSO Alert suggests "La Niña ALERT" for February July 2022. During December 2021, negative sea surface temperature anomalies were observed over the central and eastern equatorial Pacific. The Niño3.4 index is expected to be -1.1°C and gradually increase to 0.1°C through the forecast period. Based on the running 3-month mean Niño3.4 index, the latest APCC ENSO outlook suggests an around 74% chance of La Niña conditions with weak intensity for February April 2022, which gradually decreases. Meanwhile, ENSO-neutral conditions are likely to be gradually increasing and then dominant (~58%) during May July 2022.
- Strongly enhanced probability for above normal temperatures is predicted for Micronesia and Melanesia (excluding equatorial region), and southern Polynesia for February July 2022.
- Strongly enhanced probability 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

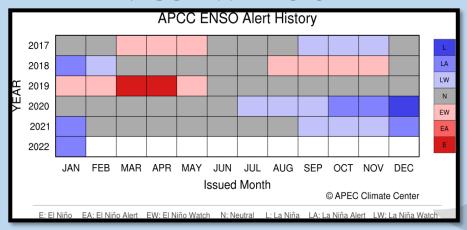
CURRENT STATUS



ENSO FORECAST FMA



ENSO ALERT HISTORY



PICASO & CLIK® Summary

RAINFALL OUTLOOK

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

Note: * indicate stations that have <u>equal or similar probability</u> 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, But Nauru, Niue, Palau, PNG, Samoa, Solomon Islands, Tonga, Tuvalu (Nanumea), Vanuatu.	
Normal	Kiribati (Kiritimati, Kanton), Tuvalu - (Nui, Niulakita, Funafuti), Tokelau
Below Normal	Cook Is (Penrhyn, northern group)

PICASO Regional Rainfall Forecast (FMA)

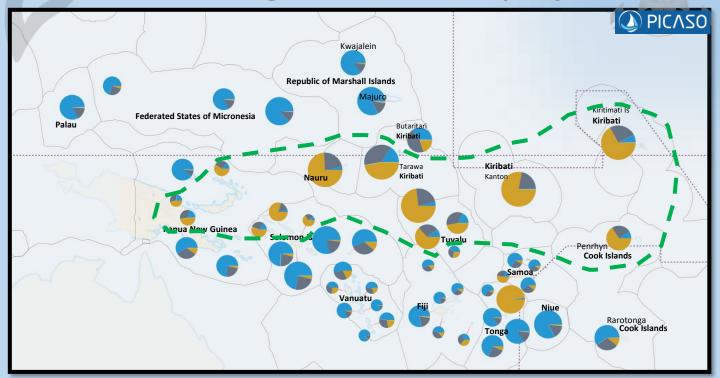


Figure 1: Regional outlook map of the Pacific. In general, all stations enclose within the green-dash line anticipated to have Below Normal (BN) rainfall. Normal (N) to Above Normal (AN) rainfall is predicted for stations outside the green-dashed line. (Note: the larger the pie chart the higher the forecast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

		OUTLOOK T	ABLE BY CO	UNTRY				
Station	Tercile	Probability	Verification Sco	ore (LEPS)	Verification Score (HSS)	Hit/Ne	arMiss/	Mis
Cook Islands	KEY BN	N AN						
Penrhyn	66%	25% 99	22.5	High	71.9	13	2	1
☑ Rarotonga	115 29%	60%	19.1	High	6.3	6	7	1
Fiji								
Rotuma	14% 30%	56%	-8.7	Very Low	-12.5	4	5	1
Udu Point	10 27%	63%	-4.1	Very Low	3.6	3	7	2
✓ Nabouwalu	20%	7796	-9.7	Very Low	31.2	6	1	
Nadi Airport	20%	78%	11.3	Good	25	8	5	
Suva	14% 40%	46%	-4.5	Very Low	-21.9	3	12	
Ono I Lau	35%	33% 32%	-0.3	Very Low	6.3	6	6	
Kiribati								
Kiritimati	67%	26% 7	37.5	Excellent	43.8	10	5	Ţ,
Butaritari	20% 459	6 35%	15.7	High	39.1	8	5	
✓ Tarawa	47%	37% 16%	45.2	Excellent	90.6	15	1	(
✓ Kanton	78%	21%	48	Excellent	60	11	4	1
Marshall Islands								
Kwajalein Bucholz Aaf	129	86%	16.4	High	25	8	6	
Majuro	15%	83%	31.4	Very High	34.4	9	7	-

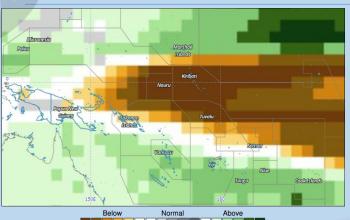
▶ PIC∧SO

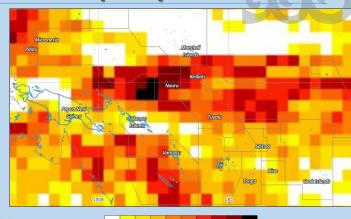
Republic of Korea-Pacific Islands Climate Prediction Services Project

PICASO Regional Rainfall Forecast (FMA)



CLIK® Rainfall Forecast (FMA)





Year: 2022, Season: FMA, Lead Month: 3, Method: GAUS
Model: APCC, CMCC, CWB, NASA, NCEP, PNU, POAMA

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r: 2022, Season: FMA, Lead Month: 3, Method: GAUS el: APCC, CMCC, CWB, NASA, NCEP, PNU, POAMA CLIKO

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Figure 1: MME Rainfall Forecast for the Pacific Islands – FMA 2022 period

Figure 2: Rainfall Forecast Skill for the Pacific Islands – FMA 2022 period

Country	Rainfall Outlook	Skill
Cook Islands	Below Normal - Penrhyn Above Normal - Rarotonga	Very Low - Moderate
FSM	Above Normal	Very Low - Low
Fiji	Above Normal	Low - Moderate
Kiribati	Below Normal	High
Marshall Islands	Above Normal	Very Low
Nauru	Below Normal	Very High
Niue	Above Normal	Low
Palau	Above Normal	Moderate
PNG	Below Normal – Nadzab, Momote, Kavieng, Madang Above Normal – Port Moresby, Misima	Low - High
Samoa	Outlook offers little guidance as the chance of AN/NN/BN are similar.	Low
Solomon Islands	Below Normal – Taro Is., Munda, Auki Note – Outlook offers little guidance elsewhere.	Very Low - Low
Tonga	Above Normal – Nukualofa, Hapai, Lupepauu Normal – Kepel Mataaho, Niuafoou	Low
Tokelau	Below Normal	Low
Tuvalu	Below Normal	Low - Moderate
Vanuatu	Above Normal	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 (FMA)

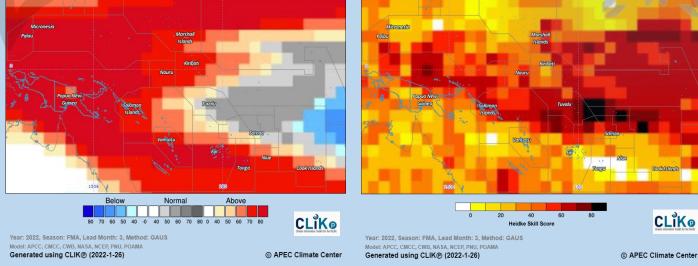


Figure 3: MME Temperature Forecast for the Pacific Islands – FMA 2022 period

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

2022 periou	period	
Country	Air Temperature Outlook	Skill
Cook Islands	Above Normal (Rarotonga) Below Normal (Penrhyn)	Moderate - High
FSM	Above Normal	Low - High
Fiji	Above Normal	Very Low – High
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	Moderate
PNG	Above Normal	Low - High
Samoa	Above Normal	Low
Solomon Islands	Above Normal	High
Tonga	Above Normal	Very Low – Moderate
Tokelau	Normal	Moderate
Tuvalu	Above Normal –Nanumea Normal – Nui, Niulakita, Funafuti	High
Vanuatu	Above Normal	Low – High

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

CONTACT INFORMATION:

For more information, please contact Mr. Tile Tofaeono, Climate Prediction Services Coordinator, SPREP tilet@sprep.org



PO Box 240, Apia, Samoa E: sprep@sprep.org T: +685 21929 F: +685 20231 W: www.sprep.org



