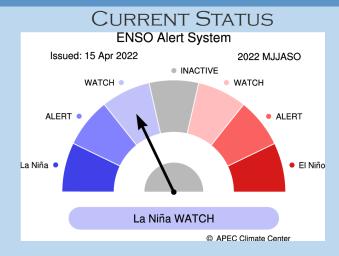
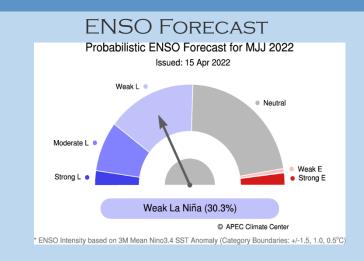
Republic of Korea-Pacific Islands Climate Prediction Services Project Summary: May to July 2022 (MJJ)

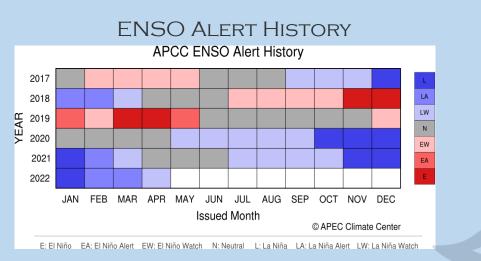
Climate Outlook for May ~ October 2022

- The APCC ENSO Alert suggests "La Niña WATCH" for May October 2022. In February 2022, negative sea surface temperature anomalies were observed over the central and eastern tropical Pacific. The Niño3.4 index is expected to be below -0.7°C and gradually increase to -0.3°C through the forecast period, which suggests ENSO-neutral conditions. Based on the running 3-month mean Niño3.4 index, the latest APCC ENSO outlook suggests an around 51% chance of La Niña conditions with weak intensity for May July 2022. Meanwhile, ENSO-neutral conditions are likely to be intensified and then dominant (>52%) during the last three seasons for the forecast period.
- 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 April September 2022.
- Strongly enhanced probability for below normal precipitation is predicted for the equatorial regions for the same period.
- Please see https://apcc21.org/ser/outlook.do?lang=en for more information.

ENSO







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



RAINFALL OUTLOOK

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

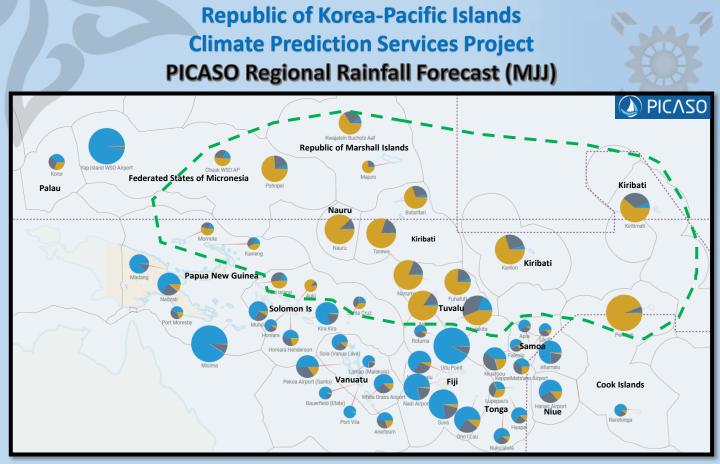


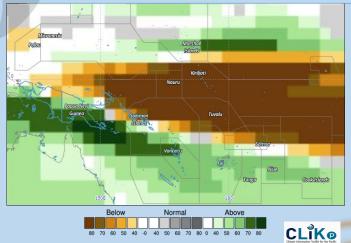
Figure 1: Regional outlook map of the Pacific. In general, all stations enclose within the green-dash line anticipated to have Below Normal (BN) rainfall. Normal (N) to Above Normal (AN) rainfall is predicted for stations outside the green-dashed line. (*Note: the larger the pie chart the higher the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

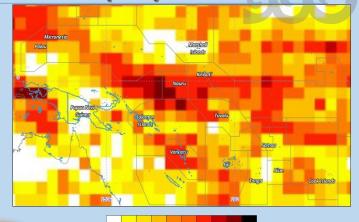
		OUTLOOK TABLE BY COUNTRY						
Station	Tercile Proba KEY BN M		Verification Sc	ore (LEPS)	Verification Score (HSS)	Hit/Nea	arMiss/I	Miss
Rotuma	10 34%	56%	-0.2	Very Low	6.3	6	5	5
🗹 Udu Point	7' 92%		40.7	Excellent	19.2	6	7	0
Nabouwalu	7 27%	66%	12.1	Good	-9.1	3	6	2
Nadi Airport	19% 79	%	23.3	High	57.8	11	4	1
Suva	· 19% 77	7%	31.6	Very High	34.4	9	7	0
🗹 Ono I Lau	119 26%	63%	17.3	High	70	12	0	3
Kiribati								
Kiritimati	61%	33% 6	27.1	Very High	76.6	13	2	1
Mutaritari	70%	26%	13.8	Good	20	7	7	1
Tarawa	80%	19%	31.9	Very High	43.8	10	6	0
Kanton	70%	26% .	25	Very High	46.4	9	5	0
Marshall Islands			_		_			
Kwajalein Bucholz Aaf	66%	27% <mark>7</mark> '	13	Good	15.6	7	7	2
Majuro	74%	20% 6	-5	Very Low	-21.9	3	9	4

Republic of Korea-Pacific Islands Climate Prediction Services Project PICASO Regional Rainfall Forecast (MJJ)

0	Station	Tercile Probability		Verification Sco	re (LEPS)	Verification Score (HS	(S)	Hit/Nea	arMiss/Miss
Ŋ	- Micronesia	KEY BN	N AN						
\leq	Chuuk WSO AP	52%	31% 17%	1.6	Low	48.4	10	2	4
E	Pohnpei	7496	21% 5	22.7	High	57.8	11	3	2
Δ	Vap Island WSO Airport	5	97%	65.3	Excellent	100	16	0	0
	Nauru								
	Nauru	889	6 115	27.3	Very High	14.3	3	4	0
	Niue								
	Hanan Airport	14% 29%	57%	11.7	Good	43.8	10	4	2
	Palau								
	Moror	30% 32	% 38%	1.9	Low	-12.5	-4	7	5
	Papua New Guinea								
	Madang	129	87%	5	Moderate	0	5	7	з
	Port Moresby	19% 39%	42%	-5.8	Very Low	-3.1	5	7	4
	Momote	55%	29% 16%	-0.6	Very Low	25	6	7	3
	Nadzab	119 25%	6496	11	Good	34.4	9	4	3
	Kavieng	42%	30% 28%	-0.9	Very Low	10.9	-4	6	6
	Misima	85	91%	38.2	Excellent	43.8	10	6	0
	Samoa								
	Afiamalu	2196	76%	11.6	Good	48.4	10	4	2
	Z Laulii	14% 31%	5596	-5.7	Very Low	6.3	6	6	4
	Maleolo	139 29%	58%	-2.8	Very Low	-3.1	5	6	5
	Apia	85 29%	63%	-3.3	Very Low	6.3	6	8	2
	Solomon Islands								
	Taro Island	48%	36% 16%	4.6	Low	25	8	7	1
	Munda	8: 24%	68%	6.4	Moderate	25	8	5	3
	 Auki Honiara 	99 25%	66%	-8.7	Very Low	-12.5 6.3	4	7	5
	Honiara Henderson	21% 31%	48%	0.7	Very Low	-3.1	5	6	5
	Kira Kira	19%	79%	13.2	Good	39.1	8	7	1
	Santa Cruz	38%	36% 26%	-2.6	Very Low	6.3	6	6	4
	tonga								
	Niuafoou	20% 39%	41%	13.2	Good	39.1	8	6	2
	KeppelMata'aho Airport	25% 35%	40%	0.8	Low	15.6	5	5	6
	🛃 Lupepau'u	31% 3	8% 31%	4.9	Low	15.6	7	3	6
	Maapai	111 26%	6396	1.1	Low	-3.1	5	7	4
	Nuku'alofa	115 28%	61%	3.9	Low	25	7	7	2
	Tuvalu								
	Nanumea	81%	1796	32.9	Very High	67.2	11	5	0
	Nui Nui	8496	1496	28.6	Very High	25	8	8	0
	Sunafuti	76%	20% -	17.7	High	15.6	7	8	1
	🗹 Niulakita	44%	37% 19%	25.9	Very High	20.3	6	9	1
	Vanuatu								
	Sola (Vanua Lava)	115 26%	63%	4.9	Low	0	4	6	2
	Pekoa Airport (Santo)	15% 34%	51%	11	Good	40	9	3	3
	🗹 Lamap (Malekula)	21%	74%	-5.1	Very Low	3.6	5	6	3
	Bauerfield (Efate)	16%	81%	-3.2	Very Low	-21.9	3	9	4
	Port Vila		1896	-8.1	Very Low	0	5	6	4
	White Grass Airport	129 28%	60%	7.1	Moderate	40	9	4	2
	Aneityum	19% 33%	48%	3.3	Low	6.3	6	9	1

Republic of Korea-Pacific Islands Climate Prediction Services Project CLIK® Rainfall Forecast (MJJ)





Heidke Skill Score

CLĩKo

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Year: 2022, Season: MJJ, Lead Month: 3, Method: GAUS Model: APCC, CMCC, CWB, MSC, NCER, PNU, POAMA Generated using CLIK@ (2022-4-19) Figure 1: MME Rainfall Forecast for the Pacific Islands – MJJ 2022 period Figure 2: Rainfall Forecast Skill for the Pacific Islands – MJJ 2022 period

Country	Rainfall Outlook	Skill	
Cook Islands	Below Normal - Penrhyn Above Normal - Rarotonga	Low - Moderate	
FSM	Above Normal – Pohnpei Normal – Chuuk Below Normal – Yap	Low – Moderate	
Fiji	Above Normal except Rotuma (BN)	Low	
Kiribati	Below Normal	Low – High	
Marshall Islands	Above Normal	Very Low	
Nauru	Below Normal	High	
Niue	Above Normal	Very Low	
Palau	Little guidance (Climatology)	Moderate	
PNG	Below Normal –Momote, Kavieng Above Normal – Port Moresby, Nadzab, Misima, Madang	Very Low - Low	
Samoa	Normal	Low	
Solomon Islands	Below Normal – Taro Is., Munda, Auki, Santa Cruz Above Normal – Honiara, Henderson Normal– Kirakira	Very Low - Low	
Tonga	Above Normal	Very Low - Moderate	
Tokelau	Below Normal	Moderate	
Tuvalu	Below Normal	Very Low - Moderate	
Vanuatu	Vanuatu Above Normal		

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.

Republic of Korea-Pacific Islands Climate Prediction Services Project CLIK® Temperature Forecast (MJJ)

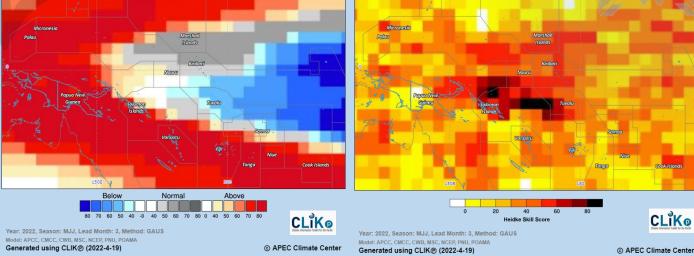
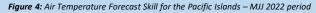


Figure 3: MME Temperature Forecast for the Pacific Islands - MJJ 2022 period



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

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

Republic of Korea-Pacific Islands Climate Prediction Services Project



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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