

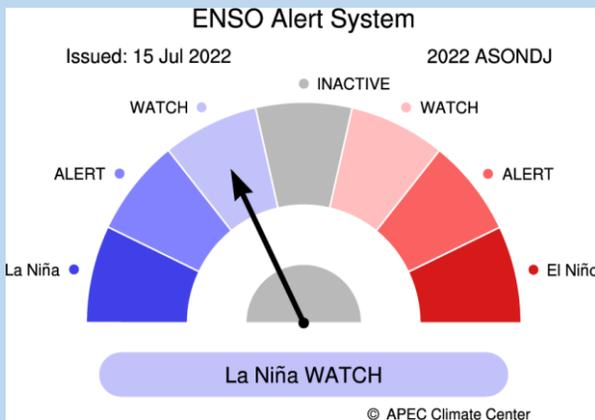


Climate Outlook for August 2022 ~ January 2023

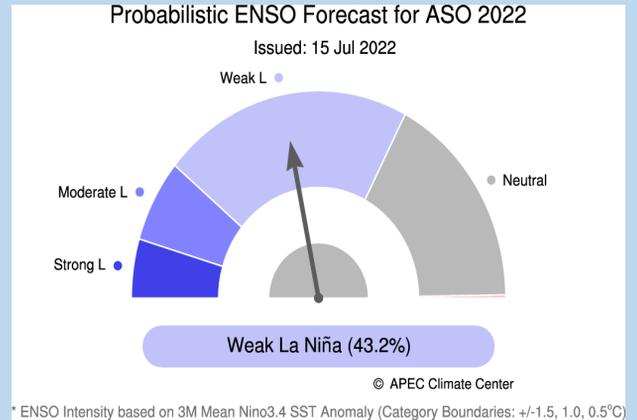
- The APCC ENSO Alert suggests “La Niña WATCH”. In June 2022, negative sea surface temperature anomalies were observed over the tropical Pacific. The Niño3.4 index is expected to be around -0.4°C to -0.8°C from August 2022 – January 2023. For the same period, the probability for La Niña conditions is expected to be above 60% and its intensity is likely to be weak.
- Strongly enhanced probability for above normal temperatures is predicted for Micronesia and Melanesia (excluding the equator), and Polynesia south of 10°S for August 2022 – January 2023.
- Strongly enhanced probability for above normal precipitation is predicted for southern Melanesia during August – October 2022, which is likely to gradually decrease during November 2022 – January 2023. Strongly enhanced probability for below normal precipitation is expected for off-equatorial Polynesia along 10°S and the boundary between Micronesia and Melanesia during the first half of the forecast period, which is also likely to gradually decrease during the remaining period.
- Please see <https://apcc21.org/ser/outlook.do?lang=en> for more information.

ENSO

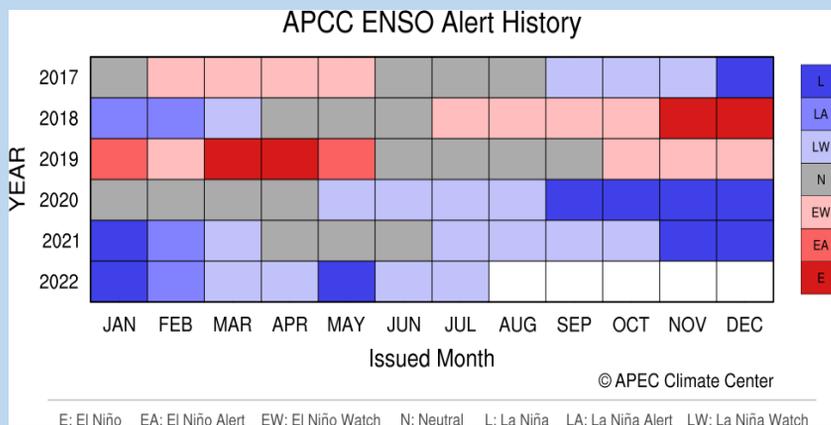
CURRENT STATUS



ENSO FORECAST



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

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

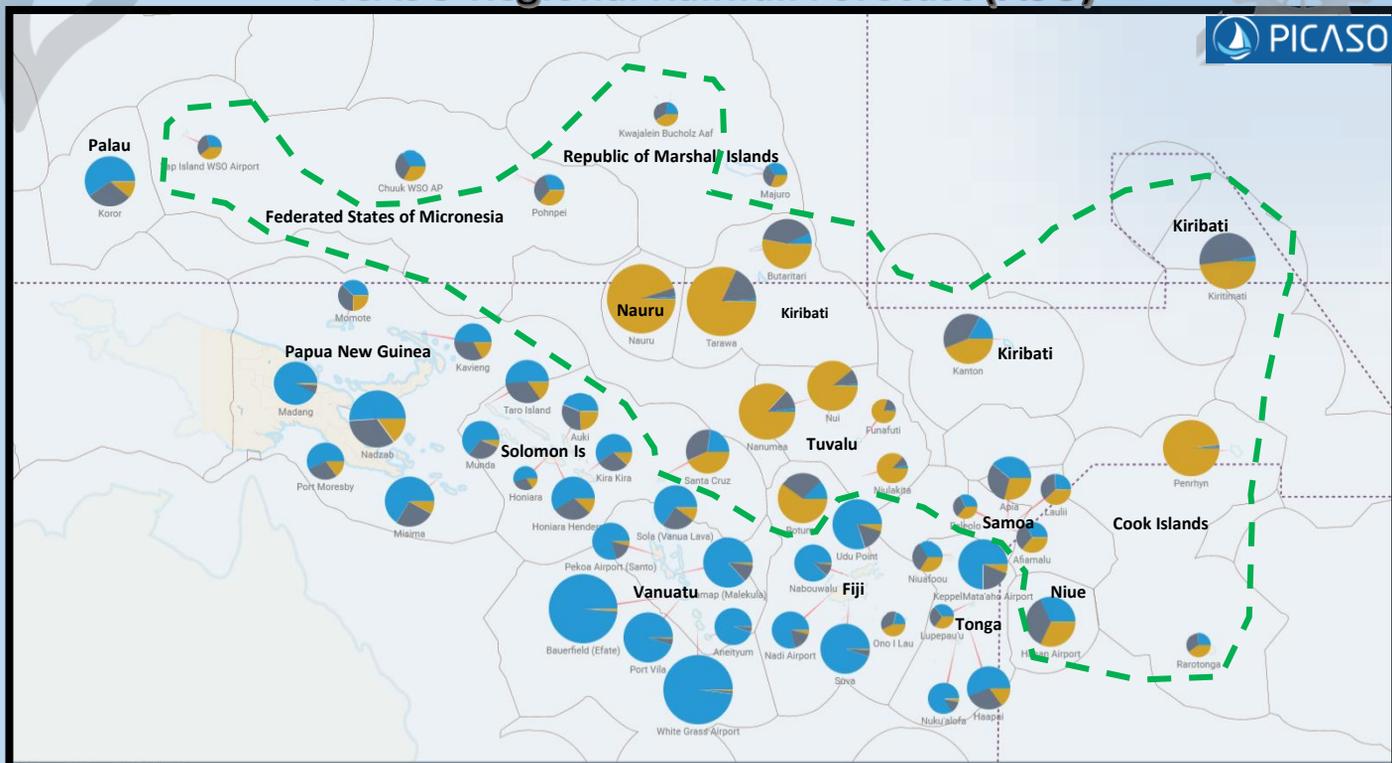


Figure 1: Regional outlook map of the Pacific. In general, all stations enclosed within the green-dash line anticipated to have Below Normal (BN) rainfall. Normal (N) to Above Normal (AN) rainfall is predicted for stations outside the green-dashed line. (Note: the larger the pie chart the higher the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

Station	Tercile Probability			Verification Score (LEPS)	Verification Score (HSS)	Hit/NearMiss/Miss	
	KEY	BN	N				AN
Cook Islands							
✓ Penrhyn		98%		34.3	Very High 53.1	11 3 2	
✓ Rarotonga	40%	34%	26%	-4.9	Very Low -3.1	5 4 7	
Fiji							
✓ Rotuma		60%	28%	12%	15.2	High 40	9 3 3
✓ Udu Point	5%	15%	80%		17.1	High 29.1	6 6 0
✓ Nabouwalu	10%	88%			7.2	Moderate -9.1	3 7 1
✓ Nadi Airport	4%	17%	79%		5.3	Moderate 15.6	7 4 5
✓ Suva	4%	95%			23.6	High 29.7	8 7 1
✓ Ono I Lau	43%	36%	21%		-26.6	Very Low -20	3 5 7
Kiribati							
✓ Kiritimati	48%		49%	3%	29.9	Very High 25	8 8 0
✓ Butaritari	53%		40%	7%	24.4	High 6.3	6 9 1
✓ Tarawa	82%		17%		52.5	Excellent 53.1	11 5 0
✓ Kanton	44%		39%	17%	19.8	High 37.5	7 4 1
Marshall Islands							
✓ Kwajalein Bucholz Aaf	41%	36%	23%		-0.2	Very Low -3.1	5 6 5
✓ Majuro	11%	33%	36%		-3.9	Very Low -31.2	2 6 8

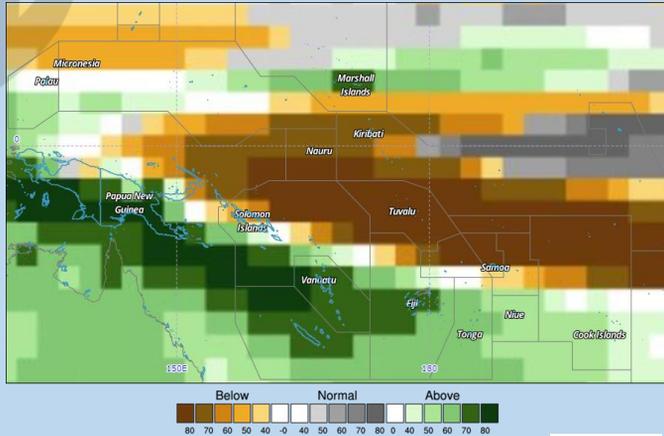
Republic of Korea-Pacific Islands Climate Prediction Services Project PICASO Regional Rainfall Forecast (ASO)



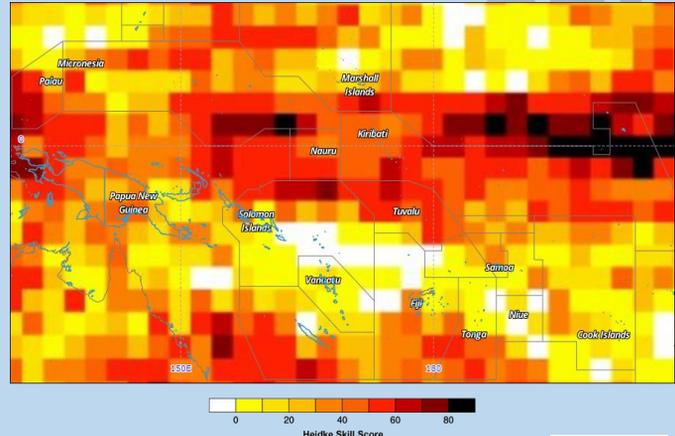
PICASO

Station	Tercile Probability				Verification Score (LEPS)	Verification Score (HSS)	Hit/NearMiss/Miss
	KEY	BN	N	AN			
Micronesia							
Chuk WSO AP	33%	32%	35%	1.2	Low	62.5	10 0 6
Pohnpei	36%	34%	30%	3.6	Low	29.7	8 3 5
Yap Island WSO Airport	39%	32%	29%	-13.7	Very Low	-21.9	3 0 13
Nauru							
Nauru	95%	4%		51.4	Excellent	50	4 2 0
Niue							
Hanan Airport	32%	36%	32%	22.6	High	25	8 8 0
Palau							
Koror	11%	29%	60%	24.3	High	25	8 7 1
Papua New Guinea							
Madang	7%	92%		13.7	Good	30	8 5 2
Port Moresby	15%	28%	57%	7.2	Moderate	15.6	7 5 4
Momote	25%	37%	38%	3.9	Low	-3.1	5 9 2
Nadzab	15%	34%	51%	26.4	Very High	48.4	10 4 2
Kavieng	17%	34%	49%	5.9	Moderate	15.6	7 5 4
Misima	8%	26%	66%	19.3	High	15.6	7 6 3
Samoa							
Afamalu	36%	32%	32%	1	Low	34.4	6 4 6
Laulili	38%	36%	26%	2.3	Low	6.3	6 7 3
Faleolo	36%	32%	32%	-0.8	Very Low	6.3	6 6 4
Apia	29%	32%	39%	12.3	Good	48.4	10 3 3
Solomon Islands							
Taro Island	15%	34%	51%	14.4	Good	15.6	7 8 1
Munda	6%	30%	64%	7.3	Moderate	6.3	6 7 3
Auki	24%	32%	44%	6.8	Moderate	9.3	5 5 6
Honiara	16%	29%	55%	-2.4	Very Low	25	6 5 5
Honiara Henderson	12%	29%	59%	13.8	Good	20.3	6 9 1
Kira Kira	12%	29%	59%	8.1	Moderate	-3.1	5 7 4
Santa Cruz	43%	34%	23%	14.6	Good	34.4	9 7 0
Tonga							
Niuafoou	34%	32%	34%	0	Low	48.4	7 3 6
KrepeleMata'aho Airport	6%	19%	75%	18.1	High	39.1	8 6 2
Lupepa'u	35%	30%	35%	-0.3	Very Low	62.5	6 5 5
Isapal	15%	29%	56%	11	Good	43.8	8 6 2
Nuku'alofa	3%	13%	84%	1.7	Low	-3.1	5 6 5
Tuvalu							
Nanumea	87%	11%		32.9	Very High	34.4	9 6 1
Nui	89%	10%		20.6	High	25	8 5 3
Funafuti	80%	18%		-25.8	Very Low	-12.5	4 9 3
Niukakita	87%	10%		2.6	Low	25	8 2 6
Vanuatu							
Sola (Vanua Lava)	10%	25%	65%	10.1	Good	13.5	5 6 2
Pekoa Airport (Santo)	4%	16%	80%	8.9	Moderate	6.3	6 7 3
Lamap (Malekula)	11%		87%	16	High	10	6 6 3
Bauerfield (Efate)			98%	42.8	Excellent	34.4	9 5 2
Port Vila	4%		95%	22.6	High	53.1	11 2 3
White Grass Airport			98%	38.4	Excellent	43.8	10 4 2
Anelitym	4%		95%	9.5	Moderate	25	8 5 3

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



Year: 2022, Season: ASO, Lead Month: 3, Method: GAUS
Model: APCC, BOM, CMCC, CWB, MSC, NCEP, PNI
Generated using CLIK® (2022-7-20)



Year: 2022, Season: ASO, Lead Month: 3, Method: GAUS
Model: APCC, BOM, CMCC, CWB, MSC, NCEP, PNI
Generated using CLIK® (2022-7-20)



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

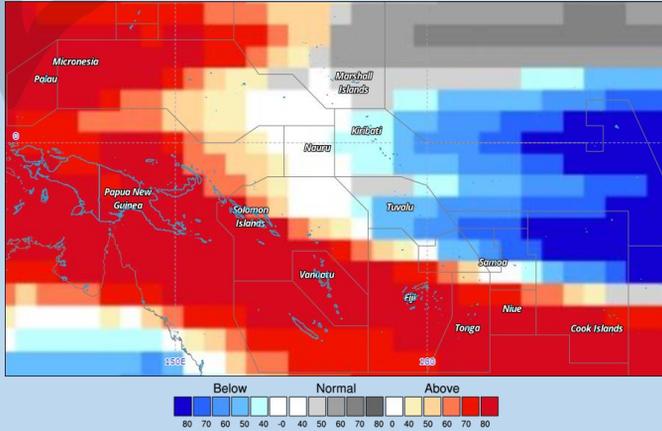
Figure 2: Rainfall Forecast Skill for the Pacific Islands – ASO 2022 period

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

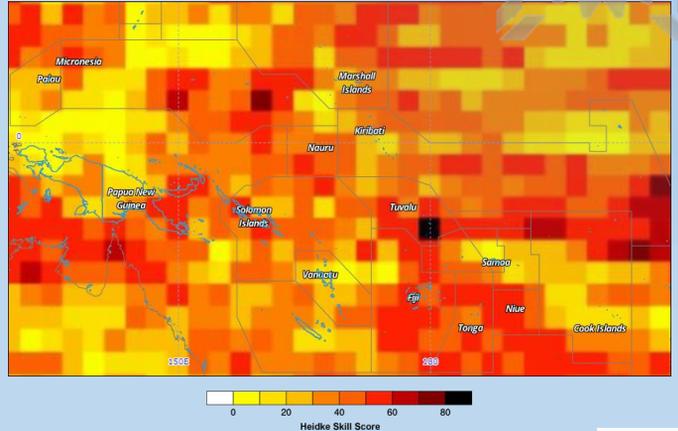
Table 1: Rainfall Outlook and Skill for the Pacific Islands.

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

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



CLIK®
APEC Climate Center



CLIK®
APEC Climate Center

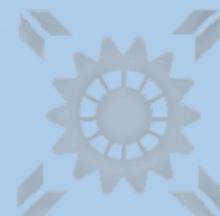
Figure 3: MME Temperature Forecast for the Pacific Islands – ASO 2022 period

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

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