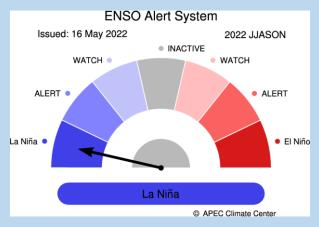
Summary: June to August 2022 (JJA)

Climate Outlook for June ~ November 2022

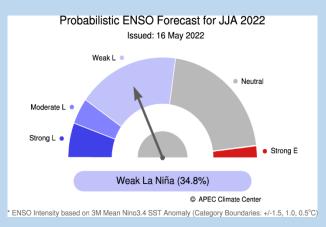
- The APCC ENSO Alert suggests "La Niña" for June November 2022. In April 2022, negative sea surface temperature anomalies were observed over the central and eastern tropical Pacific. The Niño3.4 index is expected to be below 0.5°C through the whole forecast period, which suggests La Niña conditions. Based on the running 3-month mean Niño3.4 index, the latest APCC ENSO outlook suggests an around 50% to 54% chance of La Niña conditions with weak intensity for the whole 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 May October 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

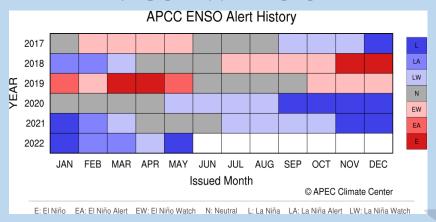
CURRENT STATUS



ENSO FORECAST



ENSO ALERT HISTORY



PICASO & CLIK® Summary

RAINFALL OUTLOOK

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

PICASO Regional Rainfall Forecast (JJA)

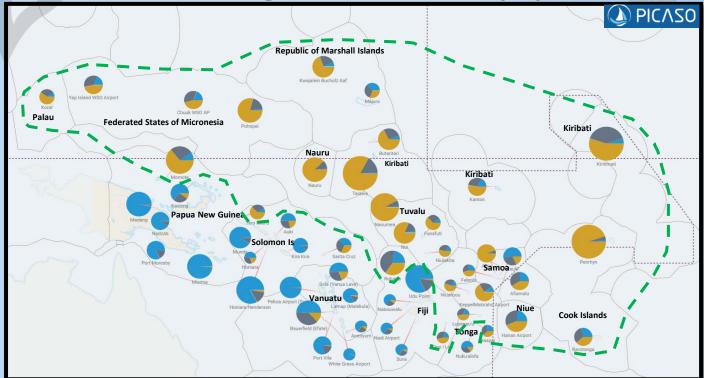


Figure 1: Regional outlook map of the Pacific. In general, all stations enclose within the green-dash line anticipated to have Below Normal (BN) rainfall. Normal (N) to Above Normal (AN) rainfall is predicted for stations outside the green-dashed line. (Note: the larger the pie chart the higher the forecast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

	OUTLOOK TABLE BY COUNTRY									
Station	Tercile Probability			Verification Score (LEPS)		Verification Score (HSS) Hit/NearN		arMiss/	Miss/Miss	
Cook Islands	KEY	BN N	AN							
Penrhyn		95%		49.6	Excellent	53.1	11	5	0	
Rarotonga	39%	33%	28%	6 .6	Moderate	6.3	6	2	8	
AK Fiji										
Rotuma	35%	42%	23%	19.8	High	53.1	11	3	2	
Udu Point	16%	82%		28.6	Very High	19.2	6	6	1	
Nabouwalu	99 25%	66%	á	-5.1	Very Low	-2.3	2	7	2	
Nadi Airport	7 24%	69%		-10.7	Very Low	-3.1	5	5	6	
Suva	7 23%	70%		-3.4	Very Low	-21.9	3	5	8	
Ono I Lau	47%	34%	19%	-1.2	Very Low	15	6	6	3	
Kiribati										
Kiritimati	55%	6	10% 5	37.3	Excellent	62.5	12	4	C	
Butaritari	6	7%	27% 6	12.5	Good	10	6	6	3	
Tarawa		83%	16%	51.3	Excellent	43.8	10	6	C	
Kanton	53%	319	6 16%	8.9	Moderate	7.7	5	5	3	
Marshall Islands										
Kwajalein Bucholz Aaf	7	70%	23% 7	14.9	Good	29.7	7	6	3	
✓ Majuro	31%	32%	37%	2.5	Low	85.9	10	2	4	

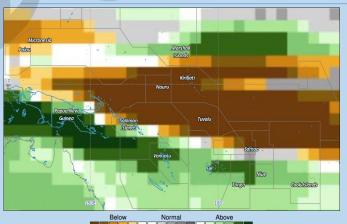
PICASO Regional Rainfall Forecast (JJA)

Station	Tercile Probability			Verification	on Score (LEPS)	Ver	ification Score (HSS)	Hit/Ne	earMiss/Miss
Micronesia	KEY BN	N	AN						
Chuuk WSO AP	46%	35%	1996	6.4	Moderate	6.3	6	4	6
Pohnpei	79%		19%	17.2	High	-12.5	4	11	1
Yap Island WSO Airport	46%	36%	18%	6	Moderate	29.7	7	5	4
Nauru									
Nauru	88	96	115	15.9	High	35.7	4	2	1
Niue									
✓ Hanan Airport	43%	3496	23%	10.5	Good	20.3	6	8	2
Palau									
☑ Koror	60%	3	0% 10	3.9	Low	-3.1	5	6	5
Papua New Guinea									
Madang		97%		21.5	High	25	7	6	1
Port Moresby	1796	82%		7.1	Moderate	-3.1	5	9	2
Momote	6496		26% 10	25.9	Very High	62.5	12	3	1
✓ Nadzab	85	9196		5.1	Moderate	6.3	6	6	4
Kavieng	10 27%	63%		8.9	Moderate	15.6	7	3	6
Misima		98%		20.6	High	6.3	6	9	-1
Samoa				_		_			
✓ Afiamalu	41%	34%	25%	6.4	Moderate	10.9	5	7	4
Laulii	18% 29%		196	7.8	Moderate	43.8	10	3	3
Faleolo	4596	29%	26%	-2.1	Very Low	15.6	5	4	7
☑ Apia	9	4%	5	5.1	Moderate	6.3	6	5	5
Solomon Islands						_			
☑ Taro Island	62%		29% 99	4.5	Low	0	5	9	1
Munda	85	9196		12.3	Good	15.6	7	6	3
Auki	2196 3096		996	2.9	Low	-3.1	5	8	3
☑ Honiara	21% 32%		1796	-1.6	Very Low	10.9	6	5	5
✓ Honiara Henderson	1496	83%		25.6	Very High	40	9	4	2
✓ Kira Kira	85	9196		4.6	Low	6.3	3	12	1
Santa Cruz	32% 3	196	37%	3.1	Low	6.3	6	7	3
✓ Niuafoou	56%	299	6 15%	-6.5	Very Low	6.3		-	-
✓ KeppelMata'aho Airport	56%		25% 99	8.5		-12.5	4	10	6
✓ Lupepau'u	46%	35%	19%	-1.2	Very Low	1.6	5	6	5
✓ Haapai	3996	35%	26%	-9.4	Very Low	-21.9	3	7	6
✓ Nukuʻalofa	15% 34%		1%	-9.1	Very Low		4	9	3
Tuvalu	3120							.40	
✓ Nanumea	q	296	7	26.4	Very High	34,4	9	5	2
☑ Nui	81%		1696	10.5	Good	15.6	7	6	3
✓ Funafuti	63%		27% 10	4.8	Low	-3.1	5	6	5
☑ Niulakita	53%	339		-3.9	Very Low	-7.8	3	9	4
Vanuatu									
Sola (Vanua Lava)	19% 30%	5	196	5.5	Moderate	53.8	9	2	2
Pekoa Airport (Santo)		98%		12.6	Good	34.4	9	1	6
Lamap (Malekula)	13%	84%		2.6	Low	o	5	7	3
Bauerfield (Efate)	13% 38% 49%			17.1	High	34,4	9	4	3
Port Vila	1996	79%		6.9	Moderate	6.3	6	8	2
White Grass Airport		9796		-30.8	Very Low	-21.9	3	3	10
Aneityum	10 23%	67%		-12.9	Very Low	-9.4	A	6	6
					- Control of the	_			

CLIK® Rainfall Forecast (JJA)

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APEC Climate Center



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Year: 2022, Season: JJA, Lead Month: 3, Method: GAUS Model: APCC, CMCC, CWB, MSC, NCEP, PNU, POAMA Generated using CLIK⊕ (2022-5-17)

CLIKE
Climate Information Toolkit for the Pacific

O APEC Climate Center

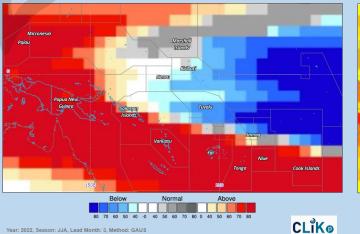
Generated using CLIK® (2022-5-17)

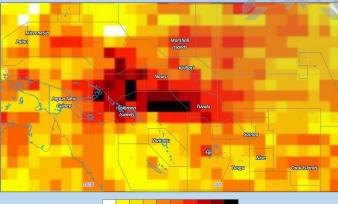
Country	Rainfall Outlook	Skill
Cook Islands	Below Normal - Penrhyn Above Normal - Rarotonga	Very Low - Moderate
FSM	Above Normal – Pohnpei Below Normal – Yap Little guidance (Climatology) – Chuuk	Low – High
Fiji	Above Normal except Rotuma (N)	Very Low - Moderate
Kiribati	Below Normal	Moderate - High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

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 (JJA)





Year: 2022, Season: JJA, Lead Month: 3, Method: GAUS Model: APCC, CMCC, CWB, MSC, NCEP, POAMA Generated using CLIK⊕ (2022-5-17)



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

Generated using CLIK® (2022-5-17)

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

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

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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