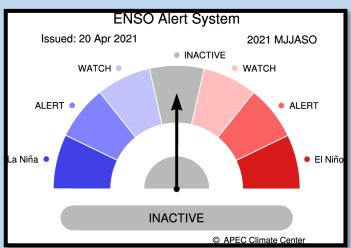
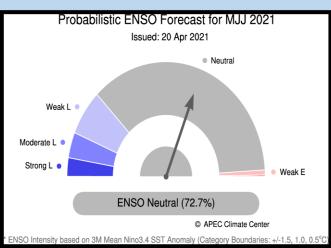
Summary: May to July 2021 (MJJ)

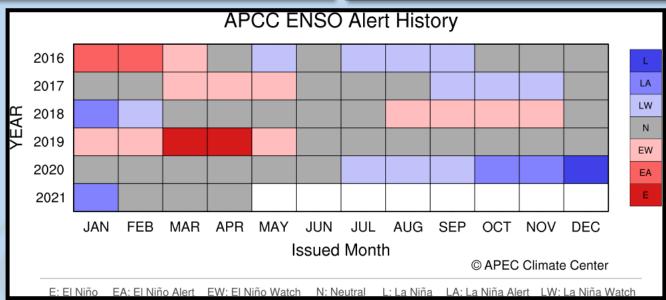
Climate Outlook for May ~ October 2021

- The APCC ENSO Alert suggests "INACTIVE". During March 2021, negative sea surface temperature anomalies were observed over the equatorial Pacific. The negative Niño3.4 index around -0.2°C to -0.5°C is expected during May October 2021. Based on the running 3-month mean Niño3.4 index, the latest APCC ENSO outlook suggests ENSO neutral conditions with a decreasing chance from 73% to 50% during the forecast period.
- Strongly enhanced probability for above normal temperatures is predicted for Micronesia, Melanesia (excluding equatorial region) and southern Polynesia for May October 2021.
- Enhanced probability for below normal precipitation is predicted for equatorial region of Pacific Islands for May –
 October 2021.
- Please see https://apcc21.org/ser/outlook.do?lang=en for more information

ENSO







PICASO & CLIK® Summary: May to July 2021 (MJJ)

RAINFALL OUTLOOK

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

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

TEMPERATURE OUTLOOK

Status	COUNTRY				
	CLIK®				
Above Normal	Cook Is (Rarotonga, southern group), FSM, Fiji, Marshall Is, Kiribati - (Tarawa, Kanton, Butaritari), Nauru, Niue, Palau, PNG, Samoa, Solomon Is., Tonga, Vanuatu.				
Normal	Kiribati - (Kiritimati),				
Below Normal	Cook Is (Penrhyn, northern group), Tokelau, Tuvalu.				

PICASO Regional Rainfall Forecast (MJJ)

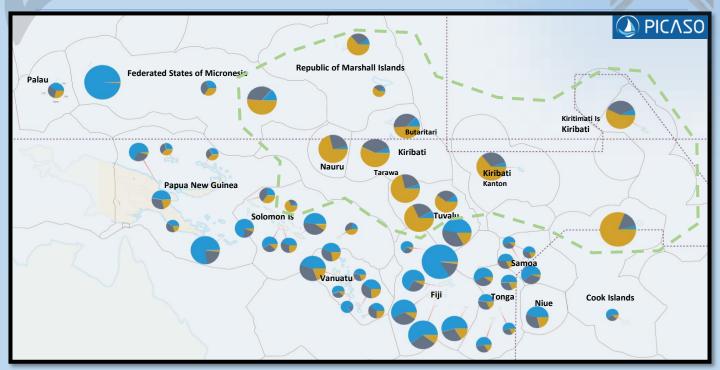


Figure 1: Regional outlook map of the Pacific. In general, all stations within the green-dash line is anticipated to have Below Normal (BN) rainfall. Normal (N) to Above Normal (AN) rainfall is predicted for stations above and below the green line. (Note: the larger the pie chart the higher the forecast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

					OUTLO	ОК Т.	ABLE BY CO	UNTRY				
	Station Tercile Prob			ile Prob	obability Verification Score (LEPS)			Verification Score (HSS)	ion Score (HSS) Hit/NearMiss/M		Miss	
***	Cook Islands											
>	Penrhyn		8	1%	1	696	43.4	Excellent	40	9	6	0
	Rarotonga	129	29%		59%		-12.2	Very Low	-20	3	7	5
*	💐 🤁 Fiji											
	Rotuma	7	29%		64%		-3.7	Very Low	0	5	5	5
	Udu Point	1496		84	196		36.7	Excellent	12.5	5	7	0
	Nabouwalu	7	26%		67%		12.1	Good	-9.1	3	6	2
	Nadi Airport	99	33%		58%		23.8	High	55	10	4	1
	Suva	10	30%		60%		30	Very High	30	8	7	0
	Ono I Lau	1696	3096		54%		16.3	High	67.9	11	0	3
	Kiribati											
	Kiritimati		57%		36%	7	26.7	Very High	60	11	3	1
	Butaritari		49%		38%	13%	19.6	High	25	7	7	0
	Tarawa		57%		37%	6	34.7	Very High	50	10	5	0
	Kanton		64%		3196		27.1	Very High	46.4	9	5	0
Marshall Islands												
	Kwajalein Bucholz Aaf		64%		28%	80	11.7	Good	20	7	6	2
	Majuro		60%		29%	115	-1.1	Very Low	-20	3	9	3

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

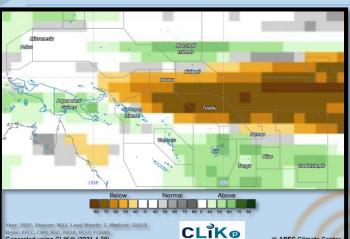
PICASO Regional Rainfall Forecast (MJJ)

Station Tercile Probability Verification Score (LEPS) Verification

Micropastia

	Station		Tercile Probability			Verification S	Score (LEPS)	Verific	ation Score (HSS)	Hit/N	NearMiss/Miss
	Micronesia	KEY	BN	N	AN						
	Chuuk WSO AP	349	96	3696	30%	2.6	Low	55	10	1	4
	Pohnpei		5196	3	35% 14	% 29.8	Very High	55	10	4	1
	Yap Island WSO Airport			98%		64.3	Excellent	100	15	0	0
	Nauru										
,	Nauru		7196		26%	27.3	Very High	14.3	3	4	0
			. F. 1. 1999		2000	And and					-
_	Hanan Airport	21%	33%		46%	10.8	Good	40	9	4	2
		21%	33%		40%	10.8	Good	40	9	4	2
	Palau										
	Koror	29%	32	296	39%	1.5	Low	-10	4	6	5
	Papua New Guinea										
	Madang	: 29	996	6	6%	5	Moderate	0	5	7	3
	Port Moresby	2096	40%	6	4096	-4.2	Very Low	0	5	7	3
	Momote	37	96	3496	29%	-1.6	Very Low	20	5	7	3
	Nadzab	2196	32%		47%	9.6	Moderate	30	8	4	3
	Kavieng	37	96	3196	32%	-1.2	Very Low	0	4	6	5
	Misima	21%		779	6	34.4	Very High	40	9	6	0
-7	Samoa										
	Afiamalu	1 3	3496	1	61%	8.4	Moderate	40	9	4	2
	Laulii	19%	34%		47%	-5.3	Very Low	10	6	5	4
	Faleolo	1896	34%		48%	0.5	Low	0	5	6	4
	Apia	115	3496		55%	-2.9	Very Low	10	6	7	2
200	Solomon Islands					I St					
	Taro Island	35	96	40%	25%	4.7	Low	20	7	7	1
	Munda	6 219		73		-	Moderate	30	8	4	3
	Auki	2 21	69%	7.3		8: -15.7		-20	3	7	5
		of the					Very Low				
	Honiara	129	30%		58%	2.8	Low	10	3	10	2
	Honiara Henderson	24%	33%	5	43%	1.6	Low	0	5	6	4
	Kira Kira	10	42%		48%	11.7	Good	20	7	7	1
	Santa Cruz	0.4	45%	349	6 21%	-1.9	Very Low	10	6	5	4
	Tonga										
	Niuafoou	10	32%		58%	9.3	Moderate	35	7	6	2
	KeppelMata'aho Airpor	18%	32%		50%	1.3	Low	20	5	4	6
	Lupepau'u	18%	35%		47%	3.1	Low	10	6	3	6
	Haapai	1796	30%		53%	-3.2	Very Low	-10	4	7	4
	Nuku'alofa	1696	3196		53%	4	Low	30	7	6	2
>H	Tuvalu										
	Nanumea		7196		24%	30.6	Very High	65	10	5	0
	Nui		68%		24%	8° 26	Very High	20	7	8	0
	Funafuti		60%		30% 1	10 14.9	Good	0	5	9	1
	Niulakita	1796	36%		4796	28.4	Very High	35	7	7	1
	Vanuatu										
	Sola (Vanua Lava)	22%	34%		4496	6.4	Moderate	18.2	5	4	2
	Pekoa Airport (Santo)	1996	36%		4596	15.1	High	46.4	9	4	1
	Lamap (Malekula)	2096	35%		45%	-2	Very Low	7.7	5	6	2
	Bauerfield (Efate)		33%		56%	-0.3		-20		9	3
		115	33%	Den.	30%		Very Low		3		
	Port Vila	13%		86%	1444	-8.4	Very Low	3.6	5	5	4
	White Grass Airport	2496	359		41%	7.3	Moderate	57.1	10	2	2
	Aneityum	25%	36		39%	2.7	Low	10	6	8	7

CLIK® Rainfall Forecast (MJJ)



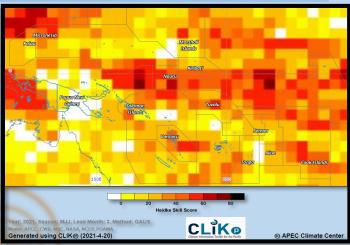


Figure 1: MME Rainfall Forecast for the Pacific Islands – MJJ 2021

Figure 2: Rainfall Forecast Skill for the Pacific Islands – MJJ 2021 period

Country	Rainfall Outlook	Skill		
Cook Islands	Below Normal - Penrhyn Above Normal - Rarotonga	Low Moderate		
FSM	Above Normal	Very Low – Moderate		
Fiji	Normal - Rotuma Above Normal elsewhere	Very Low – Moderate		
Kiribati	Below Normal – Kanton, Kiritimati Normal – Tarawa, Butaritari	Low – High		
Marshall Islands	Above Normal	Very Low		
Nauru	Below Normal	Moderate		
Niue	Above Normal	Low		
Palau	Above Normal	Low		
PNG	Above Normal (Port Moresby/Madang/Nadzab/Misima) Below Normal (Momote/Kavieng)	Very Low – Low		
Samoa	Normal	Low		
Solomon Islands	Above Normal (Honiara/Henderson/Kirakira) Normal - elsewhere	Very Low - Low		
Tonga	Above Normal	Very Low - Low		
Tokelau	Below Normal	Moderate		
Tuvalu	Below Normal	Low - High		
Vanuatu	Above Normal	Very Low - Low		

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

CLIK® Temperature Forecast (MJJ)

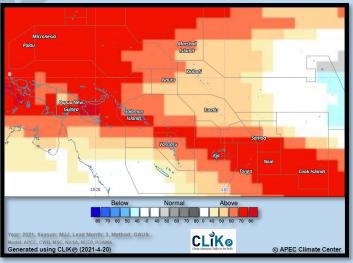


Figure 3: MME Temperature Forecast for the Pacific Islands — MJJ 2021 period

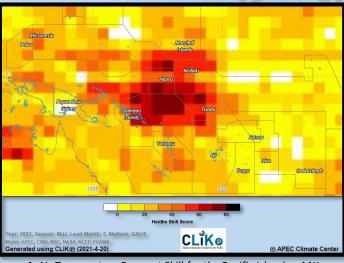


Figure 4: Air Temperature Forecast Skill for the Pacific Islands – MJJ 2021 period

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

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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