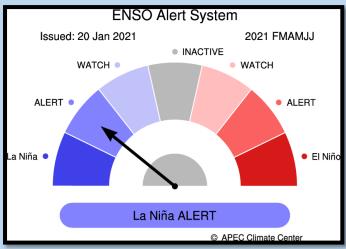
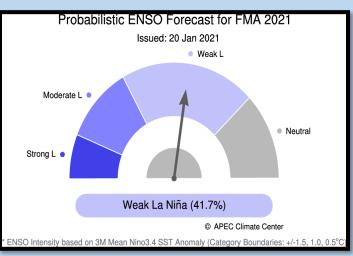
Summary: February to April 2021 (FMA)

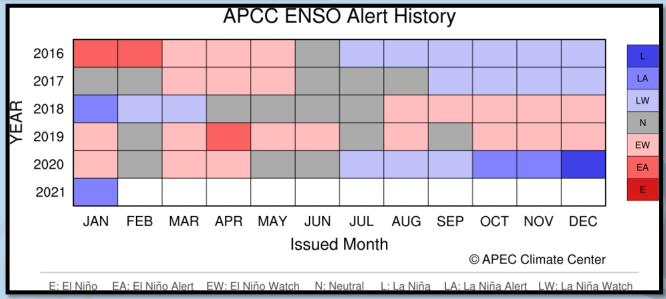
Climate Outlook for February ~ July 2021

- The APCC ENSO outlook suggests "La Nina ALERT".
- The prevailing ENSO phase is expected to be negative to neutral. Negative SST anomalies along the equatorial Pacific are predicted during February April 2021, and the intensity is likely to be weakened during May July 2021. Along with these spatial distributions, most of the dynamical coupled models predict negative Nino3.4 index which is expected to gradually increase from -1°C to -0.17°C through the whole forecast period.
- In summary, based on the running 3-month mean Nino3.4 index, the APCC ENSO outlook suggests La Nina conditions (76% chance) with weak intensity are dominant during February - April 2021. The conditions are expected to gradually decrease and a 48% chance of neutral conditions is expected during May - July 2021.
- Please see https://apcc21.org/ser/enso.do?lang=en for more information

ENSO







PICASO & CLIK® Summary: February to April 2021 (FMA)

RAINFALL OUTLOOK

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

PICASO Regional Rainfall Forecast (FMA)

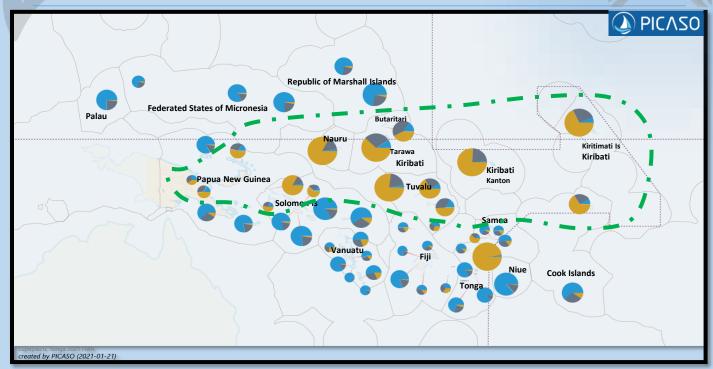


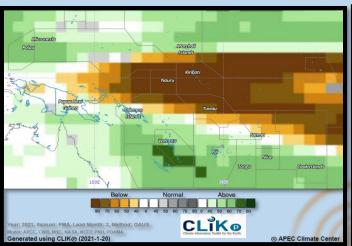
Figure 1: Regional outlook map of the Pacific. In general, all stations within the green-dash line is anticipated to have Below Normal (BN) rainfall. Normal (N) to Above Normal (AN) rainfall is predicted for stations above and below the green line. (Note: the larger the pie chart the higher the forecast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

	OUTLOOK TABLE BY COUNTRY										
~	Station	on Tercile Probability			Verification Score (LEPS) Verification Score (HSS)			Hit/NearMiss/Miss			
**	Cook Islands	KEY	BN	N	AN						
	Penrhyn		67%		25% 89	20	High	70	12	2	1
	Rarotonga	10	29%	61	%	16.5	High	0	5	7	3
Tiji											
<u>~</u>	Rotuma	16%	33%	ž.	51%	-12.7	Very Low	-20	3	5	7
	Udu Point	10	27%	639	%	-3.9	Very Low	7.7	3	6	4
<u>~</u>	Nabouwalu	20%		77%		-9.7	Very Low	31.2	6	1	5
<u>~</u>	Nadi Airport	18%		80%		11.9	Good	30	8	4	3
$\overline{\mathbf{z}}$	Suva	16%	40%		44%	-4.8	Very Low	-20	3	11	1
$\overline{\mathbf{z}}$	Ono I Lau	35	%	33%	33%	-0.6	Very Low	0	5	6	4
Kiribati											
$\overline{\mathbf{z}}$	Kiritimati		68%		26% 6	35.7	Excellent	40	9	5	1
~	Butaritari	4	12%	42%	16%	15.1	High	30	8	4	3
	Tarawa		62%		29% 99	44.8	Excellent	90	14	1	0
~	Kanton		76%	6	23%	48	Excellent	60	11	4	0
Marshall Islands											
~	Kwajalein Bucholz Aaf	. 229	%	74%		11.9	Good	20	7	6	3
	Majuro	. 24	%	72%		27.6	Very High	30	8	7	0

PICASO Regional Rainfall Forecast (JFM)



CLIK® Rainfall Forecast (FMA)



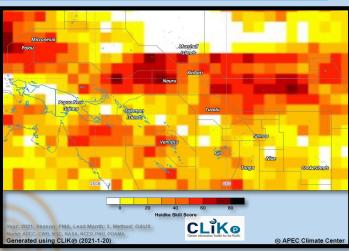
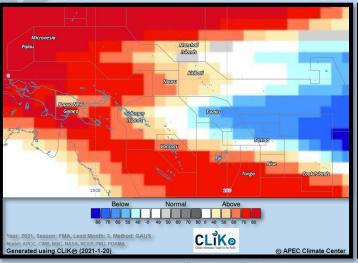


Figure 1: MME Rainfall Forecast for the Pacific Islands – FMA 2021 period

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

Country	Rainfall Outlook	Skill			
Cook Islands	Below Normal for northern Islands Normal – Above Normal elsewhere	Moderate Very Low			
FSM	Above Normal	Low – Moderate			
Fiji	Normal to Above Normal	Low - Moderate			
Kiribati	Below Normal	Moderate - High			
Marshall Islands	Normal - Above Normal (central & Northern) Below Normal (Southern)	Very Low - Low			
Nauru	Below Normal	High			
Niue	Above Normal	Low			
Palau	Above Normal	High			
PNG	Normal – Above Normal (Port Moresby/Misima/Nadzab) Normal to Below Normal (Madang/Momote/Kavieng)	Low - Moderate Low /Moderate/High			
Samoa	Normal - Above Normal	Low			
Solomon Islands	Normal – Above Normal	Very Low - Low			
Tonga	Above Normal	Low			
Tokelau	Below Normal	Low			
Tuvalu	Normal – Below Normal	Moderate – High			
Vanuatu	Above Normal	Low - Moderate			

CLIK® Temperature Forecast (FMA)



Micronesio
Popul New Marco
Response
Res

Figure 3: MME Temperature Forecast for the Pacific Islands – FMA 2021 period

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

Country	Air Temperature Outlook	Skill
Cook Islands	Below Normal (north) Above Normal (south)	Low - Moderate
FSM	Above Normal	Low - Moderate
Fiji	Above Normal Below Normal (Rotuma)	Low High
Kiribati	Above Normal (Tarawa/Butaritari) Below Normal (Kanton/Kiritimati)	High
Marshall Islands	Above Normal	Low - Moderate
Nauru	Above Normal	High
Niue	Above Normal	Moderate
Palau	Above Normal	High
PNG	Above Normal	Moderate - High
Samoa	Normal - Below Normal	Low
Solomon Islands	Above Normal	Moderate - High
Tonga	Normal - Above Normal	Low - Moderate
Tokelau	Below Normal	High
Tuvalu	Below Normal	Moderate - High
Vanuatu	Above Normal	Low 6

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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