

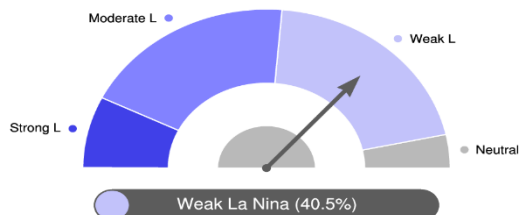
Republic of Korea-Pacific Islands Climate Prediction Services Project

Summary: October to December (OND) 2020

2020-09 Edition



Probabilistic ENSO Forecast for OND 2020



* ENSO Intensity based on 3M Mean Nino3.4 SST Anomaly (Category Boundries: +/-1.5, 1.0, 0.5°C)

Issued: 21 Sep, 2020

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The APCC ENSO outlook suggests La Niña conditions (~93% probability) with weak intensity for October to December 2020 and the probability for the conditions is likely to decrease to 58% for January to March 2021.

RAINFALL OUTLOOK

Status	COUNTRY (Area)
	PICASO
Above Normal	Cook Is - (Rarotonga), Fiji - (Udu Point, Nabouwalu, Suva, Nadi Airport, Rotuma, Ono-i-lau), Marshall Is. - (Majuro), FSM - (Yap, Pohnpei, Chuuk), Niue - (Hanan Airport), Palau - (Koror), PNG - (Madang, Port Moresby, Nadzab, Misima, Kavieng, *Momote), Samoa - (Afiamalua), Solomon Is , Tonga , Vanuatu .
Normal	Marshall Is. - (Kwajalein),
Below Normal	Cook Is - (Penrhyn), Kiribati - (Butaritari, Tarawa, Kanton, Kiritimati), Nauru , Samoa - (Apia, Lauli'i, Faleolo), Tuvalu .
Status	CLIK®
	CLIK®
Above Normal	Cook Is - (Rarotonga), FSM , Fiji , Marshall Is - (Majuro, Kwajalein), Niue , Palau , PNG - (Nadzab, Madang, Misima, Port Moresby, Momote), Samoa , Solomon Is , Tonga , Vanuatu - (Aneityum, Pekoa, Sola, Whitegrass, Bauerfield, Lamap, Port Vila, Sola)
Normal	
Below Normal	Cook Is - (Penrhyn), Kiribati , Nauru , PNG - (Kavieng), Tuvalu , Tokelau ,

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

TEMPERATURE OUTLOOK

Status	COUNTRY
	CLIK®
Above Normal	Cook Is , FSM , Fiji , Marshall Is. , Nauru , Niue , Palau , PNG , Samoa , Solomon Is. , Tonga , Tokelau , Tuvalu , Vanuatu .
Normal	
Below Normal	

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

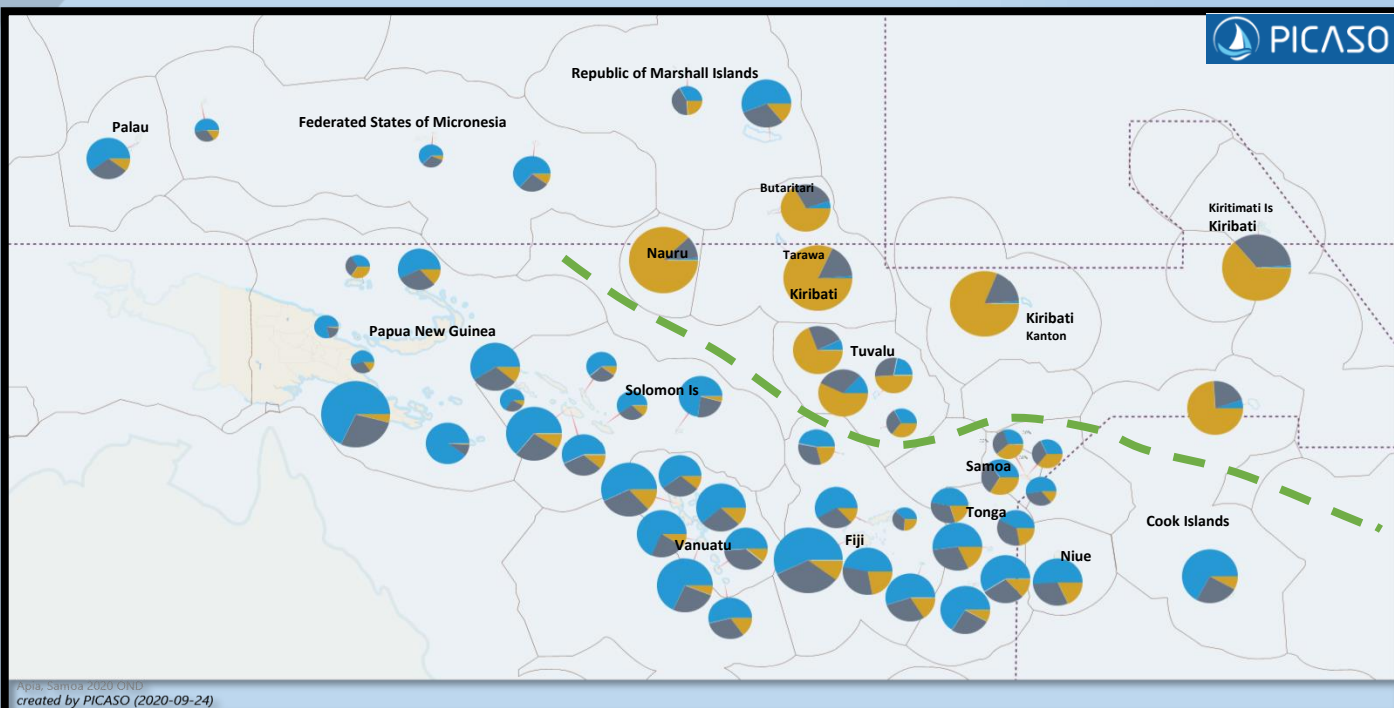


Figure 1: Regional outlook map of the Pacific. In general, all stations above the green line is anticipated to have Normal (N) to Below Normal (BN) rainfall. Stations below the green line are predicted to have Normal (N) to Above Normal (AN) rainfall. (Note: the larger the pie chart the higher the forecast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

OUTLOOK TABLE BY COUNTRY

Station	Tercile Probability				Verification Score (LEPS)		Verification Score (HSS)		Hit/NearMiss/Miss		
	KEY	BN	N	AN							
Cook Islands											
<input checked="" type="checkbox"/> Penrhyn	74%		21%	5%	27.1	Very High	51.8		8	4	2
<input checked="" type="checkbox"/> Rarotonga	8%	25%	67%		31.1	Very High	57.1		10	4	0
Fiji											
<input checked="" type="checkbox"/> Rotuma	21%	32%	47%		7.9	Moderate	35.7		8	2	4
<input checked="" type="checkbox"/> Udu Point	26%	36%	38%		-5.4	Very Low	-20		2	5	3
<input checked="" type="checkbox"/> Nabouwalu	13%	29%	58%		13.1	Good	31.8		6	3	2
<input checked="" type="checkbox"/> Nadi Airport	10%	33%	57%		38.1	Excellent	67.9		11	3	0
<input checked="" type="checkbox"/> Suva	22%	31%	47%		15.1	High	60.7		9	3	2
<input checked="" type="checkbox"/> Ono I Lau	16%	29%	55%		20.2	High	53.8		9	4	0
Kiribati											
<input checked="" type="checkbox"/> Kiritimati	64%		35%		42.1	Excellent	35.7		8	6	0
<input checked="" type="checkbox"/> Butaritari	67%		28%	5%	24.9	High	35.7		8	6	0
<input checked="" type="checkbox"/> Tarawa	82%		17%		57.2	Excellent	57.1		10	4	0
<input checked="" type="checkbox"/> Kanton	81%		18%		39.3	Excellent	37.5		7	4	1
Marshall Islands											
<input checked="" type="checkbox"/> Kwajalein Bacholiz Aaf	24%	43%	33%		1.3	Low	3.6		5	92	0
<input checked="" type="checkbox"/> Majuro	14%	30%	56%		18.6	High	25		7	5	2

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



Station	Terile Probability				Verification Score (LEPS)		Verification Score (HSS)		Hit/NearMiss/Miss		
	KEY	BN	N	AN							
Micronesia											
Chuuk WSO AP	6%	31%	63%		-14.7	Very Low	-17.9		3	5	6
Pohnpei	10%	26%	64%		8	Moderate	25		7	5	2
Yap Island WSO Airport	15%	33%	52%		-2.5	Very Low	8.9		4	4	6
Niue											
Hanan Airport	18%	31%	51%		22.3	High	62.5		10	2	2
Palau											
Koror	10%	30%	60%		10.3	Good	14.3		6	6	2
Papua New Guinea											
Madang	19%	79%			-3.4	Very Low	-12.5		3	6	3
Port Moresby	4%	28%	68%		42.9	Excellent	42.3		8	5	0
Momote	34%	32%	34%		-6	Very Low	-9.6		2	2	9
Nadzab	15%	31%	54%		-5	Very Low	19.2		6	3	4
Kavieng	13%	30%	57%		11.4	Good	7.7		5	6	2
Misima	9%	90%			14.9	Good	7.7		5	7	1
Samoa											
Afiamalu	14%	33%	53%		2.8	Low	14.3		6	7	1
Lauli	36%	32%	32%		1.3	Low	14.3		6	6	2
Faleolo	34%	31%	35%		7	Moderate	100		14	0	0
Apia	38%	32%	30%		3.8	Low	14.3		6	6	2
Solomon Islands											
Taro Island	11%	30%	59%		23.4	High	25		7	7	0
Munda	8%	27%	65%		-18.1	Very Low	-17.9		3	7	4
Auki	10%	29%	61%		3.6	Low	25		7	3	4
Honiara	9%	27%	64%		27.7	Very High	35.7		8	6	0
Honiara Henderson	11%	32%	57%		13.2	Good	25		7	6	1
Kira Kira	12%	29%	59%		2.2	Low	-7.1		4	7	3
Santa Cruz	4%	23%	73%		13	Good	3.6		5	8	1
Tonga											
Niuafoou	20%	33%	47%		6.9	Moderate	14.3		6	5	3
Keppel/Mata'aho Airport	22%	36%	42%		7.9	Moderate	7.7		5	8	0
Lupepau'u	18%	30%	52%		18.3	High	57.1		10	3	1
Haapai	13%	28%	59%		22.6	High	62.5		10	1	3
Nuku'alofa	8%	26%	66%		19.7	High	-17.9		3	11	0
Vanuatu											
Sola (Vama Lava)	11%	29%	60%		12.3	Good	4.5		4	5	2
Pekoa Airport (Santo)	13%	30%	57%		25.5	Very High	25		7	6	1
Lamap (Malekula)	12%	27%	61%		17.3	High	14.3		6	6	2
Bauerfield (Efate)	9%	23%	68%		16.4	High	25		7	6	1
Port Vila	6%	26%	68%		28.4	Very High	46.4		9	4	1
White Grass Airport	11%	38%	51%		14.4	Good	14.3		6	3	2
Anietyum	15%	31%	54%		14.1	Good	14.3		6	6	2

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

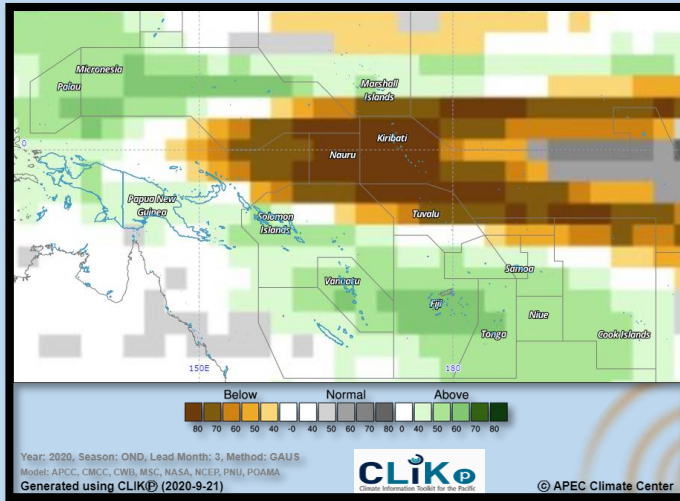


Figure 1: MME Rainfall Forecast for the Pacific Islands – OND 2020 period

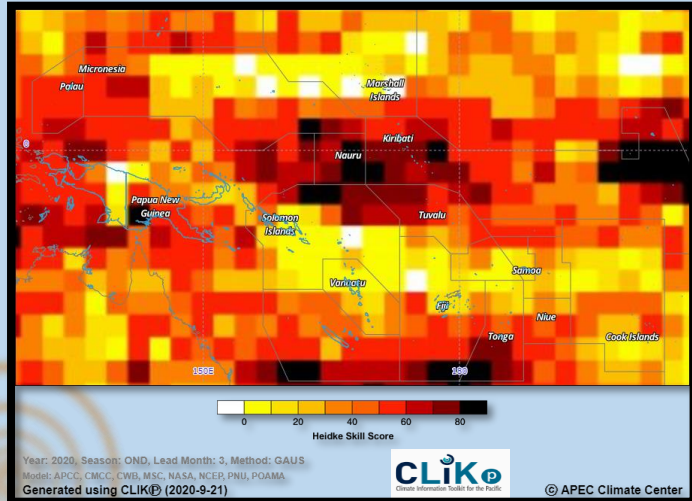


Figure 2: Rainfall Forecast Skill for the Pacific Islands – OND 2020 period

Country	Rainfall Outlook	Skill
Cook Islands	Below Normal for northern Islands Normal – Above Normal elsewhere	Low - Moderate
FSM	Normal – Above Normal	Low - Moderate
Fiji	Normal - Above Normal	Low - Moderate
Kiribati	Below Normal	Moderate - High
Marshall Islands	Normal - Above Normal (central) Below Normal (elsewhere)	Low - Moderate
Nauru	Below Normal	High
Niue	Above Normal	Moderate
Palau	Above Normal	High
PNG	Normal – Above Normal Below Normal (Kavieng)	Moderate - High
Samoa	Above Normal	Low
Solomon Islands	Normal – Above Normal	Low - Moderate
Tonga	Above Normal	Moderate - High
Tokelau	Below Normal	High
Tuvalu	Normal – Below Normal	Moderate - High
Vanuatu	Above Normal	Low – Moderate

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® Rainfall Forecast

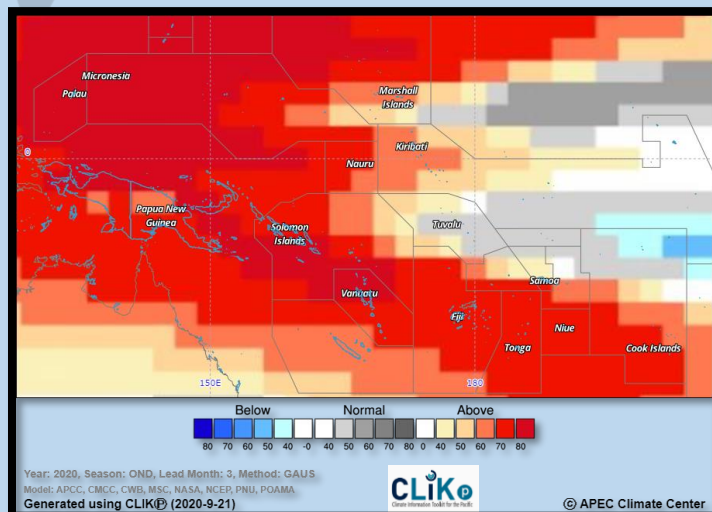


Figure 3: MME Temperature Forecast for the Pacific Islands – OND 2020 period

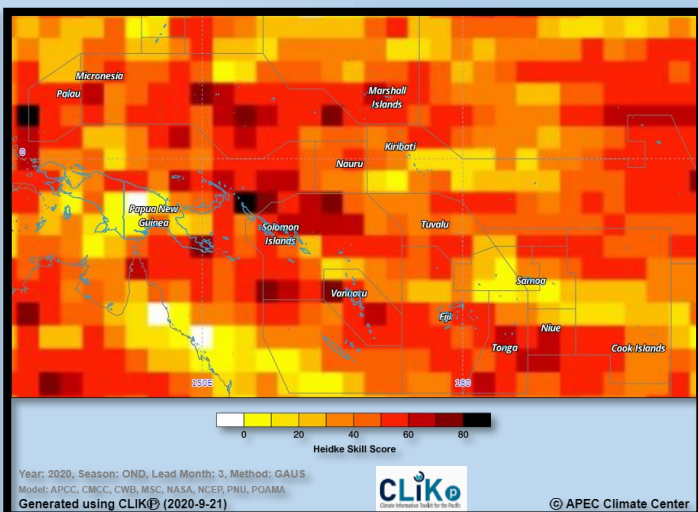


Figure 4: Air Temperature Forecast Skill for the Pacific Islands – OND 2020 period

Country	Air Temperature Outlook	Skill
Cook Islands	Normal - Above Normal	Low - Moderate
FSM	Above Normal	Moderate - High
Fiji	Above Normal	Moderate - High
Kiribati	Normal to Above Normal	Moderate - High
Marshall Islands	Above Normal	Low - Moderate
Nauru	Above Normal	High
Niue	Above Normal	High
Palau	Above Normal	High
PNG	Above Normal	Moderate - High
Samoa	Above Normal	Moderate
Solomon Islands	Above Normal	Moderate - High
Tonga	Above Normal	Moderate - High
Tokelau	Above Normal	High
Tuvalu	Above Normal	Moderate - High
Vanuatu	Above Normal	Moderate - High

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

CONTACT INFORMATION:

For more information please contact Mr. Tile Tofaeono, Climate Prediction Services Coordinator, SPREP tilet@sprep.org



PO Box 240, Apia, Samoa
E: sprep@sprep.org
T: +685 21929
F: +685 20231
W: www.sprep.org

