

Country: Palau

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2020	Mar-2020	Apr-2020				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Rainfall (mm)					
Koror (1951-2020)	267.2	105.4	275.6	173.6	247.7	195.6	49/69

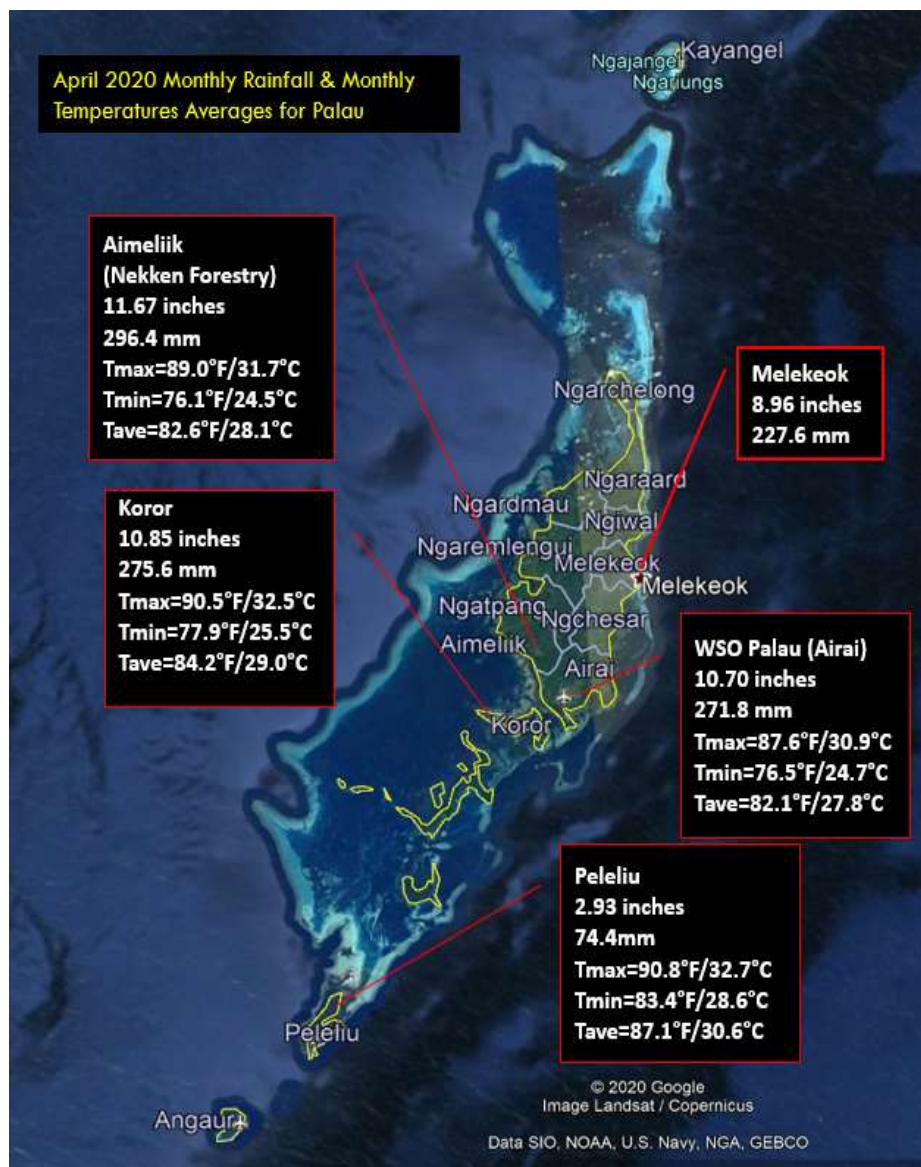


TABLE 2: Three-month Rainfall for February to April 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November - December 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Koror (1951-2020)	648.2	Normal	539.1	771.9	674.1	31/69	48	33	19	26	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2020

Predictor and Period used: NINO3.4 for March to April 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Koror (1951-2020)	45	1205.9	55		0	56

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Koror (1951-2020)	38	1118.6	29	1330.8	33	-1	32

Monthly and Seasonal Climate Outlooks using ACCESS-S for June to August 2020

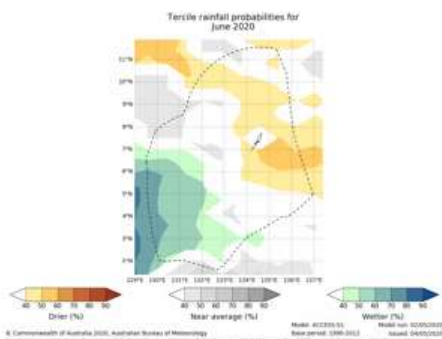


Figure 1 Monthly Rainfall for June 2020.

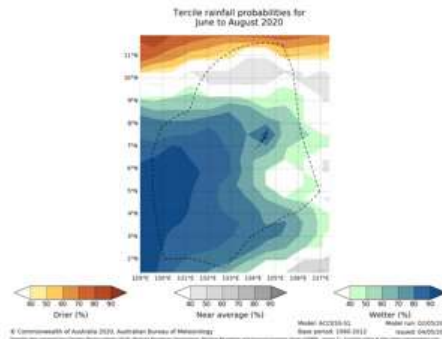


Figure 4 Seasonal Rainfall for June to August 2020.

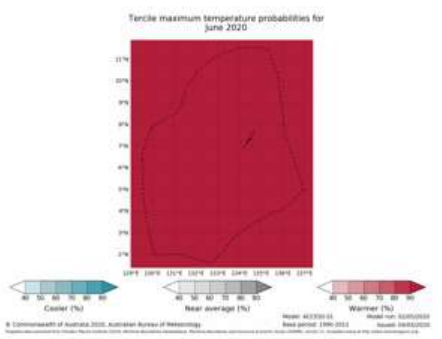


Figure 2 Monthly Maximum Temperature for June 2020.

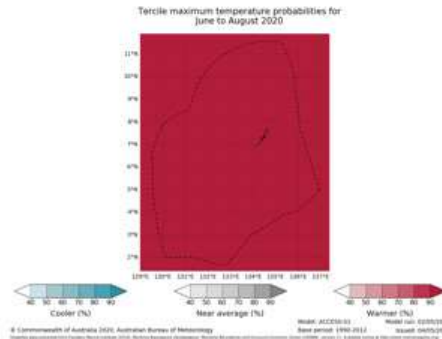


Figure 5 Seasonal Maximum Temperature for June to August 2020.

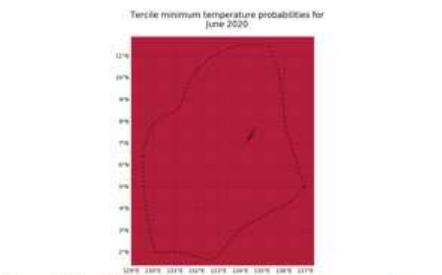


Figure 3 Monthly Maximum Minimum Temperature for June 2020.

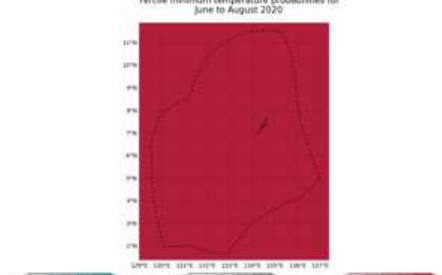


Figure 6 Seasonal Maximum Minimum Temperature June to August 2020.

Summary Statements

Rainfall for April 2020: For the first 23 days of April, generally dry trade-winds were observed over the Republic of Palau. At that time, Koror recorded 123.2 mm of rainfall. On the last week of April, mainly trade-wind convergence north of the equatorial troughs and embedded circulations, all located south of the main islands of Palau, increased rainfall totals across Palau. Koror recorded above normal rainfall for April 2020.

Accumulated rainfall for February to April 2020, including outlook verification: Koror recorded normal rainfall for the period February to April. The SCOPIC outlook issued in January was near-consistent as it indicated below normal as the most likely outcome.

Outlooks for June to August 2020:

1. **SCOPIC:** The SCOPIC outlook for June to August offers little guidance as the chances above-normal, normal and below-normal are similar.

2. **ACCESS-S:**

Monthly rainfall: June outlook offers little guidance as the chances of wetter, near average and drier are similar.

Monthly maximum and minimum temperatures: The outlook favours a warmer than average June.

Seasonal rainfall: The June to August outlook favours above-normal rainfall.

Seasonal maximum and minimum temperature: The June to August outlook favours a warmer than average season.

NB: The X LEPS % score has been categorised as follows:

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date:	Stakeholder	Total Number of Participants	Number of male	Number of female
Weather & Climate Briefing	April 9 2020				
President of the Republic of Palau			1	1	
Senators of Palau			13	11	2
Delegates of Palau			16	14	2
Ministers			8	6	2
Palau Public Utilities representatives			2	2	
Media representatives			4	3	1
Total			44	37	7

April 2020 Timeline: From the last week of March through first week of April, manmade fires were reported in several States (Melekeok, Ngaraard, Ngardmau, and Ngatpang). Palau Public Utilities Corporation (PPUC) announces **voluntary** conservation of water for Palau. PPUC issued Water Shortage Alerts for three States of the Republic (Ngerchelongs, Aimeliik and Airai). By April 7, PPUC announces **mandatory** conservation (limited water usage for essential use only; no car or pavement washing). On April 9, 2020, Staff Meteorologist, Kikuko Mochimaru, provided a Weather and Climate Briefing at the Leadership meeting with the President of the Republic of Palau, Senators, Delegates, and representatives from PPUC, the media and other agencies. By April 13, water levels declined substantially for Ngerikiil Water Source and slightly for Ngerimel Dam. On this same day, daily water rationing was implemented for the hours from 11pm to 5am. On April 16, PPUC lifted the

Nation-wide water rationing except for a few hamlets in Aimeliik and Ngerchelongs. **Mandatory** conservation continued through the month of April. No fires were reported during the voluntary and mandatory water conservation period until April 29, where slash and burn agricultural practices went out of control affecting Melekeok and Ngaraard States, again.

Figure 1 Estimated 5 mile charred ridge from Aimeliik to Ngatpang States March 29 through April 1, 2020. Photo by Ebiil Society, Ann Singeo



Figure 2 Palau Public Utilities Corporation (PPUC) graph of declining water levels of Ngerimel Dam and Ngerikiil water source for April 1-8, 2020

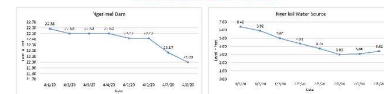


Palau Public Utilities Corporation

City Hall Building, Ngerimel Koro
P.O. Box 100
Republic of Palau
Tel: (670) 488-3333
Fax: (670) 488-3333

Public Relations Office
April 8, 2020

DAILY WATER LEVEL UPDATE



The Palau Public Utilities Corporation (PPUC) would like to inform the public that due to the dry season and minimal rainfall, water levels at our primary water sources (Ngerikiil and Ngerimel) continue to drop (refer to provided tables for more information). As of 6:00am this morning (Wednesday April 8, 2020), Ngerimel is at 22 feet while Ngerikiil is at 1.63 feet. During this critical time, the public is urged to CONSERVE water, minimize usage, and limit to ESSENTIAL USE ONLY. Utilize your water meter to check for leaks and report, if any. Make sure to shut off all faucets tightly after each use. Car washing, water blasting and other non-essential use of water is PROHIBITED until further notice. If you see anyone carelessly using water, please contact the PPUC Customer Service at 488-3870/3872/3877. Thank you.



Figure 3 Slash and burn agricultural practices gone bad for Melekeok and Ngaraard States on April 29, 2020. Photo by Ebiil Society, Ann Singeo.