



CLIMATE SUMMARY

Tuvalu Meteorological Services, Minister of Public Work, Infrastructures, Development and Water
May 2024



WEATHER PATTERNS

The South Pacific Convergence Zone (SPCZ) is one of the common aspects that always change Tuvalu's weather pattern. During May, the SPCZ was located south of Tuvalu near Niulakita. Passing troughs with associated deep convective clouds also brought more rainfall to Nanumea and Nui during May. Thus, SPCZ near Niulakita and troughs that passed over Tuvalu greatly impact our weather. Therefore, all stations were experiencing heavy rainfall, but Niulakita recorded the highest daily rainfall of 142.2 mm and also the highest monthly rainfall of 367.3 mm. The SPCZ is expected to drift north of its current position and will affect Tuvalu groups.

TABLE 1: MONTHLY RAINFALL FROM MARCH TO MAY 2024

Station (include data period)	Mar-2024	Apr-2024	May-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2024)	373.8	265.2	351.2	130.8	253.5	199.6	75/84
Nui (1946-2024)	391.6	224.4	356.9	151.1	216.5	185.7	71/79
Funafuti (1933-2024)	249.8	226.1	223.2	197.4	264.7	230.5	48/92
Niulakita (1953-2024)	252.4	234.6	367.3	169.9	247.9	207.0	62/72



TABLE 2: TOTAL RAINFALL FROM MARCH TO MAY, 2024

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Nanumea (1941-2024)	990.2	Above normal	542.1	881.9	772.6	65/82
Nui (1946-2024)	972.8	Above normal	561.0	846.3	705.0	63/79
Funafuti (1933-2024)	699.1	Normal	686.4	919.9	794.2	34/92
Niulakita (1953-2024)	854.3	Normal	674.1	912.0	820.4	41/72

MONTHLY RAINFALL / LAST THREE MONTHS MARCH TO MAY 2024 STATEMENT

The rainfall for May was above normal over Nanumea, Nui and Niulakita and normal rainfall at Funafuti. Nui recorded their ninth wettest May in 79 years of records, respectively.

For the past three months, rainfall was above normal over Nanumea and Nui, while normal rainfall was observed at Funafuti and Niulakita.

Contact Tuvalu Meteorological Service for further information:

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