



CLIMATE SUMMARY

TUVALU METEOROLOGICAL SERVICES
 MINISTRY OF PUBLIC WORKS, INFRASTRUCTURE, DISASTER AND WATER.
 March 2024



WEATHER PATTERNS

El Nino continued to impact the Pacific region. Both MJO and South Pacific Convergence zone started to weaken due to the tropical low that located near Tonga and moved off to the southeast and it take much of SPCZ energy. Nevertheless, a branch of a Convergence Zone with a trough lingered over Tuvalu and Tokelau on the 13th of March. Thus, this branch associated with clouds and rain affected the whole group. Therefore, all stations were experiencing heavy rainfall, but Nanumea recorded the highest daily rainfall of 85.3 mm. While, Nui recorded the highest total rainfall of the month of about 391.5 mm.

TABLE 1: MONTHLY RAINFALL FROM JANUARY TO MARCH 2024

Station (include data period)	Jan-2024	Feb-2024	Mar-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2024)	376.1	532.6	373.8	165.7	315.9	246.8	62/82
Nui (1946-2024)	210.2	594.4	391.5	219.5	336.4	257.4	64/79
Funafuti (1933-2024)	440.3	337.0	249.8	261.9	362.9	313.2	29/92
Niulakita (1953-2024)	286.3	372.5	252.4	248.7	396.3	287.4	26/72



TABLE 2: TOTAL RAINFALL FROM JANUARY TO MARCH, 2024

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Nanumea (1941-2024)	1282.5	Above normal	684.4	1112.8	939.3	65/82
Nui (1946-2024)	1196.1	Above normal	768.0	1087.1	963.7	61/76
Funafuti (1933-2024)	1027.1	Normal	930.5	1173.4	1068.4	40/92
Niulakita (1953-2024)	911.2	Below normal	947.9	1164.9	1067.3	23/71

MONTHLY RAINFALL JANUARY/ LAST THREE MONTHS NOVEMBER TO JANUARY 2024 STATEMENT

The rainfall for March was above normal over Nanumea and Nui. While below normal observed at Funafuti and normal rainfall at Niulakita.

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

Contact Tuvalu Meteorological Service for further information:

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