



# CLIMATE SUMMARY

TUVALU METEOROLOGICAL SERVICES  
 MINISTRY OF PUBLIC WORKS, INFRASTRUCTURE, ENVIRONMENT, LABOUR, METEOROLOGICAL AND DISASTER .

January 2024



## WEATHER PATTERNS

El Nino remains a major climate driver for the Pacific region at the beginning of 2024. The South Pacific Convergence Zone (SPCZ) has had a significant impact on the region. In the first two weeks of January, a trough of low pressure moved slowly over Tuvalu, causing active cloud bands to form over the northern group. This was the result of rainfall that was observed at the Nanumea Station. For the remaining weeks, the South Pacific Convergence Zone (SPCZ) extended from the Solomon Islands through Tuvalu to Samoa. Thus an active convergence zone associated with clouds and rain affected the whole group. Therefore, all stations were experiencing heavy rainfall, but Funafuti recorded the highest daily rainfall of 156.0mm and also the highest total rainfall of the month. The SPCZ is expected to stretch from the Solomon Islands through Tuvalu and Samoa for the upcoming month.

TABLE 1: MONTHLY RAINFALL FROM NOVEMBER TO JANUARY 2024

Station (include data period)	Nov-2023	Dec-2023	Jan-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2024)	210.1	252.4	376.1	251.6	388.0	328.8	53/83
Nui (1946-2024)	257.5	246.1	210.2	242.0	443.1	321.3	17/79
Funafuti (1933-2024)	279.2	339.4	440.3	288.6	445.8	383.2	55/92
Niulakita (1953-2024)	449.2	177.7	286.3	299.0	442.0	373.6	24/71



TABLE 2: TOTAL RAINFALL FROM NOVEMBER TO JANUARY, 2024

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Total	Normal				
Rainfall (mm)						
Nanumea (1941-2024)	838.6	Normal	581.9	996.3	868.0	37/82
Nui (1946-2024)	713.8	Below normal	813.7	1092.0	941.7	20/76
Funafuti (1933-2024)	1058.9	Normal	907.4	1134.5	1011.3	49/91
Niulakita (1953-2024)	913.2	Normal	829.5	1135.6	1024.4	27/67

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

The rainfall for January was normal over Nanumea and Funafuti, while below normal at Nui and Niulakita.

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

Contact Tuvalu Meteorological Service for further information:

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