



CLIMATE SUMMARY

TUVALU METEOROLOGICAL SERVICES
MINISTRY OF PUBLIC WORKS, INFRASTRUCTURE, ENVIRONMENT, LABOUR, METEOROLOGICAL AND DISASTER .
SEPTEMBER 2023



WEATHER PATTERNS

During the first week of the month, moderate south-easterly trade winds prevailed over the group, with less rainfall observed at all stations. The South Pacific Convergence Zone was extended from Solomon across Samoa indicating that deep convection was favorable to develop over the group in the remaining weeks. Active rain bands associated with the convergence zone

were observed throughout, most likely for the southern group. As a result, Niulakita recorded the highest rainfall of the month. The SPCZ and trade winds dominated the weather pattern for the month of September. While the El Nino phase clearly shows its active condition indicating that atmosphere and ocean variability were in one favor, the SPCZ is expected to remain north

TABLE 1: MONTHLY RAINFALL FROM JULY TO SEPTEMBER, 2023

Station (include data period)	Jul-2023	Aug-2023	Sep-2023				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2023)	123.5	136.0	121.4	88.8	168.2	119.7	39/82
Nui (1946-2023)	156.1	117.8	148.7	127.3	198.0	172.7	33/78
Funafuti (1933-2023)	289.0	106.0	258.0	164.1	247.1	203.7	64/91
Niulakita (1953-2023)	99.4	375.3	339.8	177.1	230.1	192.0	65/71

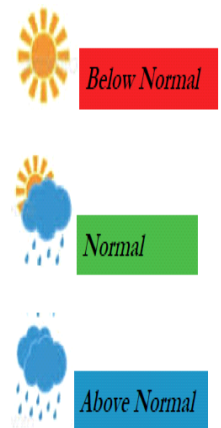


TABLE 2: TOTAL RAINFALL FROM JULY TO SEPTEMBER, 2023

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Total	Normal				
Rainfall (mm)						
Nanumea (1941-2023)	380.9	Below normal	398.1	603.1	475.5	24/82
Nui (1946-2023)	422.6	Below normal	519.8	688.7	610.0	20/78
Funafuti (1933-2023)	653.0	Normal	608.0	785.9	710.3	39/91
Niulakita (1953-2023)	814.5	Above normal	514.7	722.8	619.8	56/71

MONTHLY RAINFALL SEPTEMBER/ LAST THREE MONTH- JULY TO SEPTEMBER, 2023 STATEMENT

The rainfall for September observed normal rainfall at Nanumea and Nui, while Funafuti and Niulakita observed above normal rainfall..

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

Contact Tuvalu Meteorological Service for further information:

Chief Meteorological Officer, Ministry of Public Works, Infrastructure, Environment, Labour, Meteorology and Disaster, Vaiaku, Funafuti, Tuvalu. Email: tauala.k@gmail.com, tuvalumet@gmail.com, tuvalumet@gov.tv

website: tuvmet.tv, Facebook:<Tuvalu Meteorological Service>