



CLIMATE SUMMARY

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

June 2023



WEATHER PATTERNS

The transition period from wet to dry season affected the group in terms of rainfall. Central atolls observed more rainfall compared to Northern and Southern atolls due to the deep convection of rain bands that developed over the Central group and spread toward the Southern group. The South Pacific Convergence Zone (SPCZ) weakened and stretched from Solomon to Samoa in the first two weeks of May. It is expected to stretch from the northern Coral Sea to northern Tonga to Southern Cooks in the upcoming month.

TABLE 1: MONTHLY RAINFALL FROM MARCH TO MAY 2023

| Station (include data period) | Mar-2023 | Apr-2023 | May-2023 | | | | Rank |
|-------------------------------|------------|------------|---------------|---------|---------|--------|-------|
| | | | Total (mm) | 33%tile | 67%tile | Median | |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| Nanumea (1941-2023) | 108.4 | 139.4 | 95.4 | 131.1 | 256.7 | 200.9 | 17/83 |
| Nui (1946-2023) | 247.1 | 285.4 | 213.5 | 150.6 | 218.0 | 185.4 | 53/78 |
| Funafuti (1933-2023) | 299.4 | 270.5 | 166.7 | 198.3 | 266.4 | 230.5 | 26/91 |
| Niulakita (1953-2023) | 137.1 | 128.3 | 121.9 | 170.2 | 248.9 | 207.5 | 13/71 |

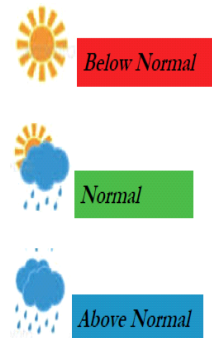


TABLE 2: TOTAL RAINFALL FROM MARCH TO MAY 2023

| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
|-----------------------|-------------------|--------------|---------|---------|--------|-------|
| | Total | Status | | | | |
| Nanumea (1941-2023) | 343.2 | Below normal | 554.4 | 883.3 | 775.0 | 7/81 |
| Nui (1946-2023) | 746.0 | Normal | 555.9 | 854.3 | 698.5 | 44/78 |
| Funafuti (1933-2023) | 736.6 | Normal | 681.3 | 924.2 | 796.5 | 38/91 |
| Niulakita (1953-2023) | 387.3 | Below normal | 681.0 | 912.1 | 822.9 | 3/71 |

MONTHLY RAINFALL- MAY/ LAST THREE MONTH- MARCH TO MAY 2023 STATE-

Nanumea, Niulakita and Funafuti recorded below normal rainfall for May, while Nui recorded normal rainfall. (Refer to the table 1)

During the last three months, Niulakita and Nanumea recorded below normal rainfall, while Nui and Funafuti recorded normal rainfall. Niulakita recorded its third driest March to May in 71 years of record, while Nanumea recorded its seventh driest in 81 years of record. (Table 2 for more information)

Contact Tuvalu Meteorological Service for further information:

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