

Tuvalu Meteorological Service Early Action Rainfall Watch:



Purpose: The Early Action Rainfall Watch provides a summary of recent rainfall patterns, particularly the status of drought and the rainfall outlook for the coming months. The status and outlook will be revised on a monthly basis. Contact the Tuvalu Meteorological Service (TMS) for further information.

SUMMARY

"La Nina Watch continuing."

- Sea Surface Temperatures in the Central Pacific have been cooling.
- Climate models suggests that Sea Surface Temperature in the Central Tropical Pacific are likely to continue to cool for at least the next two months.
- The Bureau's ENSO Outlook is at La Nina Watch due to early signs that an event may form in the Pacific Ocean later in 2024.





RAINFALL STATUS:

- For the month of June 2024, it was **No Extreme** over Nanumea and Niutao. **Very Wet** at Funafuti and **Seriously Wet** at Nanumaga, Nui, Vaitupu, Nukufetau and Nukulaelae.
- Over April to June 2024 (3Months), it was Very Wet over Nanumea, Nanumaga, Nui and Nukulaelae. No Extreme at Niutao, Vaitupu, Nukufetau, and Funafuti. Seriously Wet over Niulakita.
- Over the past six months, January to June 2024, No Extreme most existed over Tuvalu.
- ❖ May 2023 to June 2024 (12months), it was **No Extreme** most stretching over Tuvalu.

Rainfall OUTLOOK:

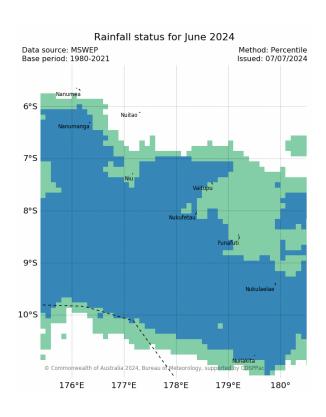
- Medium Chance of Very Dry conditions predicted for August 2024 at Nanumea, Nanumaga, and Niutao, but there is a Medium Chance of Very Wet expected for Nukulaelae, while Nui, Vaitupu, Nukufetau, Funafuti and Niulakita are predicted to be Low Chance of Extreme conditions.
- August to October 2024, expected to be Medium Chance of Very Dry over Nanumea, Nanumaga and Niutao, Nui and Vaitupu and Low Chance of Extreme stretching over, Nukufetau, Funafuti, Nukulaelae and Niulakita.

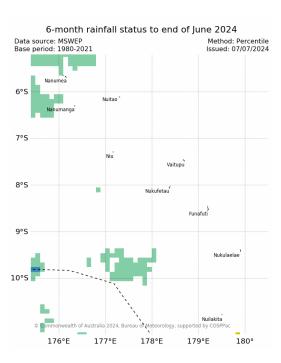
Rainfall observed for the last month, 3-months, 6-months and 12-months

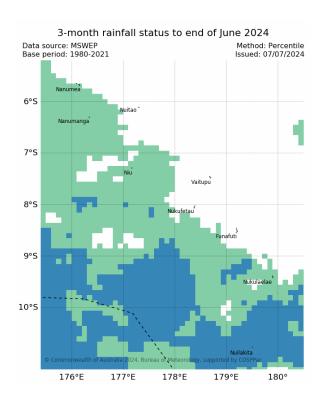
The table below provides information on rainfall received over specific periods in the last 12 months, whether a station is in drought or a very wet period (opposite of drought). If a station is in drought warning, this indicates an increased chances of drought in the coming months, especially when approaching the dry season. The time periods are associated with different drought impacts presented below the tables.

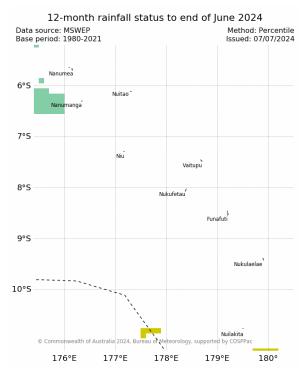
Past Rainfall Status					Very Dry/Wet Rainfall Outlook	
1-month June 2024	3-months April to June 2024	6-months January to June 2024	12-months May 2023 to June 2024	Tuvalu Islands	August 2024 Chance of extreme	August to October 2024 Chance of extreme
No Extreme	Very Wet	No Extreme	No Extreme	Nanumea	Medium Chance of Very Dry	Medium Chance of Very Dry
Seriously Wet	Very Wet	No Extreme	No Extreme	Nanumaga	Medium Chance of Very Dry	Medium Chance of Very Dry
No Extreme	No Extreme	No Extreme	No Extreme	Niutao	Medium Chance of Very Dry	Medium Chance of Very Dry
Seriously Wet	Very Wet	No Extreme	No Extreme	Nui	Low Chance of Extreme	Medium Chance of Very Dry
Seriously Wet	No Extreme	No Extreme	No Extreme	Vaitupu	Low Chance of Extreme	Medium Chance of Very Dry
Seriously Wet	No Extreme	No Extreme	No Extreme	Nukufetau	Low Chance of Extreme	Low Chance of Extreme
Very Wet	No Extreme	No Extreme	No Extreme	Funafuti	Low Chance of Extreme	Low Chance of Extreme
Seriously Wet	Very Wet	No Extreme	No Extreme	Nukulaelae	Medium Chance of Very Wet	Low Chance of Extreme
Seriously Wet	Seriously Wet	No Extreme	No Extreme	Niulakita	Low Chance of Extreme	Low Chance of Extreme

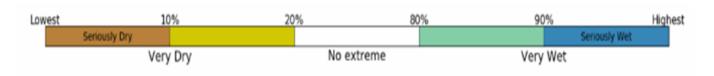
ACCESS-S Rainfall Summary for June, 2024.







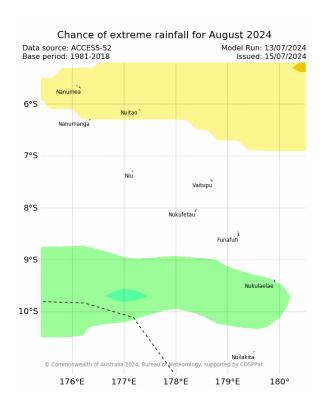


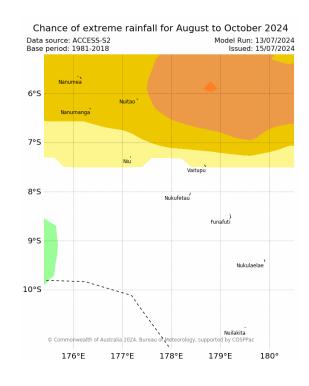


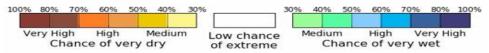
Time periods and impacts:

- **1 month** period is most relevant for shallow rooted crops (e.g. eggplant, cabbage, tomatoes, spring onions, watermelons, cucumber), small water tanks (e.g. 1000galloons) and household water cisterns. The following secondary health and social-economic have been associated with drought at the 1-month period. Diarrhoea, skin rash, cough and fever, red eye, desalination plant (increased power demand and higher water costs for households), health of babies and elderly people declines, schools close and construction stops.
- **2 months** period is most relevant for bottle gourd,pawpaw, banana, chicken, pigs and community cisterns. The following secondary social-economic and health impacts have been associated with drought at the 2-months period. Community gatherings stop, increased in community disputes over water and limited or no employment.
- **3 months** period is most relevant for pumpkin, groundwater and ponds. The following secondary social-economic and health impacts have been associated with drought at the 3-months period. Crimes increase e.g. water stealing, government offices close and national events postponed.
- **6 months** period is most relevant for large trees (e.g. breadfruits, pulaka, taro). The following secondary social-economic and heath impacts have been associated with drought at the 6-months periods. Meteorological balloon flights stop, interislands shipping delays, entry of visitors to Tuvalu restricted.
- **12- months** period is most relevant for felo, dragon fruits, pandanus, coconuts and ofega.

Very Dry/Wet Rainfall Outlooks for August, and August to October 2024







Outlook Status

The outlook provides the likelihood of receiving above normal to normal rainfall over the next three months and the following three months. The outlook does not indicate the amount of rainfall that may be received, how intense the rain may be in any one event, nor how it may vary from month to month.

Rainfall Status

- Estimates of moisture/water stress is based on recent rainfall compared with historical observations using the Percentile (Decile) Index.
- Definitions: "Very Dry" = rainfall in the lowest 20% of the historical record for that location and season, "Very Wet" = rainfall in the highest 20% for that location and season, "Seriously Dry" = rainfall in the lowest 10% of the historical record for that location and season, "Seriously Wet" = rainfall in the highest 10% for that location and season.

Contact Tuvalu Meteorological Service for further information:

Chief Meteorological Officer, Ministry of Public Works, Infrastructure, Water, Meteorology and Disaster, Vaiaku, Funafuti, Tuvalu.

Email: tauala.k@gmail.com , tuvalumet@gmail.com , tuvalumet@gov.tv

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