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 ***Issued: 27/05/2024***

"La Niña Watch is favoured across the Central Pacific."



• The El Nino-Southern Oscillation (ENSO) is currently Neutral and there are some early signs that a La Niña might form in the Pacific Ocean later this year. As result the ENSO outlook has shifted to La Nina Watch.

• Sea Surface Temperatures in the Central Pacific have been steadily cooling.

• The Climate modelling suggests that ENSO will likely remain neutral until at least July 2024.

RAINFALL STATUS:

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

Rainfall OUTLOOK:

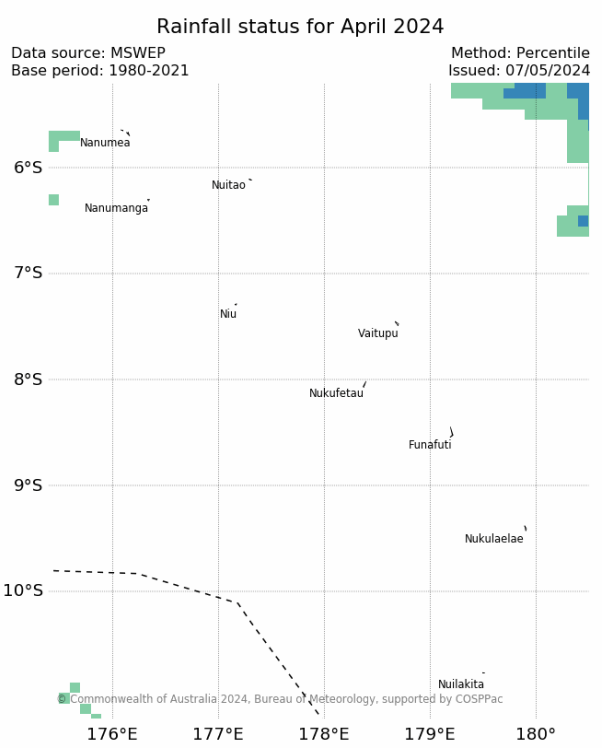
- **Medium chance of very wet** conditions predicted for June 2024 at Nanumea, Nanumaga, Niutao and Niulakita, but there is a **High chance of very wet** expected at Nui, Vaitupu, Nukufetau, Funafuti, and Niulakita while Nukulaelae predicted to be **Very high chance of very wet conditions.**
- May to July 2024, expected to be **Low chance of extreme** over Nanumea and **Medium chance of very wet** stretching over, Niutao and Nanumaga, while there is a **High chance of very wet** predicted for Nui, Vaitupu, Nukufetau, Funafuti, Nukulaelae and Niulakita.

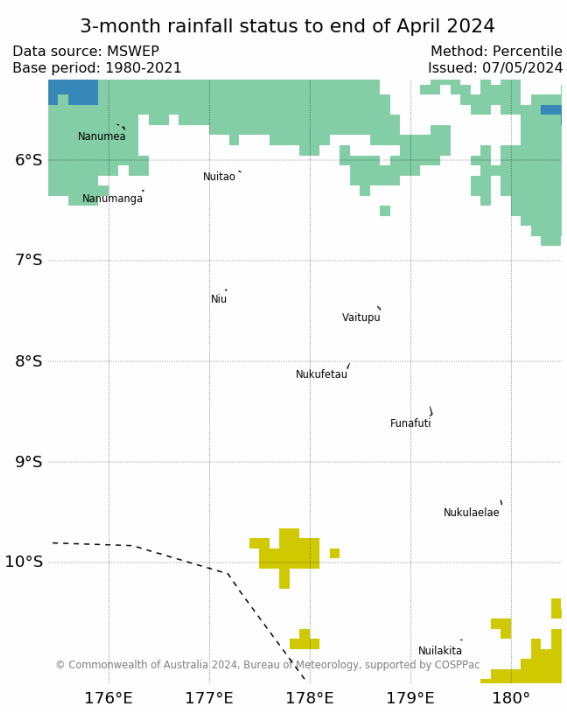
Rainfall observed for the last month, 3-months, 6-months and 12-months

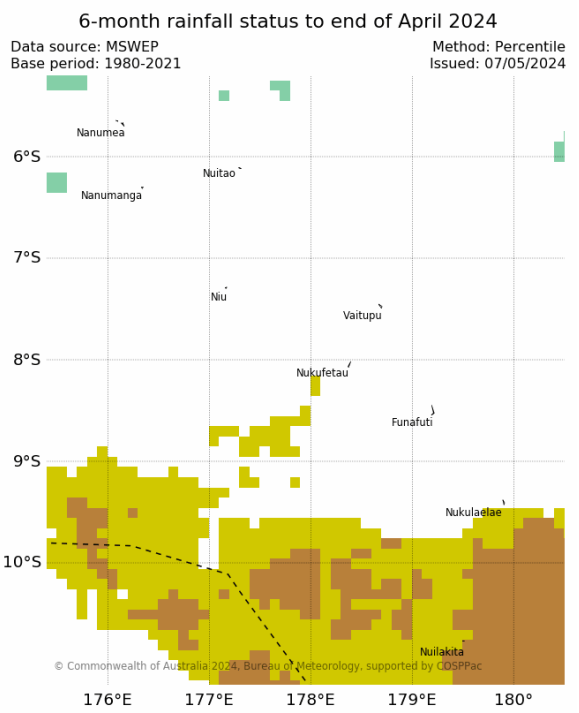
The table below provides information on rainfall received over specific periods in the last 12 months, whether a station is in drought or a very wet period (opposite of drought). If a station is in drought warning, this indicates an increased chances of drought in the coming months, especially when approaching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

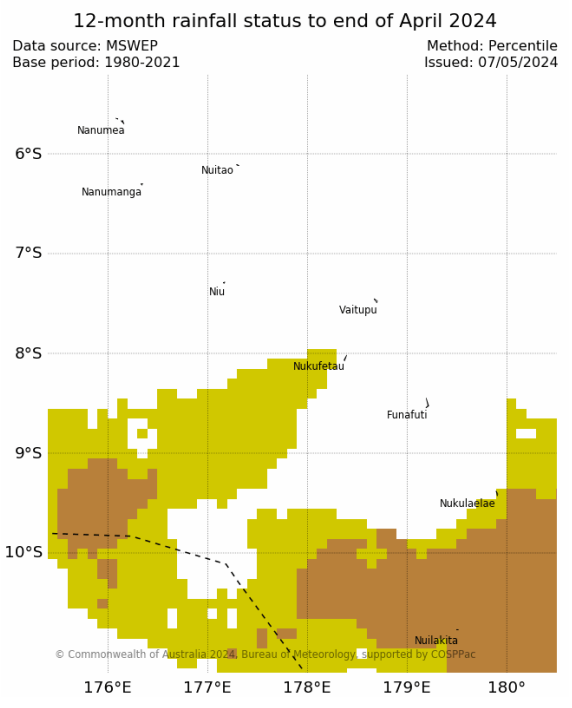
Past Rainfall Status						**Very Dry/Wet Rainfall Outlook**	
1-month April 2024	**3-months** February 2024 to April 2024	**6-months** November 2023 to April 2024	**12-months** March2023 to April 2024		**Tuvalu Islands**	**June 2024** Chance of extreme	June to August 2024 Chance of extreme
No Extreme	Ver Wet	No Extreme	No Extreme		**Nanumea**	Medium chance of extreme	Low Chance of Extreme
No Extreme	No Extreme	No Extreme	No Extreme		**Nanumaga**	Medium Chance of very wet	Medium Chance of very wet
No Extreme	No Extreme	No Extreme	No Extreme		**Niutao**	Medium chance of extreme	Medium Chance of Extreme
No Extreme	No Extreme	No Extreme	No Extreme		**Nui**	High Chance of Very Wet	High Chance of Very Wet
No Extreme	No Extreme	No Extreme	No Extreme		**Vaitupu**	High Chance of Very Wet	High Chance of Very Wet
No Extreme	No Extreme	No Extreme	No Extreme		**Nukufetau**	High Chance Very Wet	High Chance of Very Wet
No Extreme	No Extreme	No Extreme	No Extreme		**Funafuti**	High Chance of Very Wet	High Chance of Very Wet
No Extreme	No Extreme	No Extreme	No Extreme		**Nukulaelae**	Very high chance of Very Wet	High Chance of Very Wet
No Extreme	No Extreme	Seriously Dry	Seriously Dry		**Niulakita**	Medium Chance of Very Wet	High Chance of Very et

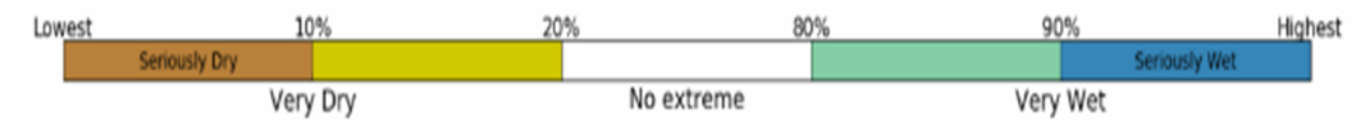
ACCESS-S Rainfall Summary for April, 2024.











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.

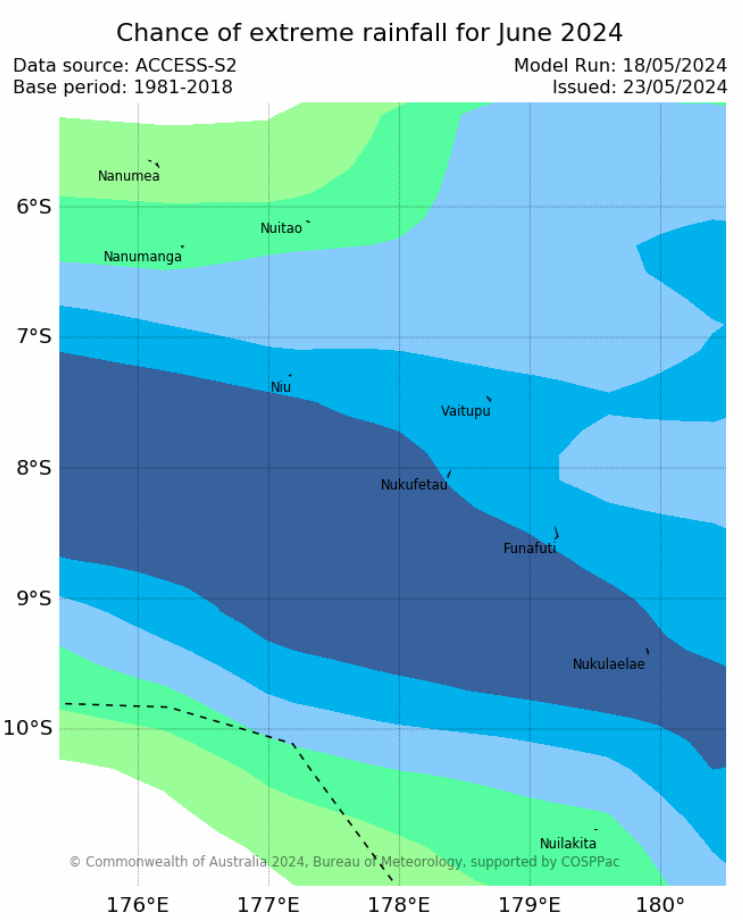
2 – months period is most relevant for bottle gourd,pawpaw, banana, chicken, pigs and community cisterns. The following secondary social-economic and health impacts have been associated with drought at the 2-months period. Community gatherings stop, increased in community disputes over water and limited or no employment.

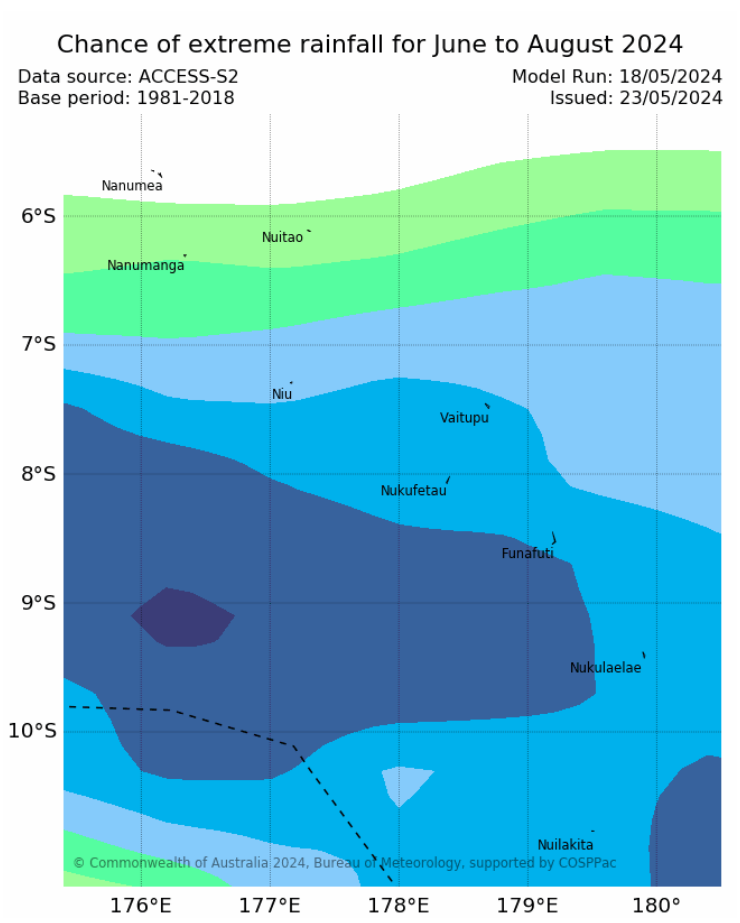
3 – months period is most relevant for pumpkin, groundwater and ponds. The following secondary social-economic and health impacts have been associated with drought at the 3-months period. Crimes increase e.g. water stealing, government offices close and national events postponed.

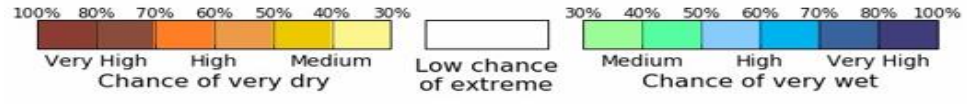
6 – months period is most relevant for large trees (e.g. breadfruits, pulaka, taro). The following secondary social-economic and heath impacts have been associated with drought at the 6-months periods.Meteorological balloon flights stop, interislands shipping delays, entry of visitors to Tuvalu restricted.

12- months period is most relevant for felo, dragon fruits, pandanus, coconuts and ofega.

Very dry/Wet Rainfall Outlooks for June, and June to August 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:
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website: tuvmet.tv, Facebook:<Tuvalu Meteorological Service>