Ministry of Meteorology,Energy,Information,Disaster Management,Environment,Climate Change & Communications

Climate Update

December 2022 to January 2023 Rainfall outlook

Issued: 4 November 2022

La Niña continues in the Pacific.

Average to Above average rainfall is forecast for the next 3 months.

Drought warning that was previously in force for Vava'u, Ha'apai, Tongatapu & 'Eua is now cancelled. Niuafo'ou continued to receive below average rainfall and is therefore remains in drought status

Recent

October 2022

Above average rainfall received across the country in October with extremely high rainfall recorded in Ha'apai. Niuafo'ou continue to receive below average rainfall since May (see graph & Table 2 below). The mean air temperature was 24.7°C which was 0.1°C warmer than average. Highest maximum temperature was 32.6°C recorded on the 5th at Nomuka. The lowest minimum temperature was 16.5°C recorded on the 14rd in Éua.



Average (1981-2010) October rainfall 2022 (mm

Table 2. Last 6 months rainfall

Rainfall totals for May – September 2022 (mm)							
	May	June	July	Au- gust	Sep- tember	Octo- ber	
Niuafo'ou	102.7	74.5	83.0	93.0	43.3	88.0	
Niuatoputapu	120.0	62.5	91.5	104.0	178	224.0	
Vava'u	79.1	40.5	76.7	105.9	57.5	164.3	
Ha'apai	72.8	18.5	21.0	32.0	94.0	406.0	
Fua'amotu	22.3	32.2	22.5	91.6	96.1	194.0	
Nuku'alofa	29.0	36.3	20.5	37.9	50.5	281.8	
'Eua	n/a	29.5	25.5	62.0	102.4	138.7	

Traditional knowledge indicators for the summer season.

- If you see bees building their nests indoors and lower near the ground in shelters or empty containers and coconuts, then it is an indication that there will be a cyclone in the season.
- If you see fruit bearing trees are heavy fruiting, for example mangoes oe breadfruit, then its an indication that there will be a cyclone in the season.
- When you see flowers starting to bloom especially the traditional flowers and also bananas starting to bear fruits then you know summer is coming.
- If you see plenty cockroaches in the house than usual and that they also fly, it indicates that rain in near within a few hours.
- If rain has just started and you see roosters/hens not hiding or finding shelter and Rooster continue to crow then its indication that the rain will not last long.

The next Climate update will be issued second week of December 2022 or earlier

Disclaimer:

This summary is prepared as soon as possible following the end of the month, once climate data is received from recording stations around Tonga. Delays in data collection, communication and processing occasionally arise. While every effort is made to verify observational data, the Tonga Meteorological Service makes no statements, representations, or warranties about the accuracy or completeness of, and you should not rely on, any information contained in this report. Despite our best efforts, TMS makes no warranties that the information in this publication is free of numerical errors. TMS disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs you might incur as a result of the information biolub eued as a guidance only. For further information about this forecast should be directed to the Director of the Tonga Meteorological Service, at P.O. Box 1380, Nuku'alofa. Or email at metstaff@met.gov.to Tel: (676) 35 123/7400062 or our website; http://www.met.gov.to for more information.

Current ENSO status



Forecast

Table 1: Forecast for December 2022 up to May 2023

fall Outlook for -Feb 2023: fall is forecast to be re rage across Tonga.		Dec 22— Feb 23 (% chance)	Mar—May 2023 (%) chance)	
	Niuafo'ou	41	38	
	Niuatoputapu	47	47	
	Vava'u	53	39	
ch — May 2023: fall is forecast to be age to above aver-	Ha'apai	51	49	
	'Eua	63	56	
	Tongatapu	56	46	
for Tonga.	Below average	Average (usual)	Above average	

Note:

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> La Niña continues in the Pacific Basin. Models indicate a return to ENSO-neutral conditions (neither La Niña nor El Niño) early in 2023. La Niña possibly increases the chance of receiving above average rainfall during the wet season across Tonga.

According to the current status, previous 3 months rainfall and rainfall outlook (Refer Table 1 & 2), it is advised to collect water when it rains and use it wisely. Public are advised to ensure that you stay alert at all times and get the latest weather forecast and warnings from the Met service. It is also advisable to seek advice from relevant authorities of sensitive sectors, e.g. Agriculture, Water, Health and the National Emergency Management Office (NEMO) on the best practices to save lives and property and minimize the effects of natural disaster.

