



Rainfall and Temperature Outlook over Maldives

For May 2025

Summary

Rainfall is expected to be normal over southern atolls, below-normal over part of northern atolls and above-normal over rest of the country. Maximum and minimum temperatures expected to be slightly higher than usual.

Introduction

This consensus outlook on rainfall and temperature for the Maldives has been prepared through assessments of the prevailing and prediction of global climate conditions, and seasonal forecasts from different climate models including WMO Lead Centre for Long-Range Forecast Multi-Model Ensemble (LC-LRFMME), North American Multi-Model Ensemble (NMME), multi-model ensemble climate prediction of RIMES, forecasts of monthly climate anomalies and monthly forecasts of European Centre for Medium-Range Weather Forecasts (ECMWF).

Current status and expected condition of major climate drivers.

Currently, neutral El Niño Southern Oscillation (ENSO) conditions are prevailing over the equatorial Pacific Ocean with near-average equatorial sea surface temperature (SST) across most of the Pacific Ocean. The prevailing neutral conditions are favoured to continue during the upcoming months.

Neutral Indian Ocean Dipole (IOD) conditions are prevailing over the Indian Ocean and the condition is expected to continue in the upcoming months.

The Madden-Julian Oscillation (MJO) index is forecast to propagate eastwards over Western Hemisphere during the first week of May.

Calibration of climate models

The Climate Predictability Tool (CPT) was used to downscale global model outputs to a local scale. These results indicate slightly above-normal rainfall over the country.

Global Producing Centres and WMO Lead Centre Forecasts

The Probabilistic Multi-Model Ensemble of WMO LC-LRFMME suggests climatological probability for precipitation and above-normal temperature across the country.





Condition of Rainfall and Temperature over the Maldives during May

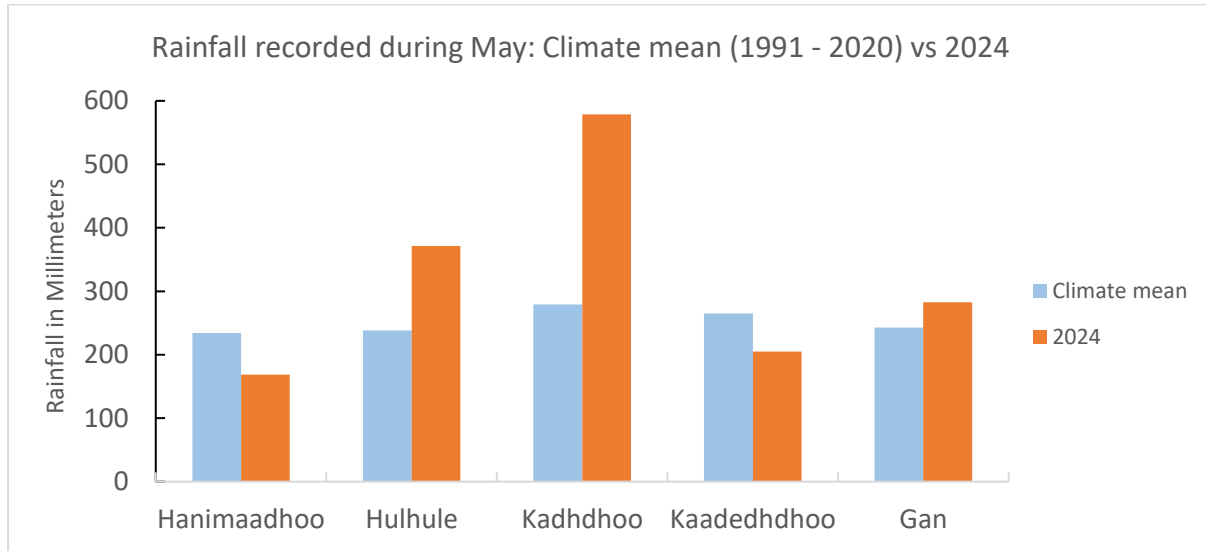


Figure 1- Rainfall of May 2024 was below-normal in Hanimaadhoo and Kaadedhdhoo, above-normal in other stations.

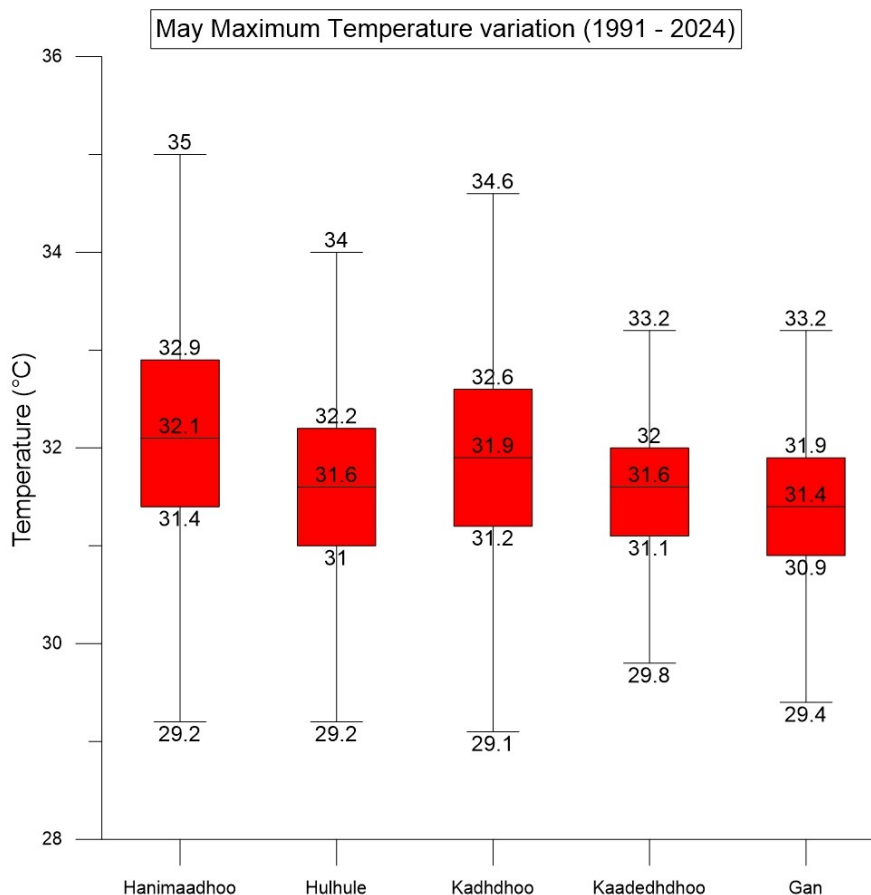


Figure 2: Daily maximum temperature range at Meteorological stations in May for the period 1991-2024, showing the highest maximum temperature of 35.0°C recorded at Meteorological Office Hanimaadhoo.



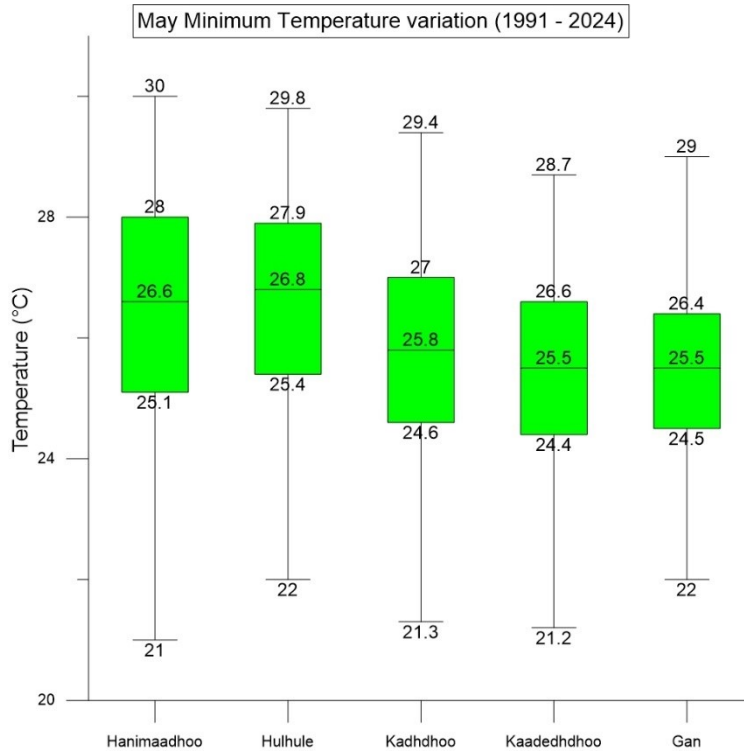


Figure 3: Daily minimum temperature range at the Meteorological stations in May for the period 1991-2024, showing the lowest minimum temperature of 21.0°C at the Meteorological Offices, Hanimaadhoo

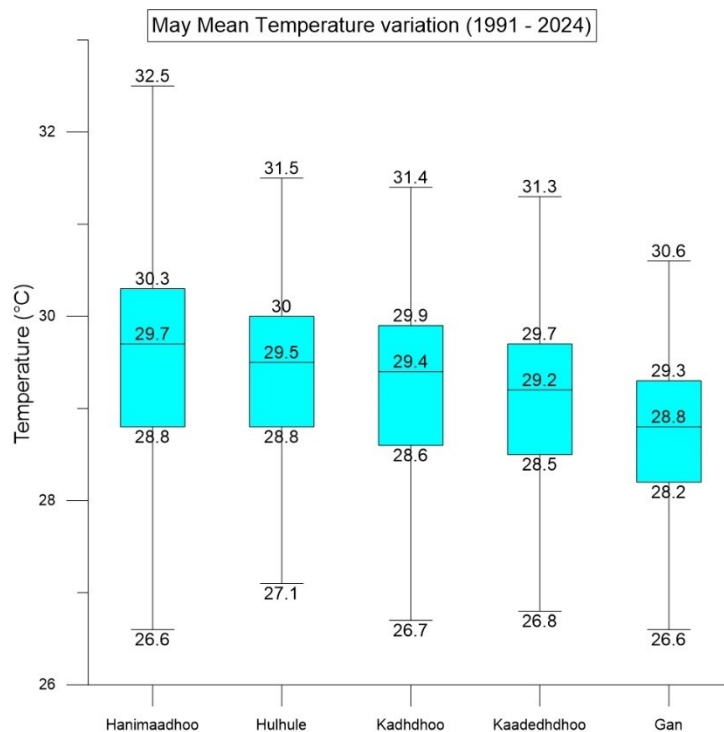


Figure 4: Daily mean temperature range at Meteorological stations in May for the period 1991-2024, showing most (50%) of the time, the daily average temperature lies between 28.8– 30.3°C in Hanimaadhoo, 28.8 – 30.0°C in Hulhule, 28.6 – 29.9 °C in Kadhdhoo, 28.5 – 29.7 °C in Kaadedhdhoo and 28.2 – 29.3 °C in Gan.





Regional outlook

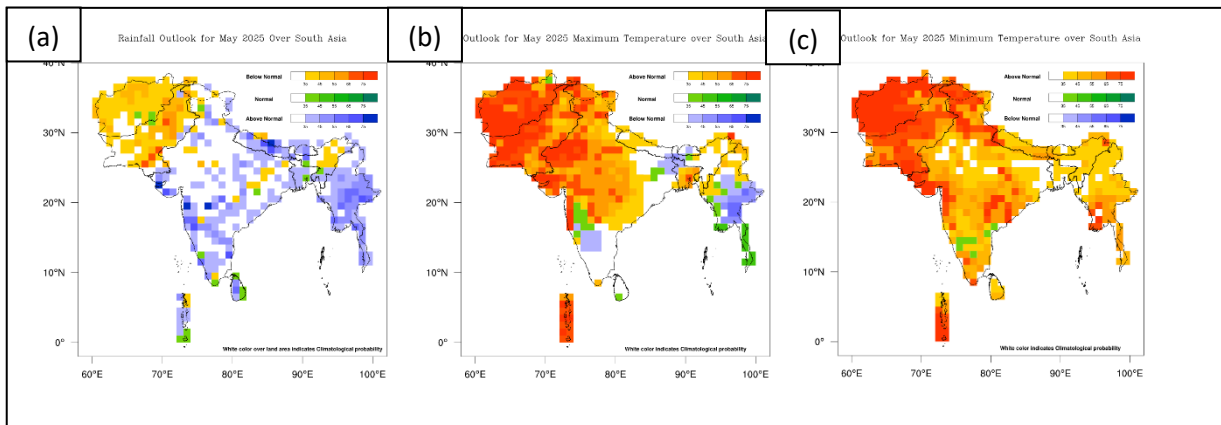


Figure 5: Outlook for (a) Rainfall, (b) Maximum Temperature & (c) Minimum Temperature over South Asia for May 2025

Conclusion

Considering expected conditions of climate drivers and seasonal prediction, rainfall is expected to be normal over southern atolls, below-normal over part of northern atolls and above-normal over rest of the country.

Maximum and minimum temperatures expected to be slightly higher than usual.

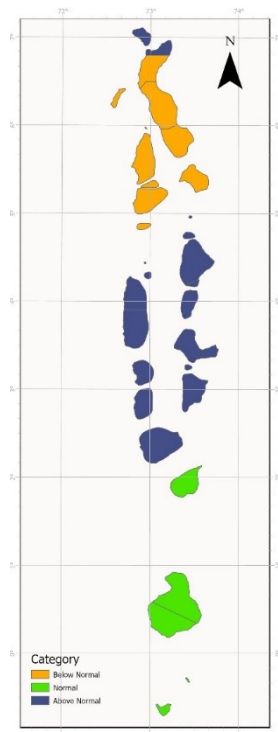


Figure 6: Expected rainfall condition over the Maldives for May 2025

Note:

Normal: Amount of rainfall between 90% - 110% of the average for the period.

Above normal: Amount of rainfall more than 110% of the average for the period.

Below Normal: Amount of rainfall less than 90% of the average for the period

