



50 Years of
Meteorological Service
1974 - 2024

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Maldives Meteorological Service

Rainfall and Temperature Outlook over Maldives

For April 2025

Summary

Rainfall is expected to be below-normal over southern atolls and normal to slightly above-normal over rest of the country. The average temperature is expected to be higher than usual over the country.

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.

El Niño Southern Oscillation (ENSO): All the models suggest ENSO-neutral conditions will persist during April to May 2025.

The Indian Ocean Dipole (IOD): Most models forecast IOD neutral condition during the month of April 2025.

Madden-Julian Oscillation (MJO): MJO index is currently weak amplitude and located over Western Pacific Ocean. Most models indicate its eastward propagation and reach over the Western Hemisphere and African continent with weak amplitude towards end of the month.

Calibration of climate models

The Climate Predictability Tool (CPT) was used to downscale global model outputs to a local scale. These results indicate normal rainfall over northern and central atolls, below-normal rainfall over the southern atolls.

Global Producing Centers and WMO Lead Centre Forecasts

The Probabilistic Multi-Model Ensemble of WMO LC-LRFMME strongly suggests below-normal rainfall over southern atolls and normal to slightly above normal over central and northern atolls. Temperatures are predicted to be above-normal across the country.



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AT THE FRONTLINE OF CLIMATE ACTION



Condition of Rainfall and Temperature over the Maldives during March

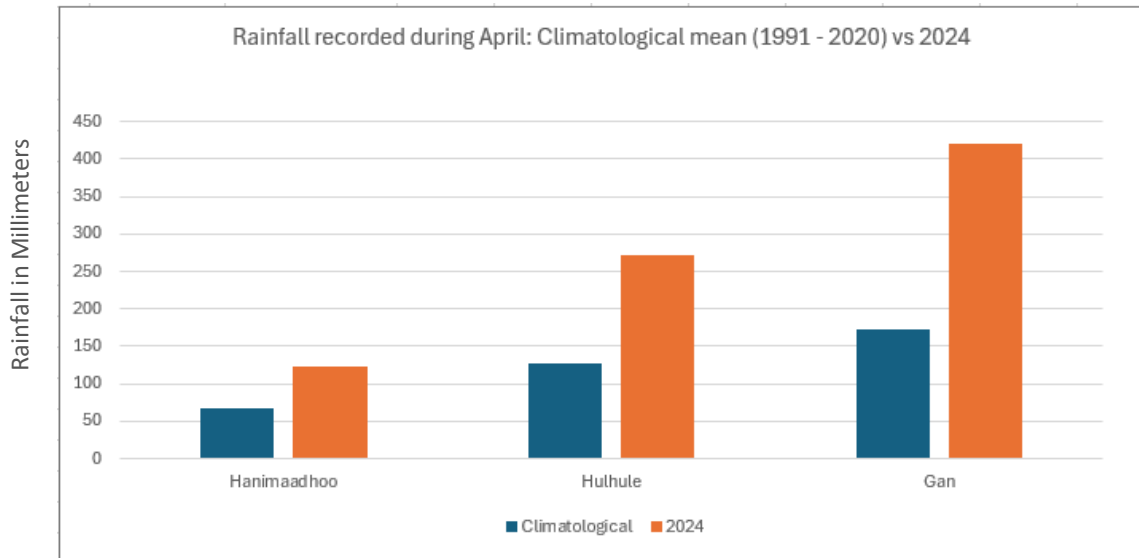


Figure 1- Rainfall was higher over all regions (northern, central and southern atolls), where a significant increase rainfall was experienced over southern atolls for the month of April 2024.

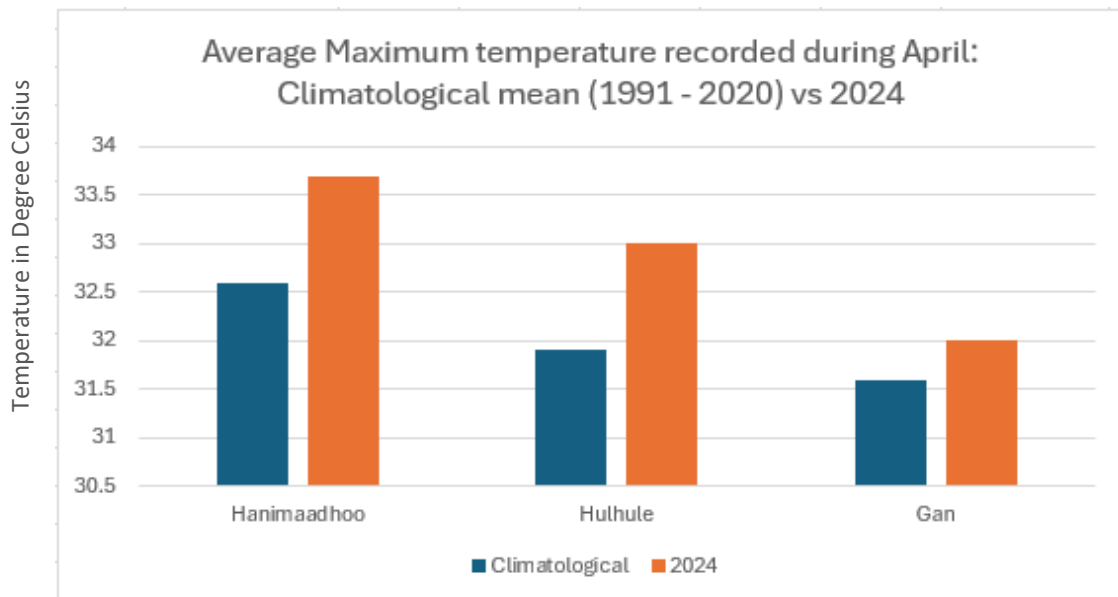


Figure 2: Maximum temperature was higher than climatological mean (1991 – 2020) at all station in the month of April-2024, showing the highest maximum temperature of 33.7°C recorded at Meteorological Office Hanimaadhoo.



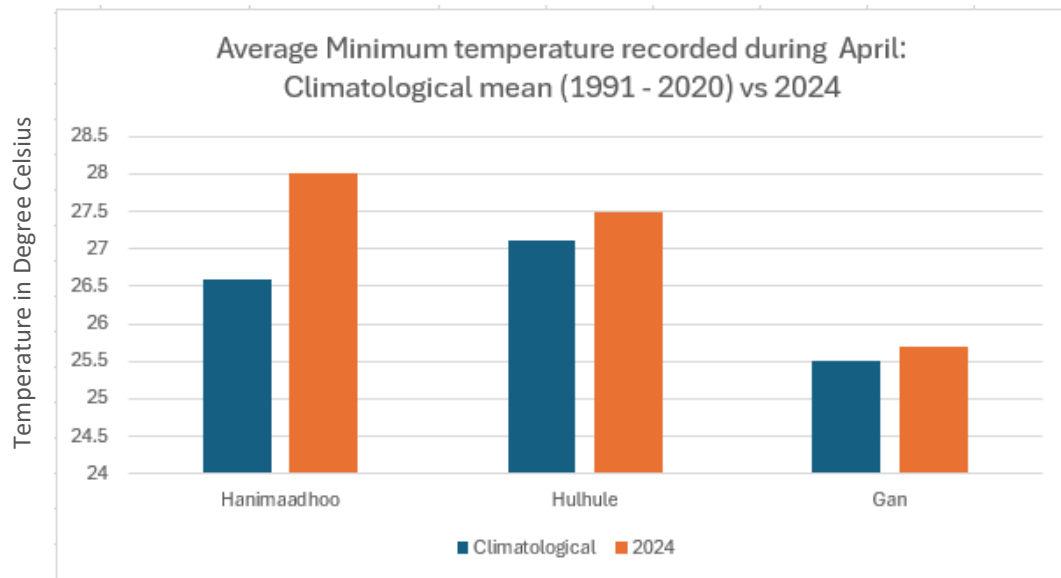


Figure 3: Minimum temperature was Higher than climatological mean (1991 – 2020) at all station in the month of April-2024, showing the highest minimum temperature of 28.0°C recorded at both Hanimaadhoo.

Conclusion

Considering expected conditions of climate drivers, seasonal prediction and observed rainfall over the country, rainfall is expected to be below-normal over southern atolls and slightly above-normal over rest of the country. The average temperature is expected to be higher than usual.

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

