



50 Years of  
Meteorological Service  
1974 - 2024

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Maldives Meteorological Service

## Rainfall and Temperature Outlook over Maldives

For March 2025

### Summary

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

El Niño Southern Oscillation (ENSO): La Niña conditions has been ceased during the month of February 2025. All the models suggest transition to ENSO-neutral conditions during March-May.

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

Madden-Julian Oscillation (MJO): MJO index is currently weak amplitude and located over Western Indian Ocean. Most models indicate its eastward propagation and reach over the maritime 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 above-normal rainfall over northern and central atolls, below-normal rainfall over rest the country.

### Global Producing Centers and WMO Lead Centre Forecasts

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



Hulhule', 22000, Republic of Maldives  
+960 332 3084  
info@met.gov.mv  
www.meteorology.gov.mv

@MetMaldives  
Instagram, Facebook, Twitter, YouTube icons

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AT THE FRONTLINE OF CLIMATE ACTION



## Condition of Rainfall and Temperature over the Maldives during March

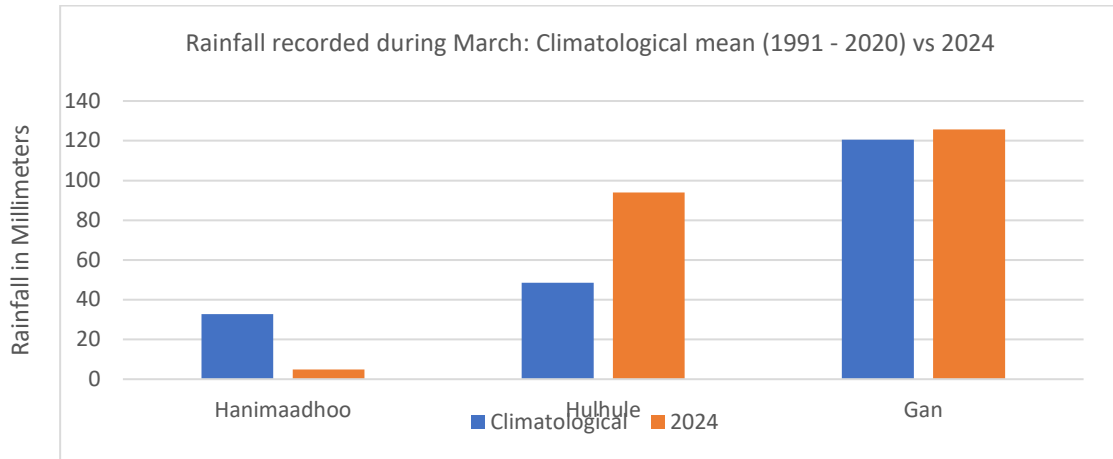


Figure 1- Rainfall was higher over central and southern atolls except northern atolls, where a highly deficient rainfall was experienced for the month of March 2024.

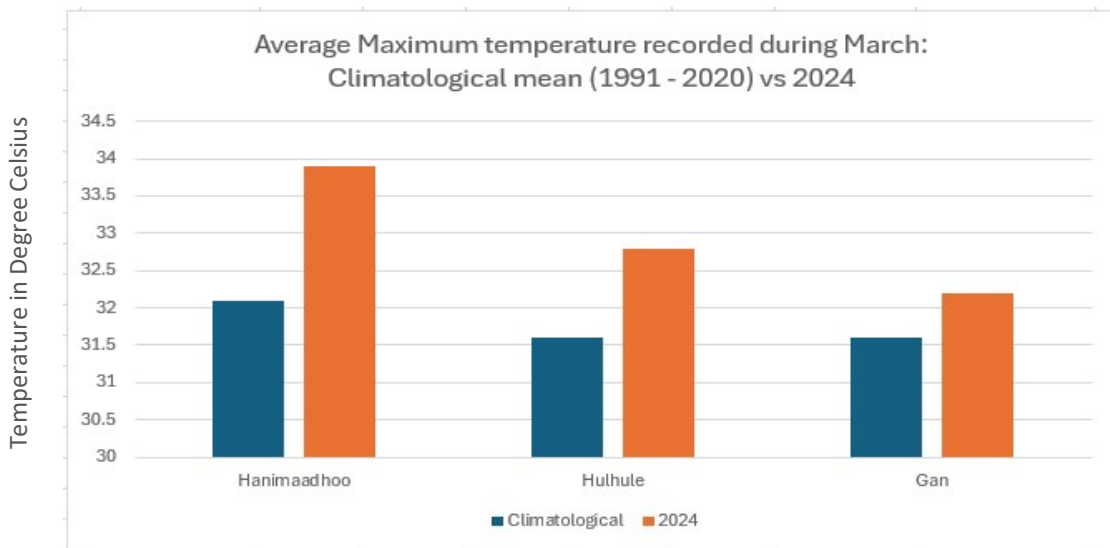


Figure 2: Maximum temperature was higher than climatological mean (1991 – 2020) at all station in the month of March-2024, showing the highest maximum temperature of 33.9°C recorded at Meteorological Office Hanimaadhoo.



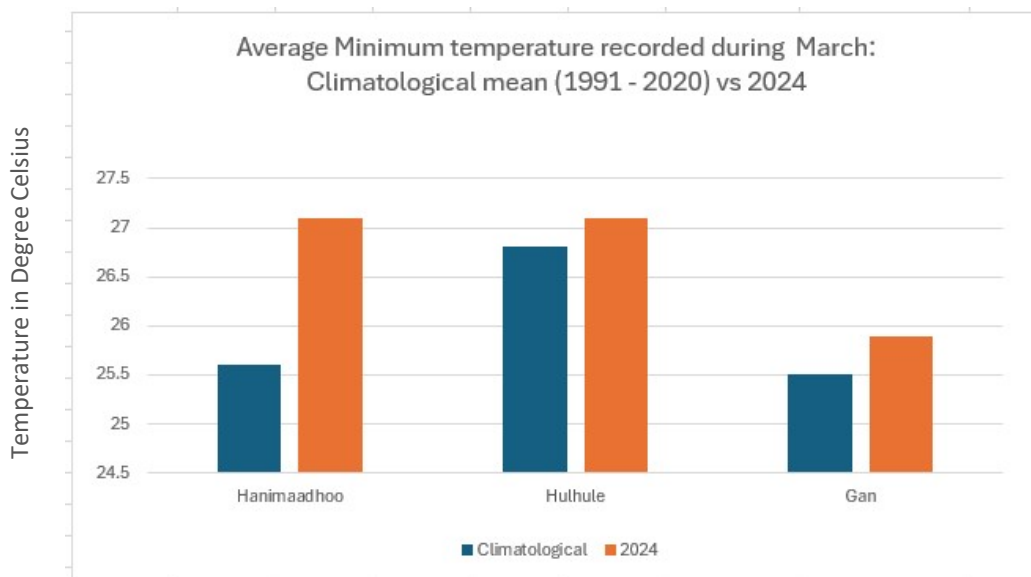


Figure 3: Minimum temperature was Higher than climatological mean (1991 – 2020) at all station in the month of March-2024, showing the highest minimum temperature of 27.1°C recorded at both Hanimaadhoo and Hulhule Meteorological Office respectively.

### 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 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*

