

Maldives Monthly Climate Outlook

For October 2025

Summary

Rainfall is likely to be below-normal in all areas. Maximum and maximum temperatures are expected to be above-normal 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, Rainfall and temperature outlook for south Asia, monthly climate anomalies and monthly forecasts of European Centre for Medium-Range Weather Forecasts (ECMWF).

Current status and expected condition of major climate drivers.

The El Niño Southern Oscillation (ENSO) conditions remain in neutral , with near average sea surface temperatures (SSTs), with slight cooling trends being observed. However, model forecasts and observations suggest a transition toward weak La Niña may occur in the coming months.

The Indian Ocean Dipole (IOD) has recently been declared negative. The IOD index has reached threshold for 8 consecutive weeks, sufficient to be classified as a negative IOD event. The Madden-Julian Oscillation (MJO) is currently over Western Pacific with weak amplitude. Most models suggest some weak clockwise progression over the next week, but then weakening and little coherent propagation thereafter.

Calibration of climate models

The Climate Predictability Tool (CPT) was used to downscale global model outputs to a local scale. The assessed precipitation models indicate a slightly drier than normal condition throughout the Maldives.



Global Producing Centres and WMO Lead Centre Forecasts

The Probabilistic Multi-Model Ensemble from the WMO LC-LRFMME for October indicates a higher probability of below-normal rainfall across the country. The temperature outlook shows a higher probability for above-normal temperatures across the country.

Temperature and Rainfall Climatology over the Maldives during October

- Temperature

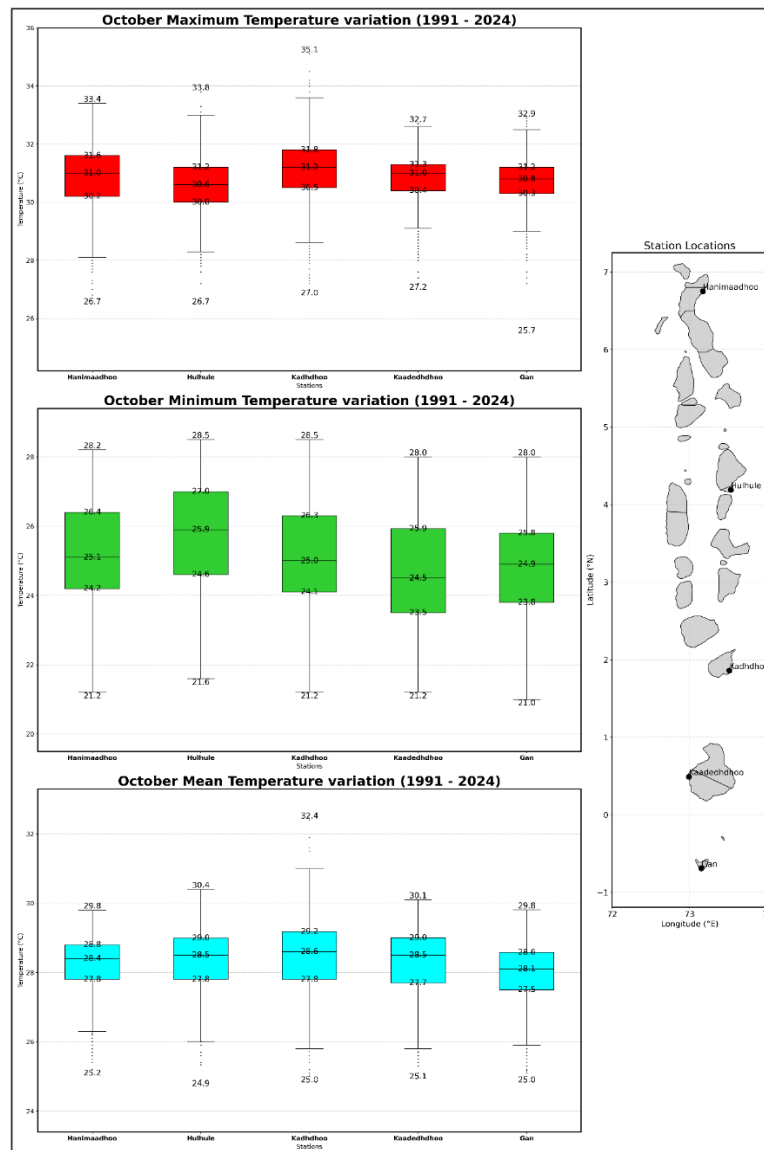


Figure 1 The image presents the distribution of daily maximum, minimum and mean temperatures recorded at five meteorological stations for the period 1991 – 2024. The small map on the right highlights the geographical location of these stations. The distribution of temperature shows maximum temperatures between 30.6°C and 31.2°C with highest maximum temperature of 35.1°C in Kadhdhoo area. Minimum temperatures between 24.5°C and 25.9°C with lowest minimum of 21.0°C at Gan area. Mean temperatures between 28.1°C and 28.6°C with highest mean temperature of 32.4°C at Kadhdhoo area.



• Rainfall

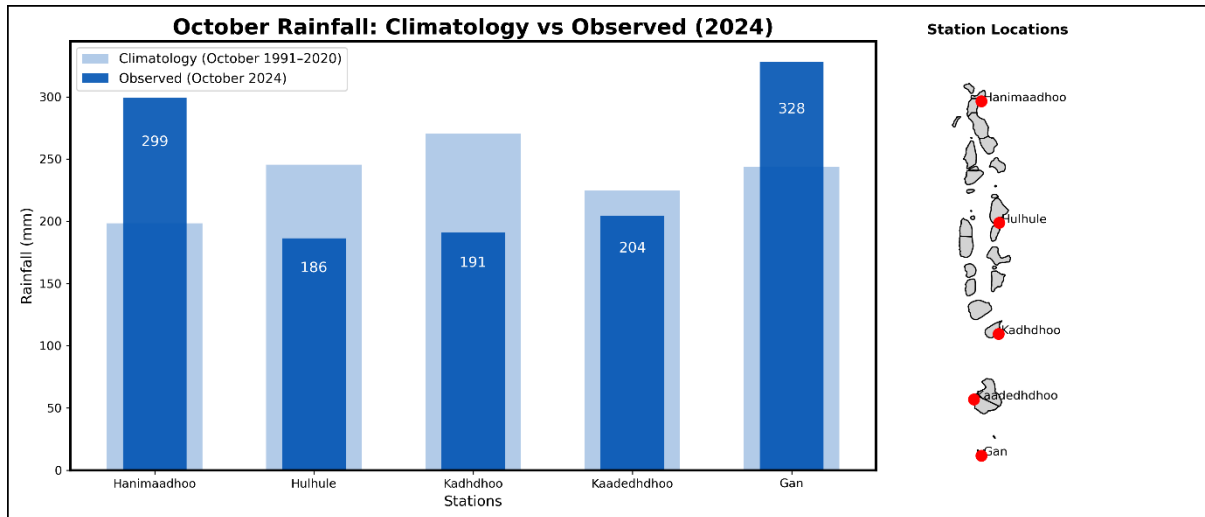


Figure 2 The image presents the comparison of October rainfall climatology for the period 1991-2020 with observed rainfall in October 2024 for five stations across Maldives and the map on the right side, highlights the geographical locations of the rainfall stations. The light-colored bars represent the long-term climatology and darker bars show rainfall observed in October 2024, with values labeled on each bar. Hanimaadhoo and Gan received significantly higher rainfall than climate mean, Kaadedhdhoo was in normal range, while Hulhule Kadhdhoo were slightly below-normal compared to long-term average. It shows rainfall varied widely across the country with wetter than usual in northern and southern-most atolls, drier in central and part of southern atolls.

Conclusion

Considering the expected conditions of climate drivers, and seasonal prediction from global and regional centers, rainfall is likely to be below-normal across all areas of Maldives. Maximum temperatures are expected to be above-normal and minimum temperatures are expected to be above-normal throughout the country.

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

