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Maldives Meteorological Service

Rainfall and Temperature Outlook over Maldives

For November 2020

Summary

Below normal rainfall is likely across the country during November 2020. Temperature is expected to be above normal during the month.

Introduction

This consensus outlook for Maldives has been developed through assessments including prevailing regional and global climate condition and prediction of various models, seasonal forecast of WMO Lead Centre for Long-Range Forecast Multi-Model Ensemble (LC-LRFMME), NMME Probability Forecasts of Monthly Climate Anomalies and calibrating climate models.

El Niño -Southern Oscillation (ENSO): La Niña condition presents with currently below average Equatorial Sea Surface Temperatures (SSTs) from west-central to eastern Pacific Ocean. The condition is likely throughout November.

Indian Ocean Dipole (IOD): IOD is neutral and likely to maintain neutral value during the month.

Madden-Julian Oscillation (MJO): MJO signal currently over western Pacific (phase 6) and is expected eastward propagation during first week. The signal may enter into phase 8 by 2nd week and remain weak till end of the month.

Calibration of climate models

Calibration of some GCM output with station observed rainfall data show below normal rainfall across the country.

Global Producing Centres and Lead Centre

Probabilistic Multi-Model Ensemble of WMO Lead Centre for Long Range Forecast Multi-Model Ensemble indicates normal rainfall over southern-most atolls and below normal rain





over rest of the country for November 2020. Most of individual models indicate below normal rainfall in across the country for November.

Probabilistic Multi-Model Ensemble of WMO Lead Centre for Long Range Forecast Multi-Model Ensemble indicates above normal Temperature across the country for November 2020.

Climate condition

Southwest monsoon (Hulhangu Moosun) continues over Maldives.

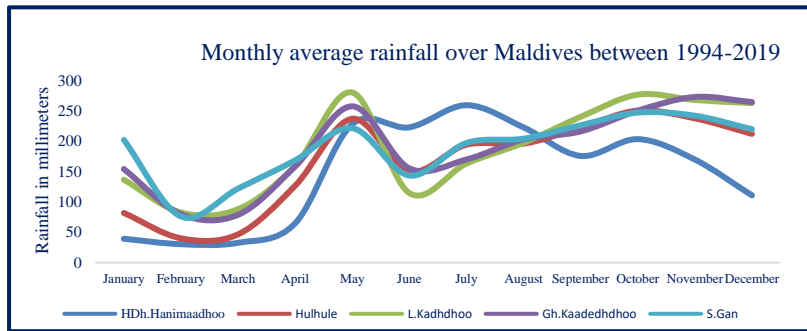


Figure 1 Peak rainfall in May and October.

Figure 1 shows monthly rainfall recorded in five Meteorological stations. There is a decreasing trend in rainfall for all areas during November.

Figure 2 shows spatial distribution of rainfall across the country during November. Highest amount rainfall receives in northern part of southern atolls. Northern atolls receive relatively less rain than central and southern atolls.

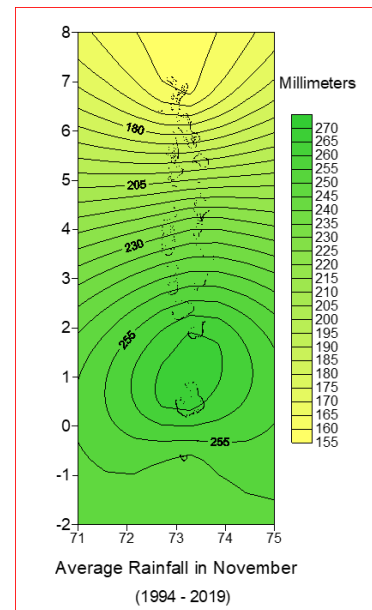


Figure 2 Spatial distribution of rainfall over the country during November

Conclusion

By considering the Multi-Model Ensemble of WMO Lead Centres, individual models, climate data, expected MJO, IOD and ENSO conditions, below normal rainfall is likely across the country during November 2020.

Temperature is likely to be above normal across the country during the month.

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.

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