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Maldives Meteorological Service

Rainfall and Temperature Outlook over Maldives

For October 2020

Summary

While normal rainfall is expected in southern-most atolls, below normal rainfall is likely over rest of the country during October 2020. Temperature is expected to be above normal across the country during this 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) across east-central and eastern Pacific Ocean.

Indian Ocean Dipole (IOD): IOD condition is neutral and likely to become negative during the month.

Madden-Julian Oscillation (MJO): MJO signal currently over phase 4 and likely to maintain over Maritime Continent during October.

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 above normal rainfall over southern-most atolls and below normal rain over rest of the country for October 2020. Most of individual models indicate below normal



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rainfall in northern atolls, normal-to-below normal in central atolls and normal-to-above normal rainfall in southern atolls.

Probabilistic Multi-Model Ensemble of WMO Lead Centre for Long Range Forecast Multi-Model Ensemble indicates above normal Temperature across the country for October 2020. Most individual models indicate above normal Temperature in all areas.

Climate condition

Southwest monsoon (Hulhangu Moosun) continues over Maldives.

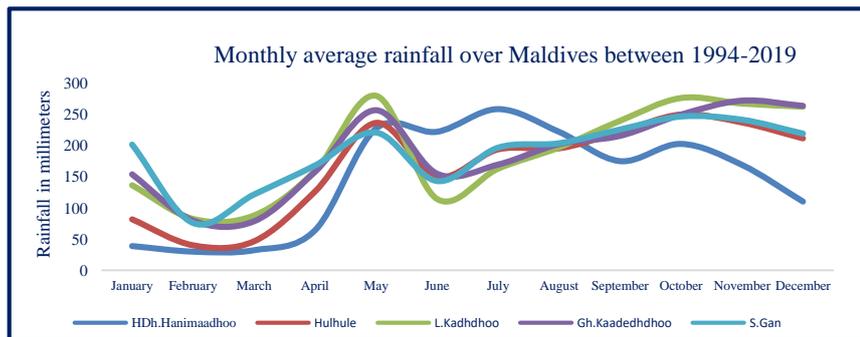


Figure 1 Peak rainfall in May and October.

Figure 1 shows monthly rainfall recorded in five Meteorological stations. There is an increasing trend in rainfall in all areas. During this month, southern atolls receive relatively high rainfall than central and northern atolls.

Conclusion

By considering the Multi-Model Ensemble of WMO Lead Centres, individual models, climate data, expected MJO, IOD and ENSO conditions, normal rainfall is likely in southern-most atolls while below normal rainfall is expected to rest of the country during October 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.

References

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