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## Maldives Meteorological Service

### Rainfall Outlook over Maldives

For September 2019

#### Summary

Average (normal) rainfall likely in northern atolls while rest of the country expected to receive below normal rainfall during September 2019. Monsoonal rainfall occurs during September.

#### Introduction

This consensus rainfall outlook for Maldives has been developed through an expert assessment of the prevailing regional and global climate conditions, seasonal forecast products of WMO Lead Centre for Long-Range Forecast Multi-Model Ensemble (LC-LRFMME) and calibrating climate models.

**El Niño -Southern Oscillation (ENSO):** ENSO-neutral conditions are present with above average Equatorial sea surface temperatures (SSTs) through western and central Pacific Ocean and below average in the eastern Pacific.

**Indian Ocean Dipole (IOD):** IOD is currently positive and models indicate continuing in the same condition throughout September.

**Madden-Julian Oscillation (MJO):** MJO signal remains weak over Maritime Continent. Some models indicate weak signal to continue over the same area as well as over Indian Ocean for first half of the month. Other models indicate eastward propagation of the signal with slight increase in amplitude. Probability of rain activity increases for the second half of the month.

#### Calibration of climate models

Calibration of GCM SST using global data set with station observed rain data depicts slightly above normal rainfall in central area and southern-most area while below normal rainfall over rest of the country for September 2019.

Probabilistic Multi-Model Ensemble of WMO lead centres for long-range climate indicates few atolls in northern area to receive normal rainfall and rest areas to receive below normal rainfall.



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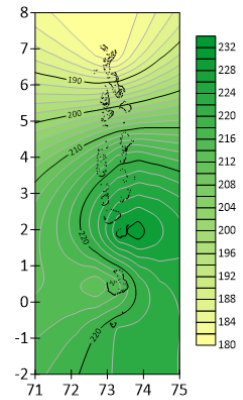


## Climate condition

During September, rainfall on average accounts for 17%, 21%, 22%, 20% and 21% in Hdh.Hanimaadhoo, Hulhule', L.Kadhdhoo, Gdh.Kaadhdhoo and S.Gan area respectively.

## Conclusion

By considering the prevailing ENSO-neutral condition, positive IOD condition and expected MJO weak eastward propagation as well as Multi-Model Ensemble of WMO Lead Centres, average rainfall likely over northern atolls while central and southern atolls most likely below normal rainfall during September 2019.



*Spatial distribution of rainfall over the country during September*

### 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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