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## Maldives Meteorological Service

### Rainfall and Temperature Outlook over Maldives

For April 2020

#### Summary

Average Temperature likely above normal throughout the country during April 2020. Rainfall likely below normal in all areas with chances to be normal in southern atolls during April 2020.

#### 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), calibrating climate models and ECMWF monthly forecast on

**El Niño -Southern Oscillation (ENSO):** ENSO-neutral condition prevails near-to-above average Equatorial Sea Surface Temperatures (SSTs) across the Pacific Ocean.

**Indian Ocean Dipole (IOD):** IOD remain neutral and same condition is expected throughout April.

**Madden-Julian Oscillation (MJO):** MJO is currently enhanced over Maritime Continent and expected to weak rapidly and locate within the unit circle. It has chances to emerge in to phase-8 by the second week. Signal likely in the Indian Ocean during later half of the month.

#### Calibration of climate models

Calibration of GCM output with station observed rain data suggests above normal rainfall in southern atolls and below normal rainfall in central and northern atolls during April 2020.

#### Global Producing Centres and Lead Centre

Probabilistic Multi-Model Ensemble of WMO lead centre for long-range climate indicates above normal temperature and below normal rainfall throughout the country during April 2020. Most of individual model suggests below normal rainfall during the month. However, there are chances for normal rainfall in southern atolls.



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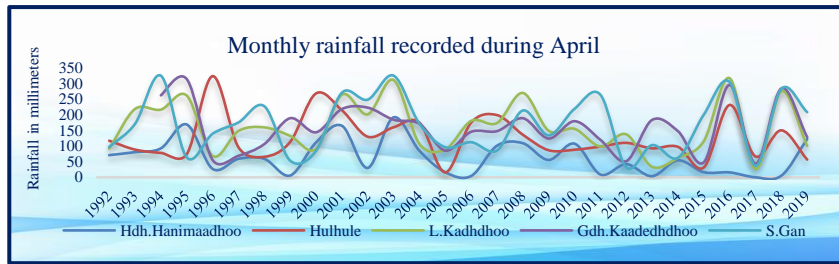
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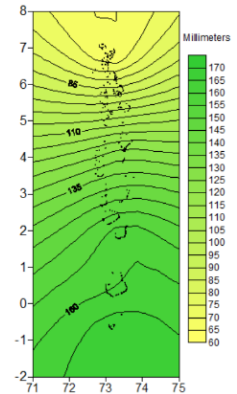
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## Climate condition



April is the transition period from Northeast monsoon (*Iruvai moosun*) to Southwest monsoon (Hulhangu Moosun). During this month, southern atolls receive relatively higher rainfall than central and northern atolls.



*Spatial distribution of rainfall over the country during April*

## Conclusion

By considering MJO signal over Indian Ocean and its expected eastward propagation, calibration of GCM output with station rainfall as well as Multi-Model Ensemble of WMO Lead Centre with individual models, rainfall likely below normal in all areas with chances become normal in southern atolls during April 2020.

Temperature likely above normal during April 2020.

### *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

- Bureau of Meteorology, Australia. (2020, March 31). *ENSO Wrap-Up current state of the Pacific and Indian Oceans*. Retrieved from <http://www.bom.gov.au/climate/enso/#tabs=Indian-Ocean>
- Climate Prediction Center / NCEP. (2020, March 30). *ENSO: Recent evolution, current status and predictions*. Retrieved from [https://www.cpc.ncep.noaa.gov/products/analysis\\_monitoring/lanina/enso\\_evolution-status-fcsts-web.pdf](https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf)
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