

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



ދިވެހިރާއްޖޭގެ ވާނަދި ދިވެހިރާއްޖޭގެ ވާނަދި

Maldives Meteorological Service

Rainfall and Temperature Outlook over Maldives

For February 2022

Summary

Rainfall is likely to be above normal over northern atolls and part of central atolls, below normal over rest of the country.

Temperature is expected to be above normal in all areas during the month.

Introduction

This consensus outlook on rainfall and temperature for Maldives has been prepared through assessments including prevailing regional and global climate condition and prediction of various climate models, seasonal forecast of WMO Lead Centre for Long-Range Forecast Multi-Model Ensemble (LC-LRFMME), North American Multi-Model Ensemble (NMME) Forecasts of Monthly Climate Anomalies, and monthly forecasts of European Centre for Medium-Range Weather Forecasts (ECMWF).

Current status of major climate drivers.

El Niño Southern Oscillation (ENSO): La Niña conditions are present with below average equatorial sea surface temperatures across east-central and eastern Pacific Ocean. Models indicate the same condition during February 2022.

Indian Ocean Dipole (IOD): Current global models indicate neutral IOD value and that it would remain in same condition during February 2022.

Madden-Julian Oscillation (MJO): MJO is expected to be weak over phase 3 at the beginning of the month and likely become enhanced over the same region during the 2nd week. Thereafter it is expected to propagate eastward to Maritime Continent and become weak towards end of the month.



www.meteorology.gov.mv | info@met.gov.mv | +960 3323084 | +960 3320021

22000 ވާނަދި ވާނަދި Hulhule' 22000 Republic of Maldives

@MetMaldives

#MetMaldives





Calibration of climate models

Climate Predictability Tool (CPT) was used to downscale global model outputs to local scale. These results indicate below normal rainfall in all areas.

Global Producing Centres and WMO Lead Centre Forecasts

Probabilistic Multi-Model Ensemble of WMO LC-LRFMME indicates above normal rainfall over northern atolls and part of central atolls, below normal rainfall over southern-most atolls and climatological probability over rest of the country during February 2022. Probabilistic Multi-Model Ensemble of WMO LC-LRFMME indicates above-normal Temperature across the country for February 2022.

Climatic condition during the month of February

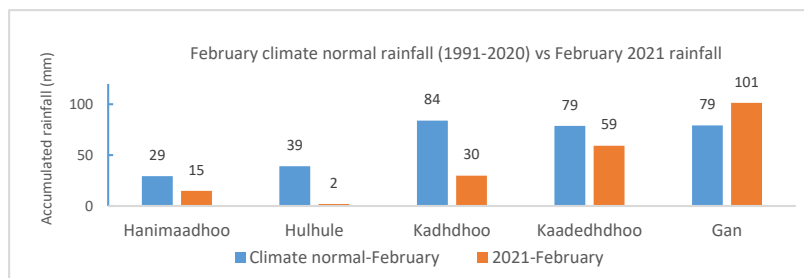


Figure 1- In February 2021, Gan station received relatively high amount of rainfall while all other stations received less rainfall than climate normal rainfall for the month.

Conclusion

By considering the La Niña condition, neutral IOD, enhanced MJO signal over Indian Ocean during 2nd week of the month, Multi-Model Ensemble of WMO Lead Centres, NMME Forecasts and climate data of Maldives, rainfall is likely to be above normal over northern atolls and part of central atolls, below normal over rest of the country.

Temperature is expected to be slightly above normal in all areas 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