

Climate Monitoring and Prediction for the Maldives – July 2021

Prepared by Staff at Foundation for Environment, Climate and Technology, Sri Lanka and Maldives and Columbia University

Nipuni Alahakoon, Ushan Adithya, Lareef Zubair, Zahid and Michael Bell

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PACIFIC SEAS STATE

July 21, 2021

In late-July 2021, the tropical Pacific remained in an ENSO-neutral state, although SSTs in the east-central and central Pacific have cooled to the threshold for La Niña while the atmosphere continues to maintain largely ENSO-neutral patterns. The collection of latest ENSO prediction models indicates ENSO-neutral or weak El Niño as two possible scenarios during Northern Hemisphere summer 2021. The official CPC/IRI outlook likely persist ENSO-neutral condition through the summer. (Text Courtesy IRI)

INDIAN OCEAN STATE

July 21, 2021

0.5 °C above average SST was observed around Maldives.

Highlights

Monitored:

During July, the entire Maldives islands received less rainfall from climatology. Over the 365 days, rainfall exceeded climatology by 29% in the Northern islands; 11% in the southern islands and deficit by 9% in the Central islands.

Predictions:

With ENSO-neutral conditions established; wet conditions are set to prevail across Maldives from August - October 2021. The seasonal temperature remains climatological.

Summary

CLIMATOLOGY

Monthly Climatology:

In July, the entire country usually receives up to 200 mm average rainfall and the wind direction in July is usually westerly but with low speeds wind speed. In August and September, the rainfall in southern and central islands increases to 250 mm while in northern islands it remains about 200 mm. The wind direction and speed do not change.

MONITORING

Fortnightly Rainfall Monitoring:

Date	Rainfall		
	Northern Islands	Central Islands	Southern Islands
11 th - 12 th July	-	5 mm	5 mm
13 th July	-	-	10 mm
14 th July	-	-	-
15 th July	-	-	10 mm
16 th July	-	-	40 mm
17 th - 19 th July	-	-	-
20 th - 21 st July	-	-	5 mm
22 nd July	-	10 mm	30 mm
23 rd July	10 mm	40 mm	60 mm
24 th July	-	20 mm	20 mm
25 th July	60 mm	30 mm	10 mm

Monthly and Seasonal Rainfall Monitoring: In June, entire islands received up to 5 mm above average rainfall. The cumulative rainfall during the last 365 days, shows for: Northern islands: Excess of 450 mm from an average of 1525 mm average
Central islands: Deficit of 150 mm from an average of 1700 mm average
Southern islands: Excess of 200 mm from an average of 1800 mm average

Decadal Rainfall Estimates:

1-10 July, Dekadal rainfall estimated as; Northern Islands: 100 mm rainfall
Central Islands: 100 mm rainfall
Southern Islands: 80 mm rainfall

11-20 July, Dekadal rainfall estimated as; Northern Islands: 5 mm rainfall
Central Islands: 10 mm rainfall
Southern Islands: 40 mm rainfall

PREDICTIONS

Daily Rainfall Forecast:

NOAA GFS model predicts up to 40 mm of rainfall in the northern and central islands; and up to 20 mm in southern islands on 28th July; Up to 70 mm of rainfall in the southern islands; and up to 20 mm in northern and central islands on 29th July; Up to 70 mm of rainfall in the southern islands; up to 20 mm in central islands; and up to 10 mm in northern islands on 30th July; Up to 20 mm of rainfall in the central islands; and up to 10 mm in northern and southern islands on 31st July; Up to 20 mm of rainfall in the entire islands on 1st August; Up to 40 mm of rainfall in the southern islands; and up to 20 mm in northern and central islands on 2nd August; and Up to 20 mm of rainfall in the central and southern islands; and up to 10 mm in northern islands on 3rd August.

Weekly Rainfall Forecast:

NOAA/NCEP GFS model predicts higher probability of above-normal tercile by 70% in the entire islands between 24th- 30th July.

Seasonal Rainfall and Temperature Forecast:

Above-normal temperature tercile is 50% probable in the northern islands; and 40% probable in central and southern islands from August-September-October 2021 and seasonal rainfall forecast is climatological.

MJO Index:

The MJO is predicted by NOAA CPC to be in phases 6 & 7 and it shows fairly weak in the next two weeks (28 July – 9 August 2021). MJO shall weaken the rainfall over the Maldives during this period.

Figures in Annexure

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 - Monthly Rainfall derived from Satellite Rainfall Estimate
 - Monthly and Seasonal Monitoring
- **Ocean Surface Monitoring**
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 - Seasonal Predictions from IRI¹

