

Climate Monitoring and Prediction for the Maldives – April 2020

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May 4, 2020

PACIFIC SEAS STATE

April 20, 2020

SSTs in the east-central Pacific were near the borderline of weak El Niño during mid-April. However, patterns in atmospheric variables were mainly neutral. Most model forecasts favor warm-neutral SST conditions during the rest of spring, cooling to average by summer. The official CPC/IRI outlook is consistent with these model forecasts, calling for continuation of ENSO-neutral through fall.

(Text Courtesy IRI)

INDIAN OCEAN STATE

April 22, 2020

0.5 °C above average SST was observed around Maldives.

MJO INDEX

The MJO was significant in Phase 1 from Apr 13-20; in Phase 2 from Apr 21-24; and in Phase 3 from Apr 25-30. Usually rainfall in Maldives is augmented in Phase 2.



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Highlights

Monitored: During April, the whole country received normal rainfall for the season. During last year the northern and southern Islands have an excess of 400 mm and the central Islands have an excess of 300 mm of rainfall compared to the average. The sea surface temperature around Maldives was 0.5 °C above normal.

Predictions: IMD GFS model predicts daily rainfall up to 20 mm in the southern islands and up to 10 mm in central and northern islands during 6th-7th May. From 8th-10th, 40 mm of daily rainfall is expected in the southern and central islands and up to 10 mm in northern islands. Long Range Weather prediction models simulations anticipate total rainfall up to 75 mm for the southern islands next week.

Summary

CLIMATOLOGY

Monthly Climatology: In May, average rainfall is about 200 mm in the entire country. The wind direction is westerly and the speed is higher than in April. The rainfall in northern islands usually increases up to 250 mm in June, while it decreases to 150 mm in southern islands. Wind direction in June is usually easterly but with low speeds. In July, the entire country receives up to 200 mm rainfall and the wind speed and direction does not change.

MONITORING

Weekly Rainfall Monitoring:

Date	Rainfall
17 th – 20 th April	No Rainfall.
21 st April	Up to 50 mm in the southern islands; up to 30 mm in central islands; and up to 10 mm in northern islands.
22 nd April	Up to 50 mm in the central islands; up to 30 mm in southern islands; and up to 20 mm in northern islands.
23 rd April	Up to 50 mm in the southern and central islands; and up to 10 mm in northern islands.
24 th April	Up to 100 mm in the northern islands; up to 90 mm in central islands; and up to 30 mm in southern islands.
25 th April	Up to 10 mm in the southern islands.
26 th April	No Rainfall.
27 th April	Up to 50 mm in the southern islands; and up to 20 mm in central islands.
28 th April	Up to 90 mm in the central islands; up to 50 mm in southern islands; and up to 20 mm in northern islands.
29 th April	Up to 30 mm in the northern islands.
30 th April	No Rainfall.

Monthly and Seasonal Rainfall Monitoring: In April, the whole country received normal rainfall. The southern islands received up to 200 mm of total rainfall; and central and southern islands up to 100 mm.

PREDICTIONS

Weekly Rainfall Forecast:

According to IMD GFS daily rainfall up to 20 mm of is expected in the southern islands and up to 10 mm in central and northern islands during 6th-7th May. From 8th-10th, 40 mm of daily rainfall is expected in the southern and central islands and up to 10 mm in northern islands.

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