Climate Monitoring and Prediction for the Maldives – October 2024

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PACIFIC SEAS STATE October 18, 2024

As of mid-October 2024. ENSO-neutral conditions persist in the western equatorial Pacific. The IRI ENSO prediction plume forecasts show 53% chances for ENSO-neutral conditions to continue during Oct-Dec. Borderline La Niña conditions are forecasted during Nov-Jan and Dec-Feb, 2025. ENSO-neutral conditions subsequently re-emerge as the most likely category and remain so during the first and second quarter of 2025. (Text Courtesy IRI)

INDIAN OCEAN STATE

1 - 7 October, 2024

0.5°C above average SST was observed around the Maldives.

Highlights

Monitored:

In September, the central islands received up to 12 mm of rainfall; while remaining islands received less. North-westerly winds prevailed for the northern, central and southern Maldives during the month of September.

Predictions:

La Niña is favored to emerge in September-November (60% chance) and is expected to persist through January-March 2025.

Summary

CLIMATOLOGY

Monthly Climatology:

In November, the whole country usually receives up to 200 mm rain. The wind is westerly. Usually in December, northern islands receive up to 150 mm while central and southern islands receive up to 200 mm and 250 mm rain respectively. Northern islands get north-easterly wind while southern islands get northerly wind. In January northern islands receive up to 50 mm rain while central and southern islands receive up to 100 mm and 250 mm rain respectively. The wind is northeasterly.

MONITORING

Fortnightly Rainfall Monitoring:

Date	Rainfall			
	Northern Islands	Central Islands	Southern Islands	
17 th October	-	-	TR	
18 th October	5 mm	-	-	
19 th October	5 mm	-	-	
20 th October	TR	-	-	
21 st October	TR	-	-	
22 nd October	5 mm	-	-	
23 rd October	10 mm	10 mm	-	
24 th October	10 mm	10 mm	-	
25 th October	40 mm	10 mm	-	
26 th October	80 mm	-	-	
27 th October	20 mm	-	-	
28 th October	30 mm	-	10 mm	
29 th October	TR	-	TR	
30 th October	TR	TR	-	
31st October	TR	TR	-	

TR - Trace Value

Monthly and Seasonal Rainfall Monitoring

Monthly Average: In September, the central islands received up to 12 mm of rainfall, northern and southern islands received up to 10 mm of rainfall.

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	Northern Islands	Central Islands	Southern Islands
T Max	32.4°C	33.0°C	32.0°C
T Min	23.4°C	25.0C	21.8°C

Dekadal Rainfall Estimates

11-20 October, Dekadal rainfall estimated as; Northern Islands: 60 mm rainfall

Central Islands: 80 mm rainfall Southern Islands: 20 mm rainfall

21-31 October, Dekadal rainfall estimated as; Northern Islands: 100 mm rainfall

Central Islands: 20 mm rainfall Southern Islands: 10 mm rainfall

PREDICTIONS

Daily Rainfall Forecast:

Date	Rainfall			
	Northern Islands	Central Islands	Southern Islands	
08 th November	-	10 mm	TR	
09 th November	-	40 mm	20 mm	
10 th November	-	40 mm	40 mm	
11 th November	-	40 mm	70 mm	
12 th November	TR	20 mm	20 mm	
13 th November	TR	20 mm	TR	
14 th November	TR	10 mm	40 mm	

Biweekly Rainfall Forecast:

NOAA/NCEF GFS model predicts higher probability of near-neutral tercile for the northern islands; and above-normal tercile by 40% for the central and southern islands between 2^{nd} -15th November.

Seasonal Rainfall and Temperature Forecast:

Above-normal tercile is 50% probable in the northern islands; and below-normal tercile is 45% probable in the central islands; and tercile is 60% probable in the southern islands from November-December-January 2025 and seasonal rainfall forecast is higher likelihood of below-normal range for the Maldives.

MJO Index:

The MJO is predicted by NOAA CPC to be in phases 7 and 8 respectively in the next two weeks (1 - 15 November 2024). MJO in phase 8 usually suppress the rainfall over the Maldives.

Figures in Annexure

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