

Climate Monitoring and Prediction for the Maldives – July 2025

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PACIFIC SEAS STATE

August 19, 2025

As of mid-August 2025, the equatorial Pacific remains in an ENSO-neutral state. The IRI ENSO plume forecast indicates a moderate probability (68%) of ENSO-neutral conditions for Aug-Oct 2025. These neutral conditions are expected to persist through the end of the forecast period. However, during Sep-Nov and Oct-Dec, the probabilities for ENSO-neutral decreases slightly to 49% and 50%, respectively, but remain higher than those for either La Niña or El Niño. During these two overlapping seasons (SON and QND), the probability of La Niña development increases to 39% and 44%, respectively. (Text Courtesy IRI)

INDIAN OCEAN STATE

29 Jul-4 Aug, 2025

0.5°C below average SST was observed around the northern islands and near-neutral SST was observed around the central and southern islands of Maldives.

During the last two weeks of August, the southern islands recorded the highest rainfall, reaching up to 40 mm per day, while the other islands received comparatively less. Northwesterly winds prevailed over the Maldives during July. Sea surface temperatures (SST) in the eastern Pacific Ocean are expected to be cooler within the next three months.

Highlights

Monitored:

In July, the northern islands received up to 10 mm of rainfall; while remaining islands received less. Northwesterly winds prevailed for the Maldives during the month of July.

Predictions: ENSO-neutral is most likely through the late Northern Hemisphere summer 2025 (56% chance in August-October). Thereafter, a brief period of La Niña conditions is favored in the fall and early winter 2025-26 before reverting to ENSO-neutral.

Summary

CLIMATOLOGY

Monthly Climatology:

In September, islands in the northern half of the country receive up to 150 mm rainfall while the southern half receives up to 200 mm rainfall. The same rainfall pattern continues in October and in November the entire country usually receives up to 150 mm rainfall. The wind pattern is usually westerly during these three months.

MONITORING

Fortnightly Rainfall Monitoring:

Date	Rainfall		
	Northern Islands	Central Islands	Southern Islands
15 th August	-	-	-
16 th August	-	-	5 mm
17 th August	-	TR	TR
18 th August	-	TR	10 mm
21 st August	-	-	TR
22 nd August	-	TR	-
23 rd August	TR	-	5 mm
24 th August	-	TR	10 mm
25 th August	-	-	20 mm
26 th August	TR	5 mm	5 mm
27 th August	20 mm	5 mm	40 mm
28 th August	10 mm	10 mm	TR
29 th August	20 mm	20 mm	-
30 th August	50 mm	30 mm	TR
31 st August	10 mm	10 mm	TR

TR - Trace Value

Monthly and Seasonal Rainfall Monitoring

Monthly Average: In July, the northern islands received up to 10 mm of rainfall, and the central and southern islands received up to 5 mm rainfall.

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Monthly Temperature Monitoring:

	Northern Islands	Central Islands	Southern Islands
T Max	31.8°C	33.0°C	32.0°C
T Min	23.5°C	25.1°C	22.6°C

Dekadal Rainfall Estimates

1-10 Aug, Dekadal rainfall estimated as; Northern Islands: 80 mm rainfall
Central Islands: 40 mm rainfall
Southern Islands: 10 mm rainfall

21-31 Aug, Dekadal rainfall estimated as; Northern Islands: 80 mm rainfall
Central Islands: 40 mm rainfall
Southern Islands: 80 mm rainfall

PREDICTIONS

Daily Rainfall Forecast:

Date	Rainfall		
	Northern Islands	Central Islands	Southern Islands
3rd September	TR	10 mm	40 mm
4th September	TR	10 mm	10 mm
5th September	TR	TR	-
6th September	10 mm	20 mm	TR
7th September	10 mm	TR	TR
8th September	10 mm	TR	TR
9th September	TR	10 mm	TR

Biweekly Rainfall Forecast:

NOAA/NCEP GFS model predicts higher probability of below-normal tercile by 40% in the northern islands and by 50% in the central islands; near-neutral in the southern islands between 13th - 26th September.

Seasonal Rainfall and Temperature Forecast:

Below-normal precipitation tercile is 45% probable in southern and northern islands; 60% probable in central islands of Maldives from September-October-November 2025 and seasonal rainfall forecast is higher likelihood of below-normal range.

MJO Index:

The MJO is predicted by NOAA CPC to be in phases 1,2 respectively in the next two weeks (8 – 22 September 2025). MJO in phase 1 and 2 will enhance the rainfall over the Maldives from 8th- 22th September.

Figures in Annexure

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