

Climate Monitoring and Prediction for the Maldives – November 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

November 30, 2021

PACIFIC SEAS STATE

November 24, 2021

In mid-November, SSTs

remained well below normal in the central-eastern equatorial Pacific. The evolution of

key oceanic and atmospheric variables

is consistent with La Niña conditions, and therefore, a La Niña Advisory remained in

place for Nov 2021. The official CPC/IRI outlook also anticipates a

continuation of the La Niña event with high probability during Nov-Jan, persisting until

Feb-Apr, with a return to ENSO-neutral conditions with high

probabilities for rest of the forecast period

(Text Courtesy IRI)

INDIAN OCEAN STATE

November 24, 2021

SST was observed near neutral around Maldives.

Highlights

Monitored:

During November, the entire Maldives received above normal rainfall. Over the last 365 days, rainfall exceeded climatology by 18% in the Northern islands; and was in deficit by 26% in the Central islands.

Predictions:

La Niña tendency is predicted in the months ahead, and this results in a dry tendency in the entire Maldives for December to February 2022.

Summary

CLIMATOLOGY

Monthly Climatology:

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. Usually, 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. In February, northern islands receive rainfall less than 50 mm while central islands receive up to 50 mm rain and southern islands receive up to 100 mm rain. The wind is northeasterly.

MONITORING

Fortnightly Rainfall Monitoring:

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

Monthly and Seasonal Rainfall Monitoring: In November, the entire Maldives received up to 10 mm above average rainfall. The cumulative rainfall during the last 365 days, shows for: Northern islands: Excess of 275 mm from an average of 1500 mm average
Central islands: Deficit of 450 mm from an average of 1725 mm average
Southern islands: Equal to the average; 1850 mm average

FECT Foundation for Environment
Climate and Technology

FECT, Maldives, Sri Lanka & New York

Phone: (+960) 7788010(MV), (+94) 81-2376746 (SL)

Web: www.climate.mv

Blog: fectmv.blogspot.com

E-mail: fectmv@gmail.com

FB: www.fb.com/fectmv

TW: @fectmv

Deckadal Rainfall Estimates:

11-20 November, Dekadal rainfall estimated as; Northern Islands: 60 mm rainfall
Central Islands: 20 mm rainfall
Southern Islands: 60 mm rainfall

21-30 November, Dekadal rainfall estimated as; Northern Islands: 100 mm rainfall
Central Islands: 60 mm rainfall
Southern Islands: 80 mm rainfall

PREDICTIONS

Daily Rainfall Forecast:

NOAA GFS model predicts up to 70 mm of rainfall in the northern and central islands; and up to 20 mm in southern islands on 11th Dec; Up to 70 mm of rainfall in the central islands; up to 40 mm of rainfall in the southern islands and up to 20 mm in northern islands on 12th Dec; Up to 70 mm of rainfall in the central islands; and up to 40 mm in northern and southern islands on 13th Dec; Up to 40 mm of rainfall in the northern and central islands; and up to 20 mm in southern islands on 14th Dec; Up to 130 mm of rainfall in the northern islands; up to 20 mm of rainfall in the central islands and up to 10 mm in southern islands on 15th Dec; Up to 70 mm of rainfall in the northern and central islands; and up to 10 mm in southern islands on 16th Dec; and up to 20 mm of rainfall in the central islands and up to 10 mm in northern islands on 17th Dec.

Weekly Rainfall Forecast:

NOAA/NCEF GFS model predicts higher probability of above-normal tercile by 70% in the northern and central islands; and by 50 % in the Southern islands between 11th – 17th December.

Seasonal Rainfall and Temperature Forecast:

Above-normal precipitation tercile is 50% probable in the central and southern islands; And near normal precipitation tercile is probable in the northern islands from December-January-February 2021 and seasonal rainfall forecast is climatological.

MJO Index:

The MJO is predicted by NOAA CPC to be in phases 6 & 7 and it is strong in the next two weeks (13th- 27th December). MJO in phase 6 usually suppresses rainfall over the Maldives.

Figures in Annexure

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 - Seasonal Predictions from IRI¹

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