



Government of India
Earth System Science Organization
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 30th June, 2021

Time of Issue: 1530 hrs IST

Sub: (a) Status of monsoon as on 30th June 2021 and forecast upto 7th July
(b) Short spell of Heat wave conditions over some parts of northwest India and adjoining parts of central India

(a) Status of monsoon as on 30th June 2021 and forecast upto 7th July

- i. **i)** Southwest monsoon 2021 so far covered most parts of the country except parts of Rajasthan, Delhi, Haryana and Punjab. The northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar (refer **Fig 1**). Since, 19th June, there has not been any progress of monsoon. It was due to impact mid-latitude westerly winds and unfavourable Madden Julian Oscillation (MJO) and absence of formation of low pressure system over North Bay of Bengal.

The MJO currently lies in Phase 1 (equatorial eastern Africa) with amplitude more than 1. It is likely to propagate eastwards into Phase 2 (Western Equatorial Indian Ocean and adjoining Arabian Sea) with amplitude close to 1 by 2 July and further into Phase 3 (Eastern Equatorial Indian Ocean Bay of Bengal) from 7th July. Hence, the phase of MJO is likely to gradually favour enhancement of convection and cross equatorial flow over the North Indian Ocean (NIO) during Week 2 around 7th July 2021. Model forecasts show that easterly winds from Bay of Bengal in lower tropospheric levels are not likely to be established over north-western plains of India before 7th July. Accordingly, further advance of southwest monsoon into remaining parts of Rajasthan, Delhi, Haryana and Punjab is not likely till 7th July.

ii) Status of rainfall of Southwest monsoon 2021 till 30th June 2021: For the country as a whole, cumulative rainfall during this year's Southwest Monsoon season's Rainfall till 30th June, 2021 has been above normal by **about 10% above Long Period Average (LPA) with actual rainfall during the same period is 18.29 cm against its normal of 16.69 cm.** Details of the rainfall distribution over the four broad geographical regions of India are given in **Table 1.**

The Meteorological sub-division-wise rainfall for the season till 30th June 2021 is given in **Fig 2**

Table 1-Rainfall (mm) status as on 30 June 2021 over the country

Cumulative rainfall (mm)	Actual	Normal	% Departure
EAST & NORTH-EAST INDIA	357.3	347.1	3%
NORTH-WEST INDIA	85.7	75.3	14%
CENTRAL INDIA	198.8	169.2	17%
SOUTH PENINSULA	166.2	160.2	4%
country as a whole	182.9	166.9	10%

iii) On-going Weak monsoon spell over Central, Peninsular and northwest India and Heavy rainfall spell over northeast India, Bihar and east Uttar Pradesh

➤ **Weather Systems:**

- A trough in the lower level runs from North East Uttar Pradesh to northeast Assam across Bihar and Sub-Himalayan West Bengal.
- A Western Disturbance lies as a trough in mid & upper westerlies over Afghanistan.
- A cyclonic circulation lies over North Pakistan and neighbourhood in lower levels.
- A cyclonic circulation lies over North East Arabian Sea adjoining Saurashtra & Kutch at middle tropospheric levels
- A trough runs from Vidarbha to South Tamil Nadu across Telangana in the lower levels.

➤ **Forecasts based on model consensus shows that the formation of low pressure system over north Bay of Bengal is unlikely till 7th July 2021**

➤ **Forecast and warning of heavy rainfall**

◆ Under the influence of strong moist southwesterly winds at lower tropospheric levels from Bay of Bengal to northeast & adjoining east India; fairly widespread to widespread rainfall with isolated heavy rainfall very likely over Bihar, West Bengal & Sikkim and Northeastern states during next 6-7 days. **Isolated heavy to very heavy rainfall very likely over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during next 3 days. Isolated extremely falls also likely over Assam & Meghalaya on 30th June & 01st July; over Bihar during 30th June-02nd July and over Sub-Himalayan West Bengal & Sikkim on 30th June, 02nd & 03rd July, 2021.**

◆ Due to strengthening of moist easterly winds along the northern Uttar Pradesh and Uttarakhand from tomorrow, the 1 July, 2021, enhanced rainfall activity **with isolated heavy falls very likely over East Uttar Pradesh during next 5 days(30 June-4 July 2021): over Uttarakhand from 01st to 04th July and over West Uttar Pradesh on 02 July, 2021. Isolated very heavy rainfall also likely over Uttarakhand on 02nd July, 2021.**

◆ Strong surface winds (speed reaching 20-30 kmph occasionally) over Haryana and West Uttar Pradesh on 30th June and 01st July, 2021.

◆ Moderate to severe thunderstorm accompanied by frequent cloud to ground lightning very likely over Bihar and Jharkhand during next 24 hours. This may cause injuries leading to casualties to people and animals staying outdoors.

[For details of forecast and warning refer:](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)

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(b) Short spell of Heat wave conditions over some parts of northwest India and adjoining parts of central India

Due to likely dry westerly/southwesterly winds from Pakistan to northwest India at lower levels, Heat wave conditions are likely over some parts of Punjab, Haryana, Chandigarh & Delhi, Rajasthan, West Uttar Pradesh during next 2 days and over West Madhya Pradesh during next 24 hours.

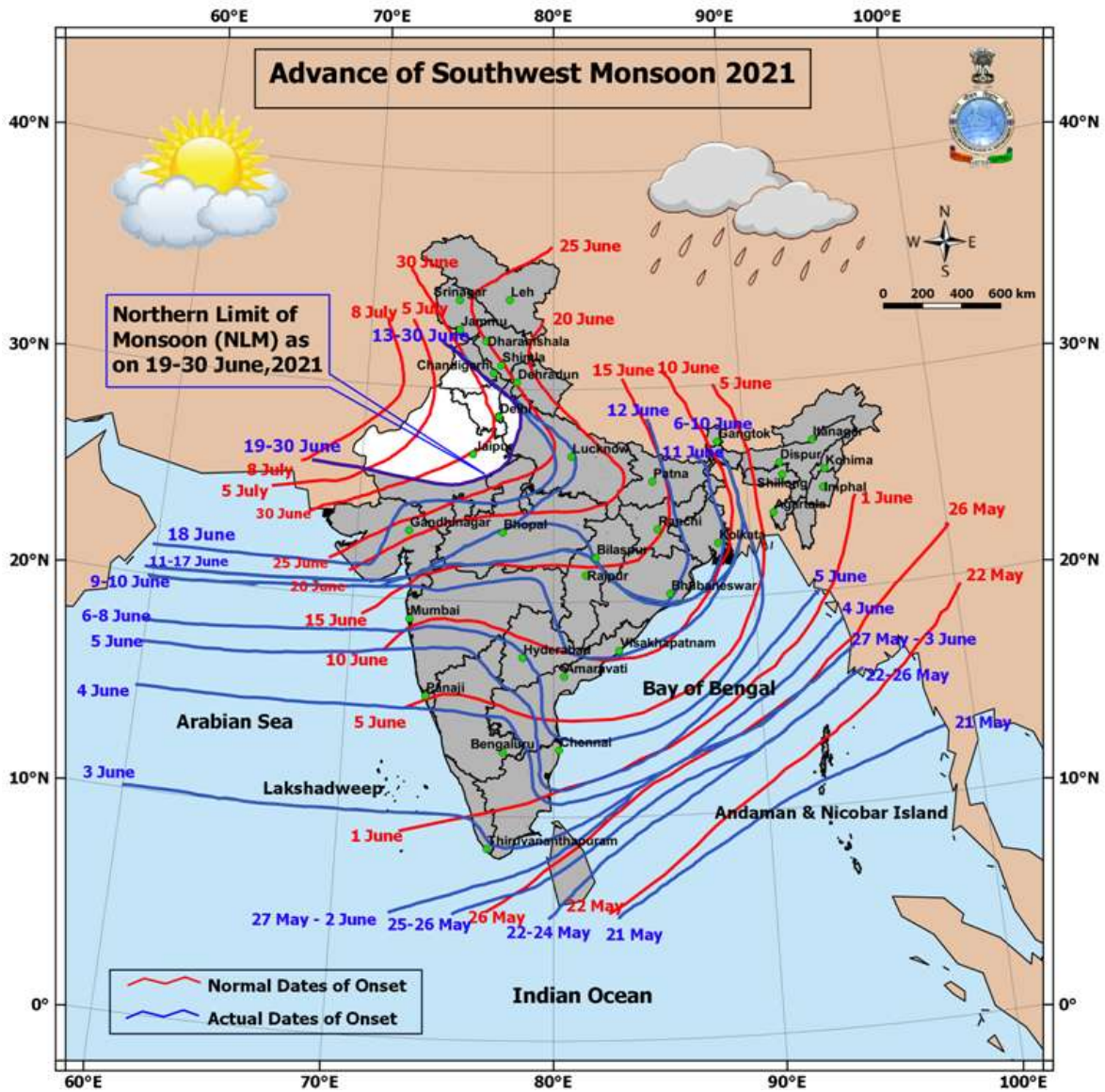
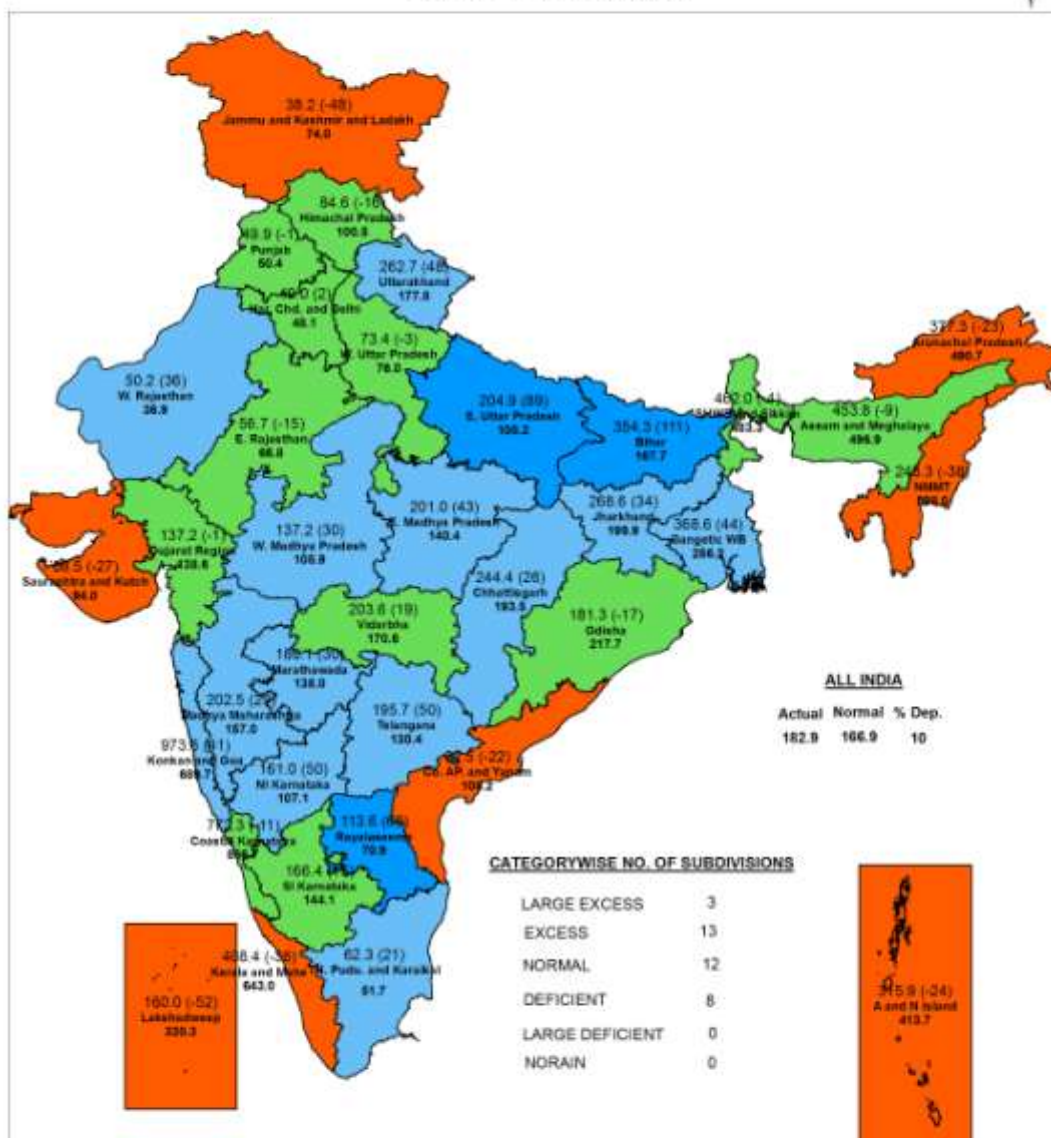


Figure 1 – Northern Limit of Monsoon as on 30th June, 2021



SUBDIVISION RAINFALL MAP

Period : 01-06-2021 To 30-06-2021



Legend

Large Excess [90% or more] Excess [20% to 89%] Normal [-19% to 19%] Deficient [-20% to -89%] Large Deficient [-90% to -99%] No Rain [-100%] No Data

NOTES :

- a) Rainfall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.

Figure 2 - Meteorological sub-division-wise rainfall for the season till 30th June, 2021