



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

Press: Dated: 11 Aug, 2022

**Subject: Current Weather Status and Extended range Forecast for next two weeks
(11-24 August 2022)**

1. Salient Observed Features for week ending on 11 Aug 2022

- Last week's heavy to very heavy rainfall with isolated extremely heavy rainfall spell over Southern parts of Peninsula which started from 2 Aug due to formation and persistence of east-west shear zone over the same region, had significantly reduced from 6th Aug as shear zone was disorganized. However, a fresh spell of heavy rainfall was observed over central India including Odisha and Chhattisgarh and Maharashtra from 6th Aug due to formation of a fresh Low Pressure Area over Northwest Bay of Bengal off Odisha-West Bengal coasts in the evening of 6th August 2022. This system had moved over to central parts of Madhya Pradesh across Odisha and Chhattisgarh during 6-11 Aug. It was concentrated into a Depression for shorter period of 1-day during morning of 9th to morning of 10th Aug over coastal Odisha & neighborhood which then by moving further west-northwestwards, weakened into a Well Marked Low Pressure over east Madhya Pradesh on 10th August 2022. Monsoon trough was seen south of the normal position through Bikaner, Kota, Raisen, Raipur, Digha and thence southeastwards to Eastcentral Bay of Bengal on 5th Aug which then further shifted south during 9-11 Aug, due to formation of another low pressure system over Saurashtra & adjoining Northeast Arabian Sea on 10th. On 10th Aug, Monsoon trough passed through the centre of Low Pressure Area over Saurashtra & adjoining Northeast Arabian Sea, Ahmedabad, centre of Low Pressure Area over central parts of Madhya Pradesh, Pendra Road, Jharsuguda, Balasore and thence southeastwards to Eastcentral Bay of Bengal.

➤ **Analysis of Weekly overall Rainfall distribution during the current week ending on 10 Aug 2022 and Monsoon Season’s Rainfall Scenario (01 June-10 Aug, 2022) shows rainfall status have further improved:** It shows for the country as a whole, the weekly cumulative All India Rainfall departure till week ending on 10 Aug 2022, from its long period average (LPA) was +19 %, with **over east and northeast India as -33%** while all India Seasonal cumulative rainfall % departure during this year’s **monsoon Season Rainfall during 01 June till 10 Aug 2022** is +8%. Details of the rainfall distribution over the four broad geographical regions of India are given in **Table 1** and Meteorological sub-division-wise rainfall both for week and season are given in Annex I and II respectively.

Table 1: Rainfall status (Week and season)

Region	WEEK			SEASON		
	04.08.2022 TO 10.08.2022			01.06.2022 TO 10.08.2022		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	46.3	68.7	-33%	718.5	854	-16%
NORTH-WEST INDIA	41.4	49.6	-17%	356.8	358.5	0%
CENTRAL INDIA	116.3	82	+42%	700.8	606.7	+16%
SOUTH PENINSULA	80.4	46.7	+72%	593.2	432.4	+37%
Country as a whole	75.1	63	+19%	576.7	535.6	+8%

2. Large scale features

➤ Currently, the sea surface temperatures (SSTs) as well as the atmospheric conditions over Equatorial Pacific Ocean indicate La Niña conditions. The latest forecasts from MMCFS and other global models indicate that La Niña conditions are likely to continue during remaining part of the monsoon season. In addition to ENSO conditions over Pacific, other factors such as the Indian Ocean Sea Surface Temperatures (SSTs) also have some influence on Indian monsoon. Currently, the SST conditions over Equatorial Indian Ocean are very close to the threshold level

for negative Indian Ocean Dipole (IOD) conditions. The latest forecasts from MMCFS and other global models indicate negative IOD conditions are likely to develop during remaining part of the monsoon season.

- The Madden Julian Oscillation Index (MJO) currently lies in phase 8 with amplitude less than 1. It would move to phase 2 till 15 Aug and then retreat back to Phase 1 by 17 Aug with gradually increasing amplitude. It will likely remain in phase 1 and 2 during week 2.

3. Forecast for next two week

Forecast for next two week

Weather systems & associated Precipitation during Week 1 (11 to 17 August, 2022) and Week 2 (18 to 24 August, 2022)

Forecast for week 1 (11 to 17 August, 2022):

- A Well Marked Low Pressure Area lies over Saurashtra & adjoining Northeast Arabian Sea. It is likely to move west-northwestwards away from the Indian coast and intensify into a depression during next 48 hours over Northeast Arabian Sea & neighbourhood.
- **The monsoon trough is active and lies south of its normal position. Monsoon trough is likely to be active and oscillate around its normal position during most days of the week.**
- The east-west shear zone now runs roughly along 23°N over Central India in middle tropospheric levels. It is likely to persist during next 2 days.
- The off-shore trough runs from centre of Well Marked Low Pressure Area over Saurashtra & adjoining Northeast Arabian Sea to Kerala coast at mean sea level.
- A cyclonic circulation lies over Western parts of Gangetic West Bengal & neighbourhood in lower & middle tropospheric level.
- **A Low Pressure Area is likely to form over North Bay of Bengal around 13th August, 2022. It is likely to become more marked during subsequent 24 hours and move west-northwestwards thereafter.**
- Under the influence of above systems:
 - Fairly widespread/Widespread rainfall with **isolated heavy falls** and thunderstorm/lightning very likely over West Madhya Pradesh on 12th & 14th; East Madhya Pradesh on 11th & 12th; Chhattisgarh on 11th & 13th & 15th; Vidharbha and

Saurashtra & Kutch on 11th; Gujarat State on 12th, 13th, 15th & 16th; Konkan & Goa and Madhya Maharashtra during 12th - 15th August, 2022.

✓ **Isolated very heavy rainfall likely over Konkan & Goa, Ghat areas of Madhya Maharashtra on 11th; West Madhya Pradesh on 11th & 15th; East Madhya Pradesh and Vidharbha on 14th & 15th August, 2022.**

○ Fairly widespread/widespread rainfall with **isolated heavy falls** and thunderstorm/lightning very likely over Gangetic West Bengal on 14th; Jharkhand on 11th, 13th & 14th; Odisha on 11th, 12th, 16th & 17th; and over northeastern states during 2nd half of the week.

✓ **Isolated heavy to very heavy rainfall also likely over Odisha on 13th, 14th and Gangetic West Bengal on 11th August, 2022.**

○ Scattered/Fairly widespread rainfall with **isolated heavy falls** and thunderstorm/lightning very likely over ghat areas of Tamil Nadu on 11th; Karnataka on 11th & 12th and Coastal Andhra Pradesh & Yanam on 13th & 14th August, 2022.

✓ **Isolated very heavy rainfall likely over ghat areas of coastal and south interior Karnataka on 11th August, 2022.**

○ Scattered/Fairly widespread rainfall with **isolated heavy falls** and thunderstorm/lightning very likely over East Rajasthan during 11th-15th; West Rajasthan on 12th & 13th; Himachal Pradesh and Uttarakhand during 11th -15th; Punjab and Haryana on 11th; and Jammu & Kashmir on 11th, 14th & 15th August, 2022.

✓ **Isolated very heavy rainfall also likely over Jammu & Kashmir, Himachal Pradesh, and Uttarakhand on 11th and East Rajasthan on 11th & 15th August, 2022.**

○ Isolated to scattered rainfall with thunderstorm likely to occur over rest parts of the country during the week.

○ Sub-dued rainfall activities likely to continue over Uttar east Pradesh and Bihar till 13th Aug with increase of rainfall from 14th Aug. Heavy rainfall spell likely at isolated places over these areas from 17th Aug

Rainfall for week 2 (18 to 24 August, 2022):

○ **The monsoon trough is very likely to north of its normal position during 1st half of the week and shift gradually southwards thereafter.**

○ Fairly widespread/ widespread rainfall with **isolated heavy falls** likely over northwest,

central & east India during most days of the week.

- Rainfall activity is likely to be normal to above normal over northwest, central & east India. It is likely to be near normal over rest parts of the country outside Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh, Karnataka and Kerala, where it is likely to be below normal.

4. Cyclogenesis forecast for North Indian Ocean during next 2 weeks

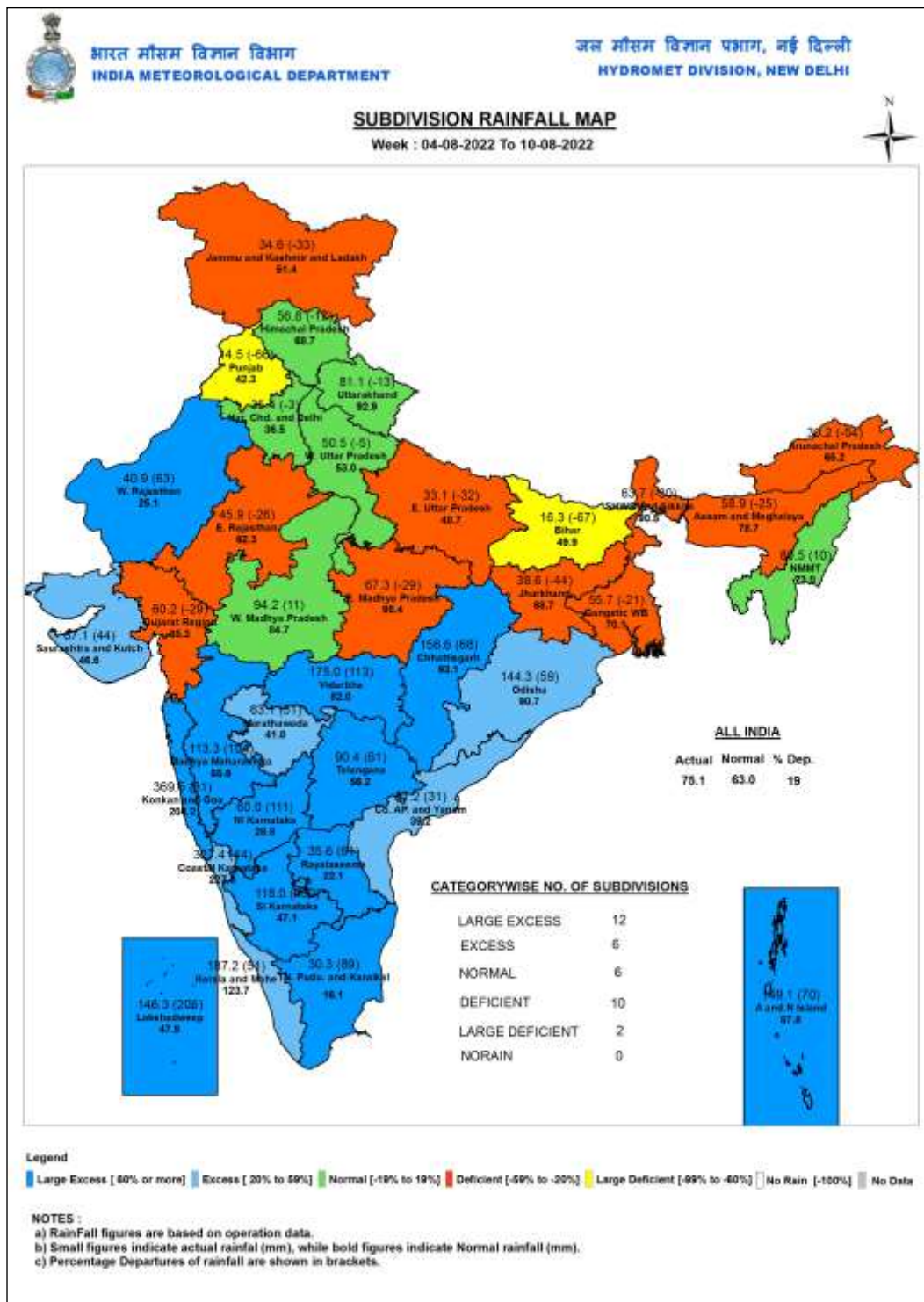
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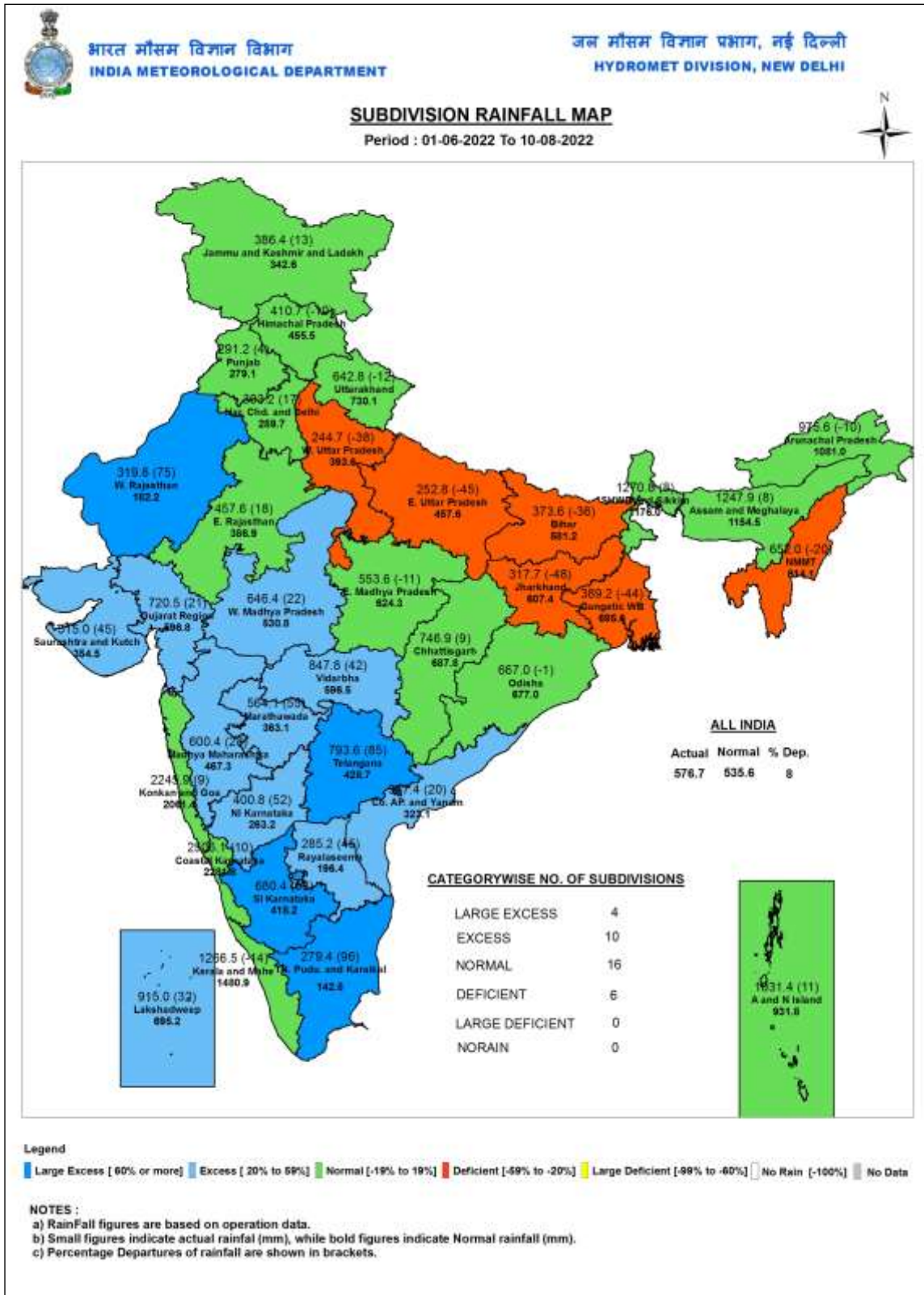
https://rsmcnewdelhi.imd.gov.in/uploads/archive/24/24_9eaf22_Extended%20Range%20Outlook_11082022.pdf

Legends: Heavy Rain: 64.5 to 115.5 mm Very Heavy Rain: 115.6 to 204.4 mm, Extremely Heavy Rain > 204.4 mm

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

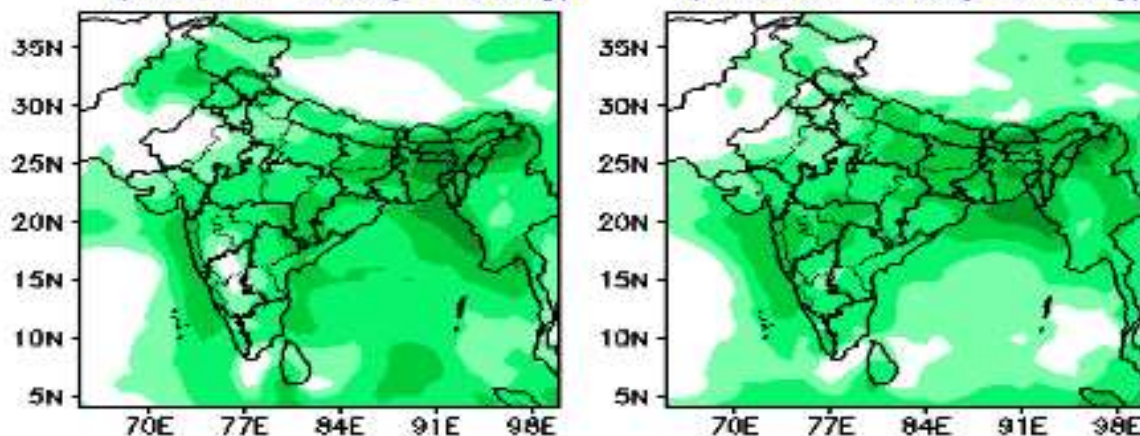




Forecast Rainfall (mm/day)

(Week1: 12Aug-18Aug)

(Week2: 19Aug-25Aug)



Forecast Rainfall Anomaly (mm/day)

(Week1: 12Aug-18Aug)

(Week2: 19Aug-25Aug)

