



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

**Dated: 25 July, 2019**

**Current Weather Status and Outlook for next two weeks (25 July to 07 August, 2019)**

**Significant Features**

- **Advance of southwest monsoon:** The Southwest Monsoon has further advanced into the remaining parts of West Rajasthan and thus has covered the entire country on 19<sup>th</sup> July 2019 (**Annexure I**).
- **Extremely heavy rainfall** ( $\geq 20$  cm) occurred at isolated places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim on three days each; over Konkan & Goa on two days and over Bihar, Coastal Karnataka and Kerala on one day each during past week (18 to 24 July, 2019). **Heavy to very heavy rainfall** occurred at isolated places over Coastal Karnataka, South Interior Karnataka and Kerala on four days each; over Arunachal Pradesh and Konkan & Goa on two days each; over Uttarakhand, East Uttar Pradesh, East Rajasthan, Madhya Maharashtra, Marathwada, Telangana and Lakshadweep on one day each during past week.
- **Two low pressure areas are likely to form, the 1<sup>st</sup> over coastal West Bengal & neighbourhood around 26<sup>th</sup> and 2<sup>nd</sup> over northwest Bay of Bengal around 31<sup>st</sup>.**
- **Rainfall activity is likely to increase over most parts of the country with above normal rainfall during next two weeks.**

**Weekly Rainfall Scenario (18 to 24 July, 2019)**

During the week, rainfall was below Long Period Average (LPA) by 35% over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	43.3	66.3	-35%
Northwest India	21.0	50.5	-58%
Central India	36.3	75.3	-52%
South Peninsula	62.0	51.7	20%
East & northeast India	78.3	95.7	-18%

The Meteorological sub-division-wise rainfall for the week is given in **Annexure II**.

### Seasonal Rainfall Scenario (01 June to 24 July, 2019)

For the country as a whole, cumulative rainfall during this year's southwest monsoon season upto 24<sup>th</sup> July, 2019 is below LPA by 19%. Details of the rainfall distribution over the four broad geographical regions of India are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	313.1	384.7	-19%
Northwest India	184.7	233.5	-21%
Central India	322.6	413.6	-22%
South Peninsula	256.8	326.7	-21%
East & northeast India	609.9	686.7	-11%

Cumulative seasonal rainfall is given in **Annexure III**.

### Chief synoptic conditions as on 25 July, 2019

- The monsoon trough at mean sea level is active and near its normal position.
- A cyclonic circulation lies over northern parts of West Bengal & neighbourhood and extends upto mid-tropospheric levels. Under its influence **a low pressure area** is very likely to form over coastal areas of West Bengal & neighbourhood by tomorrow.
- A cyclonic circulation lies over Northeast Uttar Pradesh & neighborhood and extends upto mid-tropospheric levels.
- A Western Disturbance as a cyclonic circulation lies over western parts of Afghanistan & neighbourhood in mid-tropospheric levels.

### Large scale features as on 25 July, 2019

- Currently, weak El Niño conditions are prevailing over equatorial Pacific Ocean and latest Monsoon Mission Coupled Forecast System (MMCFS) forecast indicates that transition of El Niño conditions to El Niño Southern Oscillation (ENSO) neutral conditions is likely during end of the monsoon season.
- At present, positive Indian Ocean Dipole (IOD) conditions are observed over Indian Ocean and the latest MMCFS forecast indicates these conditions are likely turn into neutral IOD conditions during remaining period of the monsoon season.
- The Madden–Julian Oscillation (MJO) at present lies over Indian Ocean (Phase-3) with weak amplitude (<1). It is very likely to be in same phase with amplitude nearly one during next one week.

### Forecast for next two week

#### Weather systems & associated Precipitation during Week 1(25 to 31 July, 2019) and Week 2 (01 to 07 August, 2019)

##### Rainfall for week 1: (25 to 31 July, 2019)

- **Due to active monsoon trough at mean sea level is active and its likely southwards shift**, the rainfall activity has increased over central India, Northern Plains and Western Himalayan region since yesterday. Fairly widespread to widespread rainfall with isolated heavy to very heavy and **extremely heavy falls** are likely over south Haryana and north Rajasthan today. Fairly widespread to widespread rainfall with isolated **heavy to very heavy falls** are also likely over Uttar Pradesh, Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Punjab during 1<sup>st</sup> half of the week 1 and decrease thereafter. However, over Madhya Pradesh and Gujarat, it is likely to continue throughout week 1. **Isolated extremely heavy rainfall** is also very likely to occur over Gujarat on 28<sup>th</sup> & 29<sup>th</sup> and over East Rajasthan on 28<sup>th</sup> July, 2019.
- **Due to cyclonic circulation lies over northern parts of West Bengal & neighbourhood and likely formation of a low pressure area**, fairly widespread to widespread rainfall with **heavy to very heavy falls** at isolated places are very likely over Gangetic West Bengal, Odisha and Chhattisgarh during week 1.
- Widespread rainfall with isolated heavy falls is likely along west coast during the week 1.
- Light/moderate scattered to fairly widespread rainfall activity likely to occur over rest parts of the country during most days of week 1 (**Annexure IV**).
- **Cumulatively, above normal rainfall likely over most parts of the country outside Jammu & Kashmir, Himachal Pradesh, Andaman & Nicobar Islands, Kerala, South Tamilnadu and Lakshadweep where, it is very likely to be below normal over during week 1 (Annexure V).**

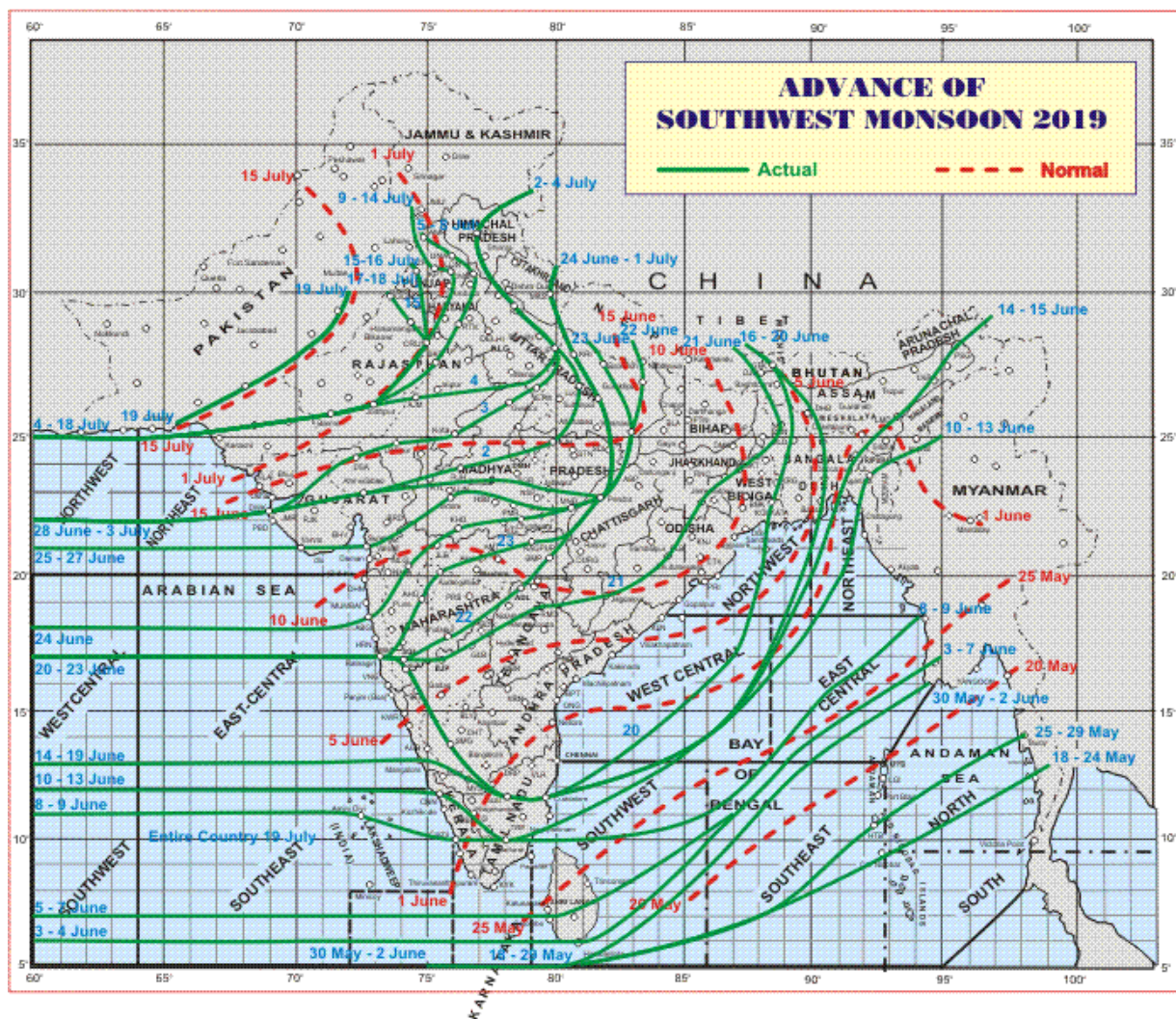
##### Rainfall for week 2: (01 to 07 August, 2019)

- **During week 2, rainfall activity likely to increase further over central parts of the country, cumulatively, above normal rainfall likely over most parts of the country outside Jammu & Kashmir, Andaman & Nicobar Islands, Kerala, South Interior Karnataka, Tamilnadu and Lakshadweep where, it is very likely to be below normal over during week 2 (Annexure V).**

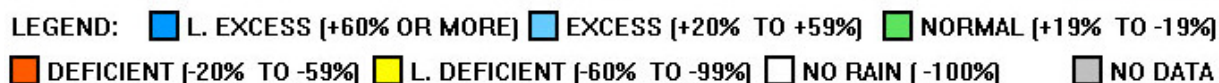
##### Cyclogenesis:

- There is no probability of cyclogenesis during next two weeks over the north Indian Ocean.

**Next weekly update will be issued on next Thursday i.e. 01 August, 2019**

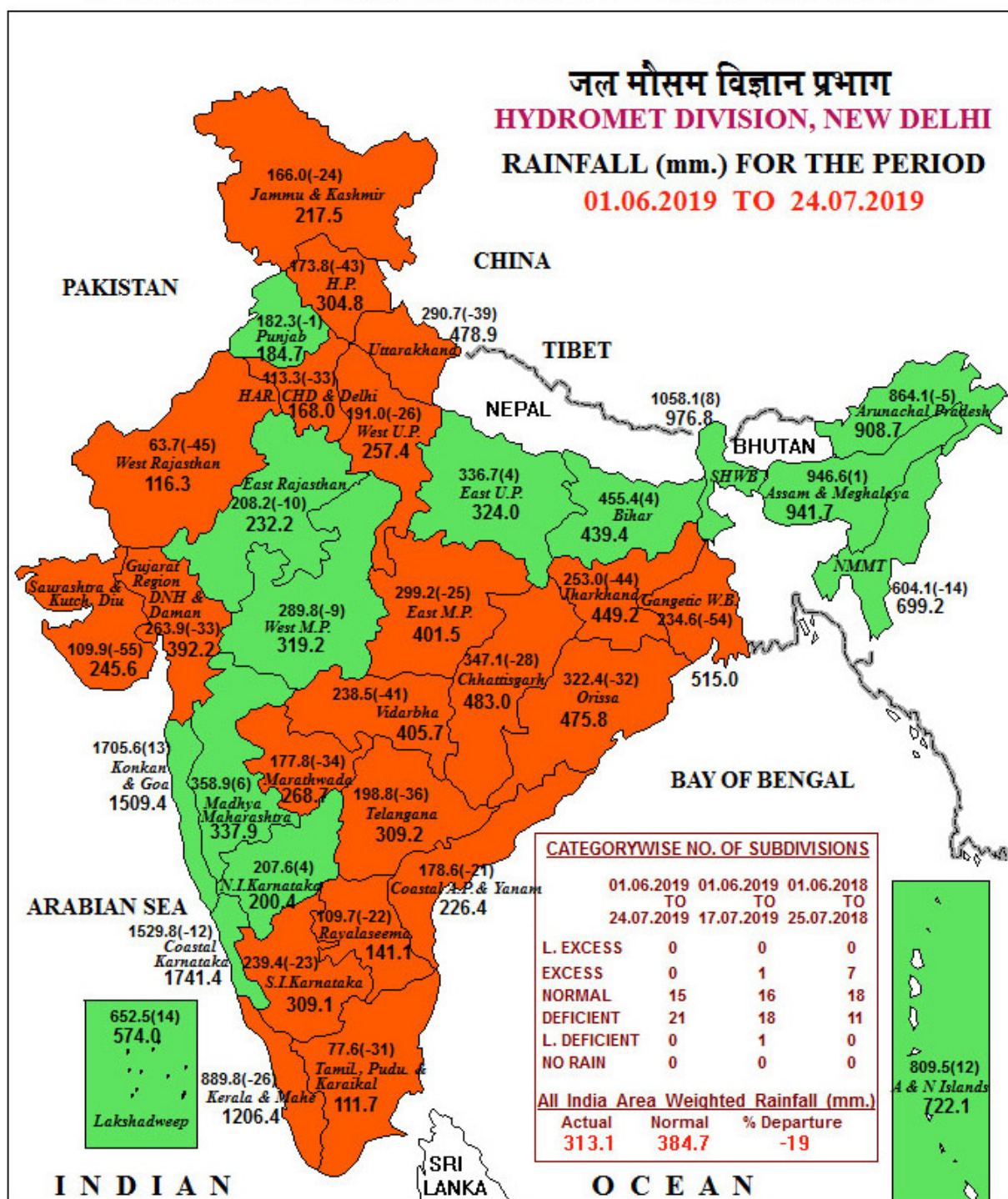






Percentage Departures of Rainfall are shown in Brackets.

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## Annexure IV

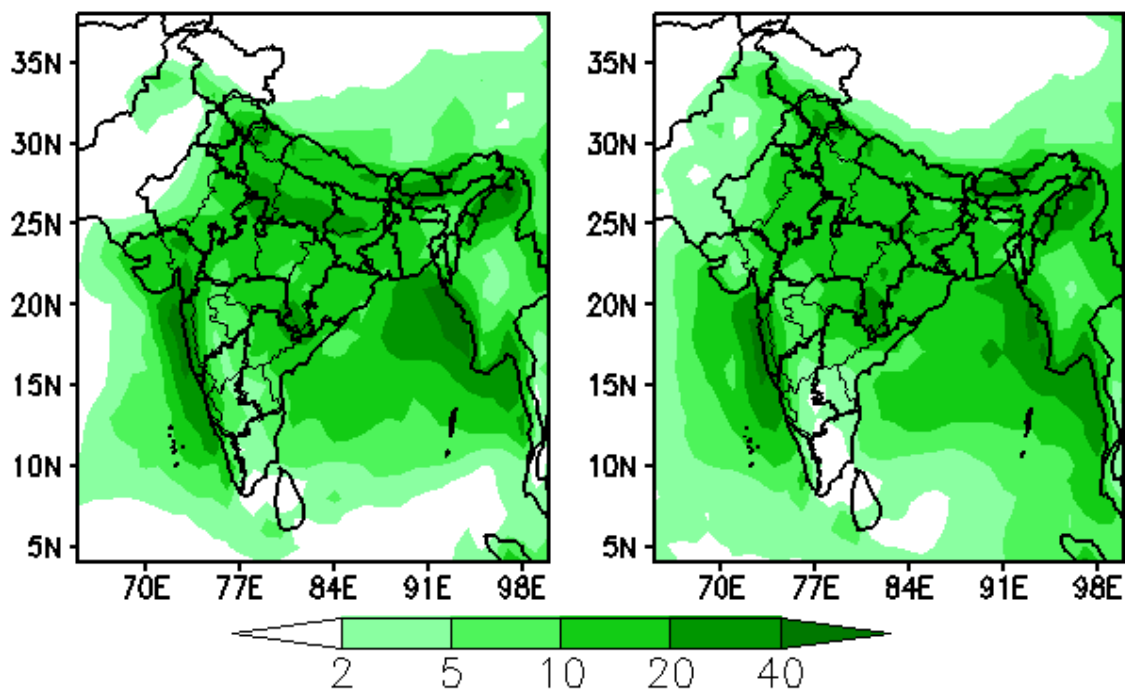
## METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST &amp; Wx. WARNINGS-2019

Sr. No	MET.SUB-DIVISIONS	25 JUL	26 JUL	27 JUL	28 JUL	29 JUL	30 JUL	31 JUL
1	ANDAMAN & NICO.ISLANDS	FWS	FWS	FWS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	WS*	FWS	FWS	WS*	WS*	WS*	FWS
3	ASSAM & MEGHALAYA	FWS*	FWS*	FWS	WS*	WS**	WS*	FWS
4	NAGA.MANI.MIZO.& TRIPURA	FWS*	FWS	FWS	WS*	WS*	WS*	FWS
5	SUB-HIM.W. BENG. & SIKKIM	WS <sup>TS*</sup>	FWS	FWS	FWS	FWS	WS*	FWS
6	GANGETIC WEST BENGAL	WS <sup>TS**</sup>	WS**	WS*	FWS	FWS	FWS	WS*
7	ODISHA	WS <sup>TS**</sup>	WS**	WS**	FWS	FWS	WS**	WS**
8	JHARKHAND	WS <sup>TS*</sup>	WS*	WS*	FWS	SCT	FWS	WS*
9	BIHAR	WS <sup>TS*</sup>	FWS	FWS	SCT	SCT	SCT	SCT
10	EAST UTTAR PRADESH	WS**	WS*	FWS	SCT	SCT	FWS*	WS*
11	WEST UTTAR PRADESH	WS**	WS*	FWS	SCT	SCT	FWS	WS*
12	UTTARAKHAND	WS**	WS**	FWS	FWS	FWS	WS*	WS**
13	HARYANA CHD. & DELHI	WS***	WS**	FWS	SCT	SCT	FWS*	WS*
14	PUNJAB	WS**	WS*	FWS	SCT	SCT	FWS*	WS*
15	HIMACHAL PRADESH	WS**	WS*	FWS	SCT	SCT	FWS	WS**
16	JAMMU & KASHMIR	WS*	WS*	FWS	SCT	SCT	SCT	FWS*
17	WEST RAJASTHAN	SCT**	SCT**	FWS**	FWS**	SCT	SCT	FWS
18	EAST RAJASTHAN	FWS***	WS***	WS**	WS***	FWS	FWS*	WS*
19	WEST MADHYA PRADESH	FWS**	WS**	WS**	WS*	FWS	FWS	WS**
20	EAST MADHYA PRADESH	WS**	WS**	WS**	WS*	FWS*	WS*	WS**
21	GUJARAT REGION D.D. & N.H.	SCT*	SCT*	FWS*	WS***	WS***	FWS	FWS*
22	SAURASTRA KUTCH & DIU	SCT	SCT	SCT	FWS**	WS***	FWS	FWS
23	KONKAN & GOA	WS**	WS***	WS**	WS***	WS**	WS*	WS**
24	MADHYA MAHARASHTRA	FWS**	FWS**	FWS*	FWS**	FWS**	FWS*	FWS*
25	MARATHAWADA	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
26	VIDARBHA	FWS	FWS	WS*	FWS*	SCT	SCT	SCT
27	CHHATTISGARH	WS*	WS*	WS**	FWS**	FWS*	WS**	WS**
28	COASTAL A. PR. & YANAM	FWS*	FWS*	SCT	SCT	ISOL	SCT*	FWS*
29	TELANGANA	SCT	FWS	FWS	SCT	SCT	SCT	FWS*
30	RAYALASEEMA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMIL. PUDU. & KARAIKAL	SCT*	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS*	WS*	WS*	WS*	WS*	WS	WS
33	NORTH INT.KARNATAKA	SCT	SCT	SCT	SCT	SCT	SCT	SCT
34	SOUTH INT.KARNATAKA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
35	KERALA & MAHE	FWS	FWS	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	WS	FWS	SCT	SCT	ISOL	ISOL	ISOL
LEGENDS:								
WS	WIDE SPREAD / MOST PLACES (76-100%)		FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)				
SCT	SCATTERED / FEW PLACES (26% to 50%)		ISOL	ISOLATED (up to 25%)		D/DRY	NIL RAINFALL	
* Heavy Rainfall (64.5-115.5 mm)		** Heavy to Very Heavy Rainfall (115.6-204.4 mm)			*** Extremely Heavy Rainfall (204.5 mm or more)			
• FOG	* SNOWFALL	# HAILSTORM		! HEAT WAVE (+4.5 °C to +6.4 °C)		! SEVERE HEAT WAVE (> +6.4)		
\$ THUNDERSTORM WITH SQUALL/GUSTY WIND		DS/TS DUST/THUNDERSTORM		! COLD WAVE (-4.5 °C to -6.4 °C)		! SEVERE COLD WAVE (< -6.4)		

**Forecast rainfall (mm per day)****Forecast Rainfall (mm/day)**

(Week1: 26Jul–01Aug)

(Week2: 02Aug–08Aug)

**Forecast rainfall anomaly (mm per day)****Forecast Rainfall Anomaly (mm/day)**

(Week1: 26Jul–01Aug)

(Week2: 02Aug–08Aug)

