



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

Dated: 27 July, 2017

Current Weather Status and Outlook for next two weeks

Highlights of the past week

Monsoon Systems

- A low pressure area formed over Gangetic West Bengal & adjoining Jharkhand on 23rd night, it became well marked low pressure area on 24th morning and further intensified into a depression over northwest Jharkhand & neighbourhood at 0830 hours IST of 26th July, 2017 near Latitude 24.0°N and Longitude 84.0°E, close to Daltonganj (Jharkhand). Thereafter, the system moved west-northwest and weakened into a well marked low pressure area over northeast Madhya Pradesh & neighbourhood at 0830 hours IST of today, the 27th July, 2017.
- A Low pressure area also formed over Gujarat region & neighbourhood on 21st, it merged with another low over northwest Madhya Pradesh on 22nd. It laid over Rajasthan till 24th and become less marked thereafter.

Extremely Heavy Rainfall

- Under the influence of above systems, Gujarat region experienced extremely heavy rainfall (≥ 20 cm in 24 hours) on many days; East Rajasthan & Gangetic West Bengal on few days and West Rajasthan, Saurashtra & Kutch, Jharkhand & Odisha one or two days of the week.

Weekly Rainfall Scenario (20 to 26 July, 2017)

During the week, rainfall was above Long Period Average (LPA) by 22% over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	82.1	67.2	22%
Northwest India	69.6	54.0	29%
Central India	100.1	74.4	35%
South Peninsula	23.6	54.0	-56%
East & northeast India	140.2	94.5	48%

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

Seasonal Rainfall Scenario (1 June to 26 July, 2017)

For the country as a whole, cumulative rainfall during this year's southwest monsoon season has so far upto 26 July is 5% above LPA. Details of the rainfall distribution over the four broad homogeneous regions of India are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	424.2	405.6	5%
Northwest India	300.0	249.7	20%
Central India	488.6	434.2	13%
South Peninsula	296.2	344.5	-14%
East & northeast India	685.8	721.6	-5%

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

Chief synoptic conditions as on 27 July, 2017

- **A well marked low pressure area lies over northeast Madhya Pradesh & neighbourhood.**
- The axis of monsoon trough at mean sea level now passes through Jaisalmer, Sheopur, centre of well marked low pressure area over northeast Madhya Pradesh, Purulia, Digha and thence southeastwards to northeast Bay of Bengal and extends upto 1.5 km above mean sea level.
- A Western Disturbance as an upper air cyclonic circulation lies over western parts of Afghanistan & neighbourhood and extends upto mid-tropospheric levels.
- An upper air cyclonic circulation lies over Gujarat region & neighbourhood between 4.5 km and 5.8 km above mean sea level..

Large scale features as on 27 July, 2017

- Neutral El Niño/Southern Oscillation (ENSO) condition is prevailing currently and similar condition is likely to continue during next two weeks.

- Madden Julian Oscillation (MJO) is in phase 5 with magnitude nearly 1 and is very likely to move in phase 6 & 7 with magnitude nearly 1 during next one week.
- Indian Ocean Dipole (IOD) is near normal (-0.1°C below normal).

Forecast for next two week

Rainfall/snowfall:

- **Under the influence of well marked low pressure area over northeast Madhya Pradesh & neighbourhood, heavy to very heavy rainfall with extremely heavy falls at isolated places very likely to occur over entire Madhya Pradesh on today and heavy to very heavy falls at isolated places over West Madhya Pradesh on 28th. Under the influence of this system, heavy to very heavy rainfall at isolated places also very likely to occur East Rajasthan on today and heavy to very heavy rainfall with extremely heavy falls at isolated places on 28th.**
- **Widespread rainfall activity on most days of the 1st week (27th July to 02nd August) with isolated heavy rainfall on many days of the week is likely to occur over Western Himalayan Region, Sub-Himalayan West Bengal & Sikkim and northeast India.**
- **Fairly widespread rainfall activity with isolated heavy falls on a few days of the week is likely to occur over plains of northwest India during 1st week**
- Overall rainfall activity is likely to be below normal as India as a whole during 1st week **(Annexure III).**
- During 2nd week (03 to 10 August), rainfall activity is likely to be above normal over northeastern states & south Peninsular India and below normal over remaining parts of the country. **Overall rainfall activity is likely to be below normal over India as a whole during 2nd week (Annexure III).**

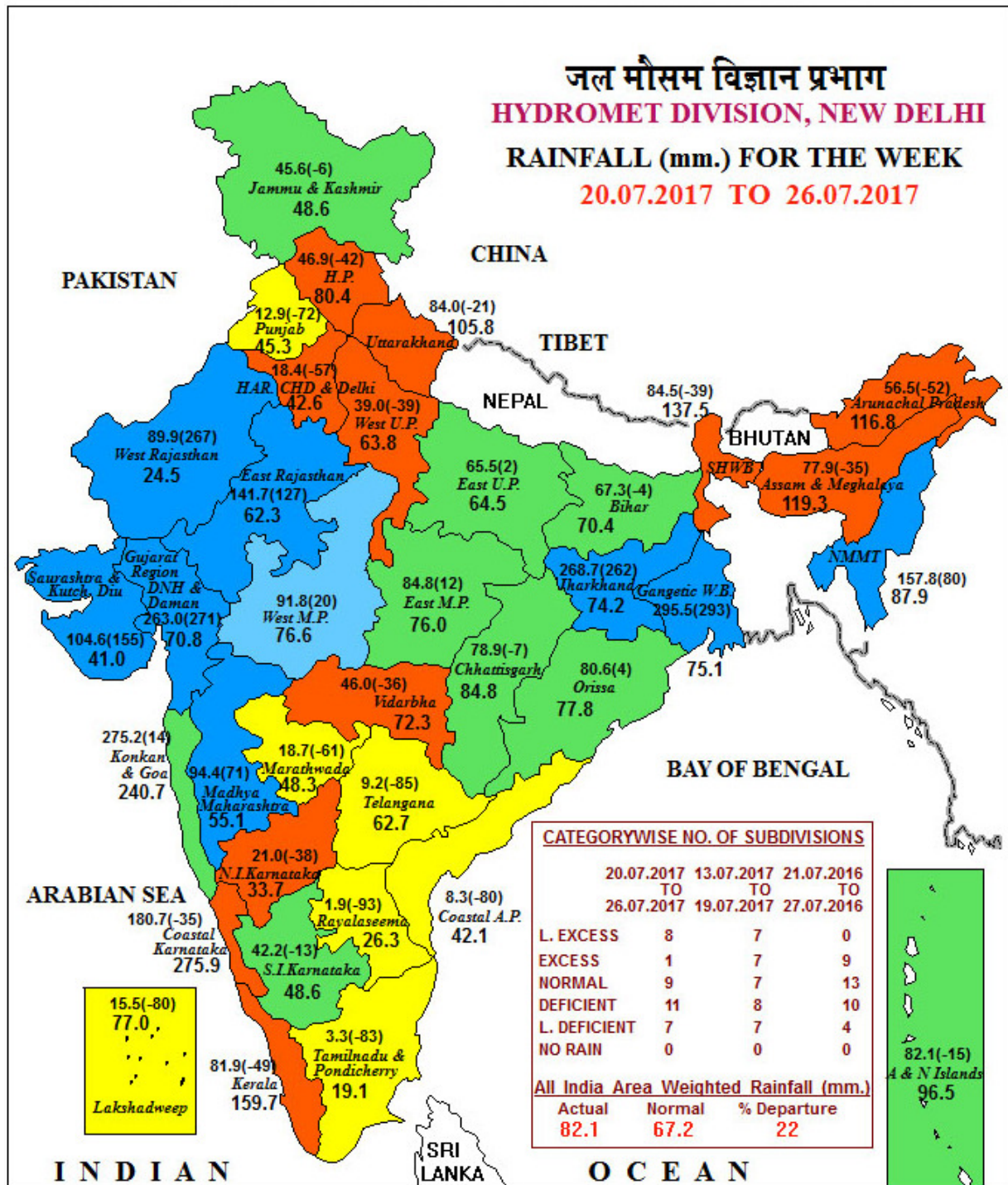
Cyclogenesis:

- No cyclogenesis is likely to develop over Bay of Bengal and Arabian Sea during next two week.

Next weekly update will be issued on Thursday i.e. 03 August, 2017

भारत मौसम विज्ञान विभाग

INDIA METEOROLOGICAL DEPARTMENT



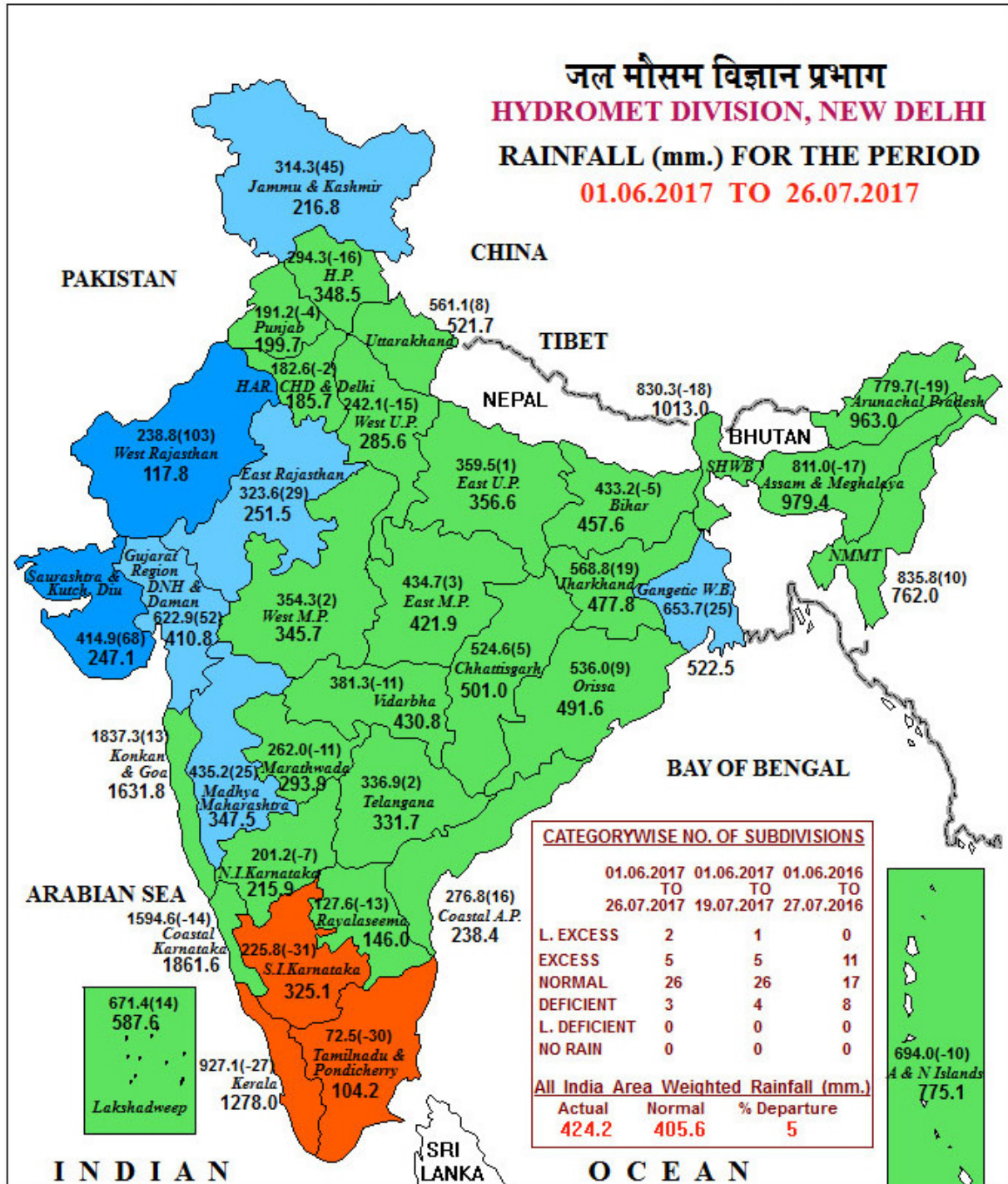
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) NO DATA

NOTES:

(a) Rainfall figures are based on operational data.

(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



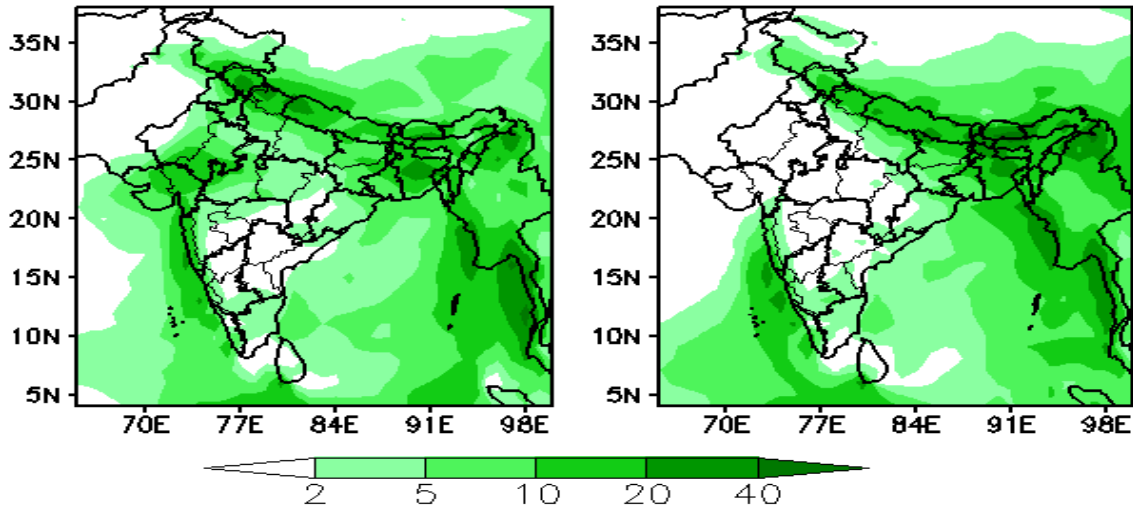
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) NO DATA

NOTES:
 (a) Rainfall figures are based on operational data.
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

Actual Rainfall (mm/day)

(Week1: 28Jul-03Aug)

(Week2: 04Aug-10Aug)



Rainfall Anomaly (mm/day)

(Week1: 28Jul-03Aug)

(Week2: 04Aug-10Aug)

