Government of India
Ministry of Earth Sciences
India Meteorological Department

Dated: 17 September, 2020

Current Weather Status and Outlook for next two weeks (17-30 September 2020)

Significant Features of past week (10 to 16 September 2020)

- A Low Pressure Area formed over Westcentral Bay of Bengal and adjoining Andhra Pradesh on 13 September and moved inland to Telangana on 16 September.
- Cyclonic circulation off Karnataka coast moved north northwestwards along west coast upto 15 September and weakened thereafter.
- Off-shore trough from Maharashtra to Kerala coast during 10-14 September.
- Monsoon trough remained south of its normal position in association with the low pressure system in middle of week and near foothills during rest of week.
- East-west shear zone persisted in mid-tropospheric levels around 15ºN across south peninsular India during most days of the week.
- South Peninsula received 143% above Long Period Average (LPA) rainfall during the week.

Weekly Rainfall Scenario (for week ended on 16 September 2020)

During the week, rainfall was 7% above Long Period Average (LPA) over the country as a whole. Details are given below:

Regions	Actual Rainfall(mm)	Normal Rainfall(mm)	% Departure from LPA
Country as a whole	44.8	42.1	7%
Northwest India	5.1	29.9	-83%
Central India	40.8	43.3	-6%
South Peninsula	83.0	34.1	143%
East & northeast India	83.0	72.9	14%

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

Seasonal Rainfall Scenario for Monsoon Season of 2020 (1 June-16 September 2020)

For the country as a whole, Seasonal cumulative rainfall during this year's southwest monsoon season upto 16 September 2020 was above LPA by +7%. 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	868.0	813.2	7%
Northwest India	484.0	566.2	-15%
Central India	1040.0	912.8	14%
South Peninsula	822.2	643.9	28%
East & northeast India	1302.1	1287.9	1%

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

Chief synoptic conditions as on 17 September 2020

- The monsoon trough is north of its normal position.
- An east--west shear zone runs roughly along Lat. 16°N in middle tropospheric levels.
- A cyclonic circulation lies over Telangana in lower tropospheric levels.
- A cyclonic circulation lies over north Coastal Andhra Pradesh in middle tropospheric levels.

Large scale features as on 17 September 2020

- The Madden Julian Oscillation (MJO) index is currently in Phase 4 with high amplitude (greater than 1). It is very likely to move in Phase 5 with high amplitude during next two weeks.
- Currently, sea surface temperatures (SSTs) and atmospheric conditions over equatorial Pacific Ocean indicate cool ENSO neutral conditions. MMCFS and other global models indicate SSTs over the region to cool further. However, ENSO neutral conditions to continue during remaining part of monsoon season.
- Neutral IOD conditions are prevailing over equatorial Indian Ocean. MMCFS forecast indicates development of negative IOD conditions during coming months**.**

Forecast for next two week (17-30 September 2020)

Week 1: (17-23 September 2020)

- A low pressure area is likely to form over Northwest Bay of Bengal around 20 September 2020.
- Shear zone likely to persist over peninsular India in the middle levels.

- Northwest & adjoining central India very likely to get deficient rainfall leading to rise in maximum temperature over the region.
- In association with likely formation of low pressure system on 20 September over North Bay of Bengal, and consequent strengthening of lower level westerly winds along the West Coast, Northeast & south Peninsular India (excluding Tamilnadu and South Interior Karnataka) very likely to experience above normal rainfall activity during the week.
- Rest of India to receive near normal rainfall during the week (**Annexure III**).

Week 2: (24-30 September 2020)

- Northwest India & interior peninsular India likely to get deficient rainfall.
- Northeast India and west peninsular India likely to experience above normal rainfall activity during the week.
- Normal rainfall activity likely over the central Indian region (**Annexure III**).

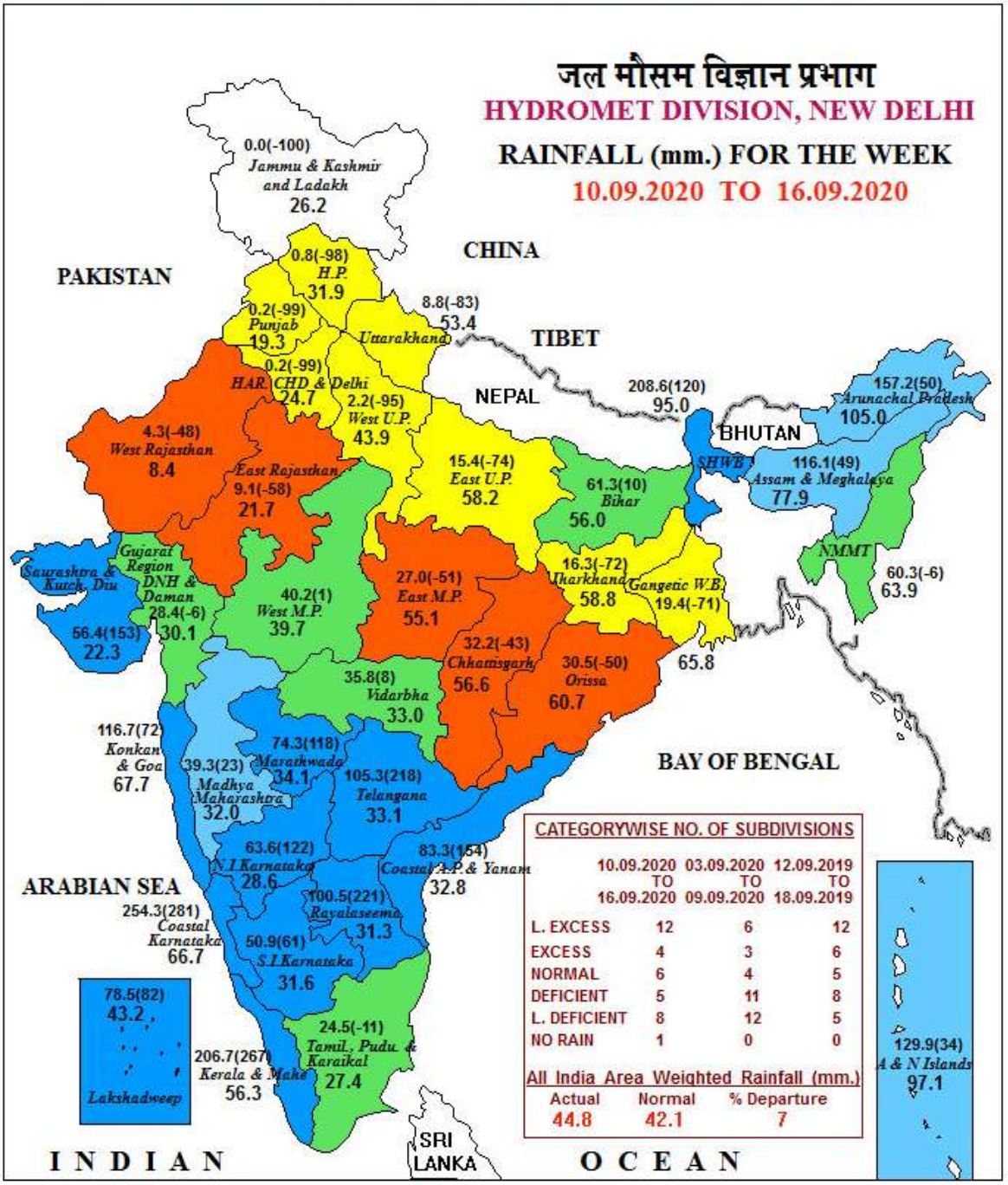
Cyclogenesis

There is a 'Low' probability for Cyclogenesis over North Bay of Bengal during second half of week 1.

Next weekly update will be issued on next Thursday i.e. 24 September 2020

Annexure I

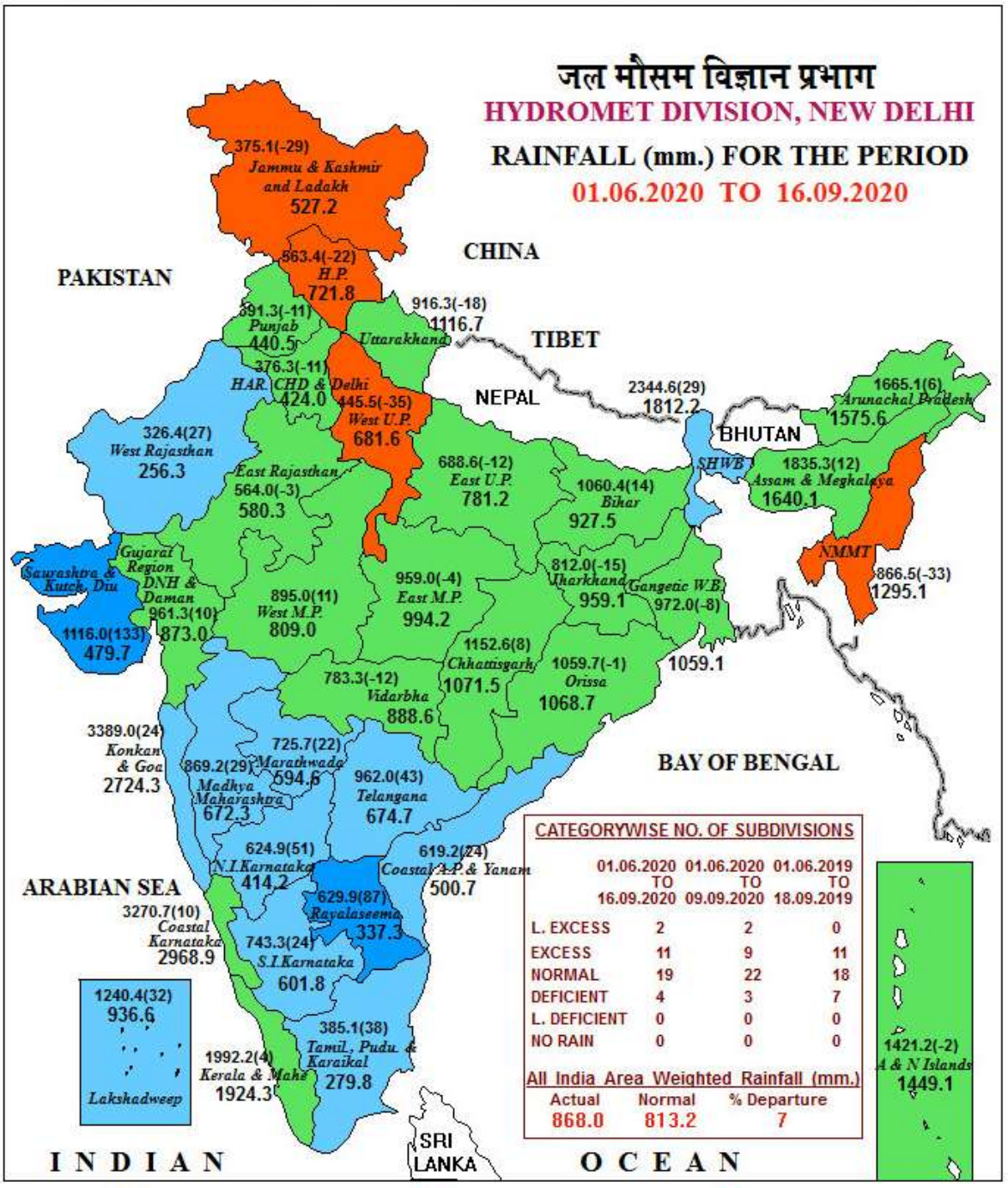
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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.

Annexure II

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.

Annexure III