



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

Dated: 12 November, 2020

Current Weather Status and Outlook for next two weeks (12 to 25 November, 2020)

Significant Features of current week ended on 11 November, 2020

- The weak phase of northeast monsoon continued till 10th November. It rectified since 11th November in association with an active easterly wave approached South India.
- The easterly wave caused scattered to fairly widespread rainfall with isolated heavy falls over southeast Peninsular India towards end of the week.
- During the week rainfall activity was below normal over all the homogeneous regions of the country.

Weekly Rainfall Scenario (05 to 11 November, 2020)

During the week, rainfall was below LPA by 66% over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	2.9	8.4	-66%
Northwest India	0.0	2.2	-99%
Central India	0.1	4.3	-98%
South Peninsula	13.2	25.6	-49%
East & northeast India	1.7	8.2	-80%

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

Seasonal Rainfall Scenario (01 October to 11 November, 2020)

For the country as a whole, cumulative rainfall during this year's post-monsoon season upto 11 November, 2020 is below LPA by 07%. 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	83.5	89.9	-7%
Northwest India	2.1	26.7	-92%
Central India	77.0	60.4	28%
South Peninsula	183.7	198.0	-7%
East & northeast India	130.3	140.9	-8%

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

Chief synoptic conditions as on 12 November, 2020

- A cyclonic circulation embedded in an easterly wave lies over Sri Lanka & neighbourhood at lower tropospheric levels.
- A trough runs from above cyclonic circulation over Sri Lanka & neighbourhood to southwest Bay of Bengal off north Tamilnadu coast at lower tropospheric levels.
- A Western Disturbance as a trough in mid-tropospheric levels with its axis at mid-tropospheric levels runs along Long. 55°E and to the north of Lat. 30°N.

Large scale features as on 12 November, 2020

- Currently, moderate La Niña conditions are prevailing over equatorial Pacific and Sea Surface Temperatures (SSTs) are below normal over central and eastern equatorial Pacific Ocean. The latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates colder than normal SST anomaly is most likely to persist over the Nino 3.4 region and La Niña conditions likely to sustain at least early part of the next year.
- At present, neutral Indian Ocean Dipole (IOD) conditions are observed over Indian Ocean and the latest MMCFS forecast indicates neutral IOD conditions are likely to continue during the coming months.
- The Madden–Julian Oscillation (MJO) at present lies over Phase- 8 with high amplitude (>1). It is very likely to move into Phase-1 with high amplitude during next one week.

Forecast for next two week

Weather systems & associated Precipitation during Week 1 (12 to 18 November, 2020) and Week 2 (19 to 25 November, 2020)

Rainfall for week 1: (12 to 18 November, 2020)

- Under the influence of a trough in easterly at lower tropospheric levels extending from Sri Lanka coast to southwest Bay of Bengal off north Tamilnadu Coast and an embedded cyclonic circulation over Sri Lanka and another fresh easterly wave spell from 14 November, 2020:
 - ✓ Scattered to fairly widespread rainfall accompanied with thunderstorm & lightning very likely over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Kerala and Lakshadweep area during the week.
 - ✓ Isolated heavy rain also very likely over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh during the week (**Annexure III**).
- A fresh Western Disturbance very likely affects northwest India during 13th-16th November. Due to the active easterly wave & an anti-cyclonic circulation over northeast Madhya Pradesh, the easterly winds are likely to interact with the Western Disturbance over the plains of northwest India & adjoining central India. As a result of these systems:
 - ✓ Scattered to fairly widespread precipitation very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; Isolated rainfall over Uttarakhand on 15th & 16th November, over plains of northwest India and adjoining central India on 15th November, 2020.
 - ✓ Isolated heavy falls also very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad on 14th & 15th November, 2020.
 - ✓ Light rainfall activity very likely over plains of northwest India and Madhya Pradesh on 15th & 16th November, 2020 (**Annexure III**).
- **Cumulatively, above normal rainfall very likely over southeast Peninsular India and Western Himalayan Region; Below normal or no rainfall very likely over remaining parts of the country (Annexure IV).**

Rainfall for week 2: (19 to 25 November, 2020)

- **Rainfall activity likely to decrease over south Peninsular India and is likely to be below normal. Due to another Western Disturbance over the region, normal to above normal rainfall likely over Western Himalayan Region; Below normal or no rainfall very likely over remaining parts of the country (Annexure IV).**

Minimum Temperature for week 1 & 2: (12 to 25 November, 2020)

- The trend of decreasing minimum temperatures over the plains of northwest India continued till 10th November with below normal temperatures by about 3-4°C. It

reversed with the prevailing increasing trend from 11th November in association with active easterlies in the country. The rising trend would continue over plains of northwest India & central India till 15th November. Thereafter, minimum temperatures fall over the above region by 2-4°C due to passage of Western Disturbance and weakening of easterlies.

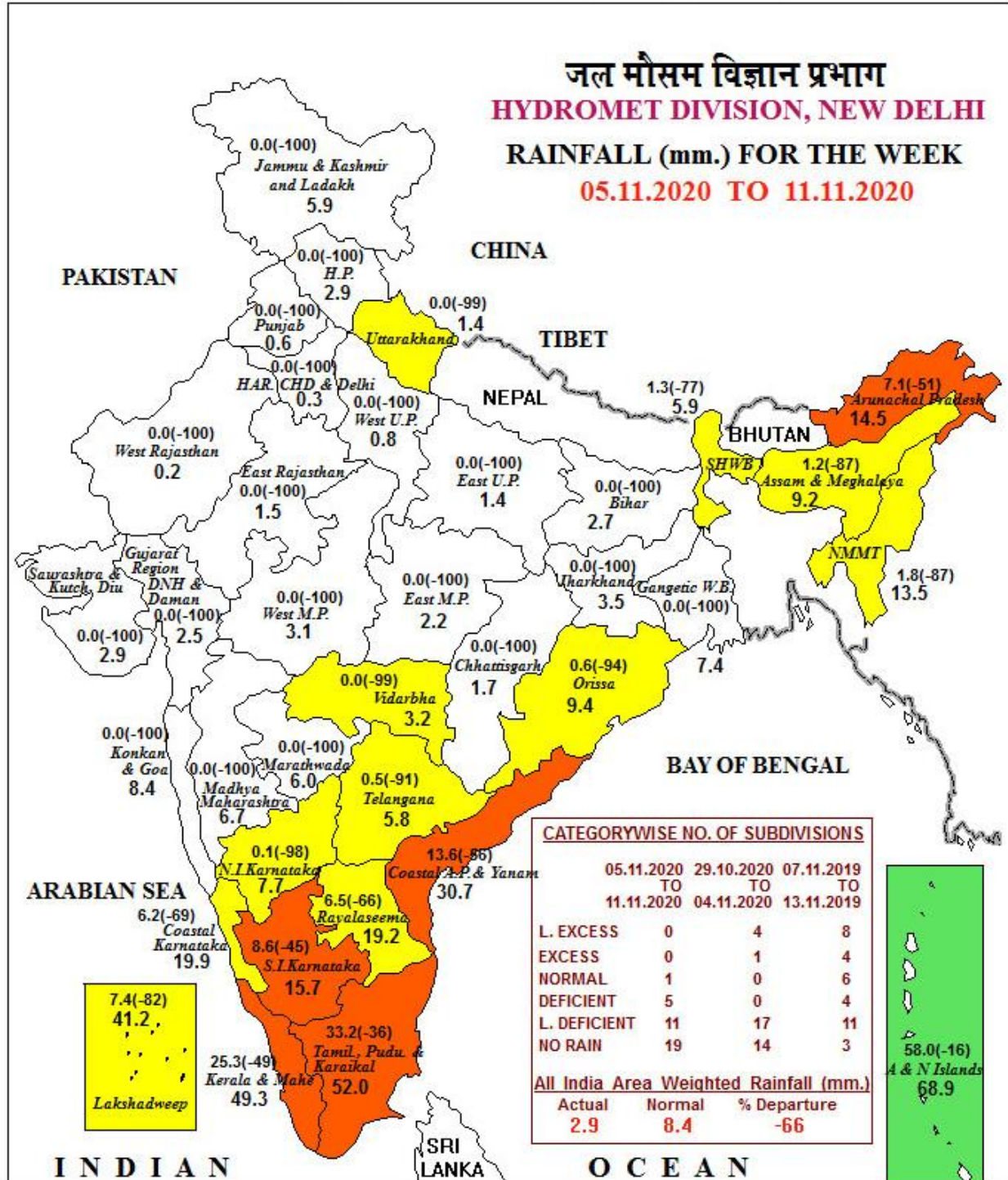
- Overall minimum temperatures are very likely to be below normal by 2-4°C over most parts of the northwest India, above normal by 2° to 3°C over Uttar Pradesh & adjoining area of Madhya Pradesh and parts of south Peninsular India during week 1 (**Annexure V**).
- It is very likely to decrease further during week 2 with below normal temperature over most parts of the country (**Annexure V**).

Cyclogenesis:

- No cyclogenesis (formation of Depression and above) likely over the north Indian Ocean during week 1.
- There exists a 'low' probability for cyclogenesis over south Bay of Bengal and also over south Arabian Sea during the later part of week 2.

Next weekly update will be issued on next Thursday i.e. 19 November, 2020

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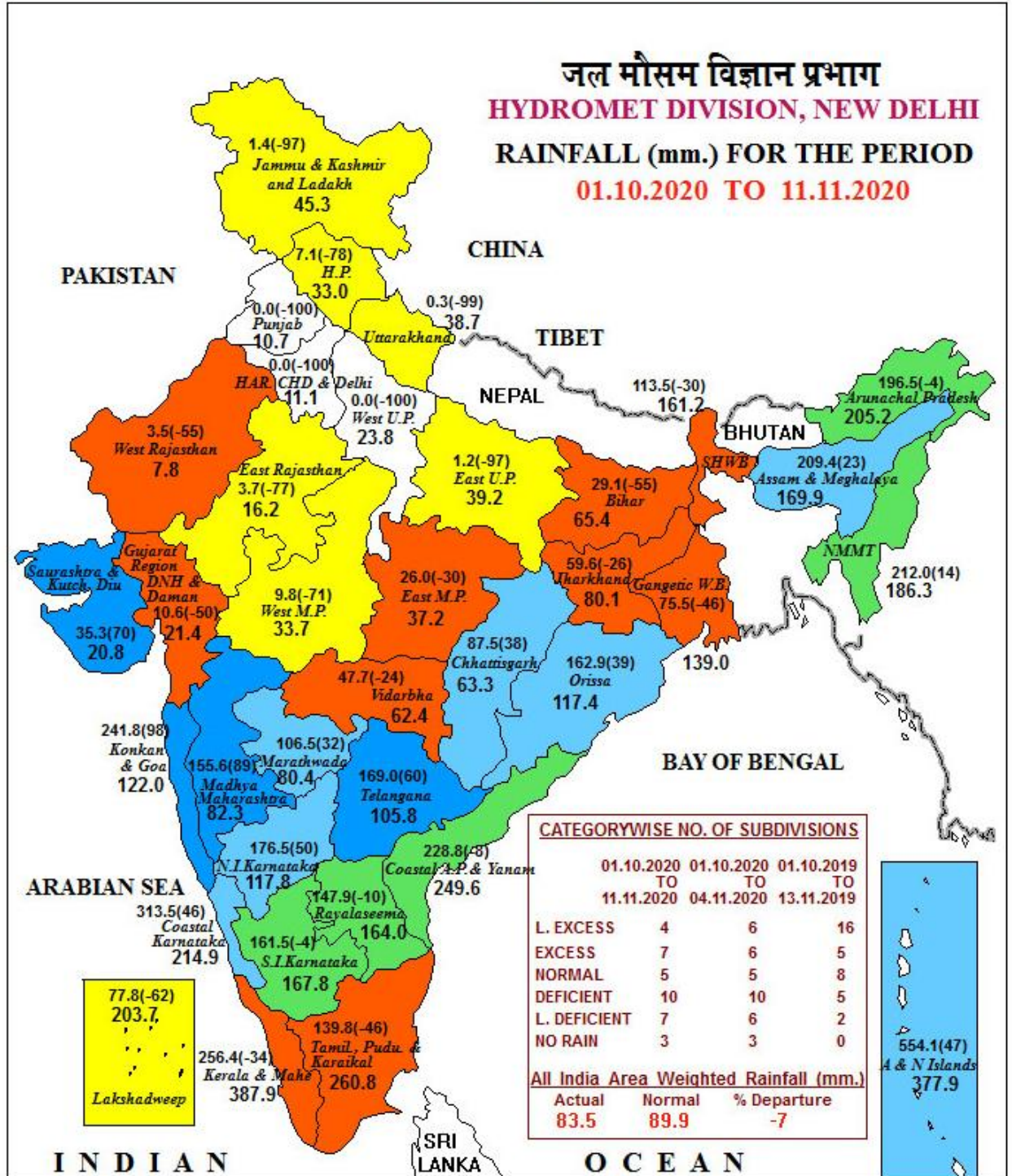
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
 ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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.

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Annexure III

METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST & Wx. WARNINGS-2020

Sr. No	MET.SUB-DIVISIONS	12 NOV	13 NOV	14 NOV	15 NOV	16 NOV	17 NOV	18 NOV
1	ANDAMAN & NICO.ISLANDS	SCT	FWS	SCT	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	D	D	D	D	D	D	D
3	ASSAM & MEGHALAYA	D	D	D	D	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	D	D	D	D	D	D	D
5	SUB-HIM.W. BENG. & SIKKIM	D	D	D	D	D	D	D
6	GANGETIC WEST BENGAL	D	D	D	D	D	D	D
7	ODISHA	D	D	D	D	D	D	D
8	JHARKHAND	ISOL	D	D	D	D	D	D
9	BIHAR	D	D	D	D	D	D	D
10	EAST UTTAR PRADESH	D	D	D	ISOL	D	D	D
11	WEST UTTAR PRADESH	D	D	D	ISOL	D	D	D
12	UTTARAKHAND	D	D	D	ISOL	ISOL	D	D
13	HARYANA CHD. & DELHI	D	D	D	ISOL	ISOL	D	D
14	PUNJAB	D	D	D	ISOL	ISOL	D	D
15	HIMACHAL PRADESH	D	D	ISOL	FWS	ISOL	D	D
16	JAMMU & KASHMIR AND LADAKH	ISOL	SCT	FWS*	WS*	FWS	ISOL	D
17	WEST RAJASTSAN	D	D	D	ISOL	D	D	D
18	EAST RAJASTSAN	D	D	D	ISOL	D	D	D
19	WEST MADHYA PRADESH	D	D	D	ISOL [§]	D	D	D
20	EAST MADHYA PRADESH	D	D	D	ISOL [§]	D	D	D
21	GUJARAT REGION	D	D	D	D	D	D	D
22	SAURASTRA & KUTCH	D	D	D	D	D	D	D
23	KONKAN & GOA	D	D	D	D	D	D	D
24	MADHYA MAHARASHTRA	D	D	D	D	D	D	D
25	MARATHAWADA	D	D	D	D	D	D	D
26	VIDARBHA	D	D	D	D	D	D	D
27	CHHATTISGARH	D	D	D	D	D	D	D
28	COASTAL A. PR. & YANAM	FWS** [§]	SCT [§]	ISOL [§]	SCT** [§]	SCT** [§]	SCT*	SCT*
29	TELANGANA	ISOL	D	D	D	D	D	D
30	RAYALASEEMA	SCT [§]	SCT	ISOL	SCT** [§]	SCT [§]	SCT	SCT
31	TAMIL. PUDU. & KARAIKAL	FWS** [§]	FWS** [§]	FWS** [§]	FWS** [§]	FWS** [§]	FWS*	FWS*
32	COASTAL KARNATAKA	D	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INT.KARNATAKA	D	D	D	D	D	ISOL	ISOL
34	SOUTH INT.KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
35	KERALA & MAHE	SCT [§]	SCT [§]	SCT [§]	SCT [§]	SCT [§]	SCT	FWS
36	LAKSHADWEEP	SCT	SCT [§]	SCT [§]	SCT [§]	SCT [§]	FWS	FWS

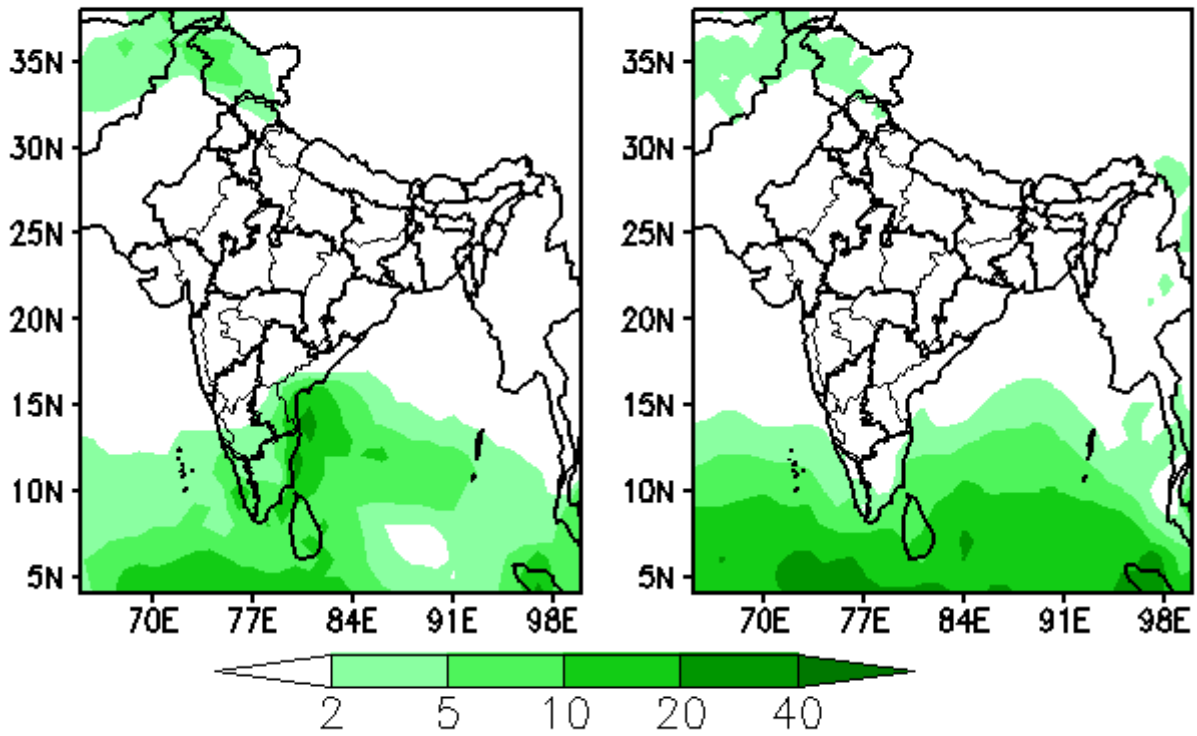
LEGENDS:

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	⚡ COLD WAVE (-4.5 °C to -6.4 °C)	⚡ SEVERE COLD WAVE (< -6.4)
§ TSUNDERSTORM		DS/TS DUST/THUNDERSTORM	🔥 HEAT WAVE (+4.5 °C to +6.4 °C)	🔥 SEVERE HEAT WAVE (> +6.4)

Forecast Rainfall (mm/day)

(Week1: 13Nov-19Nov)

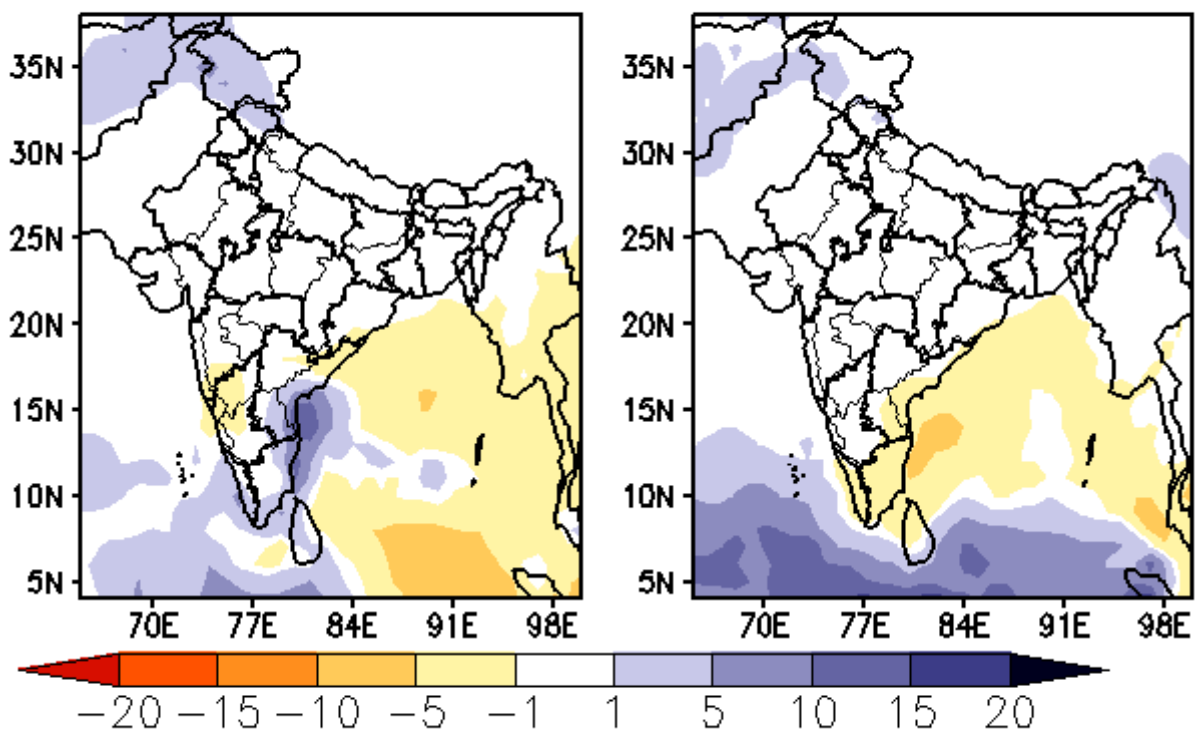
(Week2: 20Nov-26Nov)



Forecast Rainfall Anomaly (mm/day)

(Week1: 13Nov-19Nov)

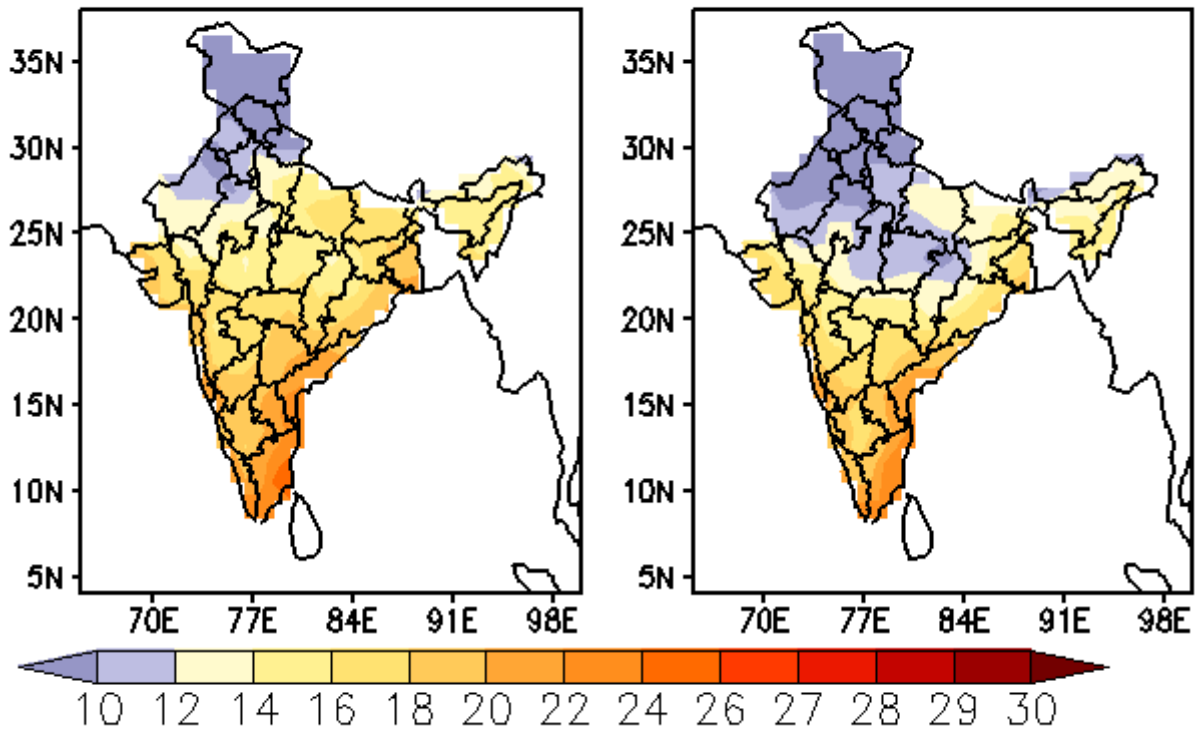
(Week2: 20Nov-26Nov)



MME Bias corrected forecast Tmin (Deg)

(Week1: 13Nov-19Nov)

(Week2: 20Nov-26Nov)



MME forecast Tmin anomaly (Deg C)

(Week1: 13Nov-19Nov)

(Week2: 20Nov-26Nov)

