



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

**Dated: 10 January, 2019**

**Current Weather Status & Outlook for next two weeks (11 to 24 January, 2019)**

**Significant Features**

**Low Pressure System:**

A cyclonic storm 'PABUK' from Gulf of Thailand and adjoining Thailand has emerged into Andaman Sea and neighbourhood on 5<sup>th</sup> January 2019 and lay over Andaman Sea, about 210 km east-southeast of Port Blair. Moving west-northwestwards, it weakened into a Deep Depression on 6<sup>th</sup> and has crossed Andaman Islands close to south of Port Blair in the evening of 6<sup>th</sup> January 2019, as a Deep Depression. It then moved north-westwards and then northwards and weakened into a Depression in the morning of 7<sup>th</sup> January 2019 over Southeast Bay of Bengal near Andaman Islands. Moving northwards and then north-eastwards it weakened into a Well Marked Low pressure area over eastcentral Bay of Bengal & adjoining north Andaman Sea and Myanmar in the early morning of 8<sup>th</sup> January 2019. It weakened further and lay as a Low Pressure area over Myanmar coast and neighbourhood in the morning of 8<sup>th</sup> January 2019.

This system has caused widespread rainfall activity over Andaman & Nicobar Islands for about three days with heavy rainfall reporting on one day during the week.

**Western Disturbances:**

An active Western Disturbance has caused scattered to fairly widespread rainfall/snowfall activity over Western Himalayan Region for about three to four days and isolated to scattered rainfall activity in the adjoining plains of northwest India for about two to three days during the week.

The remnants of the system has caused isolated to scattered precipitation over Sub Himalayan West Bengal & Sikkim and parts of northeast India on two to three days during the week.

**Fog:**

Dense to very dense fog has been reported at isolated places over Punjab on many days; over Haryana, Chandigarh & Delhi on a few days; over Bihar, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Chhattisgarh, Himachal Pradesh and Uttarakhand on one or two days during the week.

### Heavy Rainfall Activity:

Heavy rainfall had been reported at isolated places over Andaman & Nicobar Islands on 7<sup>th</sup> January 2019.

### Temperature:

The lowest minimum temperature of 1.8<sup>o</sup>C had been recorded at Amritsar (Punjab) on 3<sup>rd</sup> January 2019 and at Adampur (Punjab) on 9<sup>th</sup> January 2019 over the plains of the country during the week.

### Weekly Rainfall Scenario (03-09 January, 2019)

During the week, rainfall was below Long Period Average (LPA) by 30 % over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	2.6	3.7	-30%
Northwest India	7.2	6.6	9%
Central India	0.0	1.6	-97%
South Peninsula	1.2	2.0	-38%
East & northeast India	0.7	4.0	-84%

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

### Winter Seasonal Rainfall Scenario (01 to 09 January, 2019)

For the country as a whole, cumulative rainfall during winter season 2019 (03 to 09 January, 2019) was below LPA by -42% over the country as a whole. 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	2.8	4.8	-42%
Northwest India	7.7	8.7	-12%
Central India	0.0	2.2	-98%
South Peninsula	1.5	2.8	-45%
East & northeast India	0.7	4.6	-84%

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

### Chief synoptic conditions as on 9 January, 2019

- The Western Disturbance as an upper air cyclonic circulation lies over Jammu & Kashmir and neighbourhood and extends between 3.1 km & 3.6 km above mean sea level.
- The other western disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 52°E to the north of Lat. 32° N.
- A cyclonic circulation at 1.5 km above mean sea level lies over Comorin area and neighbourhood.
- An induced cyclonic circulation is very likely to form over southwest Rajasthan & neighbourhood by tomorrow.

### Large scale features as on 9 January, 2019

- Currently, ENSO neutral conditions are prevailing over equatorial Pacific Ocean and the latest Monsoon Mission Climate Forecast System (MMCFS) generated forecast indicates ENSO neutral conditions are likely to continue during the forecast period.
- At present, positive Indian Ocean Dipole (IOD) conditions are observed over Indian Ocean and the latest MMCFS forecast indicates that the present positive IOD conditions are likely to turn into neutral IOD conditions during the next couple of months and neutral IOD conditions are likely to persist.
- Madden Julian Oscillation (MJO) index is in Phase 8 with amplitude more than 1, it is likely to move in phase 1 with decreasing in amplitude during next week.

### Forecast for next two week

#### Rainfall and Precipitation during Week 1 & 2 (11-17 & 18-24 January 19)

- Scattered to fairlywide rainfall/snow activity very likely over western Himalayan Region between 11 to 17 and 18 to 24 January; isolated rainfall activity also likely over northern parts of Punjab and Haryana between 11 to 17 January and over Andaman & Nicobar Islands between 11 to 24 January.

Rainfall/snow likely to be above normal over western Himalayan region between 11 to 17 January and near normal between 18 to 24 January. Above normal rainfall activity also likely over Punjab and north Haryana between 11 to 17 January; and over Andaman & Nicobar Islands between 11 to 24 January. Below normal rainfall activity likely over extreme south peninsular India between 11 to 17 January and near normal over rest of the country during **week 1 & week 2. (Annexure III & IV).**

- Minimum temperatures are likely to be above normal some areas of Northwest, West and Northeast India and normal/below normal over rest of the country during 11 to 17 January. Above normal minimum temperatures very likely over most parts of western Himalayan region and some parts of Northwest, West and northeast India and near normal/below normal over rest of the country between 11 to 24 January. **(Annexure V).**
- Dense fog likely at isolated pockets over Punjab, Haryana, Chandigarh & Delhi and north

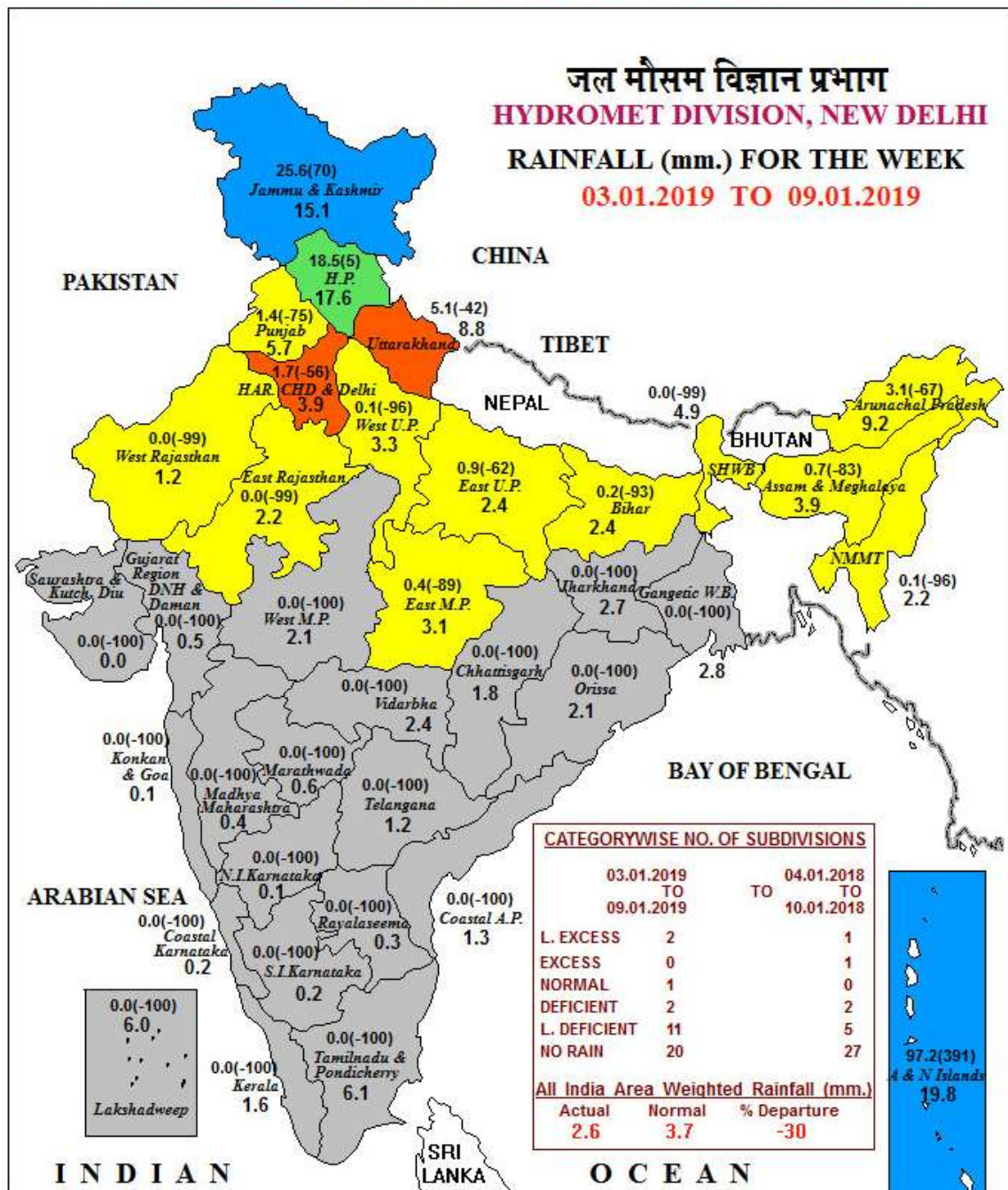
Rajasthan on 12<sup>th</sup> and 13<sup>th</sup> January 2019.

Shallow to moderate fog likely at isolated places over northeastern states during next 4-5 days.

**Cyclogenesis:** No cyclo-genesis likely over north Indian Ocean during next 2 weeks.

**Next weekly update will be issued on next Thursday i.e. 17<sup>th</sup> January 2019.**

# भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



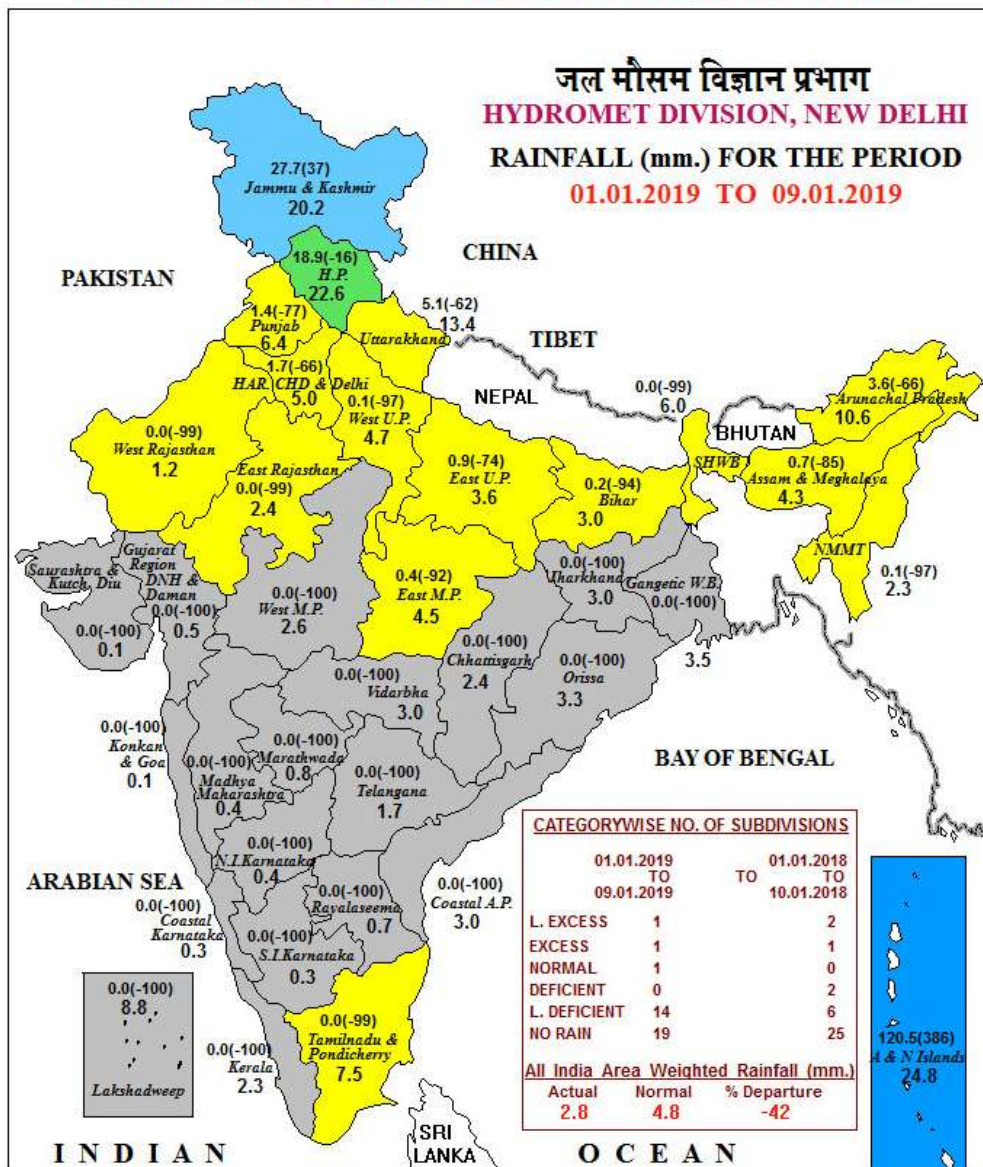
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)  
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%)  NO DATA

**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.

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## Annexure III

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

Sr. No	MET.SUB-DIVISIONS	10 JAN	11 JAN	12 JAN	13 JAN	14 JAN	15 JAN	16 JAN
1	ANDAMAN & NICO.ISLANDS	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	ISOL	D	D	D	ISOL	D	D
3	ASSAM & MEGHALAYA	ISOL	D	D	D	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	D	D	D	D	D	D	D
5	SUB-HIM.W. BENG. & SIKKIM	ISOL	D	D	ISOL	ISOL	D	D
6	GANGETIC WEST BENGAL	D	D	D	D	D	D	D
7	ODISHA	D	D	D	D	D	D	D
8	JHARKHAND	D	D	D	D	D	D	ISOL
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	ISOL	ISOL	D	D	D
12	UTTARAKHAND	ISOL	ISOL	FWS	SCT	D	D	D
13	HARYANA CHD. & DELHI	ISOL	ISOL	SCT*	ISOL*	D	D	D
14	PUNJAB	ISOL	SCT	SCT*	ISOL*	D	D	D
15	HIMACHAL PRADESH	SCT	FWS	WS*	ISOL	D	ISOL	ISOL
16	JAMMU & KASHMIR	FWS	WS	WS*	ISOL	D	SCT	ISOL
17	WEST RAJASTHAN	D	ISOL	ISOL*	D*	D	D	D
18	EAST RAJASTHAN	D	D	ISOL*	ISOL*	D	D	D
19	WEST MADHYA PRADESH	D	D	D	D	D	D	D
20	EAST MADHYA PRADESH	D	D	D	ISOL	D	D	D
21	GUJARAT REGION D.D. & N.H.	D	D	D	D	D	D	D
22	SAURASTRA KUTCH & DIU	D	D	ISOL	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	ISOL	D	D	D
28	COASTAL ANDHRA PRADESH	D	D	D	D	D	D	D
29	TELANGANA	D	D	D	D	D	D	D
30	RAYALASEEMA	D	D	D	D	D	D	D
31	TAMILNADU & PUDUCHERRY	D	D	D	ISOL	ISOL	ISOL	D
32	COASTAL KARNATAKA	D	D	D	D	D	D	D
33	NORTH INT.KARNATAKA	D	D	D	D	D	D	D
34	SOUTH INT.KARNATAKA	D	D	D	D	D	D	D
35	KERALA	D	D	D	D	D	D	D
36	LAKSHADWEEP	D	D	D	D	D	D	D

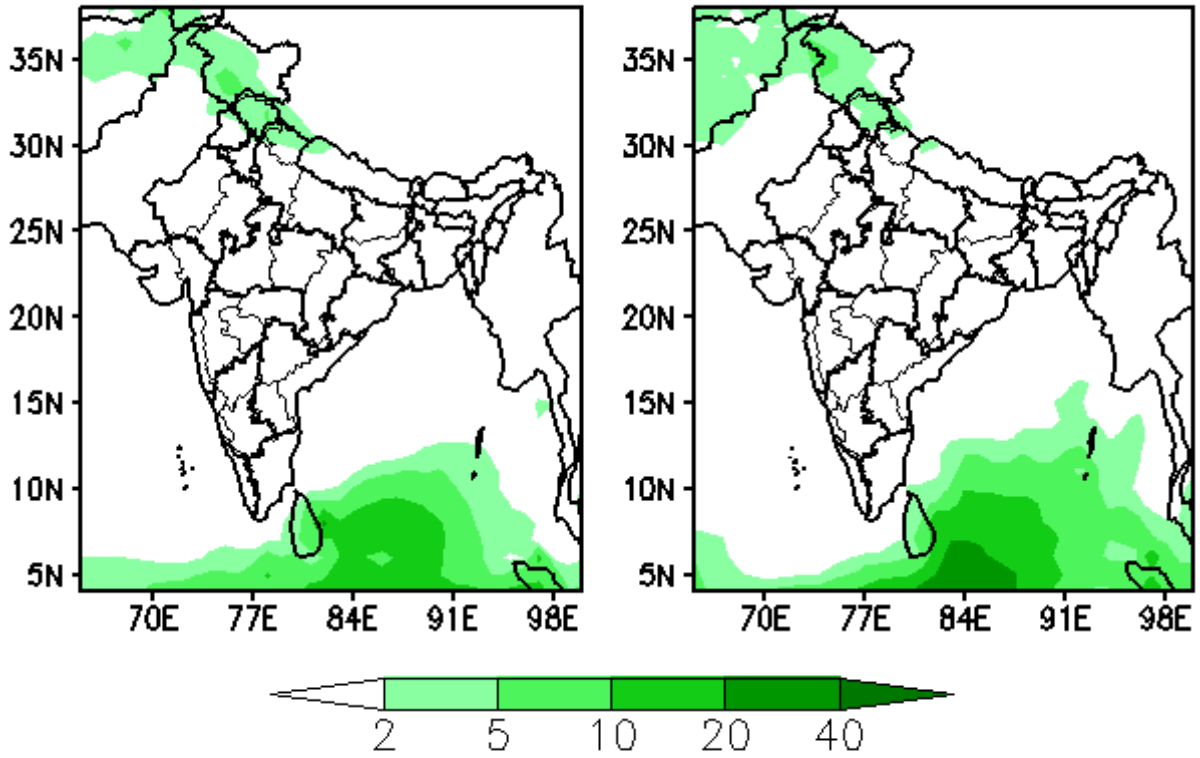
## LEGENDS:

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)	
‡	COLD WAVE (-4.5 °C to -6.4 °C)		‡‡	SEVERE COLD WAVE (< -6.4)	
§	THUNDERSTORM WITH SQUALL/GUSTY WIND		DS/TS	DUST/THUNDERSTORM	

### Forecast rainfall (mm per day)

(Week1: 11Jan-17Jan)

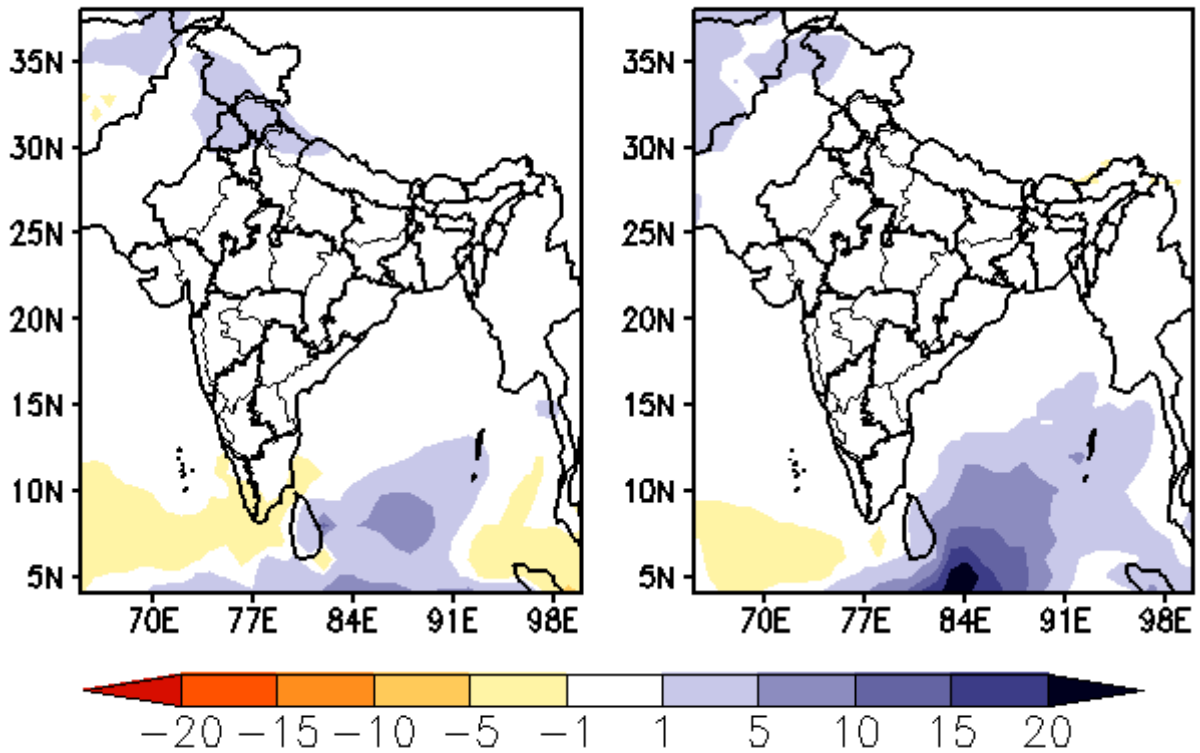
(Week2: 18Jan-24Jan)



### Forecast rainfall anomaly (mm per day)

(Week1: 11Jan-17Jan)

(Week2: 18Jan-24Jan)





(Week1: 11Jan-17Jan)

(Week2: 18Jan-24Jan)

