

Saturday, October 07, 2023 Time of Issue: 0745 hours IST (MORNING)

### ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### **Significant Weather Features**

### Withdrawal of Southwest Monsoon:

- ❖ The line of withdrawal of Southwest Monsoon continues to pass through 28.6°N/80.6°E, Lucknow, Satna, Nagpur, Parbhani, Pune, Alibag and 18.9°N/70.0°E.
- ❖ Conditions are favourable for further withdrawal of Southwest Monsoon from remaining parts of East Uttar Pradesh, East Madhya Pradesh; some parts of Bihar, Jharkhand, Odisha, Chhattisgarh, Telangana; and some more parts of Maharashtra and Central Arabian Sea during next 2 days.

### **Significant Weather features:**

- ✓ A **Low Pressure Area** lies over Central Parts of Bangladesh & neighbourhood.
- ✓ A trough runs from Nagaland to southwest Bihar across the cyclonic circulation associated with the above Low Pressure Area in lower tropospheric levels.

### **Weather Forecast and Warnings:**

**Northeast India**: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Assam & Meghalaya on 07<sup>th</sup> & 08<sup>th</sup> October.

**East India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Andaman & Nicobar Islands during 07<sup>th</sup> to 08<sup>th</sup> October.

**South India:** Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Ghat areas of Tamil Nadu and Kerala-Mahe during 08<sup>th</sup>-11<sup>th</sup> October, 2023.

**Northwest India:** Light isolated to scattered rainfall over Western Himalayan region during 08<sup>th</sup>-10<sup>th</sup> and isolated drizzle over extreme northern parts of Punjab and Haryana on 09<sup>th</sup> October, 2023.

Central & West India: No significant weather over the region during next 5 days.





### **Main Weather Observations:**

- ❖ Rainfall distribution (from 0830 hours IST to 1730 hours IST yesterday): at many places over Assam & Meghalaya, Arunachal Pradesh; at a few places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Chhattisgarh, Odisha, East Uttar Pradesh, Bihar, West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Haryana-Chandigarh-Delhi, Uttarakhand, Madhya Pradesh, Gujarat Region, Kerala & Mahe, Madhya Maharashtra, Telangana, South Interior Karnataka and Jharkhand.
- ❖ Significant rainfall recorded (from 0830 hours IST to 1730 hours IST yesterday) (in cm): Pakke-6; Miao-5; Bhadohi, Boundhgarh, Khatarshnong, Silchar and Chouldhuaghat-3 each.
- ❖ Minimum Temperature Departures (as on 06-10-2023): Minimum temperatures were above normal (1.6°C to 3.0°C) at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, East Uttar Pradesh, Manipur, Odisha, Jharkhand, south Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at many places over south Haryana, Delhi; at isolated places over Madhya Pradesh, Maharashtra, Telangana and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 17.1°C was reported at Ridge (Delhi) over the plains of the country.
- ❖ Maximum **Temperature Departures** (as **06-10-2023):** Maximum on temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; above normal (1.6°C to 3.0°C) at many places over Madhya Maharashtra, Marathwada and Kerala & Mahe; at a few places over Himachal Pradesh, Uttarakhand, Punjab and Harvana-Chandigarh-Delhi and at isolated places over north Rajasthan, Uttar Pradesh, Sub-Himalaya West Bengal & Sikkim, Gujarat state, Telangana, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at a few places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over Assam & Meghalaya, Gangetic West Bengal and Bihar and **near normal** over rest parts of the country. Yesterday, the highest maximum temperature of 38.8°C was reported at Agra (West Uttar Pradesh).



# Meteorological Analysis (Based on 0530 hours IST)

- ❖ The line of withdrawal of Southwest Monsoon continues to pass through 28.6°N/80.6°E, Lucknow, Satna, Nagpur, Parbhani, Pune, Alibag and 18.9°N/70.0°E.
- Conditions are favourable for further withdrawal of Southwest Monsoon from remaining parts of East Uttar Pradesh, East Madhya Pradesh; some parts of Bihar, Jharkhand, Odisha, Chhattisgarh, Telangana; and some more parts of Maharashtra and Central Arabian Sea during next 2 days.
- ❖ The **Low Pressure Area** over central parts of Bangladesh & neighbourhood with the associated cyclonic circulation extending upto 3.1 km above mean sea level persists.
- ❖ The **trough** from Nagaland to southwest Bihar across the cyclonic circulation associated with the Low-Pressure Area over central parts of Bangladesh & neighbourhood and extending upto 3.1 km above mean sea level persists.
- ❖ A fresh Western Disturbance likely to affect Western Himalayan Region from the night of 08<sup>th</sup> October, 2023.

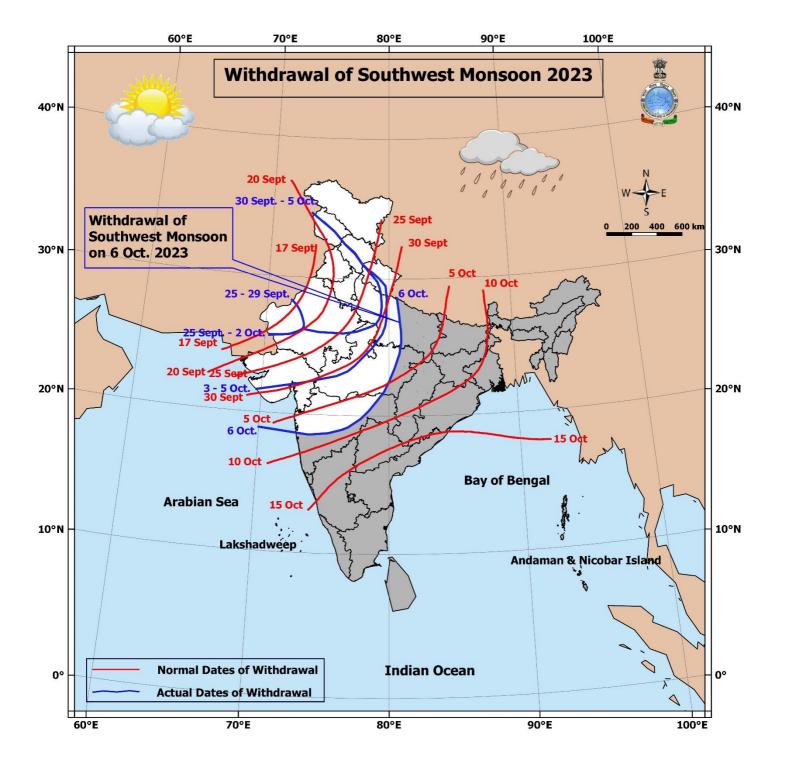
### Weather Forecast for next 5 days (Upto 0830 hours IST of 12th October, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ No significant change in maximum temperatures likely over most parts of country during next 5 days.

### Weather Outlook for subsequent 2 days

- Scattered to fairly widespread light/moderate rainfall likely over parts of South peninsular India; Northeast India and Islands.
- ❖ Isolated to scattered rainfall likely over parts of East India. Dry weather likely to prevail over rest parts of the country.







### Table-1

	7 Days Rainfall Forecast							
S. No.	Subdivision	07-Oct	08-0ct	09-0ct	10-0ct	11-0ct	12-0ct	13-0ct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	FWS	FWS	SCT
2	ARUNACHAL PRADESH	FWS	SCT	SCT	SCT	SCT	SCT	ISOL
3	ASSAM & MEGHALAYA	WS	FWS	SCT	SCT	SCT	SCT	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	SCT	SCT	FWS	FWS	FWS	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	SCT	SCT	SCT	SCT	SCT	DRY
6	GANGETIC WEST BENGAL	ISOL	ISOL	DRY	DRY	DRY	ISOL	DRY
7	ODISHA	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
9	BIHAR	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	ISOL	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
12	UTTARAKHAND	DRY	DRY	SCT	ISOL	DRY	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	SCT	ISOL	DRY	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	SCT	ISOL	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJARAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
24	MADHYA MAHARASHTRA	DRY						
25	MARATHAWADA	DRY						
26	VIDARBHA	DRY						
27	CHHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH & YANAM	ISOL						
29	TELANGANA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	SCT	SCT	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	SCT	SCT	SCT	SCT	ISOL	ISOL
32	COASTAL KARNATAKA	SCT	SCT	SCT	FWS	FWS	FWS	SCT
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
34	SOUTH INTERIOR KARNATAKA					SCT	SCT	ISOL
35	KERALA & MAHE	ISOL	SCT	SCT	SCT			
		ISOL	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	SCT	SCT	DRY

Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0



Fig. 1: Maximum Temperatures Dated 06.10.2023

Fig. 2: Departure of Maximum Temp. Dated 06.10.2023

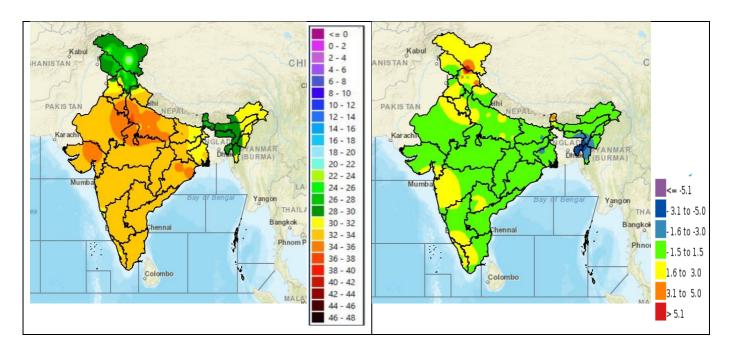


Fig. 3: Minimum Temperatures Dated 06.10.2023

Fig. 4: Departure of Minimum Temp. Dated 06.10.2023

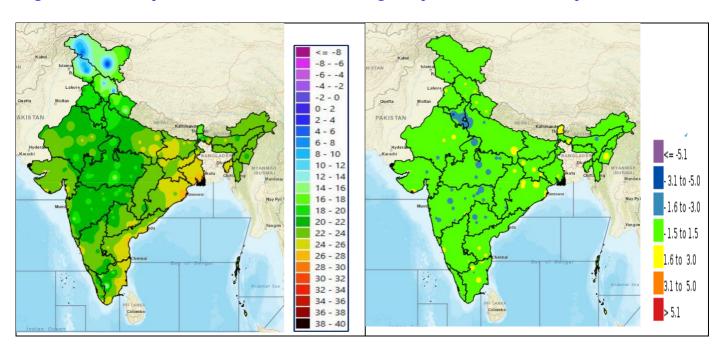
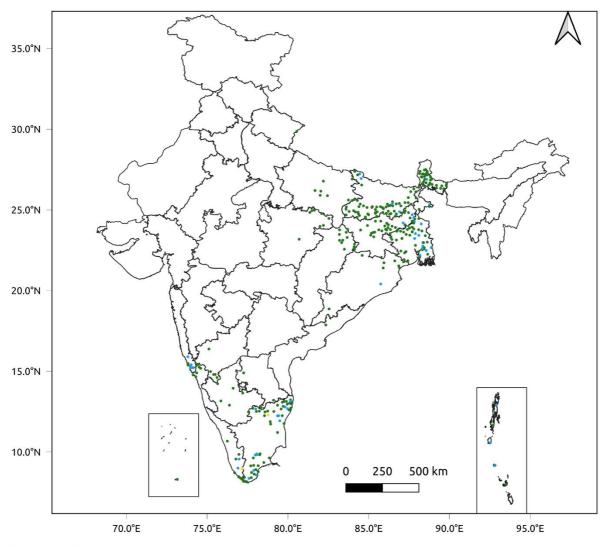




Fig. 5: Accumulated Rainfall (mm) during past 24 hours



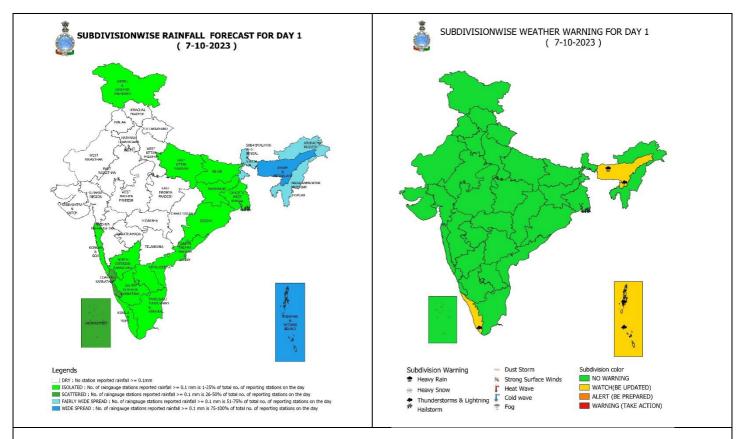
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 5-10-2023 to 0830 IST of 6-10-2023



# Legends

- Very Light to Light Rainfall (0.1 15.5 mm)
- Moderate Rainfall (15.6 64.4 mm)
- Heavy Rainfall (64.5 115.5 mm)
- Very Heavy Rainfall (115.6 204.4 mm)
- Extremely Heavy Rainfall (>=204.5 mm)

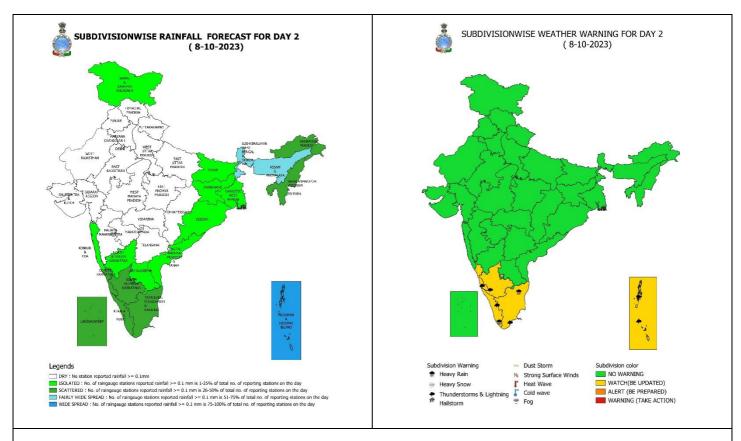




# 07 October (Day 1):

- ❖ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands and Assam & Meghalaya.
- ❖ Thunderstorm with lightning very likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya and Kerala & Mahe.

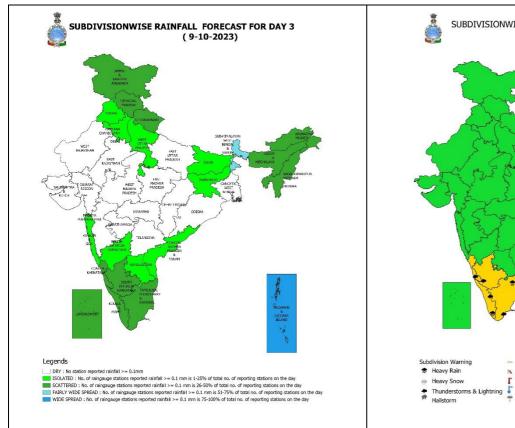


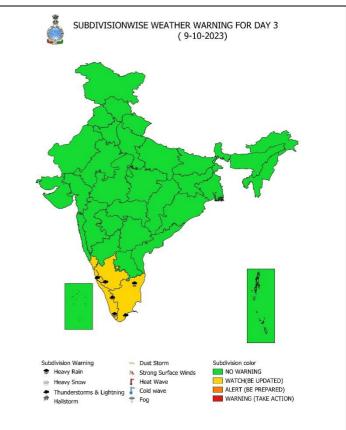


## 08 October (Day 2):

- ❖ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, Tamil Nadu and Kerala.
- ❖ Thunderstorm with lightning very likely at isolated places over Andaman & Nicobar Islands, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.



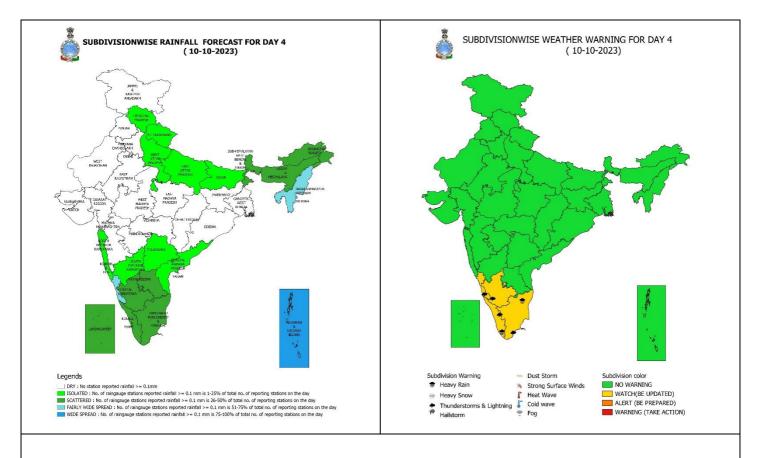




### 09 October (Day 3):

- **Heavy rainfall** very likely at isolated places over Tamil Nadu and Kerala.
- ❖ Thunderstorm with lightning very likely at isolated places over Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

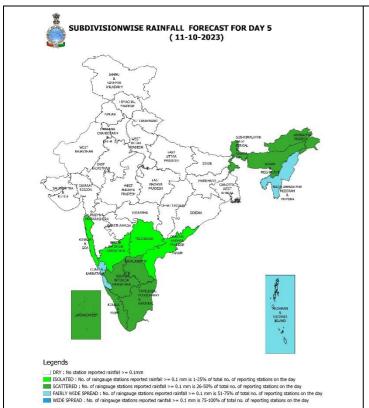


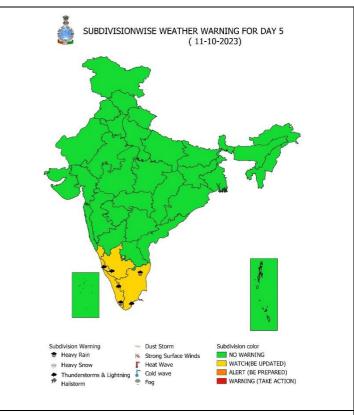


## **10 October (Day 4):**

- ❖ Heavy rainfall likely at isolated places over ghat areas of Tamil Nadu and Kerala.
- **Thunderstorm with lightning** likely at isolated places over Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.





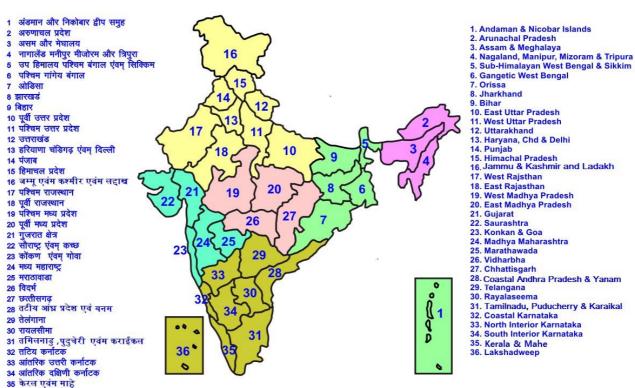


### 11 October (Day 5):

- **Heavy rainfall** likely at isolated places over ghat areas of Tamil Nadu and Kerala.
- ❖ Thunderstorm with lightning likely at isolated places over Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.



# **LEGENDS**



- **Gangetic West Bengal**

- 28. Coastal Andhra Pradesh & Yanam
- 31. Tamilnadu, Puducherry & Karaikal 32. Coastal Karnataka

- SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)

## WARNING

# **WARNING (TAKE ACTION)**

ALERT (BE PREPARED) WATCH (BE UPDATED)

NO WARNING (NO ACTION)

# **Probabilistic Forecast**

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



36 लक्षद्वीप

**Heavy Rain** 

**Heavy Snow** 



**Thunderstorm** 



**Dust Storm** 



**Strong Winds** 



Visibility



Cyclone



Squall/ Hail



Frost



**Cold Wave** 



**Heat Wave** 



Sea State





