

National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Tuesday, December 12, 2023 Time of Issue: 0800 hours IST (MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Minimum Temperatures are in the range of 6-10°C over most parts of Punjab, Haryana-Chandigarh-Delhi, North Rajasthan and over many parts of Uttar Pradesh.

Weather systems:

- A cyclonic circulation lies over Southeast Arabian Sea & adjoining Maldives area in lower tropospheric levels.
- A Western Disturbance seen as a trough roughly along Long. 72°E to the north of Lat. 32°N in lower tropospheric levels.

Rainfall Warning:

- Light to moderate rainfall at some to many places accompanied with isolated thunderstorm, lightning and gusty winds very likely over Kerala & Mahe on 12th, 15th & 16th and over south Tamil Nadu on 12th & 16th December.
- No significant weather likely over remaining parts of the country during next 5 days.

Hailstorm warning:

• **Hailstorm** likely at isolated places over Sikkim on 12th and over Arunachal Pradesh on 13th December.

Dense fog warning:

• **Dense fog** during morning hours very likely in isolated pockets over Punjab on 12th & 13th and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 12th -14th December.

Minimum Temperatures Forecast:

• No significant change in Minimum Temperatures over most parts of the country during next 4-5 days.





Main Weather Observations:

- ❖ Rainfall distribution (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- **❖ Significant Rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Kerala:** Chavara-3, Venkurinji-2; **Tamil Nadu**: Pamban-2.
- ❖ Fog Observed (at 0530 hours IST of today): Dense in isolated pockets of East Uttar Pradesh and Punjab.
- **❖ Visibility Recorded (at 0530 hours IST of today) (≤200 metre):** Amritsar, Lucknow, Varansi-200 each.
- ❖ Minimum Temperature Departures (as on 11-12-2023): Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Madhya Maharashtra, Konkan & Goa; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Gujarat Region; at many places over Arunachal Pradesh; at isolated places over West Madhya Pradesh, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim, Telangana; They were below normal (-1.6°C to -3.0°C) at a few places over Himachal Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan, Haryana-Chandigarh-Delhi, Punjab, Uttar Pradesh, Gangetic West Bengal, Bihar and near normal over rest parts of the country. Today, the lowest minimum temperature of 5.5°C was reported at Bareilly (West Uttar Pradesh) and Sikar (East Rajasthan) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 11-12-2023): Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Coastal Andhra Pradesh & Yanam and Lakshadweep; at isolated places over West Rajasthan, Saurashtra & Kutch, Madhya Maharashtra, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Himachal Pradesh and Bihar; below normal (-1.6°C to -3.0°C) at a few places over West Bengal & Sikkim and Vidarbha; at isolated places over Haryana-Chandigarh-Delhi, East Rajasthan, Madhya Pradesh, Jharkhand and Odisha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.5°C was reported at Ratnagiri (Konkan & Goa).





Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Cyclonic Circulation** over Southeast Arabian Sea & adjoining Maldives area extending upto 1.5 km above mean sea level persists.
- ❖ The **Western Disturbance** as a trough now runs roughly along Long. 72°E to the north of Lat. 32°N at 3.1 km above mean sea level.

Weather Forecast for next 7 days (Upto 0830 hours IST of 19th December, 2023)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Shallow to moderate fog likely in morning hours at isolated pockets over northwest India and East India during next 24 hours.
- ❖ No significant change in Minimum Temperatures over most parts of the country during next 4-5 days.

Weather Outlook for subsequent 2 days

- Scattered to fairly widespread light to moderate rainfall likely over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Islands; Isolated to scattered light rainfall likely over Karnataka.
- Mainly dry weather likely to prevail over rest parts of the country.





Table-1

	7 Days Rainfall Forecast							
S.	0.1.11.11	12-	13-	14-	15-	16-	17-	18-
No.	Subdivision	Dec Dev 1	Dec	Dec	Dec 1	Dec	Dec	Dec
1	ANDAMAN & NICOBAR ISLANDS	Day 1	Day 2 SCT	Day 3 FWS	Day 4 FWS	Day 5 FWS	Day 6 FWS	Day 7 FWS
2	ARUNACHAL PRADESH	ISOL	SCT	ISOL	DRY	DRY	DRY	DRY
3	ASSAM & MEGHALAYA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	ISOL	DRY	DRY	DRY	ISOL	ISOL	DRY
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
35	KERALA & MAHE	SCT	ISOL	ISOL	SCT	SCT	SCT	FWS
36	LAKSHADWEEP	SCT	SCT	SCT	FWS	FWS	WS	FWS

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. 2: Departure of Maximum Temperatures

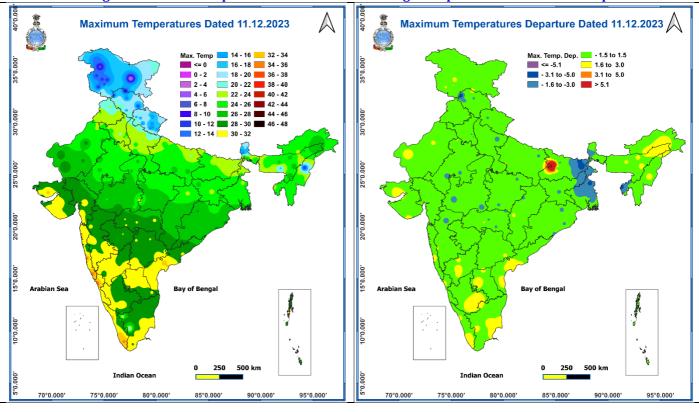




Fig. 4: Departure of Minimum Temperatures

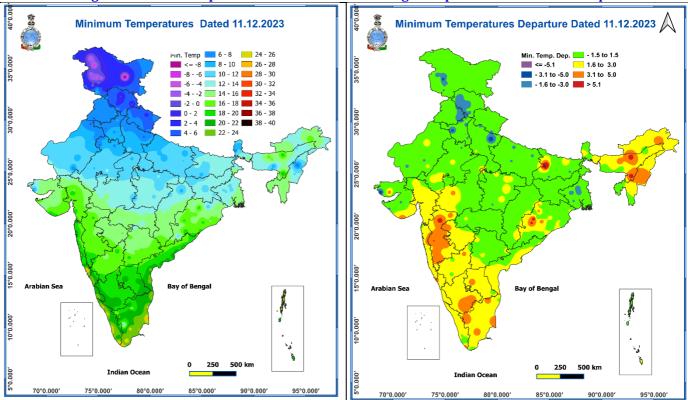
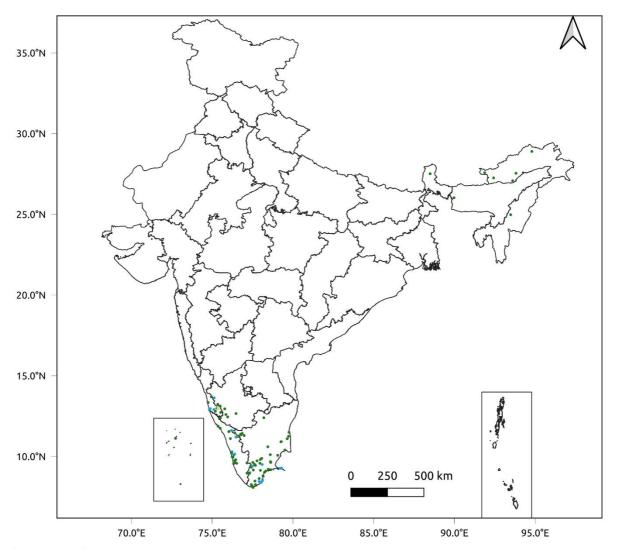




Fig. 5: Accumulated Rainfall (mm) during past 24 hours



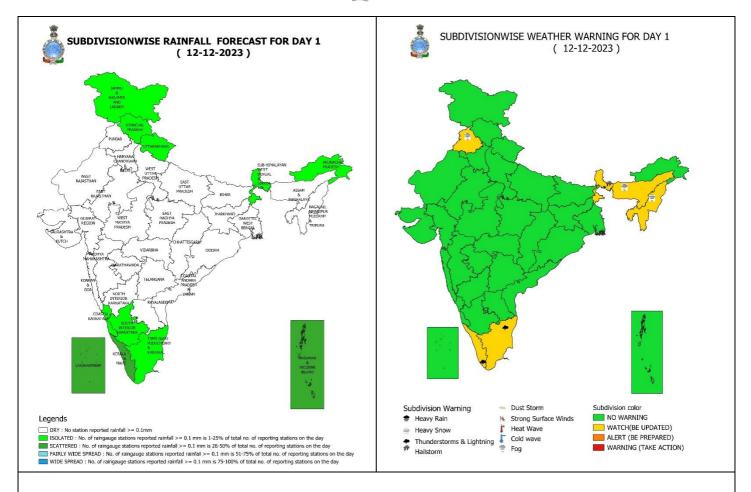
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 10-12-2023 to 0830 IST of 11-12-2023



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)

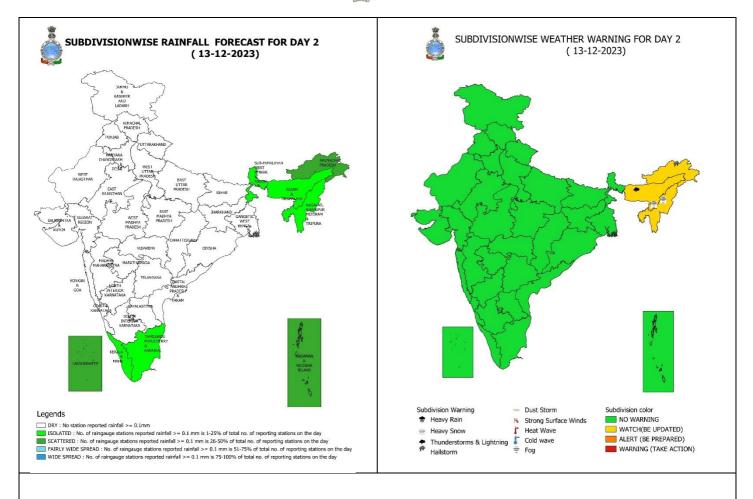




12 December (Day 1):

- ❖ Thunderstorm accompanied with lightning & hail very likely at isolated places over Sikkim; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Kerala & Mahe and with lightning at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ **Dense Fog** very likely in isolated pockets over Punjab, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.



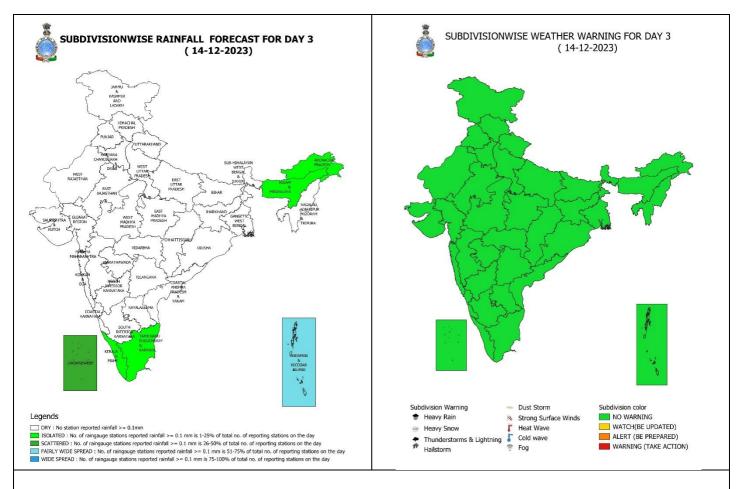


13 December (Day 2):

- ❖ Thunderstorm accompanied with lightning & hail very likely at isolated places over Arunachal Pradesh and with lightning at isolated places over Assam & Meghalaya.
- ❖ Dense Fog very likely in isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.



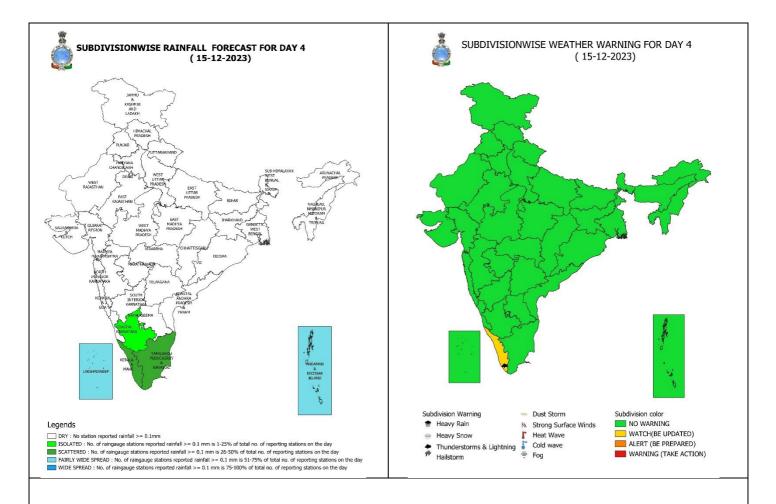
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14 December (Day 3):

***** No weather warning.

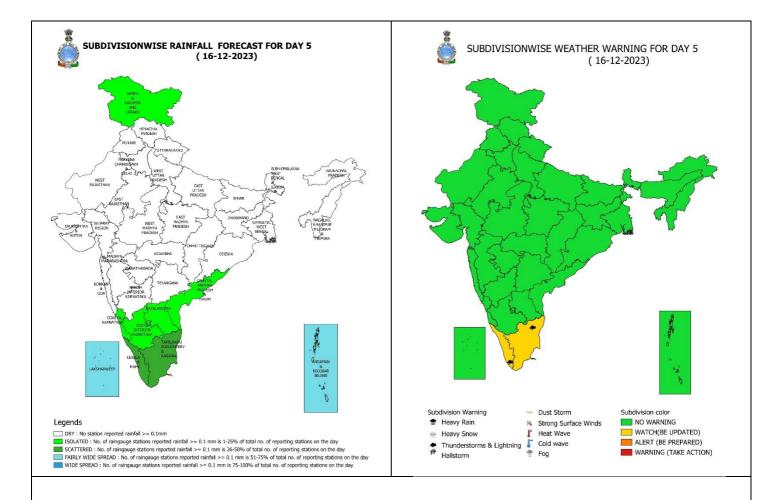




15 December (Day 4):

Thunderstorm accompanied with lightning likely at isolated places over Kerala & Mahe.





16 December (Day 5):

❖ Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.





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



Heavy Rain



Heavy Snow



7 Thunderstorm



Dust Storm



Strong Winds



Visibility





Cyclone



Squall/ Hail





Cold Wave



Heat Wave



Sea State



