



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Saturday, April 13, 2024 Time of Issue: 0800 hours IST (MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- A cyclonic circulation lies over Saurashtra & Kutch and a trough/wind discontinuity runs from this cyclonic circulation to South Interior Karnataka in lower tropospheric levels. A cyclonic circulation lies over north Odisha and another over Comorin area & neighbourhood in lower tropospheric levels. Under the influence of these systems:
 - Isolated to scattered light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Madhya Pradesh, Chhattisgarh, Vidarbha, Marathwada, Madhya Maharashtra during 13th-14th April, 2024.
 - Isolated light/moderate rainfall accompanied with thunderstorm, lightning very likely over Gangetic West Bengal, Jharkhand, Odisha, Bihar and Andaman & Nicobar Islands during 13th-14th April, 2024.
 - ✓ Isolated light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Telangana, Kerala & Mahe, Interior Karnataka during next 6 days and over Coastal Andhra Pradesh-Yanam, Tamil Nadu, Puducherry-Karaikal during 13th-15th April, 2024.
 - ✓ Hailstorm activity also very likely at isolated places over Madhya Pradesh & Vidarbha on 13th April, 2024.
- An intense Western Disturbance as a cyclonic circulation lies over Iran in middle & upper tropospheric westerlies. High moisture feeding from Arabian Sea is likely into Northwest India during 13th-15th April. As a result:
 - ✓ Fairly widespread to widespread light to moderate rainfall/snowfall with thunderstorm, lightning & gusty winds (30-40 kmph) over Jammu-Kashmir, Himachal Pradesh, Uttarakhand during 13th-15th April, 2024.
 - Scattered to fairly widespread rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Northwest Uttar Pradesh, Punjab and Haryana during 13th-15th April and isolated to scattered light to moderate rainfall with thunderstorm, lightning very likely over Rajasthan during 13th-15th April, 2024.
 - Isolated heavy rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13^{th-} 15th and Himachal Pradesh on 14th & 15th April, 2024.
 - Isolated hailstorm very likely over Jammu, Rajasthan on 13th; Himachal Pradesh, Punjab, Haryana on 13th & 14th and Uttarakhand & West Uttar Pradesh on 14th April.
 - ✓ **Dust storm/thundersquall** (50-60 kmph) very likely over Rajasthan on 13th April, 2024.
 - ✓ Strong surface winds (20-30 kmph) very likely to prevail over Haryana-Chandigarh-Delhi and Uttar Pradesh during 16th-18th April, 2024.
- Scattered to fairly widespread light/moderate rainfall/snowfall with isolated thunderstorm & lightning very likely over Arunachal Pradesh; isolated to scattered light to moderate rainfall with isolated thunderstorm, lightning & gusty winds over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 7 days. Isolated heavy rainfall very likely over Arunachal Pradesh and northeast Assam on 16th April, 2024.

Maximum temperature observation and forecast for next 5 days:

- Today, maximum temperatures are in the range of 40-42°C over many parts of West Rajasthan; at isolated places over Saurashtra & Kutch, Rayalaseema and Madhya Maharashtra. These are above normal by 2-4 °C over West Rajasthan.
- ✤ Fall by 3-5°C in maximum temperatures very likely over Northwest India during next 3 days.
- No significant change in maximum temperatures very likely over Central & south peninsular India during next 24 hours and gradual rise by 2-4°C during subsequent 3 days.
- Gradual fall by 2-3°C very likely over many parts of West India during next 24 hours and gradual rise by 2-4°C during subsequent 3 days.
- Gradual fall by 3-5°C very likely over many parts of East India during next 5 days.
- No significant change in maximum temperatures very likely over rest parts of the country.

Heat wave, Warm Night and Hot & Humid weather warning for next 5 days:

- Hot and humid weather very likely to prevail over Kerala & Mahe during 13th-17th; over Rayalaseema, Coastal Andhra Pradesh & Yanam during 13th-14th, Tamil Nadu, Coastal Karnataka during 14th-17th; Odisha on 14th and Konkan & Goa and Saurashtra & Kutch on 15th & 16th April, 2024.
- Heat Wave conditions likely over Odisha and Coastal Andhra Pradesh & Yanam during 15th-17th April, 2024.





Main Weather Observations:

- Rainfall distribution (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Rajasthan, West Madhya Pradesh, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): Tamil Nadu: Adiramapatinam-1.
- Yesterday, Thundersquall/gusty winds observed at isolated places over East Uttar Pradesh, Madhya Pradesh, Interior Karnataka, Madhya Maharashtra and Kerala & Mahe.
- Minimum Temperature Departures (as on 12-04-2024): Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at isolated places over East Rajasthan, Assam & Meghalaya, Madhya Maharashtra, West Madhya Pradesh, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. These were below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh, Jharkhand, Odisha and Gangetic West Bengal; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Bihar and Marathwada and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 15.5°C was reported at Sagar (East Madhya Pradesh) over the plains of the country.
- Maximum Temperature Departures (as on 12-04-2024): Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Punjab and Haryana-Chandigarh-Delhi; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; at a few places Assam & Meghalaya and at isolated places over Arunachal Pradesh, Manipur & Tripura, West Uttar Pradesh, Rajasthan, Uttarakhand and Tamil Nadu, Puducherry & Karaikal. These were markedly below normal (-5.1°C or less) at many places over Vidarbha; at a few places over Chhattisgarh and Odisha and at isolated places over East Madhya Pradesh below normal (-1.6°C to -3.0°C) at many places over West Madhya Pradesh, and Marathwada; at a few places over Telangana and at isolated places over East Uttar Pradesh, Bihar, Madhya Maharashtra and Gangetic West Bengal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.2°C was reported at Barmer (West Rajasthan) over the country.





Meteorological Analysis (Based on 0530 hours IST)

- The Western Disturbance as a cyclonic circulation over Iran between 3.1 & 9.6 km above mean sea level persists.
- The cyclonic circulation over Saurashtra & Kutch and neighbourhood extending upto 1.5 km above mean sea level persists.
- The trough/wind discontinuity from the above cyclonic circulation to South Interior Karnataka across Madhya Maharashtra & North Interior Karnataka extending upto 1.5 km above mean sea level persists.
- The cyclonic circulation over southwest Uttar Pradesh at 0.9 km above mean sea level persists.
- The cyclonic circulation over north Odisha at 1.5 km above mean sea level persists.
- The cyclonic circulation over Comorin area & neighbourhood extending upto 1.5 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 20th April, 2024)

- Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- Thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam and Rayalaseema during 13th-14th April, 2024.
- ✤ Fall by 3-5°C in maximum temperatures very likely over Northwest India during next 3 days.
- No significant change in maximum temperatures very likely over Central & south peninsular India during next 24 hours and gradual rise by 2-4°C during subsequent 3 days.
- Gradual fall by 2-3°C very likely over many parts of West India during next 24 hours and gradual rise by 2-4°C during subsequent 3 days.
- ✤ Gradual fall by 3-5°C very likely over many parts of East India during next 5 days.
- No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 20th-22st April, 2024)

- Isolated to scattered light/moderate rainfall/snowfall likely over Northeast India and Western Himalayan Region.
- Isolated light rainfall likely over plains of south Peninsular India.
- Dry weather likely to prevail over rest parts of the country.





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Table-1

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

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)



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Arabian Sea

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Fig. 1: Maximum Temperatures

Max. Temp

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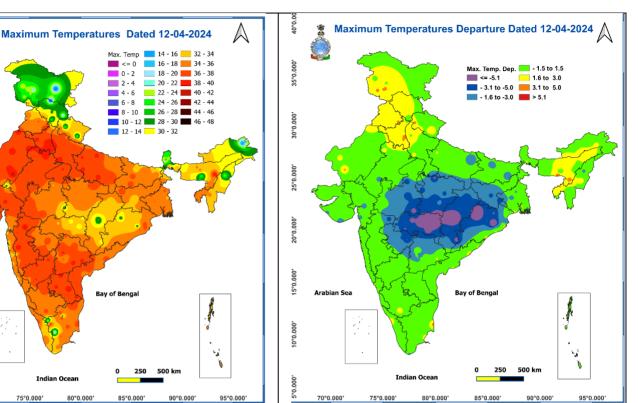


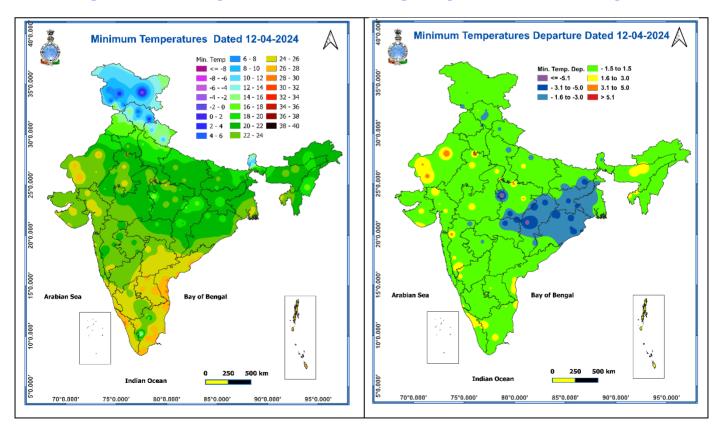
Fig. 3: Minimum Temperatures

80°0.000'

Indian Ocear

75°0.000'

Fig. 4: Departure of Minimum Temperatures



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Fig. 2: Departure of Maximum Temperatures

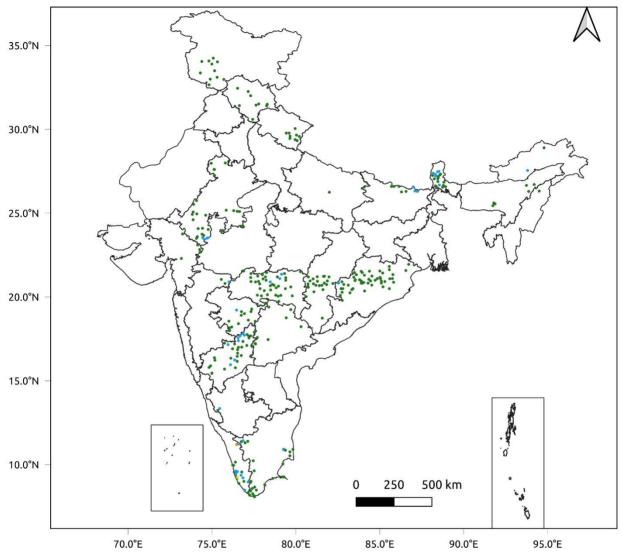




Fig. 5: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 11-4-2024 to 0830 IST of 12-4-2024



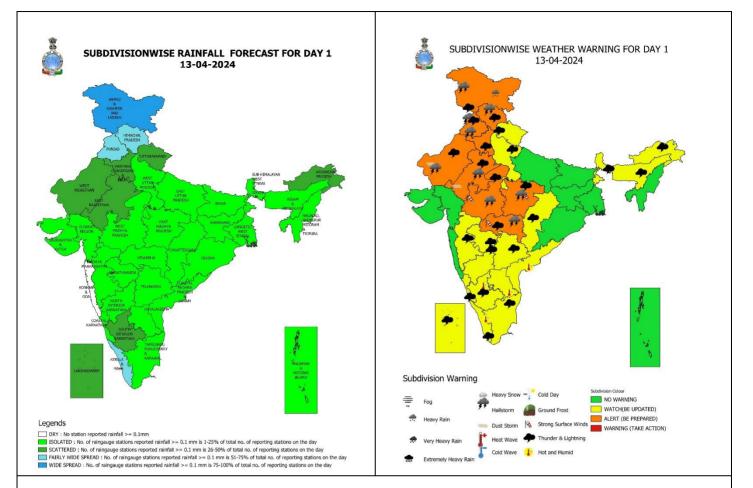
Legends

- 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)





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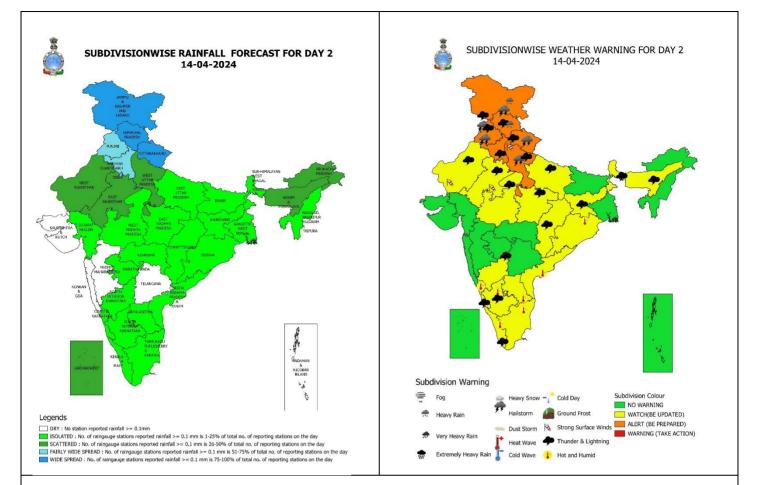
13 April (Day 1):

- Thunderstorm/Duststorm accompanied with lightning & squall (speed reaching 50-60 kmph) & hailstorm very likely at isolated places over Rajasthan.
- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)& hailstorm very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh, Madhya Pradesh and Vidarbha; with lightning, gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Telangana, North & South Interior Karnataka, Kerala & Mahe and Lakshadweep; with lightning at isolated places over Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.
- Heavy rainfall/snowfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- Hot and humid weather very likely to prevail over Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe.
- Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph very likely to prevail over Comorin area, along and off south Kerala coast, Gulf of Mannar; with wind speed 45 kmph to 55 kmph gusting to 65 kmph prevail along and off Oman coast. Fishermen are advised not to venture into these areas.





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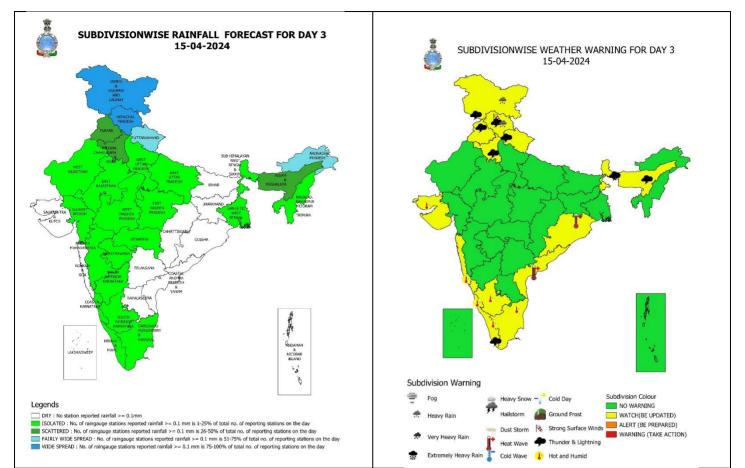
14 April (Day 2):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh, West Uttar Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan; with lightning, gusty winds (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh, Madhya Pradesh, Jharkhand, Assam & Meghalaya and Interior Karnataka; with lightning at isolated places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and Coastal Karnataka.
- Heavy rainfall/snowfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- Hot and humid weather very likely to prevail over Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph very likely to prevail along and off Oman coast. Fishermen are advised not to venture into these areas.





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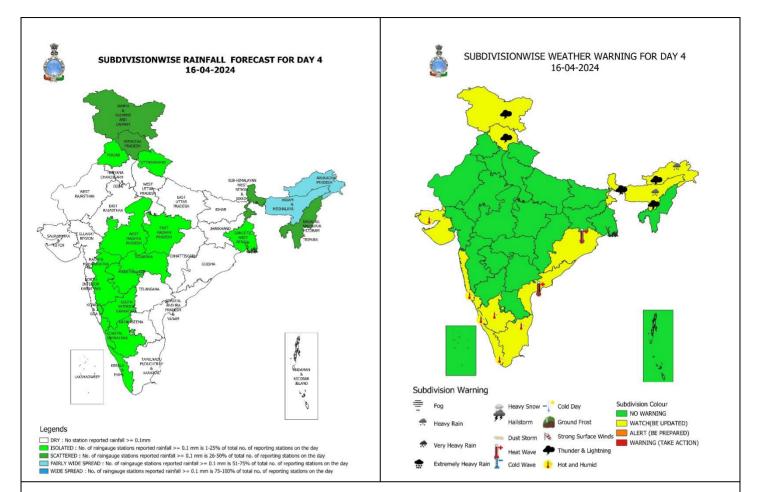
15 April (Day 3):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh, Assam & Meghalaya; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe.
- Heavy rainfall/snowfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- Hot and humid weather likely to prevail over Coastal & South Interior Karnataka, Konkan & Goa, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Heat wave likely to prevail in isolated pockets over Odisha and Coastal Andhra Pradesh & Yanam.





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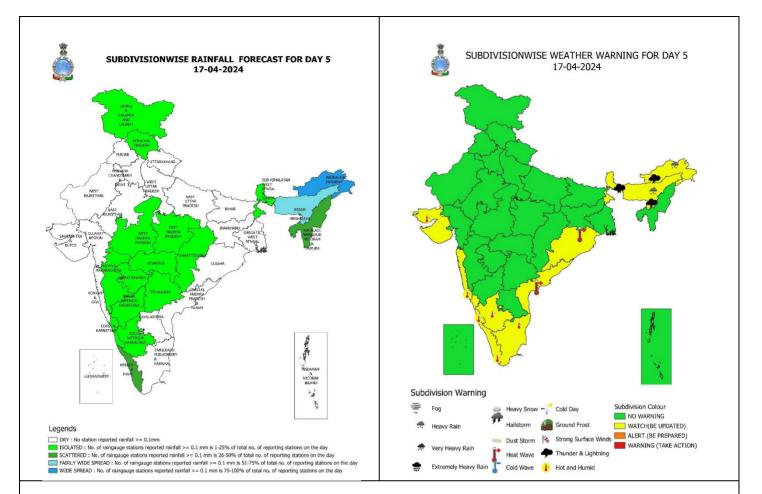
16 April (Day 4):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Himachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Arunachal Pradesh.
- Heavy rainfall/snowfall likely at isolated places over Arunachal Pradesh; Heavy rainfall at isolated places over Assam & Meghalaya.
- Hot and humid weather likely to prevail over Coastal & South Interior Karnataka, Konkan & Goa, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Heat wave likely to prevail in isolated pockets over Odisha and Coastal Andhra Pradesh & Yanam.





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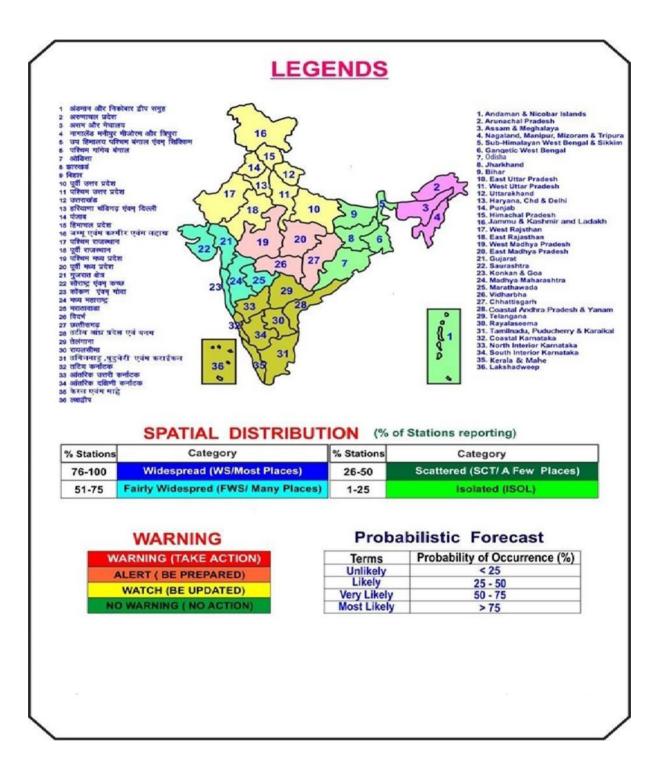


17 April (Day 5):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim.
- Heavy rainfall/snowfall likely at isolated places over Arunachal Pradesh; Heavy rainfall at isolated places over Assam & Meghalaya.
- Hot and humid weather likely to prevail over Coastal & South Interior Karnataka, Konkan & Goa, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- **Heat wave** likely to prevail in isolated pockets over Odisha and Coastal Andhra Pradesh & Yanam.











	WARNING	Probal	pilistic Forecast				
	WARNING	-	x				
	WARNING (TAKE ACTION)	Terms Unlikely	Probability of Occurrence (%) < 25				
	ALERT (BE PREPARED) WATCH (BE UPDATED)	Likely	25 - 50				
	NO WARNING (NO ACTION)	Very Likely Most Likely	50 - 75				
- 10		WOST LIKELY	> 75				
	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm*						
ain/ Snow *	Extremely Heavy: > 204.4 mm/cm *						
	When maximum temperature of a stati (a) Based on Departure from normal Heat Wave: Maximum Temperature Departu	re from normal 4.59	^o C to 6.4° C.				
<u> </u> +	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C						
Heat Wave	(b). Based on Actual maximum temperature						
	Heat Wave: When actual maximum tempera Severe Heat Wave: When actual maximum						
	(c). Criteria for heat wave for coastal s When maximum temperature departure is >4. temperature ≥37°C	stations	eat Wave may be described provided maxim				
1.	When maximum temperature remains						
arm Night	Warm Night: When minimum temperature de Severe Warm Night: When minimum tempe	1					
	Severe warm Night. when minimum tempe	rature departure >0	.4 0.				
	When minimum temperature of a sta (a). Based on departure Cold Wave: Minimum Temperature Departur						
0	Severe Cold Wave: Minimum Temperature Departure						
-							
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only) Cold Wave : When Minimum Temperature is ≤ 4.0 °C						
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C						
	(c) For Coastal Stations						
	When Minimum Temperature departure is ≤	-4.5 °C & actual M	Ainimum Temperature is ≤ 15 °C				
	When minimum temperature of a stati	ion ≤10°C for pla	ains and ≤0°C for hilly regions				
] -	Based on departure	f	01.0100				
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C. Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C						
	Severe Cold Day. Maximum remperature D		ai 2 -0.5 C				
_	Phenomenon of small droplets su	-	and the horizontal visibility < 1k				
Ø	Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50- 200 metres						
Fog	Very Dense Fog: when the visibility < 50 me						
			ight (Lightning) and a charp rumbling				
<i>F</i> nunderstorm	Sudden electrical discharges manifest sound (thunder)	ed by a flash of I	ight (Lightning) and a sharp runbing				
hunderstorm Dust/Sand Storm	Sudden electrical discharges manifest sound (thunder) An ensemble of particles of dust or sa turbulent wind.						
Dust/Sand	sound (thunder) An ensemble of particles of dust or sa						
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind.						
Dust/Sand	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground [Air temperature ≤4°C (over Plains)	nd energetically	lifted to great heights by a strong and				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground [Air temperature ≤4°C (over Plains) A strong wind that rises sudden!	nd energetically	lifted to great heights by a strong and				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly Moderate: Wind speed 52-61 kmph	nd energetically	lifted to great heights by a strong and				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground [Air temperature ≤4°C (over Plains) A strong wind that rises sudden!! [Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-87 kmph	nd energetically	lifted to great heights by a strong and				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground [Air temperature ≤4°C (over Plains) A strong wind that rises sudden!y Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph	nd energetically y, lasts for atle	lifted to great heights by a strong and				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-67 kmph Very Severe: Wind speed >87 kmph Effect of various waves in the sea over	nd energetically y, lasts for atle	lifted to great heights by a strong and				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph Effect of various waves in the sea over Rough to very rough: Wind speed 41-62 km	nd energetically y, lasts for atle er specific area mph (22-33 knots) 8	lifted to great heights by a strong and east 1 minute.				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-67 kmph Very Severe: Wind speed >87 kmph Effect of various waves in the sea over	nd energetically y, lasts for atle r specific area nph (22-33 knots) & W	lifted to great heights by a strong and past 1 minute.				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground [Air temperature ≤4°C (over Plains) A strong wind that rises sudden!] Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed 527 kmph Effect of various waves in the sea over Rough to very rough: Wind speed 41-62 kr High to very high: Wind speed 5117 kmph (>63 H	nd energetically y, lasts for atle r specific area mph (22-33 knots) & h (34-63 knots) & W snots) & Wave heigt	lifted to great heights by a strong and past 1 minute.				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-67 kmph Very Severe: Wind speed 52-87 kmph Effect of various waves in the sea over Rough to very rough: Wind speed 41-62 kr High to very high: Wind speed 53-117 kmpf Phenomenal: Wind speed 51-17 kmph (>63 H	nd energetically y, lasts for atle y, lasts for atle pr specific area mph (22-33 knots) & W ((34-63 knots) & W (anots) & Wave heig! 14-47 knots)	lifted to great heights by a strong and east 1 minute.				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-67 kmph Very Severe: Wind speed 52-87 kmph Effect of various waves in the sea over Rough to very rough: Wind speed 41-62 km High to very high: Wind speed 53-117 kmpt Phenomenal: Wind speed 51-17 kmpt (>63 J Cyclonic Storm: Wind speed 62-87 kmph (3) Severe Cyclonic Storm: Wind speed 88-11	nd energetically y, lasts for atle pr specific area mph (22-33 knots) & W 1 (34-63 knots) & W knots) & Wave heigi 14-47 knots) 7 kmph (48-63 knot	lifted to great heights by a strong and east 1 minute.				
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or sa turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-67 kmph Very Severe: Wind speed 52-87 kmph Effect of various waves in the sea over Rough to very rough: Wind speed 41-62 kr High to very high: Wind speed 53-117 kmpf Phenomenal: Wind speed 51-17 kmph (>63 H	nd energetically y, lasts for atle mph (22-33 knots) & (34-63 knots) & W knots) & Wave heig! (4-47 knots) 7 kmph (48-63 knot 118-165 kmph (64 -	lifted to great heights by a strong and past 1 minute.				