

Isolated heavy to very heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal and over Kerala & Mahe

Minimum temperature very likely to be below normal over most parts of Northwest India during next 4-5 days

Cold Day/Severe Cold Day conditions likely at some parts of Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Uttarakhand

Cold Wave/Severe Cold Wave conditions at some parts also very likely over Punjab, Haryana, Chandigarh & Delhi and in isolated parts over Uttar Pradesh, north Madhya Pradesh and Rajasthan

Dense to very dense fog conditions at isolated places very likely over Northwest India during next 4-5 days

Posted On: 12 JAN 2021 1:32PM by PIB Delhi

According to the National Weather Forecasting Centre of the India Meteorological Department (IMD):

Significant Weather Features

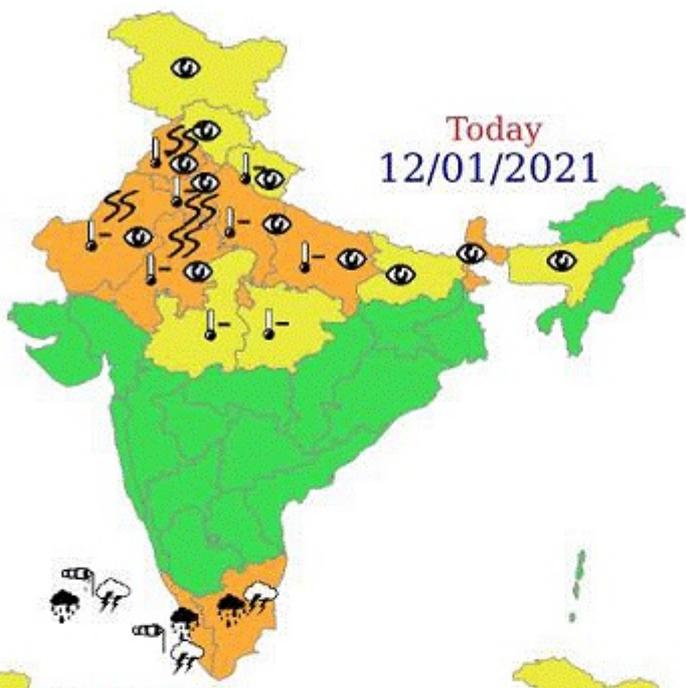
◆ Under the influence of the cyclonic circulation over Comorin area & neighbourhood in lower tropospheric levels, **fairly widespread to widespread rainfall with isolated heavy falls and moderate thunderstorm & lightning very likely over Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Lakshadweep** during next 2-3 days and significant decrease in rainfall activity over these regions thereafter. Isolated **heavy to very heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal on 12th & 13th and over Kerala

& Mahe on 12th January, 2021.

◆ Due to the prevalence of dry north/northwesterly winds, **minimum temperature very likely to be below normal over most parts of Northwest India** during next 4-5 days which are very **likely to cause Cold Day/Severe Cold Day** conditions at some parts of Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Uttarakhand during next 3 days. **Cold Wave/Severe Cold Wave conditions** at some parts also very likely over Punjab, Haryana, Chandigarh & Delhi and in isolated parts over Uttar Pradesh, north Madhya Pradesh and Rajasthan during next 3 days. **Ground Frost** is also very likely in isolated pockets over south Punjab, Haryana & Chandigarh and north Rajasthan during next 2 days.

◆ **Dense to very dense fog** conditions at isolated places very likely over Northwest India during next 4-5 days.

Weather Warning during next 5 days:



LEGENDS

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



Rain/ Snow *
Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm *
Extremely Heavy: > 204.4 mm/cm *



When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
(a) Based on Departure from normal

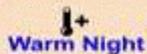
Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $>4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
Severe Warm Night: When minimum temperature departure $>6.4^{\circ}\text{C}$.



When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.
(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\geq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ or actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50- 200 metres
Very Dense Fog: when the visibility < 50 metres



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed >87 kmph



Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre



Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed >220 kmph (>119 knots)

Please [click here for details of weather:](#)

Please [click here for impact based weather warning details:](#)

Kindly download **MAUSAM APP** for location specific forecast & warning, **MEGHDOOT APP** for Agromet advisory and **DAMINI APP** for Lightning Warning & visit state MC/RMC websites for district wise warning.

NB/KGS/(IMD inputs)

(Release ID: 1687885)