

All India Impact Based Weather Warning Bulletin

Monday 31 May 2021 Time of Issue: 1630 hours IST

(EVENING)

31 May (Day 1): ◆ Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Madhya Pradesh, Vidarbha; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Rajasthan, Punjab and Haryana, Chandigarh & Delhi; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and with lightning at isolated places over Chhattisgarh, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal.

- ♦ Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan.
- ♦ Heavy to Very Heavy Rainfall with extremely heavy falls at isolated places very likely over Assam & Meghalaya; heavy to very heavy rainfall at isolated places over Arunachal Pradesh and Heavy Rainfall at isolated places over Bihar, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ♦ Strong Wind (wind speed 40-50 gusting to 60 kmph) very likely over Eastcentral, Northwest, Southwest Arabian Sea, Comorin area, south Sri Lanka Coast. Squally Weather (wind speed 40-50 kmph) very likely along & off Kerala coast and Lakshadweep area. Fishermen are advised not to venture into these areas.

01 June (Day 2): ◆ Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Vidarbha; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Rajasthan, Punjab and Haryana, Chandigarh & Delhi; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Uttar Pradesh, Bihar, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh, West Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Telangana, Rayalaseema, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

- ◆ Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan.
- ♦ Heavy to Very Heavy Rainfall at isolated places very likely over Assam & Meghalaya and Heavy Rainfall at isolated places over Odisha, Konkan & Goa, Telangana, Interior Karnataka, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ♦ **Strong Wind** (wind speed 40-50 gusting to 60 kmph) very likely over Eastcentral, Northwest, Southwest Arabian Sea. **Squally Weather** (wind speed 40-50 kmph) very likely along & off Kerala coast and Lakshadweep area. **Fishermen** are advised not to venture into these areas.

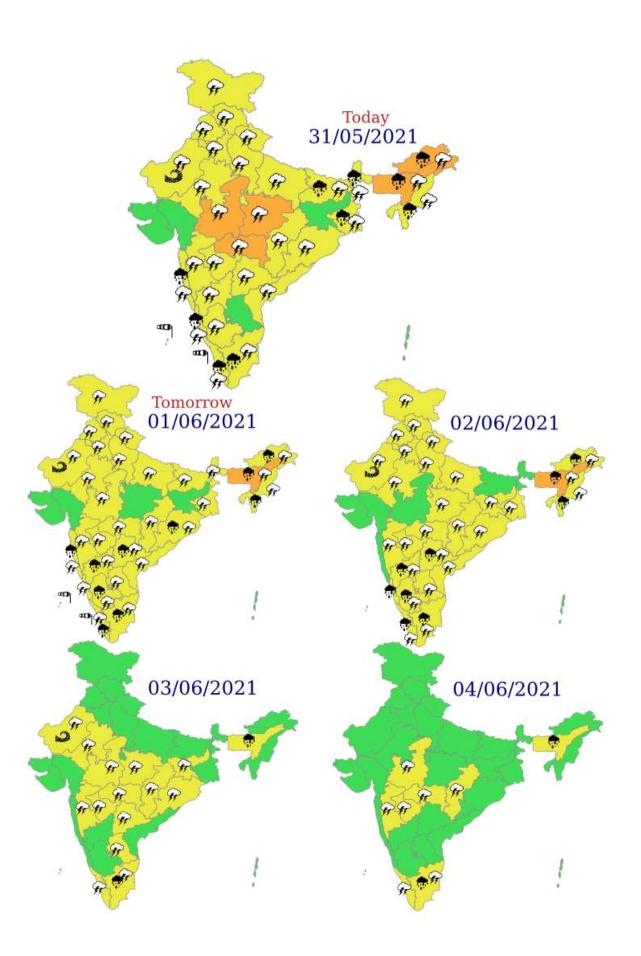
राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

- **02** June (Day 3): ◆ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Jharkhand, Madhya Maharashtra, Marathwada, North Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ♦ Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over West Rajasthan.
- ♦ Heavy to Very Heavy Rainfall at isolated places very likely over Assam & Meghalaya and Heavy Rainfall at isolated places over Telangana, Karnataka, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ◆ **Strong Wind** (wind speed 40-50 gusting to 60 kmph) very likely over Northwest, Southwest Arabian Sea. **Fishermen** are advised not to venture into these areas.
- **03** June (Day 4): ◆ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Odisha, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- ♦ Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Rajasthan.
- ◆ Heavy Rainfall at isolated places likely over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal.
- ♦ **Strong Wind** (wind speed 40-50 gusting to 60 kmph) likely over Southwest Arabian Sea. **Fishermen** are advised not to venture into these areas.
- **04 June (Day 5): ◆ Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph)** likely at isolated places over Kerala & Mahe and **with lightning** at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ♦ Heavy Rainfall at isolated places likely over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal.
- ◆ Strong Wind (wind speed 40-50 gusting to 60 kmph) likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.







Impact based warning & Action suggested for areas likely to be affected Impact based warning & Action suggested for areas likely to be affected

ISOLATED HEAVY TO VERY HEAVY RAINFALL WITH EXTREMELY HEAVY FALLS LIKELY OVER MEGHALAYA ON 31ST MAY; HEAVY TO VERY HEAVY RAINFALL OVER ASSAM & MEGHALAYA DURING NEXT 5 DAYS; OVER ARUNACHAL PRADESH DURING NEXT 3 DAYS.

A. Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Mudslides(for plain areas) and Landslides (for hill and vulnerable areas)
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.



Impact expected and action suggested due to Thunderstorm with lightning/hail/gusty winds over Madhya Pradesh on 31st May and over Vidarbha on 31st May & 01st June.

A. Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

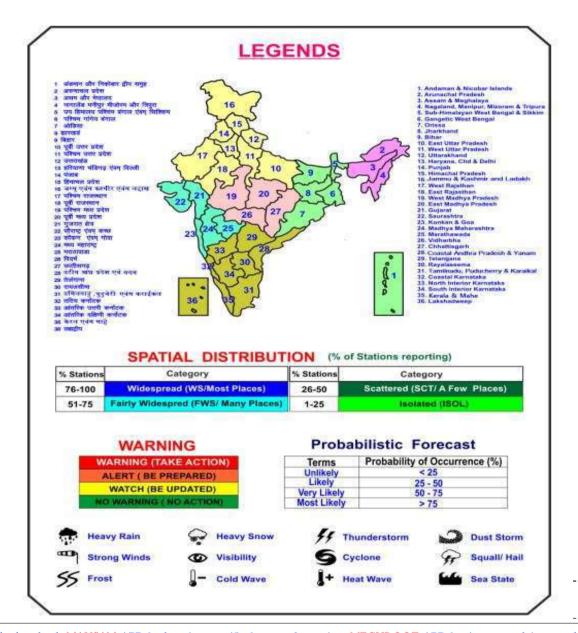
B. Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- > Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.
- > Farming operations may be suspended during the event.



	(LEGENDS)
	WARNING Probabilistic Forecast
	WARNING (TAKE ACTION) ALERT (BE PREPARED) Terms Unlikely < 25
	WATCH (BE UPDATED) NO WARNING (NO ACTION) 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 *
§+ Heat Wave	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly region
	(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 ≥6.5° C (b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
+ Warm Night	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 °C.
ẫ− Cold Wave	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -5.4 °C. Severe Cold Wave: Minimum Temperature Departure from normal ≥ -6.5 °C
	(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 or actual Minimum Temperature is ≤ 15 °C
ij- Cold Day	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions
	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
Fog	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km 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
## hunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
55	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
Squall	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
66	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
Sea State	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
24%	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
	Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
9	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)





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.