



## All India Impact Based Weather Warning Bulletin

Friday 03 December 2021  
Time of Issue: 0830 hours IST

### (MORNING)

**03 December (Day 1):** ♦ **Heavy to very heavy rainfall** very likely at isolated places over north Coastal Andhra Pradesh and south Odisha.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Gale winds** speed reaching 65-75 kmph gusting to 85 kmph likely to prevail over central Bay of Bengal from the morning of 3rd December. Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to commence along & off North Andhra Pradesh–Odisha coasts from the mid-night of 3rd December. **Sea condition** would be High over central Bay of Bengal on 3rd December and rough to very rough over along & off North Andhra Pradesh–Odisha coast from the mid-night of 3rd December.

**04 December (Day 2):** ♦ **Heavy to very heavy rainfall** with **extremely heavy falls** very likely at isolated places over Odisha; **heavy to very heavy rainfall** at a few places over north Coastal Andhra Pradesh and at isolated places over Gangetic West Bengal and **heavy rainfall** at isolated places over Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Gangetic West Bengal and **with lightning** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Gale winds** speed reaching 90-100 kmph gusting to 110 kmph over northwest & adjoining west-central Bay of Bengal and increase gradually becoming 70-80 kmph gusting to 90 kmph from 4th morning for the subsequent 12 hours. Squally wind speed reaching 45-55 kmph gusting to 65 kmph also likely to commence along & off West Bengal coast from 4th December morning and become Gale wind speed reaching 60-70 kmph gusting to 80 kmph from the evening of 4th December for the subsequent 12 hours. Sea condition will be High to very High over west-central & northwest Bay of Bengal from the early morning of 4th December for the subsequent 24 hours and High to very High from 4th Afternoon, for the subsequent 12 hours. It will be very rough to High along & off West Bengal coast from 4th morning and High to very High from the same evening for the subsequent 12 hours.

**05 December (Day 3):** ♦ **Heavy to very heavy rainfall** likely at isolated places over north Odisha and Gangetic West Bengal and **heavy rainfall** likely at isolated places over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning & gusty wind (speed reaching 40-50 kmph)** likely at isolated places over Gangetic West Bengal and **with lightning** at isolated places over Punjab, Haryana, Chandigarh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

**06 December (Day 4):** ♦ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and **heavy rainfall** likely at isolated places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

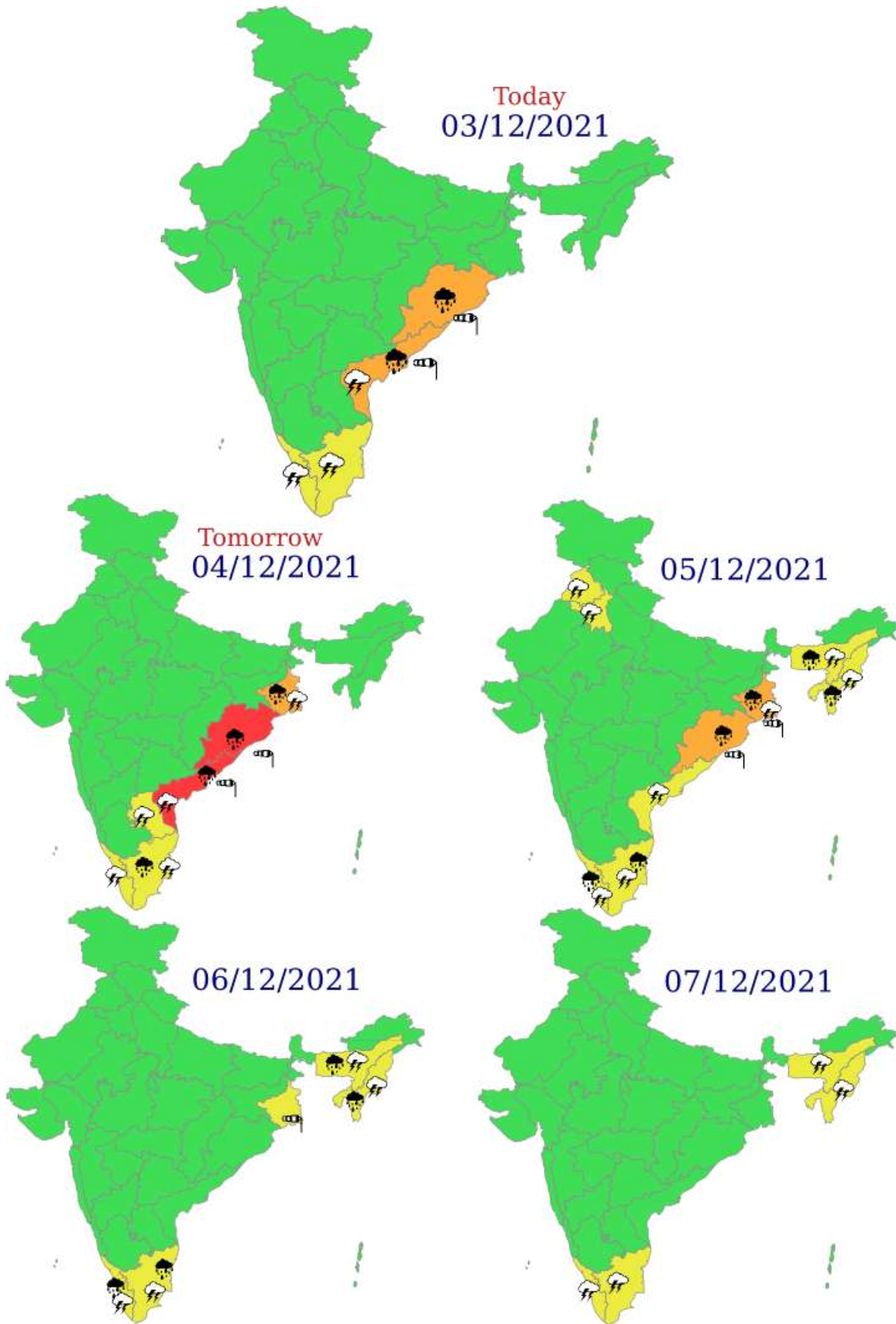
**07 December (Day 5):** ♦ **Thunderstorm accompanied with lightning** likely at isolated places over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

\* Red color warning does not mean "Red Alert" Red color 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 [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

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## **EXPECTED IMPACT & ACTION SUGGESTED due to;**

- I. Isolated Extremely Heavy Rainfall over Odisha on 04th December;**
- II. Very Heavy Rainfall over north Coastal Andhra Pradesh on 03<sup>rd</sup> & 4<sup>th</sup> December; over Gangetic West Bengal 04<sup>th</sup> & 05<sup>th</sup> and Odisha on 03<sup>rd</sup> & 05<sup>th</sup> December, 2021.**

### **A. Impact Expected**

- **Localized Flooding of roads, inundation and water logging in low lying areas and closure of underpasses mainly in urban areas of the affected 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 Landslides/Mudslides**
- **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.**
- **Harvest the ripen crops like Paddy & Horticultural crops and also secure the harvested crops securely from the damage due to rain and strong winds.**

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## 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

	<p><b>Rain/ Snow *</b></p> <p>Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: &gt; 204.4 mm/cm *</p>
	<p>When maximum temperature of a station reaches <math>\geq 40^{\circ}\text{C}</math> for plains and <math>\geq 30^{\circ}\text{C}</math> for hilly regions</p> <p>(a) Based on Departure from normal Heat Wave: Maximum Temperature Departure from normal <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>. Severe Heat Wave: Maximum Temperature Departure from normal <math>\geq 6.5^{\circ}\text{C}</math></p> <p>(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature <math>\geq 45^{\circ}\text{C}</math>. Severe Heat Wave: When actual maximum temperature <math>\geq 47^{\circ}\text{C}</math></p> <p>( c ). Criteria for heat wave for coastal stations When maximum temperature departure is <math>&gt;4.5^{\circ}\text{C}</math> from normal. Heat Wave may be described provided maximum temperature <math>\geq 37^{\circ}\text{C}</math></p>
	<p>When maximum temperature remains <math>40^{\circ}\text{C}</math></p> <p>Warm Night: When minimum temperature departure <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>. Severe Warm Night: When minimum temperature departure <math>&gt;6.4^{\circ}\text{C}</math>.</p>
	<p>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions.</p> <p>(a). Based on departure Cold Wave: Minimum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>. Severe Cold Wave: Minimum Temperature Departure from normal <math>\geq -6.5^{\circ}\text{C}</math></p> <p>(b) Based on actual Minimum Temperature (for Plains only) Cold Wave : When Minimum Temperature is <math>\leq 4.0^{\circ}\text{C}</math> Severe Cold Wave: When Minimum Temperature is <math>\leq 2.0^{\circ}\text{C}</math></p> <p>( c ) For Coastal Stations When Minimum Temperature departure is <math>\leq -4.5^{\circ}\text{C}</math> or actual Minimum Temperature is <math>\leq 15^{\circ}\text{C}</math></p>
	<p>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions</p> <p>Based on departure Cold Day: Maximum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>. Severe Cold Day: Maximum Temperature Departure from normal <math>\leq -6.5^{\circ}\text{C}</math></p>
	<p>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></p> <p>Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility <math>&lt; 50</math> metres</p>
	<p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
	<p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
	<p>Ice deposits on ground Air temperature <math>\leq 4^{\circ}\text{C}</math> ( over Plains)</p>
	<p>A strong wind that rises suddenly, lasts for atleast 1 minute.</p> <p>Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed <math>&gt;87</math> kmph</p>
	<p>Effect of various waves in the sea over specific area</p> <p>Rough to very rough: Wind speed 41-62 kmph (22-33 knots) &amp; Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph ( 34-63 knots) &amp; Wave height 6-14 metre Phenomenal: Wind speed <math>&gt;117</math> kmph (<math>&gt;63</math> knots) &amp; Wave height <math>&gt;14</math> metre</p>
	<p>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 <math>&gt;220</math> kmph (<math>&gt;119</math> knots)</p>

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.

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