



2025-12-16

Time of Issue: 08:10:00 hours IST (Morning)

### ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

**Significant Weather Features** 

### Weather Forecast and Warnings

- Light rainfall/snowfall at few/isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th -21st and over Himachal Pradesh during 20th &21st and Uttarakhand on 21st December.
- Thunderstorm and lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal on 16th & 17th with gusty winds with speed reaching upto 30-40 kmph very likely at isolated places over Andaman & Nicobar Islands during 16th - 18th December.

#### Forecast of minimum temperatures:

- Gradual fall in minimum temperature likely by about 2°C over Northwest India during next 24 hour and thereafter gradual rise by about 2-3°C during subsequent 5 days.
- No significant change in minimum temperature very likely over Gujarat state during next 24 hours and thereafter rise by 2-3°C during subsequent 4 days.
- No significant change in minimum temperature over Maharashtra as well as Central, East and North east part
  of India during next 7 days.

#### Dense Fog & Cold wave Warnings:

- Dense fog conditions very likely to prevail during early hours/morning hours in isolated pockets of Northeast India during 16th-20th, Himachal Pradesh during 16th-18th, Punjab, Haryana Chandigarh & Delhi on 16th & 17th December.
- Dense fog conditions very likely to prevail during early hours/morning hours in isolated pockets of Uttar Pradesh on 16th & 17th and Madhya Pradesh during 16th -18th with very dense fog over Uttar Pradesh on 16<sup>th</sup> and Madhya Pradesh on 16<sup>th</sup> & 17<sup>th</sup> December.



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#### **Main Weather Observations:**

- ❖ Rainfall distribution (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Tamilnadu Puducherry & Karaikal; Dry over rest of the country.
- ♦ Fog Condition Observed (at 0530 hours of today): Dense fog conditions: at most places over West Uttar Pradesh Moderate fog conditions: at a few places over East Madhya Pradesh, at isolated places over Bihar Shallow fog conditions: at most places over East Uttar Pradesh, at a few places over Bihar and Punjab, at isolated places over Assam & Meghalaya, Odisha, West Madhya Pradesh and Coastal Andhra Pradesh & Yanam
- ♦ Visibility reported (at 0530 hours of today): West Uttar Pradesh: Bareilly (dist Bareilly) & Lucknow (dist Lucknow) 50.0 Each; East Madhya Pradesh: Satna (dist Satna) 200.0; Bihar: Purnea (dist Purnia) 200.0;.
- \* Minimum Temperature Departures (as on 15-12-2025): below normal(-1.6°C to -3.0°C) at few places over Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Telangana, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka; at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Bihar, East Uttar Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe. appreciably below normal(-5.0°C to -3.1°C) at few places over Odisha, Vidarbha, Chhattisgarh, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka and Kerala & Mahe; at isolated places over Assam & Meghalaya, West Madhya Pradesh, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana and Tamil Nadu, Puducherry & Karaikal. markedly below normal(< -5.0°C) at few places over Gangetic West Bengal, Odisha, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and South Interior Karnataka; at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Jharkhand, Bihar, East Uttar Pradesh, Himachal Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. The lowest minimum temperature of 5.4°C is reported at RAJGARH-OBS (MADHYA PRADESH) over the Plains of India
- **♦ Maximum Temperature Departures (as on 15-12-2025): The highest maximum temperature** of 35.2°C is reported at KOTTAYAM (KERALA).



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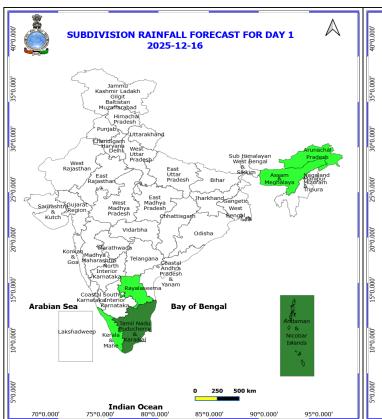
### Meteorological Analysis (Based on 0530 hours IST)

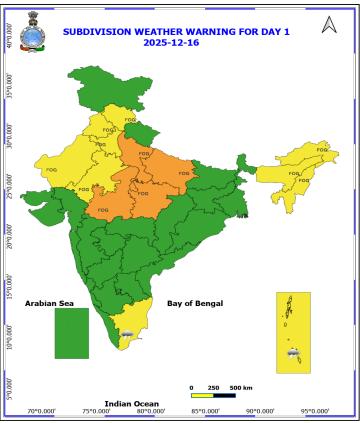
- The **Western Disturbance** as an upper air cyclonic circulation over north Pakistan & neighbourhood at 3.1 km above mean sea level persists.
- The another **Western Disturbance** as a **trough** in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 65°E to the north of Lat. 32°N.
- An upper air cyclonic circulation over west Assam and neighbourhood at 3.1 km above mean sea level.
- Subtropical westerly Jet Stream with core winds of the order upto 120 knots at 12.6 km above mean sea level prevails over North India.
- The **upper air cyclonic circulation** over south Tamil Nadu and neighbourhood at 3.1 km above mean sea level persists.
- A fresh feeble Western Disturbance is likely to affect western Himalayan region from the night of 17<sup>th</sup> December 2025.

#### **Weather Outlook for subsequent 3 days**

• Isolated to Scattered rainfall activity over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Hiamchal Pradesh, Kerala, Tamil Nadu and Islands.



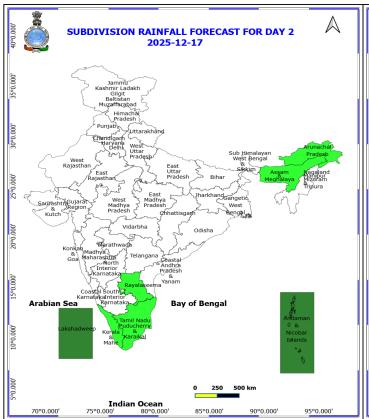


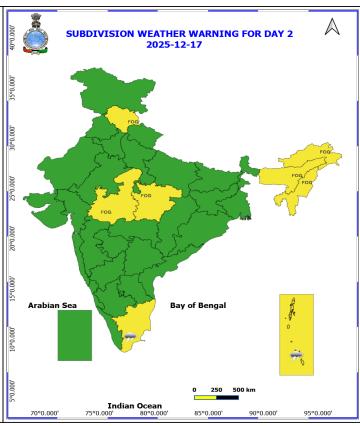


### 16 December (Day 1)

- ❖ Thunderstorm accompanied with lightning & gusty winds(30-40kmph) very likely at isolated places over Andaman & Nicobar Islands.
- ❖ Thunderstorm accompanied with Lightning very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
  - Dense to Very **Dense Fog** very likely at isolated pockets over Uttar Pradesh and north Madhya Pradesh.
- ♦ Dense Fog very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Haryana, Chandigarh & Delhi, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Punjab and north Rajasthan.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar & adjoining Comorin area.



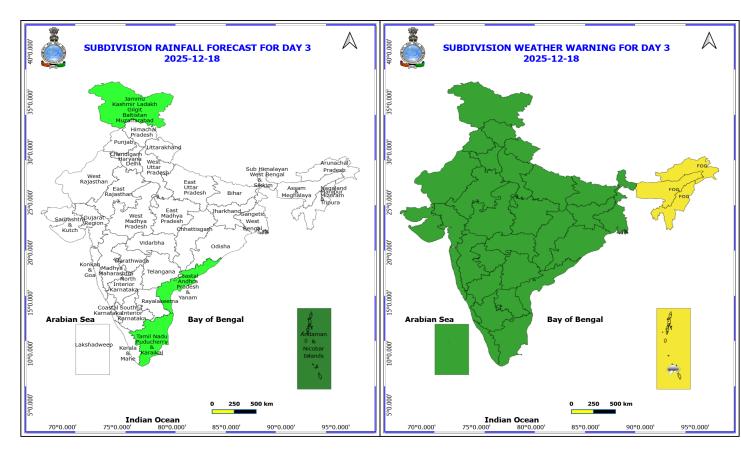




### 17 December (Day 2)

- ❖ Thunderstorm accompanied with lightning & gusty winds(30-40kmph) very likely at isolated places over Andaman & Nicobar Islands.
- ❖ Thunderstorm accompanied with Lightning very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ♦ Dense Fog very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Himachal Pradesh, Madhya Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar & adjoining Comorin area.



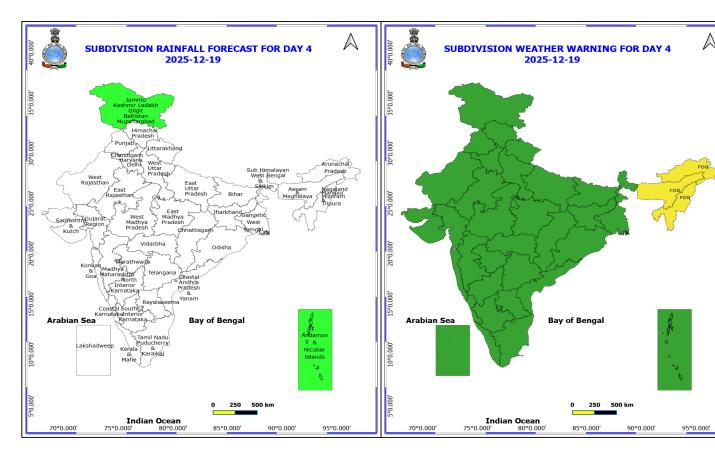


### 18 December (Day 3)

- ❖ Thunderstorm accompanied with lightning & gusty winds(30-40kmph) very likely at isolated places over Andaman & Nicobar Islands.
- ♦ Dense Fog very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar & adjoining Comorin area.



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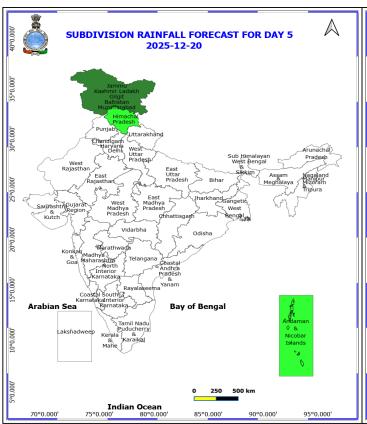


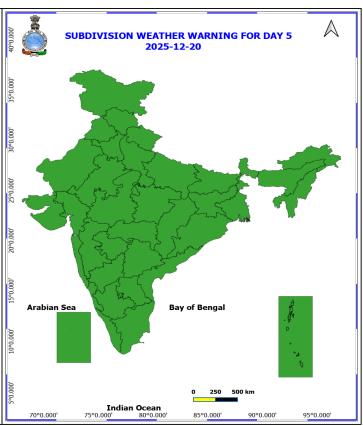
### 19 December (Day 4)

- ♦ Dense Fog likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar & adjoining Comorin area.



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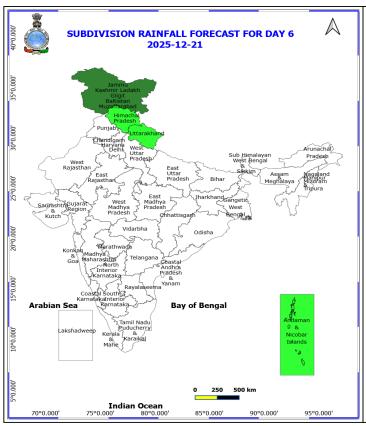
20 December (Day 5)

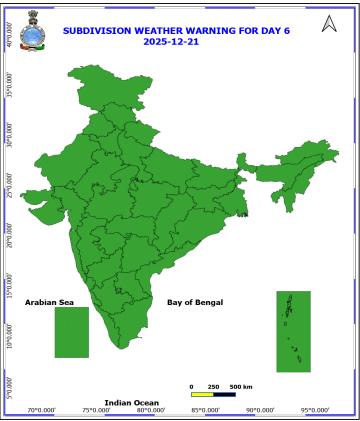
No Warning

**No Warning** 



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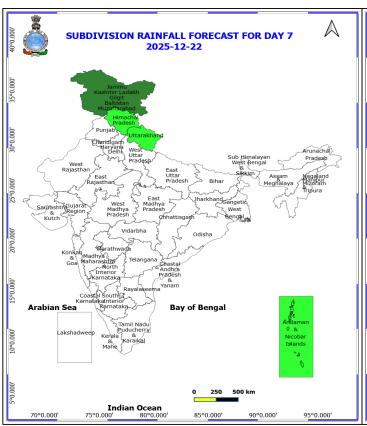
21 December (Day 6)

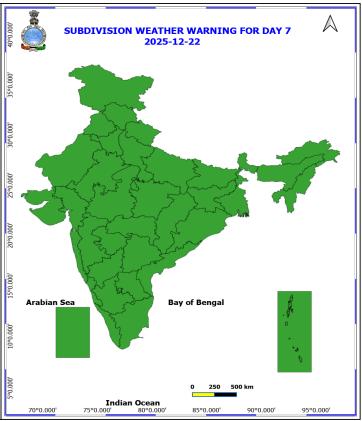
No Warning

No Fishermen Warning



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22 December (Day 7)

No Warning

No Fishermen Warning



# Table-1

7 Day	ys Rai	nfall	For	ecast

S.No.	Subdivision	16-	17-	18-	19-	20-	21-	22-
		Dec						
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
	ASSAM & MEHGHALAYA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY						
5	S.H. WEST BENGAL & SIKKIM	DRY						
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	ISOL	ISOL	SCT	SCT	SCT
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY						
24	MADHYA MAHARASHTRA	DRY						
25	MARATHWADA	DRY						
26	VIDARBHA	DRY						
27	CHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
29	TELANGANA	DRY						
30	RAYALASEEMA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
32	COSTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	DRY						
35	KERALA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
36	LAKSHDWEEP	DRY	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

Fig. 1: Maximum Temperatures Dated 2025-12-15

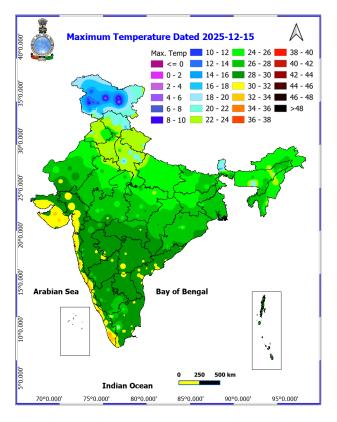


Fig. 3: Minimum Temperatures Dated 2025-12-15

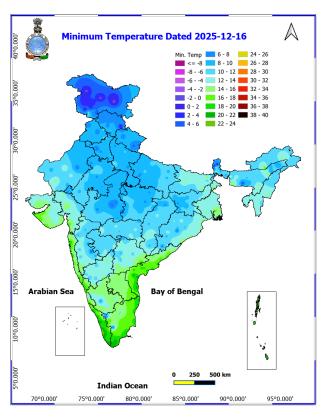


Fig. 2: Departure of Maximum Temp. Dated 2025-12-15

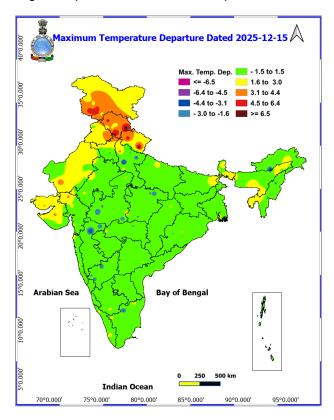
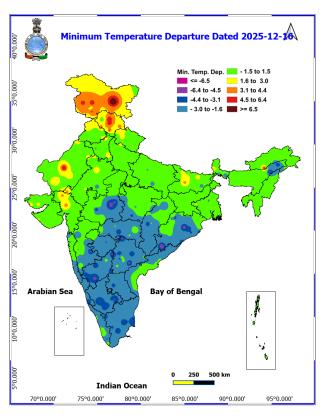
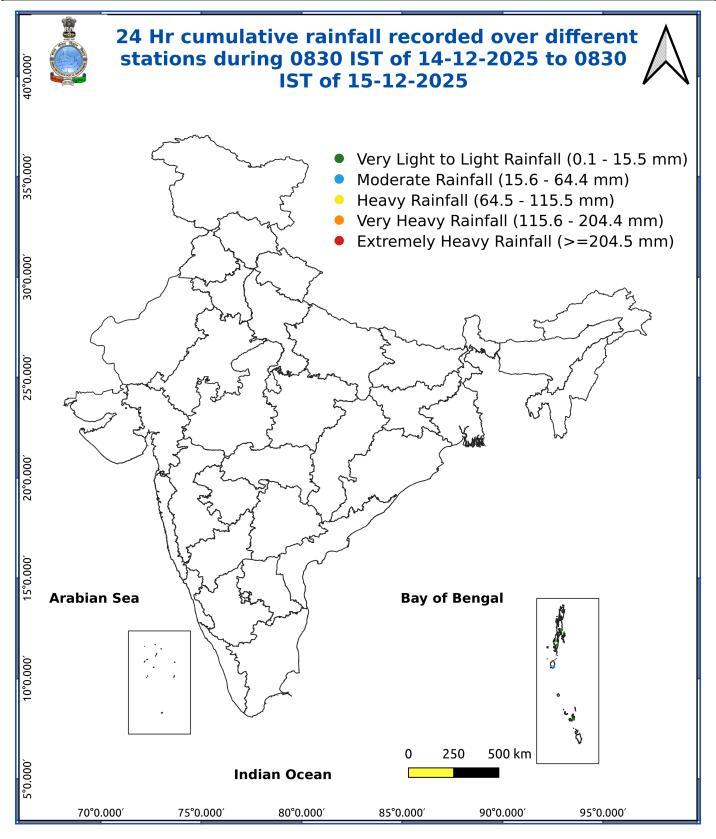


Fig. 4: Departure of Minimum Temp. Dated 2025-12-15









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Impact expected due to dense/very dense fog in the early hours/morning hours: likely to prevail during early hours/morning hours in isolated pockets of Uttar Pradesh on 16th & 17th and Madhya Pradesh during 16th -18th, Northeast India during 16th-20th, Himachal Pradesh during 16th-18th, Punjab, Haryana Chandigarh & Delhi on 16th & 17th December.

#### **♦**Transport and Aviation:

- May affect some airports, highways and railway routes in the areas of met-sub-division.
- Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.

#### Power Sector::

· Chances of Tripping of Power lines in the very dense fog routes

#### **Human Health:**

- Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
- Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
- Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

### Action suggested:

#### Transport and Aviation:

- Be careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines, railways and state transport for schedule of your journey.

### **❖** Power Sector:

- To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.

### Agromet advisories for various parts of the country

### Agromet advisories for likely impact of Cold Waves / below normal Temperatures

• In Interior Karnataka and Telangana, apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

### **Livestock / Poultry**

- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

#### Agromet advisories for likely impact of Thunderstorm / Gusty Winds Over Andaman & Nicobar Islands

Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants /

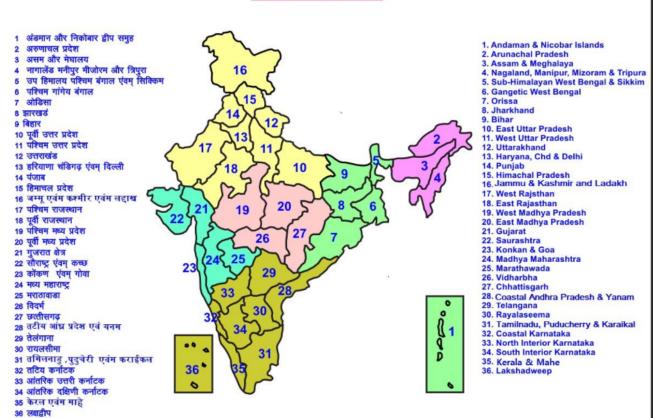


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fruit-bearing plants to avoid lodging due to strong winds.







## 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)

### Subdivision Colour

NO WARNING

WATCH (BE UPDATED)

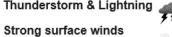
ALERT (BE PREPARED TO TAKE ACTION

Probability of Occurrence (%) Terms < 25 Unlikely Likely 25 - 50Very Likely 50 - 75Most Likely > 75

Probabilistic Forecast

## WARNING (TAKE ACTION)

Heavy Rain Thunderstorm & Lightning









Extremely Heavy Rain 🗼 Heavy Snow





Hot Day



Dust Raising Winds Warm Night





**Ground Frost** 



FOG FOG



		EGENDS	
	WARNING	Probabilistic Forecas	st
	WARNING (TAKE ACTION)	Terms Probability of Occurre	nce (%)
	ALERT ( BE PREPARED)	Unlikely < 25 Likely 25 - 50	
	WATCH (BE UPDATED)	Very Likely 50 - 75	
	NO WARNING ( NO ACTION)	Most Likely > 75	
./ 💭	Heavy: 64.5 to 115.5 mm/cm *		
in/ Snow	Very Heavy: 115.6 to 204.4 mm/cm*  Extremely Heavy: > 204.4 mm/cm *		
iiii onow			0 C f L
	(a) Based on Departure from norma	tation reaches  ≥40° C  for plains and  ≥30 al	o tor n
	Heat Wave: Maximum Temperature Dep	arture from normal 4.5° C to 6.4° C.	
Î+	Severe Heat Wave: Maximum Temperat		
eat Wave	(b). Based on Actual maximum tem	•	
iout maro	Heat Wave: When actual maximum temp Severe Heat Wave: When actual maxim		
	(c). Criteria for heat wave for coast		
	When maximum temperature departure is	>4.5°C from normal. Heat Wave may be describe	d provide
	temperature ≥37°C		
Ĵ+	When maximum temperature rema Warm Night: When minimum temperature		
Varm Night	Severe Warm Night: When minimum temperatur		
		station ≤10°C for plains and ≤0°C for h	illy regi
	(a). Based on departure  Cold Wave: Minimum Temperature Depart	urture from normal A 5 9C to 6 4 9C	
	Severe Cold Wave: Minimum Temperature Depa		
J-	(b) Based on actual Minimum Tem		
Cold Wave	Cold Wave : When Minimum Temperatur		
	Severe Cold Wave: When Minimum Ter	nperature is ≤ 2.0 °C	
	( c) For Coastal Stations		
	When Minimum Temperature departure	is ≤-4.5 °C & actual Minimum Temperature is ≤	15 °C
		tation ≤10°C for plains and ≤0°C for hilly	regions
<b> </b> -	Based on departure  Cold Day: Maximum Temperature Depar	ture from normal -4.5 °C to -6.4 °C	
Cold Day	Severe Cold Day: Maximum Temperatur		
	Pharaman of annul decide		! - !!- !!!
<b>A</b>	Moderate Fog: When the visibility between	suspended in air and the horizontal	VISIDIII
•	Dense Fog: when the visibility between		
Fog	Very Dense Fog: when the visibility < 50	metres	
7.			
75	Sudden electrical discharges manif sound (thunder)	ested by a flash of light (Lightning) and a	sharp r
nunderstorm	(		
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understorm	An annumble of continuous states	and annualisable life of the count but the	h
Dust/Sand	An ensemble of particles of dust or turbulent wind.	sand energetically lifted to great heights	by a str
		sand energetically lifted to great heights	by a str
Dust/Sand		sand energetically lifted to great heights	by a str
Dust/Sand Storm	turbulent wind.	sand energetically lifted to great heights	by a str
Dust/Sand	lce deposits on ground [Air temperature ≤4°C ( over Plains)		by a str
Dust/Sand Storm	lce deposits on ground [Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde	sand energetically lifted to great heights l	by a str
Dust/Sand Storm	lce deposits on ground [Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde [Moderate: Wind speed 52-61 kmph]		by a str
Dust/Sand Storm	lce deposits on ground [Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde		by a sti
Dust/Sand Storm  Frost	lce deposits on ground Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph	enly, lasts for atleast 1 minute.	by a str
Dust/Sand Storm  Frost	Ice deposits on ground  Air temperature ≤4°C (over Plains)  A strong wind that rises sudde  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	enly, lasts for atleast 1 minute.	by a str
Dust/Sand Storm  Frost  Squall	Ice deposits on ground  Air temperature ≤4°C (over Plains)  A strong wind that rises sudde  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  Rough to very rough: Wind speed 41-6	enly, lasts for atleast 1 minute.	by a sti
Dust/Sand Storm  Frost	Ice deposits on ground  Air temperature ≤4°C (over Plains)  A strong wind that rises sudde  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  Rough to very rough: Wind speed 41-6	enly, lasts for atleast 1 minute.  over specific area 2 kmph (22-33 knots) & Wave height 2.5-6 metre mph ( 34-63 knots) & Wave height 6-14 metre	by a str
Dust/Sand Storm  Frost  Squall	Lice deposits on ground  Air temperature \$4°C ( over Plains)  A strong wind that rises sudded 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 Rough to very rough: Wind speed 41-64 High to very high: Wind speed 63-117 kmph (>90 kmph wind speed >117 kmph wind speed >117 kmph (>90 kmph wind speed >117 kmph wind speed >117 kmph (>90 kmph wind speed >117	enly, lasts for atleast 1 minute.  over specific area 2 kmph (22-33 knots) & Wave height 2.5-6 metre mph ( 34-63 knots) & Wave height 6-14 metre 63 knots) & Wave height >14 metre	by a str
Dust/Sand Storm  Frost  Squall	turbulent wind.  Ice deposits on ground  Air temperature ≤4°C ( over Plains)  A strong wind that rises sudde  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  Rough to very rough: Wind speed 41-6  High to very high: Wind speed 63-117 k	enly, lasts for atleast 1 minute.  over specific area 2 kmph (22-33 knots) & Wave height 2.5-6 metre mph ( 34-63 knots) & Wave height 6-14 metre 63 knots) & Wave height >14 metre h (34-47 knots)	by a str
Dust/Sand Storm  Frost  Squall	Ice deposits on ground  Air temperature \$4°C ( over Plains)  A strong wind that rises sudded 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 Rough to very rough: Wind speed 63-117 kmph (>Phenomenal: Wind speed >117 kmph (>Cyclonic Storm: Wind speed 62-87 kmph	enly, lasts for atleast 1 minute.  over specific area 2 kmph (22-33 knots) & Wave height 2.5-6 metre mph ( 34-63 knots) & Wave height 6-14 metre 63 knots) & Wave height >14 metre  th (34-47 knots) 3-117 kmph (48-63 knots) seed 118-165 kmph (64 - 89 knots)	by a str