

2026-02-23

Time of Issue: 13:19:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Systems, Forecast and Warnings

- Fairly widespread to widespread light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Andaman & Nicobar Islands during 23<sup>rd</sup>-25<sup>th</sup> February.
- **Isolated to scattered** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Madhya Pradesh, Vidarbha, Chhattisgarh on 23<sup>rd</sup>; Odisha on 23<sup>rd</sup> & 24<sup>th</sup>; Gangetic West Bengal & Jharkhand on 24<sup>th</sup>; with **thunderstorm & lightning** likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Telangana on 23<sup>rd</sup> & 24<sup>th</sup>; Gangetic West Bengal, Jharkhand, Arunachal Pradesh, Nagaland, Kerala & Mahe, Lakshadweep, Interior Karnataka, Coastal Andhra Pradesh & Yanam on 23<sup>rd</sup>; Madhya Pradesh, Vidarbha, Chhattisgarh on 24<sup>th</sup> & 25<sup>th</sup> February.
- Isolated **light** rainfall/snowfall likely over Himachal Pradesh and Uttarakhand on 23<sup>rd</sup> and isolated rainfall over East Rajasthan & West Uttar Pradesh on 23<sup>rd</sup> February.
- Isolated **light** rainfall/snowfall likely over Jammu-Kashmir, Himachal Pradesh and Uttarakhand during 26<sup>th</sup>-28<sup>th</sup> February.

#### Dense Fog Warnings:

- **Dense fog conditions** likely during morning hours in isolated pockets over Punjab till 24<sup>th</sup> February.

#### Forecast of maximum temperatures:

- Gradual rise in maximum temperature by 2-3°C likely over Northwest India during next 4 days and no significant change during subsequent 3 days.
- Gradual fall in maximum temperature by about 2°C likely over Vidarbha & Chhattisgarh during next 3 days and gradual rise by 2-3°C during subsequent 4 days.
- No significant change in maximum temperature likely over Maharashtra during next 24 hours and gradual rise by 2-3°C during subsequent 6 days.
- Gradual fall in maximum temperature by 2-3°C likely over Gujarat State during next 24 hours and no significant change during subsequent 6 days.
- No significant change in maximum temperatures likely over rest parts of the country.

\*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

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### Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Andaman & Nicobar Islands and Kerala & Mahe; **at isolated places** over Sub Himalayan West Bengal & Sikkim, Uttarakhand, Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Marathwada, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and North Interior Karnataka; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Kerala & Mahe:** Vadakara (dist Kozhikode) 7; Vadakara AWS (dist Kozhikode) 6; Varkala (dist Thiruvananthapuram) 5; Kunnankulam (dist Thrissur), Kozhikode (dist Kozhikode) 4 Each; Thiruvananthapuram (dist Thiruvananthapuram), Chavara AWS (dist Kollam) 3 Each; Aryankavu (dist Kollam), Karipur Ap. (dist Malappuram), Airport Chakka ARG (dist Thiruvananthapuram), Ranni AWS (dist Pathanamthitta), Palode AWS (dist Thiruvananthapuram) 2 Each; Kurudamannil (dist Pathanamthitta), Enamakal (dist Thrissur), Trivandrum AP (dist Thiruvananthapuram), Mannarkkad (dist Palakkad), Kollam Rly (dist Kollam), Punalur (dist Kollam), Konni (dist Pathanamthitta), Nilambur AWS (dist Malappuram), Malampuzha Dam AWS (dist Palakkad), Mannarkkad AWS (dist Palakkad), Pirappancode AWS (dist Thiruvananthapuram) 1 Each; **Telangana:** Pitlam (dist Kamareddy) 2; Adilabad (dist Adilabad), Jukkal (dist Kamareddy), Talamadugu (dist Adilabad), Tamsi (dist Adilabad), Jainoor (dist Kumaram Bheem), Sirpuru (dist Kumaram Bheem) 1 Each; **Coastal Andhra Pradesh & Yanam:** Seethanagaram (dist Parvathipuram Manyam) 2; **Andaman & Nicobar Islands:** Hut Bay (dist South Andaman) 2; **Rayalaseema:** Satyavedu (dist Tirupati) 1; **Sub Himalayan West Bengal & Sikkim:** Singhik (dist Mangan), Mangan (dist Mangan) 1 Each; **Vidarbha:** Bhandara (dist Bhandara), Nagpur Aerodrome (dist Nagpur) 1 Each; **Marathwada:** Chakur (dist Latur), Udgir - IMD Parttime (dist Latur) 1 Each; **Uttarakhand:** Munsiyari (dist Pithoragarh), Sama (dist Bageshwar) 1 Each.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy rain** at isolated places over Kerala & Mahe.

- **Heavy rainfall** has been recorded at isolated places over Kerala.
- **Hailstorm** activity has been recorded at isolated places over Telangana.
- **Dense to very Dense fog(visibility <50 m)** conditions prevailed in isolated pockets over Punjab; **Dense fog (visibility 50-199 m)** conditions in isolated pockets over Odisha.
- **Visibility Reported (In Meters <200 m): Punjab:** Amritsar 0 m; **Odisha:** Chandbali (50-199m).

- ❖ **Minimum Temperature Departures (as on 23-02-2026): below normal(-1.6°C to -3.0°C)** at few places over South Interior Karnataka; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Bihar, Himachal Pradesh, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Konkan & Goa, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **appreciably below normal(-5.0°C to -3.1°C)** at few places over East Madhya Pradesh and Rayalaseema; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Odisha, West Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **markedly below normal(< -5.0°C)** at isolated places over Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Bihar, East Uttar Pradesh, Himachal Pradesh, West Madhya Pradesh, East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal. **The lowest minimum temperature** of 9.6°C is reported at **Bathinda (Punjab) & Adampur IAF (Punjab)** over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 22-02-2026): The highest maximum temperature** of 37.0°C is reported at NANDIGAMA (ANDHRA PRADESH), KURNOOL (ANDHRA PRADESH), and MADURAI (A) (TAMIL NADU).

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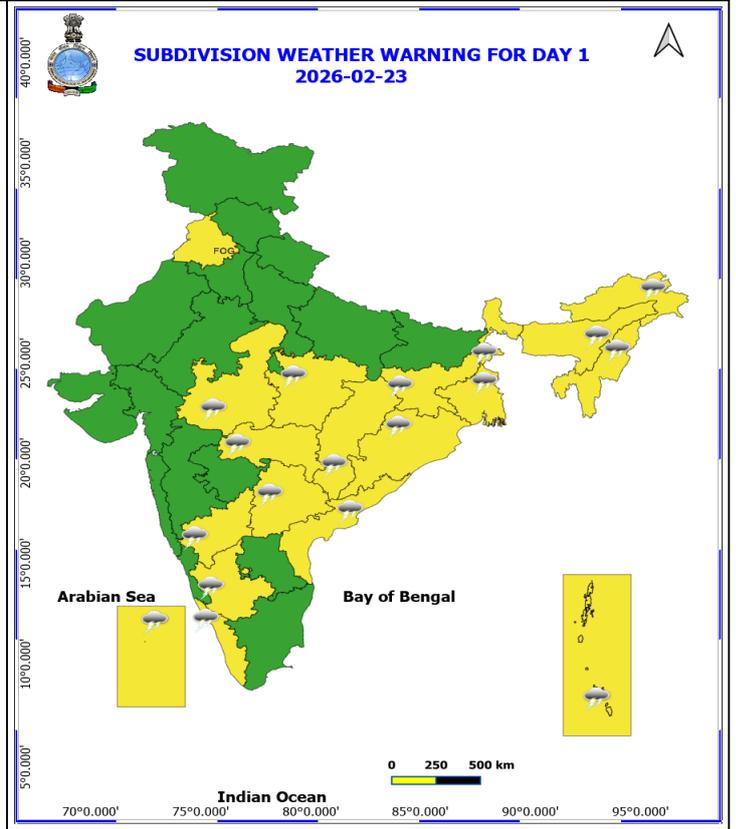
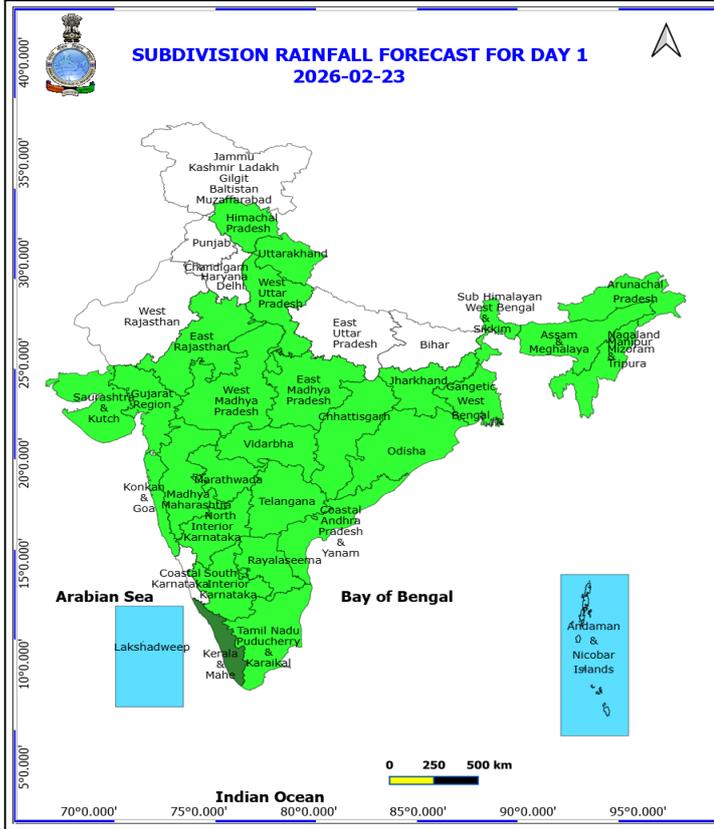
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### Meteorological Analysis (Based on 0830 hours IST)

- The **low pressure area** over southwest and adjoining areas of central Bay of Bengal persisted over the same region at 0830 hrs IST of today, the 23<sup>rd</sup> February, 2026. The associated cyclonic circulation extends upto 5.8 km above mean sea level. It is very likely to continue to move nearly northeastwards and weaken gradually during next 24 hrs.
- The **upper air cyclonic circulation** over west Assam & neighbourhood now lies over central assam & neighbourhood and extends upto 1.5 km above mean sea level.
- A **trough** runs from northwest Uttar Pradesh to north Gujarat across central Rajasthan at 3.1 km above mean sea level.
- A **trough** runs from Gangetic West Bengal to north Coastal Andhra Pradesh across Odisha at 0.9 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 100 knots at 12.6 km above mean sea level continues to prevail over Northeast India.
- The **upper air cyclonic circulation** over southeast Arabian sea off south Kerala coast extending upto 1.5 km above mean sea level persists.
- A **trough** runs from South Interior Karnataka to Marathwada at 0.9 km above mean sea level.
- A fresh feeble **Western Disturbance** is likely to affect western Himalayan region from 26<sup>th</sup> February, 2026.
- The **upper air cyclonic circulation** over Uttarakhand and neighbourhood extending upto 1.5 km above mean sea level has become less marked.
- The feeble **trough** from Kashmir to Ladakh at 3.1 km above mean sea level has become less marked.
- The **trough** in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 94°E to the north of Lat. 25°N has become less marked.

### Weather Outlook for subsequent 3 days

- Isolated to Scattered rainfall activity likely over Western himalayan region, Kerala & Mahe, Arunachal Pradesh and Lakshadweep.



### 23 February (Day 1)

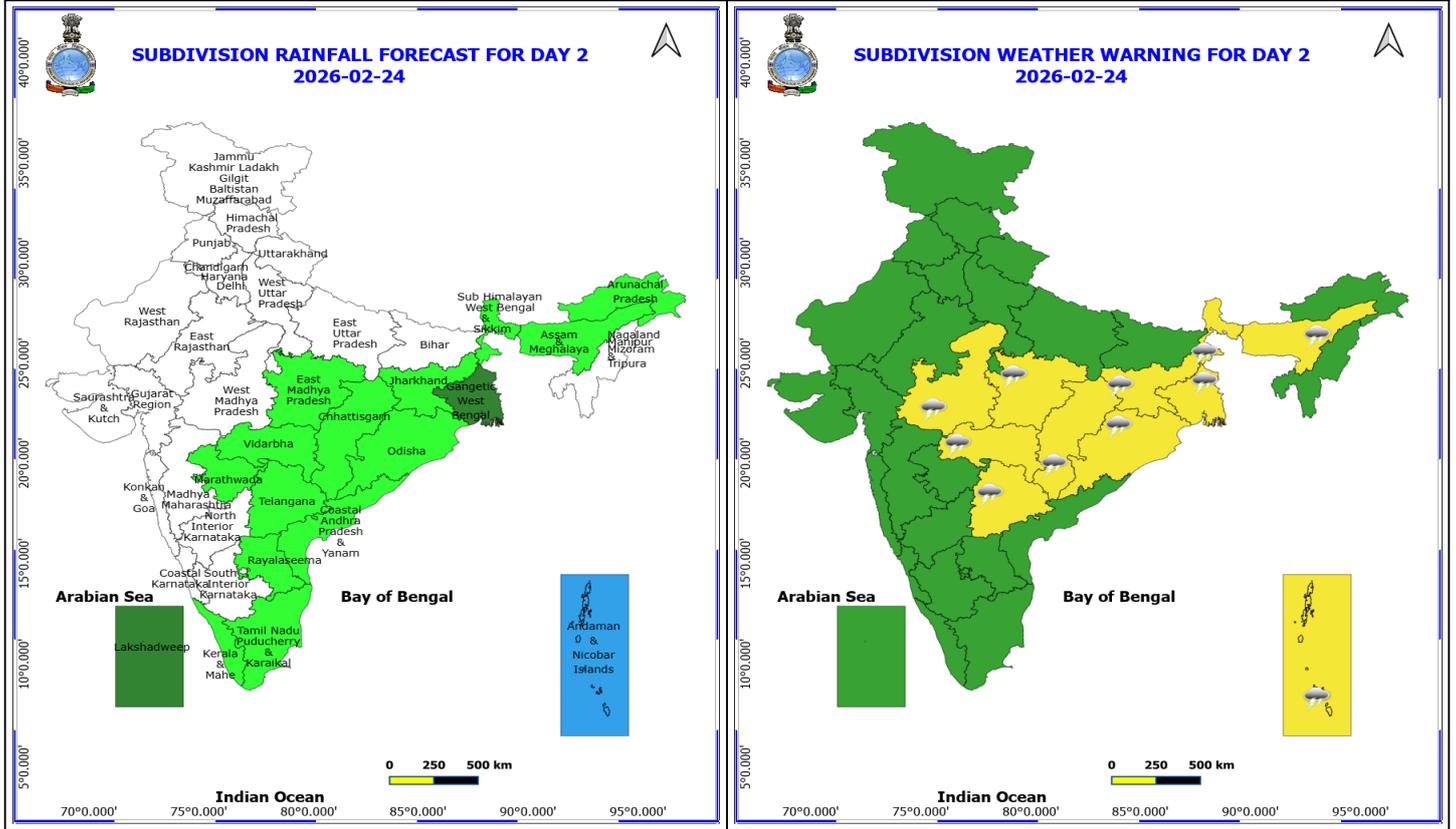
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Chhattisgarh, Madhya Pradesh, Odisha and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh, Interior Karnataka, Jharkhand, Kerala & Mahe, Lakshadweep, Nagaland, Manipur, Mizoram and Tripura, Telangana and West Bengal & Sikkim.
- ❖ **Dense Fog** very likely at isolated places over Punjab.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over many parts of southwest Bay of Bengal adjoining Southeast Bay of Bengal, and adjoining Sri Lanka coasts.

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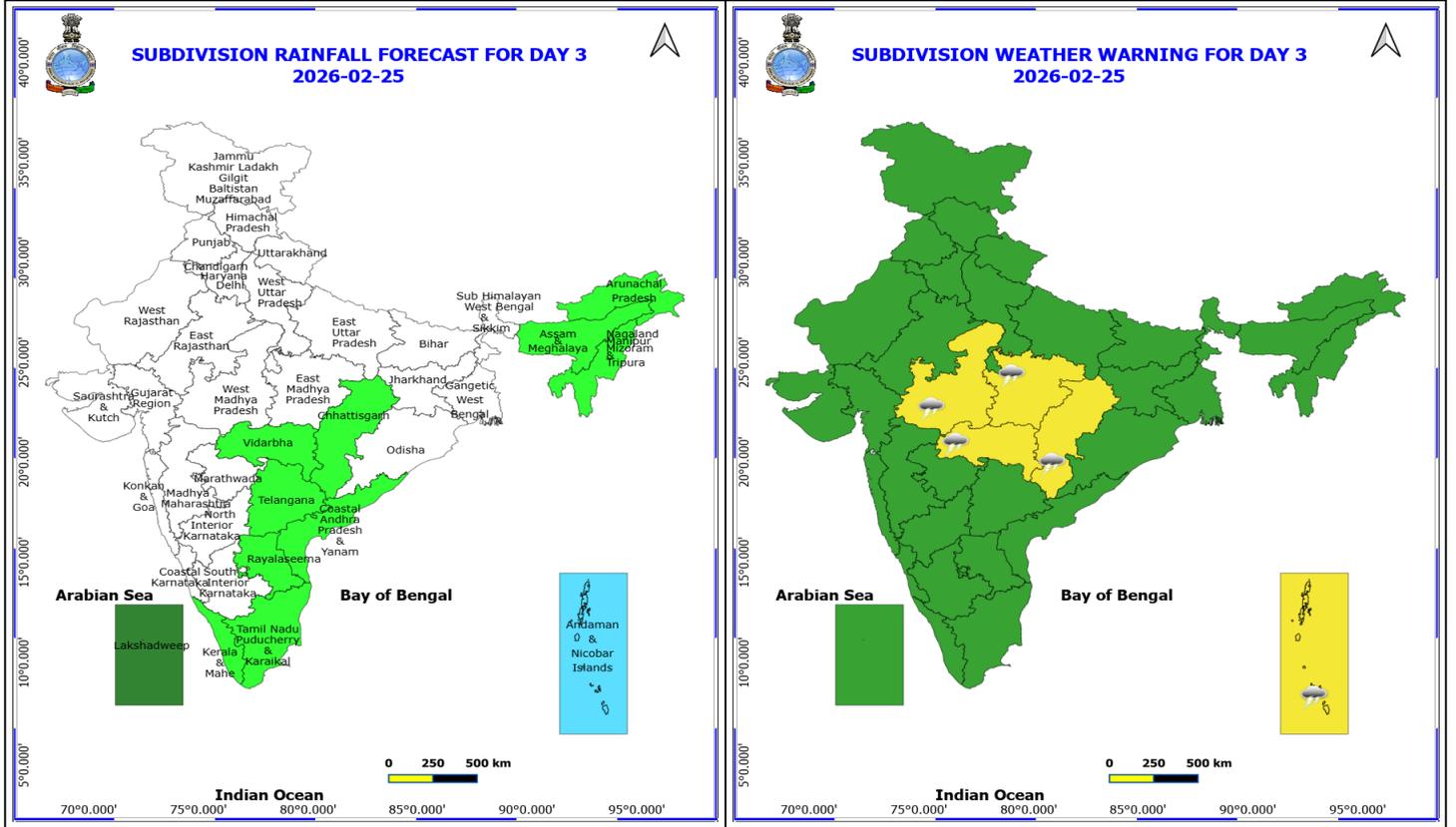
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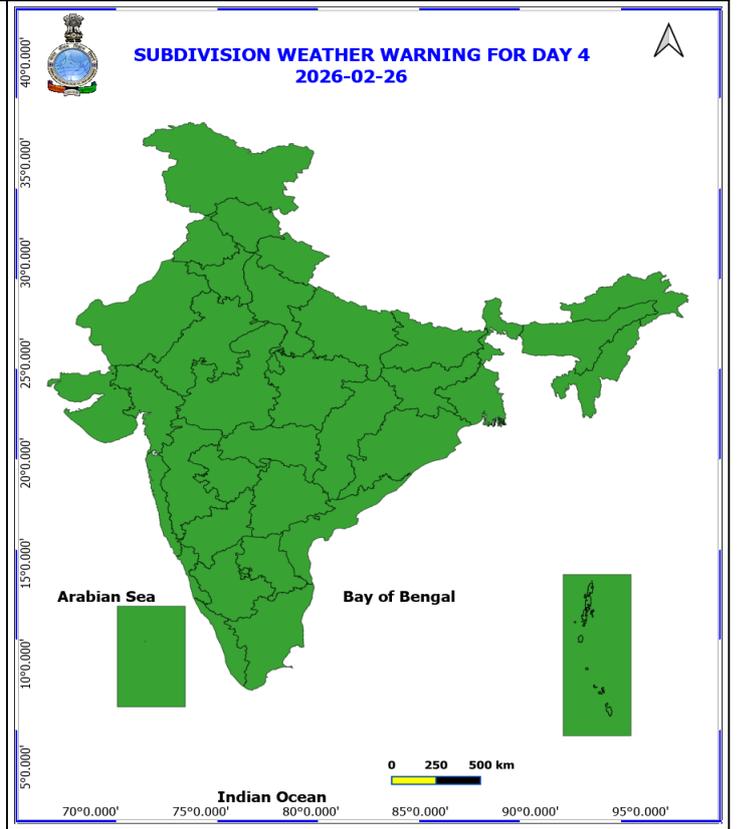
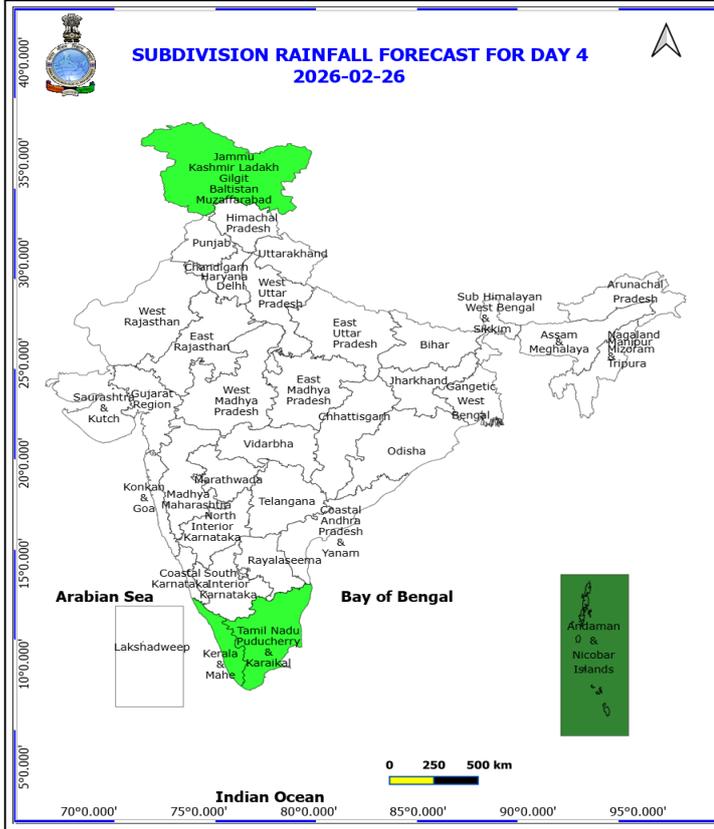
**24 February (Day 2)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Chhattisgarh, Madhya Pradesh, Sub Himalayan West Bengal & Sikkim, Telangana and Vidarbha.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** likely to prevail over central parts of south adjoining central Bay of Bengal.



**25 February (Day 3)**

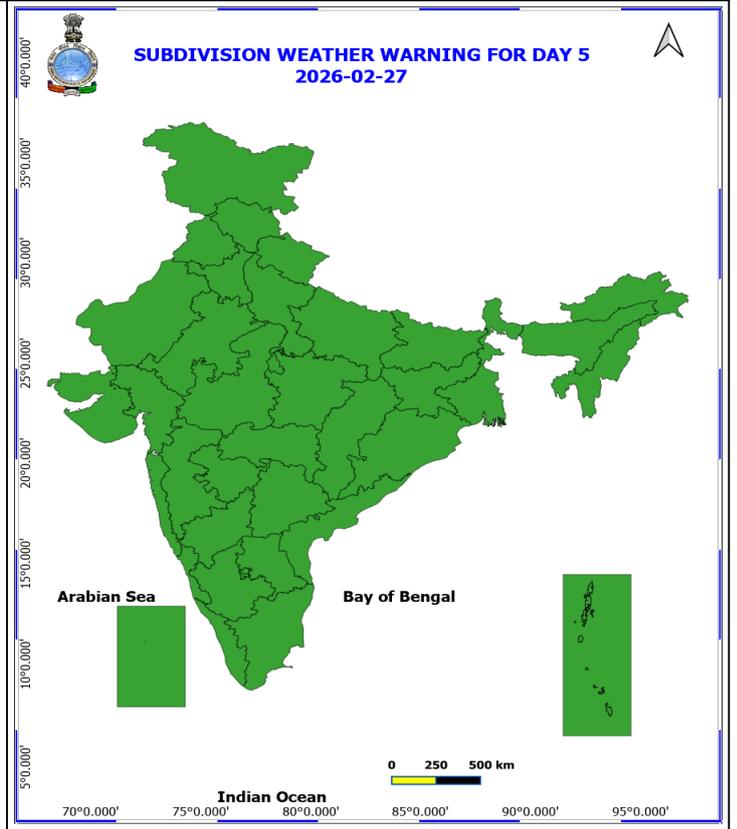
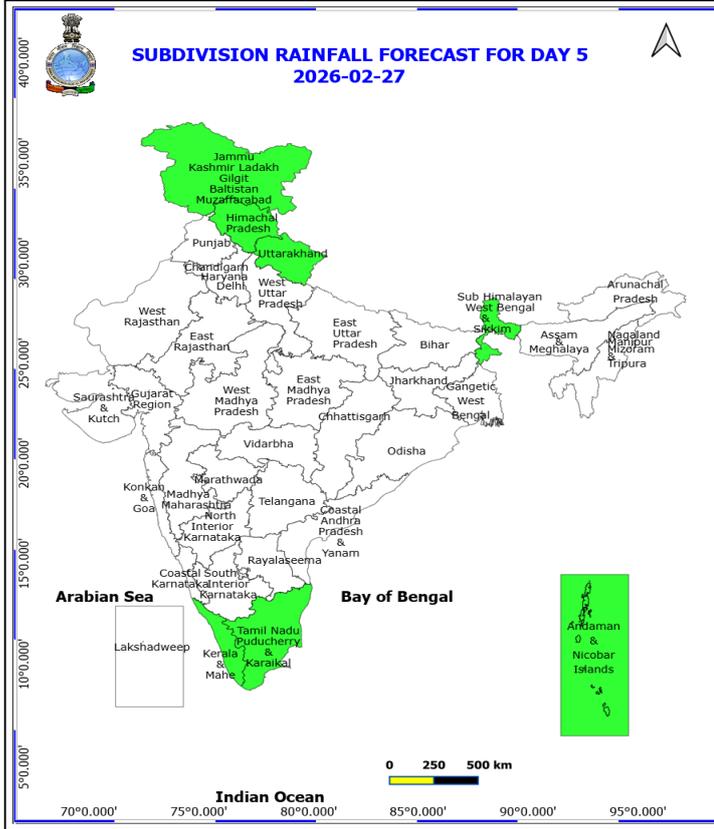
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
  - ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Chhattisgarh, Madhya Pradesh and Vidarbha.
- No Fishermen Warning**



**26 February (Day 4)**

**No Warning**

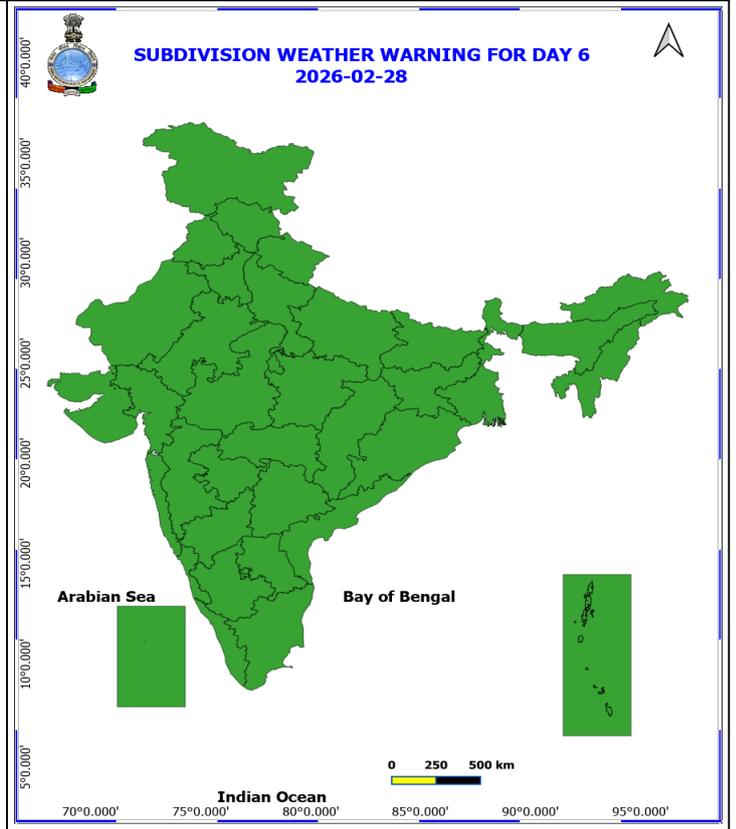
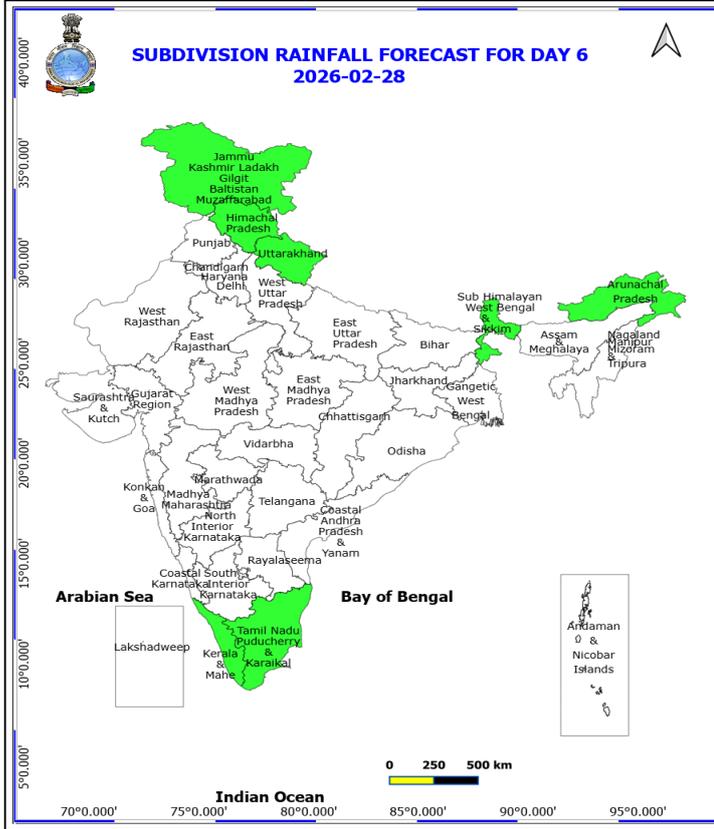
**No Fishermen Warning**



**27 February (Day 5)**

**No Warning**

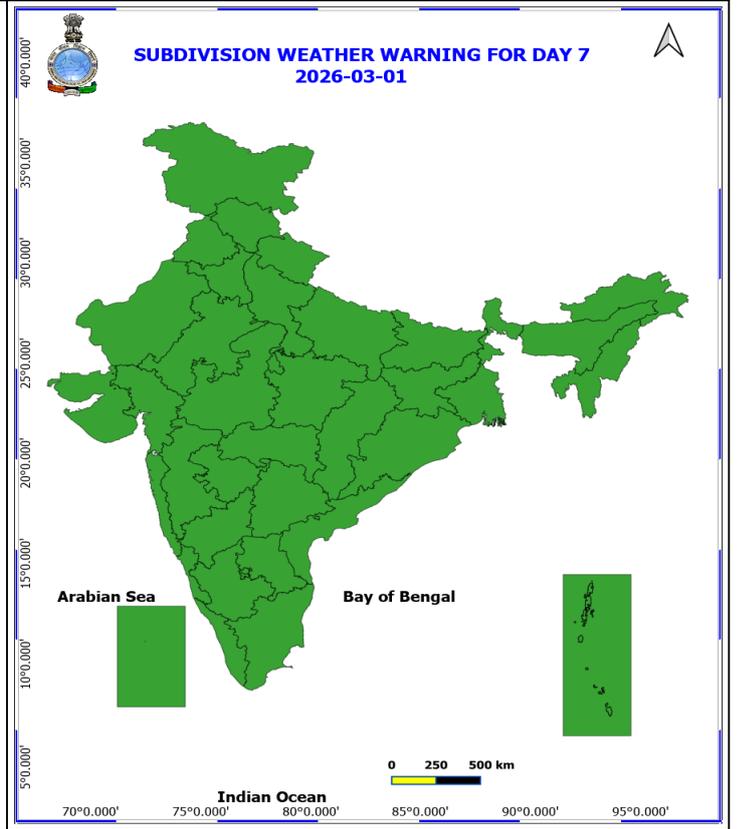
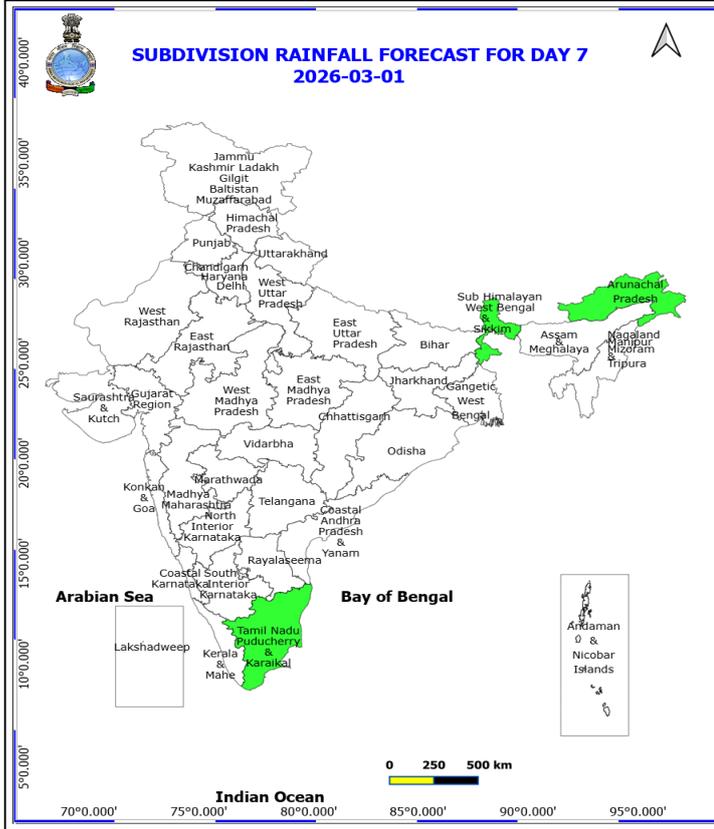
**No Fishermen Warning**



**28 February (Day 6)**

**No Warning**  
**No Fishermen Warning**

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**1 March (Day 7)**

**No Warning**

**No Fishermen Warning**



**Table-1**

**7 Days Rainfall Forecast**

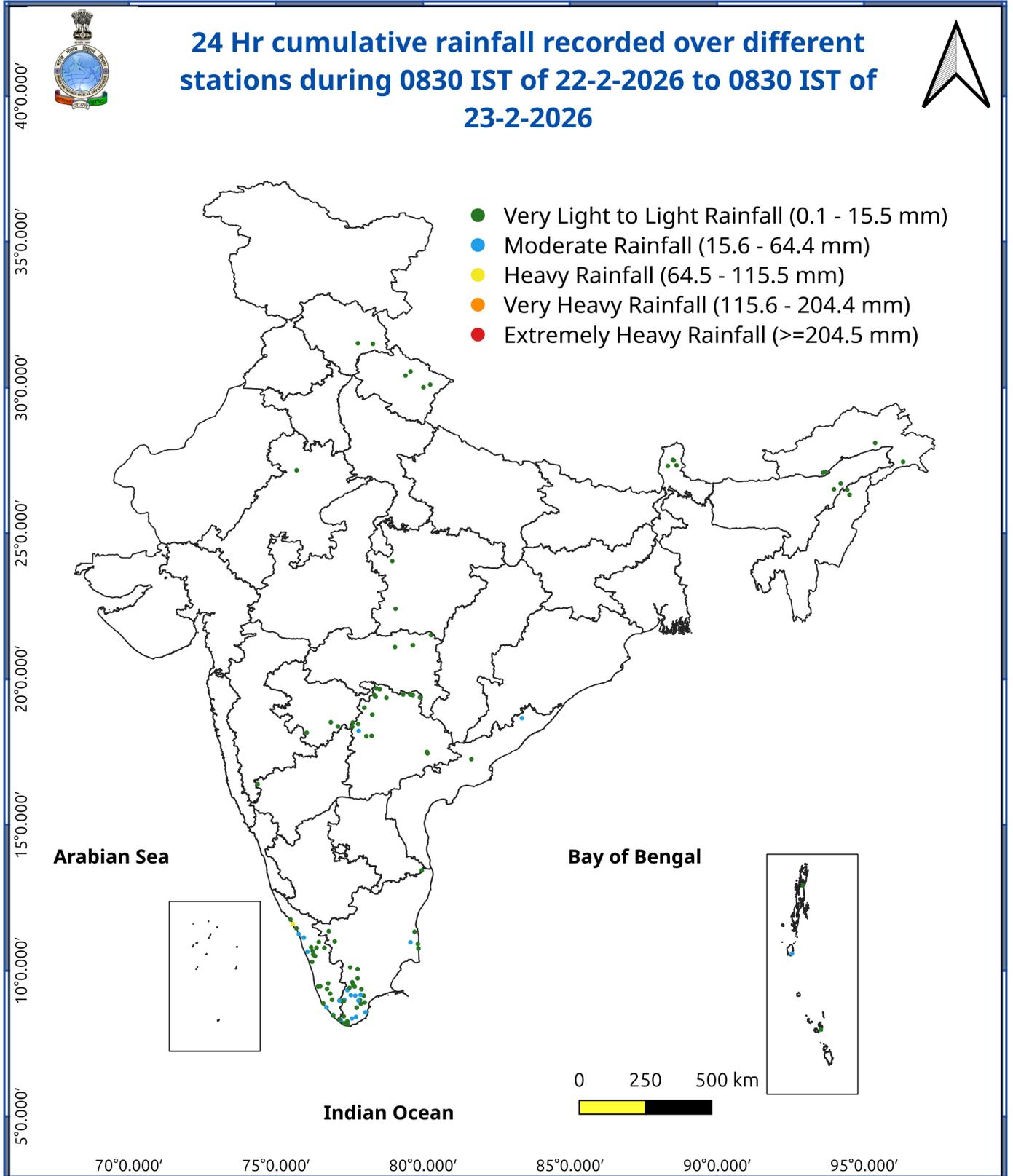
S.No.	Subdivision	23- Feb	24- Feb	25- Feb	26- Feb	27- Feb	28- Feb	1- Mar
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	FWS	SCT	ISOL	DRY	DRY
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	DRY	DRY	ISOL	ISOL
3	ASSAM & MEHGHALAYA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
4	N. M. M. & T.	ISOL	DRY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

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## Agromet advisories for various parts of the country

### Agromet advisories for likely impact of Above normal Temperatures

In **Intermediate Zone** and **Valley Temperate Zone** of **Jammu and Kashmir**, apply light irrigation to wheat and mustard crops. Maintain optimum moisture in apple orchards.

In **Himachal Pradesh**, provide light irrigation to wheat and early vegetables as per requirements.

In **West Rajasthan**, provide need based light irrigation in wheat, mustard and chickpea.

In **Punjab**, maintain optimum soil moisture through irrigation in mustard, gobhi sarson and potato.

In **Haryana**, provide light irrigation to mustard and gram at flowering and pod formation stages.

### Agromet advisories for likely impact of Thunderstorm / Gusty Winds

Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

### Legends & abbreviations:

#### Region wise classification of meteorological Sub-Divisions:

- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

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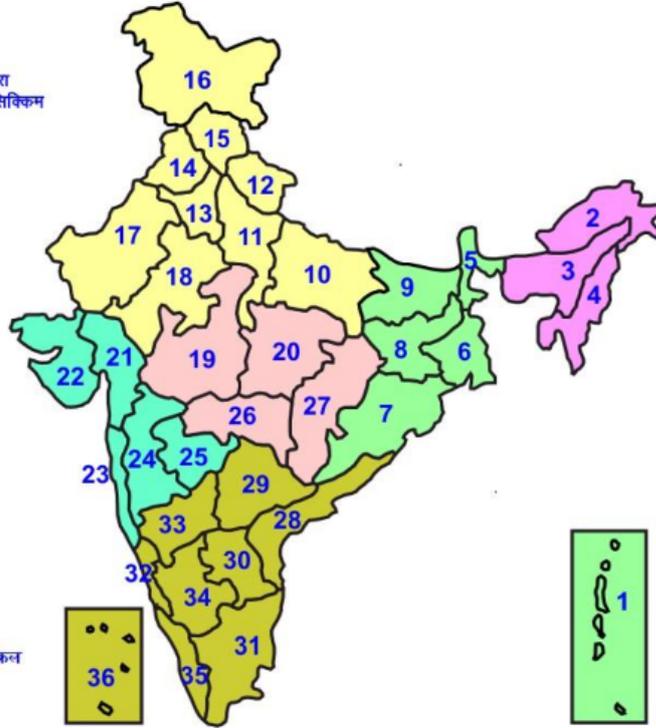
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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## 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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

### Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED TO TAKE ACTION)
- WARNING (TAKE ACTION)

### Probabilistic Forecast

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

- |                          |                 |                      |                    |
|--------------------------|-----------------|----------------------|--------------------|
| Heavy Rain               | Very Heavy Rain | Extremely Heavy Rain | Heavy Snow         |
| Thunderstorm & Lightning | Hailstorm       | Dust Storm           | Dust Raising Winds |
| Strong surface winds     | Heat Wave       | Hot Day              | Warm Night         |
| Cold Wave                | Cold Day        | Ground Frost         | Fog                |
| Hot & Humid              |                 |                      |                    |

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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



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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(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  $\leq -4.5^{\circ}\text{C}$  & 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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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)

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