



Friday 28 October 2022

MORNING

Time of Issue: 0745 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather systems, rainfall/thunderstorm Forecast & Warnings:

⇒ With likely setting in of northeasterly winds in the lower tropospheric levels over Bay of Bengal and South Peninsular India; the Northeast Monsoon rains are likely to commence over Southeast Peninsular India from around 29th October, 2022.

⇒ **Under the influence of above systems;**

◆ Scattered/Fairly widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Tamil Nadu, Puducherry & Karaikal during 29th October - 01st November; Kerala & Mahe on 30th & 31 October and over south Coastal Andhra Pradesh & Yanam on 31st October & 01st November, 2022.

◆ Scattered/Fairly widespread light/moderate rainfall also likely over Andaman & Nicobar Islands during next 5 days.

⇒ Dry weather very likely to prevail over rest parts of the country during next 5 days.

Main Weather Observations

◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hrs IST of yesterday):** at isolated places over Kerala & Mahe and Tamil Nadu.

◆ **Heavy rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Nil.

◆ **Thunderstorm/lightning observed (from 0830 hours IST of yesterday to 0530 hrs IST of Today):** at isolated places over Kerala & Mahe.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday) (1 cm or more):** Nil.

◆ **Minimum Temperature Departures (as on 27-10-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at most places over West Rajasthan; at a few places over Gangetic West Bengal, Andaman & Nicobar Islands and Saurashtra & Kutch. They were **appreciably below normal (-3.1°C to -5.0°C)** at most places over South Interior Karnataka; at many places over Rayalaseema and Coastal Karnataka; at a few places over Madhya Maharashtra, Telangana, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at most places over Vidarbha; at many places over Haryana, Chandigarh & Delhi, East Uttar Pradesh and East Madhya Pradesh; at a few places over West Madhya Pradesh, Bihar and Assam & Meghalaya and **near normal** over rest parts of the country. **Yesterday, the lowest minimum temperature of 11.9°C** was reported at **Mandla (East Madhya Pradesh)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 27-10-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe; at a few places over Himachal Pradesh, East Madhya Pradesh and South Interior Karnataka and at isolated places over Gangetic West Bengal, Odisha, Rajasthan and Tamil Nadu, Puducherry & Karaikal. They are **below normal (-1.6°C to -3.0°C)** at a few places over Haryana, Chandigarh & Delhi, Saurashtra & Kutch and Madhya Maharashtra and at isolated places over East Uttar Pradesh, West Madhya Pradesh and North Interior Karnataka and **near normal** over rest parts of the country. **Yesterday, the highest maximum temperature of 36.6°C** was reported at **Pilani & Phalodi (West Rajasthan)** over the plains 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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(Created by the MetInfo team 10/27/22)



Meteorological Analysis (Based on 0530 hours IST)

- ◆ With likely setting in of northeasterly winds in the lower tropospheric levels over Bay of Bengal and extreme South Peninsular India, the Northeast Monsoon rains are likely to commence over Southeast Peninsular India from around 29th October, 2022.
- ◆ The cyclonic circulation over Southwest Bay of Bengal off north Tamil Nadu coast between 1.5 km & 4.5 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 02nd November, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over the country during next 5 days.
- ◆ Shallow to moderate fog likely at isolated pockets during morning hours over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura

Weather Outlook for subsequent 2 days During 02nd - 04th November, 2022

- ◆ Fairly Widespread/Widespread light/moderate rainfall with isolated heavy falls likely over Tamil Nadu, Coastal Andhra Pradesh, Rayalaseema, Coastal & South Interior Karnataka and Kerala.
- ◆ Isolated to scattered rainfall/snowfall likely over western Himalayan region and isolated to scattered rainfall over south Odisha and Nagaland, Manipur, Mizoram & Tripura and Islands.
- ◆ Dry weather likely over rest parts of the country.



Weather Warning during next 5 days *

28 Oct (Day 1): ♦ Thunderstorm accompanied with lightning very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

29 Oct (Day 2): ♦ Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

30 Oct (Day 3): ♦ Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

31 Oct (Day 4): ♦ Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Andhra Pradesh & Yanam.

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

01 Nov (Day 5): ♦ Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and south Coastal Andhra Pradesh & Yanam.

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

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Table-1
5 Day Rainfall Forecast (MORNING)
28-October-2022

Met-Sub-Division	28-Oct Today	29Oct Sat	30Oct Sun	31Oct Mon	01Nov Tue
1. Andaman & Nicobar Islands	FWS	FWS	SCT	SCT	FWS
2. Arunachal Pradesh	DRY	DRY	DRY	DRY	DRY
3. Assam & Meghalaya	DRY	DRY	DRY	DRY	DRY
4. N. M. M. & T.	DRY	DRY	DRY	DRY	DRY
5. S.H. West Bengal & Sikkim	DRY	DRY	DRY	DRY	DRY
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	DRY	DRY	DRY	ISOL	DRY
8. Jharkhand	DRY	DRY	DRY	DRY	DRY
9. Bihar	DRY	DRY	DRY	DRY	DRY
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	DRY	DRY	DRY	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	DRY	DRY	DRY	DRY	DRY
16. J & K and Ladakh	DRY	DRY	DRY	ISOL	ISOL
17. West Rajsthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	DRY	DRY
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	DRY	DRY
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	FWS	SCT
29. Telangana	DRY	DRY	DRY	DRY	DRY
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	SCT
31. T.N.,Puducherry & Karaikal	SCT	FWS	FWS	FWS	FWS
32. Coastal Karnataka	DRY	DRY	ISOL	ISOL	ISOL
33. North Interior Karnataka	DRY	DRY	DRY	ISOL	ISOL
34. South Interior Karnataka	ISOL	ISOL	ISOL	ISOL	SCT
35. Kerala & Mahe	SCT	FWS	FWS	FWS	SCT
36. Lakshadweep	DRY	SCT	SCT	SCT	SCT

% Station Reporting Rainfall

% 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)
No Rain	Dry		

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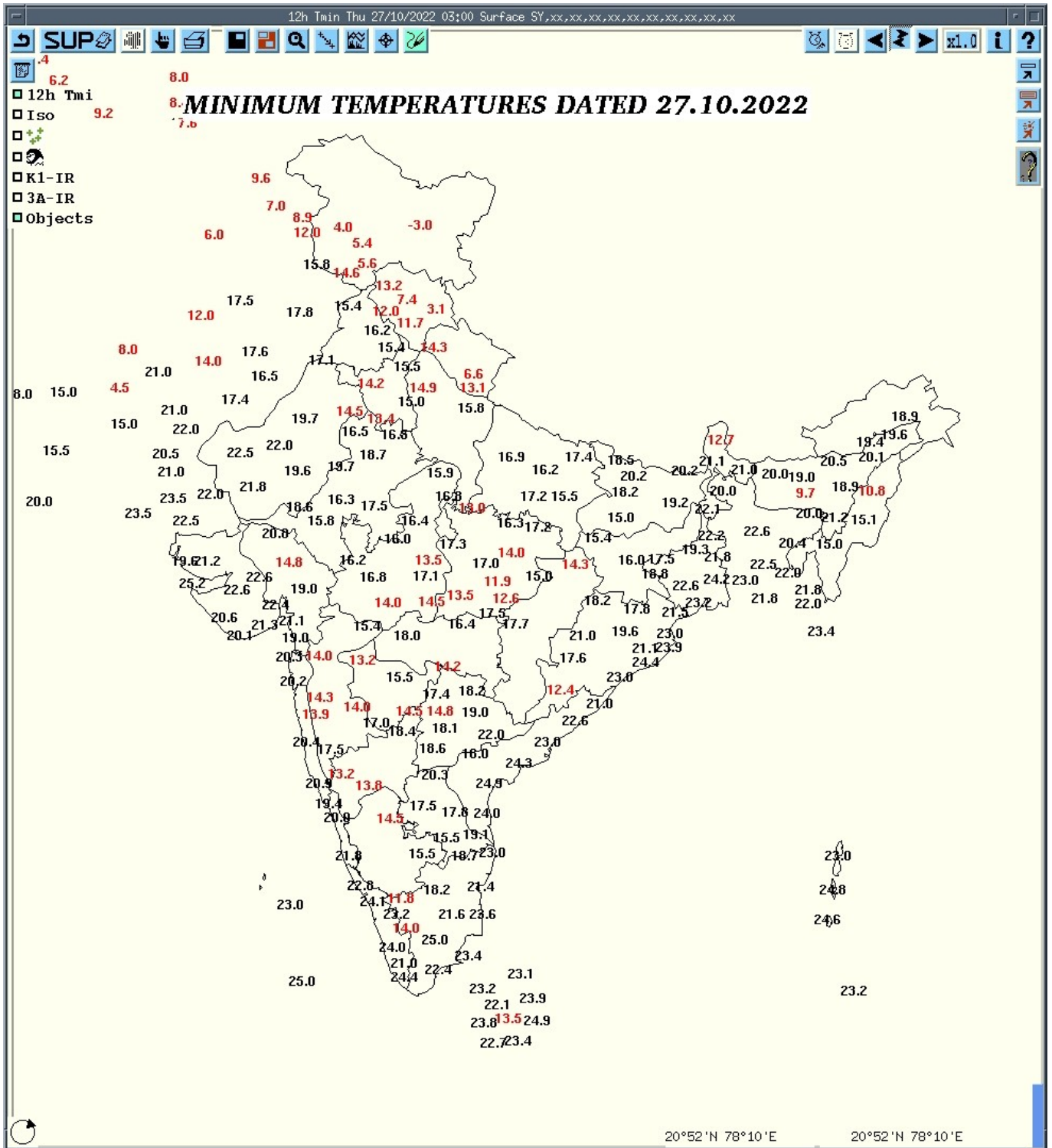
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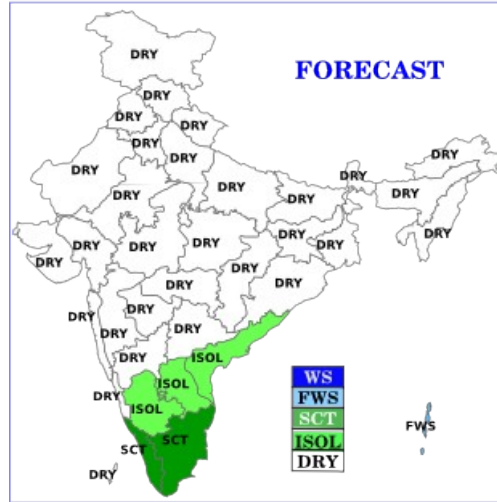


Fig. 3: Minimum Temperature during past 24 hours



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Friday 28 October 2022



28 Oct (Day 1): ♦ Thunderstorm accompanied with lightning very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

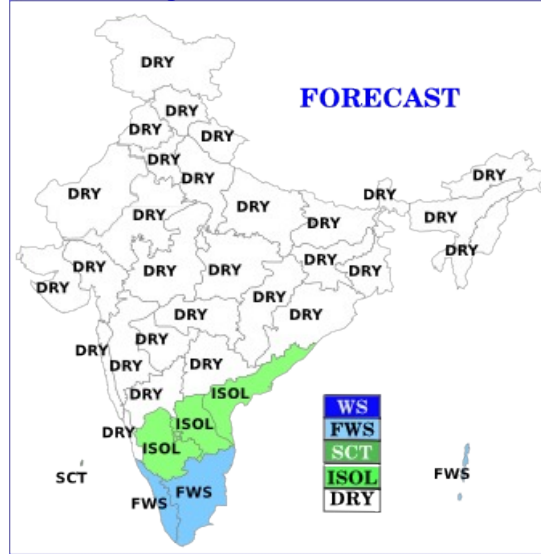
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Saturday 29 October 2022



29 Oct (Day 2): ♦ Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal.

♦ Thunderstorm accompanied with lightning likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

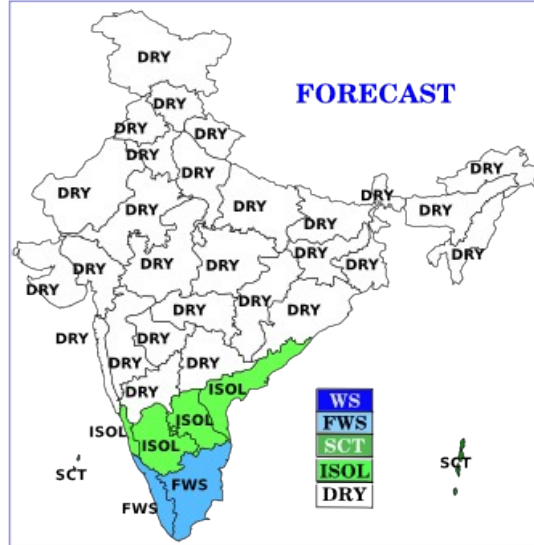
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Sunday 30 October 2022



30 Oct (Day 3): ♦ Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

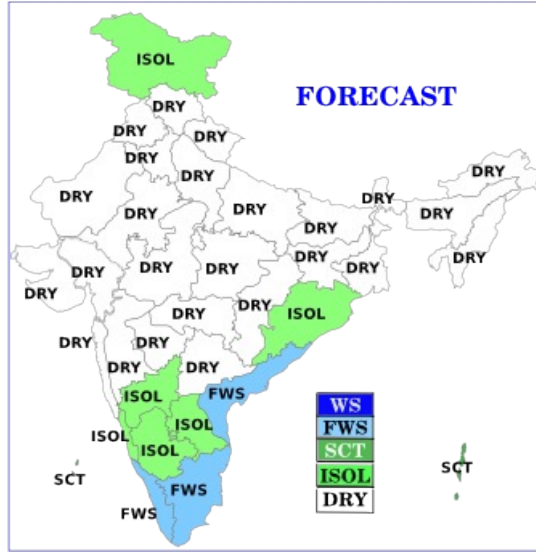
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Monday 31 October 2022



31 Oct (Day 4): ♦ Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Andhra Pradesh & Yanam.

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

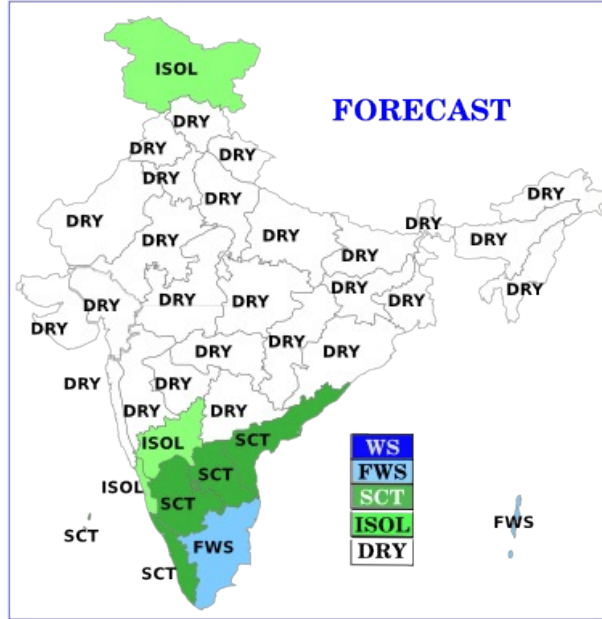
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Tuesday 01 November 2022



01 Nov (Day 5): ♦ Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and south Coastal Andhra Pradesh & Yanam.

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

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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 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)

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 Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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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



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 $\geq 40^{\circ}\text{C}$ 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 $\geq 37^{\circ}\text{C}$



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 $> 6.4^{\circ}\text{C}$.



Cold Wave

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 $\leq 15^{\circ}\text{C}$



Cold Day

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 $\leq -6.5^{\circ}\text{C}$



Fog

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



Thunderstorm

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.



Frost

Ice deposits on ground

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



Sea State

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



Cyclone

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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