

Monday 03 April 2023

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

Northwest India:

- ◆ Isolated to scattered light/moderate rainfall very likely over Western Himalayan region during 03rd-05th with thunderstorm, lightning/gusty over the region on 03rd & 04th April.
- ◆ Isolated light/moderate rainfall with thunderstorm very likely over plains of northwest India 03rd & 04th with peak activity on 03rd April.
- ◆ **Isolated hailstorm** very likely over Uttarakhand on 03rd & 04th, over Himachal Pradesh, Punjab and Haryana on 03rd April.

East & Northeast India:

- ◆ Scattered to Fairly widespread light/moderate rainfall/thunderstorm, lightning, gusty winds very likely to continue over Northeast India and Sub Himalayan West Bengal & Sikkim till 05th April and gradual reduction thereafter.

South India:

- ◆ Isolated to scattered light/moderate rainfall/thunderstorm, lightning/gusty winds very likely over Andhra Pradesh, Telangana, South Interior Karnataka, Tamil Nadu and Kerala during next 5 days.

Central & West India: No significant weather is expected over the region during next 5 days.

Maximum Temperatures Forecast:

- ◆ Maximum temperatures are below normal by 2-4°C over most parts of the country. It is likely to be below normal to near normal over most parts of the country during next 5 days.
- ◆ No heat wave likely over any part of country during next 5 days.

Main Weather Observations

- ◆ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Arunachal Pradesh; at many places over Assam & Meghalaya; at a few places over Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Odisha, West Bengal & Sikkim, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ◆ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday):(in cm): Valprai-8; Car Nicobar-5; Karaikal-4; Itanagar and North Lakhimpur-3 each; Pasighat, Balasore and Nancowry-2 each; Pet Jorhat, Dibrugarh, Bhubaneswar, Kakinada, Vellore and Punalur-1 each.
- ◆ **Heavy rainfall Observed** (from 0830 hours IST to 1730 hours IST of yesterday): Heavy rainfall occurred at isolated over Tamilnadu.
- ◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over West Rajasthan, Odisha, Coastal Andhra Pradesh & Yanam, Tripura and Assam & Meghalaya.
- ◆ **Minimum Temperature Departures (as on 02-04-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. They were **markedly below normal (-5.1°C or less)** at isolated places over East Madhya Pradesh and Gangetic West Bengal; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Haryana, Chandigarh & Delhi, Coastal & North Interior Karnataka and East Madhya Pradesh and at isolated places over Odisha; **below normal (-1.6°C to -3.0°C)** at many places over Punjab, Madhya Maharashtra, Marathwada and Sub-Himalayan West Bengal & Sikkim; at a few places over Uttarakhand, Rajasthan, West Madhya Pradesh, Telangana, Chhattisgarh and Jharkhand and at isolated places over West Uttar Pradesh, Konkan & Goa, Bihar, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 10.7°C** was reported at **Umaria (East Madhya Pradesh)** over plains of the country.
- ◆ **Maximum Temperature Departures (as on 02-04-2023):** Maximum temperatures were **markedly below normal (-5.1°C or less)** at many places over Uttarakhand; at a few places over Himachal Pradesh and Arunachal Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Punjab, East Uttar Pradesh and Jharkhand; at many places over Haryana, Chandigarh & Delhi, East Madhya Pradesh, West Uttar Pradesh and Bihar; at a few places over West Madhya Pradesh, Saurashtra & Kutch, Odisha, West Bengal & Sikkim and Chhattisgarh; at isolated places over Rajasthan, Telangana and Assam & Meghalaya; **below normal (-1.6°C to -3.0°C)** at most places over Gujarat Region and Madhya Maharashtra; at many places over Marathwada and Vidarbha; at a few places over Rayalaseema, North Interior Karnataka and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature of 40.6°C** was reported at **Kurnool (Rayalaseema)**.

* 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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National office 4870)

Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Western Disturbance** as a cyclonic circulation over east Iran & neighbourhood persists and extends between 3.1 & 7.6 km above mean sea level.
- ◆ The trough in lower & middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 87°E to the north of Lat. 25°N persists.
- ◆ The **cyclonic circulation** over West Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The north-south **trough/wind discontinuity** from north Chhattisgarh to south interior Tamil Nadu across Telangana and Andhra Pradesh extending upto 1.5 km above mean sea level persists.
- ◆ A **cyclonic circulation** lies over northeast Bangladesh & neighbourhood at 0.9 km above mean sea level.

Weather Forecast for next 5 days * upto 0830 hours IST of 08th April, 2023

- ◆ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ◆ **Northwest India:** Gradual rise in Maximum Temperatures by 2-4°C very likely during next 24 hours and no significant change thereafter.
- ◆ **East India:** Gradual rise in Maximum Temperatures by 3-5°C very likely during next 5 days.
- ◆ **Central India:** Gradual rise by 2-4°C in Maximum Temperatures very likely during next 2 days and no significant change thereafter.
- ◆ **West India:** Gradual rise by 2-4°C in Maximum Temperatures very likely during next 5 days.
- ◆ **Rest parts of the Country:** No significant change in Maximum Temperatures very likely during next 5 days.

Weather Outlook for subsequent 2 days during 08th-10th April, 2023

- ◆ A fresh Western Disturbance likely to affect Western Himalayan Region from the night of 08th April, 2023.
- ◆ Isolated light rainfall/thundershowers likely over southern parts of Peninsular India.
- ◆ Isolated to scattered light to moderate rainfall/thundershowers over parts of East India and northern parts of Peninsular India.
- ◆ Dry weather likely over rest parts of the country.

Weather Warning during next 5 days *

03 April (Day 1): ♦ **Hailstorm accompanied with thunderstorm & lightning** likely at isolated places over Himachal Pradesh and Uttarakhand.

♦ **Thunderstorm accompanied with lightning & gusty wind and Hails (30-40 kmph)** very likely at isolated places over Punjab, Haryana, Chandigarh; **accompanied with lightning & gusty winds (30-40 kmph)** very likely at isolated places over Rajasthan and Kerala & Mahe and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Telangana.

04 April (Day 2): ♦ **Hailstorm accompanied with thunderstorm & lightning** likely at isolated places over Uttarakhand.

♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** very likely at isolated places over Madhya Pradesh, Chhattisgarh and Kerala & Mahe and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana.

05 April (Day 3): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Chhattisgarh and Kerala & Mahe and **with lightning** over Vidarbha, Jharkhand and Telangana.

06 April (Day 4): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Kerala & Mahe and **with lightning** over Vidarbha, Chhattisgarh and Telangana.

07 April (Day 5): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Odisha, Kerala & Mahe and **with lightning** over Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh and Telangana.

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.



Table-1
5 Day Rainfall Forecast (MORNING)
03-April-2023

Met-Sub-Division	03-Apr Today	04Apr Tue	05Apr Wed	06Apr Thu	07Apr Fri
1. Andaman & Nicobar Islands	DRY	DRY	DRY	DRY	DRY
2. Arunachal Pradesh	FWS	FWS	FWS	SCT	SCT
3. Assam & Meghalaya	FWS	SCT	SCT	SCT	SCT
4. N. M. M. & T.	SCT	SCT	SCT	ISOL	ISOL
5. S.H. West Bengal & Sikkim	FWS	SCT	SCT	ISOL	ISOL
6. Gangetic West Bengal	DRY	ISOL	ISOL	DRY	DRY
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	DRY	DRY	ISOL	DRY	DRY
9. Bihar	DRY	DRY	DRY	DRY	DRY
10. East Uttar Pradesh	DRY	ISOL	DRY	DRY	DRY
11. West Uttar Pradesh	ISOL	ISOL	DRY	DRY	DRY
12. Uttarakhand	SCT	SCT	ISOL	DRY	DRY
13. Haryana, Chd & Delhi	FWS	ISOL	DRY	DRY	DRY
14. Punjab	FWS	ISOL	DRY	DRY	DRY
15. Himachal Pradesh	FWS	SCT	ISOL	ISOL	ISOL
16. J & K and Ladakh	SCT	FWS	ISOL	ISOL	ISOL
17. West Rajsthan	ISOL	DRY	DRY	DRY	DRY
18. East Rajasthan	ISOL	ISOL	DRY	DRY	DRY
19. West Madhya Pradesh	ISOL	ISOL	DRY	DRY	DRY
20. East Madhya Pradesh	ISOL	ISOL	ISOL	DRY	DRY
21. Gujarat Region	DRY	DRY	ISOL	ISOL	ISOL
22. Saurashtra & Kutch	DRY	DRY	ISOL	ISOL	ISOL
23. Konkan & Goa	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	ISOL	ISOL
25. Marathawada	DRY	DRY	ISOL	ISOL	ISOL
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	DRY	ISOL	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	DRY	DRY	DRY	ISOL	ISOL
33. North Interior Karnataka	DRY	DRY	ISOL	ISOL	ISOL
34. South Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
35. Kerala & Mahe	SCT	SCT	SCT	SCT	SCT
36. Lakshadweep	DRY	DRY	DRY	DRY	DRY

% 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		

* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

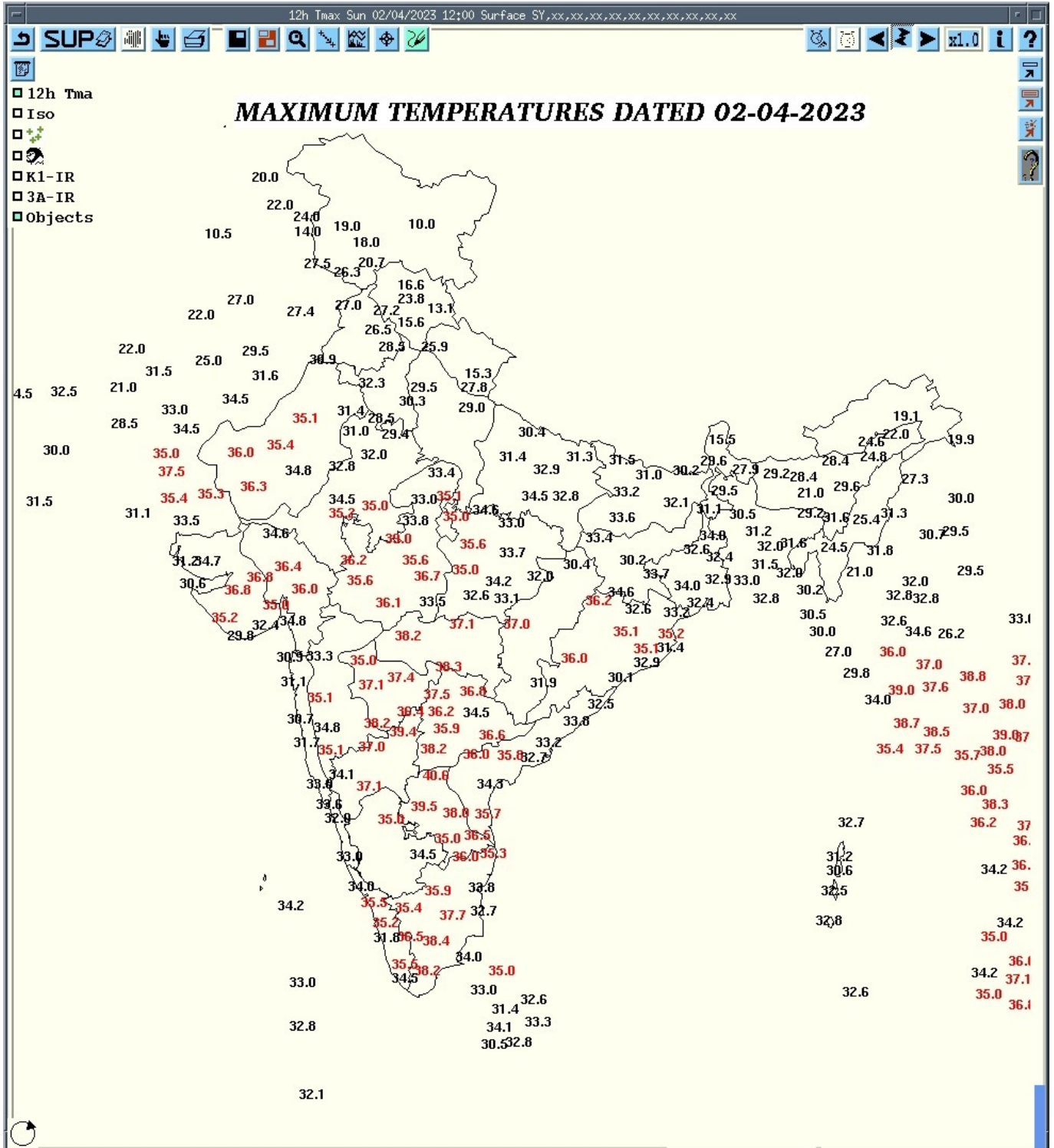
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag)



Fig. 2: Maximum Temperature during past 24 hours



* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

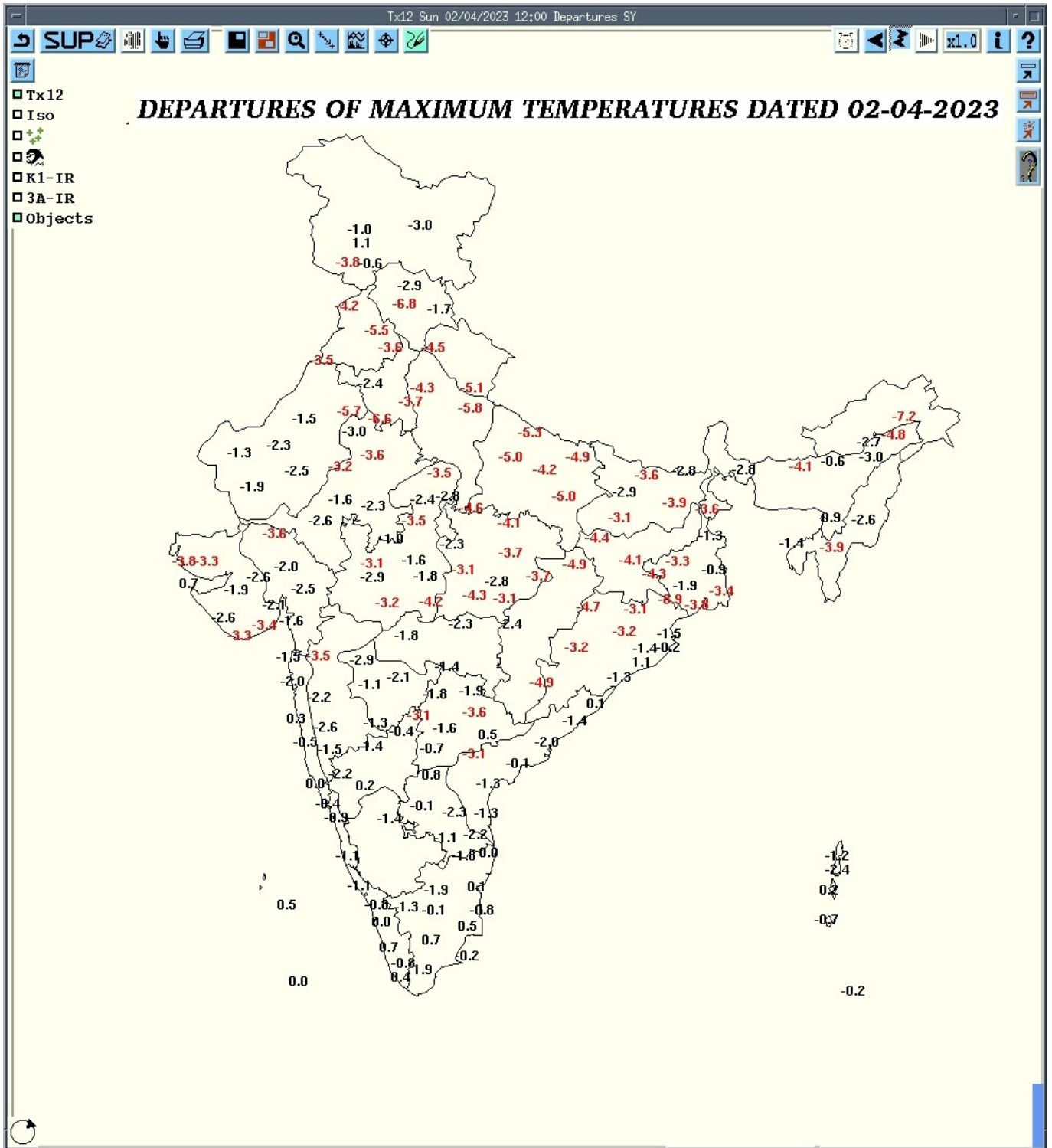
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created by the National class 1070)



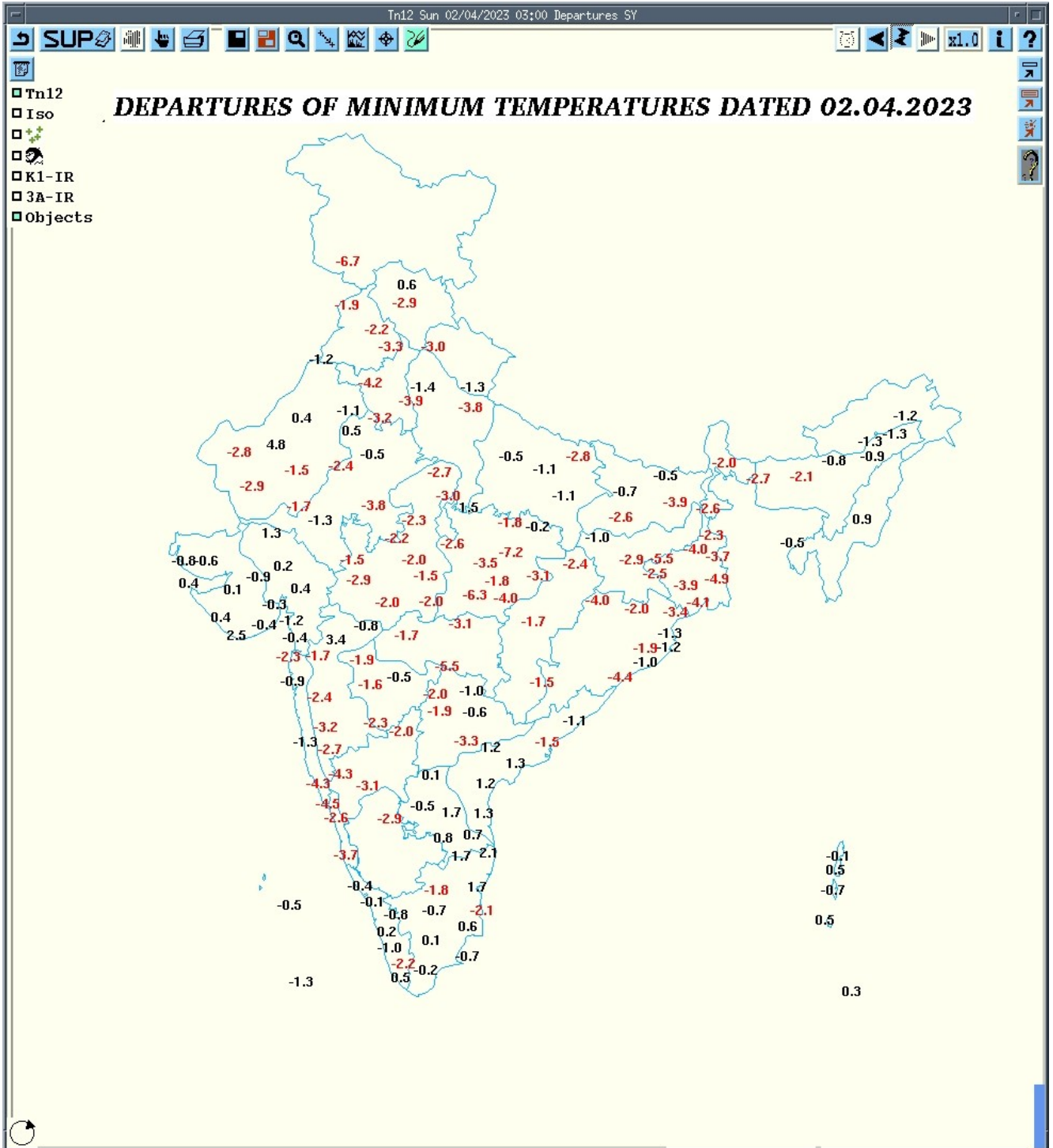
Fig. 4: Departure from Normal of Maximum Temperatures



* 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 or contact : +91 11 24631913, 24643965, 24629798



Fig. 5: Departure from Normal of Minimum Temperatures



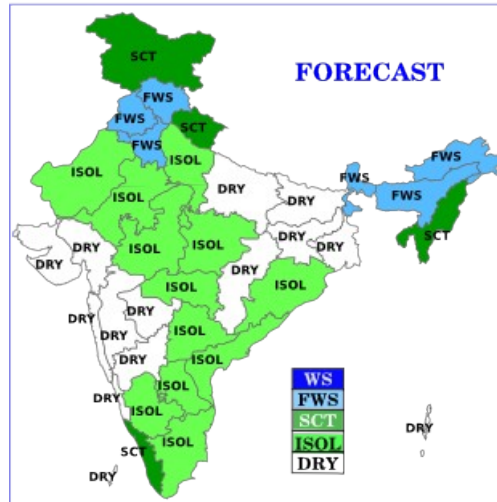
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Created by the MetInfo@1977)

Monday 03 April 2023



03 April (Day 1): ♦ Hailstorm accompanied with thunderstorm & lightning likely at isolated places over Himachal Pradesh and Uttarakhand.

♦ Thunderstorm accompanied with lightning & gusty wind and Hails (30-40 kmph) very likely at isolated places over Punjab, Haryana, Chandigarh; accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Rajasthan and Kerala & Mahe and with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Telangana.

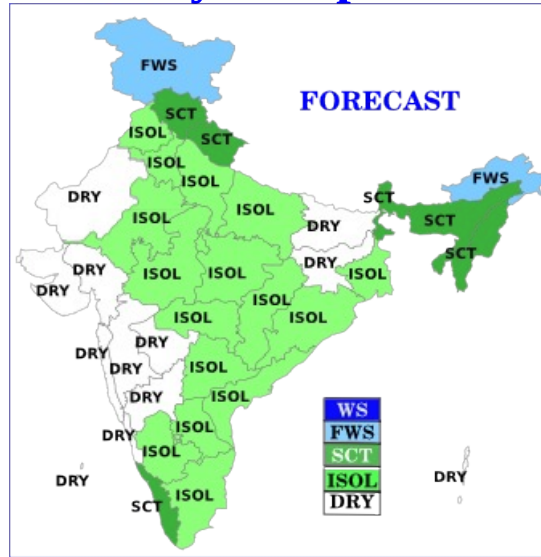
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag)

Tuesday 04 April 2023



04 April (Day 2): ♦ Hailstorm accompanied with thunderstorm & lightning likely at isolated places over Uttarakhand.

♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) very likely at isolated places over Madhya Pradesh, Chhattisgarh and Kerala & Mahe and with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana.

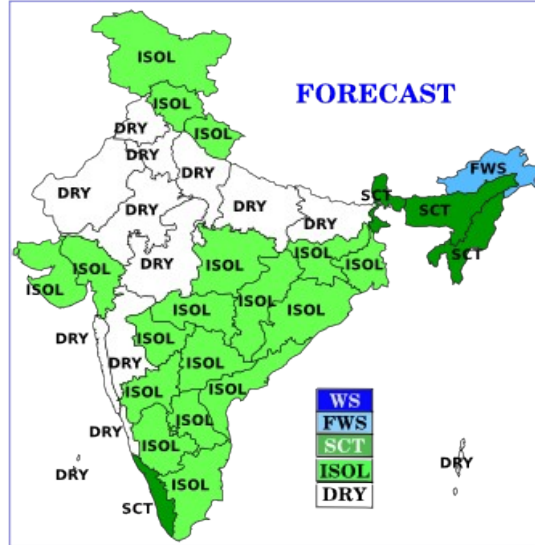
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National since 1975)

Wednesday 05 April 2023



05 April (Day 3): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Chhattisgarh and Kerala & Mahe and **with lightning** over Vidarbha, Jharkhand and Telangana.

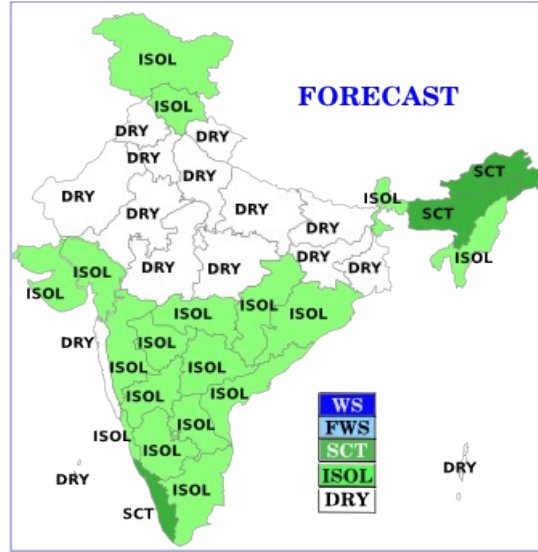
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag)

Thursday 06 April 2023



06 April (Day 4): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Kerala & Mahe and **with lightning** over Vidarbha, Chhattisgarh and Telangana.

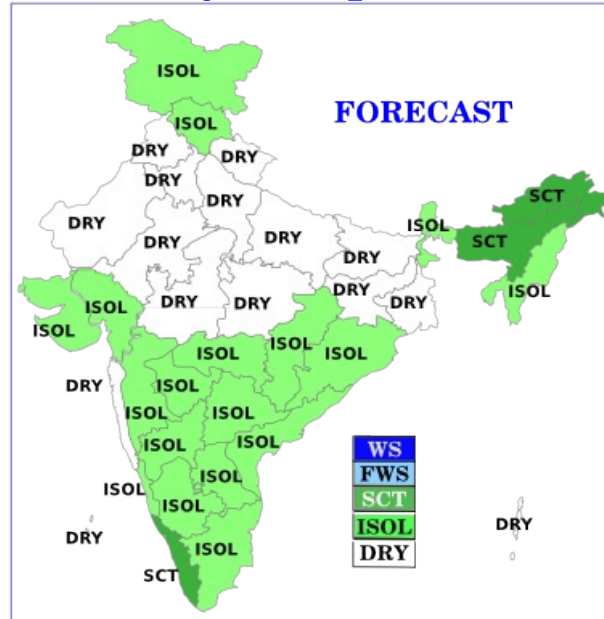
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag)

Friday 07 April 2023



07 April (Day 5): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Odisha, Kerala & Mahe and **with lightning** over Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh and Telangana.

* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

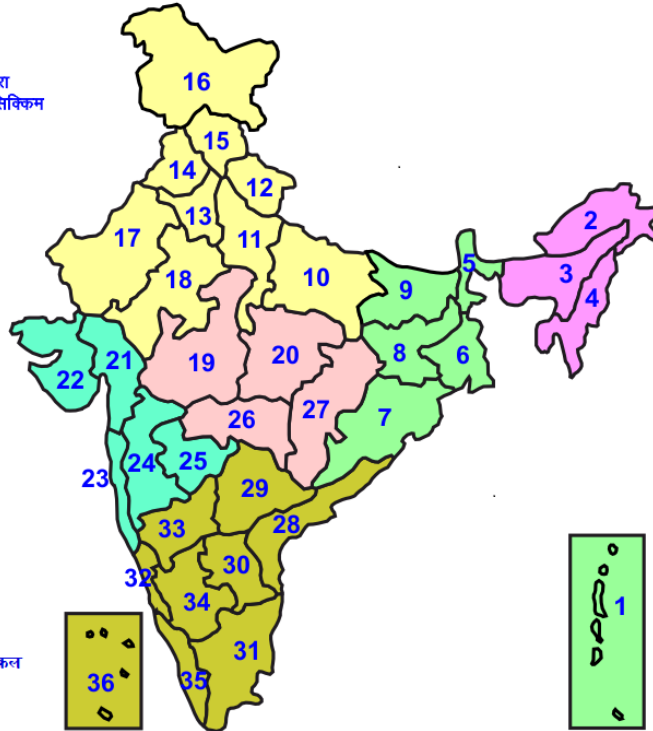
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag 497)

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

* 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 or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Media upto 1070)

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

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



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)

* 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 or contact : +91 11 24631913, 24643965, 24629798

(Created by the Meteorology Dept)