

Monday 27 March 2023

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

- ◆ A Western Disturbance lies as a cyclonic circulation over Jammu & Kashmir & adjoining Pakistan in middle tropospheric levels.
- ◆ A trough/wind-discontinuity runs from Bihar to Interior Tamilnadu in lower tropospheric levels.
- ◆ A fresh Western Disturbance is likely to affect northwest India from night of 29th March, 2023.
- ◆ Under the influence of above synoptic features, following weather is expected:

Northwest India: Isolated to scattered is likely over Western Himalayan Region during next 5 days with light/moderate rainfall & thunderstorm/hailstorm during 29th - 31st and isolated to scattered light rainfall & thunderstorm over plains of northwest India on 30th & 31st March, 2023.

Central India: Isolated light/moderate rainfall with thunderstorm & lightning/gusty winds likely over Chhattisgarh, Vidarbha and Madhya Pradesh on 29th & 30th March.

South India: Isolated to scattered light/moderate rainfall with thunderstorm & lightning/gusty winds likely over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 27th-29th March, 2023.

Northeast India: Scattered to fairly widespread light/moderate rainfall activity with thunderstorm & lightning/gusty winds likely to continue over Northeast India during 27th-29th March, 2023. Isolated heavy rainfall also likely over Arunachal Pradesh and Assam & Meghalaya on 27th March, 2023.

East India: Isolated to scattered light/moderate rainfall & thunderstorm & lightning/gusty winds likely over Bihar, Jharkhand, Gangetic West Bengal, Odisha and Sub-Himalayan West Bengal & Sikkim on 27th & 28th March, 2023.

Main Weather Observations

◆ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places over** Arunachal Pradesh; **at a few places over** Gangetic West Bengal, Odisha, East Madhya Pradesh and Chhattisgarh and **at isolated places over** Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Telangana, Tamil Nadu and Kerala.

◆ **Heavy Rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy Rainfall** at isolated places over Kerala.

◆ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday)(1 cm or more): **Kerala:** Punalur-7; **Gangetic West Bengal:** Midnapore-3; **Jammu & Kashmir:** Baderwah-1; **southeast Uttar Pradesh:** Churk-1; **East Madhya Pradesh:** Satna & Sidhi-1 each; **Tamil Nadu:** Kodaikanal-1.

◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh, East Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Chhattisgarh, East Madhya Pradesh, Odisha, Assam, Tripura and Kerala.

◆ **Minimum Temperature Departures (as on 26-03-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Sub-Himalayan West Bengal, Jharkhand, Rayalaseema; at a few places over Arunachal Pradesh, Gangetic West Bengal, Bihar, East Uttar Pradesh, Telangana, Coastal Andhra Pradesh & Yanam; at isolated places over Assam & Meghalaya, Odisha, Tamilnadu, Puducherry & Karaikal. They were **appreciably below normal (-3.1°C to -5.0°C)** at many places over Coastal Karnataka, at a few places over Konkan & Goa, North Interior Karnataka; **below normal (-1.6°C to -3.0°C)** at many places over Madhya Maharashtra; at a few places over East Rajasthan, Vidarbha; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Saurashtra & Kutch and **near normal** over rest parts of the country. Yesterday, the **lowest minimum temperature of 12.8°C** was reported at **Amritsar (Punjab)** over plains of the country.

◆ **Maximum Temperature Departures (as on 26-03-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at isolated places over Bihar, Gangetic West Bengal, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over West Rajasthan, Assam & Meghalaya and Gujarat State; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Madhya Maharashtra and Vidarbha; **below normal (-1.6°C to -3.0°C)** at many places over Punjab, Chhattisgarh, Marathwada, Telangana and Rayalaseema; at a few places over Uttarakhand, Uttar Pradesh and Coastal Andhra Pradesh & Yanam; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature of 39.1°C** was reported at **Gulbarga (North Interior Karnataka)**.

* 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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(Copies to the Meteorology 1077)



Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Western Disturbance** over north Pakistan & adjoining Jammu & Kashmir now lies over Jammu & Kashmir & adjoining Pakistan between 3.1 km & 7.6 km above mean sea level.
- ◆ The **trough/wind discontinuity** from southeast Uttar Pradesh to interior Tamil Nadu across Madhya Pradesh, Vidarbha, Marathwada and Interior Karnataka at 0.9 km above mean sea level persists.
- ◆ The **cyclonic circulation** over East Bangladesh & neighbourhood at 0.9 km above mean sea level persists.
- ◆ A fresh **Western Disturbance** is likely to affect northwest India from the night of 29th March, 2023.

Weather Forecast for next 5 days * upto 0830 hours IST of 01st April, 2023

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

Weather Outlook for subsequent 2 days during 01st March to 03rd April, 2023

- ◆ Scattered to fairly widespread light/moderate rainfall/thundershowers likely over Western Himalayan Region & adjoining plains and East & Northeast India.
- ◆ Isolated to scattered light/moderate rainfall/thundershowers likely over Andhra Pradesh, South Interior Karnataka, Tamil Nadu and Kerala & Mahe.
- ◆ Dry weather likely over rest parts of the country.

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Weather Warning during next 5 days *

27 March (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Odisha and Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and **with lightning** over Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

28 March (Day 2): ♦ **Thunderstorm accompanied with lightning** likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

29 March (Day 3): ♦ **Thunderstorm accompanied with lightning** likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

30 March (Day 4): ♦ **Thunderstorm accompanied with lightning, hail & gusty wind (30-40 kmph)** likely at isolated places over Rajasthan; **with lightning & hail** over Himachal Pradesh and Uttarakhand; **with lightning & gusty wind (30-40 kmph)** over Madhya Pradesh, Vidarbha, Chhattisgarh and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh.

31 March (Day 5): ♦ **Thunderstorm accompanied with lightning, hail & gusty wind (30-40 kmph)** likely at isolated places over Rajasthan; **with lightning & hail** over Himachal Pradesh and Uttarakhand; **with lightning & gusty wind (30-40 kmph)** over north Madhya Pradesh, Chhattisgarh and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

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)
27-March-2023

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

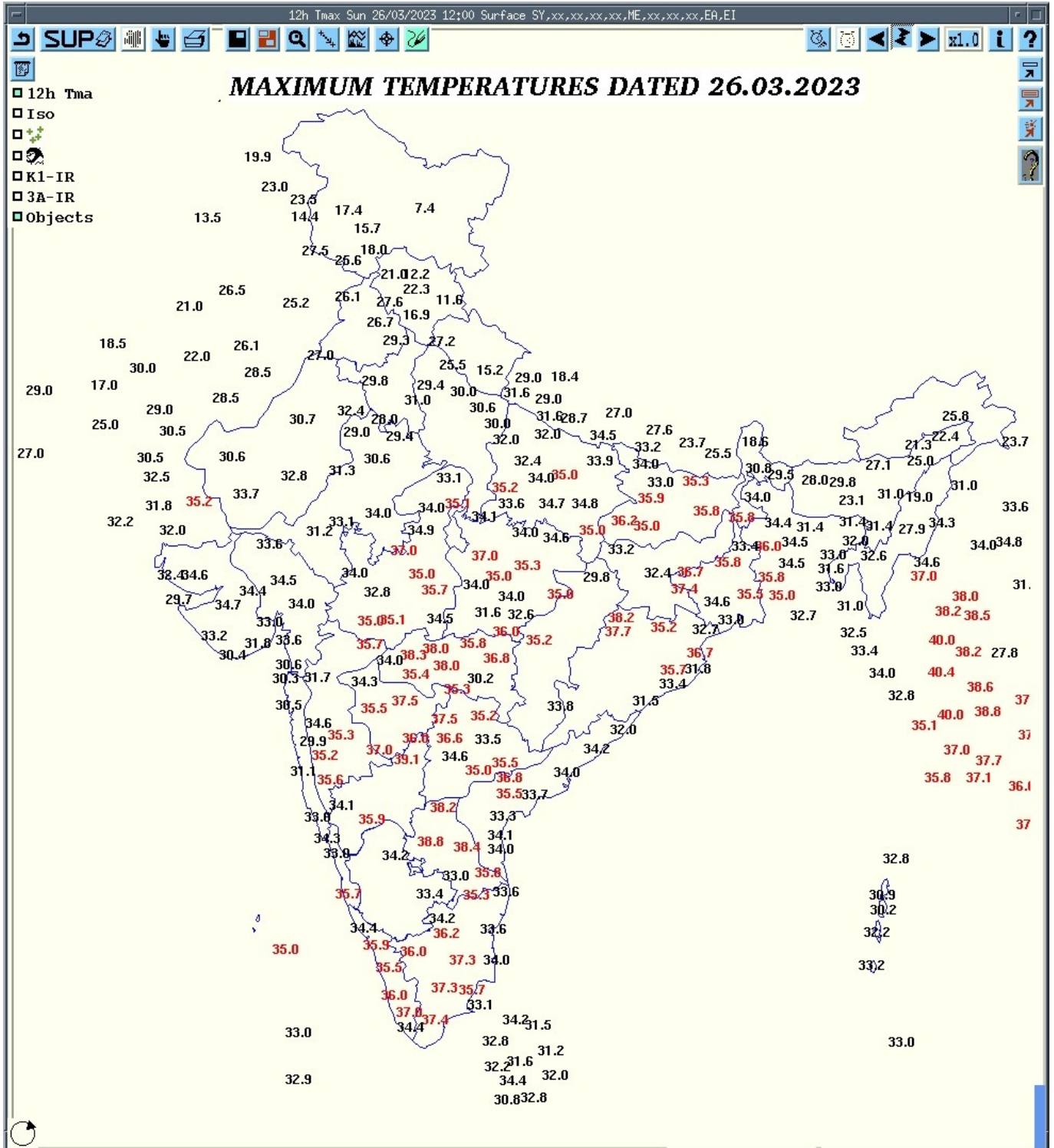
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Fig. 2: Maximum Temperature during past 24 hours



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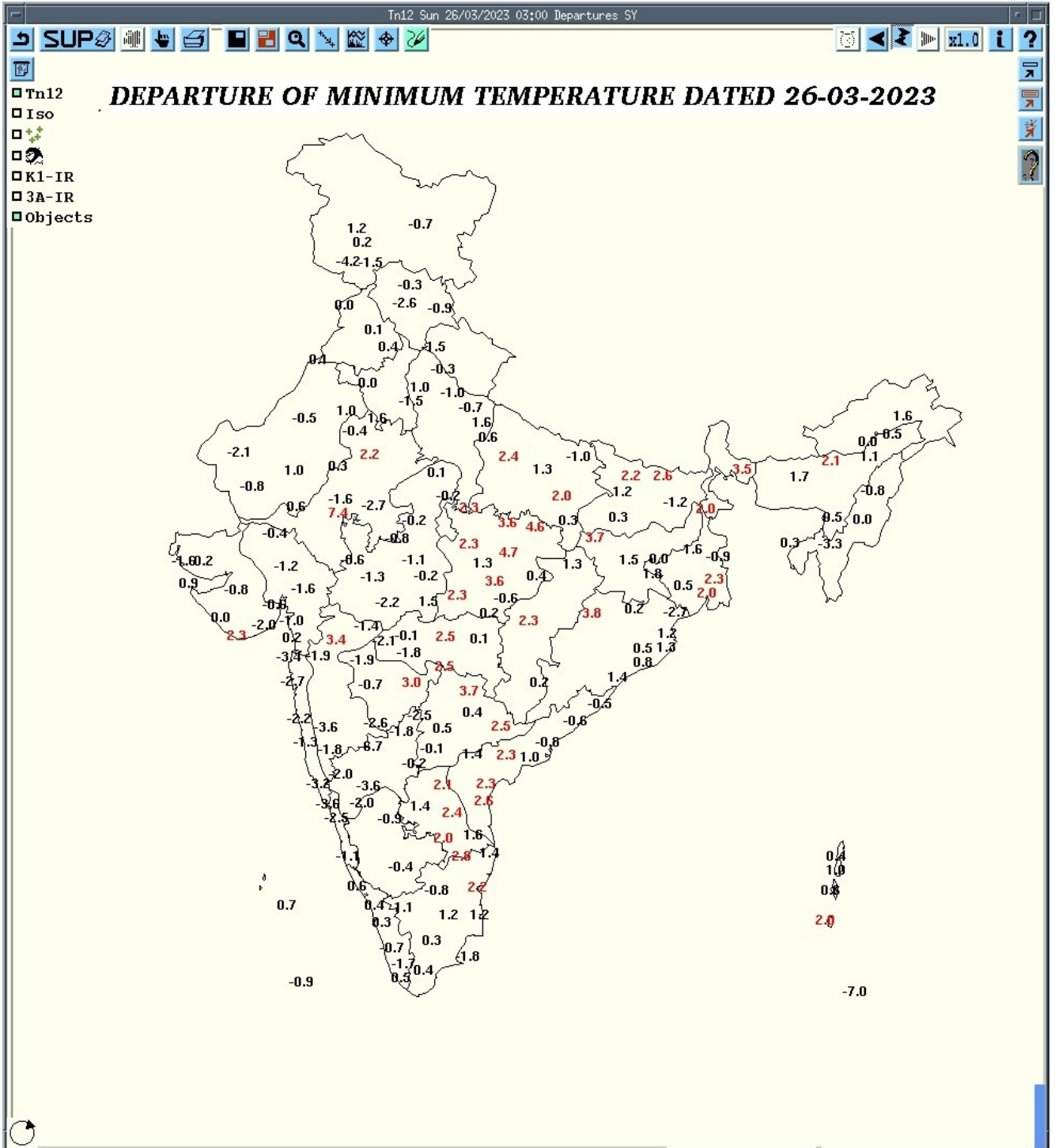
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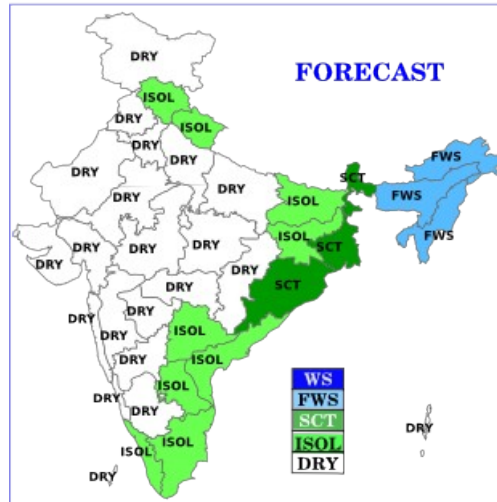
Fig. 5: Departure from Normal of Minimum Temperatures



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Monday 27 March 2023



27 March (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Odisha and Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and **with lightning** over Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

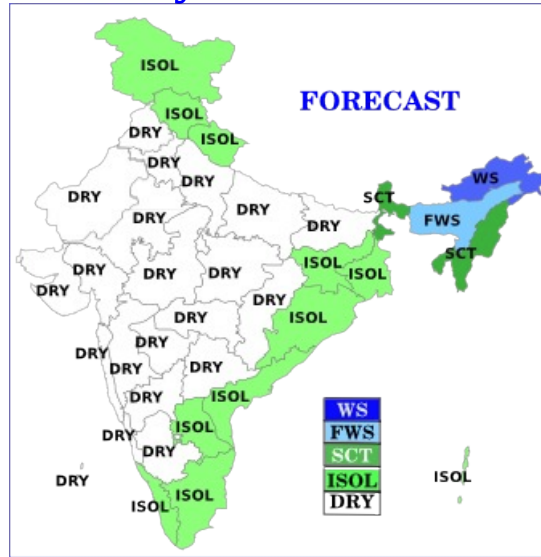
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Tuesday 28 March 2023



28 March (Day 2): ♦ **Thunderstorm accompanied with lightning** likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

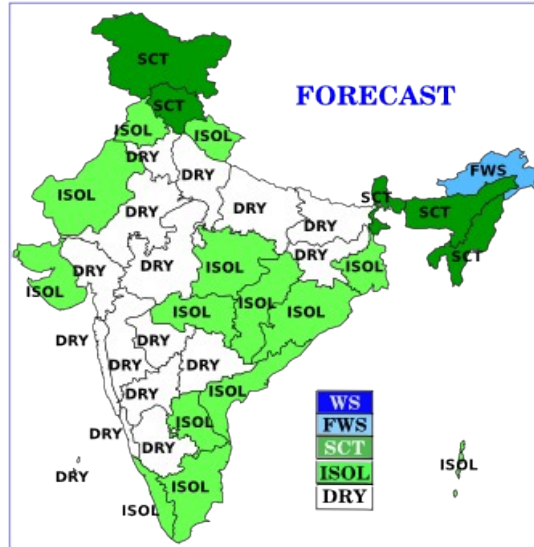
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Wednesday 29 March 2023



29 March (Day 3): ♦Thunderstorm accompanied with lightning likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

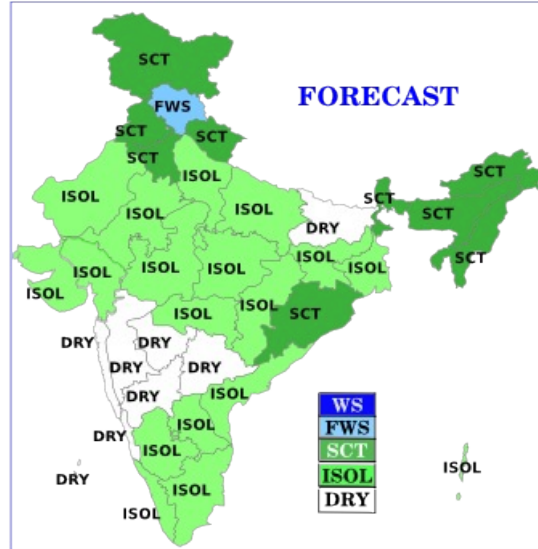
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Thursday 30 March 2023



30 March (Day 4): ♦ **Thunderstorm** accompanied with **lightning, hail & gusty wind (30-40 kmph)** likely at isolated places over Rajasthan; **with lightning & hail** over Himachal Pradesh and Uttarakhand; **with lightning & gusty wind (30-40 kmph)** over Madhya Pradesh, Vidarbha, Chhattisgarh and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh.

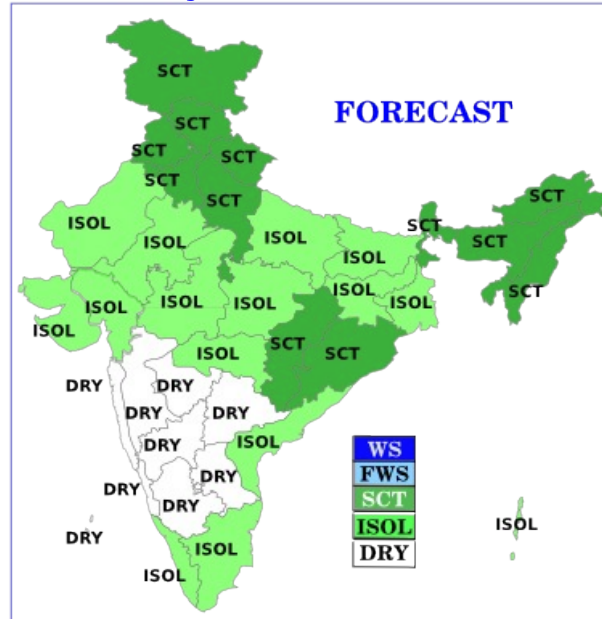
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Friday 31 March 2023



31 March (Day 5): ♦ **Thunderstorm** accompanied with **lightning, hail & gusty wind (30-40 kmph)** likely at isolated places over Rajasthan; **with lightning & hail** over Himachal Pradesh and Uttarakhand; **with lightning & gusty wind (30-40 kmph)** over north Madhya Pradesh, Chhattisgarh and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

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

(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.)