



Wednesday 29 March 2023

**MORNING**

Time of Issue: 0745 hours IST

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### **Weather Forecast and Warnings:**

**Northwest India:** Scattered to fairly widespread rainfall/thunderstorm activity very likely over the region during 30th March-01st April, 2023. Isolated hailstorm activity likely over the region on 30th & 31st March, 2023.

**Central India:** Isolated rainfall along with thunderstorm/hailstorm likely over East Madhya Pradesh on 30th & 31st and over Chhattisgarh on 31st March, 2023.

**East India:** Scattered to fairly widespread rainfall/thunderstorm activity very likely over Bihar, Jharkhand, Odisha and West Bengal & Sikkim during 30th March-02nd April. Isolated heavy rainfall also likely over West Bengal & Sikkim and Odisha on 31st March. Isolated hailstorm is likely over Bihar, Jharkhand, West Bengal & Sikkim on 31st March, 2023.

**Northeast India:** Scattered to fairly widespread light/moderate rainfall activity with thunderstorm & lightning/gusty winds likely to continue over Northeast India on 29th & 30th March, 2023. Another spell of enhanced rainfall activity likely over the region from 31st March. Isolated **heavy rainfall** also likely over Arunachal Pradesh during 31st March-02nd April and over east Assam on 31st March & 01st April, 2023.

### Main Weather Observations

◆ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Tamil Nadu, Puducherry & Karaikal, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Arunachal Pradesh.

◆ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday):(in cm): Pasighat and Tezpur-1.

◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Tamilnadu, Odisha and Arunachal Pradesh.

◆ **Minimum Temperature Departures (as on 28-03-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Coastal Andhra Pradesh & Yanam; at a few places over Tamilnadu, Puducherry & Karaikal. They were **appreciably below normal (-3.1°C to -5.0°C)** at many place over Vidarbha and Coastal & North Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, East Rajasthan and Madhya Maharashtra; at isolated places over Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand and Konkan & Goa; at a few places over West Rajasthan, Telangana, West Bengal & Sikkim and Assam & Meghalaya; at isolated places over Himachal Pradesh, West Uttar Pradesh, Gujarat state and Odisha and near normal over rest parts of the country. Yesterday, **the lowest minimum temperature of 13.2°C** was reported at **Karnal (Haryana)** over plains of the country.

◆ **Maximum Temperature Departures (as on 28-03-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at isolated places over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Assam & Meghalaya. They were appreciably **below normal (-3.1°C to -5.1°C)** at a few places over Saurashtra & Kutch and at isolated places over Haryana, Chandigarh & Delhi and East Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at most places over Madhya Maharashtra and Marathwada; at many places over East Rajasthan; at a few places over Uttarakhand, West Uttar Pradesh, West Rajasthan, Madhya Pradesh, Telangana and Chhattisgarh and at isolated places over Vidarbha, North Interior Karnataka, Odisha and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, **the highest maximum temperature of 40.0°C** was reported at **Kurnool (Rayalaseema)**.

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

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

- ◆ The **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. 58°E to the north of Lat. 28°N.
- ◆ The trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 86°E to the north of Lat. 25°N persists.
- ◆ The **cyclonic circulation** over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The **trough/wind discontinuity** from Marathwada to south Tamil Nadu across Telangana and Interior Karnataka at 0.9 km above mean sea level persists.
- ◆ The other **trough** from east Bihar to south Chhattisgarh across Jharkhand at 0.9 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 03rd 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 fall by 3-5°C thereafter during subsequent 3 days.
- ◆ **East & Central India:** No significant change in Maximum Temperatures very likely during next 24 hours and fall by 2-4°C thereafter during subsequent 3 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 03rd-05th April, 2023

- ◆ A fresh Western Disturbance likely to affect Northwest India from the night of 02nd April, 2023.
- ◆ Scattered to fairly widespread light/moderate rainfall/thundershowers likely over Western Himalayan Region & Northeast India.
- ◆ Dry weather likely over rest parts of the country.



### Weather Warning during next 5 days \*

**29 March (Day 1):** ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** very likely at isolated places over West Rajasthan, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** over Chhattisgarh, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat state.

**30 March (Day 2):** ♦ **Thunderstorm accompanied with lightning, hail & gusty wind (30-40 kmph)** likely at isolated places over Punjab, Rajasthan and East Madhya Pradesh; **with lightning & hail** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand and Haryana, Chandigarh & Delhi; **with lightning & gusty wind (30-40 kmph)** over West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, Gangetic West Bengal and Odisha and **with lightning** over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Andhra Pradesh & Yanam and Rayalaseema.

**31 March (Day 3):** ♦ **Heavy rainfall** very likely at isolated places over West Bengal & Sikkim, Odisha, Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning, hail & gusty wind (40-50 kmph)** very likely at isolated places over Bihar, Jharkhand and Gangetic West Bengal; **with lightning, hail & gusty wind (30-40 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, East Madhya Pradesh and Chhattisgarh; **with lightning & hail** over Himachal Pradesh, Uttarakhand and East Uttar Pradesh; **with lightning & gusty wind (40-50 kmph)** over Odisha; **with lightning & gusty wind (30-40 kmph)** over Vidarbha and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

**01 April (Day 4):** ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning & hail** likely at isolated places over Himachal Pradesh, Uttarakhand and West Uttar Pradesh; **with lightning & gusty wind (40-50 kmph)** over Odisha; **with lightning & gusty wind (30-40 kmph)** over Bihar and Sub-Himalayan West Bengal & Sikkim and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal and Telangana.

**02 April (Day 5):** ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Odisha, Bihar and West Bengal & Sikkim.

**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)**  
**29-March-2023**

Met-Sub-Division	29-Mar Today	30Mar Thu	31Mar Fri	01Apr Sat	02Apr Sun
1. Andaman & Nicobar Islands	ISOL	ISOL	ISOL	DRY	DRY
2. Arunachal Pradesh	FWS	FWS	WS	WS	FWS
3. Assam & Meghalaya	SCT	FWS	WS	WS	FWS
4. N. M. M. & T.	SCT	FWS	WS	WS	FWS
5. S.H. West Bengal & Sikkim	ISOL	SCT	WS	WS	FWS
6. Gangetic West Bengal	SCT	SCT	FWS	FWS	ISOL
7. Odisha	ISOL	SCT	FWS	SCT	ISOL
8. Jharkhand	DRY	SCT	FWS	SCT	DRY
9. Bihar	DRY	ISOL	FWS	SCT	DRY
10. East Uttar Pradesh	DRY	ISOL	SCT	SCT	DRY
11. West Uttar Pradesh	DRY	ISOL	FWS	SCT	DRY
12. Uttarakhand	ISOL	SCT	WS	WS	DRY
13. Haryana, Chd & Delhi	DRY	SCT	WS	SCT	DRY
14. Punjab	ISOL	FWS	WS	SCT	ISOL
15. Himachal Pradesh	ISOL	FWS	WS	WS	ISOL
16. J & K and Ladakh	SCT	SCT	FWS	FWS	ISOL
17. West Rajsthan	ISOL	SCT	ISOL	ISOL	DRY
18. East Rajasthan	DRY	SCT	ISOL	ISOL	DRY
19. West Madhya Pradesh	DRY	ISOL	ISOL	DRY	DRY
20. East Madhya Pradesh	DRY	ISOL	ISOL	ISOL	DRY
21. Gujarat Region	ISOL	ISOL	ISOL	DRY	DRY
22. Saurashtra & Kutch	ISOL	ISOL	ISOL	DRY	DRY
23. Konkan & Goa	DRY	ISOL	ISOL	DRY	DRY
24. Madhya Maharashtra	DRY	ISOL	ISOL	DRY	DRY
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	ISOL	ISOL	ISOL	DRY
27. Chhattisgarh	ISOL	SCT	SCT	ISOL	DRY
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	DRY	DRY	ISOL	ISOL	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	ISOL	ISOL	ISOL	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".

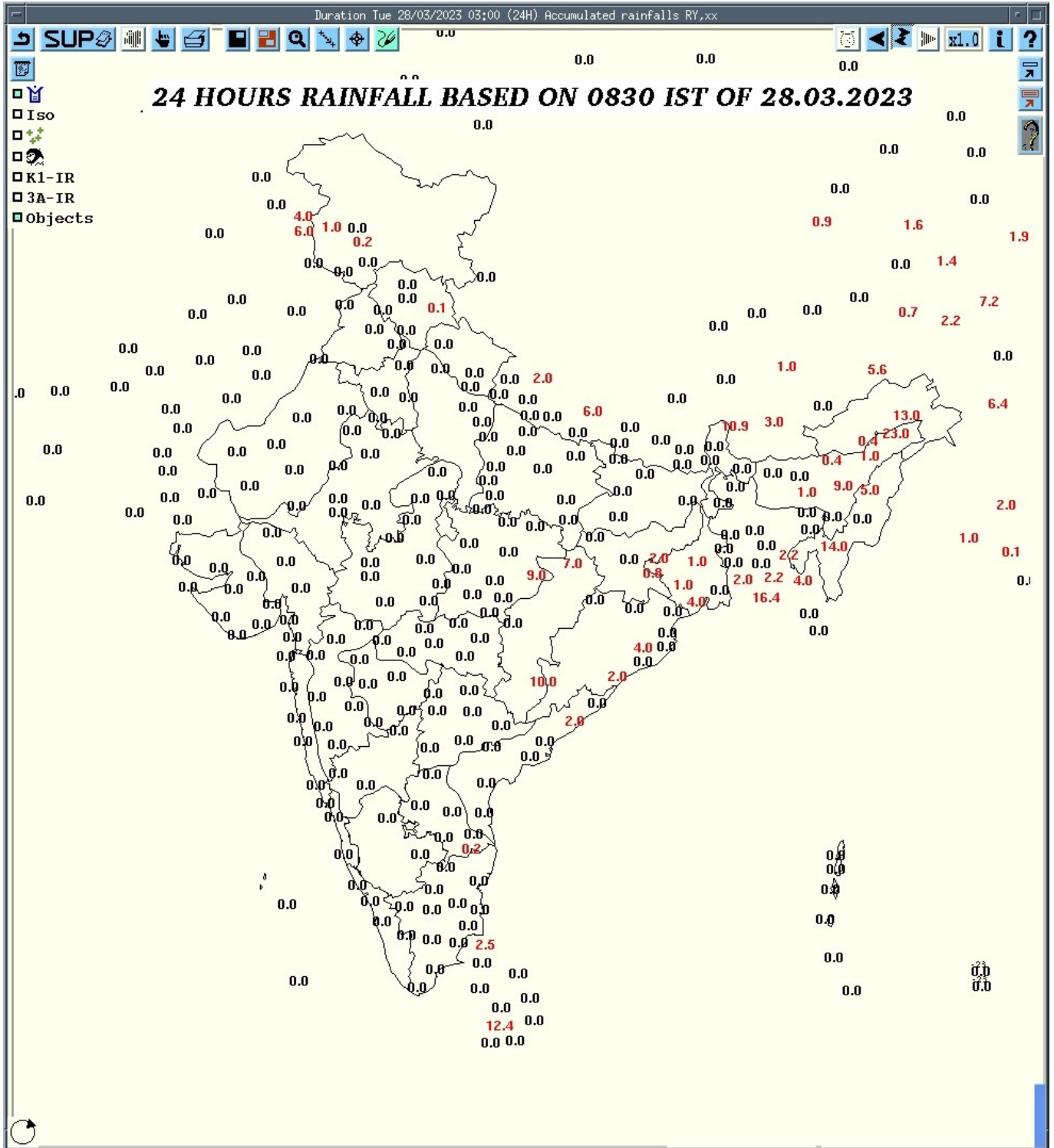
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



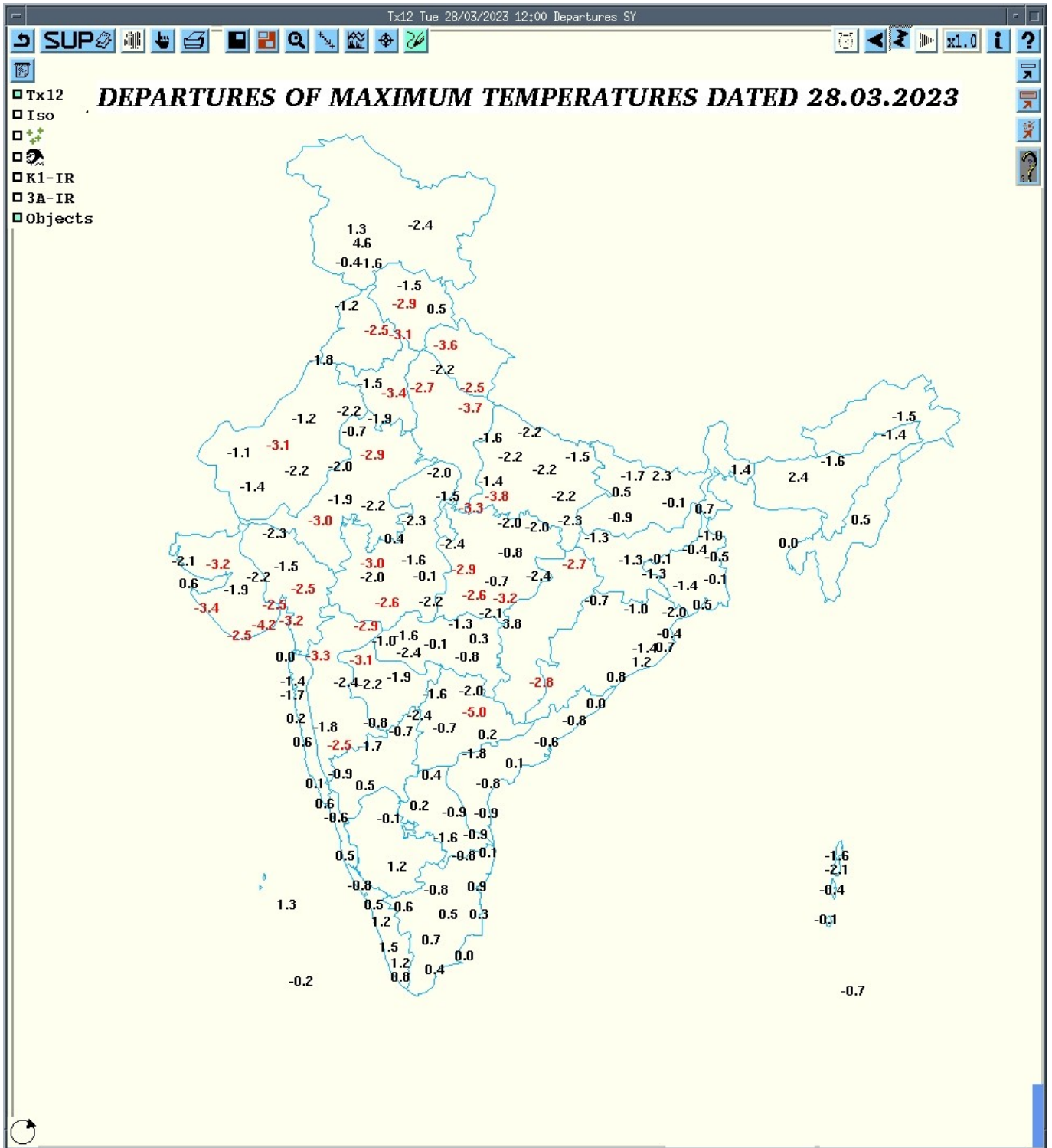
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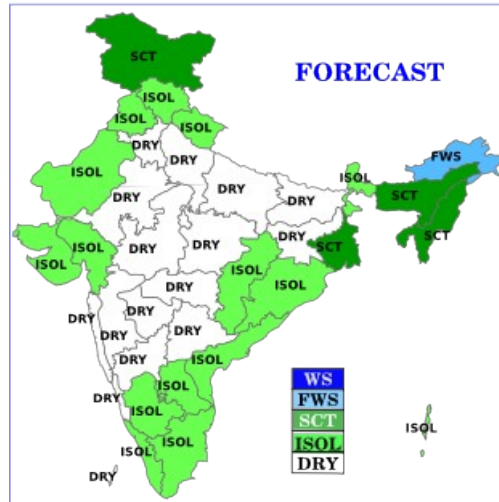
Fig. 4: Departure from Normal of Maximum Temperatures



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## Wednesday 29 March 2023



**29 March (Day 1):** ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** very likely at isolated places over West Rajasthan, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** over Chhattisgarh, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat state.

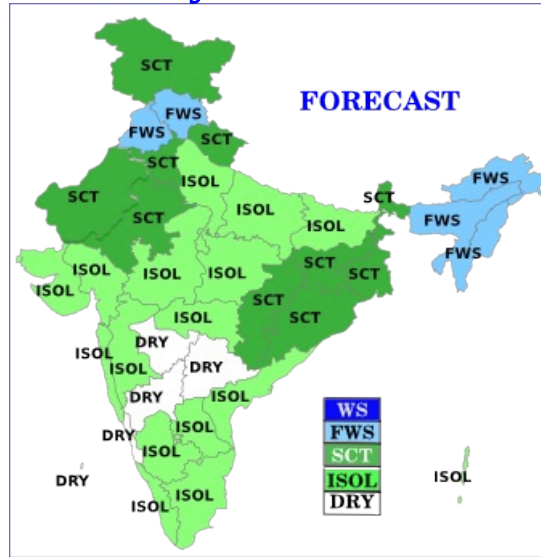
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## Thursday 30 March 2023



**30 March (Day 2):** ♦ **Thunderstorm accompanied with lightning, hail & gusty wind (30-40 kmph)** likely at isolated places over Punjab, Rajasthan and East Madhya Pradesh; **with lightning & hail** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand and Haryana, Chandigarh & Delhi; **with lightning & gusty wind (30-40 kmph)** over West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, Gangetic West Bengal and Odisha and **with lightning** over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Andhra Pradesh & Yanam and Rayalaseema.

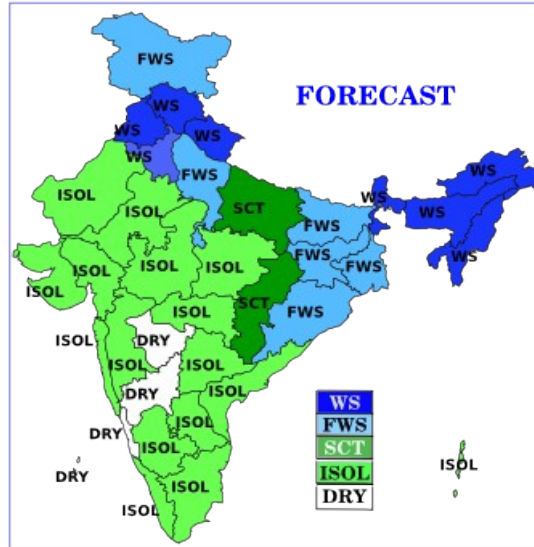
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## Friday 31 March 2023



**31 March (Day 3):** ♦ **Heavy rainfall** very likely at isolated places over West Bengal & Sikkim, Odisha, Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning, hail & gusty wind (40-50 kmph)** very likely at isolated places over Bihar, Jharkhand and Gangetic West Bengal; **with lightning, hail & gusty wind (30-40 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, East Madhya Pradesh and Chhattisgarh; **with lightning & hail** over Himachal Pradesh, Uttarakhand and East Uttar Pradesh; **with lightning & gusty wind (40-50 kmph)** over Odisha; **with lightning & gusty wind (30-40 kmph)** over Vidarbha and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

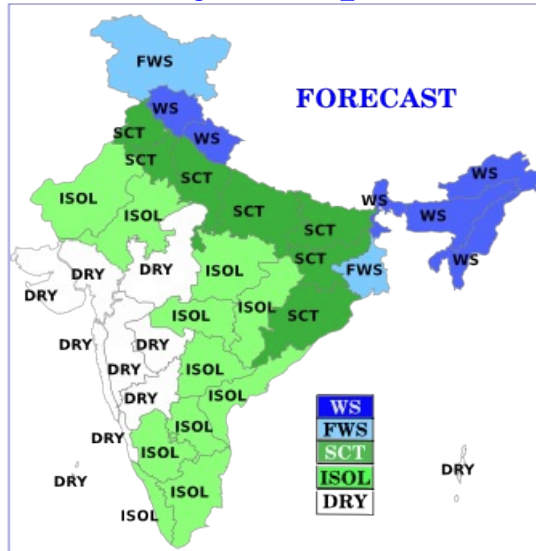
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## Saturday 01 April 2023



**01 April (Day 4):** ♦ Heavy rainfall likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

♦ Thunderstorm accompanied with lightning & hail likely at isolated places over Himachal Pradesh, Uttarakhand and West Uttar Pradesh; with lightning & gusty wind (40-50 kmph) over Odisha; with lightning & gusty wind (30-40 kmph) over Bihar and Sub-Himalayan West Bengal & Sikkim and with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal and Telangana.

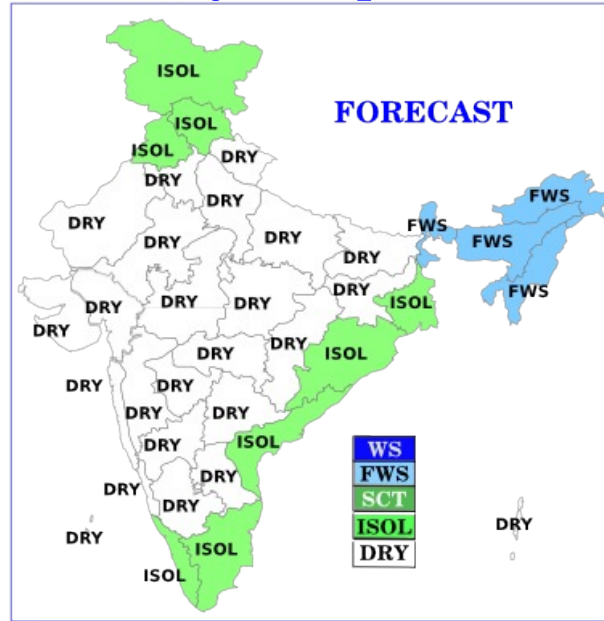
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## Sunday 02 April 2023



**02 April (Day 5):** ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Odisha, Bihar and West Bengal & Sikkim.

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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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## 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  $4.5^{\circ}\text{C}$  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  $\geq 37^{\circ}\text{C}$



Warm Night

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



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  $-4.5^{\circ}\text{C}$  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  $\leq 15^{\circ}\text{C}$



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

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](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

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