

Saturday 01 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: A fresh spell of scattered to fairly widespread rainfall/thunderstorm, lightning very likely over the region on 03rd April. **Isolated hailstorm** likely over Himachal Pradesh, Uttarakhand, Punjab and Haryana on 03rd April.

East India: ☐ Scattered to fairly widespread rainfall/thunderstorm, lightning/gusty winds very likely over the region on 01st April.

Northeast India: ☐ Fairly widespread to widespread light/moderate rainfall/thunderstorm, lightning, gusty winds very likely to continue over Northeast India during 01st-05th April.

☐ **Isolated heavy rainfall** likely over Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura on 01st & 02nd April.

☐ **Isolated hailstorm** likely over Assam & Meghalaya on 01st April.

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

Main Weather Observations

◆ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi; **at many places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **at a few places** over East Uttar Pradesh, East Madhya Pradesh, Rajasthan, Chhattisgarh, Gangetic West Bengal and Odisha and **at isolated places** over West Uttar Pradesh, West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya.

◆ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday):(in cm): **Himachal Pradesh:** Nahan-4; **Uttarakhand:** Tehri-3; **Sub-Himalayan West Bengal & Sikkim:** Gangtok-3; **Assam & Meghalaya:** Shillong-3; **Haryana, Chandigarh & Delhi:** Bhiwani-2; **East Uttar Pradesh:** Kanpur & Banda-2 each; **Telangana:** Kothagudem-2.

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

◆ **Thunderstorm observed** (from 0830 hours IST of Yesterday to 0530 hours IST of today): at isolated places over Punjab, Haryana, Chandigarh & Delhi, Odisha, Uttarakhand, Rajasthan, East Uttar Pradesh, Bihar, Jharkhand, West Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim and East Madhya Pradesh.

◆ **Hailstorm observed** (from 0830-1730 hours IST of yesterday): at isolated places over Punjab, Uttar Pradesh, Chhattisgarh and Madhya Pradesh.

◆ **Minimum Temperature Departures (as on 31-03-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Bihar and East Madhya Pradesh; at isolated places over Himachal Pradesh and East Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Punjab; at a few places over Chhattisgarh and Madhya Maharashtra; at isolated places over West Madhya Pradesh, Vidarbha, Konkan & Goa and Rayalaseema. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Rajasthan, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal and North Interior Karnataka; **below normal (-1.6°C to -3.0°C)** at most places over Coastal Karnataka; at a few places over West Rajasthan and Saurashtra & Kutch; at isolated places over Haryana, Chandigarh & Delhi, Assam & Meghalaya, Odisha, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 13.7°C** was reported at **Delhi-Ridge (Delhi)** over plains of the country.

◆ **Maximum Temperature Departures (as on 31-03-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. They were **markedly below normal (-5.1°C or less)** at most places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal; at many places over Uttarakhand, East Uttar Pradesh, West Rajasthan; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Madhya Maharashtra; at isolated places over Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch; **appreciably below normal (-3.1°C to -5.1°C)** at a few places over Vidarbha, Marathwada, North Interior Karnataka; **below normal (-1.6°C to -3.0°C)** at many places over Telangana; at a few places over Rayalaseema; at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 39.6°C** was reported at **Anantpur (Rayalaseema)**.

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

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(Circle as the National office 4070)

Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Western Disturbance** as a cyclonic circulation over north Pakistan & neighbourhood now lies over north Pakistan & adjoining Jammu & Kashmir at 3.1 km above mean sea level. However, the trough aloft in middle tropospheric westerlies with its axis 5.8 km above mean sea level runs roughly along Long. 72°E to the north of Lat. 28°N.
- ◆ The **cyclonic circulation** over northwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The **cyclonic circulation** over central Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The **trough/wind discontinuity** from the above cyclonic circulation over central Uttar Pradesh to Telangana across East Madhya Pradesh and Vidarbha extending upto 1.5 km above mean sea level persists.
- ◆ The other **trough** from Sub-Himalayan West Bengal to north Odisha across Gangetic West Bengal at 1.5 km above mean sea level persists.
- ◆ The **cyclonic circulation** over south Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ A fresh **Western Disturbance** is likely to affect Northwest India from night 02nd April, 2023.

Weather Forecast for next 5 days * upto 0830 hours IST of 06th April, 2023

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

Weather Outlook for subsequent 2 days during 06th-08th April, 2023

- ◆ Isolated light rainfall/thundershowers rainfall/thundershowers likely over Western Himalayan Region and Southern parts of Peninsular India.
- ◆ Scattered to fairly widespread light to moderate rainfall/thundershowers over Northeast India and northeastern parts of Peninsular India.
- ◆ Dry weather likely over rest parts of the country.

Weather Warning during next 5 days *

01 April (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

♦ **Hailstorm accompanied with thunderstorm, lightning & gusty wind (40-50 kmph)** very likely at isolated places over Assam & Meghalaya and **with thunderstorm & lightning** over Uttarakhand, East Uttar Pradesh.

♦ **Thunderstorm accompanied with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Odisha and Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty wind (30-40 kmph)** at isolated places over Punjab, Haryana, Chandigarh, Delhi, Bihar, Jharkhand, West Bengal Sikkim, Arunachal Pradesh, Rayalaseema, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Telangana, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

02 April (Day 2): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** very likely at isolated places over Coastal Andhra Pradesh Yanam, Rayalaseema, Kerala & Mahe and **with lightning** over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana.

03 April (Day 3): ♦ **Hailstorm accompanied with thunderstorm, lightning & gusty wind (30-40 kmph)** likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and **with thunderstorm & lightning** over Himachal Pradesh and Uttarakhand.

♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Rajasthan and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh and Telangana.

04 April (Day 4): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh Yanam, Rayalaseema, Kerala & Mahe and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh and Telangana.

05 April (Day 5): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh Yanam, Rayalaseema, Kerala & Mahe and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh 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.

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(Circle as the National office 1077)



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

Met-Sub-Division	01-Apr Today	02Apr Sun	03Apr Mon	04Apr Tue	05Apr Wed
1. Andaman & Nicobar Islands	ISOL	ISOL	DRY	DRY	DRY
2. Arunachal Pradesh	WS	WS	FWS	FWS	FWS
3. Assam & Meghalaya	WS	WS	FWS	FWS	FWS
4. N. M. M. & T.	WS	WS	SCT	SCT	SCT
5. S.H. West Bengal & Sikkim	WS	WS	SCT	SCT	SCT
6. Gangetic West Bengal	FWS	ISOL	DRY	DRY	DRY
7. Odisha	SCT	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	SCT	DRY	DRY	DRY	DRY
9. Bihar	SCT	DRY	DRY	DRY	DRY
10. East Uttar Pradesh	ISOL	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	ISOL	DRY	ISOL	ISOL	ISOL
12. Uttarakhand	FWS	ISOL	FWS	SCT	SCT
13. Haryana, Chd & Delhi	ISOL	DRY	SCT	ISOL	ISOL
14. Punjab	ISOL	ISOL	FWS	ISOL	ISOL
15. Himachal Pradesh	FWS	ISOL	FWS	FWS	FWS
16. J & K and Ladakh	FWS	SCT	FWS	FWS	FWS
17. West Rajsthan	DRY	DRY	ISOL	DRY	DRY
18. East Rajasthan	DRY	DRY	ISOL	ISOL	ISOL
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	ISOL	DRY	DRY	DRY	DRY
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	DRY	DRY
33. North Interior Karnataka	DRY	DRY	DRY	DRY	DRY
34. South Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
35. Kerala & Mahe	ISOL	ISOL	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		

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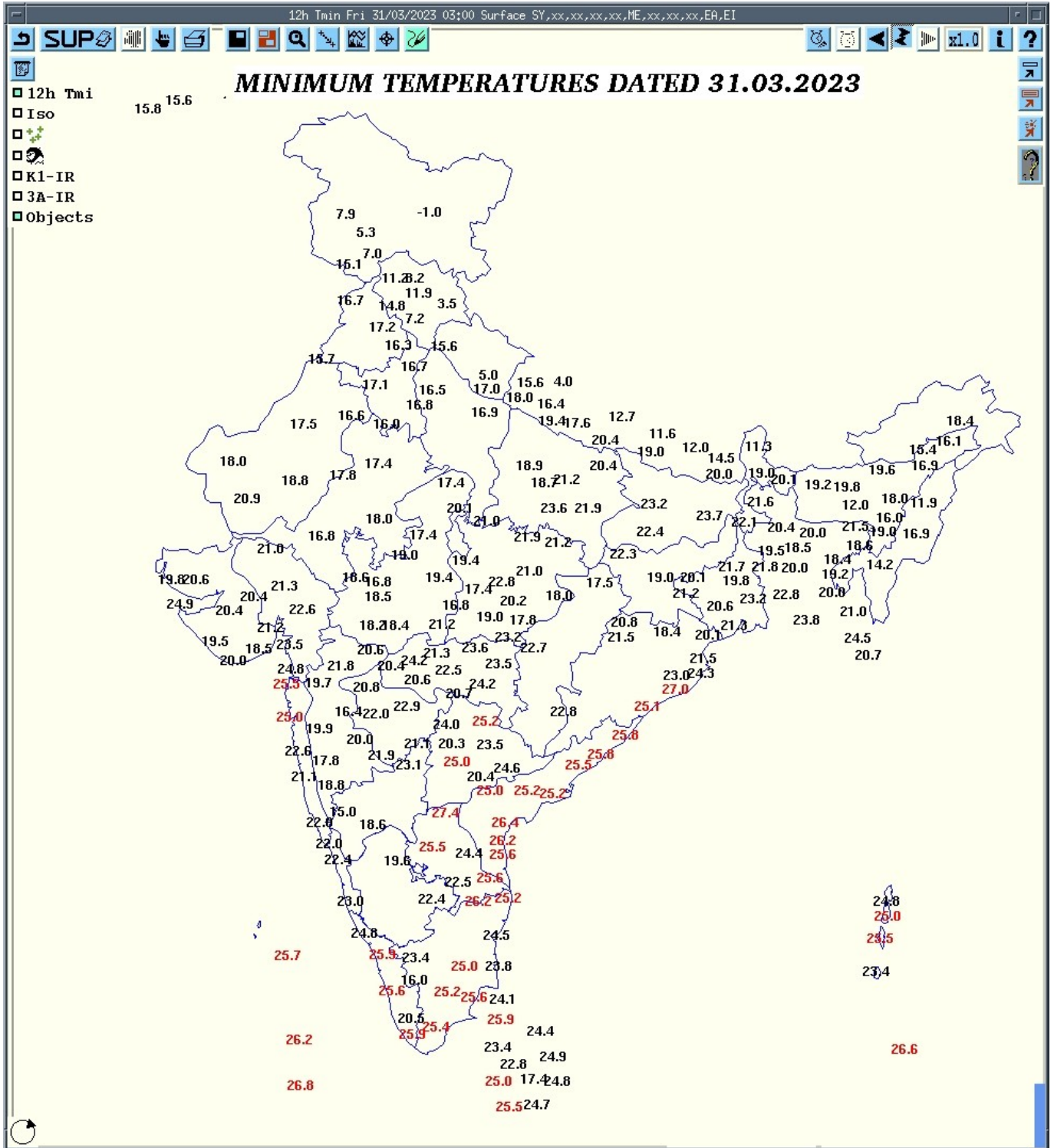
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Fig. 3: Minimum Temperature during past 24 hours



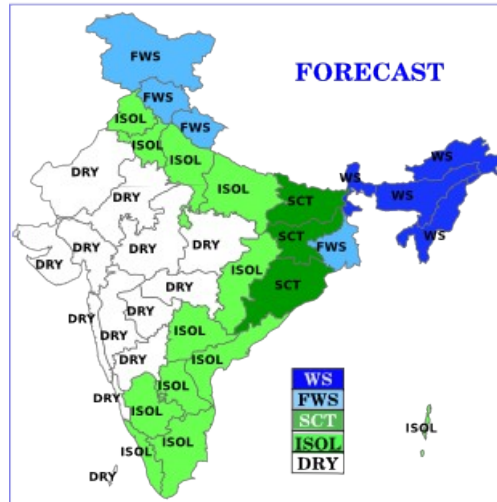
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(Created by the Meteosoft 4.07.0)

Saturday 01 April 2023



01 April (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

♦ **Hailstorm accompanied with thunderstorm, lightning & gusty wind (40-50 kmph)** very likely at isolated places over Assam & Meghalaya and **with thunderstorm & lightning** over Uttarakhand, East Uttar Pradesh.

♦ **Thunderstorm accompanied with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Odisha and Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty wind (30-40 kmph)** at isolated places over Punjab, Haryana, Chandigarh, Delhi, Bihar, Jharkhand, West Bengal Sikkim, Arunachal Pradesh, Rayalaseema, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Telangana, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

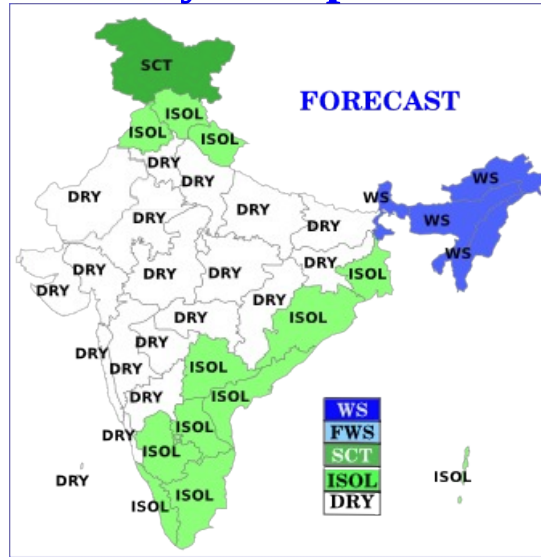
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Sunday 02 April 2023



02 April (Day 2): ♦ Heavy rainfall very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** very likely at isolated places over Coastal Andhra Pradesh Yanam, Rayalaseema, Kerala & Mahe and **with lightning** over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana.

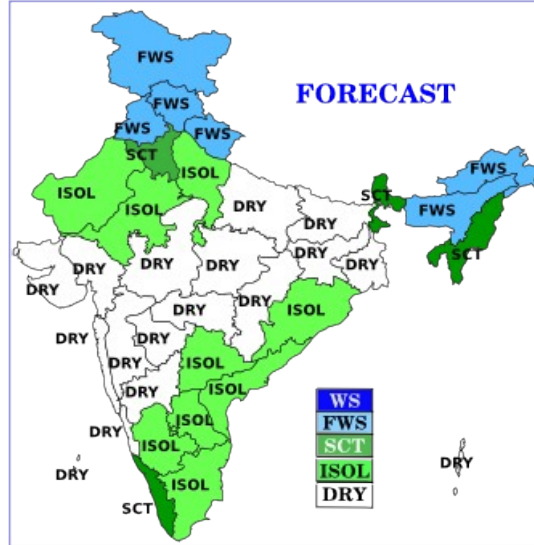
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Monday 03 April 2023



03 April (Day 3): ♦ Hailstorm accompanied with thunderstorm, lightning & gusty wind (30-40 kmph) likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and with thunderstorm & lightning over Himachal Pradesh and Uttarakhand.

♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Rajasthan and with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh and Telangana.

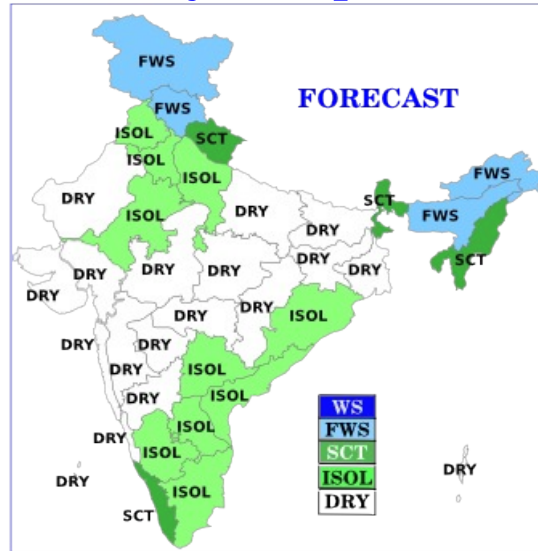
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Tuesday 04 April 2023



04 April (Day 4): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh Yanam, Rayalaseema, Kerala & Mahe and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh and Telangana.

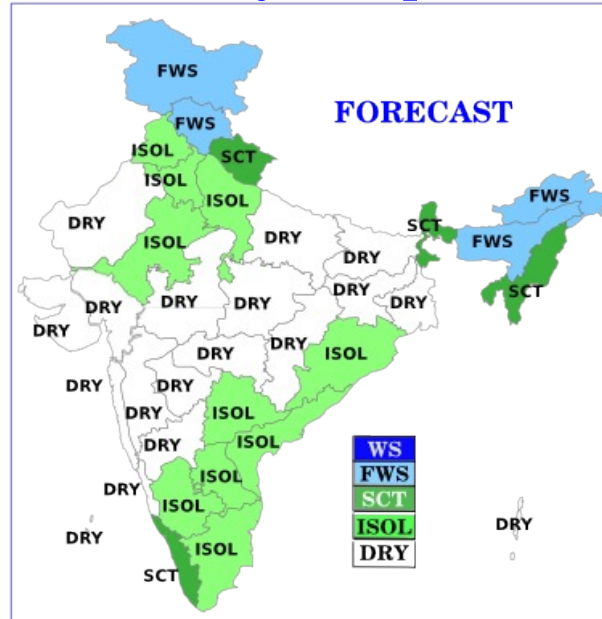
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Wednesday 05 April 2023



05 April (Day 5): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh Yanam, Rayalaseema, Kerala & Mahe and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh and Telangana.

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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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(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.)