



Friday 31 March 2023

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

Northwest India: • Scattered to widespread rainfall/thunderstorm, lightning/gusty winds very likely over the region during 31st March-01st April.

• **Isolated hailstorm** over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Delhi, Uttar Pradesh and East Rajasthan on 31st March.

• **Isolated heavy rainfall** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 31st March.

East India: Scattered to widespread rainfall/thunderstorm, lightning/gusty winds very likely over the region during 31st March-02nd April.

• **Isolated hailstorm** likely over Bihar, Jharkhand, West Bengal & Sikkim and Odisha on 31st March.

Northeast India: • Scattered to widespread light/moderate rainfall/thunderstorm, lightning, gusty winds very likely to continue over Northeast India during 31st March-04th April.

• Isolated **heavy rainfall** likely over Assam & Meghalaya during 31st March- 02nd April; over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura on 01st & 02nd April.

Central India: Isolated rainfall/thunderstorm, lightning/gusty winds very likely over the region on 31st March.

South India: Light isolated rainfall/thunderstorm over the region during next 5 days except over Northern parts of Karnataka.

West India: Light isolated rainfall over the region on 31st March.

Main Weather Observations

♦ **Rainfall/thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday):** at many places over Haryana, Chandigarh & Delhi and Jharkhand; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Rajasthan, East Madhya Pradesh and Chhattisgarh and at isolated places over Himachal Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal.

♦ **Significant amount of rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday)(in cm):** **Tamil Nadu:** Valprai-4, Kodaikanal-1; **West Rajasthan:** Ganganagar-2; **Haryana:** Narnaul-1.

♦ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu & Kashmir, Punjab, Haryana & Delhi, Uttarakhand, Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Tamil Nadu, Puducherry & Karaikal and Tripura.

♦ **Hailstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Delhi.

♦ **Minimum Temperature Departures (as on 30-03-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab; **above normal (1.6°C to 3.0°C)** at many places over Jharkhand, Haryana, Chandigarh & Delhi, Gujarat Region; at a few places over East Uttar Pradesh, West Rajasthan, Madhya Pradesh, Chhattisgarh, Telangana, Saurashtra & Kutch, Andaman & Nicobar Islands and at isolated places over Bihar, Gangetic West Bengal, Odisha, West Uttar Pradesh, East Rajasthan, Vidarbha, Tamilnadu, Puducherry & Karaikal. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Madhya Maharashtra; **below normal (-1.6°C to -3.0°C)** at many places over North Interior Karnataka, Konkan & Goa; at a few places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over Assam & Meghalaya and near normal over rest parts of the country. Yesterday, the **lowest minimum temperature of 15.0°C** was reported at **Narsinghpur (East Madhya Pradesh)** over plains of the country.

♦ **Maximum Temperature Departures (as on 30-03-2023):** Maximum temperatures were **markedly below normal (-5.1°C or less)** at many places over West Rajasthan and Gujarat Region; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Saurashtra & Kutch and Madhya Maharashtra; at isolated places over East Rajasthan and Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Marathwada, Interior Karnataka and Andaman & Nicobar Islands; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Odisha, Telangana and Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature of 40.2°C** was reported at **Wardha & Brahmapuri (Vidarbha)**.

* 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 cyclonic circulation over Afghanistan and adjoining Pakistan now lies over Pakistan & neighbourhood at 3.1 km above mean sea level and the trough aloft in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 69°E to the north of Lat. 22°N.
- ◆ The **cyclonic circulation** over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The **trough/wind discontinuity** now runs from southeast Uttar Pradesh to Kerala across Chattisgarh, Vidarbha, Telangana and Interior Karnataka at 0.9 km above mean sea level.
- ◆ The other **trough** from Sub-Himalayan West Bengal to north Odisha across Gangetic West Bengal persists and seen at 1.5 km above mean sea level.
- ◆ 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 05th April, 2023

- ◆ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ◆ **Northwest India:** Fall by 2-4°C in Maximum Temperatures very likely during next 24 hours and rise by 2-4°C thereafter.
- ◆ **West & Central India:** No significant change in Maximum Temperatures very likely during next 24 hours and rise by 2-3°C thereafter during subsequent 4 days.
- ◆ **East India:** Fall in Maximum Temperatures by 2-4°C 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 05th-07th April, 2023

- ◆ Fairly widespread to widespread light rainfall/thundershowers likely over Western Himalayan Region & Northeast India.
- ◆ Isolated light rainfall/thundershowers over Plains of northwest India, central, east and South Peninsular India.
- ◆ Dry weather likely over rest parts of the country.

Weather Warning during next 5 days *

31 March (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Odisha and Assam & Meghalaya.

♦ **Hailstorm accompanied with thunderstorm, lightning & Squally wind (50-60 kmph)** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Odisha, Bihar and Jharkhand; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan and Assam & Meghalaya and **with lightning & hail** over Himachal Pradesh.

♦ **Thunderstorm accompanied with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty wind (30-40 kmph)** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Kerala & Mahe and Rayalaseema and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, Arunachal Pradesh, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh Yanam and Telangana.

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

♦ **Hailstorm accompanied with thunderstorm & lightning** likely at isolated places over Uttarakhand.

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

02 April (Day 3): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

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

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

04 April (Day 5): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Kerala & Mahe and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana & Chandigarh, Coastal Andhra Pradesh Yanam 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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Table-1
5 Day Rainfall Forecast (MORNING)
31-March-2023

Met-Sub-Division	31-Mar Today	01Apr Sat	02Apr Sun	03Apr Mon	04Apr Tue
1. Andaman & Nicobar Islands	DRY	DRY	DRY	DRY	DRY
2. Arunachal Pradesh	FWS	WS	WS	FWS	FWS
3. Assam & Meghalaya	FWS	WS	WS	SCT	FWS
4. N. M. M. & T.	WS	WS	WS	SCT	SCT
5. S.H. West Bengal & Sikkim	WS	WS	WS	FWS	SCT
6. Gangetic West Bengal	FWS	FWS	ISOL	DRY	DRY
7. Odisha	FWS	SCT	ISOL	ISOL	DRY
8. Jharkhand	FWS	SCT	DRY	DRY	DRY
9. Bihar	FWS	SCT	DRY	DRY	DRY
10. East Uttar Pradesh	FWS	SCT	DRY	DRY	DRY
11. West Uttar Pradesh	FWS	SCT	DRY	ISOL	ISOL
12. Uttarakhand	WS	FWS	ISOL	ISOL	SCT
13. Haryana, Chd & Delhi	WS	ISOL	DRY	ISOL	SCT
14. Punjab	WS	ISOL	ISOL	SCT	SCT
15. Himachal Pradesh	WS	FWS	ISOL	SCT	FWS
16. J & K and Ladakh	FWS	FWS	ISOL	FWS	FWS
17. West Rajsthan	ISOL	DRY	DRY	ISOL	ISOL
18. East Rajasthan	ISOL	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	ISOL	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	ISOL	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	ISOL	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	ISOL	DRY	DRY	DRY	DRY
25. Marathawada	ISOL	DRY	DRY	DRY	DRY
26. Vidharbha	ISOL	DRY	DRY	DRY	DRY
27. Chhattisgarh	SCT	ISOL	DRY	DRY	DRY
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	ISOL	DRY
29. Telangana	ISOL	ISOL	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	ISOL
35. Kerala & Mahe	ISOL	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".

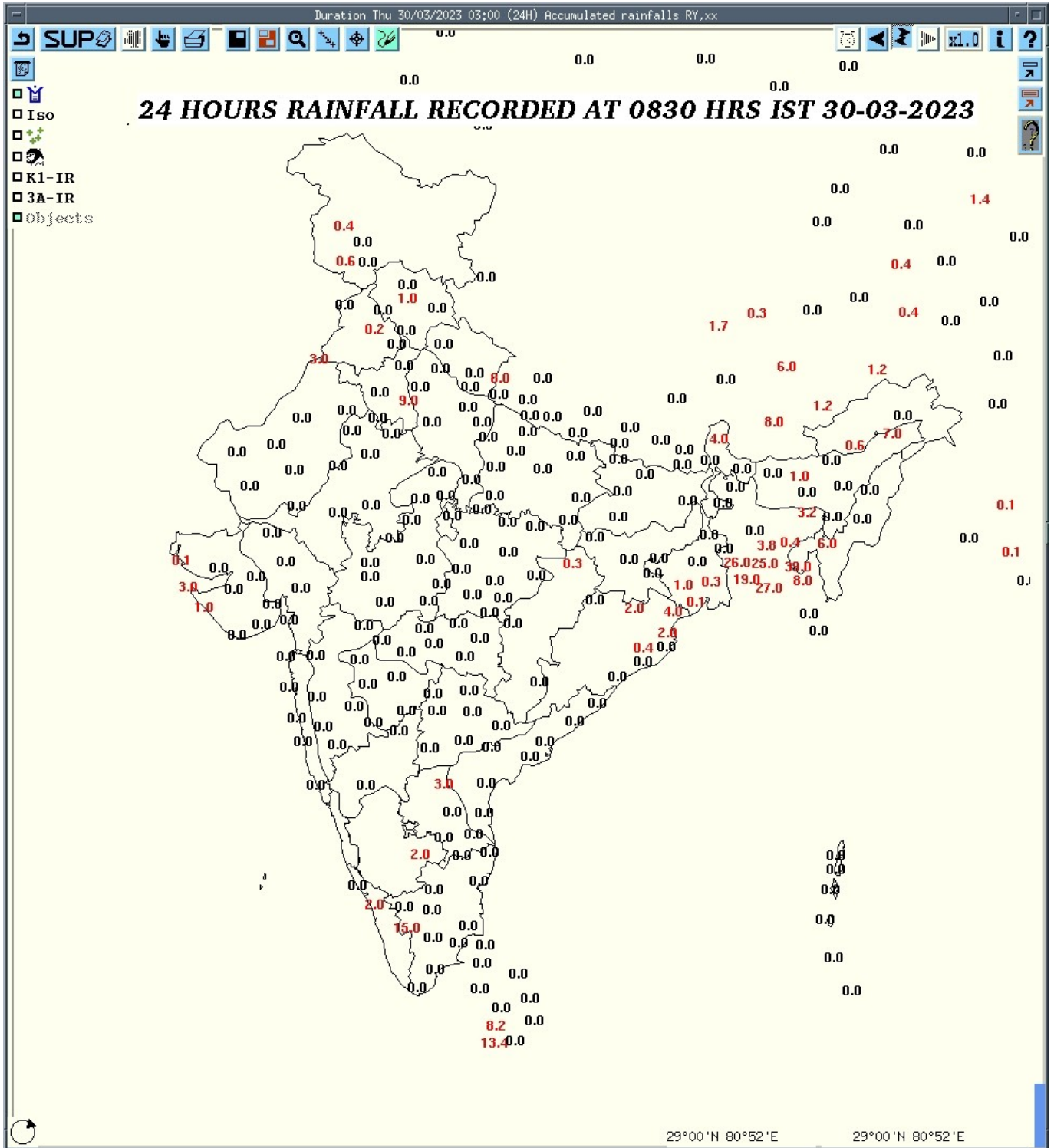
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



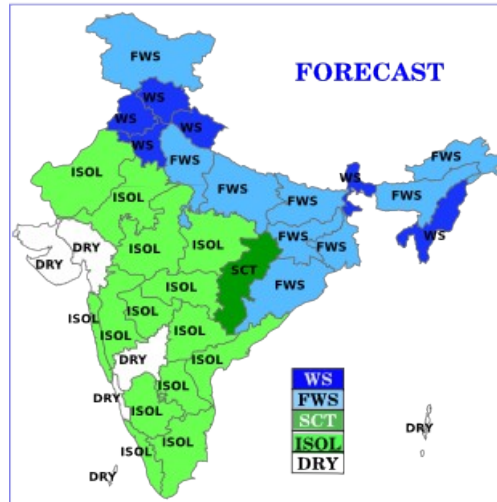
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Friday 31 March 2023



31 March (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Odisha and Assam & Meghalaya.

♦ **Hailstorm accompanied with thunderstorm, lightning & Squally wind (50-60 kmph)** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Odisha, Bihar and Jharkhand; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan and Assam & Meghalaya and **with lightning & hail** over Himachal Pradesh.

♦ **Thunderstorm accompanied with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty wind (30-40 kmph)** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Kerala & Mahe and Rayalaseema and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, Arunachal Pradesh, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh Yanam and Telangana.

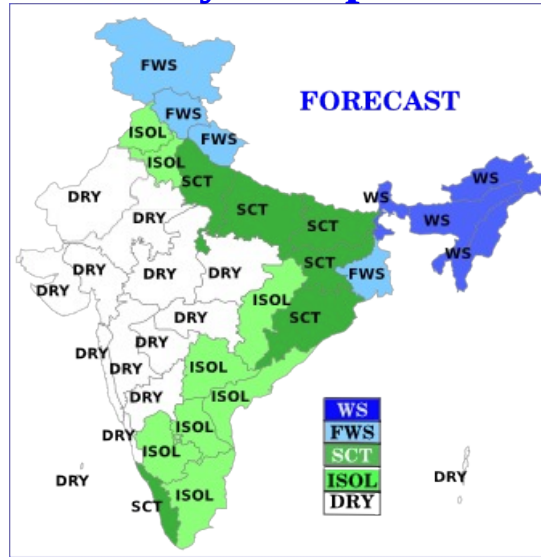
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Saturday 01 April 2023



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

♦ **Hailstorm accompanied with thunderstorm & lightning** likely at isolated places over Uttarakhand.

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

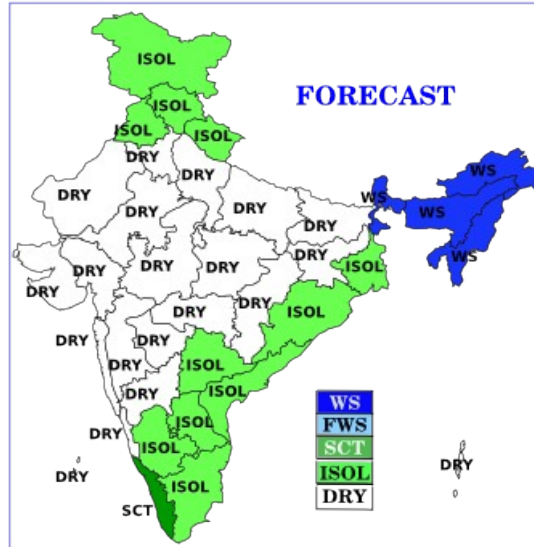
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Sunday 02 April 2023



02 April (Day 3): ♦ Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Kerala & Mahe and West Bengal Sikkim and with lightning over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Coastal Andhra Pradesh Yanam and Telangana.

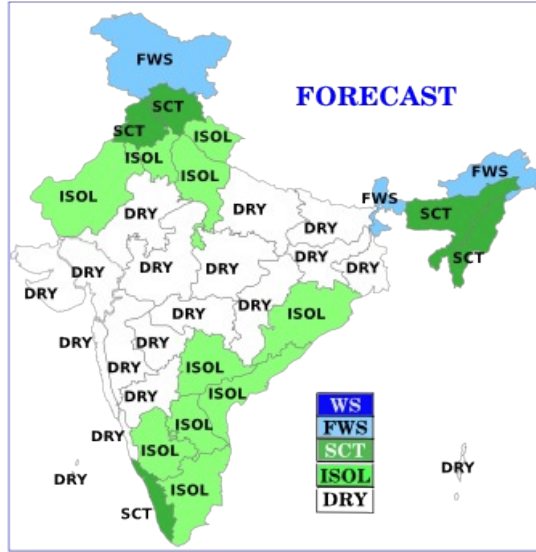
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Monday 03 April 2023



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

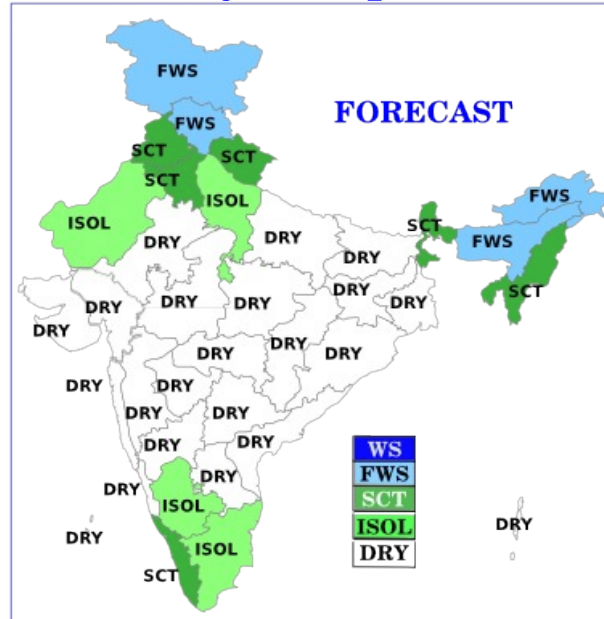
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Tuesday 04 April 2023



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

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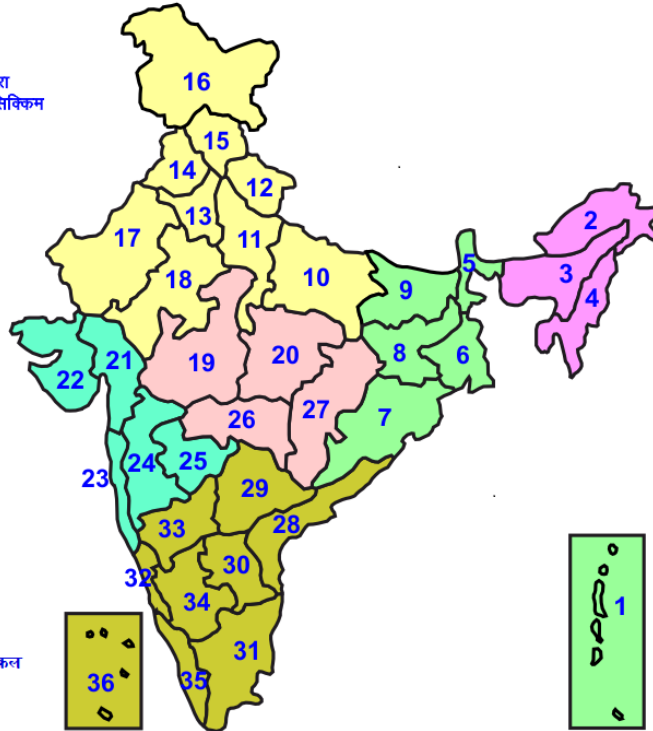
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LEGENDS

- 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)