



Thursday 30 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 fairly widespread rainfall/thunderstorm activity very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and East Rajasthan during 30th March-01st April, 2023. **Isolated hailstorm** activity also likely over the region on 30th & 31st March.
- ◆ **Central India:** Isolated rainfall/thunderstorm activity very likely over Madhya Pradesh, Vidarbha and Chhattisgarh on 30th & 31st and **Isolated hailstorm** likely over Chhattisgarh on 31st March.
- ◆ **East India:** Scattered to fairly widespread rainfall/thunderstorm activity very likely over Bihar, Jharkhand, Odisha and West Bengal & Sikkim during 30th March-01st April. **Isolated heavy rainfall** also likely over Odisha on 31st March. **Isolated hailstorm** likely over the region on 31st March.
- ◆ **Northeast India:** Scattered to fairly widespread light/moderate rainfall activity with thunderstorm & lightning/gusty winds very likely to continue over Northeast India during 30th-02nd April 2023. **Isolated heavy rainfall** also likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during on 31st March - 02nd April; over Arunachal Pradesh on 01st & 02nd 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, Kerala & Mahe, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha and South Interior Karnataka & Yanam.
- ◆ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): **Tamilnadu:** Valprai -1.
- ◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Odisha, Chhattisgarh, Coastal Andhra Pradesh, Kerala & Mahe, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ◆ **Minimum Temperature Departures (as on 29-03-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Odisha and at isolated places over Haryana, Chandigarh & Delhi, East Madhya Pradesh and West Bengal & Sikkim. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Konkan & Goa, Madhya Maharashtra, Konkan & Goa, Coastal & North Interior Karnataka and at isolated places over West Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Marathwada, Vidarbha and Assam & Meghalaya and at isolated places over West Rajasthan and near normal over rest parts of the country. Yesterday, **the lowest minimum temperature of 13.8°C** was reported at **Karnal (Haryana)** over plains of the country.
- ◆ **Maximum Temperature Departures (as on 29-03-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Sub-Himalayan West Bengal & Sikkim. They were **markedly below normal (-5.1°C to -3.0°C)** at a few places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Saurashtra & Kutch and **below normal (-1.6°C to -3.0°C)** at many places over West Rajasthan and East Madhya Pradesh; at a few places over East Rajasthan, Chhattisgarh, Madhya Maharashtra, Telangana and North Interior Karnataka; at isolated places over West Madhya Pradesh and Odisha and near normal over rest parts of the country. Yesterday, **the highest maximum temperature of 40.0°C** was reported at **Adilabad (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

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(Copies to the Meteorologist in Charge)

Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Western Disturbance** as cyclonic circulation over Afghanistan & neighbourhood at 3.1 km above mean sea level persists. However, the trough aloft in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 65°E to the north of Lat. 25°N.
- ◆ The **cyclonic circulation** over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The **trough/wind discontinuity** from central parts of north Madhya Pradesh to south Tamil Nadu across Vidarbha, Telangana and Rayalaseema at 0.9 km above mean sea level persists.
- ◆ The other **trough** from Sub-Himalayan West Bengal to north Odisha across Gangetic West Bengal at 0.9 km above mean sea level persists.
- ◆ A fresh **Western Disturbance** is likely to affect Northwest India from 02nd April, 2023.

Weather Forecast for next 5 days * upto 0830 hours IST of 04th April, 2023

- ◆ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ◆ **Northwest India:** Gradual fall by 2-4°C in Maximum Temperatures very likely during next 4-5 days.
- ◆ **East India:** No significant change in Maximum Temperatures very likely during next 24 hours and fall by 2-4°C thereafter during subsequent 4 days.
- ◆ **West India:** No significant change in Maximum Temperatures very likely over Maharashtra during next 2 days and rise by 2-3°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 04th-06th 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 *

30 March (Day 1): ♦ **Hailstorm/Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** very likely at isolated places over Rajasthan and **with lightning & hail** over Himachal Pradesh, Uttarakhand, Punjab and Haryana, Chandigarh & Delhi.

♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** very likely at isolated places over West Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Arunachal Pradesh, Gujarat state, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh Yanam and Telangana.

31 March (Day 2): ♦ **Heavy rainfall** very likely at isolated places over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

♦ **Hailstorm/Thunderstorm accompanied with lightning & gusty wind (40-50 kmph)** very likely at isolated places over West Bengal & Sikkim, Odisha, Jharkhand; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttar Pradesh, East Rajasthan, Chhattisgarh, Bihar and **with lightning & hail** over Himachal Pradesh, Uttarakhand, Punjab and Haryana, Chandigarh & Delhi.

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

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

♦ **Hailstorm/Thunderstorm accompanied with lightning** likely at isolated places over Uttarakhand.

♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Chhattisgarh, West Bengal & Sikkim, Odisha, Jharkhand, Kerala & Mahe and **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Coastal Andhra Pradesh Yanam and Telangana.

02 April (Day 4): ♦ **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 **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Coastal Andhra Pradesh Yanam and Telangana.

03 April (Day 5): ♦ **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 **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, 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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(Circle to the National flag 1077)



Table-1
5 Day Rainfall Forecast (MORNING)
30-March-2023

Met-Sub-Division	30-Mar Today	31Mar Fri	01Apr Sat	02Apr Sun	03Apr Mon
1. Andaman & Nicobar Islands	ISOL	DRY	DRY	ISOL	ISOL
2. Arunachal Pradesh	FWS	WS	WS	WS	WS
3. Assam & Meghalaya	SCT	WS	WS	WS	WS
4. N. M. M. & T.	SCT	WS	WS	WS	WS
5. S.H. West Bengal & Sikkim	SCT	WS	WS	FWS	FWS
6. Gangetic West Bengal	ISOL	FWS	FWS	ISOL	ISOL
7. Odisha	SCT	FWS	SCT	ISOL	ISOL
8. Jharkhand	ISOL	FWS	SCT	DRY	DRY
9. Bihar	ISOL	FWS	SCT	ISOL	ISOL
10. East Uttar Pradesh	ISOL	FWS	SCT	DRY	DRY
11. West Uttar Pradesh	ISOL	FWS	SCT	DRY	DRY
12. Uttarakhand	SCT	WS	FWS	ISOL	ISOL
13. Haryana, Chd & Delhi	SCT	FWS	ISOL	DRY	ISOL
14. Punjab	FWS	WS	ISOL	ISOL	SCT
15. Himachal Pradesh	FWS	WS	FWS	ISOL	SCT
16. J & K and Ladakh	SCT	FWS	FWS	SCT	FWS
17. West Rajsthan	SCT	ISOL	DRY	DRY	DRY
18. East Rajasthan	SCT	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	ISOL	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	ISOL	DRY	DRY	DRY	DRY
23. Konkan & Goa	ISOL	ISOL	DRY	DRY	DRY
24. Madhya Maharashtra	ISOL	ISOL	DRY	DRY	DRY
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	ISOL	ISOL	ISOL	DRY	DRY
27. Chhattisgarh	ISOL	SCT	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	SCT	SCT	SCT
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		

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

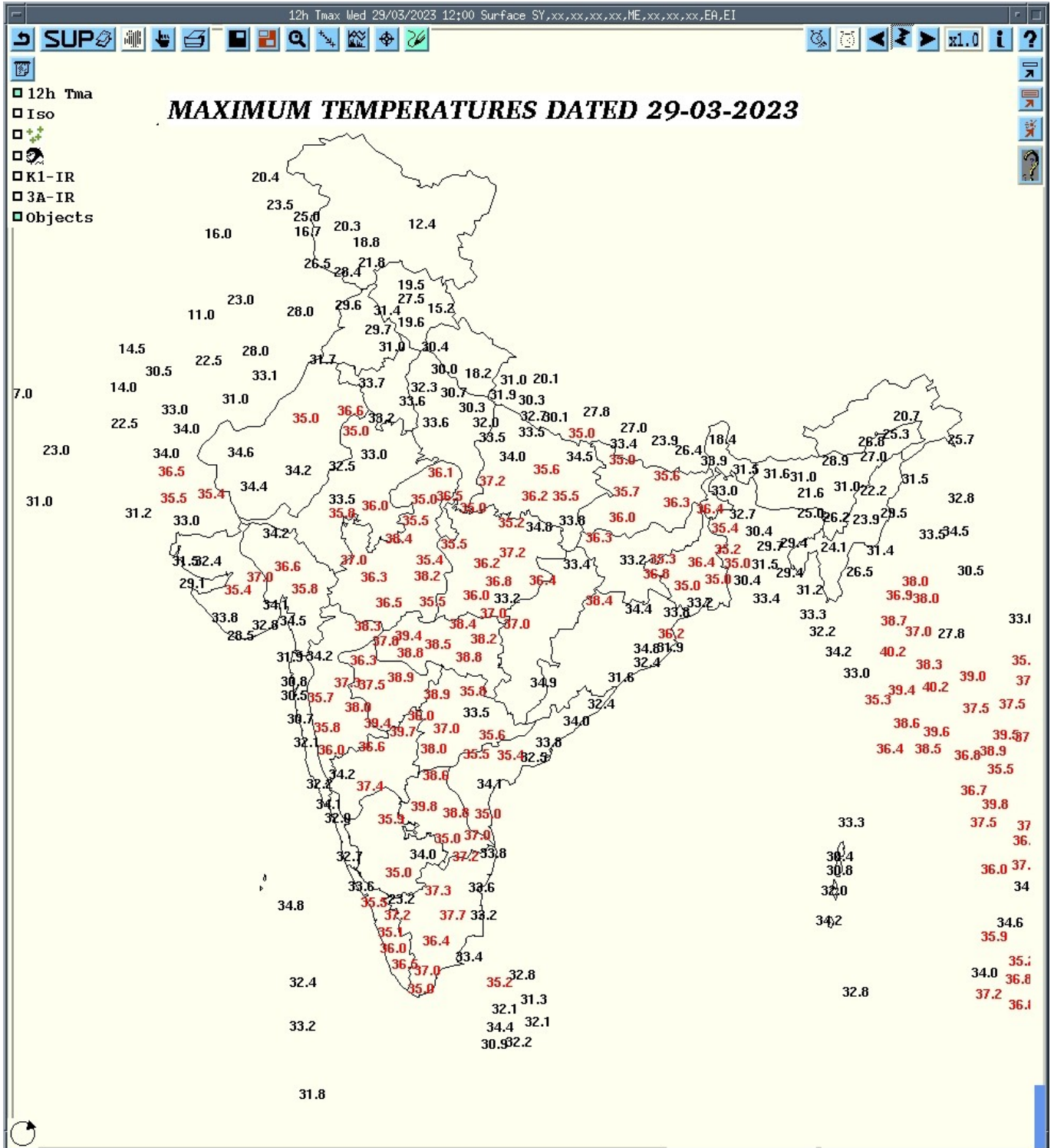
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Fig. 2: Maximum Temperature during past 24 hours



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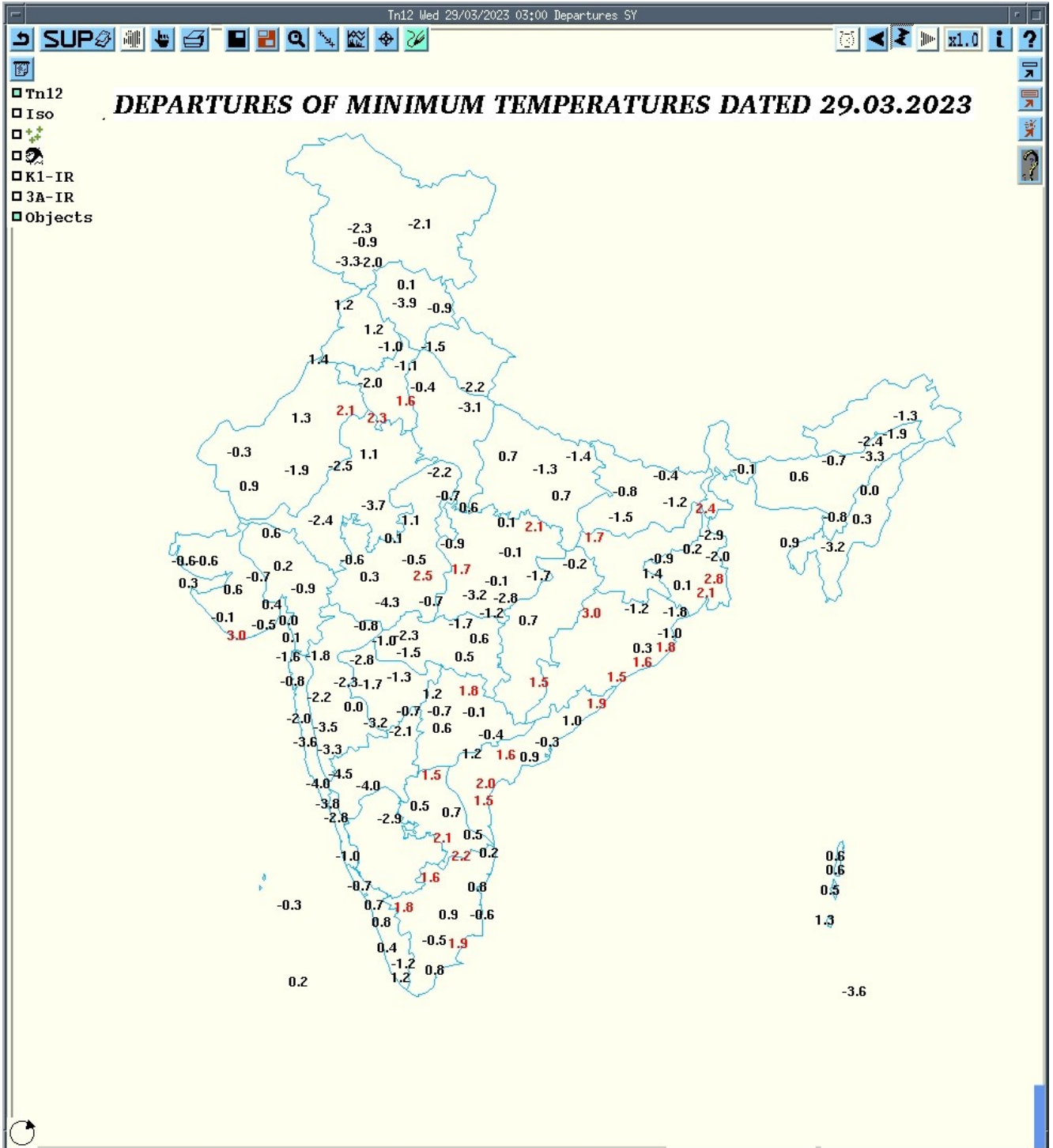
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(Created by the MetInfo app 1/2/20)



Fig. 5: Departure from Normal of Minimum Temperatures



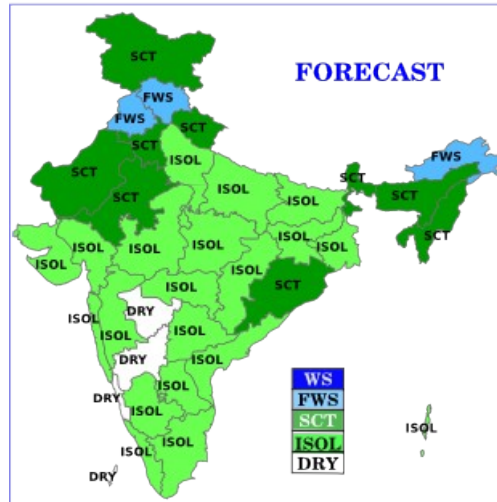
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(Created as the National flag (2022))

Thursday 30 March 2023



30 March (Day 1): ♦ Hailstorm/Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) very likely at isolated places over Rajasthan and with lightning & hail over Himachal Pradesh, Uttarakhand, Punjab and Haryana, Chandigarh & Delhi.

♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) very likely at isolated places over West Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Arunachal Pradesh, Gujarat state, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh Yanam and Telangana.

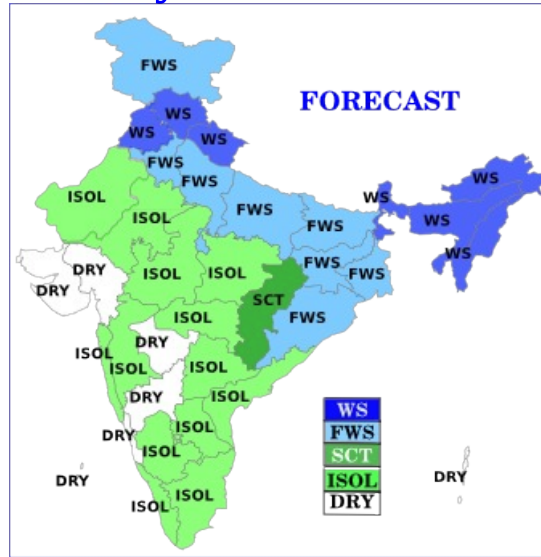
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Friday 31 March 2023



31 March (Day 2): ♦ **Heavy rainfall** very likely at isolated places over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

♦ **Hailstorm/Thunderstorm accompanied with lightning & gusty wind (40-50 kmph)** very likely at isolated places over West Bengal & Sikkim, Odisha, Jharkhand; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttar Pradesh, East Rajasthan, Chhattisgarh, Bihar and **with lightning & hail** over Himachal Pradesh, Uttarakhand, Punjab and Haryana, Chandigarh & Delhi.

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

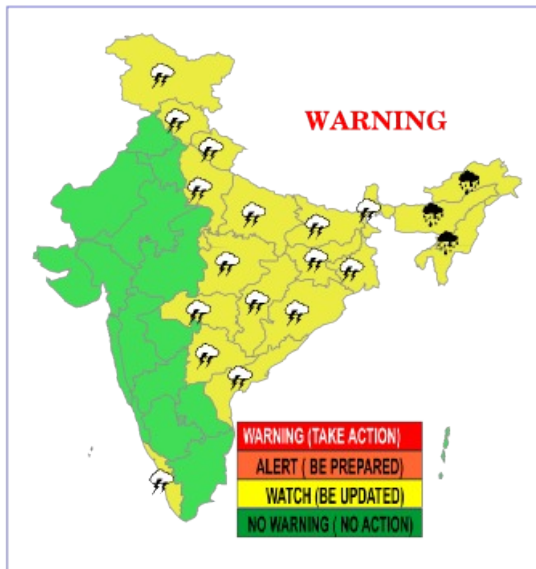
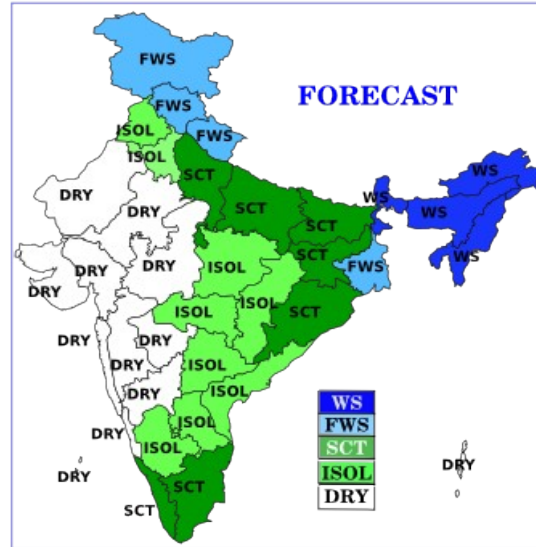
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(Copies to the Meteorologist (GPO))

Saturday 01 April 2023



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

♦ Hailstorm/Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand.

♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Chhattisgarh, West Bengal & Sikkim, Odisha, Jharkhand, Kerala & Mahe and with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Coastal Andhra Pradesh Yanam and Telangana.

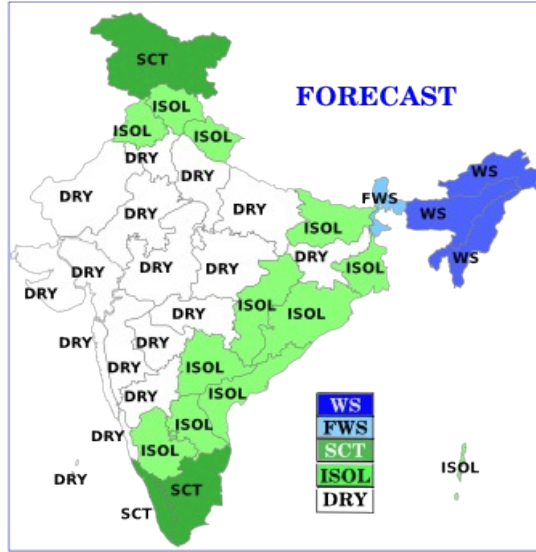
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Sunday 02 April 2023



02 April (Day 4): ♦ 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 with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Coastal Andhra Pradesh Yanam and Telangana.

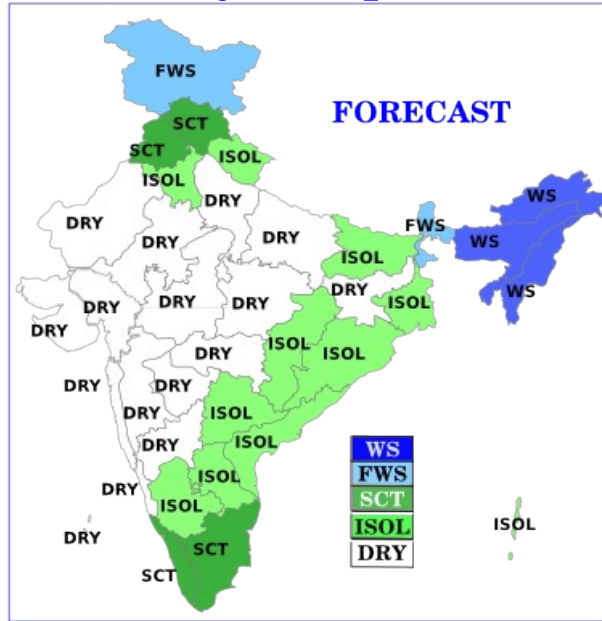
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Monday 03 April 2023



03 April (Day 5): ♦ **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 **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Coastal Andhra Pradesh Yanam 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 एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् 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

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