



Friday 23 July 2021

NIGHT

Time of Issue: 1945 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely to continue over west coast during next 2-3 days with reduction thereafter. Isolated extremely heavy falls also very likely over Konkan & Goa & adjoining Ghat areas of Madhya Maharashtra during 23rd-24th July with reduction thereafter and over Coastal & south Interior Karnataka, today the 23rd July.
- ◆ Scattered to fairly widespread rainfall with isolated heavy falls likely to continue over Gujarat state till 23rd with increase from 24th July. It is likely to increase to fairly widespread to widespread rainfall with isolated heavy to very heavy falls on 24th to 26th July, 2021 and Isolated extremely heavy falls also likely over Gujarat region 25th July.
- ◆ Fairly Widespread to widespread rainfall with isolated heavy to very heavy falls likely to continue over east and adjoining central India during 23rd-25th July with reduction thereafter. Isolated extremely heavy falls also likely over West Madhya Pradesh on 23rd and 24th July and east Madhya Pradesh, Telangana and Odisha today, the 23rd July, 2021.
- ◆ Increase in rainfall activity over northwest India likely over western Himalayan region from 25th July and over adjoining plains from 26th July. Fairly widespread to widespread rainfall with isolated heavy to very heavy falls likely over these areas from 25th and 26th July respectively. Isolated extremely heavy falls also likely over Uttarakhand on 25th and 26th July and over west Uttar Pradesh on 26th July.
- ◆ Very Light to Light rainfall at isolated places very likely to continue till 25th over Delhi and increase from 26th July.

Main Weather Observations

- ◆ **Rain/Thundershowers observed** (from 0830 hours IST to 1730 hours IST of today): **at most places** over West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, North Interior Karnataka and Kerala & Mahe; **at many places** over East Rajasthan, Madhya Pradesh, Odisha, Telangana and Coastal & South Interior Karnataka; **at a few places** over Vidarbha, Andaman & Nicobar Islands, Assam & Meghalaya, Lakshadweep and Tamilnadu, Puducherry & Karaikal and **at isolated places** over Haryana, Uttar Pradesh, West Rajasthan, Saurashtra & Kutch, Bihar, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ◆ **Heavy Rainfall recorded** (from 0830 hours IST to 1730 hours IST of today): **Heavy to Very Heavy Rainfall** at isolated places over Vidarbha, West Madhya Pradesh and Madhya Maharashtra and **Heavy Rainfall** at isolated places over Konkan & Goa.
- ◆ **Significant Rainfall Amount** recorded (from 0830 hours IST to 1730 hours IST of today) (2 cm or more): Mahabaleshwar-18; Khandwa-12; Kolhapur; Gondia-10; Pune-8; Matheran-7; Canning, Shajapur and Satara-5 each; Keongjharh and Hassan-4 each; Shanti Niketan, Kolkata (Dum Dum), Akola, Kanyakumari, Panagarh, Ujjain, Udaipur, Baripada, Belgaum and Palakkad-3 each; Puri, Jharsiguda, Guna, Bhopal, Sangli, Cherrapunji, Bhawanipatna and Dharwad-2 each.
- ◆ **Thunderstorm** observed (from 0830 hours IST to 1730 hours IST of today): at isolated places over Rajasthan, Haryana, Madhya Maharashtra, Assam & Meghalaya, Vidarbha, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh and Chhattisgarh.
- ◆ **Maximum Temperature Departures as on 23-07-2021:** Maximum temperatures are **markedly above normal (5.1°C or more)** at isolated places over Arunachal Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at many places over Assam & Meghalaya; at isolated places over East Madhya Pradesh and Saurashtra & Kutch; **above normal (1.6°C to 3.1°C)** at many places over Bihar, East Uttar Pradesh and Uttarakhand; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at isolated places over Rajasthan and West Uttar Pradesh. They are **markedly below normal (-5.1°C or less)** at isolated places over West Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Vidarbha and Interior Karnataka; at a few place over Rayalaseema; at isolated places over Telangana, Odisha and Madhya Maharashtra; **below normal (-1.6°C to -3.0°C)** at many places over Coastal Andhra Pradesh & Yanam and Marathwada; at a few places over Tamilnadu, Puducherry & Karaikal; at isolated places over Gangetic West Bengal and Konkan & Goa and near normal over rest parts of the country. Today, the highest **maximum temperature of 40.2°C** reported at **Phalodi (West Rajasthan)**.
- ◆ **Minimum Temperature Departures as on 23-07-2021:** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over Sub-Himalayan West Bengal & Sikkim and Bihar; **above normal (1.6°C to 3.0°C)** at many places over Gujarat Sate, Punjab, Karnataka; at a few places over West Rajasthan, Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal and at isolated places over Odisha, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura. They are **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Telangana; **below normal (-1.6°C to -3.0°C)** at many places over North Interior Karnataka and Coastal Andhra Pradesh & Yanam; at a few places over Madhya Maharashtra and at isolated places over Madhya Pradesh and **near normal** over rest parts of the country. Today, the lowest **minimum temperature of 17.6°C** is reported at **Bidar (North Interior Karnataka)**.

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Meteorological Analysis (Based on 1730 hours IST)

- ◆ The Well Marked Low Pressure Area over Northwest Bay of Bengal off north Odisha-West Bengal coasts with the associated cyclonic circulation extending upto 5.8 km above mean sea level persists.
- ◆ The Monsoon Trough at mean sea level now passes through Bikaner, Jaipur, Guna, Satna, Ambikapur, Ranchi, centre of Well Marked Low Pressure Area over Northwest Bay of Bengal and thence southeastwards to eastcentral Bay of Bengal extending upto 1.5 km above mean sea level.
- ◆ The off-shore trough at mean sea level from Maharashtra coast to north Kerala coast persists.
- ◆ The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 62°E to the north of Lat. 30°N.
- ◆ The cyclonic circulation over Southwest Rajasthan & neighbourhood between 3.1 & 4.5 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 28th July, 2021

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures over most parts of the country during next 5 days.

Weather Outlook for subsequent 2 days from 28th July 2021 to 30th July 2021

- ◆ Active monsoon conditions likely to prevail over the country.
- ◆ Widespread rainfall with isolated heavy to very heavy falls likely over Western Himalayan Region, parts of East India and along the west coast. Scattered rainfall activity likely over rest part of the country except interior Maharashtra, Telangana, Coastal Andhra Pradesh, Rayalaseema, Interior Karnataka and Tamilnadu where isolated rainfall is likely.

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Weather Warning during next 5 days *

23 July (Day 1): ♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Rainfall** very likely at isolated places over Konkan & Goa; **Heavy to Very Heavy Rainfall** with **Extremely Heavy Rainfall** at isolated places over Madhya Pradesh, Odisha, Madhya Maharashtra, Telangana, Coastal Karnataka and South Interior Karnataka; **Heavy to Very Heavy Rainfall** at isolated places over Vidarbha, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and North Interior Karnataka and **Heavy rainfall** at isolated places over Rajasthan, Gangetic West Bengal, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Gujarat Region and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** & gusty wind (**speed 30-40 kmph**) very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

♦ **Strong winds (speed 50-60 kmph gusting to 70 kmph)** very likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; (**speed 40-50 kmph gusting to 60 kmph**) over Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

24 July (Day 2): ♦ **Heavy to Very Heavy Rainfall** with **Extremely Heavy Rainfall** very likely at isolated places over Konkan & Goa, West Madhya Pradesh and Madhya Maharashtra; **Heavy to Very Heavy Rainfall** at isolated places over East Rajasthan, East Madhya Pradesh, Gujarat Region and Coastal Karnataka and **Heavy rainfall** at isolated places over Andaman Islands, Odisha, Jharkhand, Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Interior Karnataka and Telangana.

♦ **Thunderstorm accompanied with lightning** & gusty wind (**speed 40-50 kmph**) very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

♦ **Strong winds (speed 50-60 kmph gusting to 70 kmph)** very likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; (**speed 40-50 kmph gusting to 60 kmph**) over Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

25 July (Day 3): ♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Rainfall** very likely at isolated places over Uttarakhand; **Heavy to Very Heavy Rainfall** with **Extremely Heavy Rainfall** at isolated places over Gujarat Region; **Heavy to Very Heavy Rainfall** at isolated places over East Rajasthan, West Uttar Pradesh, Konkan & Goa and Madhya Maharashtra and **Heavy rainfall** at isolated places over Himachal Pradesh, East Uttar Pradesh, Andaman Islands, Odisha, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Saurashtra & Kutch, Kerala & Mahe and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** & gusty wind (**speed 40-50 kmph**) very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas. Madhya Pradesh, State, Kerala & Mahe and Coastal Karnataka.

26 July (Day 4): ♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Rainfall** likely at isolated places over Uttarakhand; **Heavy to Very Heavy Rainfall** with **Extremely Heavy Rainfall** at isolated places over West Uttar Pradesh; **Heavy to Very Heavy Rainfall** at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Arunachal Pradesh and Assam & Meghalaya and **Heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Bihar, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Gujarat State, Kerala & Mahe and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** & gusty wind (**speed 30-40 kmph**) likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Odisha, Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

27 July (Day 5): ♦ **Heavy to Very Heavy Rainfall** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Odisha and Assam & Meghalaya and **Heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, Punjab, West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Gujarat Region.

♦ **Thunderstorm accompanied with lightning** & gusty wind (**speed 30-40 kmph**) likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

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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National Weather Forecasting Centre
India Meteorological Department
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Table-1
5 Day Rainfall Forecast (NIGHT)
23-July-2021

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

% Station Reporting Rainfall

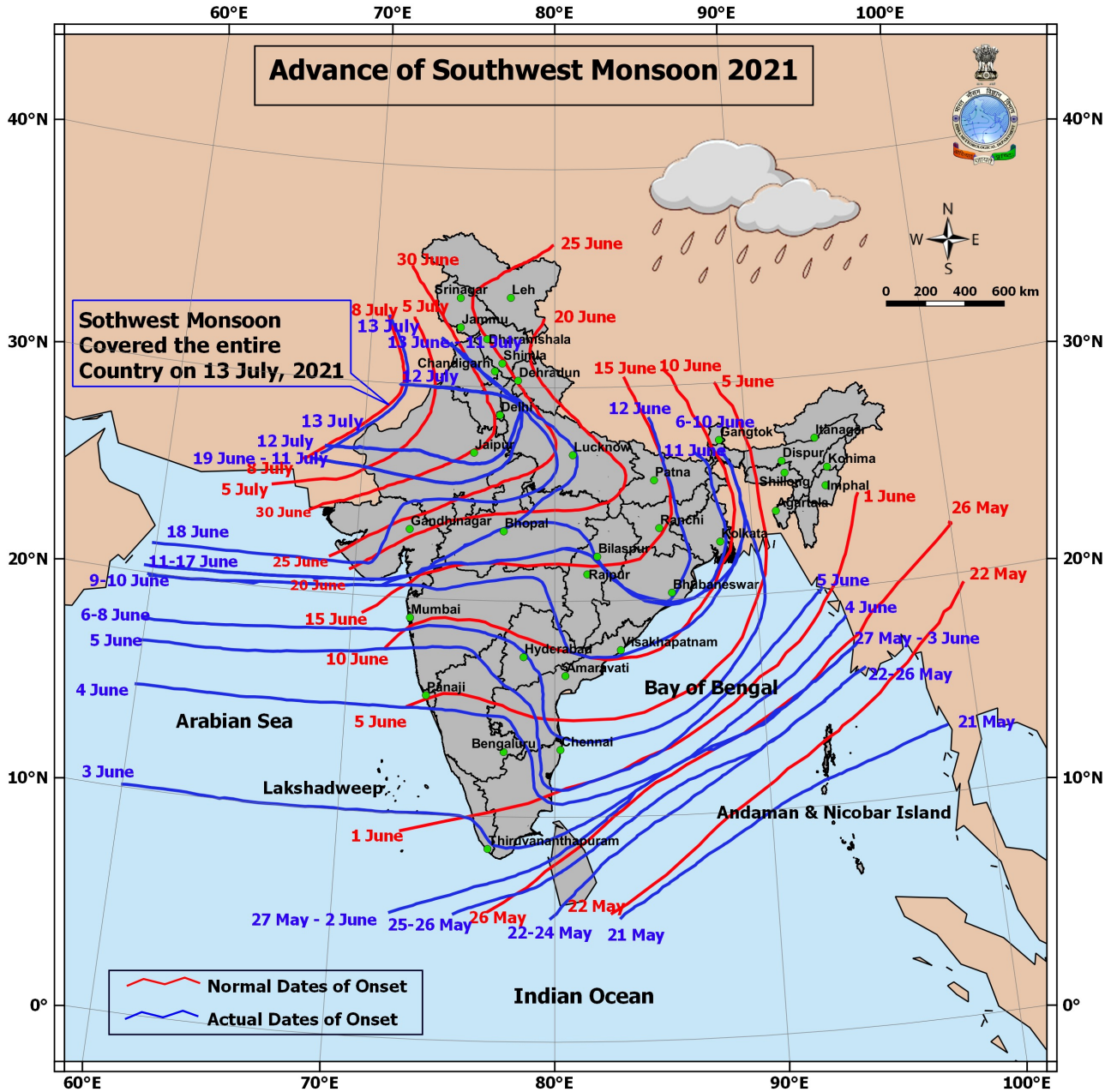
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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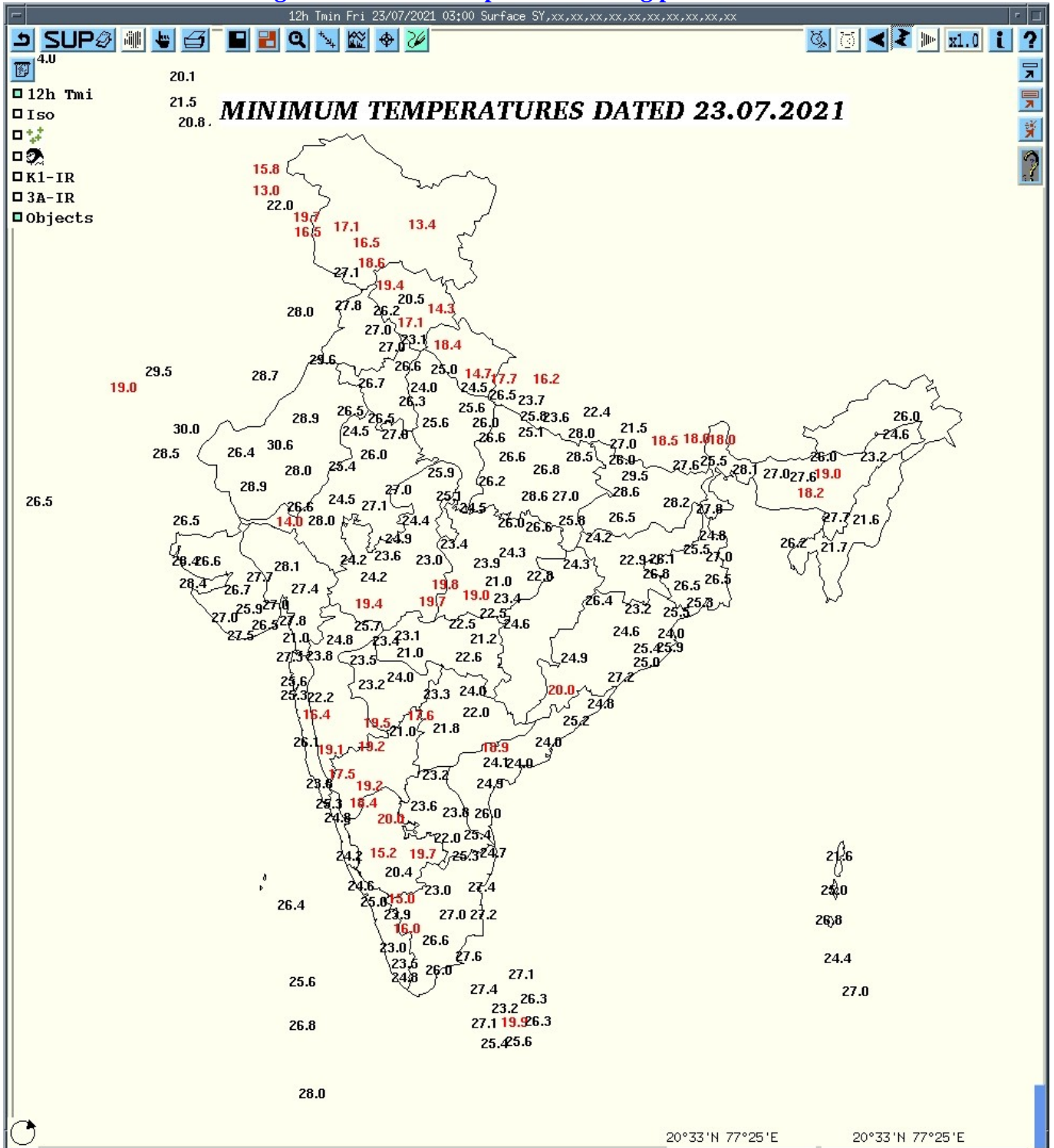
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(Created by the MetInfo app 10/7/2021)



Fig. 3: Minimum Temperature during past 24 hours



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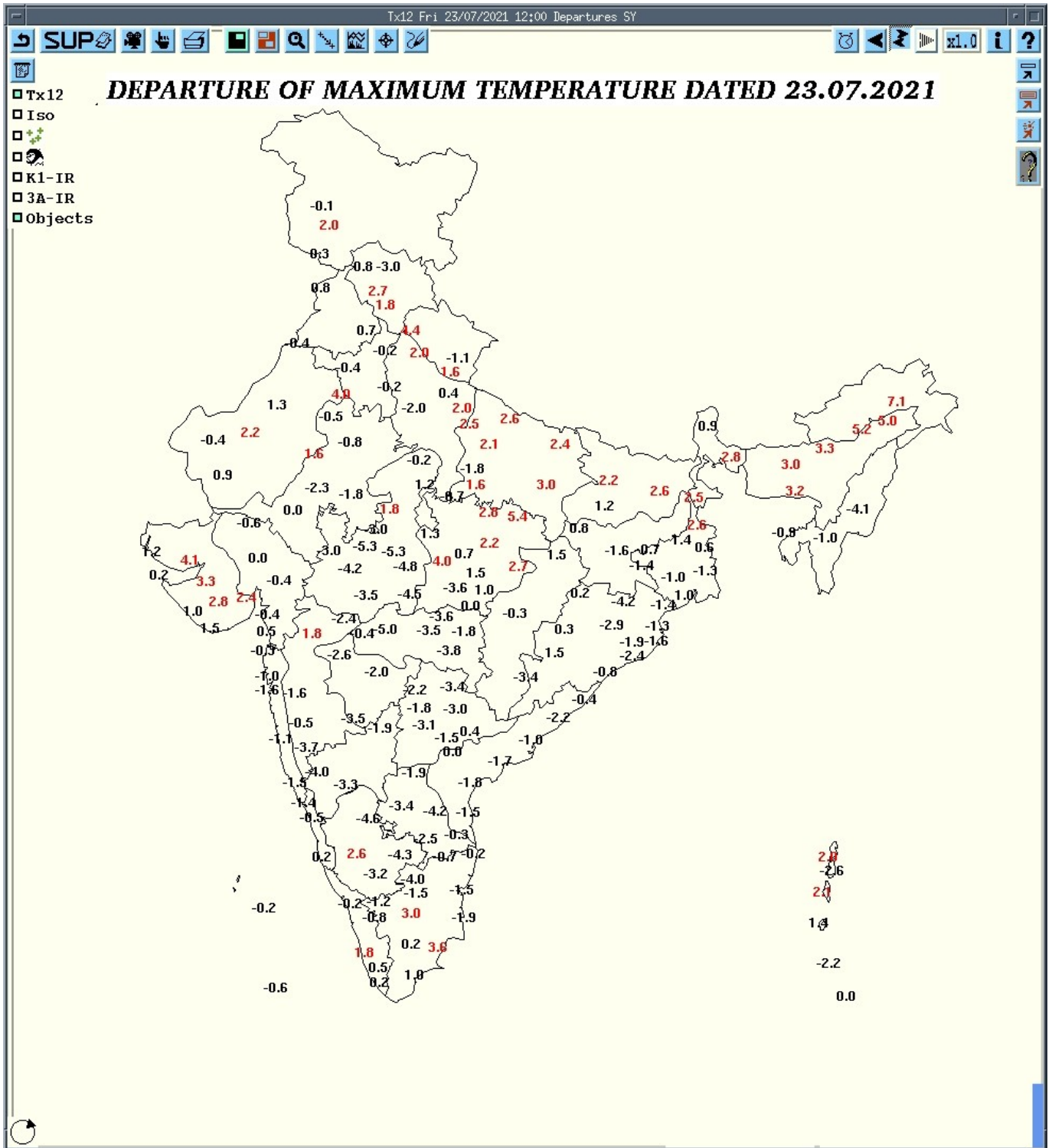
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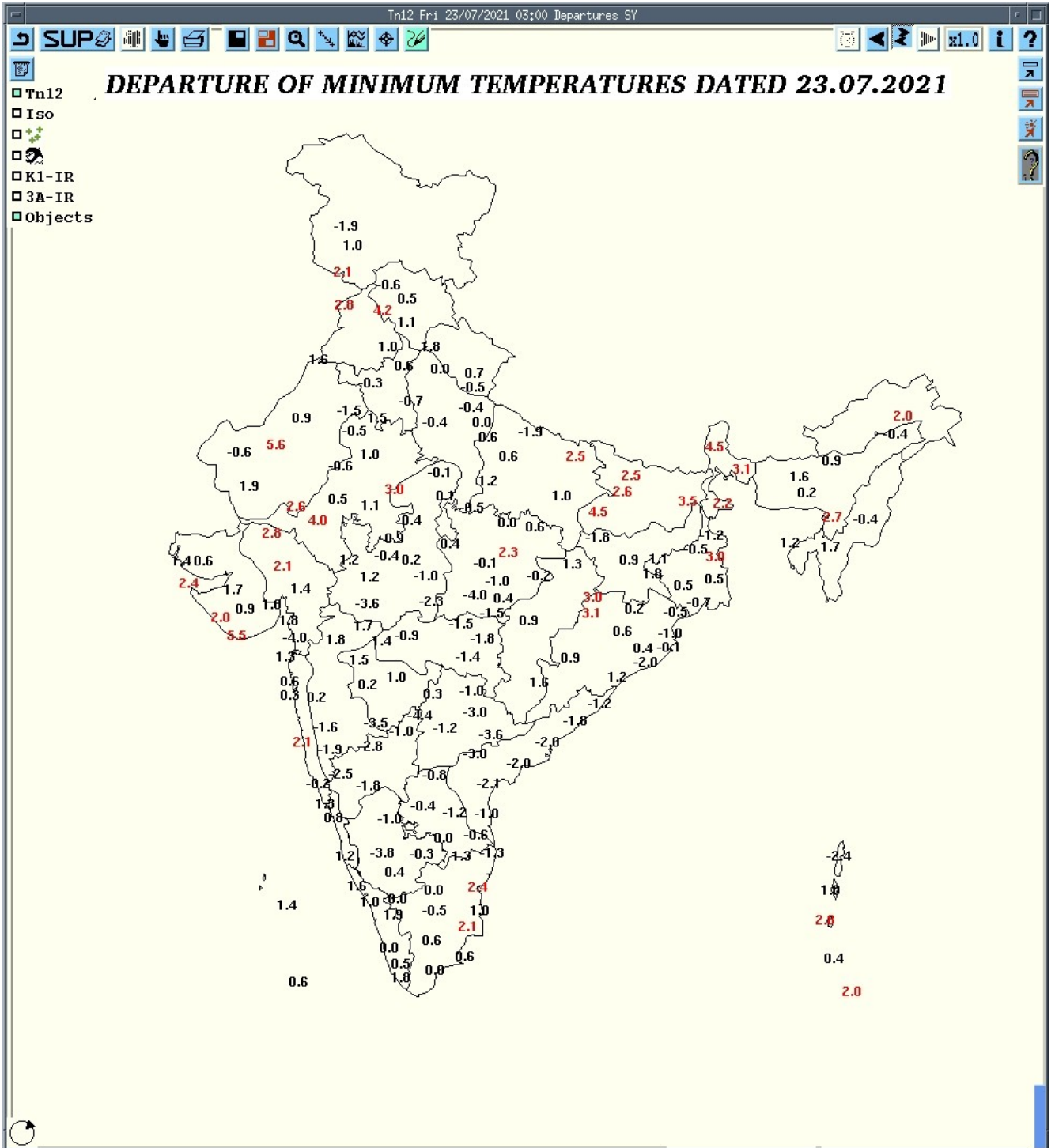
Fig. 4 : Departure from Normal of Maximum Temperatures



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Fig. 5 : Departure from Normal of Minimum Temperatures



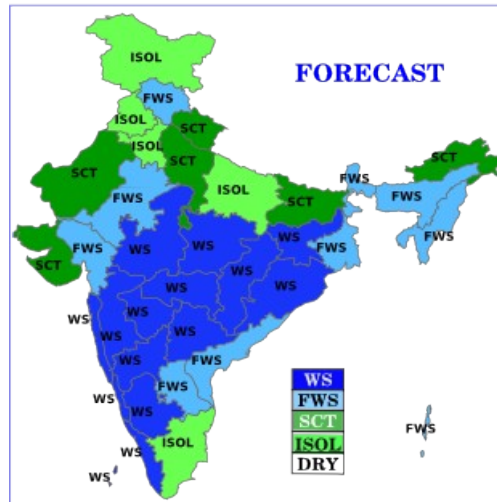
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Friday 23 July 2021



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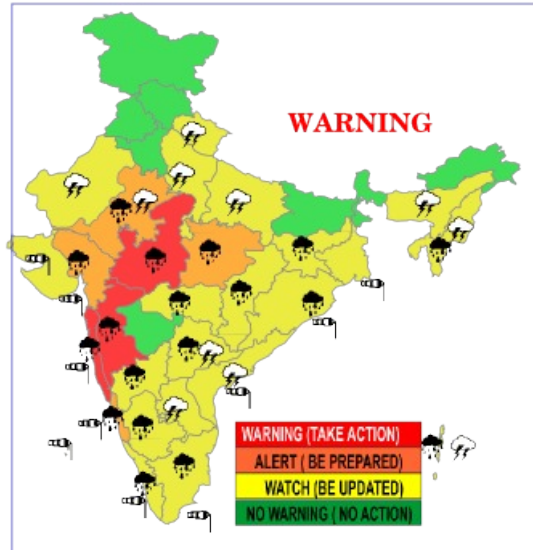
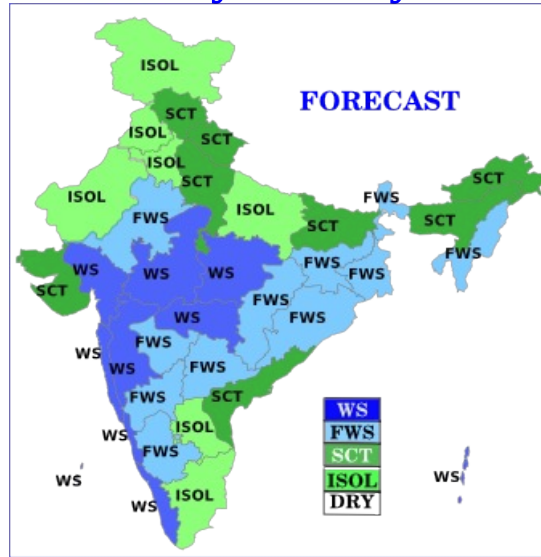
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Saturday 24 July 2021



24 July (Day 2): ♦ **Heavy to Very Heavy Rainfall** with **Extremely Heavy Rainfall** very likely at isolated places over Konkan & Goa, West Madhya Pradesh and Madhya Maharashtra; **Heavy to Very Heavy Rainfall** at isolated places over East Rajasthan, East Madhya Pradesh, Gujarat Region and Coastal Karnataka and **Heavy rainfall** at isolated places over Andaman Islands, Odisha, Jharkhand, Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Interior Karnataka and Telangana.

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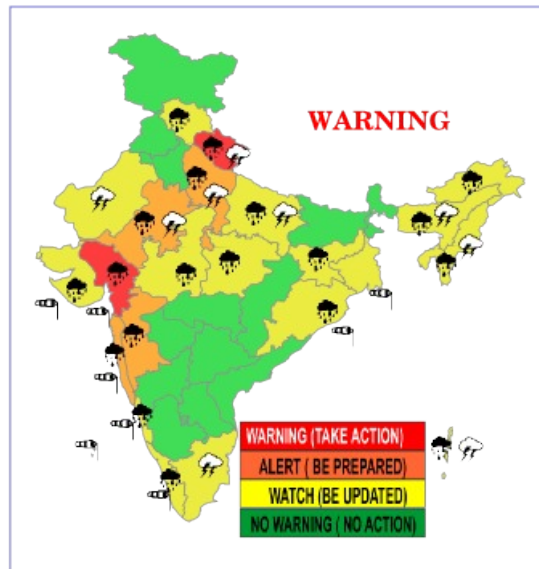
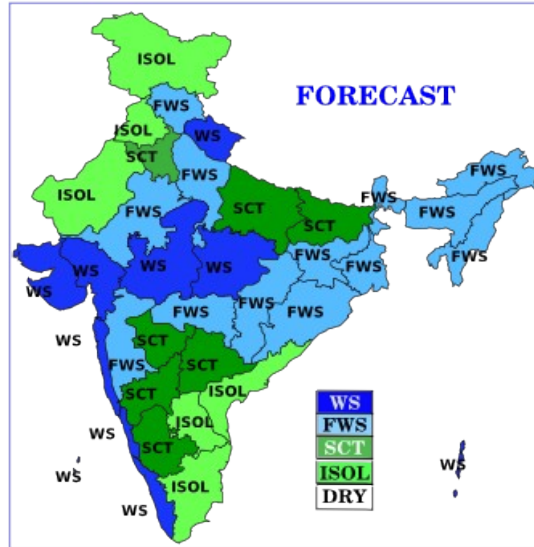
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Sunday 25 July 2021



25 July (Day 3): ♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Rainfall** very likely at isolated places over Uttarakhand; **Heavy to Very Heavy Rainfall** with **Extremely Heavy Rainfall** at isolated places over Gujarat Region; **Heavy to Very Heavy Rainfall** at isolated places over East Rajasthan, West Uttar Pradesh, Konkan & Goa and Madhya Maharashtra and **Heavy rainfall** at isolated places over Himachal Pradesh, East Uttar Pradesh, Andaman Islands, Odisha, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Saurashtra & Kutch, Kerala & Mahe and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** & gusty wind (speed 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puduchery & Karaikal.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas. Madhya Pradesh, State, Kerala & Mahe and Coastal Karnataka.

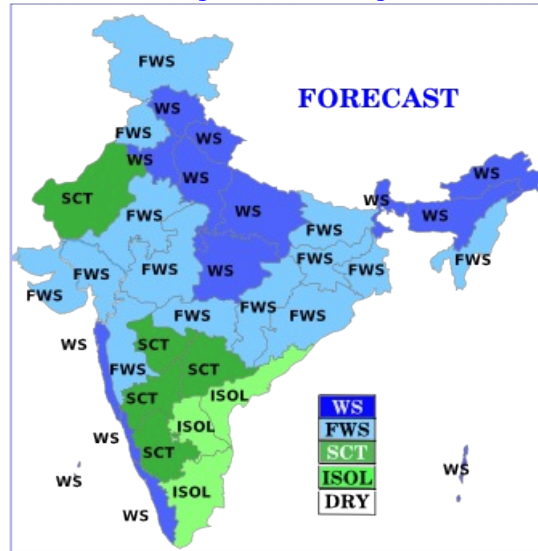
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Ministry since 1970)

Monday 26 July 2021



26 July (Day 4): ♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Rainfall** likely at isolated places over Uttarakhand; **Heavy to Very Heavy Rainfall** with **Extremely Heavy Rainfall** at isolated places over West Uttar Pradesh; **Heavy to Very Heavy Rainfall** at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Arunachal Pradesh and Assam & Meghalaya and **Heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Bihar, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Gujarat State, Kerala & Mahe and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** & gusty wind (speed 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Odisha, Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

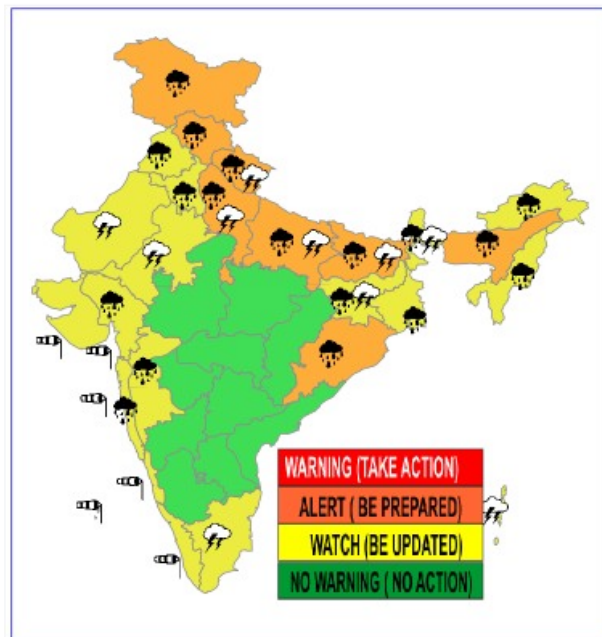
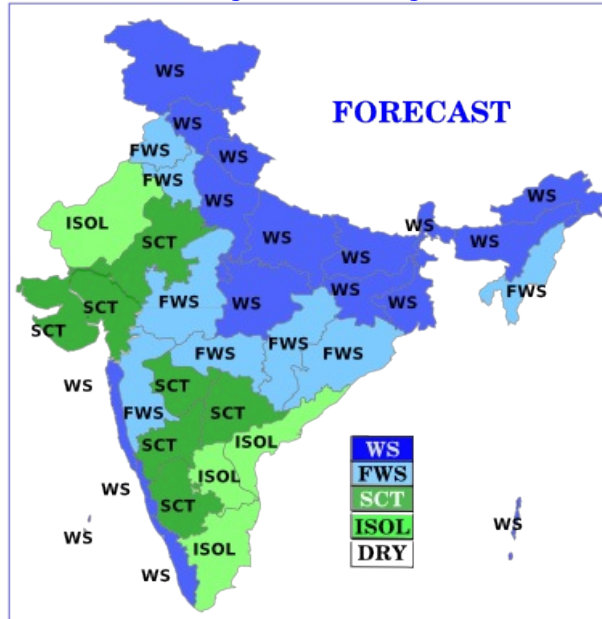
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(Circle as the National flag 497)

Tuesday 27 July 2021



27 July (Day 5): ♦ **Heavy to Very Heavy Rainfall** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Odisha and Assam & Meghalaya and **Heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, Punjab, West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Gujarat Region.

♦ **Thunderstorm accompanied with lightning & gusty wind (speed 30-40 kmph)** likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal.

♦ **Strong winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off Gujarat-Maharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; North Arabian Sea and along & off West Bengal and Odisha coasts; South & adjoining Central Bay of Bengal & Andaman Sea and south Tamilnadu & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

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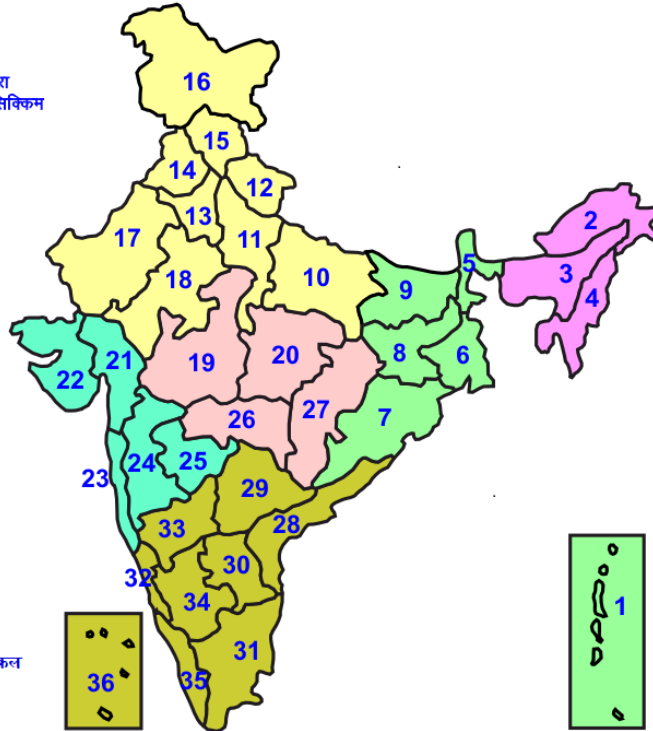
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LEGENDS

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

(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 $\leq -4.5^{\circ}\text{C}$ or 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)

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