



Saturday 20 August 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The **Deep Depression** over Northwest & adjoining Northeast Bay of Bengal moved west-northwestwards during past 06 hours with a speed of 14 kmph and lay centered at 1730 hrs IST of today, the 19th August, 2022 over northwest Bay of Bengal near latitude 21.5°N and longitude 88.1°E, about 20 km south of Sagar Islands (West Bengal), 60 km east-southeast of Digha (West Bengal) and 120 km east of Balasore (Odisha). Continuing to move west-northwestwards, the system crossed West Bengal and adjoining North Odisha coasts between Balasore and Sagar Islands, close to Digha during 1900 to 2000 hours IST of 19th August, 2022. It would continue to move west northwestwards across West Bengal, north Odisha and Jharkhand towards north Chhattisgarh during next 24 hours and weaken gradually.
- ◆ The **Well Marked Low Pressure Area** now seen as a **Low Pressure Area** over southeast Pakistan & neighbourhood.
- ◆ The western end of the **monsoon trough** at mean sea level runs along the foothills of Himalayas and its eastern end is likely to runs its near normal position.
- ◆ **Forecast & Warning:**
 - (i) Fairly widespread/widespread rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Odisha on 20th & 23rd; Jharkhand and Telangana on 20th; Chhattisgarh and East MP during 20th-21st; Vidarbha on 20th & 21st; West Madhya Pradesh and Konkan & Goa during 20th-22nd; East Rajasthan during 20th-23rd; West Rajasthan on 22nd & 23rd; Madhya Maharashtra during 20th-22nd; Gujarat Region during 21st-23rd and Saurashtra & Kutch on 23rd August, 2022.
 - a.) Isolated/Scattered **heavy to very heavy rainfall** likely over Odisha, Jharkhand and Vidarbha on 20th; East Madhya Pradesh and East Rajasthan, Konkan & Goa and Madhya Maharashtra on 21st Gujarat Region on 21st & 22nd and West Rajasthan on 23rd August, 2022.
 - b.) **Isolated extremely heavy rainfall also likely over north Chhattisgarh & East Madhya Pradesh on 20th and over West Madhya Pradesh on 21st and East Rajasthan on 22nd August, 2022.**
 - (ii) Fairly widespread/widespread rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Himachal Pradesh and Uttarakhand 20th. Scattered/Fairly widespread light/moderate rainfall with isolated heavy falls and thunderstorm/lightning very likely over north Haryana & Chandigarh; East Uttar Pradesh and West Uttar Pradesh on 20th August, 2022.
 - (iii) Scattered/Fairly widespread rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Assam & Meghalaya on 20th & 24th and over Nagaland, Manipur, Mizoram & Tripura on 20th, 23rd & 24th August, 2022.

Main Weather Observations

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(Copies to the Meteorologist (077))

◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Uttarakhand, Chhattisgarh, Jharkhand; at many places over Himachal Pradesh, Bihar, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka; at a few places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Kerala & Mahe and at isolated places over Haryana, Chandigarh & Delhi, Vidarbha and Telangana.

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

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(2 cm or more):** Angul, Haldia-5 each; Jagdalpur, Digha, Diamond Harbour & Mahabaleshwar-4 each; Mukteshwar, Gorakhpur, Muzaffarpur, Gangtok & Tadong-3 each and Shimla, Gaya, Ranchi, Umaria, Aurangabad & Canning-2 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Himachal Pradesh, Chandigarh, Uttarakhand, East Uttar Pradesh, Bihar, Gangetic West Bengal, Telangana, Saurashtra & Kutch, Nagaland, Manipur, Mizoram & Tripura and Odisha.

◆ **Minimum Temperature Departures (as on 19-08-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Uttarakhand and Punjab; at many places over Bihar and Vidarbha; at a few places over Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Uttar Pradesh and Telangana. They were below normal (-1.6°C to -3.0°C) at isolated places over Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal; at isolated places over West Rajasthan and Odisha and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 21.0°C was reported at Narsinghpur (East Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 19-08-2022):** Maximum temperatures were markedly above normal (5.1°C to more) at a few places over Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at isolated places over Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over West Uttar Pradesh, Vidarbha, Arunachal Pradesh; at many places over Punjab, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Kerala & Mahe; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Madhya Pradesh, Chhattisgarh, Bihar and Telangana. They were appreciably below normal (3.1°C to 5.0°C) at many places over West Rajasthan; at a few places over Himachal Pradesh and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over Odisha; at isolated places over Gujarat Region and near normal over rest parts of the country. Today, the highest maximum temperature of 38.6°C was reported at Itanagar (Arunachal Pradesh).

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Meteorological Analysis (Based on 0530 hours IST)

◆ The **Deep Depression** over coastal areas of West Bengal & adjoining north Odisha moved west-northwestwards during past 06 hours with a speed of 18 kmph and lay centered at 0530 hrs IST of today, the 20th August, 2022 over south Jharkhand and neighborhood near latitude 22.5°N and longitude 86.0°E, about 40 km south-southwest of Jamshedpur (Jharkhand), about 120 km southeast of Ranchi (Jharkhand) and about 220 km east-northeast of Jharsuguda (Odisha). It would continue to move west-northwestwards across Jharkhand adjoining north Odisha towards north Madhya Pradesh during next 24 hours and weaken gradually.

◆ The **Well Marked Low Pressure Area** over southeast Pakistan & neighbourhood now lies as a **Low Pressure Area** over the same region and the associated cyclonic circulation extends upto 5.8 km above mean sea level.

◆ The western end of the **monsoon trough** at mean sea level runs along the foothills of Himalayas and its eastern end now passes through Gorakhpur, Gaya, centre of **Deep Depression** over south Jharkhand, Digha and thence southeastwards to north Bay of Bengal.

Weather Forecast for next 5 days * upto 0830 hours IST of 25th August 2022

◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.

◆ No significant change in maximum temperatures very likely over the country during next 5 days.

Weather Outlook for subsequent 2 days During 25th August - 27th August, 2022

◆ Fairly widespread light/moderate rainfall activity likely over Central (Except West Madhya Pradesh) & East India (except Bihar) and along the west coast.

◆ Scattered to fairly widespread light/moderate rainfall activity likely over Northwest, West & South Peninsular India.

Weather Warning during next 5 days *

20 Aug (Day 1): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over East Madhya Pradesh and Chhattisgarh; **heavy to very heavy rainfall** at isolated places over northwest Odisha, Vidarbha and Jharkhand and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, north Haryana & Chandigarh, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Telangana.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** at isolated places very likely over Jharkhand and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada and Tamilnadu, Puducherry & Karaikal.

♦ **Squally wind** speed reaching 40-50 kmph gusting to 65 kmph over Northwest Bay of Bengal along & off West Bengal and Odisha coasts. **Strong Winds** speed reaching 30-40 kmph gusting to 50 kmph likely to prevail over interior districts of north Odisha, Gangetic West Bengal and adjoining areas of south Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Bay of Bengal off Sri Lanka coast. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, Gulf of Mannar. **Squally winds** of 40-50 kmph gusting to 60 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central and adjoining northeast Arabian Sea, along and off Somalia coast, northwest Bay of Bengal, adjoining west-central Bay of Bengal, along and off West Bengal, Odisha, north Andhra Pradesh coasts. Fishermen are advised not to venture into these seas.

21 Aug (Day 2): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over West Madhya Pradesh and adjoining area of East Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over East Rajasthan, remaining parts of East Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Vidarbha, Chhattisgarh and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southeast and adjoining southwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, off Sri Lanka coast, Gulf of Mannar. **Squally winds** of 40-50 kmph gusting to 60 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central and adjoining northeast Arabian Sea, along and off Somalia coast, along and off Goa, Maharashtra coasts. Fishermen are advised not to venture into these seas.

22 Aug (Day 3): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over East Rajasthan and adjoining area of southwest Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over remaining parts of West Madhya Pradesh and Gujarat Region and **heavy rainfall** at isolated places over West Rajasthan, Andaman & Nicobar Islands, Madhya Maharashtra, Konkan & Goa, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southeast and adjoining southwest Bay of Bengal, along and off Sri Lanka coast, Comorin area. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, off Sri Lanka coast, Gulf of Mannar. **Squally winds** of 40-50 kmph gusting to 60 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central and adjoining northeast Arabian Sea, along and off Somalia coast, along and off Goa, Maharashtra coasts. Fishermen are advised not to venture into these seas.

23 Aug (Day 4): ♦ Heavy to very heavy rainfall at isolated places over West Rajasthan and adjoining areas of East Rajasthan and **heavy rainfall** at isolated places over remaining parts of East Rajasthan, Odisha, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Bay of Bengal, off Sri Lanka coast, Comorin area. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea. **Squally winds** of 40-50 kmph gusting to 60 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central and adjoining northeast Arabian Sea, along and off Somalia coast, along and off Goa, Maharashtra coasts. Fishermen are advised not to venture into these seas.

24 Aug (Day 5): ♦ Heavy rainfall at isolated places over Odisha, Jharkhand, Chhattisgarh, Assam & Meghalaya, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Bay of Bengal, off Sri Lanka coast, Comorin area. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea. **Squally winds** of 40-50 kmph gusting to 60 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central and adjoining northeast Arabian Sea, along and off Somalia coast, along and off Goa, Maharashtra coasts. Fishermen are advised not to venture into these seas.

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)
20-August-2022

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

% 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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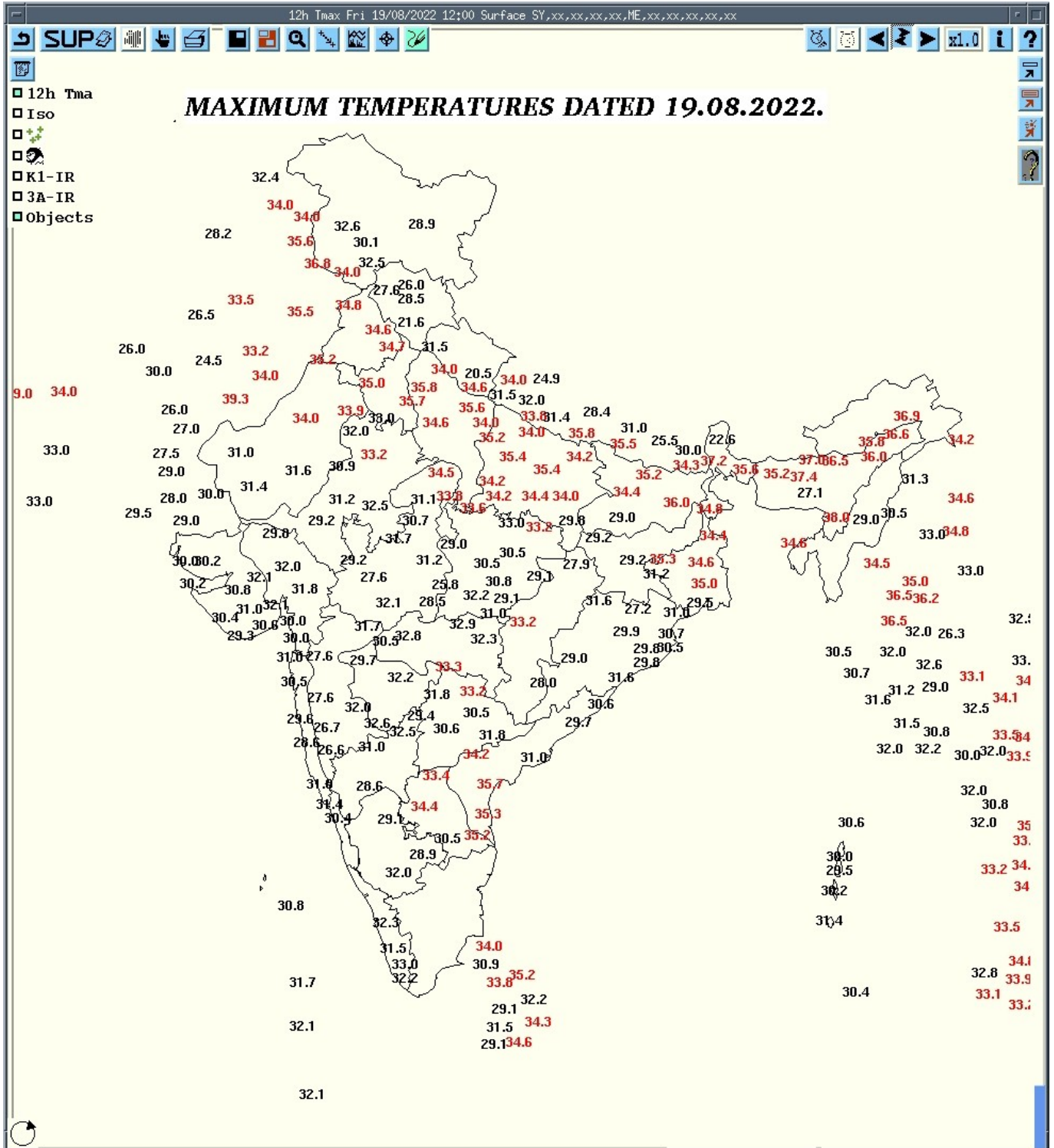
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Fig. 2: Maximum Temperature during past 24 hours



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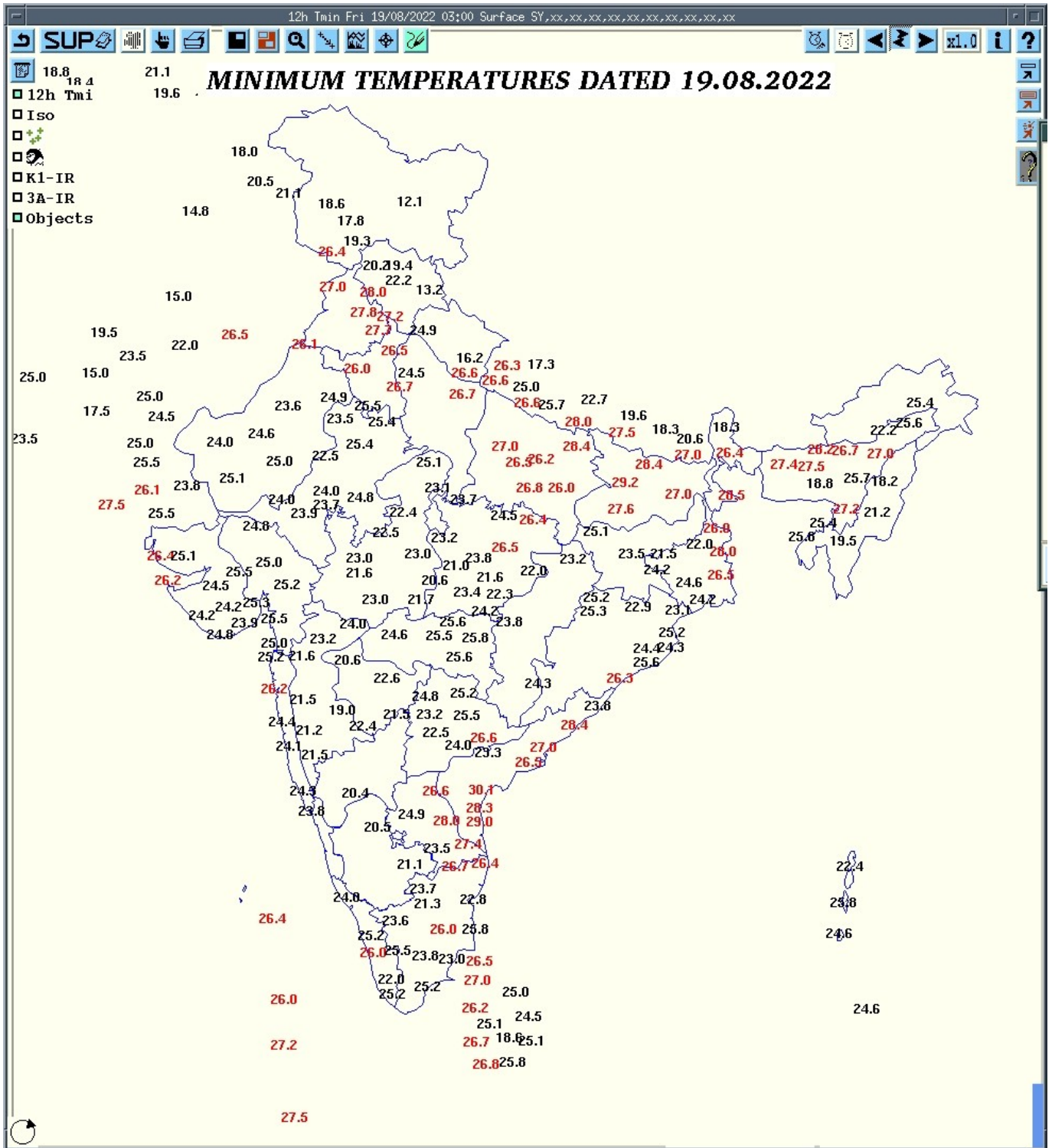
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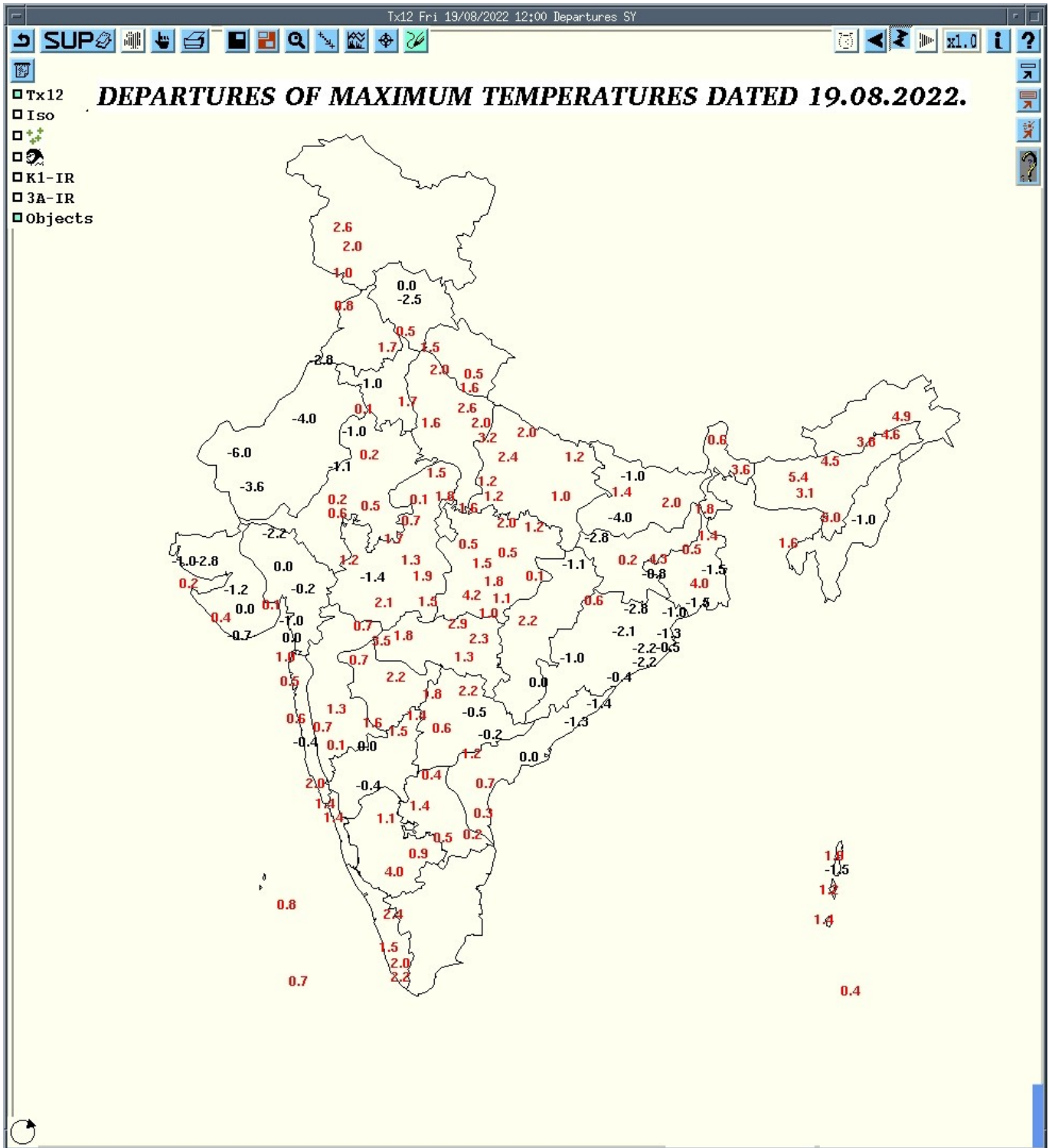
Fig. 3: Minimum Temperature during past 24 hours



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Fig. 4 : Departure from Normal of Maximum Temperatures



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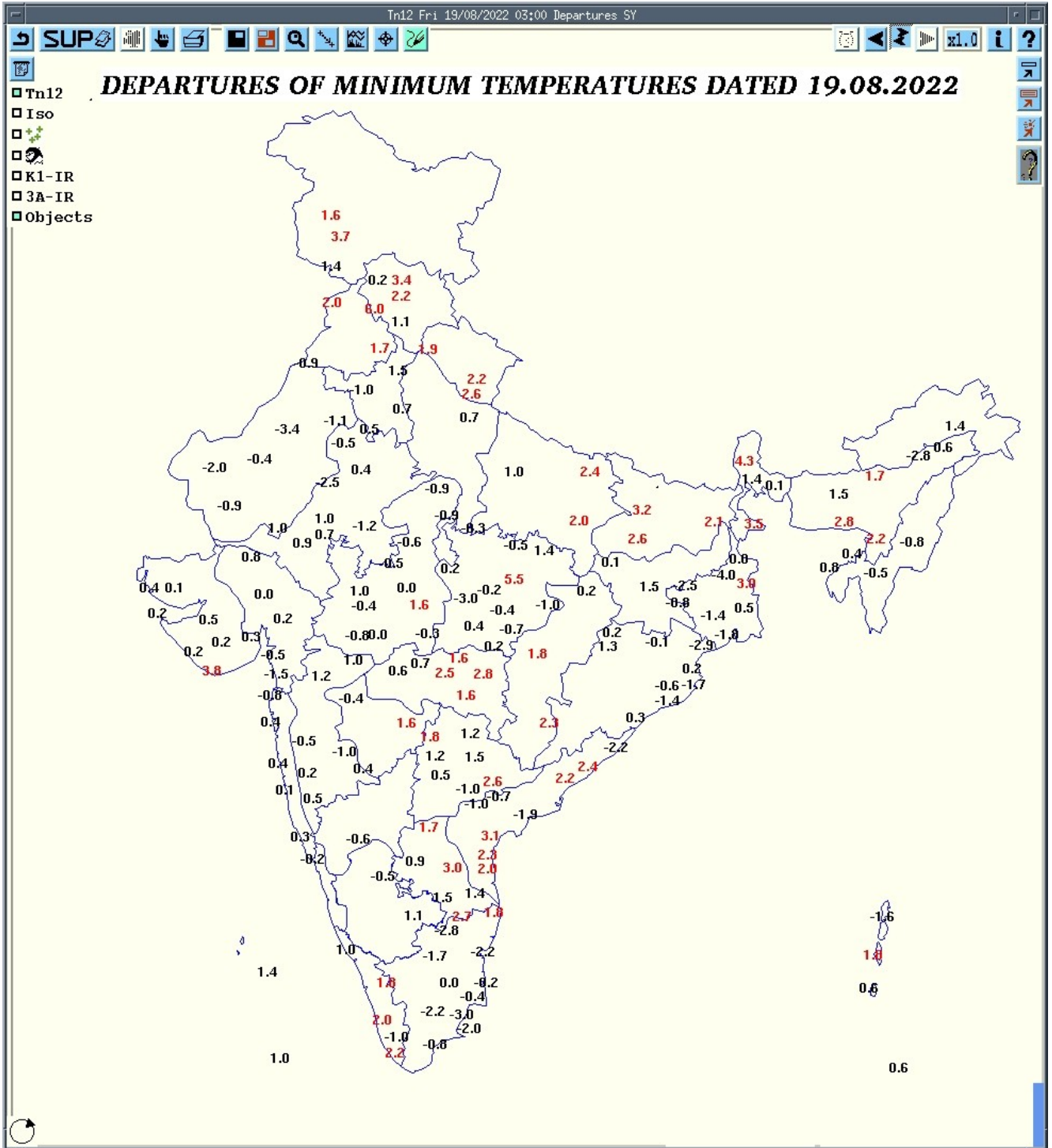
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Fig. 5 : Departure from Normal of Minimum Temperatures



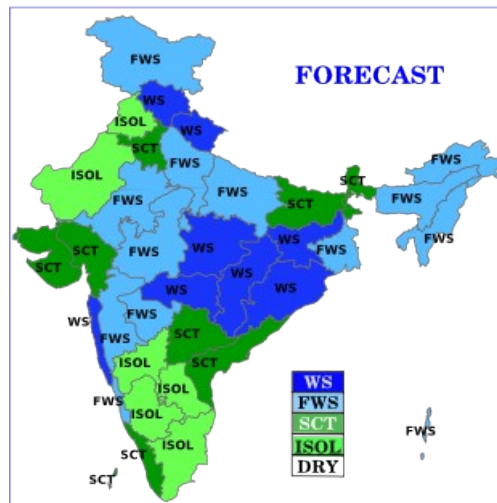
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Saturday 20 August 2022



20 Aug (Day 1): ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls** at isolated places very likely over East Madhya Pradesh and Chhattisgarh; **heavy to very heavy rainfall** at isolated places over northwest Odisha, Vidarbha and Jharkhand and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, north Haryana & Chandigarh, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Telangana.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** at isolated places very likely over Jharkhand and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada and Tamilnadu, Puducherry & Karaikal.

♦ **Squally wind** speed reaching 40-50 kmph gusting to 65 kmph over Northwest Bay of Bengal along & off West Bengal and Odisha coasts. **Strong Winds** speed reaching 30-40 kmph gusting to 50 kmph likely to prevail over interior districts of north Odisha, Gangetic West Bengal and adjoining areas of south Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Bay of Bengal off Sri Lanka coast. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, Gulf of Mannar. **Squally winds** of 40-50 kmph gusting to 60 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central and adjoining northeast Arabian Sea, along and off Somalia coast, northwest Bay of Bengal, adjoining west-central Bay of Bengal, along and off West Bengal, Odisha, north Andhra Pradesh coasts. Fishermen are advised not to venture into these seas.

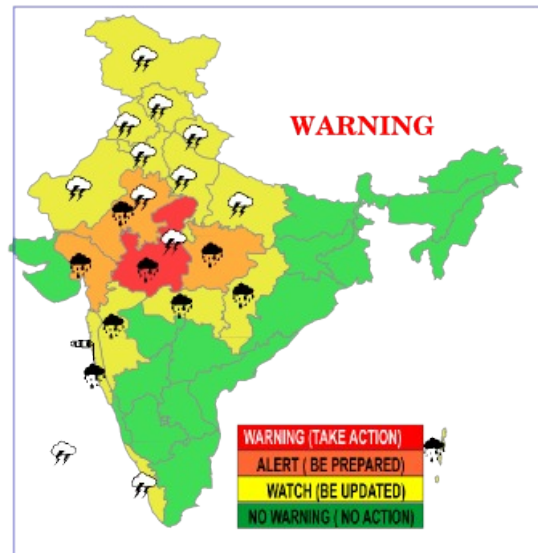
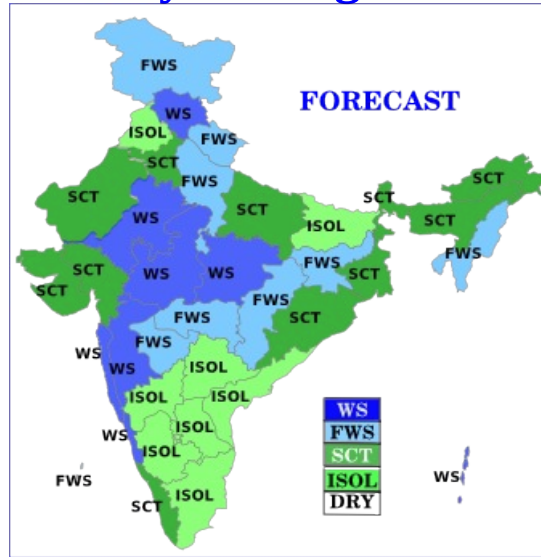
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Sunday 21 August 2022



21 Aug (Day 2): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over West Madhya Pradesh and adjoining area of East Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over East Rajasthan, remaining parts of East Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Vidarbha, Chhattisgarh and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southeast and adjoining southwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, off Sri Lanka coast, Gulf of Mannar. **Squally winds** of 40-50 kmph gusting to 60 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central and adjoining northeast Arabian Sea, along and off Somalia coast, along and off Goa, Maharashtra coasts. Fishermen are advised not to venture into these seas.

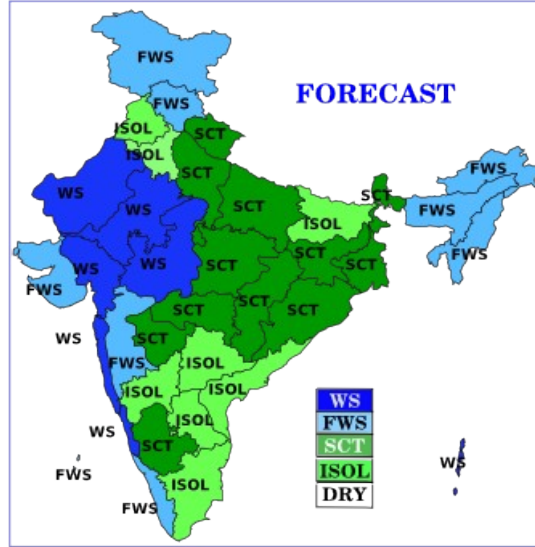
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Monday 22 August 2022



22 Aug (Day 3): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over East Rajasthan and adjoining area of southwest Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over remaining parts of West Madhya Pradesh and Gujarat Region and **heavy rainfall** at isolated places over West Rajasthan, Andaman & Nicobar Islands, Madhya Maharashtra, Konkan & Goa, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Kerala & Mahe and Lakshadweep.

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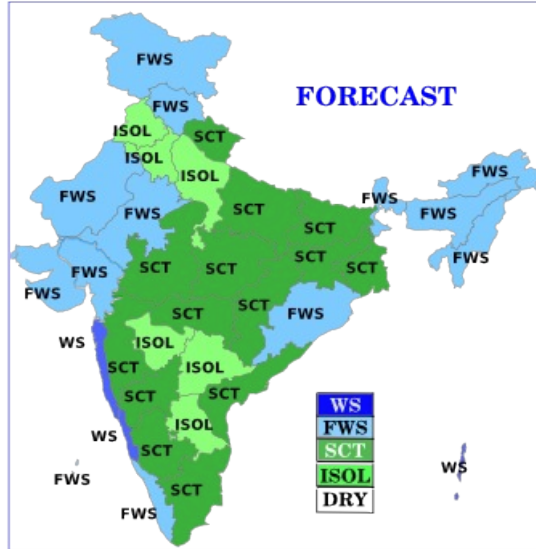
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(Created by the MetInfo team 1977)

Tuesday 23 August 2022



23 Aug (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places over West Rajasthan and adjoining areas of East Rajasthan and **heavy rainfall** at isolated places over remaining parts of East Rajasthan, Odisha, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Bay of Bengal, off Sri Lanka coast, Comorin area. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea. **Squally winds** of 40-50 kmph gusting to 60 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central and adjoining northeast Arabian Sea, along and off Somalia coast, along and off Goa, Maharashtra coasts. Fishermen are advised not to venture into these seas.

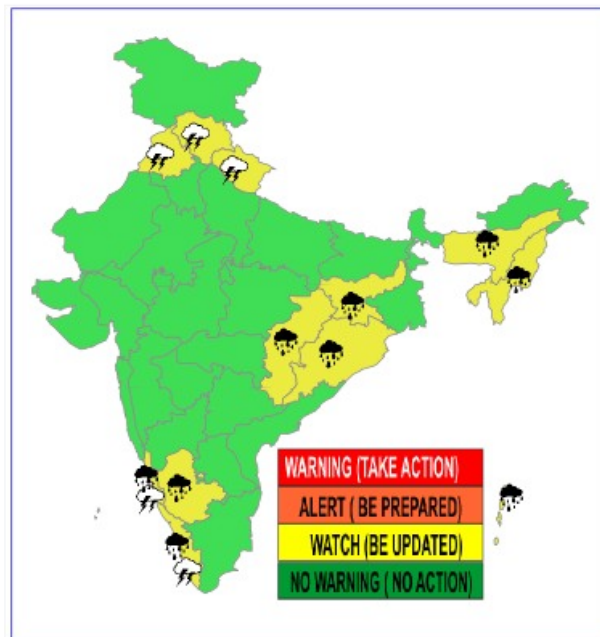
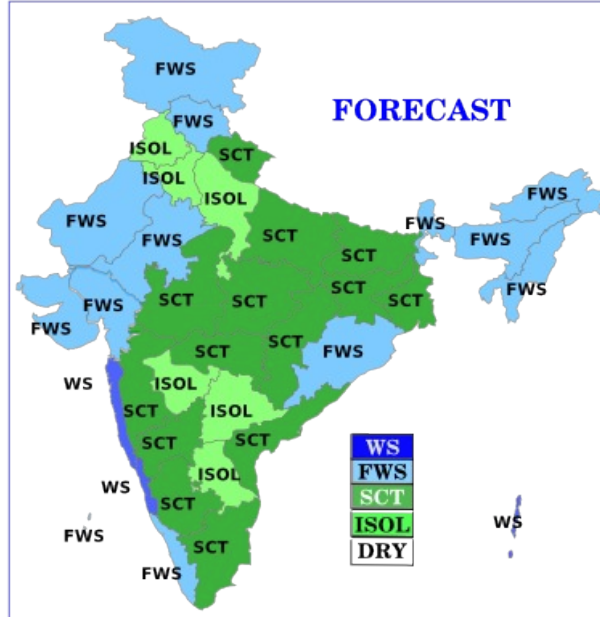
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(Circle as the National flag)

Wednesday 24 August 2022



24 Aug (Day 5): ♦ **Heavy rainfall** at isolated places over Odisha, Jharkhand, Chhattisgarh, Assam & Meghalaya, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Bay of Bengal, off Sri Lanka coast, Comorin area. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea. **Squally winds** of 40-50 kmph gusting to 60 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central and adjoining northeast Arabian Sea, along and off Somalia coast, along and off Goa, Maharashtra coasts. Fishermen are advised not to venture into these seas.

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(Copies to the Media upto 1070)

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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