



Friday 19 August 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

◆ The **Well Marked Low Pressure Area** over Northeast Bay of Bengal and adjoining southeast Bangladesh coast moved northwestwards concentrated into a **Depression** and lay centered 0530 hours IST of today, the 19th August 2022, over northwest & adjoining northeast Bay of Bengal near latitude 20.5°N and longitude 89.7°E, about 310 km east-southeast of Balasore (Odisha), 250 km east-southeast of Digha (West Bengal) and 210 km east-southeast of Sagar Islands. It is very likely to move west-northwestwards and intensify into a Deep Depression during next 06 hours. Continuing to move in the same direction. It is likely to cross West Bengal and Odisha coast between Balasore & Sagar Islands around evening of today the 19th August, 2022. After landfall it would continue to move west-northwestwards across north Odisha, West Bengal and Jharkhand towards north Chhattisgarh and weaken gradually.

◆ The other **Well Marked Low Pressure Area** lies over Southeast Pakistan & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level. It is very likely to continue to move west-northwestwards and weaken gradually during next 24 hours.

◆ The western end of the **monsoon trough** is north of the normal position and remain so during next 2-3 days while eastern end likely to be along normal or south of the normal position during the same period.

◆ Under the influence of the above systems:

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy to very heavy falls and thunderstorm/lightning** very likely over Odisha, Jharkhand and West Bengal & Sikkim during 19th-20th; Vidarbha on 20th & 21st; Chhattisgarh & East Madhya Pradesh during 19th-21st and over West Madhya Pradesh during 20th-22nd August, 2022.

i) Isolated **extremely heavy rainfall** also likely over north Odisha on 19th; north Chhattisgarh & East Madhya Pradesh on 20th and over West Madhya Pradesh on 21st August, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls and TS/lightning** very likely over West Rajasthan & Gujarat State on 22nd; East Rajasthan and Konkan & Goa during 20th-22nd and over ghat areas of Madhya Maharashtra on 21st & 22nd August, 2022. Isolated **very heavy rainfall** also likely over East Rajasthan on 21st & 22nd August, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Jammu & Kashmir and Punjab on 20th; Uttarakhand on 19th & 20th; Himachal Pradesh and West Uttar Pradesh during 19th-21st; south Haryana on 21st and over East Uttar Pradesh on 19th & 20th August, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Assam & Meghalaya on 19th & 20th and over Nagaland, Manipur, Mizoram & Tripura during 19th-20th August, 2022.

Main Weather Observations

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

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◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Andaman & Nicobar Islands; at many places over West Rajasthan, Saurashtra & Kutch, Konkan & Goa and Madhya Maharashtra; at a few places over Gujarat Region, Odisha and Chhattisgarh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, East Rajasthan, Madhya Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Manipur, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (1 cm or more):** Himachal Pradesh: Dharamshala-3; Sub-Himalayan West Bengal & Sikkim: Gangtok-2; West Rajasthan: Barmer-2, Phalodi & Jaisalmer-1 each; Konkan & Goa: Matheran-2, Ratnagiri-1; Madhya Maharashtra: Mahabaleshwar; Saurashtra & Kutch: Bhuj, Kandla & Porbandar-1 each; Gujarat Region: Ahmadabad & Daman -1 each; East Madhya Pradesh: Jabalpur-1; Odisha: Sundargarh & Koraput-1 each and Assam & Meghalaya: Shillong-1.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Assam & Meghalaya, West Bengal & Sikkim, Jharkhand, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Manipur, Odisha and Tamilnadu, Puducherry & Karaikal.

◆ **Minimum Temperature Departures (as on 18-08-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Jharkhand, Gangetic West Bengal and Assam & Meghalaya; at a few places over Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Kerala & Mahe and Lakshadweep; at isolated places over Himachal Pradesh, Punjab, Uttar Pradesh, East Madhya Pradesh, Bihar, Vidarbha and Coastal Andhra Pradesh & Yanam. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over West Rajasthan and Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at isolated places over East Rajasthan and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 20.8°C was reported at Khargone & Betul (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 18-08-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Assam & Meghalaya, Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim; ; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Jharkhand Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal and Uttarakhand; at a few places over Bihar and at isolated places over Odisha, Vidarbha and Telangana; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Rayalaseema, Coastal Andhra Pradesh and Kerala & Mahe; at a few places over Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal and at Isolated places over J&K, West Uttar Pradesh and Marathwada. They were markedly below normal (-5.1°C to Less) at a few places over West Rajasthan; below normal (-1.6°C to -3.0°C) at isolated places over East Rajasthan and Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.1°C was reported at Cooch Behar (Sub-Himalayan West Bengal).

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### Meteorological Analysis (Based on 0530 hours IST)

◆ The **Well Marked Low Pressure Area** over Northeast Bay of Bengal and adjoining southeast Bangladesh coast moved northwestwards concentrated into a Depression and lay centered 0530 hours IST of today, the 19th August 2022, over northwest & adjoining northeast Bay of Bengal near latitude 20.5°N and longitude 89.7°E, about 310 km east-southeast of Balasore (Odisha), 250 km east-southeast of Digha (West Bengal) and 210 km east-southeast of Sagar Islands. It is very likely to move west-northwestwards and intensify into a Deep Depression during next 06 hours. Continuing to move in the same direction. It is likely to cross West Bengal and Odisha coast between Balasore & Sagar Islands around evening of today the 19th August, 2022. After landfall it would continue to move west-northwestwards across north Odisha, West Bengal and Jharkhand towards north Chhattisgarh and weaken gradually.

◆ The **Well Marked Low Pressure Area** over Southeast Pakistan and adjoining southwest Rajasthan now lies over Southeast Pakistan & neighbourhood and the associated cyclonic circulation extends upto 7.6 km above mean sea level. It is very likely to continue to move west-northwestwards and weaken gradually during next 24 hours.

◆ The **monsoon trough** at mean sea level now passes through Jaisalmer, Hissar, Bareilly, Gorakhpur, Patna, Bankura, Digha and thence east-southeastwards to the centre of Depression over northwest and adjoining northeast Bay of Bengal.

◆ The north-south trough from Rayalaseema to Comorin area across interior Tamil Nadu extending upto 0.9 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 24th 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 24th August - 26th August, 2022

- ◆ Fairly widespread light/moderate rainfall activity likely over Central & East India (except Bihar).
- ◆ Scattered to fairly widespread light/moderate rainfall activity likely over Northwest, West & South Peninsular India.

## Weather Warning during next 5 days \*

**19 Aug (Day 1):** ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Odisha; **heavy to very heavy rainfall** at isolated places over Gangetic West Bengal and Jharkhand and **heavy rainfall** at isolated places over Uttarakhand, Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph gusting to 60kmph)** at isolated places very likely over Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph gusting to 50kmph)** at isolated places over Jharkhand and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Bihar, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Marathwada, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 55-65 kmph gusting to 75 kmph) very likely over north Bay of Bengal, along and off West Bengal and Odisha coasts. **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southeast Bay of Bengal and adjoining southwest Bay of Bengal. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea and adjoining west central Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, along and off Somalia coast, adjoining east-central Arabian Sea, northern parts of northeast Bay of Bengal, Gulf of Mannar. Fishermen are advised not to venture into these seas.

**20 Aug (Day 2):** ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over East Madhya Pradesh and Chhattisgarh; **heavy to very heavy rainfall** at isolated places over Odisha, Gangetic West Bengal, Jharkhand and Vidarbha and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Konkan & Goa, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **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, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Bihar, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Marathwada.

♦ **Squally weather** (wind speed 50-60 kmph gusting to 65 kmph) very likely over northwest Bay of Bengal, along and off West Bengal and Odisha coasts. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea and adjoining west central Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

**21 Aug (Day 3):** ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over West Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over East Rajasthan and East Madhya Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, south Haryana, West Uttar Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa and Marathwada.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Haryana, Uttar Pradesh, Rajasthan, Vidarbha and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) likely over along and off Goa and Maharashtra coasts, southwest and adjoining southeast Bay of Bengal, Comorin area and Gulf of Mannar. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea, adjoining northeast Arabian Sea, along and off north Gujarat coast, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

**22 Aug (Day 4):** ♦ **Heavy to very heavy rainfall** at isolated places likely over East Rajasthan and **heavy rainfall** at isolated places over West Rajasthan, West Madhya Pradesh, Gujarat state, Konkan & Goa and Marathwada.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Haryana, Uttar Pradesh, Rajasthan and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) likely over along and off Goa and Maharashtra coasts, southwest Bay of Bengal, along and off Sri Lanka coast, adjoining southeast Bay of Bengal, Comorin area and Gulf of Mannar. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast, central parts of north Bay of Bengal, adjoining west central Bay of Bengal. Fishermen are advised not to venture into these seas.

**23 Aug (Day 5):** ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka, Rajasthan and **heavy rainfall** at isolated places over Assam & Meghalaya, Himachal Pradesh, Uttarakhand, Bihar, Jharkhand and Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Haryana, Uttar Pradesh, Rajasthan and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) likely over along and off Goa and Maharashtra coasts, southwest Bay of Bengal, along and off Sri Lanka coast, adjoining southeast Bay of Bengal, Comorin area and Gulf of Mannar. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast, central parts of north Bay of Bengal, adjoining west central Bay of Bengal. 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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(Continued on the Next page 4/7)



**Table-1**  
**5 Day Rainfall Forecast (MORNING)**  
**19-August-2022**

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

**% 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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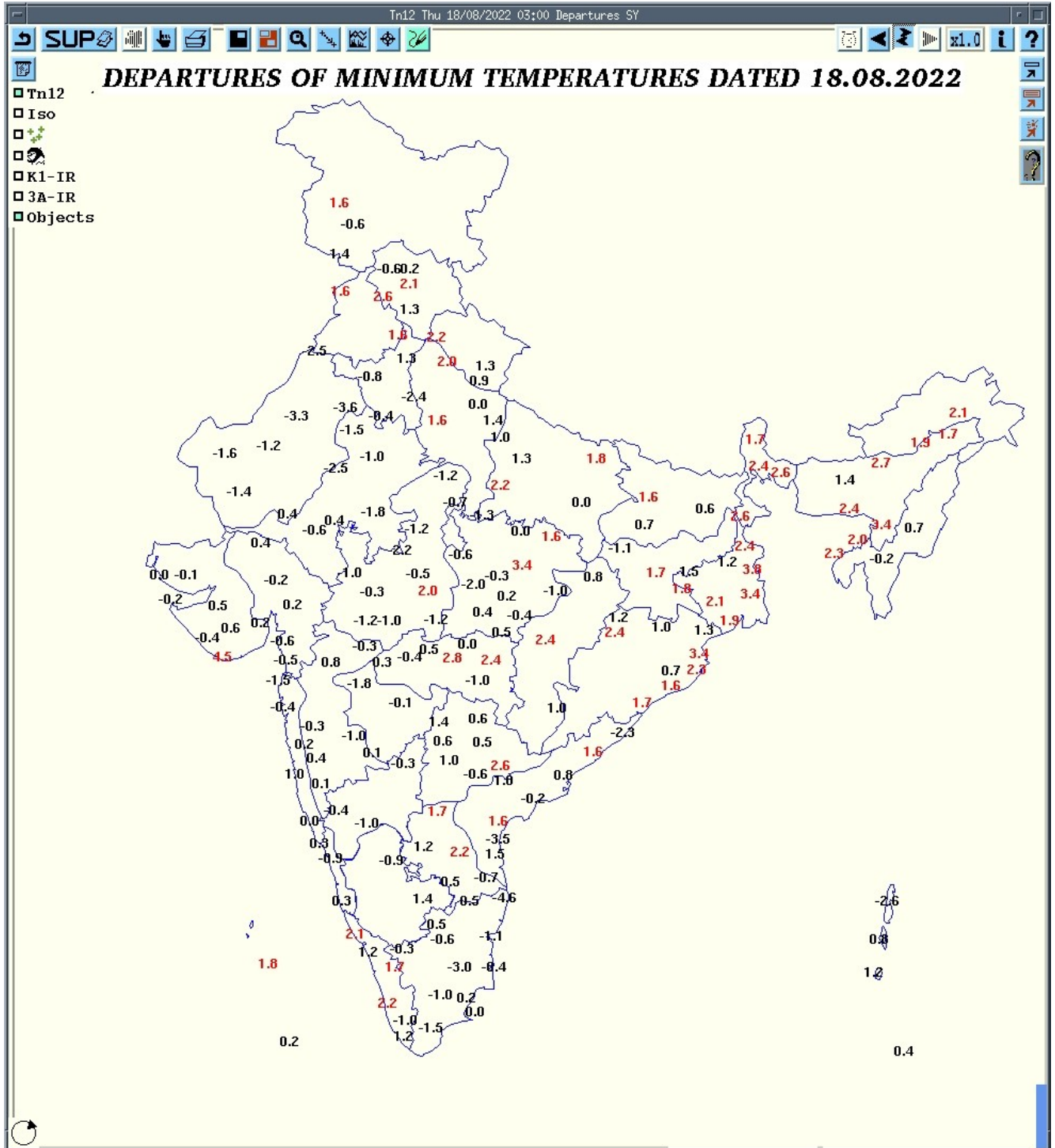






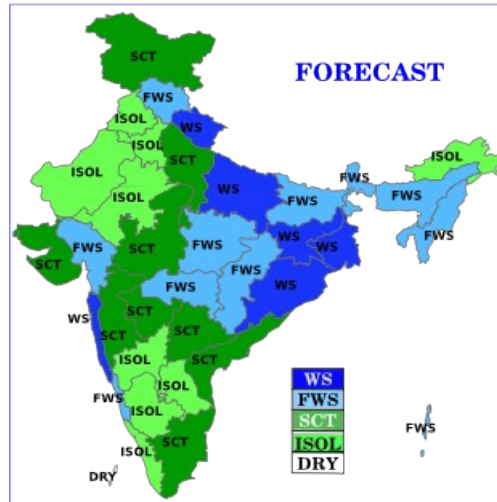


Fig. 5 : Departure from Normal of Minimum Temperatures



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## Friday 19 August 2022



19 Aug (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Odisha; **heavy to very heavy rainfall** at isolated places over Gangetic West Bengal and Jharkhand and **heavy rainfall** at isolated places over Uttarakhand, Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph gusting to 60kmph)** at isolated places very likely over Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph gusting to 50kmph)** at isolated places over Jharkhand and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Bihar, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Marathwada, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 55-65 kmph gusting to 75 kmph) very likely over north Bay of Bengal, along and off West Bengal and Odisha coasts. **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southeast Bay of Bengal and adjoining southwest Bay of Bengal. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea and adjoining west central Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, along and off Somalia coast, adjoining east-central Arabian Sea, northern parts of northeast Bay of Bengal, Gulf of Mannar. Fishermen are advised not to venture into these seas.

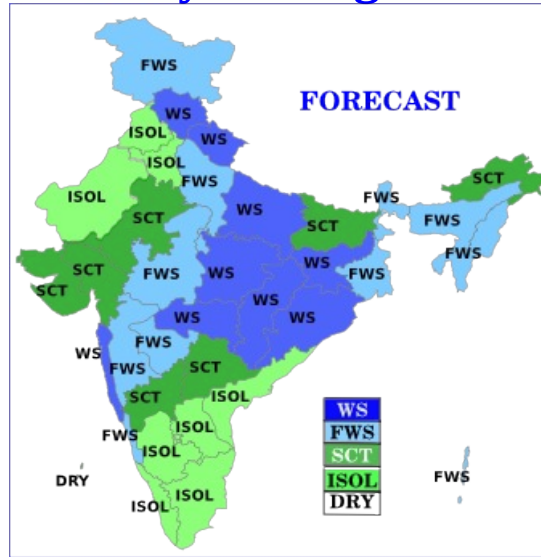
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## Saturday 20 August 2022



**20 Aug (Day 2): ♦ Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over East Madhya Pradesh and Chhattisgarh; **heavy to very heavy rainfall** at isolated places over Odisha, Gangetic West Bengal, Jharkhand and Vidarbha and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Konkan & Goa, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **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, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Bihar, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Marathwada.

♦ **Squally weather** (wind speed 50-60 kmph gusting to 65 kmph) very likely over northwest Bay of Bengal, along and off West Bengal and Odisha coasts. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea and adjoining west central Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

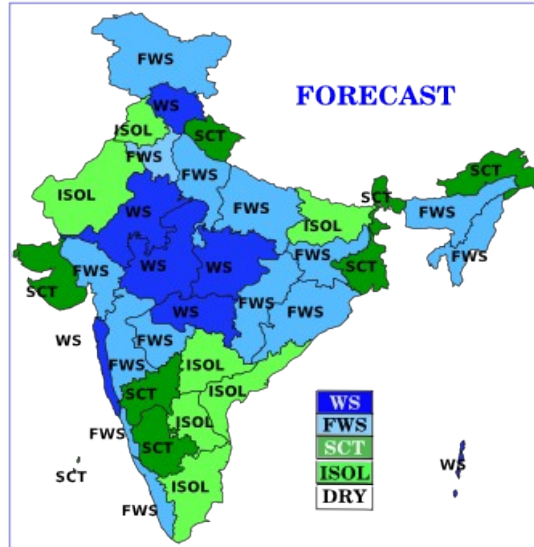
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## Sunday 21 August 2022



21 Aug (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over West Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over East Rajasthan and East Madhya Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, south Haryana, West Uttar Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa and Marathwada.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Haryana, Uttar Pradesh, Rajasthan, Vidarbha and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) likely over along and off Goa and Maharashtra coasts, southwest and adjoining southeast Bay of Bengal, Comorin area and Gulf of Mannar. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea, adjoining northeast Arabian Sea, along and off north Gujarat coast, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

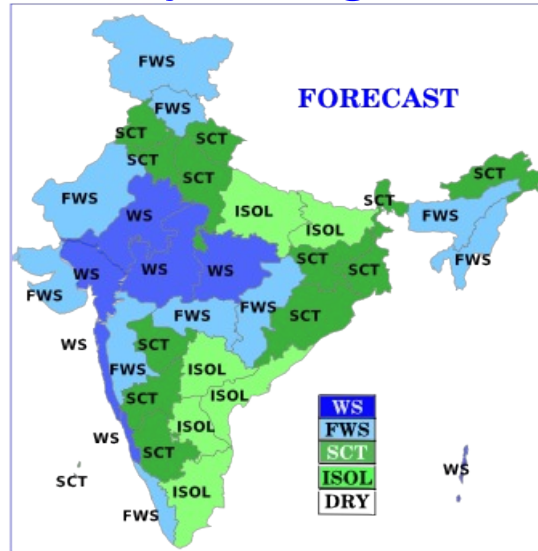
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## Monday 22 August 2022



22 Aug (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over East Rajasthan and **heavy rainfall** at isolated places over West Rajasthan, West Madhya Pradesh, Gujarat state, Konkan & Goa and Marathwada.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Haryana, Uttar Pradesh, Rajasthan and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) likely over along and off Goa and Maharashtra coasts, southwest Bay of Bengal, along and off Sri Lanka coast, adjoining southeast Bay of Bengal, Comorin area and Gulf of Mannar. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast, central parts of north Bay of Bengal, adjoining west central Bay of Bengal. Fishermen are advised not to venture into these seas.

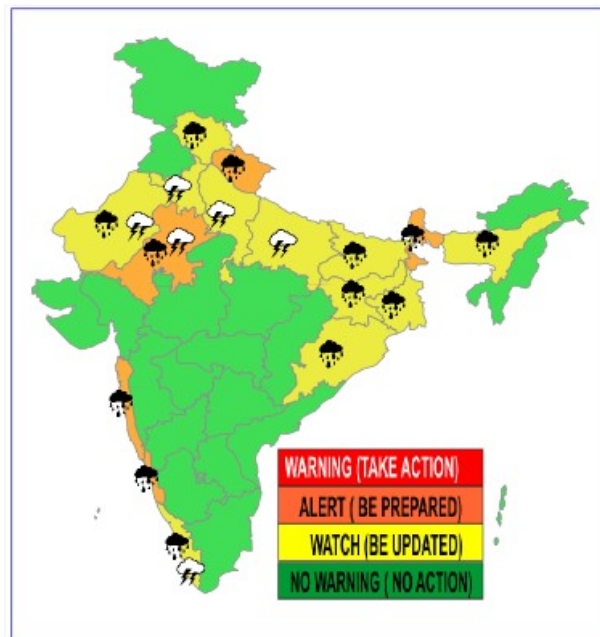
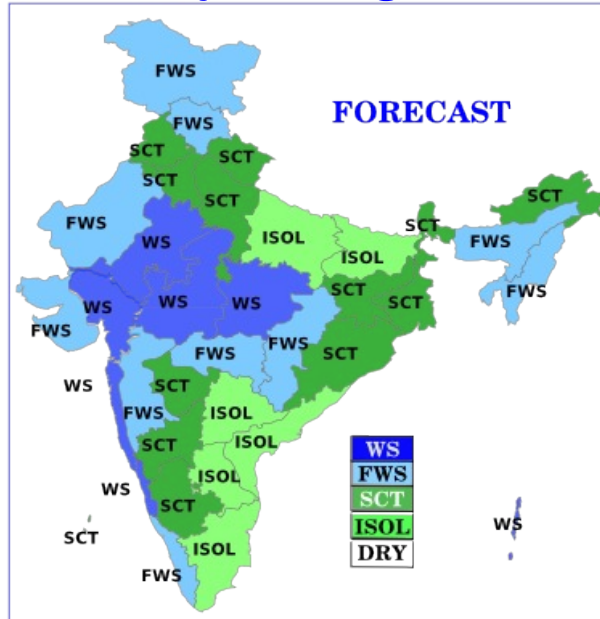
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## Tuesday 23 August 2022



23 Aug (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka, Rajasthan and **heavy rainfall** at isolated places over Assam & Meghalaya, Himachal Pradesh, Uttarakhand, Bihar, Jharkhand and Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Haryana, Uttar Pradesh, Rajasthan and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) likely over along and off Goa and Maharashtra coasts, southwest Bay of Bengal, along and off Sri Lanka coast, adjoining southeast Bay of Bengal, Comorin area and Gulf of Mannar. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast, central parts of north Bay of Bengal, adjoining west central Bay of Bengal. Fishermen are advised not to venture into these seas.

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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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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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