



Wednesday 22 June 2022

MORNING

Time of Issue: 0745 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advance of Southwest Monsoon:

◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porbandar, Baroda, Shivpuri, Rewa, Churk, 27.0°N/84°E.

Rainfall/thunderstorm Forecast & Warnings:

◆ Under the influence of off-shore trough & strong westerly winds along the west coast in lower tropospheric levels:

o Fairly widespread/ widespread rainfall with thunderstorm/lightning very likely over Karnataka, Konkan & Goa, Kerala & Mahe and Lakshadweep and scattered to fairly widespread rainfall likely over Madhya Maharashtra, Marathwada, Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal during next 5 days.

o Isolated **heavy rainfall** very likely over Konkan & Goa, Coastal & South Interior Karnataka and Gujarat Region during next 5 days; ghat areas of Madhya Maharashtra during 22nd-25th; Kerala on 24th & 25th; North Interior Karnataka during 23rd-25th; Saurashtra on 25th, Coastal Andhra Pradesh & Telangana on 22nd June, 2022. Isolated **Very heavy rainfall** also likely over Konkan & Goa during next 5 days; over coastal Karnataka during 22nd-24th June.

◆ **Under the influence of Western Disturbance at middle tropospheric levels and strong southwesterly winds from Arabian Sea to northwest India at lower tropospheric levels:**

o Fairly widespread to widespread rainfall with thunderstorm/lightning very likely to continue over Western Himalayan region (Jammu, Kashmir, Ladakh, Gilgit- Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand); scattered to fairly widespread rainfall over adjoining plains (Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh & Rajasthan) during next 24 hours and reduce thereafter.

o Scattered to fairly widespread rainfall with thunderstorm/lightning very likely over Madhya Pradesh, Vidarbha and Chhattisgarh during next 5 days. Isolated **heavy rainfall** very likely over East Madhya Pradesh, Vidarbha & Chhattisgarh during 22nd-26th June.

◆ **Under the influence of southerly/southwesterly winds from Bay of Bengal to Northeast & adjoining East India:**

o Widespread rainfall very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated **heavy rainfall** likely to continue over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim during next 5 days and over Arunachal Pradesh & Nagaland, Manipur, Mizoram & Tripura during 23rd-25th June.

o Fairly widespread to widespread rainfall with thunderstorm/lightning very likely to continue over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 5 days. Isolated **heavy rainfall** likely over Bihar & Jharkhand during 23rd-25th and over Odisha during 22nd-25th June, 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 0830-1730 hours IST of yesterday):** at most places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Konkan & Goa, Coastal Karnataka; at many places over Jharkhand, Interior Karnataka; at a few places over Uttarakhand, West Madhya Pradesh, East Uttar Pradesh, Madhya Maharashtra, Vidarbha, Lakshadweep, Andaman & Nicobar Islands and at isolated places over Punjab, Rajasthan, Delhi, West Uttar Pradesh, East Madhya Pradesh, Odisha, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Telangana, Chhattisgarh, Assam & Meghalaya.

◆ Yesterday, **Very Heavy rainfall** occurred at isolated places over Coastal Karnataka and **Heavy rainfall** at isolated places over Jharkhand.

◆ **Chief amount of Rainfall observed (from 0830-1730 hours IST of yesterday) (3 cm or more):** Karwar-15; Jamshedpur-7; Shirali-6; Sholapur-5; Khandwa-4; Mangalore, Amraoli, Bahraich, Ranchi-3 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday - 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Gangetic West Bengal, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal, Vidarbha, Jharkhand, Odisha, Telangana, Coastal Karnataka.

◆ **Maximum Temperature Departures (as on 21-06-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Gangetic West Bengal; at a few places over Gujarat state and Kerala & Mahe. They were **markedly below normal (-5.1°C or less)** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Punjab; at many places over Himachal Pradesh and Rajasthan; at a few places over Uttarakhand, Haryana, Chandigarh & Delhi and Coastal Andhra Pradesh & Yanam; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Coastal Karnataka and at isolated places over East Madhya Pradesh, Vidarbha, Telangana; **below normal (-1.6°C to -3.0°C)** at most places over Konkan & Goa, Andhra Pradesh & Yanam; at many places over West Uttar Pradesh, Tamilnadu, Puducherry & Karaikal, Chhattisgarh; at a few places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Interior Karnataka and Odisha and **near normal** over rest parts of the country. **Yesterday**, the highest maximum temperature of **41.7°C** was reported at **Fatehgarh (Uttar Pradesh)**.

◆ **Minimum Temperature Departures (as on 21-06-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at isolated places over Gujarat state and West Bengal & Sikkim. They were **markedly below normal (-5.1°C or less)** at a few places over Rajasthan and at isolated places over Himachal Pradesh and East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab and Haryana, Chandigarh & Delhi and at isolated places over West Madhya Pradesh, Telangana and Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at most places over Uttarakhand and Konkan & Goa; at a few places over Vidarbha, Odisha and Bihar and at isolated places over Uttar Pradesh, Gangetic West Bengal, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. **Yesterday**, the **lowest minimum** temperature of **18.0°C** was reported at **Sikar (East Rajasthan)** over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porbandar, Baroda, Shivpuri, Rewa, Churk, 27.0°N/84°E.
- ◆ The east-west trough at mean sea level from south Haryana to northeast Bay of Bengal across Uttar Pradesh, Bihar and Gangetic West Bengal persists.
- ◆ The Western Disturbance as a cyclonic circulation over Jammu & neighbourhood between 3.1 km & 5.8 km above mean sea level persists with associated trough in middle & upper tropospheric westerlies with its axis at 7.6 km above mean sea level roughly along Long 66°E to the north of Lat 26°N.
- ◆ The induced cyclonic circulation over northwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over East Uttar Pradesh & neighbourhood at 0.9 km above mean sea level persists.
- ◆ The off-shore trough at mean sea level from south Gujarat coast to north Kerala coast persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 27th June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Rise by 2-3°C very likely over most parts of Northwest India during next 3 days.
- ◆ No significant change in maximum temperatures very likely over rest parts of the country during next 5 days.

Weather Outlook for subsequent 2 days during 27th June-29th June, 2022

- ◆ Widespread light/moderate rainfall likely to continue over West coast, Sub-Himalayan West Bengal & Sikkim, Northeast India.
- ◆ Scattered to fairly widespread rainfall likely over peninsular India & East India and Islands.
- ◆ Increase in rainfall activity likely over Northwest and Central India.
- ◆ Dry weather likely to prevail over rest parts of the country.

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Weather Warning during next 5 days *

22 June (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa and Coastal Karnataka and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Marathwada, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puduchery & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off south Gujarat, Maharashtra, Goa, Karnataka, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over north Gujarat and adjoining north east Arabian Sea, Comorin area, Gulf of Mannar. Fishermen are advised not to venture into these seas.

23 June (Day 2): ♦ Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa and Coastal Karnataka and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Madhya Maharashtra and Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Maharashtra, Goa coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

24 June (Day 3): ♦ Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Coastal Karnataka and Konkan & Goa and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Madhya Maharashtra, Kerala & Mahe and Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over northeast Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off Maharashtra, Goa, Karnataka, Kerala coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

25 June (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Gujarat Region and Konkan & Goa and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Saurashtra & Kutch, Madhya Maharashtra, Kerala & Mahe and Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over northeast Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off Maharashtra, Goa, Karnataka, Kerala coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

26 June (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Gujarat Region and Konkan & Goa and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Vidarbha, Kerala & Mahe and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over northeast Uttar Pradesh, East Madhya Pradesh, Maharashtra, Coastal Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off Maharashtra, Goa, Karnataka, Kerala coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. 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)
22-June-2022

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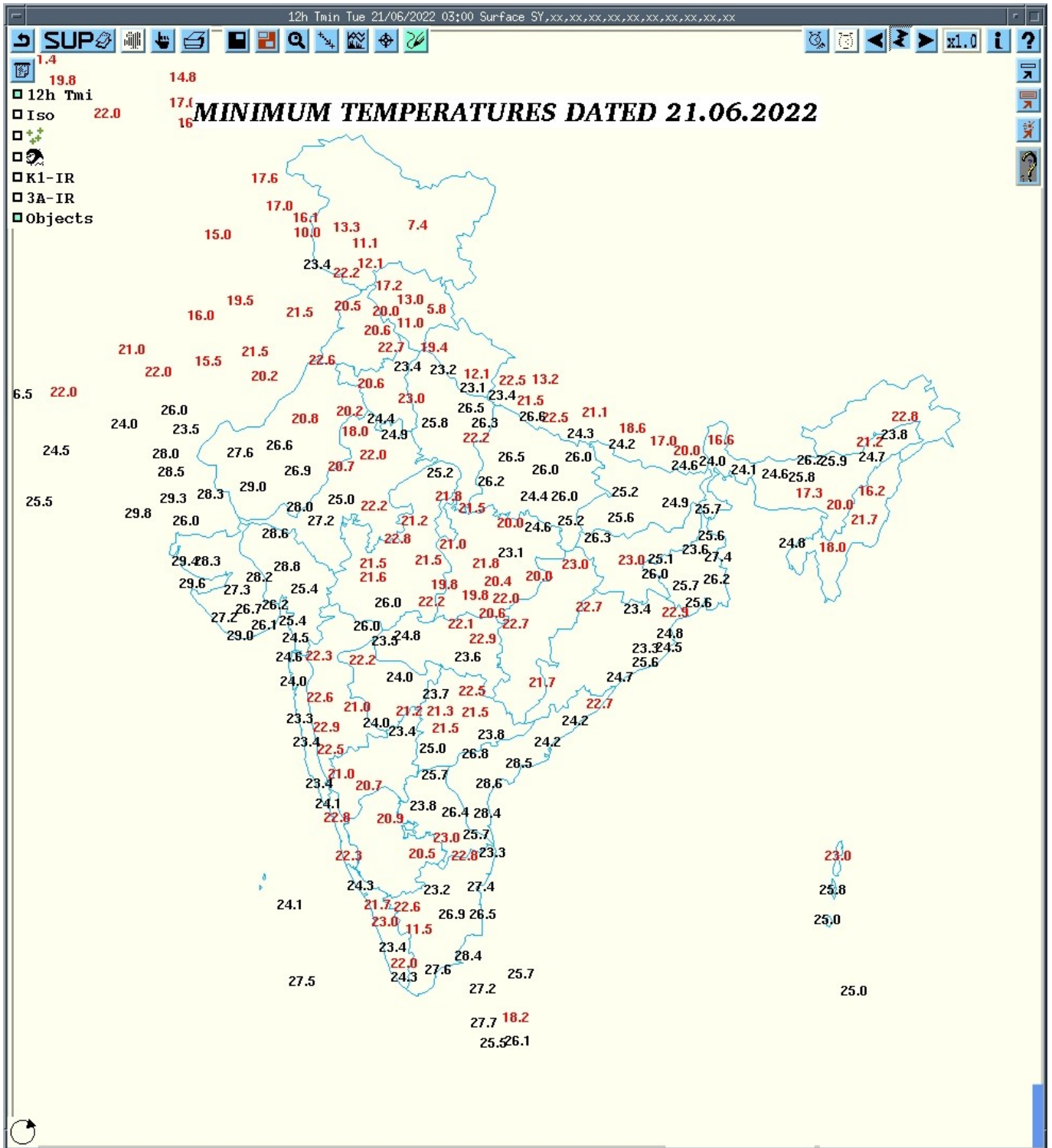
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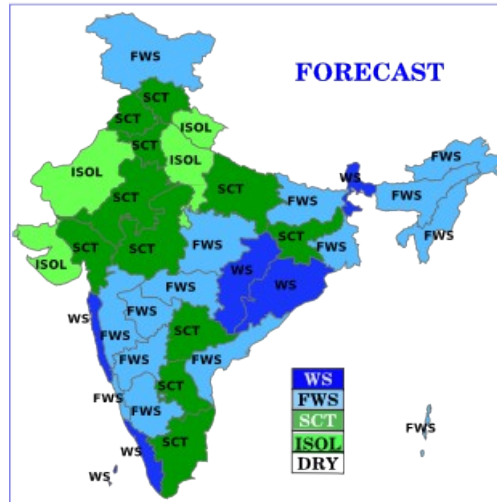


Fig. 3: Minimum Temperature during past 24 hours



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Wednesday 22 June 2022



22 June (Day 1): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Konkan & Goa and Coastal Karnataka and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Marathwada, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off south Gujarat, Maharashtra, Goa, Karnataka, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over north Gujarat and adjoining north east Arabian Sea, Comorin area, Gulf of Mannar. Fishermen are advised not to venture into these seas.

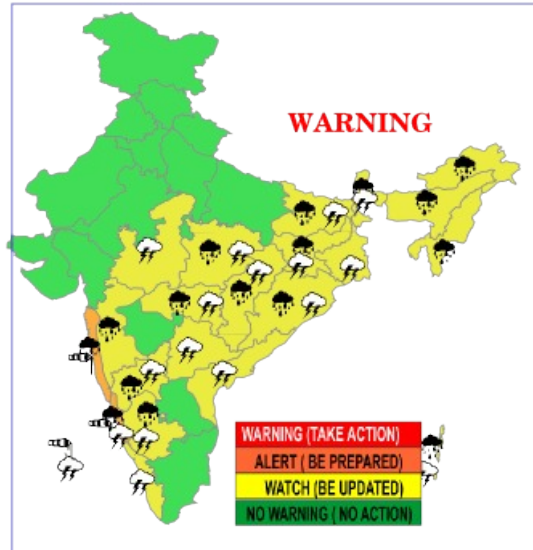
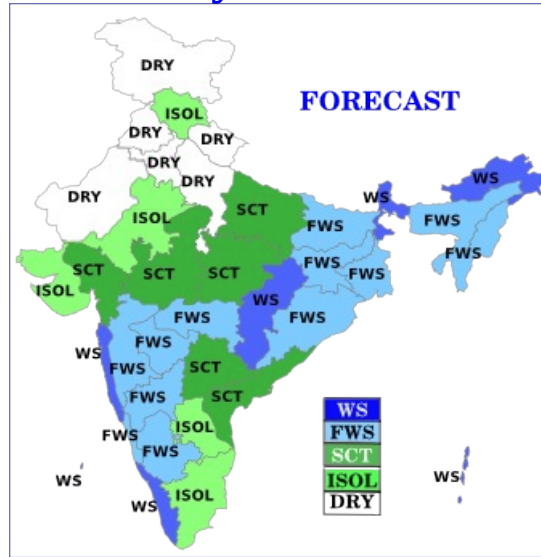
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(Copies to the Meteorologist (GPO))

Thursday 23 June 2022



23 June (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Konkan & Goa and Coastal Karnataka and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Madhya Maharashtra and Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Maharashtra, Goa coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

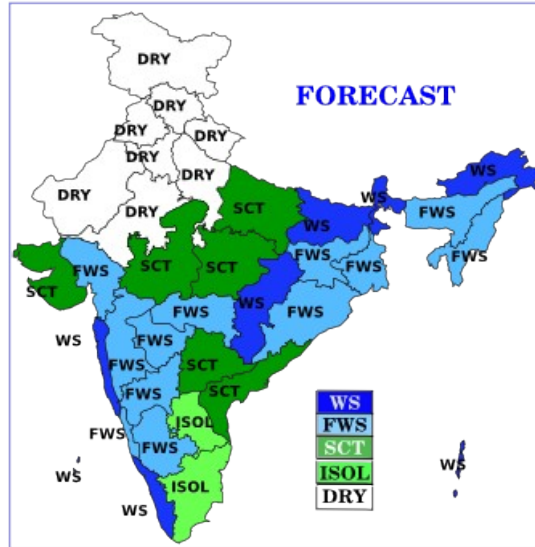
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Friday 24 June 2022



24 June (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Coastal Karnataka and Konkan & Goa and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Madhya Maharashtra, Kerala & Mahe and Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over northeast Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off Maharashtra, Goa, Karnataka, Kerala coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

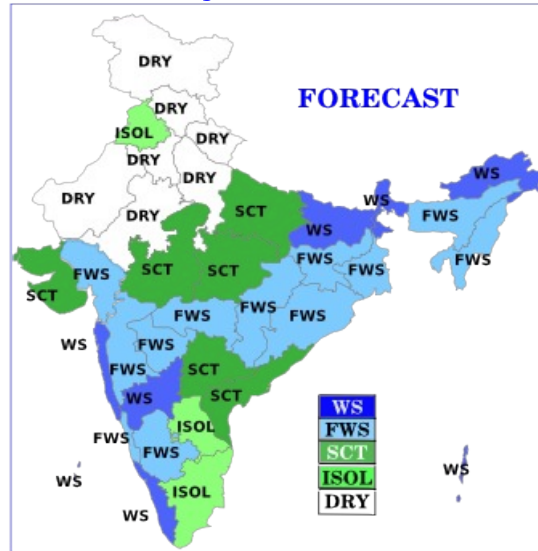
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Saturday 25 June 2022



25 June (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Gujarat Region and Konkan & Goa and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Saurashtra & Kutch, Madhya Maharashtra, Kerala & Mahe and Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over northeast Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off Maharashtra, Goa, Karnataka, Kerala coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

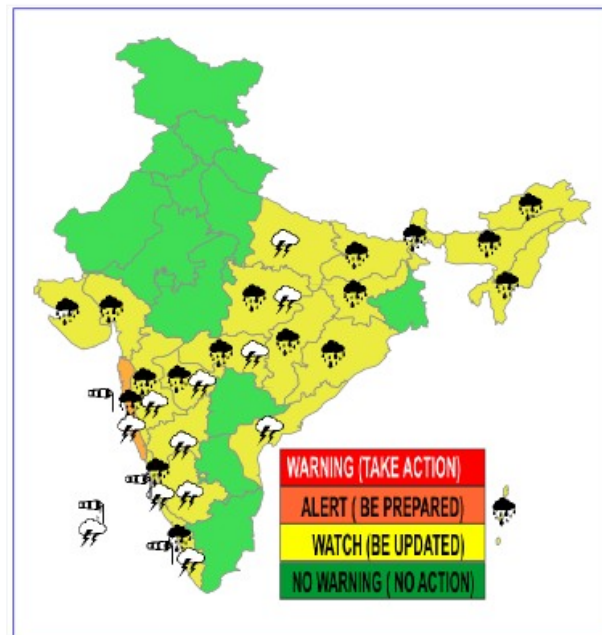
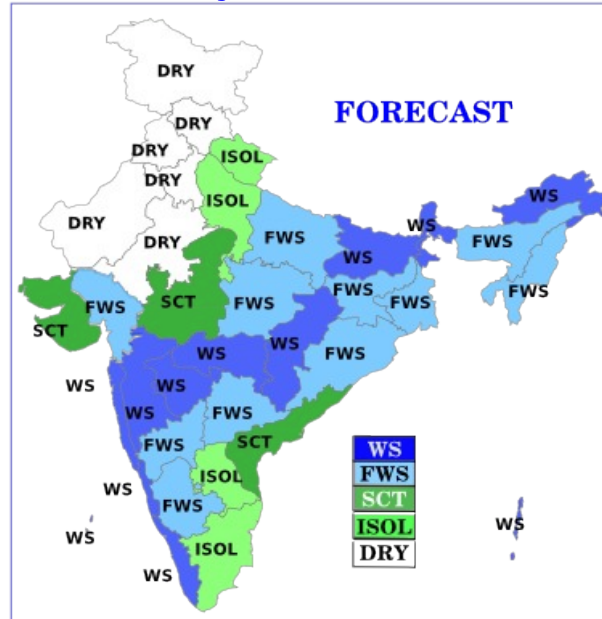
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Sunday 26 June 2022



26 June (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Gujarat Region and Konkan & Goa and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Vidarbha, Kerala & Mahe and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over northeast Uttar Pradesh, East Madhya Pradesh, Maharashtra, Coastal Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off Maharashtra, Goa, Karnataka, Kerala coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. 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

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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(Copies to the Media upto 1070)

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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