

Tuesday 04 October 2022

**MORNING**

Time of Issue: 0745 hours IST

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### **Withdrawal of Southwest Monsoon:**

⇒ The withdrawal line of Southwest Monsoon continues to pass through Long. 79.0°E/ Lat. 31.7° N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3° N.

#### **Weather systems, rainfall/thunderstorm Forecast & Warnings:**

⇒ The Low Pressure Area lies over Westcentral Bay of Bengal off Andhra Pradesh coast & neighborhood. It is very likely to move west-northwestwards towards Andhra Pradesh coast during next 24 hours.

⇒ A trough runs from the cyclonic circulation associated with the above Low Pressure Area to Bangladesh in lower and middle tropospheric levels.

⇒ **Under the influence of above systems;**

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** very likely over Odisha during 04<sup>th</sup>-06<sup>th</sup>; West Bengal & Jharkhand on 04<sup>th</sup>; Bihar on 04<sup>th</sup> & 05<sup>th</sup>; east Madhya Pradesh during 05<sup>th</sup>-07<sup>th</sup>; northwest Madhya Pradesh on 06<sup>th</sup> & 07<sup>th</sup> and Chhattisgarh during 04<sup>th</sup>-06<sup>th</sup> October, 2022. **Isolated very heavy rainfall also very likely over Bihar, sub-Himalayan west Bengal & Sikkim and Odisha on 04<sup>th</sup> October, 2022.**

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Himachal Pradesh & Uttarakhand on 06<sup>th</sup> & 07<sup>th</sup>; over northwest Uttar Pradesh during 05<sup>th</sup>-07<sup>th</sup>; and East Uttar Pradesh during 04<sup>th</sup>-07<sup>th</sup> October, 2022. **Isolated very heavy rainfall also very likely over Uttarakhand from 06<sup>th</sup> to 08<sup>th</sup>; West Uttar Pradesh from 06<sup>th</sup> to 08<sup>th</sup>; East Uttar Pradesh during 05<sup>th</sup>-08<sup>th</sup> October, 2022. Isolated extremely heavy falls also very likely over Uttarakhand and northwest Uttar Pradesh on 07<sup>th</sup> October, 2022.**

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Coastal Andhra Pradesh & Yanam during 04<sup>th</sup>-06<sup>th</sup> and over Telangana on 05<sup>th</sup> & 06<sup>th</sup> October, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh during 05<sup>th</sup>-07<sup>th</sup>; Assam & Meghalaya on 04<sup>th</sup> & 07<sup>th</sup> and over Nagaland, Manipur, Mizoram & Tripura on 04<sup>th</sup> October, 2022.

### Main Weather Observations

◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of Yesterday):** at most places over Gangetic West Bengal; at many places over Bihar, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Lakshadweep; at a few places over Odisha and Kerala & Mahe and at isolated places over Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of Yesterday): (1 cm or more):** Chandbali-4; Kailashahar & Gaya-3 each; Golaghat, Imphal, Malda, Patna & Churk-2 each; Lumding, Bhagalpur, Shanti Niketan, Bankura, Midnapore, Haldia, Ambikapur, Raipur, Paradip, Ratlam & Punalur-1 each.

◆ **Thunderstorm observed (from 1730 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Odisha, Chhattisgarh, Bihar, Gangetic West Bengal, Jharkhand and Coastal Andhra Pradesh & Yanam.

◆ **Minimum Temperature Departures (as on 03-10-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Punjab; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Uttarakhand and East Uttar Pradesh; at many places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, Bihar and Gujarat Region; at a few places over Madhya Pradesh; at isolated places over Saurashtra & Kutch, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. **Yesterday, the lowest minimum temperature of 19.2°C was reported at Mandla (East Madhya Pradesh) over the plains of the country.**

◆ **Maximum Temperature Departures (as on 03-10-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand; at isolated places over Himachal Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and East Uttar Pradesh; at isolated places over Bihar, Arunachal Pradesh, Vidarbha, Madhya Maharashtra, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at most places over Gangetic West Bengal; at many places over Odisha; at a few places over Gujarat State and Chhattisgarh; at isolated places over West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and South Interior Karnataka and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 38.4°C was reported at Ganganagar (West Rajasthan) over the plains of the country.**

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(Copies to the Meteorologist (GPO))



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

- ◆ The withdrawal line of Southwest Monsoon continues to pass through Long. 79.0°E/ Lat. 31.7° N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3° N.
- ◆ The **Low Pressure Area** over Westcentral Bay of Bengal & neighbourhood now lies over Westcentral Bay of Bengal off Andhra Pradesh coast & neighbourhood with the associated cyclonic circulation extending upto 5.8 km above mean sea level tilting southwestwards with height. It is very likely to move west-northwestwards towards Andhra Pradesh coast during next 24 hours.
- ◆ The trough from the cyclonic circulation associated with the Low Pressure Area over Westcentral Bay of Bengal & neighbourhood now runs from the cyclonic circulation associated with the Low Pressure Area over Westcentral Bay of Bengal off Andhra Pradesh coast & neighbourhood to Bangladesh extending upto 5.8 km above mean sea level.
- ◆ The **Western Disturbance** as a cyclonic circulation over north Pakistan & adjoining Afghanistan at 3.1 km above mean sea level now seen as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along 69°E to north of 30°N.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 09th October, 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 09th-11th October, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall with isolated heavy to very falls likely over Uttarakhand on 08th October, 2022.
- ◆ Scattered to fairly widespread light/moderate rainfall likely over Central, East & Northeast India, Islands and along the West coasts.
- ◆ Isolated to scattered light rainfall activity likely over rest parts of the country except remaining parts of northwest India and Gujarat state where dry weather is likely.

## Weather Warning during next 5 days \*

**04 Oct (Day 1): ♦ Heavy to very heavy rainfall** at isolated places very likely over Bihar, Sub-Himalayan West Bengal & Sikkim and Odisha and **heavy rainfall** at isolated places over East Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

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

♦**Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over west central along and off north Andhra Pradesh-south Odisha coasts and adjoining northwest Bay of Bengal; Southwest Bay of Bengal along and off Sri Lanka coast and adjoining southeast Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, some parts of west-central and adjoining northwest Bay of Bengal, Gulf of Mannar, Comorin area adjoining south of southwest Bay of Bengal along and off Sri Lanka coast and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

**05 Oct (Day 2): ♦ Heavy to very heavy rainfall** at isolated places very likely over East Uttar Pradesh and **heavy rainfall** at isolated places over West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Telangana.

♦**Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Andaman & Nicobar Islands, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦**Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, west central along and off north coastal Andhra Pradesh adjoining northwest Bay of Bengal; Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, adjoining south of southwest Bay of Bengal along and off Sri Lanka coast. Fishermen are advised not to venture into these seas.

**06 Oct (Day 3): ♦ Heavy to very heavy rainfall** at isolated places likely over Uttarakhand and Uttar Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, Madhya Pradesh, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Telangana.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe.

♦**Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is likely west central along and off north coastal Andhra Pradesh adjoining northwest Bay of Bengal; Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

**07 Oct (Day 4): ♦ Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over Uttarakhand and West Uttar Pradesh; **heavy to very heavy rainfall** at isolated places over East Uttar Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, East Madhya Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh and Assam & Meghalaya.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe.

♦**Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is likely over Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

**08 Oct (Day 5): ♦ Heavy to very heavy rainfall** at isolated places likely over Uttarakhand and Northern parts of Uttar Pradesh and **heavy rainfall** at isolated places over East Madhya Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka and Interior Tamil Nadu.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Karnataka.

♦**Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is likely over Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. 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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भारत मौसम विज्ञान विभाग  
पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre  
India Meteorological Department  
Ministry of Earth Sciences

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**Table-1**  
**5 Day Rainfall Forecast (MORNING)**  
**04-October-2022**

Met-Sub-Division	04-Oct Today	05Oct Wed	06Oct Thu	07Oct Fri	08Oct Sat
1. Andaman & Nicobar Islands	WS	WS	WS	WS	WS
2. Arunachal Pradesh	SCT	FWS	FWS	WS	WS
3. Assam & Meghalaya	SCT	SCT	FWS	FWS	FWS
4. N. M. M. & T.	FWS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	WS	WS	FWS	FWS	FWS
6. Gangetic West Bengal	WS	FWS	FWS	SCT	SCT
7. Odisha	WS	FWS	FWS	SCT	SCT
8. Jharkhand	WS	WS	FWS	SCT	SCT
9. Bihar	WS	WS	SCT	SCT	SCT
10. East Uttar Pradesh	SCT	WS	WS	WS	WS
11. West Uttar Pradesh	ISOL	ISOL	WS	WS	WS
12. Uttarakhand	ISOL	SCT	WS	WS	WS
13. Haryana, Chd & Delhi	DRY	ISOL	SCT	ISOL	ISOL
14. Punjab	DRY	DRY	ISOL	DRY	ISOL
15. Himachal Pradesh	ISOL	SCT	FWS	FWS	FWS
16. J & K and Ladakh	DRY	DRY	ISOL	ISOL	ISOL
17. West Rajsthan	DRY	DRY	DRY	ISOL	ISOL
18. East Rajasthan	ISOL	ISOL	SCT	SCT	SCT
19. West Madhya Pradesh	ISOL	SCT	SCT	SCT	SCT
20. East Madhya Pradesh	SCT	WS	WS	FWS	FWS
21. Gujarat Region	DRY	DRY	ISOL	ISOL	ISOL
22. Saurashtra & Kutch	ISOL	DRY	DRY	DRY	DRY
23. Konkan & Goa	ISOL	SCT	SCT	SCT	SCT
24. Madhya Maharashtra	ISOL	ISOL	SCT	SCT	SCT
25. Marathwada	ISOL	SCT	SCT	SCT	SCT
26. Vidharbha	SCT	FWS	FWS	SCT	SCT
27. Chhattisgarh	FWS	WS	FWS	SCT	SCT
28. Coastal A. P. & Yanam	FWS	FWS	FWS	FWS	FWS
29. Telangana	ISOL	FWS	FWS	SCT	SCT
30. Rayalaseema	ISOL	ISOL	ISOL	SCT	SCT
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	SCT	SCT	SCT
32. Coastal Karnataka	FWS	FWS	FWS	FWS	FWS
33. North Interior Karnataka	SCT	SCT	SCT	SCT	FWS
34. South Interior Karnataka	SCT	SCT	SCT	FWS	WS
35. Kerala & Mahe	SCT	SCT	SCT	FWS	WS
36. Lakshadweep	SCT	SCT	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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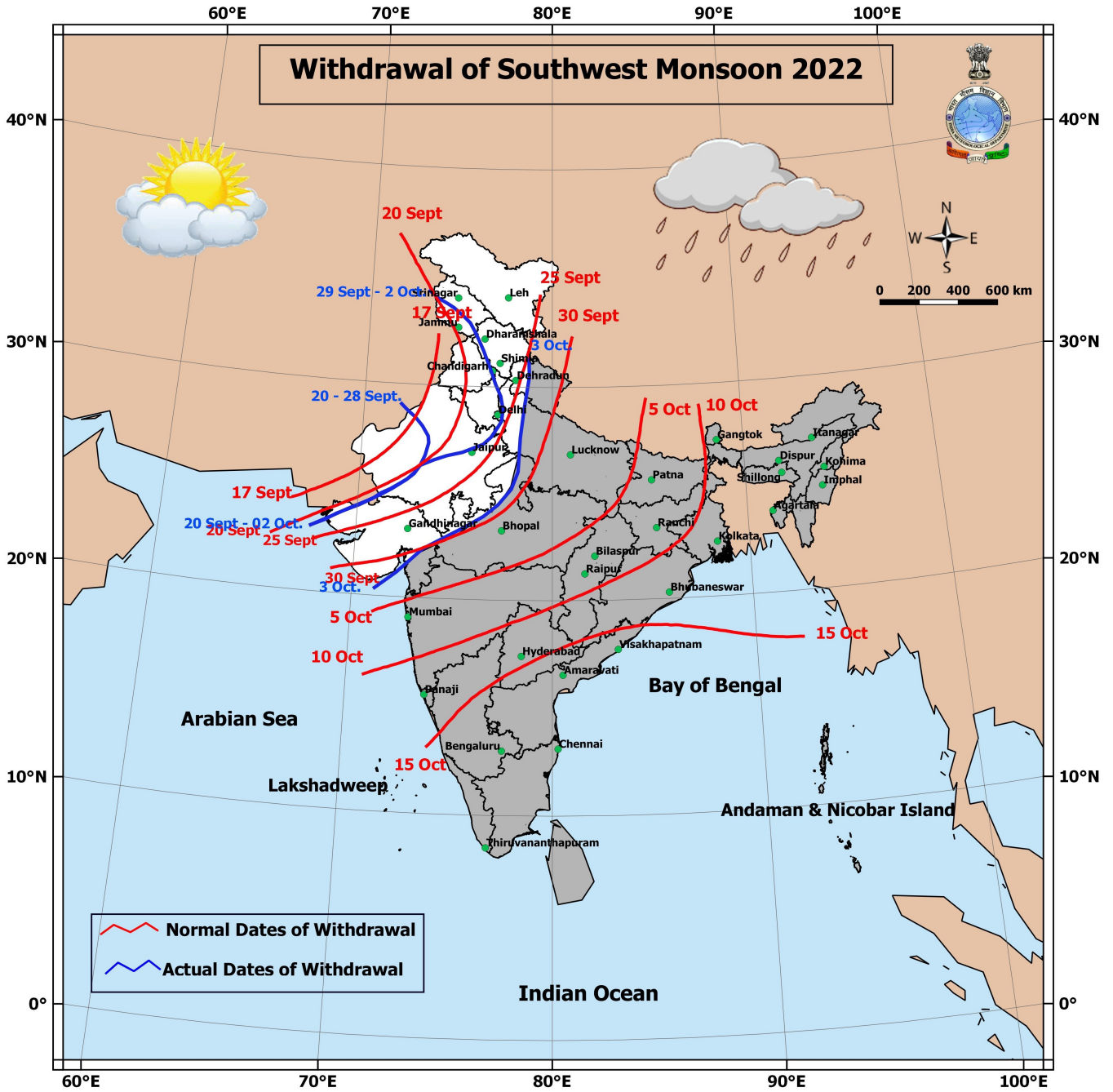
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Fig.1 Withdrawal of Southwest Monsoon 2022



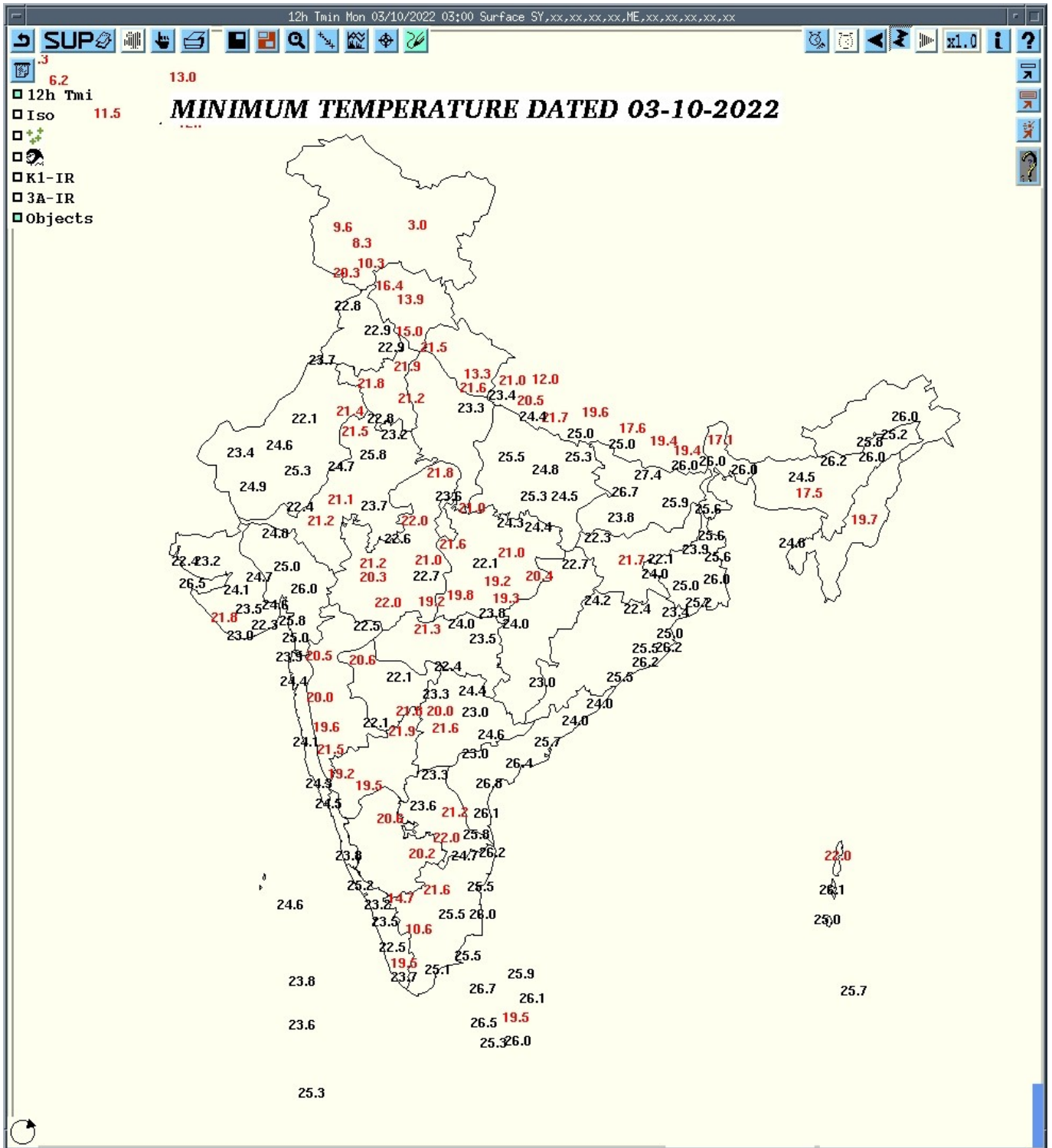
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Fig. 4: Minimum Temperature during past 24 hours

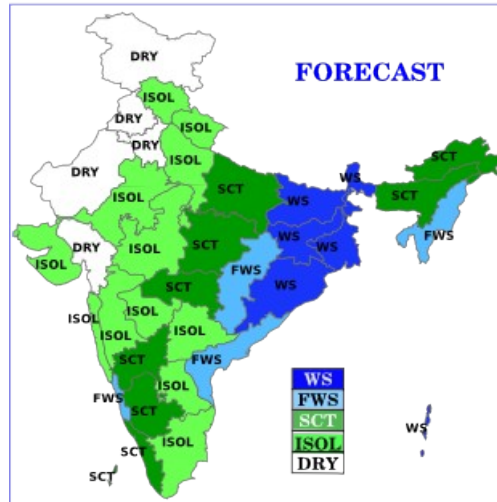


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## Tuesday 04 October 2022



**04 Oct (Day 1): ♦ Heavy to very heavy rainfall** at isolated places very likely over Bihar, Sub-Himalayan West Bengal & Sikkim and Odisha and **heavy rainfall** at isolated places over East Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

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

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over west central along and off north Andhra Pradesh-south Odisha coasts and adjoining northwest Bay of Bengal; Southwest Bay of Bengal along and off Sri Lanka coast and adjoining southeast Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, some parts of west-central and adjoining northwest Bay of Bengal, Gulf of Mannar, Comorin area adjoining south of southwest Bay of Bengal along and off Sri Lanka coast and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

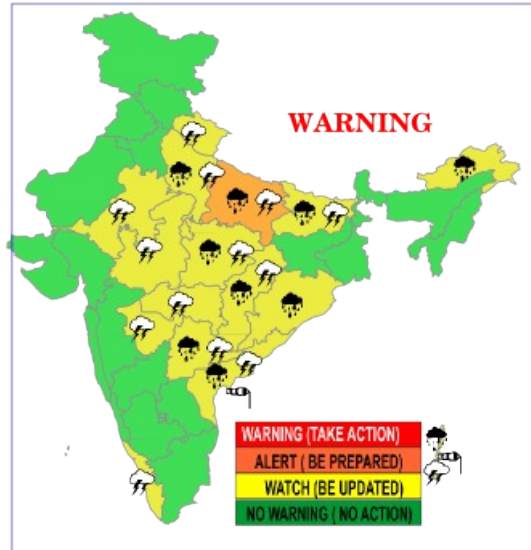
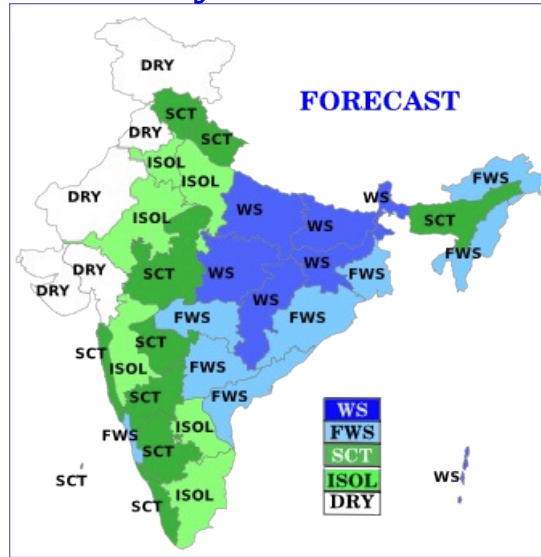
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(Created by the Met Office (2022))

## Wednesday 05 October 2022



**05 Oct (Day 2):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over East Uttar Pradesh and **heavy rainfall** at isolated places over West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Andaman & Nicobar Islands, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, west central along and off north coastal Andhra Pradesh adjoining northwest Bay of Bengal; Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, adjoining south of southwest Bay of Bengal along and off Sri Lanka coast. Fishermen are advised not to venture into these seas.

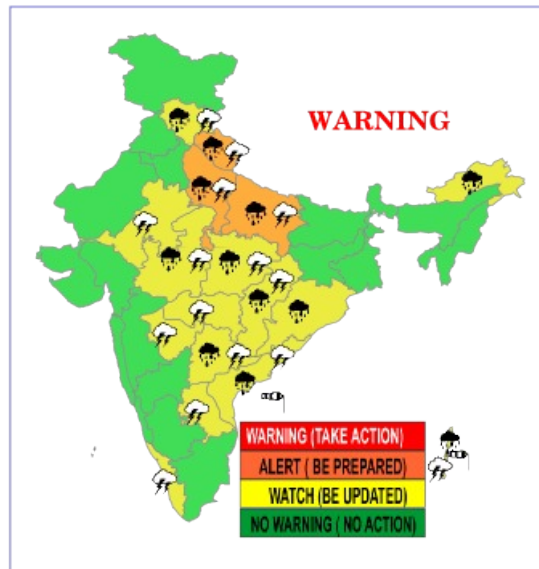
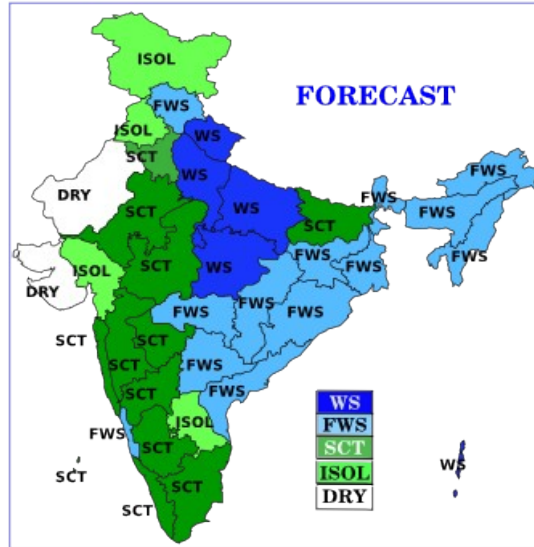
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## Thursday 06 October 2022



**06 Oct (Day 3): ♦ Heavy to very heavy rainfall** at isolated places likely over Uttarakhand and Uttar Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, Madhya Pradesh, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is likely west central along and off north coastal Andhra Pradesh adjoining northwest Bay of Bengal; Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

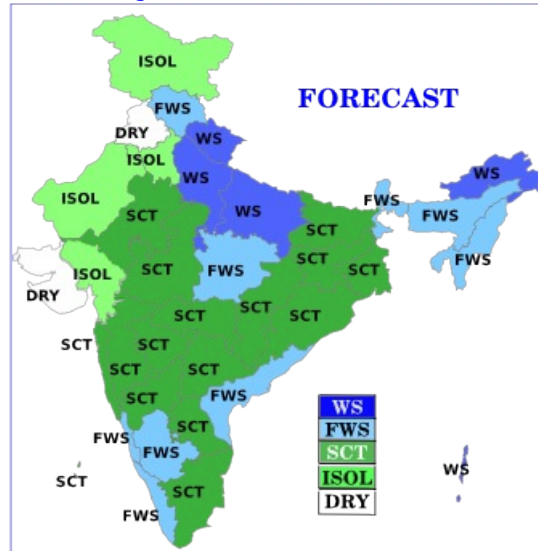
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## Friday 07 October 2022



**07 Oct (Day 4): ♦ Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over Uttarakhand and West Uttar Pradesh; **heavy to very heavy rainfall** at isolated places over East Uttar Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, East Madhya Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is likely over Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

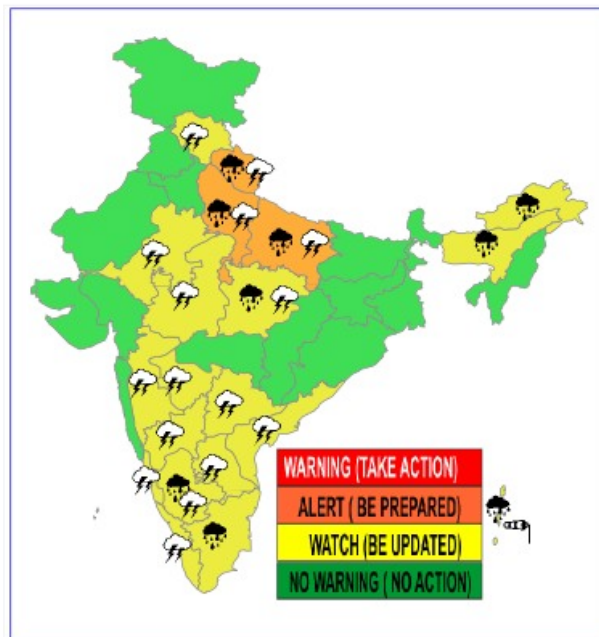
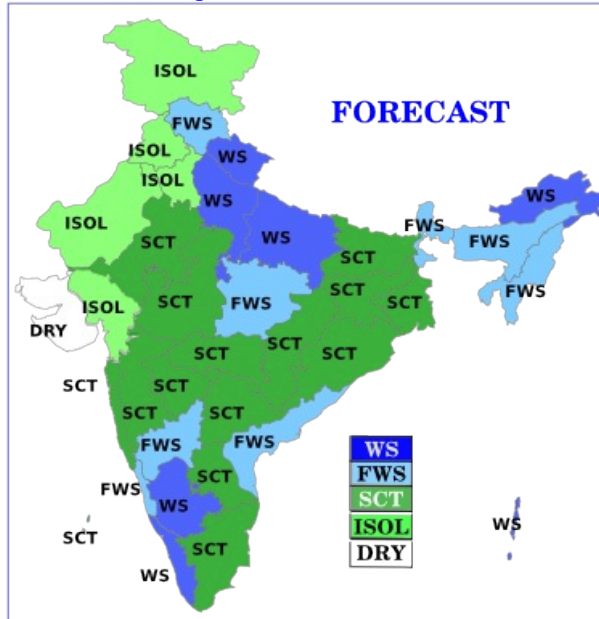
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## Saturday 08 October 2022



**08 Oct (Day 5):** ♦ **Heavy to very heavy rainfall** at isolated places likely over Uttarakhand and Northern parts of Uttar Pradesh and **heavy rainfall** at isolated places over East Madhya Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka and Interior Tamil Nadu.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Karnataka.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is likely over Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. 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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