



Thursday 01 September 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The **monsoon trough** at mean sea level runs North of its normal position.
- ◆ A cyclonic circulation lies over south Tamil Nadu & neighbourhood in lower tropospheric levels.
- ◆ A trough runs from the above cyclonic circulation over south Tamilnadu & neighbourhood to central Madhya Pradesh in lower tropospheric levels.
- ◆ **Under the influence of the above systems:**
  - (i) Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh and Assam & Meghalaya during next 5 days. Isolated **very heavy rainfall** also likely over Arunachal Pradesh and Assam & Meghalaya on 02nd & 03rd September, 2022.
  - (ii) Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** & thunderstorm/lightning very likely over south Madhya Pradesh on 01st September; Bihar on 01st & 02nd September and over Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated **very heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim during 01st-03rd September, 2022.
  - (iii) Isolated/scattered light/moderate rainfall over Western Himalayan Region during next 2 days and fairly widespread/widespread rainfall during subsequent 2 days with isolated **heavy falls** and thunderstorm/lightning very likely over Jammu & Kashmir, Himachal Pradesh on 04th and Uttarakhand on 04th September, 2022.
  - (iv) Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over North Interior Karnataka on 01st September; Coastal Karnataka & Lakshadweep on 01st & 02nd September and over Tamil Nadu, Kerala & Mahe and South Interior Karnataka during next 5 days. Isolated **very heavy rainfall** also likely over South Interior Karnataka, Tamil Nadu and Kerala & Mahe on 01st September, 2022.

Main Weather Observations

- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at many places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Lakshadweep, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal; at a few places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar, Gangetic West Bengal, Assam & Meghalaya and Telangana and at isolated places over Punjab, Jharkhand, Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema and Andaman & Nicobar Islands.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday)(2 cm or more):** Bihar: Purnea-5, Patna-4; **Sub-Himalayan West Bengal:** Balurghat-4; **Punjab:** Ludhiana-3; **East Uttar Pradesh:** Varanasi-3; **Nagaland, Manipur, Mizoram & Tripura:** Kailashahar-3; **Gangetic West Bengal:** Panagarh-3; **Assam & Meghalaya:** Tezpur-3; **Marathwada:** Aurangabad-2; **Chhattisgarh:** PBO Raipur-2; Rayalaseema: Tirupathi-2.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar, Odisha, Marathwada, Madhya Maharashtra, Konkan & Goa, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Saurashtra & Kutch, Punjab, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, West Bengal & Sikkim and Assam & Meghalaya.
- ◆ **Minimum Temperature Departures (as on 31-08-2022):** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at most places over Uttarakhand and Punjab; at many places over Jharkhand and Gangetic West Bengal; at a few places over Himachal Pradesh, West Rajasthan, West Uttar Pradesh, Odisha, Madhya Maharashtra and Marathwada; at isolated places over East Uttar Pradesh, Madhya Pradesh, Gujarat Region, Telangana and Rayalaseema. They are **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the **lowest minimum temperature** of 20.6°C is reported at **Malanjikhand (East Madhya Pradesh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 31-08-2022):** Maximum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at most places over Vidarbha; at many places over Uttarakhand, West Madhya Pradesh, Madhya Maharashtra, Chhattisgarh and North Interior Karnataka; at a few places over Gangetic West Bengal, East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Himachal Pradesh, Punjab, East Rajasthan, Gujarat Region, Marathwada, Jharkhand and Odisha; at many places over Saurashtra & Kutch and Telangana; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, Konkan & Goa and Andaman & Nicobar Islands and at isolated places over Uttar Pradesh and Coastal Andhra Pradesh & Yanam. They are **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Tamilnadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and near normal over rest parts of the country. Today, the **highest maximum temperature** of 39.0°C is reported at **Churu (West Rajasthan)** over the plains of the country.

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

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

- ◆ The **monsoon trough** at mean sea level now passes through Ferozpur, Kurukshetra, Bareilly, Bahraich, Supaul and thence eastwards to Nagaland across north Bangladesh and Assam.
- ◆ The cyclonic circulation over south Tamilnadu & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The trough from above cyclonic circulation over south Tamilnadu & neighbourhood to central Madhya Pradesh across Interior Karnataka, Madhya Maharashtra, Marathwada extending upto 0.9 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 06th September, 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 06th September- 08th September, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over south Peninsular India, West Coast, Central, Northeast & East India.
- ◆ Isolated to scattered light/moderate rainfall activity over remaining parts of the country except Rajasthan where dry weather is likely.

## Weather Warning during next 5 days \*

**01 Sept (Day 1): ♦ Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Madhya Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Gujarat state, Coastal & North Interior Karnataka and Lakshadweep.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Konkan & Goa, Gujarat state, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala and Karnataka coasts, Lakshadweep area, Maldives, adjoining southeast Arabian Sea, Comorin area, southwest and adjoining southeast Bay of Bengal. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, south of southwest Bay of Bengal. Fishermen are advised not to venture into these seas.

**02 Sept (Day 2): ♦ Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Bihar, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, East Uttar Pradesh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala and Karnataka coasts, Lakshadweep area, Maldives, adjoining southeast Arabian Sea, Comorin area, southwest and adjoining southeast Bay of Bengal. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, Gulf of Mannar, south Tamil Nadu coast. Fishermen are advised not to venture into these seas.

**03 Sept (Day 3): ♦ Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala and Karnataka coasts, Lakshadweep area, Maldives, adjoining southeast Arabian Sea, Comorin area, southwest Bay of Bengal. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, Gulf of Mannar, south Tamil Nadu coast. Fishermen are advised not to venture into these seas.

**04 Sept (Day 4): ♦ Heavy rainfall** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala coast, Lakshadweep area, Maldives, Comorin area. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, Gulf of Mannar, south Tamil Nadu coast, south of southwest Bay of Bengal. Fishermen are advised not to venture into these seas.

**05 Sept (Day 5): ♦ Heavy rainfall** at isolated places likely over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala coast, Lakshadweep area, Maldives, Comorin area. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, Gulf of Mannar, south Tamil Nadu coast, south of southwest 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.**

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

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**Table-1**  
**5 Day Rainfall Forecast (MORNING)**  
**01-September-2022**

Met-Sub-Division	01-Sep Today	02Sep Fri	03Sep Sat	04Sep Sun	05Sep Mon
1. Andaman & Nicobar Islands	FWS	FWS	FWS	FWS	FWS
2. Arunachal Pradesh	WS	WS	WS	FWS	FWS
3. Assam & Meghalaya	WS	WS	WS	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	SCT	SCT	FWS	FWS	FWS
7. Odisha	SCT	ISOL	ISOL	SCT	SCT
8. Jharkhand	FWS	FWS	FWS	FWS	FWS
9. Bihar	FWS	FWS	FWS	SCT	SCT
10. East Uttar Pradesh	SCT	SCT	ISOL	ISOL	ISOL
11. West Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
12. Uttarakhand	SCT	SCT	FWS	FWS	SCT
13. Haryana, Chd & Delhi	ISOL	ISOL	ISOL	ISOL	ISOL
14. Punjab	ISOL	ISOL	ISOL	ISOL	ISOL
15. Himachal Pradesh	ISOL	ISOL	FWS	FWS	SCT
16. J & K and Ladakh	ISOL	ISOL	SCT	SCT	ISOL
17. West Rajsthan	ISOL	DRY	DRY	DRY	DRY
18. East Rajasthan	ISOL	ISOL	ISOL	ISOL	ISOL
19. West Madhya Pradesh	SCT	SCT	SCT	ISOL	ISOL
20. East Madhya Pradesh	SCT	SCT	SCT	SCT	SCT
21. Gujarat Region	ISOL	ISOL	ISOL	ISOL	ISOL
22. Saurashtra & Kutch	ISOL	ISOL	ISOL	ISOL	ISOL
23. Konkan & Goa	FWS	FWS	FWS	WS	WS
24. Madhya Maharashtra	FWS	FWS	SCT	SCT	SCT
25. Marathawada	SCT	ISOL	ISOL	SCT	SCT
26. Vidharbha	SCT	SCT	SCT	SCT	ISOL
27. Chhattisgarh	SCT	SCT	SCT	SCT	SCT
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	SCT	SCT
29. Telangana	ISOL	ISOL	ISOL	SCT	SCT
30. Rayalaseema	SCT	ISOL	ISOL	SCT	SCT
31. T.N.,Puducherry & Karaikal	FWS	FWS	FWS	FWS	FWS
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	WS	FWS	FWS	FWS	FWS
34. South Interior Karnataka	WS	WS	WS	WS	WS
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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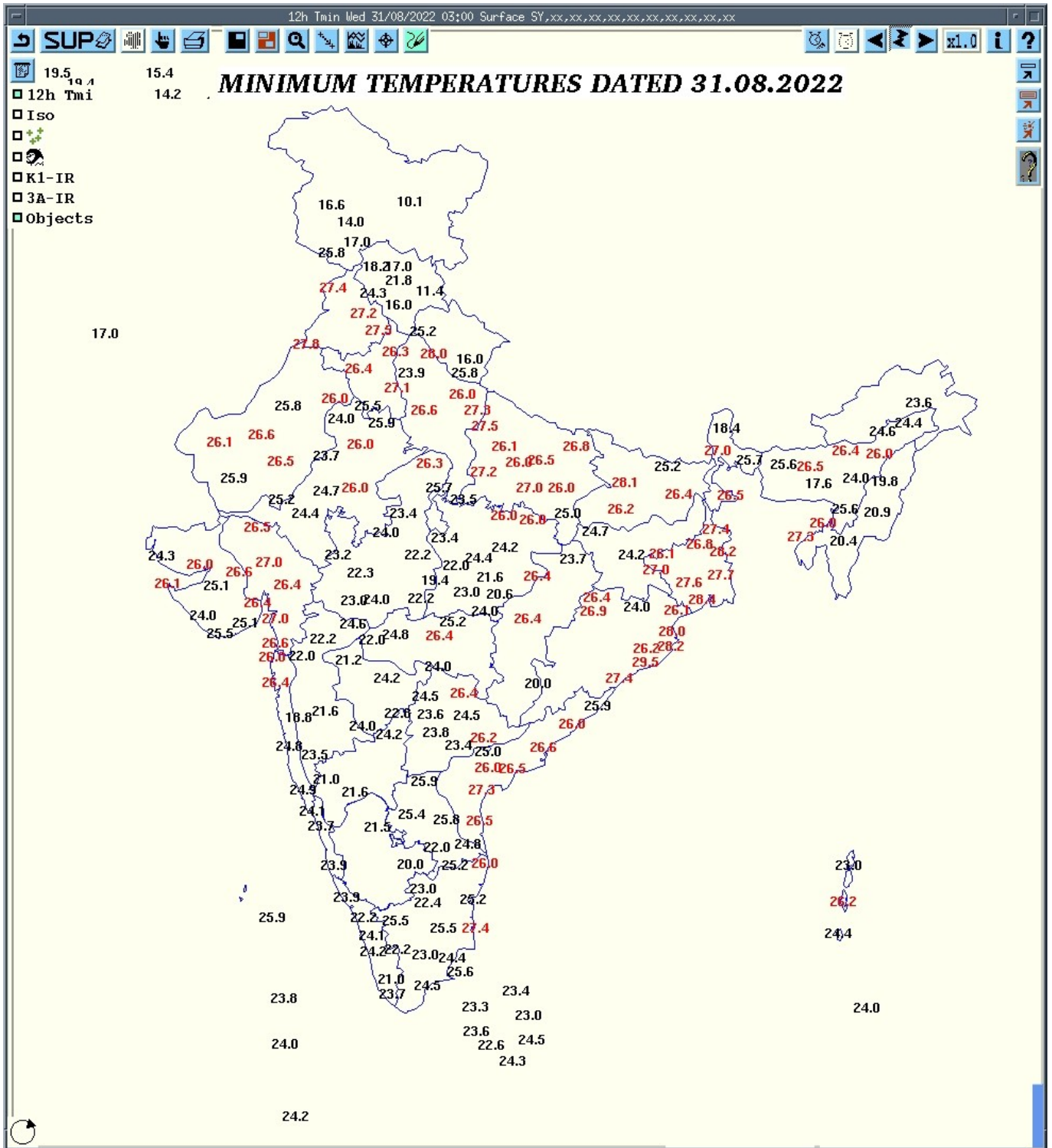
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Fig. 3: Minimum Temperature during past 24 hours



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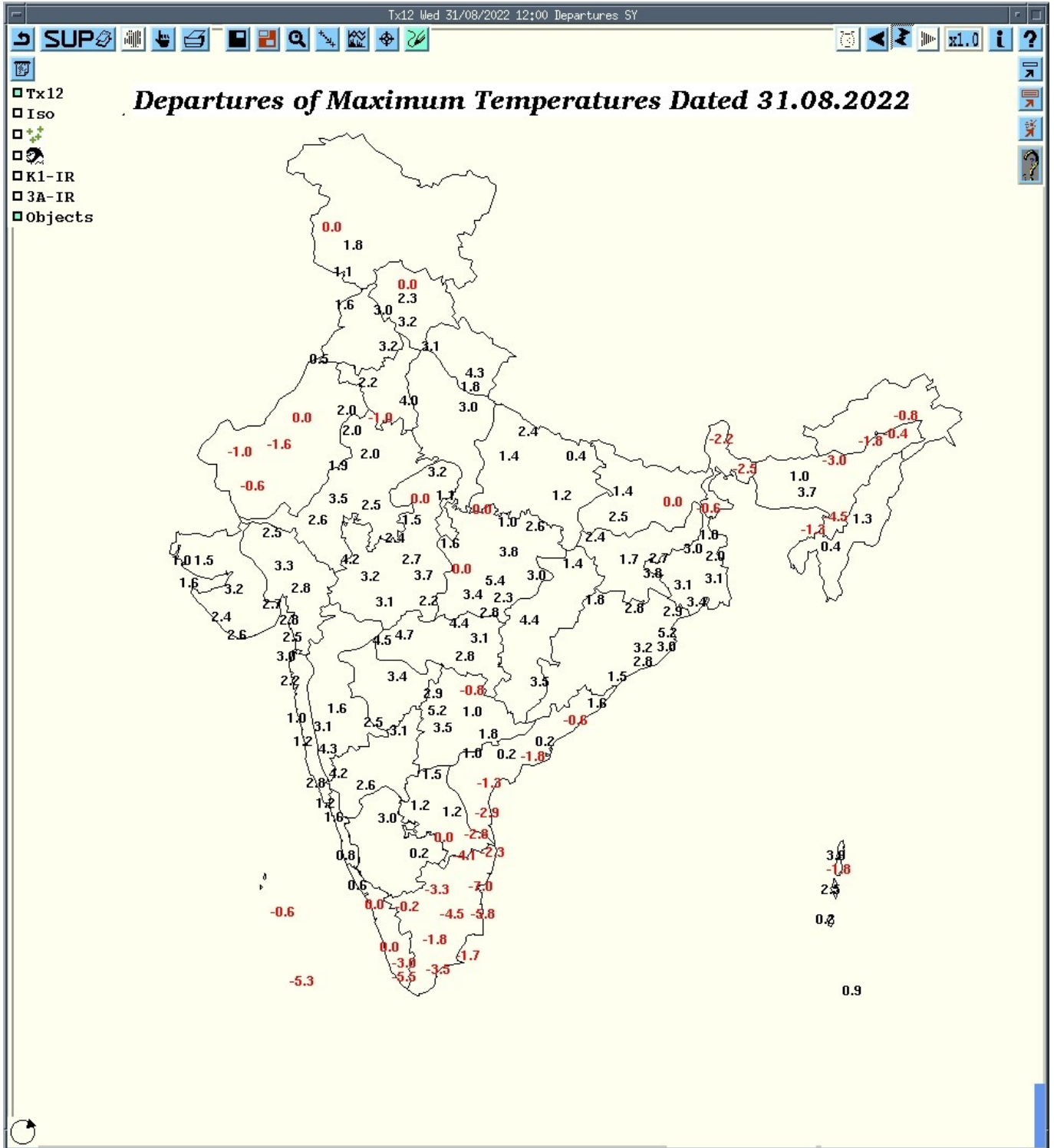
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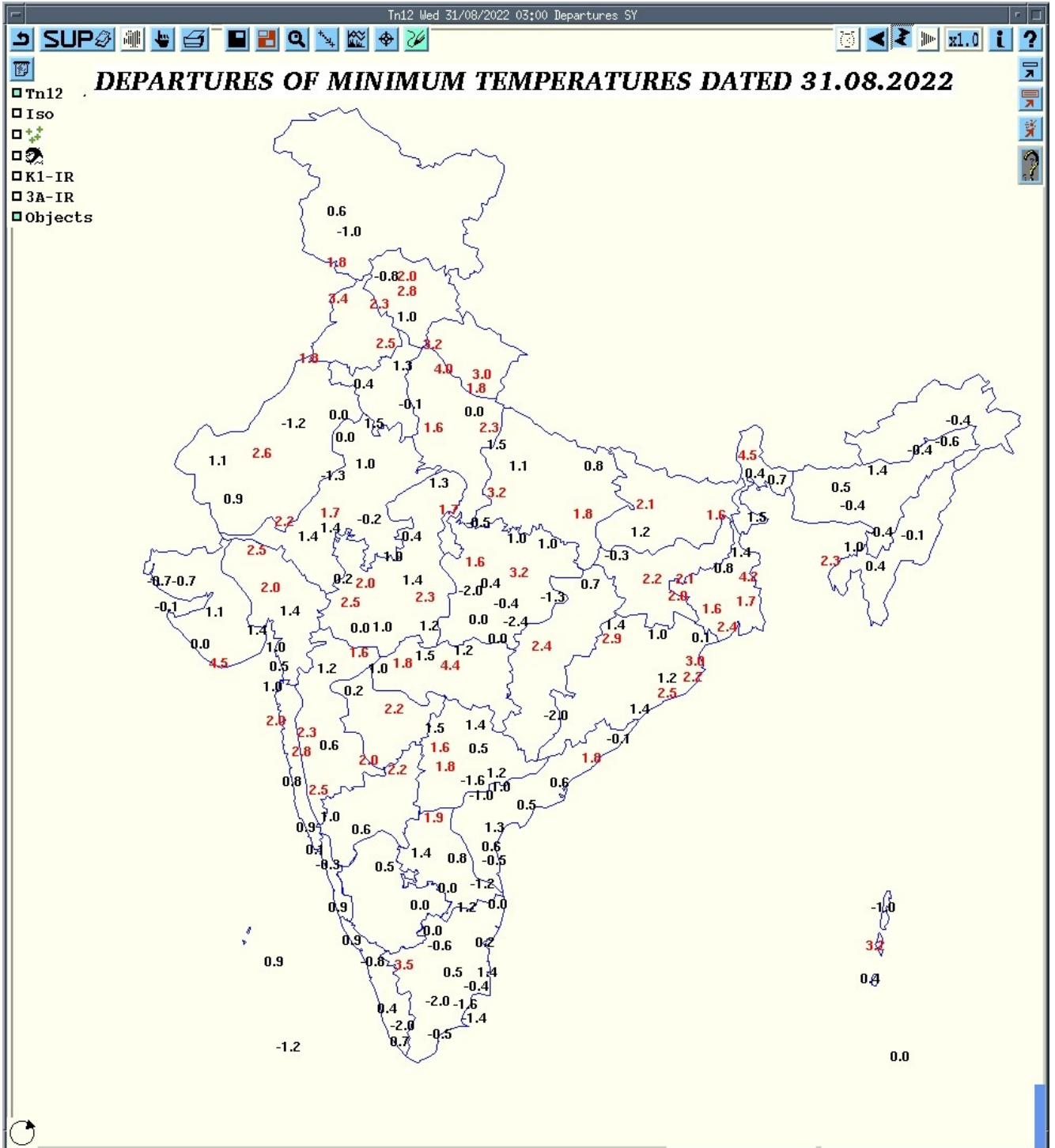
Fig. 4 : Departure from Normal of Maximum Temperatures



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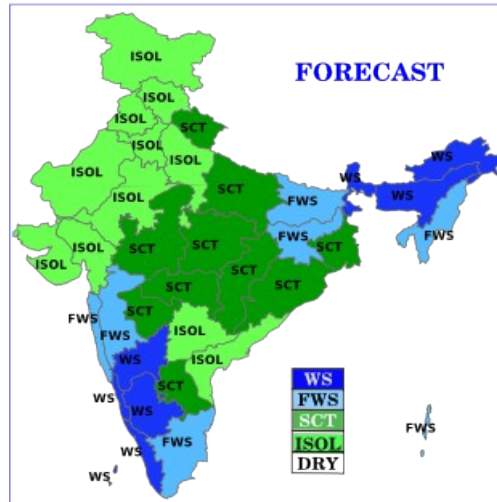
Fig. 5 : Departure from Normal of Minimum Temperatures



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## Thursday 01 September 2022



**01 Sept (Day 1): ♦ Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Madhya Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Gujarat state, Coastal & North Interior Karnataka and Lakshadweep.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Konkan & Goa, Gujarat state, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala and Karnataka coasts, Lakshadweep area, Maldives, adjoining southeast Arabian Sea, Comorin area, southwest and adjoining southeast Bay of Bengal. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, south of southwest Bay of Bengal. Fishermen are advised not to venture into these seas.

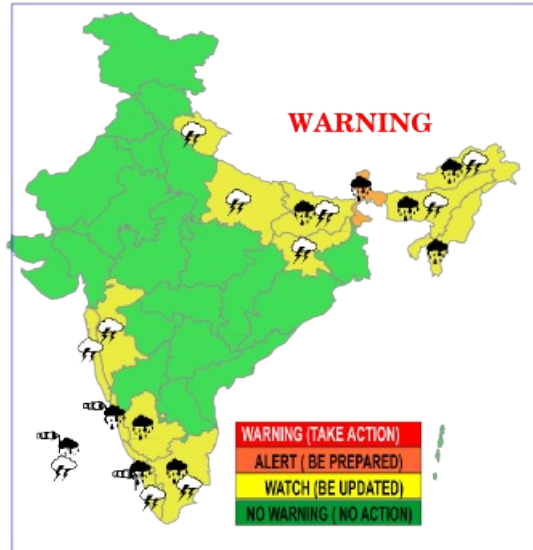
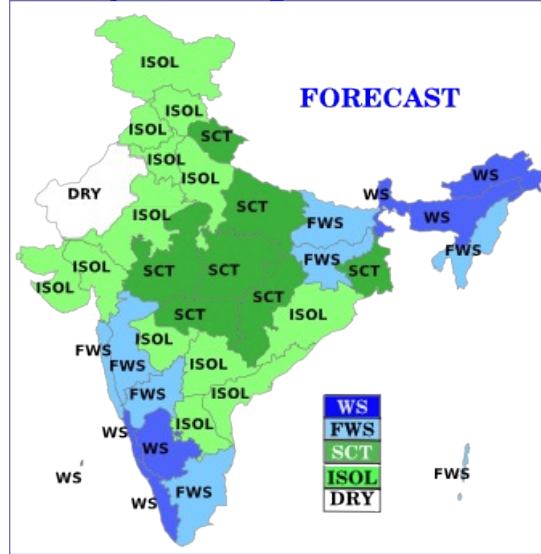
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## Friday 02 September 2022



**02 Sept (Day 2): ♦ Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Bihar, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, East Uttar Pradesh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala and Karnataka coasts, Lakshadweep area, Maldives, adjoining southeast Arabian Sea, Comorin area, southwest and adjoining southeast Bay of Bengal. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, Gulf of Mannar, south Tamil Nadu coast. Fishermen are advised not to venture into these seas.

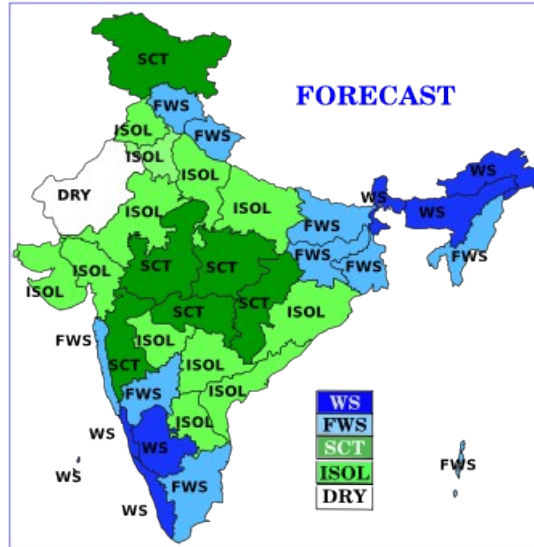
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## Saturday 03 September 2022



**03 Sept (Day 3): ♦ Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦**Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala and Karnataka coasts, Lakshadweep area, Maldives, adjoining southeast Arabian Sea, Comorin area, southwest Bay of Bengal. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, Gulf of Mannar, south Tamil Nadu coast. Fishermen are advised not to venture into these seas.

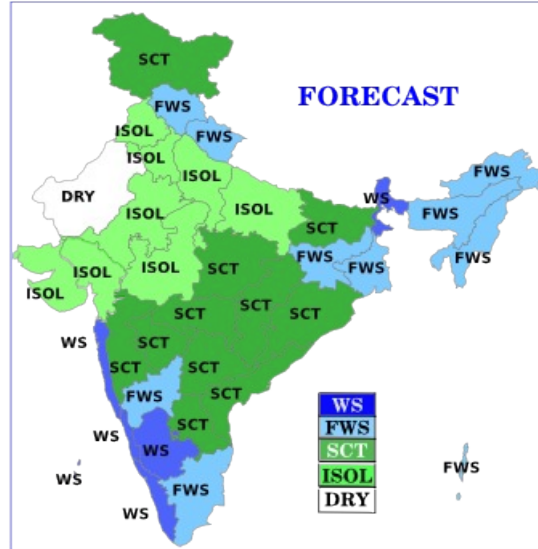
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## Sunday 04 September 2022



**04 Sept (Day 4): ♦ Heavy rainfall** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, South Interior Karnataka and Tamil Nadu, Puduchery & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puduchery & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala coast, Lakshadweep area, Maldives, Comorin area. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, Gulf of Mannar, south Tamil Nadu coast, south of southwest Bay of Bengal. Fishermen are advised not to venture into these seas.

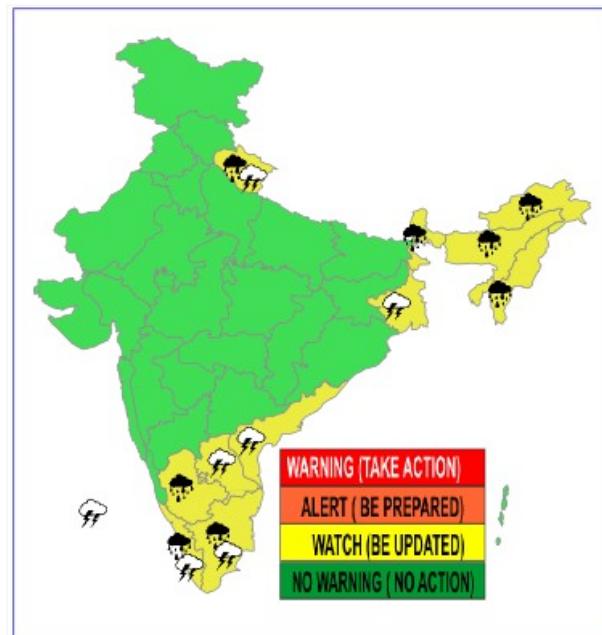
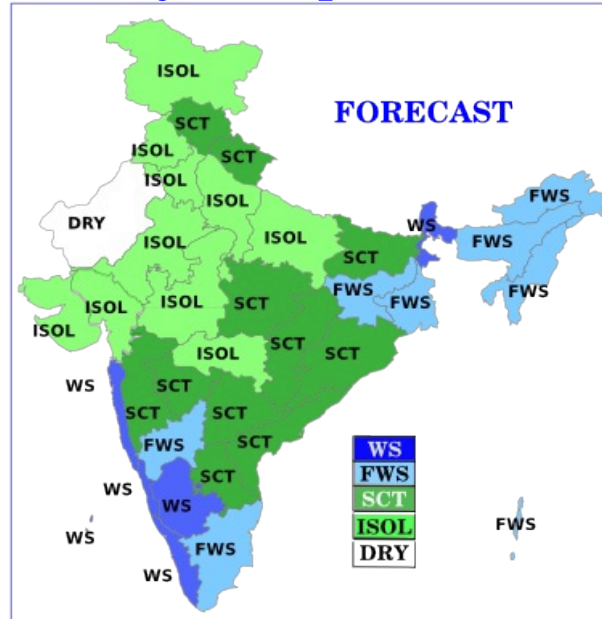
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## Monday 05 September 2022



**05 Sept (Day 5): ♦ Heavy rainfall** at isolated places likely over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off Kerala coast, Lakshadweep area, Maldives, Comorin area. Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest Arabian Sea and adjoining west-central, along and off Somalia coast, south Comorin area, Gulf of Mannar, south Tamil Nadu coast, south of southwest 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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