



Saturday 30 July 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 is north of its normal position. It is likely to be north of its normal position during next 4-5 days.
- ◆ A North-south trough runs from North Interior Karnataka to Comorin area across South Interior Karnataka and Interior Tamilnadu at lower tropospheric levels.
- ◆ Under the influence of above systems;
  - o Fairly widespread/widespread rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Himachal Pradesh during 30th-31st; Uttarakhand during 30th July-02nd August; Punjab & Haryana on 30th July and over East Uttar Pradesh during 31st July-03rd August, 2022.
- ◆ **Isolated very heavy rainfall also very likely over Uttarakhand during 30th-31st July, 2022.**
  - o Scattered to fairly widespread light/moderate rainfall with **thunderstorm & lightning** very likely to continue over Central, West, East and South India during next 4-5 days.
- ◆ Isolated **heavy falls** very likely over Jharkhand during 31st July-03rd August; Bihar during 30th July – 03rd August; Gangetic West Bengal on 31st; Rayalaseema on 02nd & 3rd August; Coastal Andhra Pradesh on 01st & 02nd August; South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 30th July – 03rd August, 2022.
- ◆ **Isolated very heavy rainfall also likely over Bihar on 30th & 31st; South Interior Karnataka and Kerala & Mahe on 02nd & 3rd August and over Tamilnadu during 31st July-03rd August 2022.**
  - o Widespread light/moderate rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.
- ◆ **Isolated very heavy rainfall also very likely over Sub-Himalayan West Bengal & Sikkim on 30th, 31st July, 02nd & 03rd August and over Assam & Meghalaya during 31st July-03rd August, 2022.**

Main Weather Observations

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- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at **most places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand and Punjab; at **many places** over Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, East Madhya Pradesh and Lakshadweep; at **a few places** over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Vidarbha, Telangana, Madhya Maharashtra and Andaman & Nicobar islands and at **isolated places** over Rajasthan, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Chattisgarh, Saurashtra & Kutch, Marathwada, North Interior Karnataka Odisha and Coastal Andhra Pradesh & Yanam.
- ◆ **Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall occurred at isolated places over Odisha.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday)(3 cm or more):** Koraput-10; Ranchi & Hyderabad-5 each; Mukteshwar, Seoni & Kota-4 each; Delhi (Ayanagar), Banda, Daltonganj, Kolkata & Kohima-3 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Uttarakhand, West Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Mizoram, Manipur & Tripura, Coastal & North & South Interior Karnataka, Vidarbha, Madhya Maharashtra, Marathawada, Vidarbha and Telangana.
- ◆ **Minimum Temperature Departures (as on 29-07-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Chhattisgarh, Jharkhand and Coastal Karnataka; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Odisha, Vidarbha and Telangana and Kerala & Mahe; at isolated places over West Bengal & Sikkim, Himachal Pradesh and Konkan & Goa. They were **below normal (-1.6°C to -3.0°C)** at isolated places over West Rajasthan, Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. **Yesterday**, the lowest minimum temperature of **18.4°C** was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 29-07-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Coastal & South Interior Karnataka, Rayalaseema and Kerala & Mahe; at a few places over Odisha, Gangetic West Bengal, Madhya Maharashtra and North Interior Karnataka; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana; **above normal (1.6°C to 3.0°C)** at most places over Jharkhand and Gujarat Region; at many places over Vidarbha, Konkan & Goa and Coastal Andhra Pradesh & Yanam; at a few places over Saurashtra & Kutch, West Madhya Pradesh and Andaman & Nicobar Islands; at isolated places over Sub-Himalayan West Bengal & Sikkim and East Madhya Pradesh. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and West Rajasthan; **below normal (-1.6°C to -3.0°C)** at a few places over Haryana, Chandigarh & Delhi Tamil Nadu, Puducherry & Karaikal; at isolated places over East Uttar Pradesh and near normal over rest parts of the country. **Yesterday**, the **highest maximum temperature of 38.4°C** was reported at **Fatehgarh (East Uttar Pradesh)**.

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

- ◆ The **monsoon trough** at mean sea level now passes through Ferozpur, Rohtak, Aligarh, Varanasi, Patna, Malda and thence eastwards to Manipur across Bangladesh.
- ◆ The North-south trough from North Interior Karnataka to Comorin area across South Interior Karnataka and Interior Tamilnadu at 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over South Interior Karnataka & neighbourhood at 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over Southeast Bay of Bengal between 0.9 km & 3.1 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 04th August 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Light to moderate thunderstorm activity likely to continue at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and north Rajasthan during next 3 days.
- ◆ No significant change in maximum temperatures very likely over the country during next 5 days.

### Weather Outlook for subsequent 2 days During 04th August - 06th August 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over Central, East and Northeast India.
- ◆ Scattered/fairly widespread light/moderate rainfall activity likely over Northwest & south Peninsular India.
- ◆ Isolated/scattered light/moderate rainfall activity likely over West India and Rajasthan.

## Weather Warning during next 5 days \*

**30 July (Day 1): ♦ Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Bihar and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Uttar Pradesh, Karnataka, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

**31 July (Day 2): ♦ Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Bihar and **heavy rainfall** at isolated places over Himachal Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, East Uttar Pradesh and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Odisha, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

**01 Aug (Day 3): ♦ Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Uttarakhand, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Odisha, East Uttar Pradesh, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

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

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

**02 Aug (Day 4): ♦ Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya, Kerala & Mahe, South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Uttarakhand, Arunachal Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, East Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Rayalaseema.

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

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Squally weather with speed reaching 40-50 kmph over Andaman Sea & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

**03 Aug (Day 5): ♦ Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya, Uttarakhand, Kerala & Mahe, South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Bihar, Jharkhand, East Uttar Pradesh, Coastal Karnataka, Lakshadweep and Rayalaseema.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Squally weather with speed reaching 40-50 kmph over Andaman Sea & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

**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)**  
**30-July-2022**

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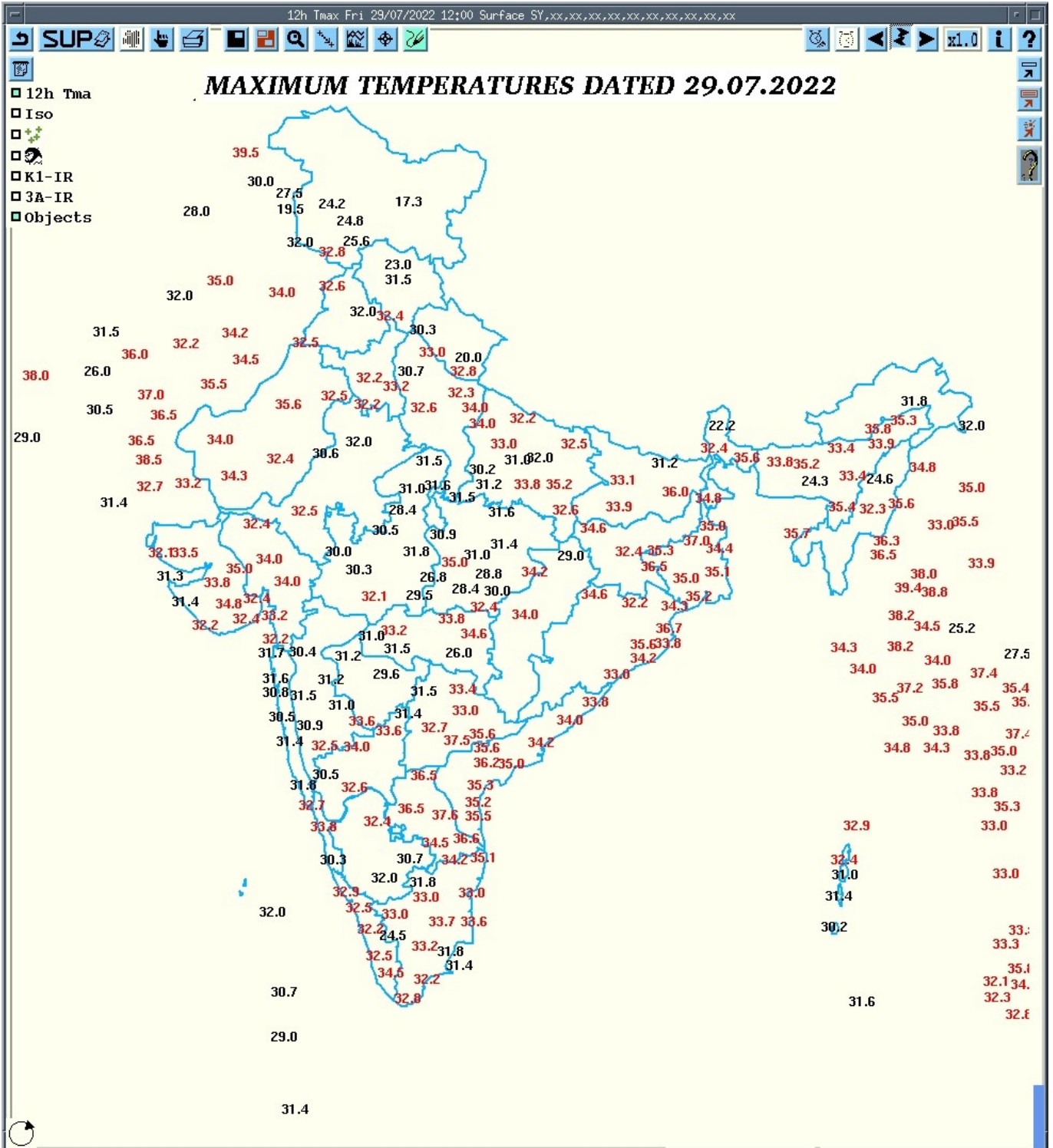
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Fig. 2: Maximum Temperature during past 24 hours



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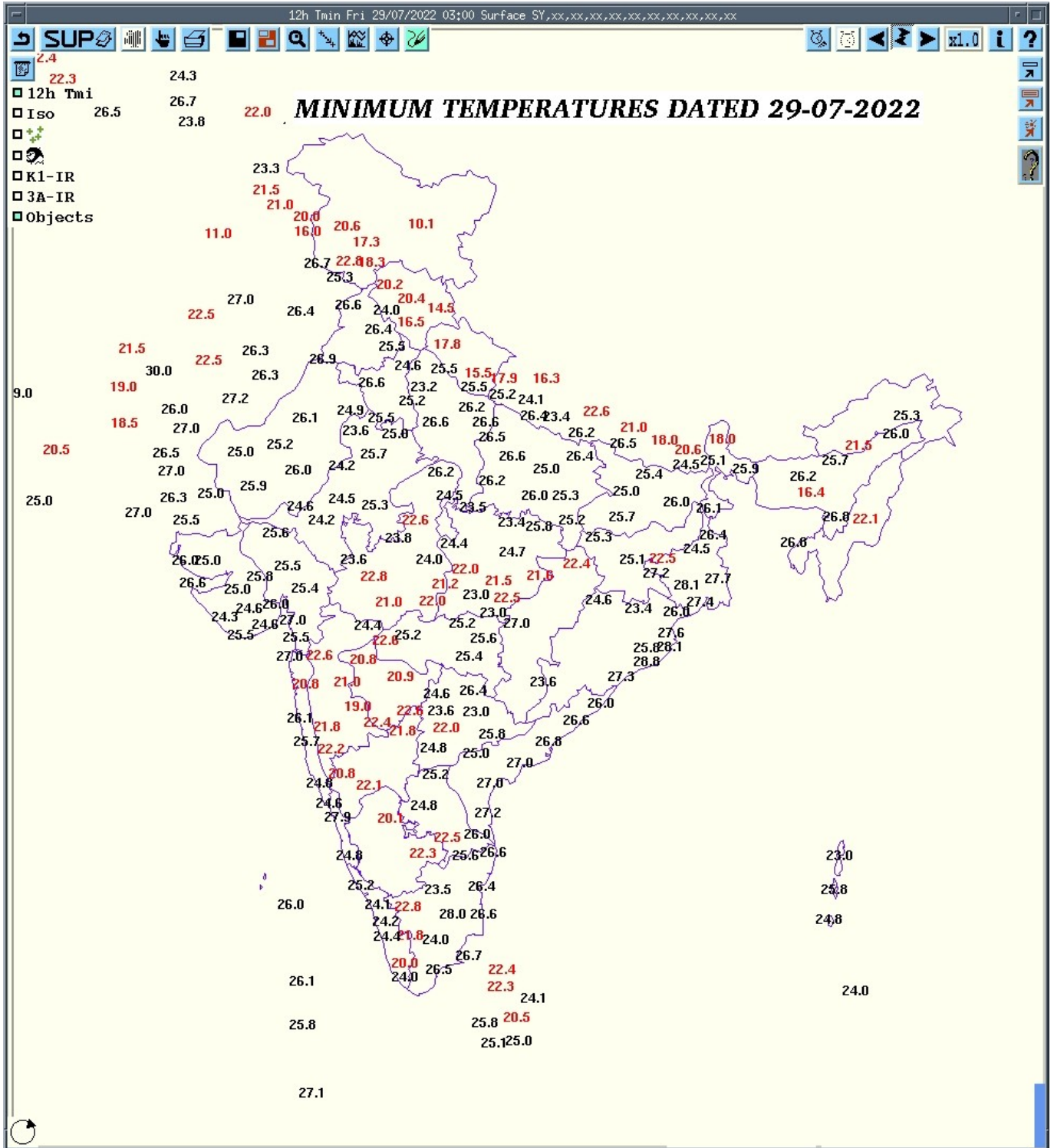
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Fig. 3: Minimum Temperature during past 24 hours

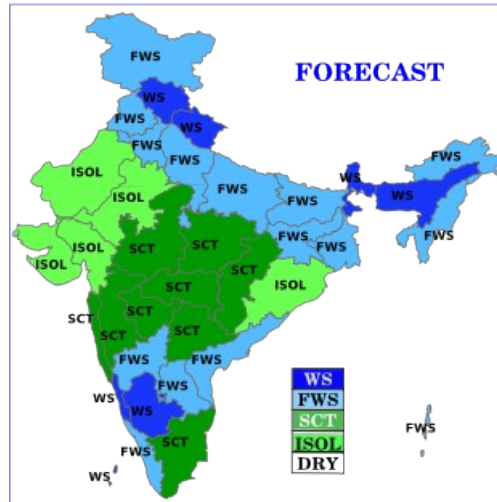


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## Saturday 30 July 2022



**30 July (Day 1):** ♦ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Bihar and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Uttar Pradesh, Karnataka, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

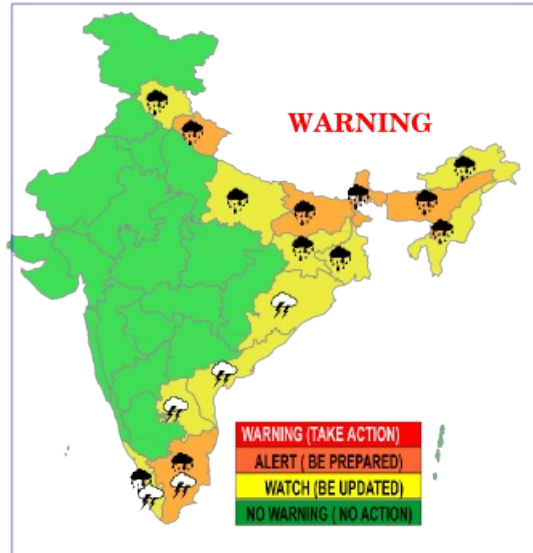
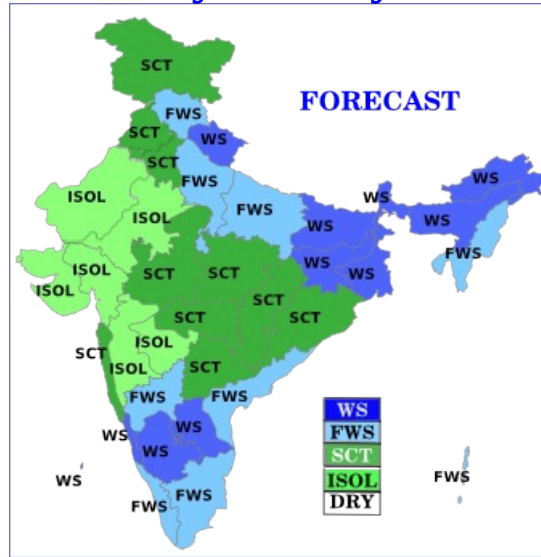
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## Sunday 31 July 2022



**31 July (Day 2):** ♦ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Bihar and **heavy rainfall** at isolated places over Himachal Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, East Uttar Pradesh and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Odisha, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

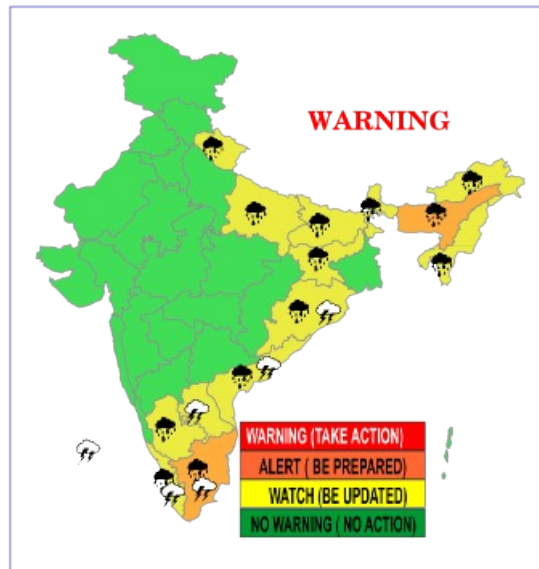
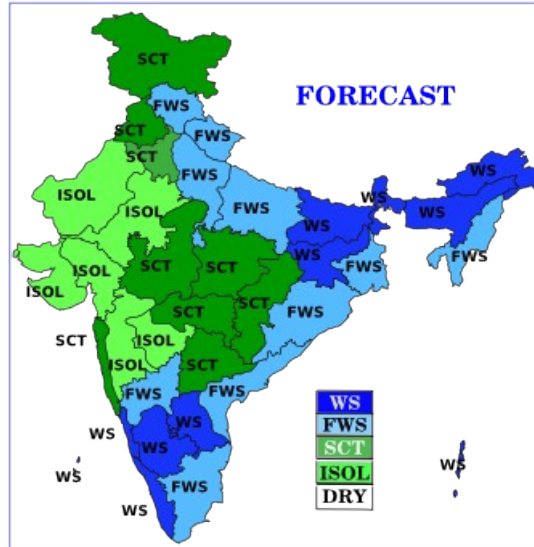
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## Monday 01 August 2022



**01 Aug (Day 3): ♦ Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Uttarakhand, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Odisha, East Uttar Pradesh, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

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

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

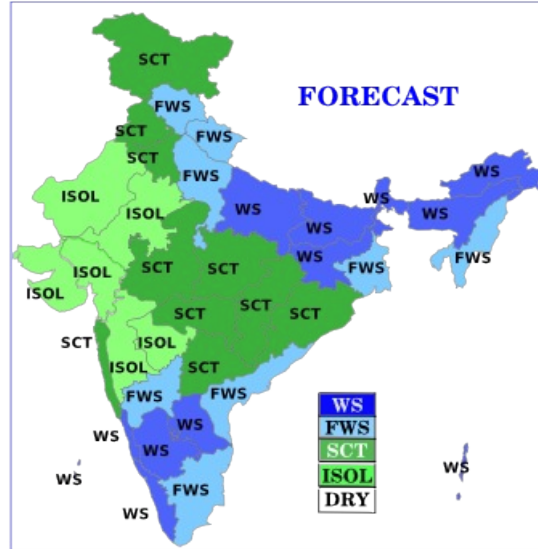
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## Tuesday 02 August 2022



**02 Aug (Day 4):** ♦ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya, Kerala & Mahe, South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Uttarakhand, Arunachal Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, East Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Rayalaseema.

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

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Squally weather with speed reaching 40-50 kmph over Andaman Sea & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

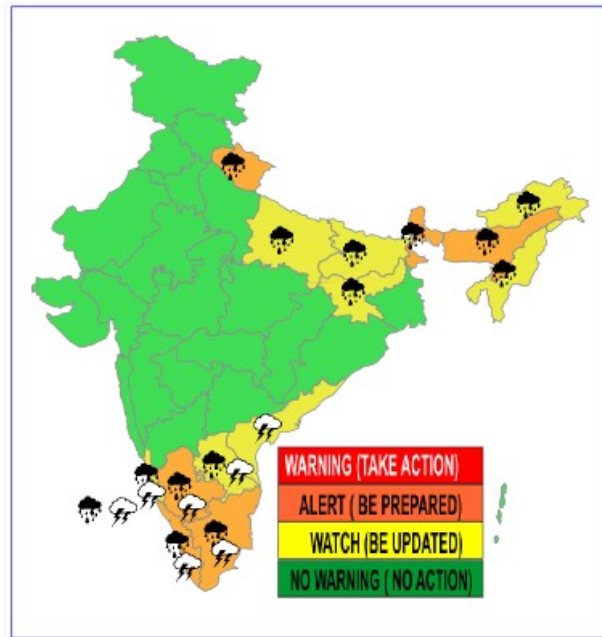
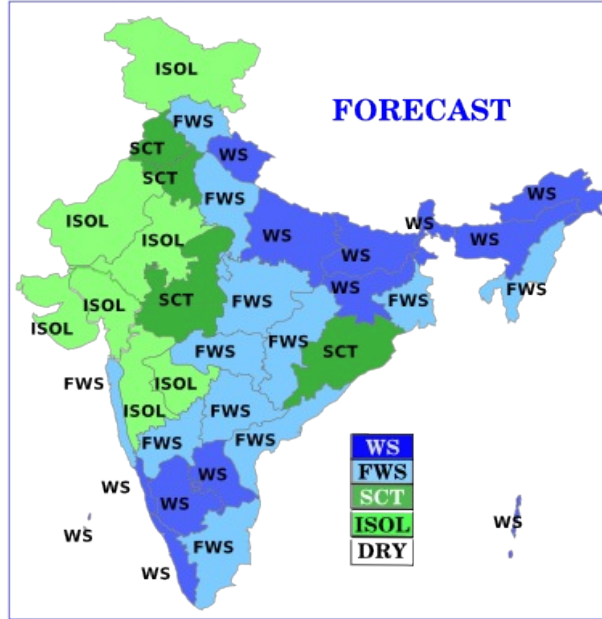
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## Wednesday 03 August 2022



**03 Aug (Day 5):** ♦ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya, Uttarakhand, Kerala & Mahe, South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Bihar, Jharkhand, East Uttar Pradesh, Coastal Karnataka, Lakshadweep and Rayalaseema.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph likely over southwest & adjoining westcentral Arabian Sea. Squally weather with speed reaching 40-50 kmph over Andaman Sea & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

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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

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(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  $4.5^{\circ}\text{C}$  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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