



Tuesday 19 July 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ A **Low Pressure Area** lies over central parts of Madhya Pradesh & neighbourhood with the associated cyclonic circulation extending upto middle tropospheric levels.
- ◆ The **monsoon trough** has shifted slightly northwards and is very likely to continue to shift further northwards towards its normal position during next 2 days.
- ◆ A cyclonic circulation lies over northwest & adjoining Westcentral Arabian Sea and extends upto 5.8 km above mean sea level tilting southwestwards with height.
- ◆ Under the influence of above systems;
 - ▶ Fairly widespread to widespread light/moderate rainfall with isolated heavy falls and thunderstorm/lightning very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Uttar Pradesh during 19th-22nd July, 2022.
 - Isolated to scattered very heavy rainfall very likely over Uttarakhand on 20th July, 2022.
 - Isolated very heavy rainfall also likely over East Rajasthan on 19th and Himachal Pradesh, Punjab, Haryana, Chandigarh & Uttar Pradesh on 20th July, 2022.
 - ▶ Widespread light/moderate rainfall with heavy falls very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.
 - Isolated very heavy falls also likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya on 19th July, 2022.
 - ▶ Fairly widespread/widespread light/moderate rainfall & thunderstorm/lightning very likely over Chhattisgarh, Vidarbha, Madhya Pradesh, Konkan & Goa, Kerala & Mahe, Coastal Karnataka and Lakshadweep during next 5 days.
 - Isolated heavy rainfall very likely over Konkan & Goa on 19th; Coastal Karnataka and East Madhya Pradesh on 19th & 20th; West Madhya Pradesh on 21st & 22nd; Vidarbha during 20th-22nd; Chhattisgarh and Kerala & Mahe during 19th-22nd July, 2022.
 - Isolated very heavy rainfall also likely over Vidarbha on 19th; West Madhya Pradesh during 19th-20th and over East Madhya Pradesh on 21st & 22nd July, 2022.
 - ▶ Scattered to fairly widespread rainfall very likely over Odisha, Gujarat State, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Interior Karnataka, Coastal Andhra Pradesh & Yanam and Telangana during next 5 days.
 - Isolated heavy rainfall very likely over Gujarat region, Madhya Maharashtra & South Interior Karnataka on 19th; Tamil Nadu during 19th-20th and over Telangana on 22nd July, 2022.

Main Weather Observations

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- ◆ **Rainfall/thundershower observed (from 0830-1730 hours IST of yesterday):** at most places over East Rajasthan, Chhattisgarh, Arunachal Pradesh, Madhya Maharashtra, Konkan & Goa, Coastal & North Interior Karnataka, Kerala & Mahe, Lakshadweep; at many places over Vidarbha, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Assam & Meghalaya, Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema; at a few places over West Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Saurashtra & Kutch, Marathwada and at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ◆ **Heavy rainfall observed (from 0830-1730 hours IST of yesterday):** Nil.
- ◆ **Chief amount of Rainfall observed (from 0830-1730 hours IST of yesterday):**(2 cm or more): Kodaikanal and Akola-4 each; Pasighat, Angul and Indore-3 each; Amraoti, Jalgaon, Tirupattur, Kottayam, Long Island and Nasik-2 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday-0530 hours IST of today):** at isolated places over Haryana, Chandigarh & Delhi, Rajasthan, Coastal Andhra Pradesh & Yanam and Tamilnadu.
- ◆ **Minimum Temperature Departures (as on 18-07-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at most places over Uttarakhand and East Uttar Pradesh; at many places over East Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Bihar and at isolated places over Assam & Meghalaya. They were **below normal (-1.6°C to -3.0°C)** at a few places over West Rajasthan, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Telangana; at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. **Yesterday, the lowest minimum temperature of 18.2°** was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 18-07-2022):** Maximum temperatures were **markedly above normal (5.1°C or more)** over at a few places over East Uttar Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at most places over Bihar; at many places over Uttarakhand, Punjab, West Rajasthan; at a few places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh; at many places over East Madhya Pradesh, Gangetic West Bengal; at a few places over West Madhya Pradesh and Andaman & Nicobar Islands. They were **markedly below normal (-5.1°C or less)** at at most places over Vidarbha; at many places over Marathwada; **appreciably below normal (-3.1°C to -5.0°C)** at at a few places over North Interior Karnataka; at isolated places over East Rajasthan, Madhya Maharashtra and Telangana; **below normal (-1.6°C to -3.0°C)** at most places over , Chhattisgarh, Coastal Andhra Pradesh & Yanam, at many places over , West Rajasthan, Gujarat Region, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, at a few places over South Interior Karnataka and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 40.1°C** was reported at **Fatehgarh (East Uttar Pradesh)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Low Pressure Area** over southeast Madhya Pradesh & adjoining northeast Vidarbha now lies over central parts of Madhya Pradesh & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestward with height.
- ◆ The **monsoon trough** now passes through Bikaner, Kota, centre of Low Pressure Area over central parts of Madhya Pradesh & neighbourhood, Daltonganj, Bankura, Haldia and thence southeastwards to Eastcentral Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The cyclonic circulation over northwest & adjoining Westcentral Arabian Sea extending upto 5.8 km above mean sea level tilting southwestwards with height persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 24th July 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ 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 24th July-26th July 2022

- ◆ Widespread rainfall activity likely over Gujarat State, Konkan- Goa and over parts of Central & adjoining East India.
- ◆ Fairly widespread/widespread rainfall activity with isolated heavy falls very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal and Northeastern states.
- ◆ Scattered rainfall activity likely over remaining parts of the country except Rayalaseema and Coastal Andhra Pradesh & Yanam where isolated activity is likely.



Weather Warning during next 5 days *

19 July (Day 1): ♦ **Heavy to very heavy rainfall at isolated places** very likely over East Rajasthan, West Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; **Heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph are very likely over westcentral and adjoining southwest Arabian Sea and 40-50 kmph gusting to 60 kmph are very likely over eastcentral and adjoining southeast Arabian Sea. Fishermen are advised not to venture into these areas.

20 July (Day 2): ♦ **Heavy to very heavy rainfall** at a few places very likely over Uttarakhand; **heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and West Madhya Pradesh; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar and Tamil Nadu, Puducherry & Karaikal.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph are very likely over westcentral and adjoining southwest Arabian Sea and 40-50 kmph gusting to 60 kmph are very likely over eastcentral and adjoining southeast Arabian Sea. Fishermen are advised not to venture into these areas.

21 July (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places likely over East Madhya Pradesh; **Heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal and Odisha.

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

22 July (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over East Madhya Pradesh; **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal.

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

23 July (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over East Madhya Pradesh; **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph are very likely over westcentral and adjoining southwest Arabian Sea. 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)
19-July-2022

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

% 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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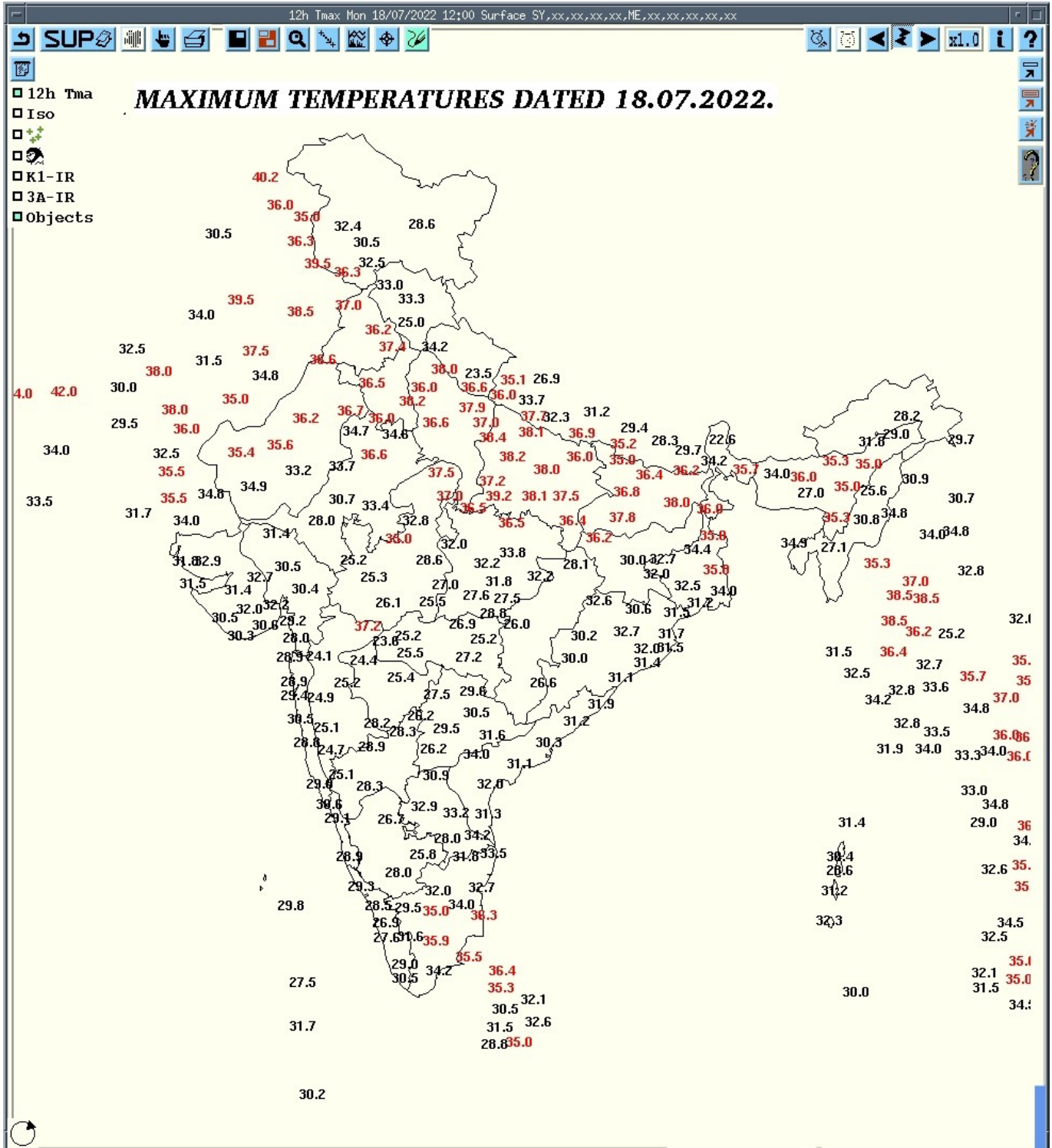
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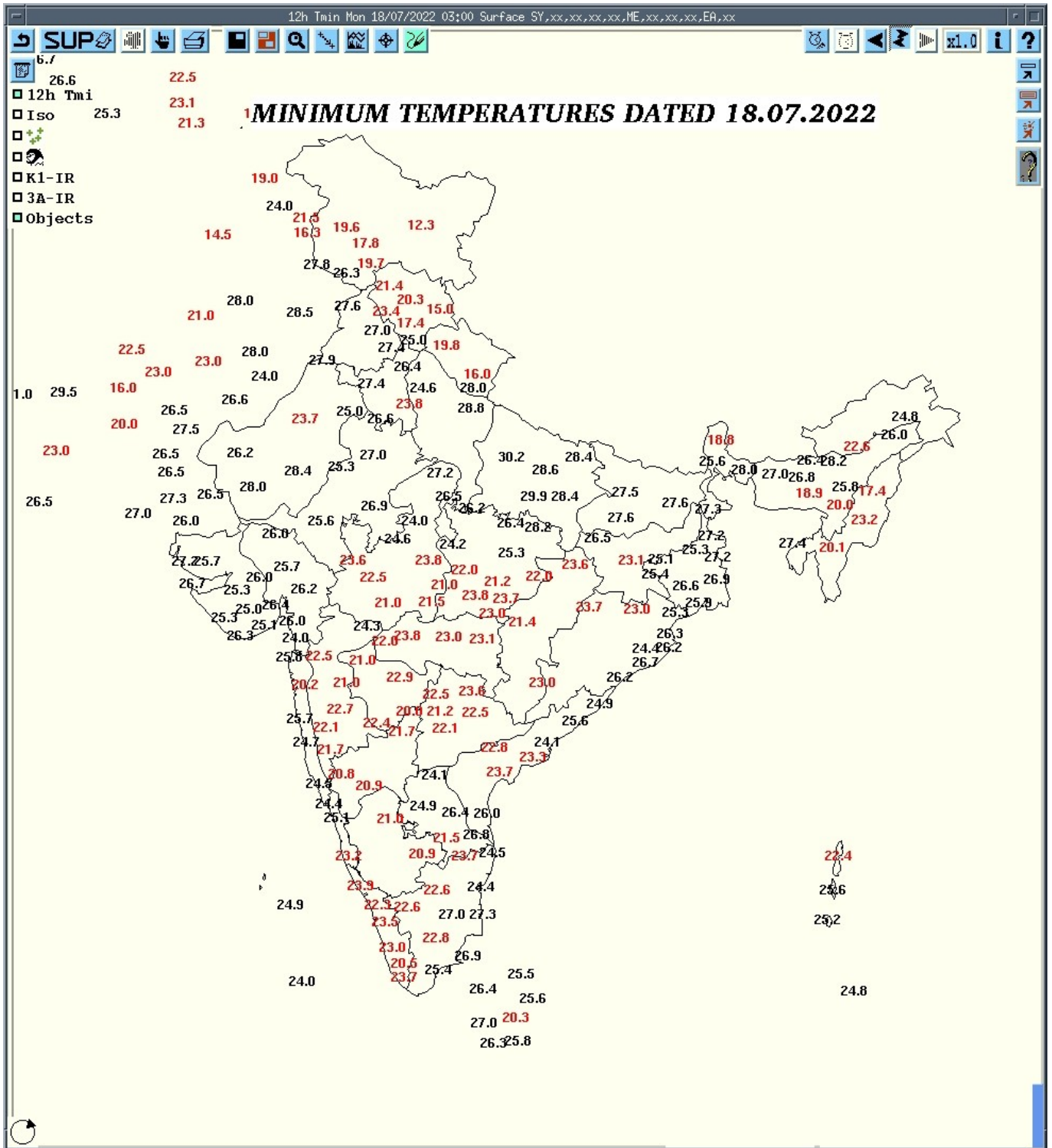
Fig. 2: Maximum Temperature during past 24 hours



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Fig. 3: Minimum Temperature during past 24 hours



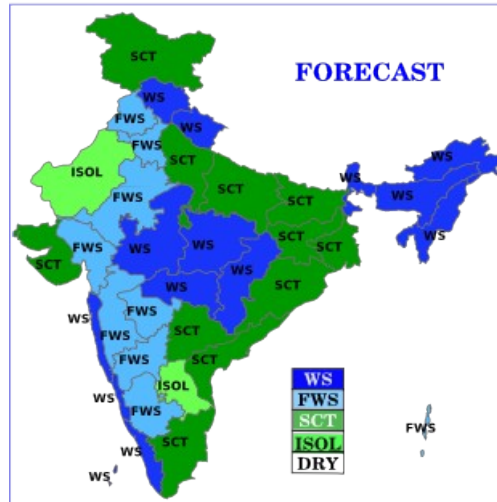
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(Created by the MetInfo@1877)

Tuesday 19 July 2022



19 July (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over East Rajasthan, West Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; **Heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph are very likely over westcentral and adjoining southwest Arabian Sea and 40-50 kmph gusting to 60 kmph are very likely over eastcentral and adjoining southeast Arabian Sea. Fishermen are advised not to venture into these areas.

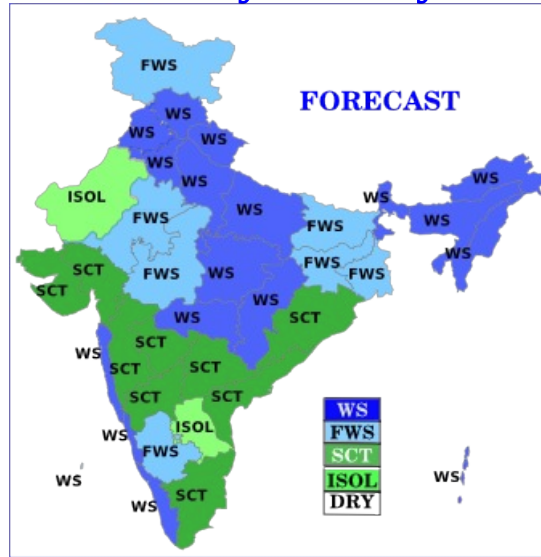
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Wednesday 20 July 2022



20 July (Day 2): ♦ Heavy to very heavy rainfall at a few places very likely over Uttarakhand; **heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and West Madhya Pradesh; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar and Tamil Nadu, Puducherry & Karaikal.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph are very likely over westcentral and adjoining southwest Arabian Sea and 40-50 kmph gusting to 60 kmph are very likely over eastcentral and adjoining southeast Arabian Sea. Fishermen are advised not to venture into these areas.

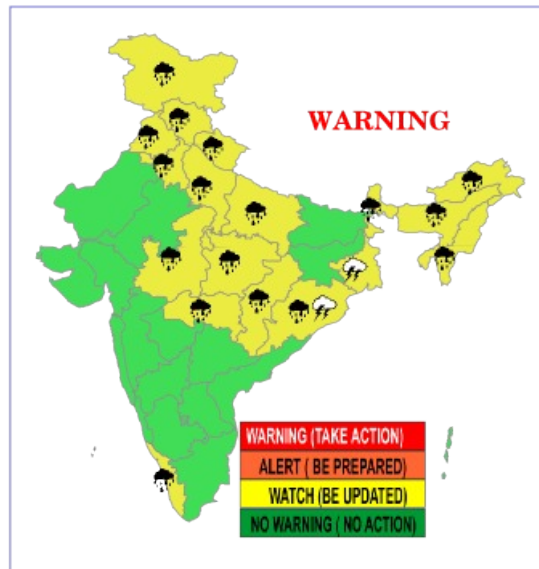
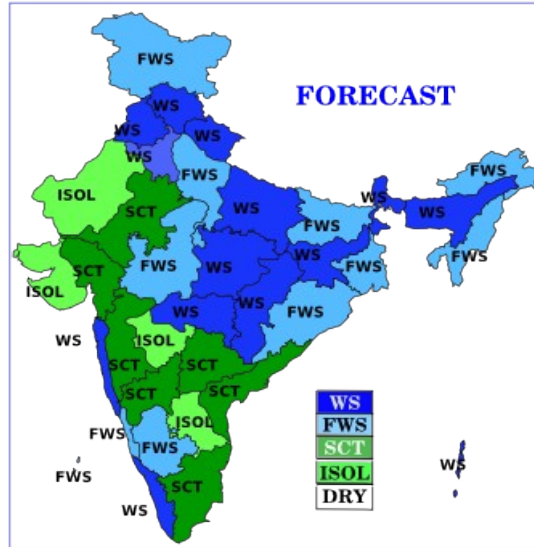
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Thursday 21 July 2022



21 July (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places likely over East Madhya Pradesh; **Heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal and Odisha.

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

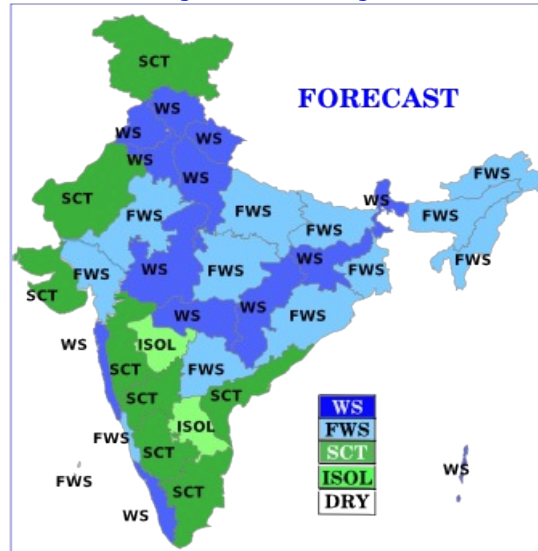
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Friday 22 July 2022



22 July (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over East Madhya Pradesh; **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal.

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

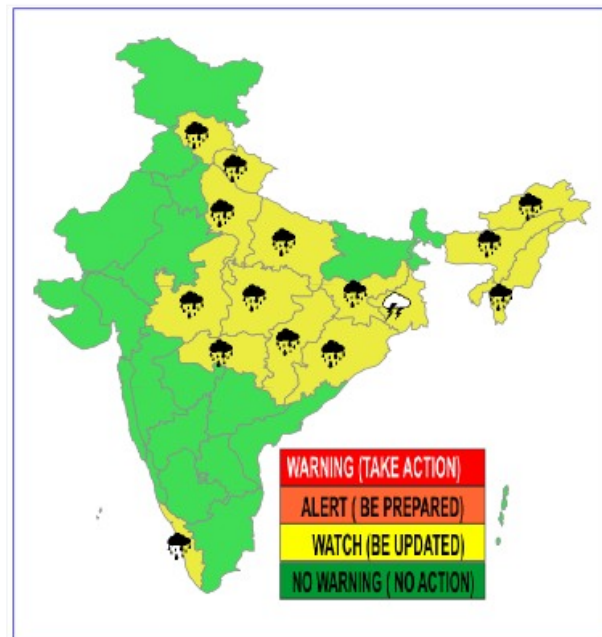
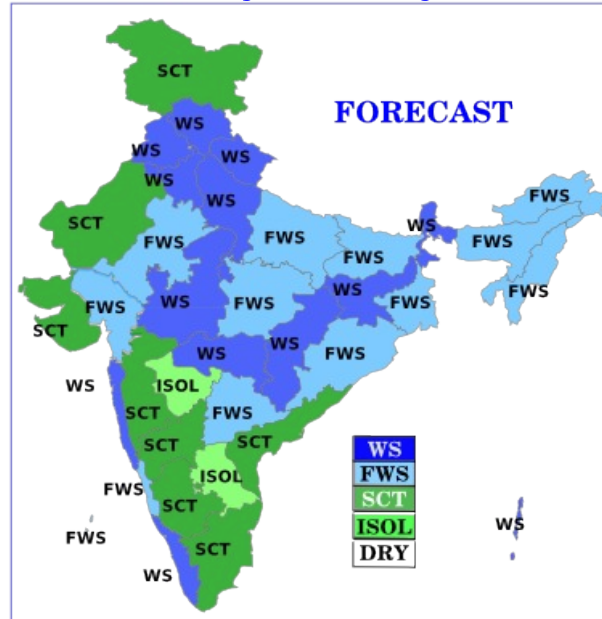
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Saturday 23 July 2022



23 July (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over East Madhya Pradesh; **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal.

♦ **Strong winds** with speed reaching 45-55 kmph gusting to 65 kmph are very likely over westcentral and adjoining southwest Arabian Sea. 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 एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एंवम् यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् 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

* 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

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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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