



Wednesday 17 August 2022

**MORNING**

Time of Issue: 0730 hours IST

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

- ◆ The **well marked low pressure area** over central parts of Rajasthan now lies over southwest Rajasthan & neighbourhood. It is very likely to continue to move west-northwestwards and weaken gradually into a **low pressure area** during next 12 hours.
- ◆ A Low Pressure Area is likely to form over North Bay of Bengal around 19th August, 2022.
- ◆ The western end of monsoon trough is south of its normal position, is likely to remain so during next 2 days and shift gradually northwards thereafter. The eastern end of monsoon trough runs to the north of its normal position.
- ◆ The off-shore trough runs along south Gujarat and Maharashtra coasts at mean sea level.
- ◆ **Under the influence of the above systems:**
  - o Fairly widespread/Widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over south Rajasthan, Gujarat Region & ghat areas of Madhya Maharashtra on 17th; Saurashtra & Kutch on 17th & 18th and over Konkan & Goa on 20th & 21st August, 2022. Isolated **very heavy rainfall** likely over southwest Rajasthan and Saurashtra & Kutch on 17th August, 2022.
  - o Under the influence of likely formation of **A Low Pressure Area** over North Bay of Bengal around 19th August; fairly widespread/Widespread light/moderate rainfall is likely over Gangetic West Bengal, Odisha, Jharkhand, Chhattisgarh, Madhya Pradesh and Vidarbha during 18th-21st August, 2022. Isolated **heavy to very heavy rainfall** likely over Odisha during 19th-21st August, 2022. Isolated **heavy rainfall** also likely over Chhattisgarh & Gangetic West Bengal during 19th-21st; Bihar & East Madhya Pradesh on 20th & 21st and West Madhya Pradesh and Vidarbha on 21st August, 2022.
  - o Fairly widespread/Widespread light/moderate rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Himachal Pradesh and East Uttar Pradesh during 19th-21st and Uttarakhand during 18th-21st and over West Uttar Pradesh on 20th & 21st August, 2022.
  - o **Strong surface winds** reaching 15-25 kmph gusting to 35 kmph likely to prevail over Rajasthan and Gujarat during next 24 hours.

**Main Weather Observations**

- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places** over East Rajasthan, Gujarat State and Konkan & Goa; **at many places** over Haryana, Chandigarh & Delhi, West Rajasthan, Saurashtra & Kutch, West Madhya Pradesh and Madhya Maharashtra; **at a few places** over Jammu & Kashmir, Odisha and Andaman & Nicobar Islands and **at isolated places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Himachal Pradesh, West Uttar Pradesh, East Madhya Pradesh, Marathwada, North Interior Karnataka, Chhattisgarh and Coastal Andhra Pradesh & Yanam.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (2 cm or more):** Daman-7; Bulsar and Deesa -5 each; Baroda, Ratlam, Dahanu, Ratanagiri and Mahabaleshwar -3 each; Bhaunagar, Mahuva, Udaipur, Khargone, Santacruz, Alibag and Portblair - 2 each
- ◆ **Heavy Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** at isolated places over Gujarat Region.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu Division, Himachal Pradesh, West Rajasthan, Gujarat State, Marathwada, Coastal Andhra Pradesh & Yanam, Odisha and Tripura.
- ◆ **Minimum Temperature Departures (as on 16-08-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over West Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan and Muzaffarabad and at isolated places over West Rajasthan, Saurashtra & Kutch, Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. They were **below normal (-1.6°C to -3.0°C)** at a few places over Himachal Pradesh and Madhya Pradesh and at isolated places over Rajasthan and Telangana and near normal over rest parts of the country. **Yesterday**, the lowest minimum temperature of 20.0°C was reported at **Mandla (East Madhya Pradesh) & Khargone (West Madhya Pradesh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 16-08-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Kerala & Mahe; at a few places over Rayalaseema and at isolated places over Gangetic West Bengal; **above normal (1.6°C to 3.0°C)** at most places over Coastal Karnataka; at many places over Assam & Meghalaya, West Bengal & Sikkim, Chhattisgarh, Telangana, South Interior Karnataka, Himachal Pradesh and Punjab; at a few places over Nagaland, Manipur, Mizoram & Tripura, Odisha and Tamil Nadu, Puducherry & Karaikal. They were **markedly below normal (-5.1°C to Less)** at a few places over East Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at many places over West Madhya Pradesh and at isolated places over Saurashtra & Kutch; **below normal (-1.6°C to -3.0°C)** at most places over Gujarat Region; at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and West Rajasthan; at a few places over Haryana, Chandigarh & Delhi and Konkan & Goa and at isolated places over West Uttar Pradesh and near normal over rest parts of the country. **Yesterday**, the **highest maximum temperature of 38.5°C** was reported at **K. Paramathy(Tamil Nadu, Puducherry & Karaikal)**.

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(Copies of the Bulletin @ 1870)



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

- ◆ The **well marked low pressure area** over central parts of Rajasthan now lies over southwest Rajasthan & neighbourhood. It is very likely to continue to move west-northwestwards and weaken gradually into a **low pressure area** during next 12 hours.
- ◆ The **monsoon trough** at mean sea level now passes through **well marked low pressure area** over southwest Rajasthan & neighbourhood, Jaipur, Gwalior, Varanasi, Gaya, Malda and thence eastwards to Manipur across Bangladesh and south Assam.
- ◆ The cyclonic circulation over Northeast Arabian Sea extending upto 3.1 km above mean sea level persists.
- ◆ The off-shore trough at mean sea level along south Gujarat and Maharashtra coasts persists.
- ◆ The north-south trough from Rayalaseema to Gulf of Mannar across Tamilnadu at 0.9 km above mean sea level persists.
- ◆ The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long.64°E to the north of Lat.34°N.
- ◆ A **Low Pressure Area** is likely to form over North Bay of Bengal around 19th August, 2022.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 22nd August 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 22nd August - 24th August, 2022

- ◆ A fresh Low Pressure Area is likely to form over North Bay of Bengal around 19th August, 2022 leading to enhanced rainfall activity over East and Central India during 20th & 21st August, 2022.
- ◆ Scattered/fairly widespread light/moderate rainfall activity likely over Northwest, West & South Peninsular India.

## Weather Warning during next 5 days \*

**17 Aug (Day 1):** ♦ **Heavy to very heavy rainfall** at isolated places likely over south-west Rajasthan and Saurashtra & Kutch and **heavy rainfall** at isolated places over east Rajasthan, Gujarat Region, Ghat Areas of Madhya Maharashtra and Tamilnadu, Puduchery & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over West Rajasthan, Jharkhand, West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andhra Pradesh and Kerala & Mahe.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northern parts of southwest Arabian Sea and adjoining west-central Arabian Sea; squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Goa, Maharashtra, south Gujarat coasts; Squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining northwest and southwest Arabian Sea, adjoining northern parts of east-central and northeast Arabian Sea, along and off Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

**18 Aug (Day 2):** ♦ **Heavy rainfall** at isolated places likely over Uttarakhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Tamilnadu, Puduchery & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over West Rajasthan, Bihar, West Bengal & Sikkim and Kerala & Mahe.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

**19 Aug (Day 3):** ♦ **Heavy to very heavy rainfall** at isolated places likely over Odisha; **heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

**20 Aug (Day 4):** ♦ **Heavy to very heavy rainfall** at isolated places likely over Odisha; **heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Konkan & Goa, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

**21 Aug (Day 5):** ♦ **Heavy to very heavy rainfall** at isolated places likely over East Madhya Pradesh, Chhattisgarh, Odisha and **heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Vidarbha, Konkan & Goa, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

**Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.**

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**Table-1**  
**5 Day Rainfall Forecast (MORNING)**  
**17-August-2022**

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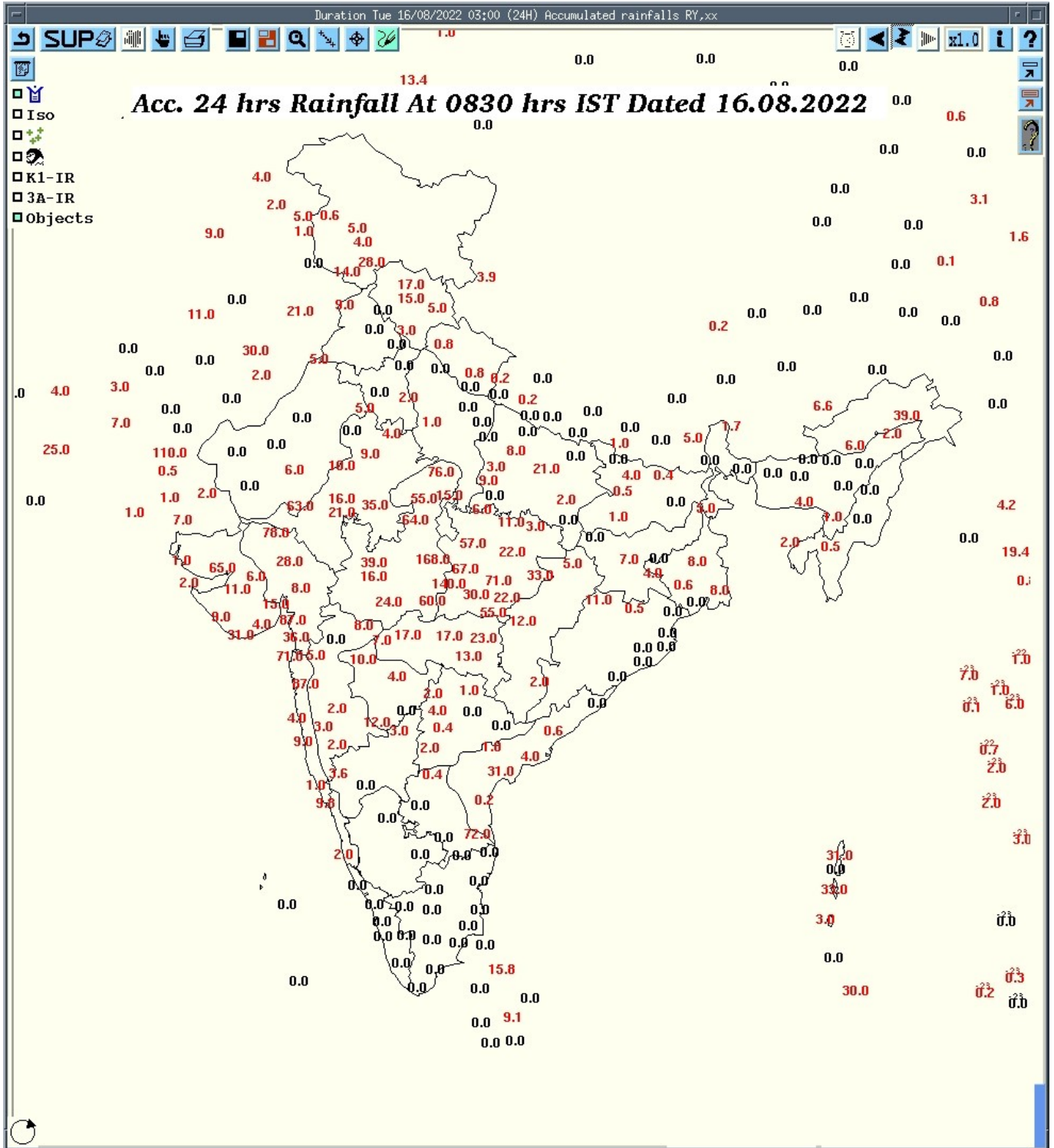
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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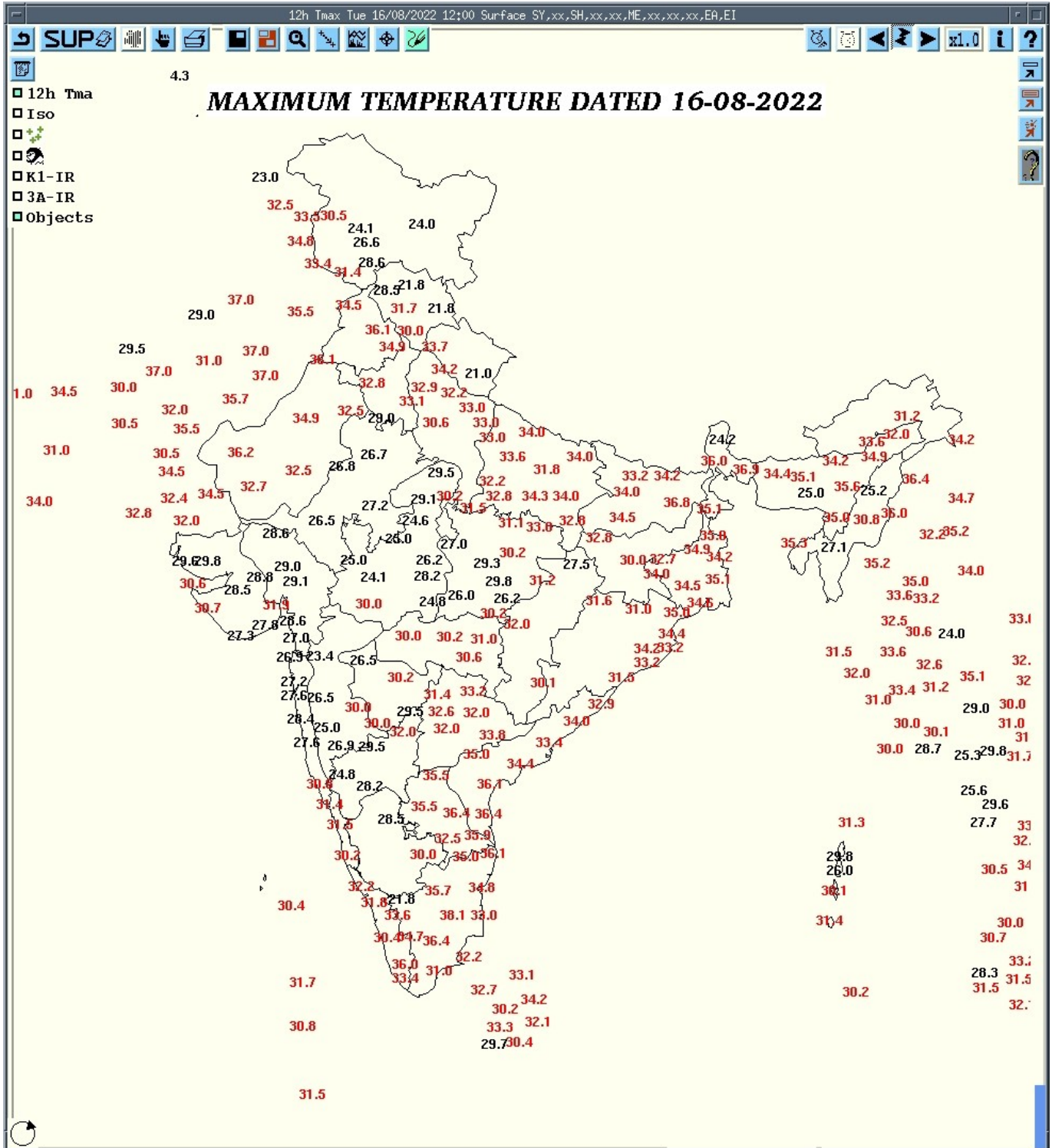
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(Created by the MetInfo team 10/2022)



Fig. 2: Maximum Temperature during past 24 hours



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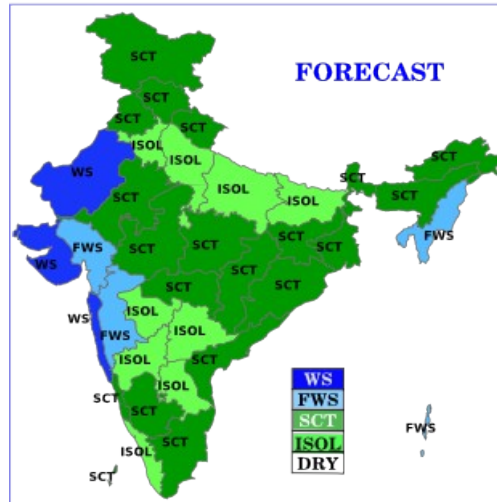
(Created by the MetInfo app 10/7/2022)







## Wednesday 17 August 2022



**17 Aug (Day 1):** ♦ **Heavy to very heavy rainfall** at isolated places likely over south-west Rajasthan and Saurashtra & Kutch and **heavy rainfall** at isolated places over east Rajasthan, Gujarat Region, Ghat Areas of Madhya Maharashtra and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over West Rajasthan, Jharkhand, West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andhra Pradesh and Kerala & Mahe.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northern parts of southwest Arabian Sea and adjoining west-central Arabian Sea; squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Goa, Maharashtra, south Gujarat coasts; Squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining northwest and southwest Arabian Sea, adjoining northern parts of east-central and northeast Arabian Sea, along and off Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

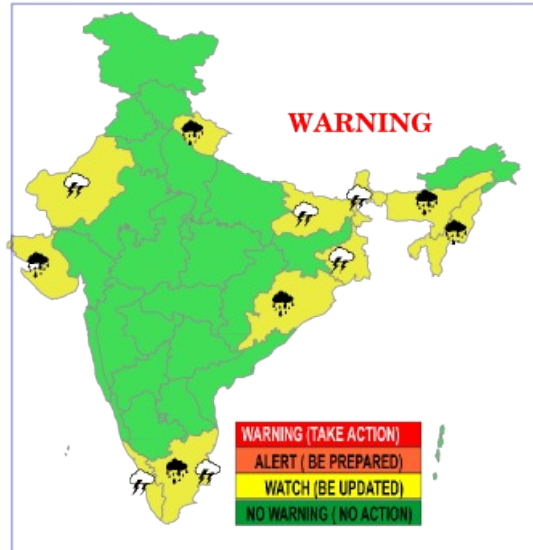
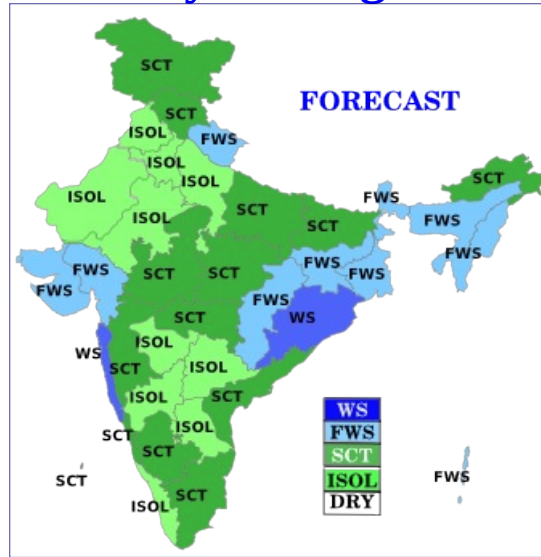
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## Thursday 18 August 2022



**18 Aug (Day 2):** ♦ **Heavy rainfall** at isolated places likely over Uttarakhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over West Rajasthan, Bihar, West Bengal & Sikkim and Kerala & Mahe.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

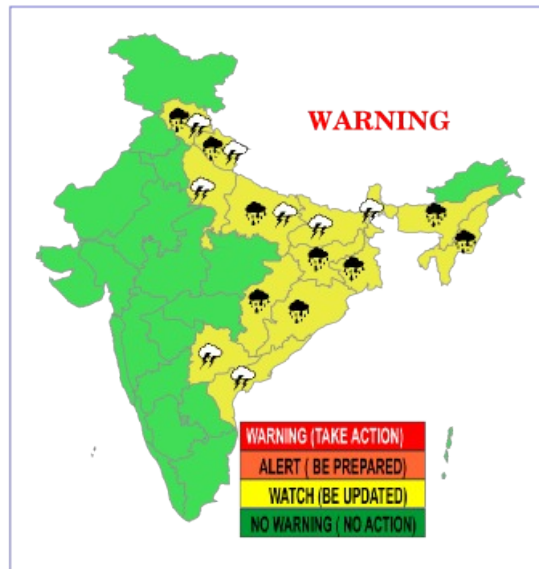
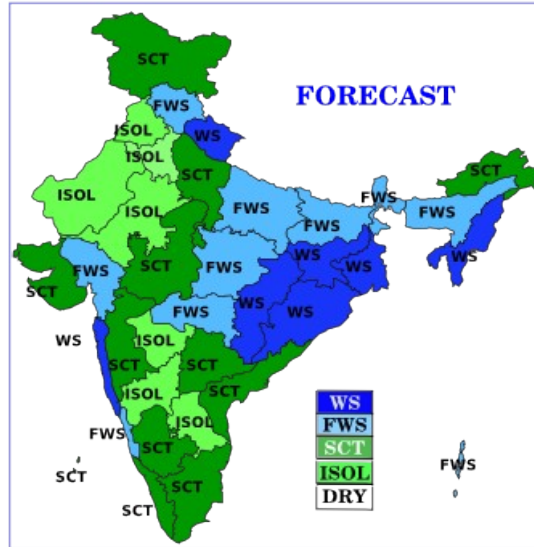
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## Friday 19 August 2022



**19 Aug (Day 3):** ♦ **Heavy to very heavy rainfall** at isolated places likely over Odisha; **heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

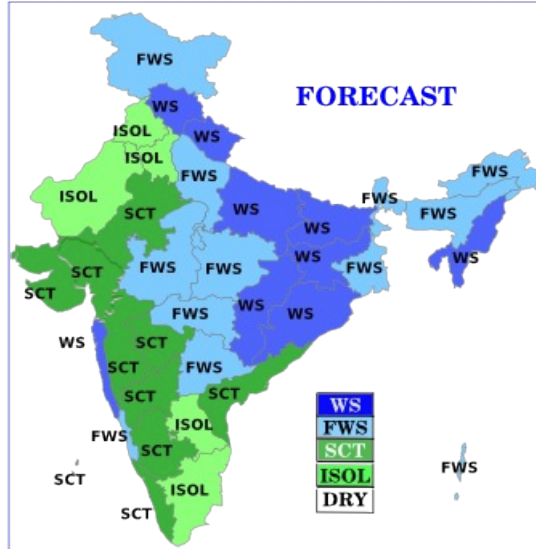
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## Saturday 20 August 2022



**20 Aug (Day 4):** ♦ **Heavy to very heavy rainfall** at isolated places likely over Odisha; **heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Konkan & Goa, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

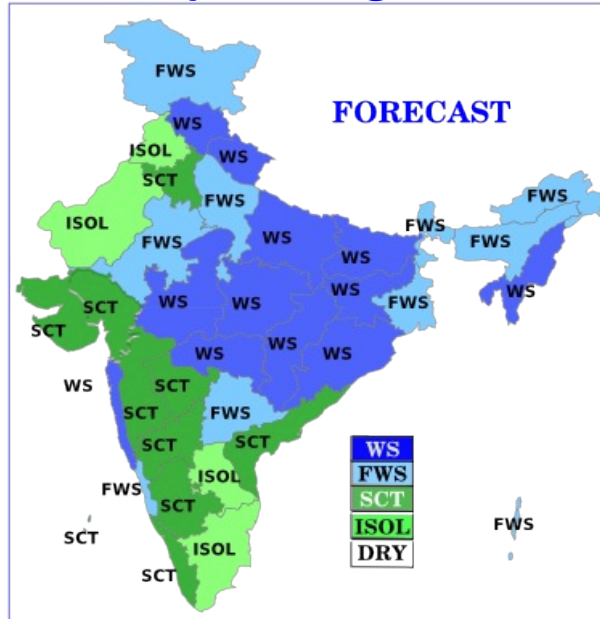
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## Sunday 21 August 2022



**21 Aug (Day 5):** ♦ **Heavy to very heavy rainfall** at isolated places likely over East Madhya Pradesh, Chhattisgarh, Odisha and **heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Vidarbha, Konkan & Goa, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; squally winds of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

## WARNING

<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 of the Manual are 1077)

## 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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(Created by the Meteorology Dept)