



Tuesday 16 August 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The **Depression** over East Madhya Pradesh moved west-northwestwards with a speed of 33 kmph during last 6 hours and lay centered at 0530 hours IST of 16th August over West Madhya Pradesh near latitude 24.6°N & longitude 77.3°E, close to Guna (Madhya Pradesh) and 160 km east-southeast of Kota (Rajasthan). It is very likely to continue to move west-northwestwards and weaken gradually to a **well marked low pressure area** during next 12 hours.
- ◆ The monsoon trough is likely to remain active during next 2 days. It runs to the south of its normal position. The western end of the Monsoon trough is likely to shift gradually northwards from 17th August, 2022. The eastern end is likely to shift gradually northwards during next 2 days.
- ◆ The off-shore trough runs along south Gujarat and Maharashtra coasts at mean sea level.
- ◆ **Under the influence of the above systems:**
 - (i) Fairly widespread/Widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Madhya Pradesh, Vidarbha, ghat areas of Madhya Maharashtra and Konkan & Goa on 16th; Rajasthan and Gujarat Region during 15th-17th and Saurashtra & Kutch on 16th & 17th August, 2022. **Isolated very heavy rainfall likely over Rajasthan, West Madhya Pradesh and Gujarat state on 16th August, 2022.**
 - (ii) A Low Pressure Area is likely to form over Northwest Bay of Bengal around 19th August, 2022. Under its influence; fairly widespread/Widespread light/moderate rainfall is likely over Gangetic West Bengal, Odisha, Jharkhand, Chhattisgarh and East Madhya Pradesh during 18th-20th August, 2022. **Isolated heavy to very heavy rainfall likely over Odisha during 18th-20th August, 2022.** Isolated **heavy rainfall** is likely over Gangetic West Bengal during 18th-20th; Jharkhand, Chhattisgarh and East Madhya Pradesh on 19th & 20th August, 2022.
 - (iii) Fairly widespread/Widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Himachal Pradesh on 18th and Uttarakhand during 18th-20th August, 2022.

Main Weather Observations

- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Karnataka; **at many places** over Uttarakhand, East Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, North Interior Karnataka; **at a few places** over West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Telangana and **at isolated places** over Punjab, West Rajasthan, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(3 cm or more):** Pachmarhi-6; Guna, Jabalpur, Gondia and Mandla-5 each; Bhopal, Mahabaleshwar and Daman-4 each; Batote, Badarwah, Hoshangabad, Surat, Port-Blair, Dharmshala, Matheran, Noncowry, Raisen, Betul, Damoh and Narshinghpur-3 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over West Rajasthan, East Rajasthan, Saurashtra & Kutch and East Madhya Pradesh.
- ◆ **Minimum Temperature Departures (as on 15-08-2022): Minimum temperatures** were **above normal (1.6°C to 3.0°C)** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at a few places over East Madhya Pradesh; at isolated places over East Rajasthan and Gangetic West Bengal and near normal over rest parts of the country. **Yesterday, the lowest minimum temperature of 20.6°C** was reported at **Mandla (East Madhya Pradesh) & Durg (Chhattisgarh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 15-08-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at most places over Coastal Karnataka and Kerala & Mahe; at many places over Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. They were **markedly below normal (-5.1°C to Less)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at a few places over Himachal Pradesh, Vidarbha; **appreciably below normal (3.1°C to 5.0°C)** at many places over East Madhya Pradesh, Chhattisgarh, Marathwada, Telangana; at a few places over West Madhya Pradesh, Gujarat Region; at isolated places over Odisha; **below normal (-1.6°C to -3.0°C)** at many places over Punjab, Jharkhand, North Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, Andaman & Nicobar Islands; at isolated places over Gangetic West Bengal, Saurashtra & Kutch and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 37.5°C** was reported at **Palam(Haryana, Chandigarh & Delhi).**

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Depression** over East Madhya Pradesh moved west-northwestwards with a speed of 33 kmph during last 6 hours and lay centered at 0530 hours IST of 16th August over West Madhya Pradesh near latitude 24.6°N & longitude 77.3°E, close to Guna (Madhya Pradesh) and 160 km east-southeast of Kota (Rajasthan). It is very likely to continue to move west-northwestwards and weaken gradually to a **well marked low pressure area** during next 12 hours.
- ◆ The **Low Pressure Area** over Northeast Arabian Sea & adjoining south Pakistan with the associated cyclonic circulation extending upto mid tropospheric levels persists.
- ◆ The monsoon trough at mean sea level now passes through Jaisalmer, Kota, centre of **depression** over West Madhya Pradesh, Pendra Road, Jharsuguda, Chandbali and thence east-southeastwards to Northeast Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The off-shore trough at mean sea level along south Gujarat and Maharashtra coasts persists.
- ◆ The north-south trough from North Interior Karnataka to Comorin area across South Interior Karnataka and Tamil Nadu at 1.5 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. 63°E to the north of Lat. 32°N.

Weather Forecast for next 5 days * upto 0830 hours IST of 21st 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 21st August - 23rd August, 2022

- ◆ A fresh Low Pressure Area is likely to form over Northwest 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 *

16 Aug (Day 1): ♦ **Heavy to very heavy rainfall** at isolated places likely over Rajasthan, West Madhya Pradesh and Gujarat State and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Madhya Maharashtra, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over northern parts of northeast Arabian Sea; **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Goa, Maharashtra and south Gujarat coasts. **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 east-central and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

17 Aug (Day 2): ♦ **Heavy rainfall** at isolated places likely over Punjab, West Rajasthan, Odisha, Gujarat State and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe..

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Maharashtra and south Gujarat coasts. **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 east-central and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

18 Aug (Day 3): ♦ **Heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Bihar, Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Comorin area, Gulf of Mannar. 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 northwest Arabian Sea, adjoining southwest Arabian Sea, northwestern parts of east-central Arabian Sea and adjoining northeast Arabian Sea. Fishermen are advised not to venture into these seas.

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

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Bihar and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Comorin area, Gulf of Mannar and south-southwest Bay of Bengal off Sri Lanka coast. **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 northwest Arabian Sea, adjoining southwest Arabian Sea, northwestern parts of east-central Arabian Sea and adjoining northeast Arabian Sea. Fishermen are advised not to venture into these seas.

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

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Bihar and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Comorin area, Gulf of Mannar and south-southwest Bay of Bengal off Sri Lanka coast. **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 northwest Arabian Sea, adjoining southwest Arabian Sea, northwestern parts of east-central Arabian Sea and adjoining 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)
16-August-2022

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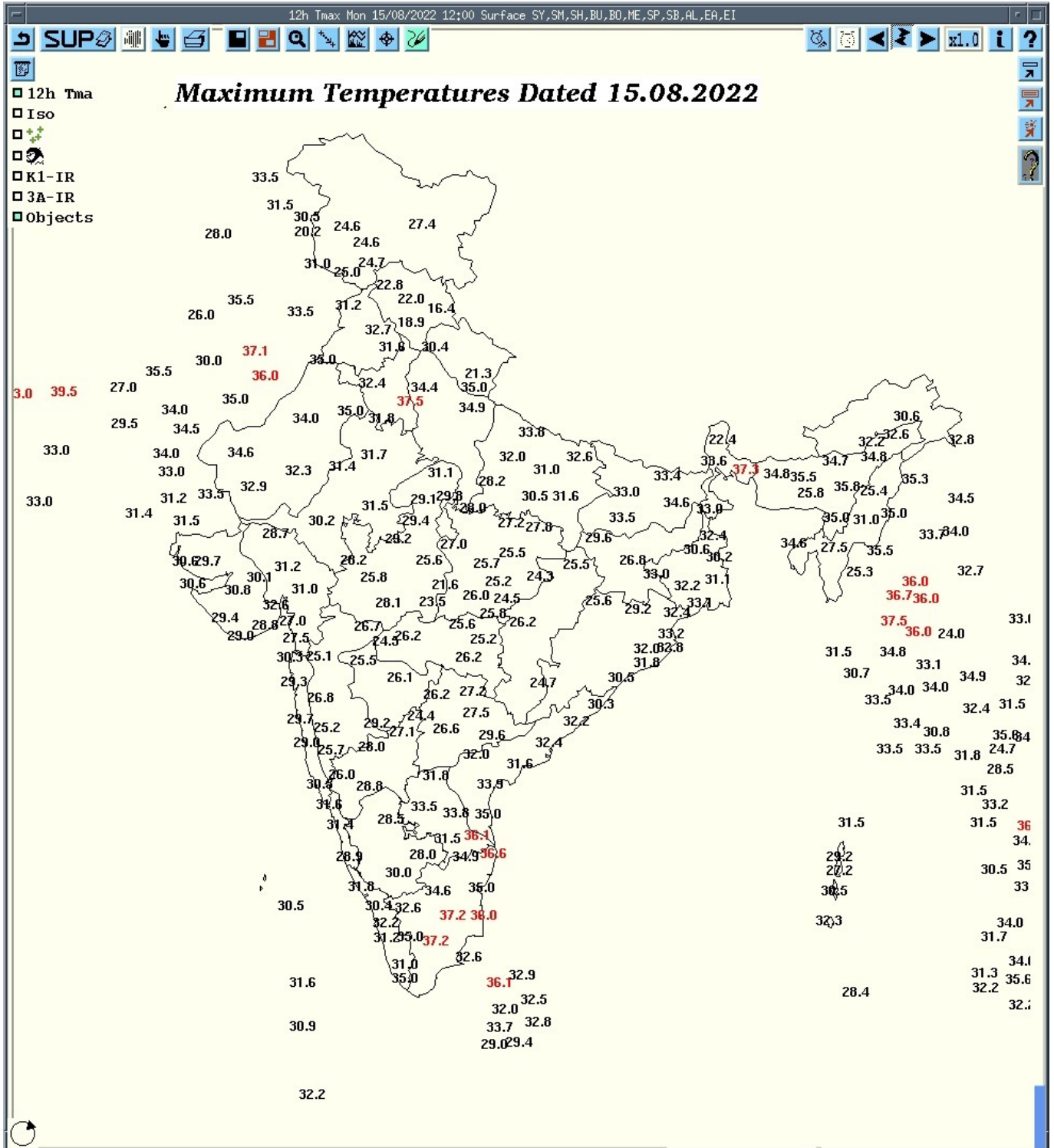
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Fig. 2: Maximum Temperature during past 24 hours



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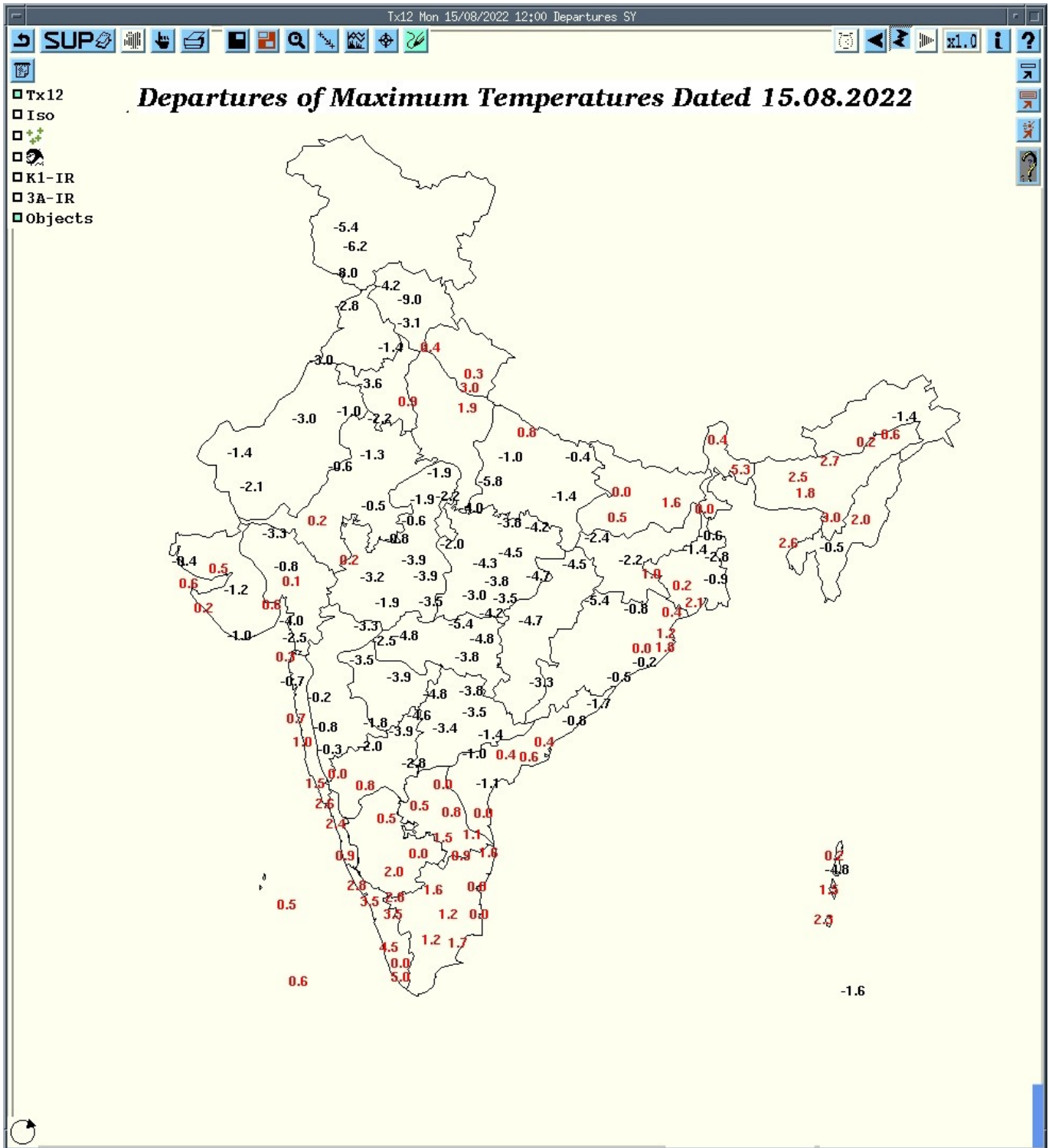
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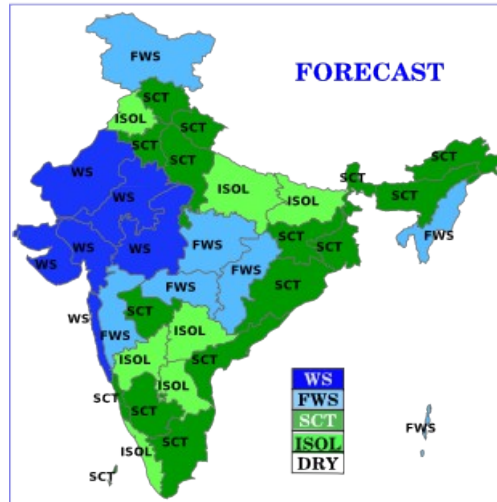


Fig. 4 : Departure from Normal of Maximum Temperatures



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Tuesday 16 August 2022



16 Aug (Day 1): ♦ **Heavy to very heavy rainfall** at isolated places likely over Rajasthan, West Madhya Pradesh and Gujarat State and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Madhya Maharashtra, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal.

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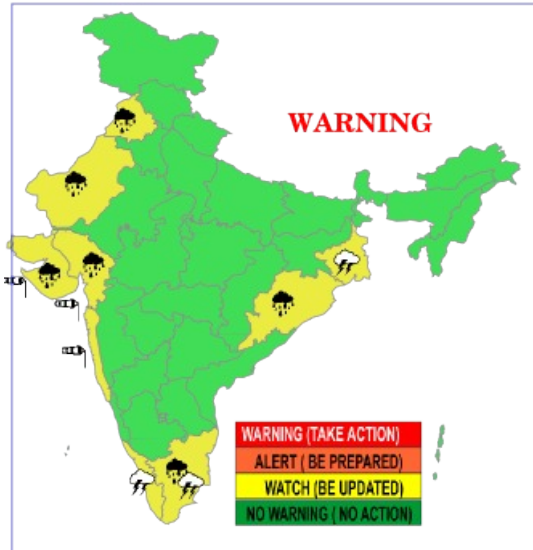
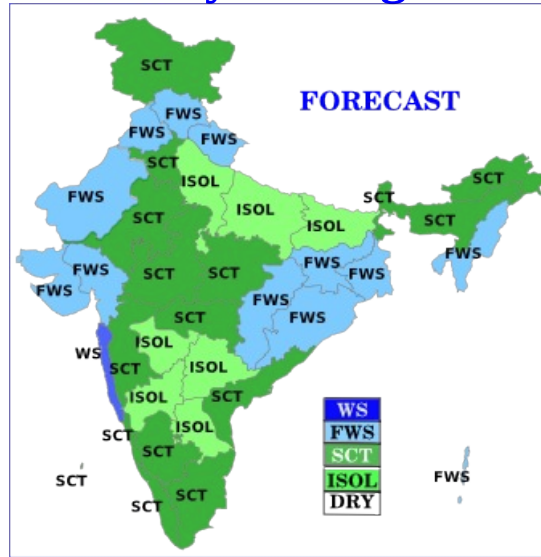
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Wednesday 17 August 2022



17 Aug (Day 2): ♦ **Heavy rainfall** at isolated places likely over Punjab, West Rajasthan, Odisha, Gujarat State and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe..

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Maharashtra and south Gujarat coasts. **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 east-central and northeast Arabian Sea. Fishermen are advised not to venture into these seas.

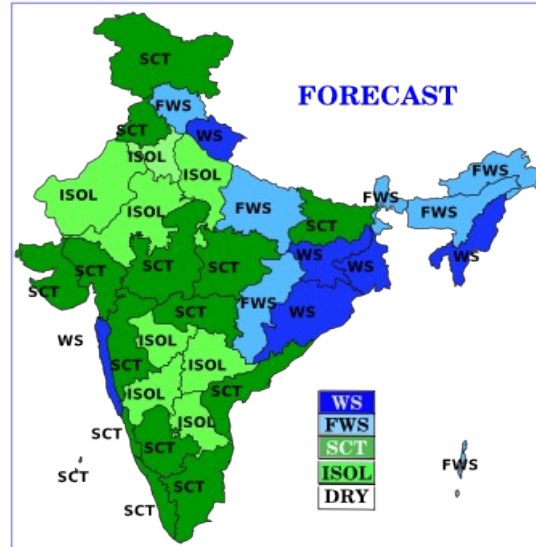
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Thursday 18 August 2022



18 Aug (Day 3): ♦ **Heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Bihar, Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Comorin area, Gulf of Mannar. 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 northwest Arabian Sea, adjoining southwest Arabian Sea, northwestern parts of east-central Arabian Sea and adjoining northeast Arabian Sea. Fishermen are advised not to venture into these seas.

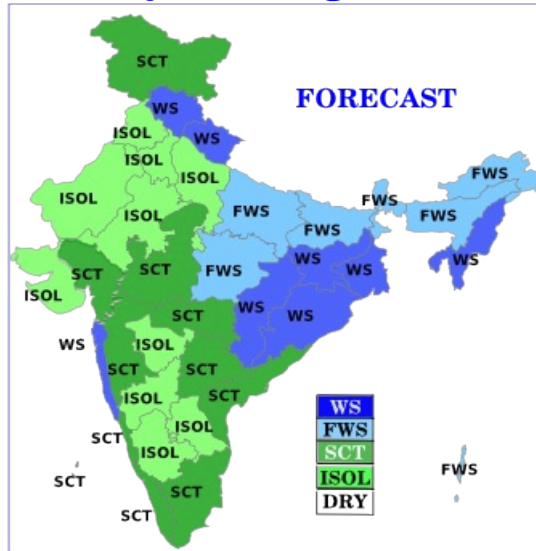
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Friday 19 August 2022



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

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Bihar and Kerala & Mahe.

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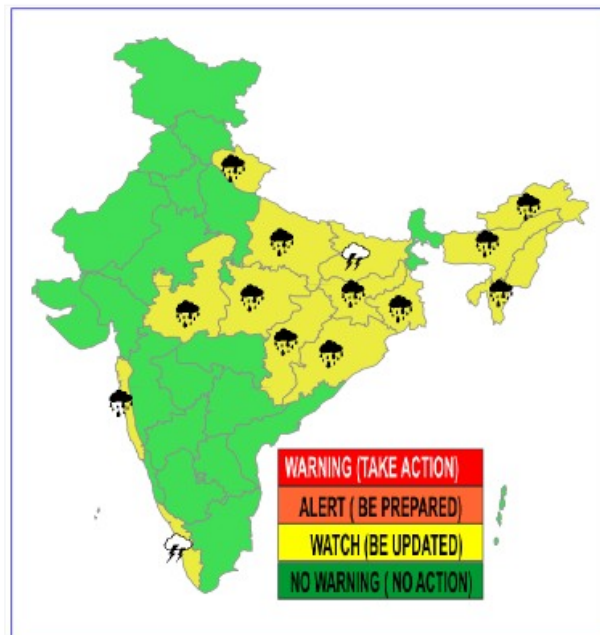
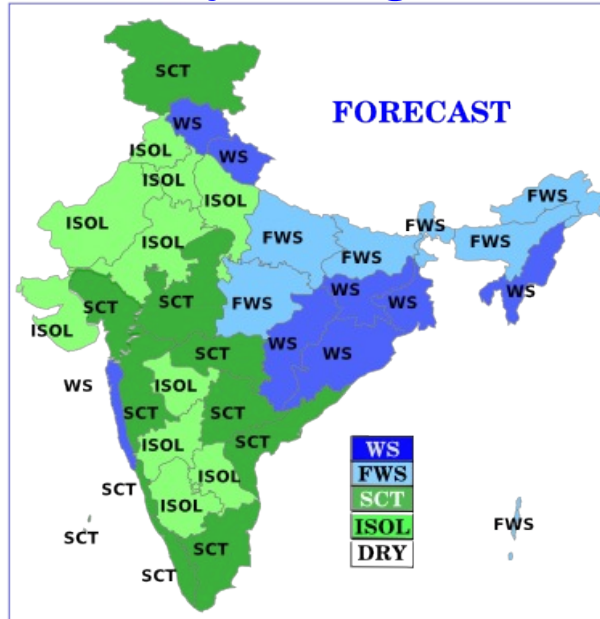
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Saturday 20 August 2022



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

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Bihar and Kerala & Mahe.

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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

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

For more details kindly visit 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°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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