



Saturday 08 October 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon:

⇒ The withdrawal line of Southwest Monsoon continues to pass through Long. 79.0°E/ Lat. 31.7° N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3° N.

Weather systems, rainfall/thunderstorm Forecast & Warnings:

⇒ A cyclonic circulation lies over northern parts of Madhya Maharashtra & neighbourhood in lower & middle tropospheric levels.

⇒ A trough runs from above cyclonic circulation over northern parts of Madhya Maharashtra & neighbourhood to Uttarakhand across Gujarat Region, East Rajasthan, south Haryana and West Uttar Pradesh in lower tropospheric levels.

⇒ Another cyclonic circulation lies over central parts of south Bay of Bengal in lower and middle tropospheric levels.

⇒ **Under the influence of above systems;**

o Fairly widespread/widespread light/moderate rainfall with isolated/scattered **heavy falls & thunderstorm/lightning** very likely over Uttarakhand and Uttar Pradesh during 08th–12th; Haryana and East Rajasthan on 08th & 09th; West Madhya Pradesh during 08th-10th & 12th and East Madhya Pradesh on 11th & 12th October, 2022. **Isolated very heavy rainfall very likely over Uttarakhand and West Uttar Pradesh on 08th & 09th October, 2022.**

o Scattered/Fairly widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Gujarat Region during 08th-10th; Madhya Maharashtra and Coastal Andhra Pradesh & Yanam on 08th & 09th; Marathwada on 09th; Rayalaseema and Tamil Nadu, Puducherry & Karaikal during 08th-12th; North Interior Karnataka, during 09th & 10th; South Interior Karnataka during 09th-11th and Kerala on 09th & 10th October, 2022.

o Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** very likely over Sub-Himalayan West Bengal & Sikkim on 08th & 09th; Odisha on 09th & 10th and Bihar on 11th & 12th October, 2022.

o Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh during 08th-12th; Assam & Meghalaya during 08th-11th and over Nagaland, Manipur, Mizoram & Tripura during 10th-11th October, 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 Chhattisgarh, West Uttar Pradesh and Andaman & Nicobar Islands; **at many places** over Vidarbha, Marathwada and Konkan & Goa; **at a few places** over Sub-Himalayan West Bengal & Sikkim, Odisha, East Uttar Pradesh, East Madhya Pradesh and Gujarat Region and **at isolated places** over Assam & Meghalaya, Gangetic West Bengal, West Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra and Bihar.

◆ **Heavy Rainfall Recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Nil.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(1 cm or more):** Matheran and Ratnagiri-4; Titlagarh, Mumbai(Santacruz) and Mayabandar-3; Jalgaon, Colaba and Long Islands-2; Baghdogra, Purulia, Bankura, Hirakud, Sambalpur, Gorakhpur, Gandhinagar and Carnicobar-1 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Himachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Uttar Pradesh, Bihar, Jharkhand, Odisha, Vidarbha, Chhattisgarh, West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa and Gujarat Region.

◆ **Minimum Temperature Departures (as on 07-10-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab; at a few places over East Madhya Pradesh and Bihar; at isolated places over Himachal Pradesh ; **above normal (1.6°C to 3.0°C)** at many places over Uttarakhand, Haryana, Chandigarh & Delhi; at a few places over West Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, at isolated places over , Odisha and Saurashtra & Kutch. They were **below normal (-1.6°C to -3.0°C)** at isolated places over Andaman & Nicobar Islands, Konkan & Goa and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the **lowest minimum temperature of 19.1°C** was reported at **Delhi-Ridge (Haryana, Chandigarh & Delhi)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 07-10-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Assam & Meghalaya and Gangetic West Bengal. They were **markedly below normal (-5.1°C or less)** at most places over Haryana, Chandigarh & Delhi; at many places over East Rajasthan and at a few places over West Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over East Uttar Pradesh, Gujarat Region, Marathwada and Konkan & Goa; at a few places over Vidarbha, Madhya Maharashtra and Arunachal Pradesh and at isolated places over Saurashtra & Kutch; **below normal (-1.6°C to -3.0°C)** at many places over Punjab; at a few places over West Rajasthan and East Madhya Pradesh and at isolated places over Odisha and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 38.2°C** was reported at **Jaisalmer (West Rajasthan)** over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The withdrawal line of **Southwest Monsoon** continues to pass through Long. 79.0°E/ Lat. 31.7° N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3° N.
- ◆ The **Western Disturbance** as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along 72°E to north of 24°N.
- ◆ The cyclonic circulation over northern parts of Madhya Maharashtra & neighbourhood extending upto 4.5 km above mean sea level persists.
- ◆ The trough from cyclonic circulation over northern parts of Madhya Maharashtra & neighbourhood to Uttarakhand across Gujarat Region, East Rajasthan, south Haryana & West Uttar Pradesh between 1.5 km & 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over central parts of south Bay of Bengal between 3.1 km & 5.8 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 13th October, 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 13th-15th October, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall likely over Uttar Pradesh, Central, East, Northeast & south peninsular India, Islands and along the West coasts.
- ◆ Isolated to scattered light rainfall activity likely over rest parts of the country except some parts of northwest India where dry weather is likely.

Weather Warning during next 5 days *

08 Oct (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Uttarakhand and West Uttar Pradesh and **heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region, north Konkan, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong Winds** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over Southwest Arabian Sea and **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) over Southwest Bay of Bengal, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

09 Oct (Day 2): ♦ Heavy to very heavy rainfall at isolated places very likely over Uttarakhand and West Uttar Pradesh and **heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

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10 Oct (Day 3): ♦ Heavy rainfall at isolated places very likely over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

11 Oct (Day 4): ♦ Heavy rainfall at isolated places likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

12 Oct (Day 5): ♦ Heavy rainfall at isolated places likely over Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Madhya Pradesh, Andaman & Nicobar Islands, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada, South Interior Karnataka, Kerala & Mahe, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

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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(Circle to the National Alert 1077)



Table-1
5 Day Rainfall Forecast (MORNING)
08-October-2022

Met-Sub-Division	08-Oct Today	09Oct Sun	10Oct Mon	11Oct Tue	12Oct Wed
1. Andaman & Nicobar Islands	FWS	FWS	FWS	FWS	WS
2. Arunachal Pradesh	FWS	WS	WS	WS	WS
3. Assam & Meghalaya	FWS	WS	WS	WS	WS
4. N. M. M. & T.	SCT	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	FWS	FWS	FWS	FWS	WS
6. Gangetic West Bengal	ISOL	SCT	SCT	FWS	SCT
7. Odisha	SCT	FWS	FWS	FWS	SCT
8. Jharkhand	ISOL	ISOL	SCT	FWS	SCT
9. Bihar	SCT	SCT	SCT	FWS	FWS
10. East Uttar Pradesh	FWS	FWS	FWS	WS	WS
11. West Uttar Pradesh	WS	WS	WS	WS	WS
12. Uttarakhand	WS	FWS	FWS	FWS	FWS
13. Haryana, Chd & Delhi	FWS	FWS	SCT	SCT	SCT
14. Punjab	ISOL	ISOL	ISOL	ISOL	ISOL
15. Himachal Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
16. J & K and Ladakh	DRY	DRY	ISOL	ISOL	ISOL
17. West Rajsthan	ISOL	ISOL	ISOL	ISOL	ISOL
18. East Rajasthan	FWS	FWS	SCT	SCT	SCT
19. West Madhya Pradesh	FWS	FWS	FWS	FWS	WS
20. East Madhya Pradesh	SCT	SCT	FWS	FWS	WS
21. Gujarat Region	FWS	SCT	SCT	ISOL	ISOL
22. Saurashtra & Kutch	SCT	ISOL	ISOL	DRY	DRY
23. Konkan & Goa	FWS	FWS	FWS	FWS	SCT
24. Madhya Maharashtra	FWS	FWS	FWS	FWS	SCT
25. Marathawada	FWS	FWS	SCT	SCT	FWS
26. Vidharbha	SCT	SCT	FWS	FWS	FWS
27. Chhattisgarh	SCT	SCT	SCT	SCT	FWS
28. Coastal A. P. & Yanam	FWS	FWS	FWS	FWS	FWS
29. Telangana	FWS	FWS	FWS	FWS	FWS
30. Rayalaseema	WS	FWS	FWS	FWS	WS
31. T.N.,Puducherry & Karaikal	FWS	FWS	FWS	SCT	FWS
32. Coastal Karnataka	SCT	FWS	FWS	FWS	SCT
33. North Interior Karnataka	SCT	FWS	FWS	FWS	SCT
34. South Interior Karnataka	FWS	FWS	FWS	FWS	FWS
35. Kerala & Mahe	SCT	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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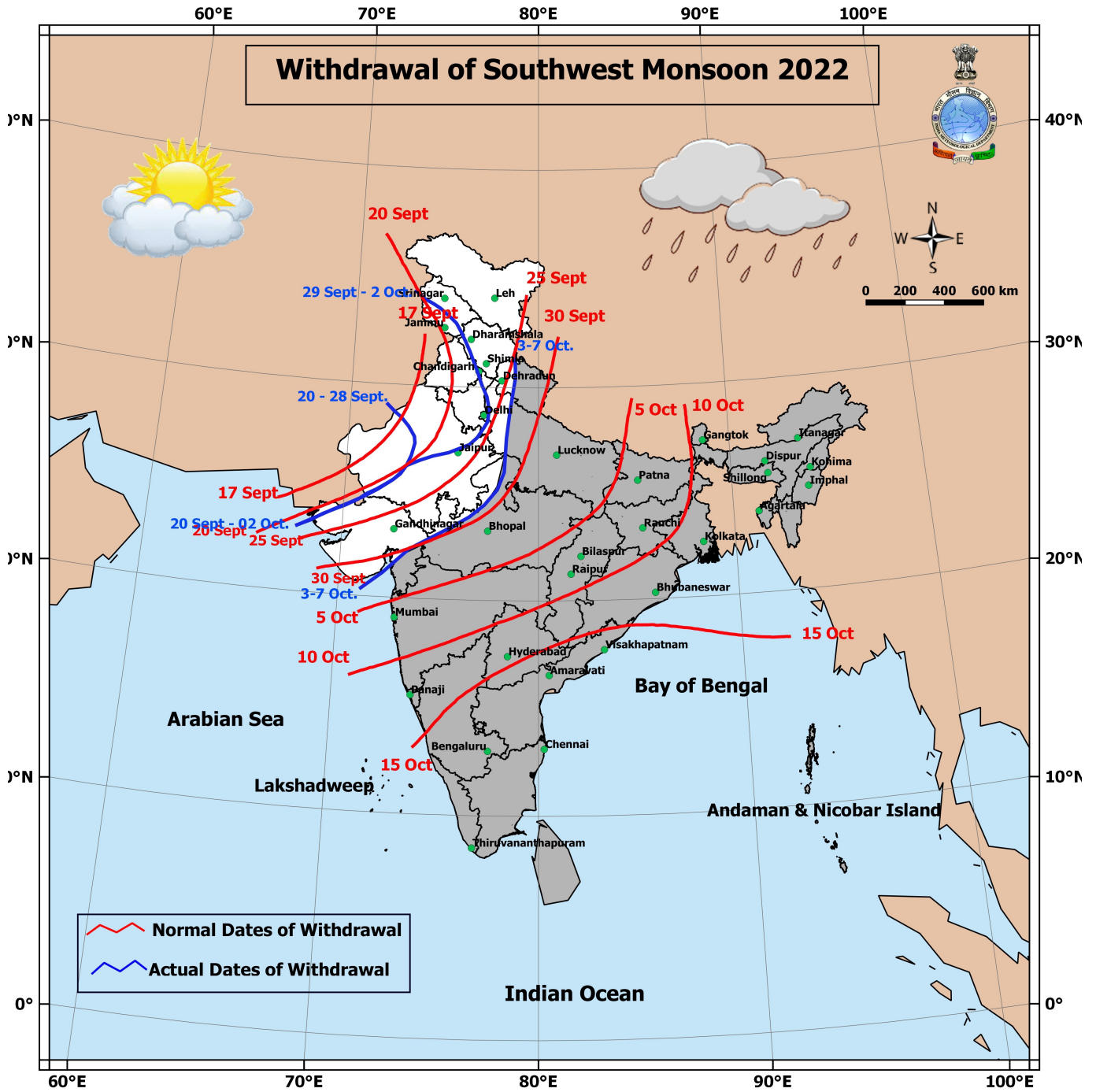
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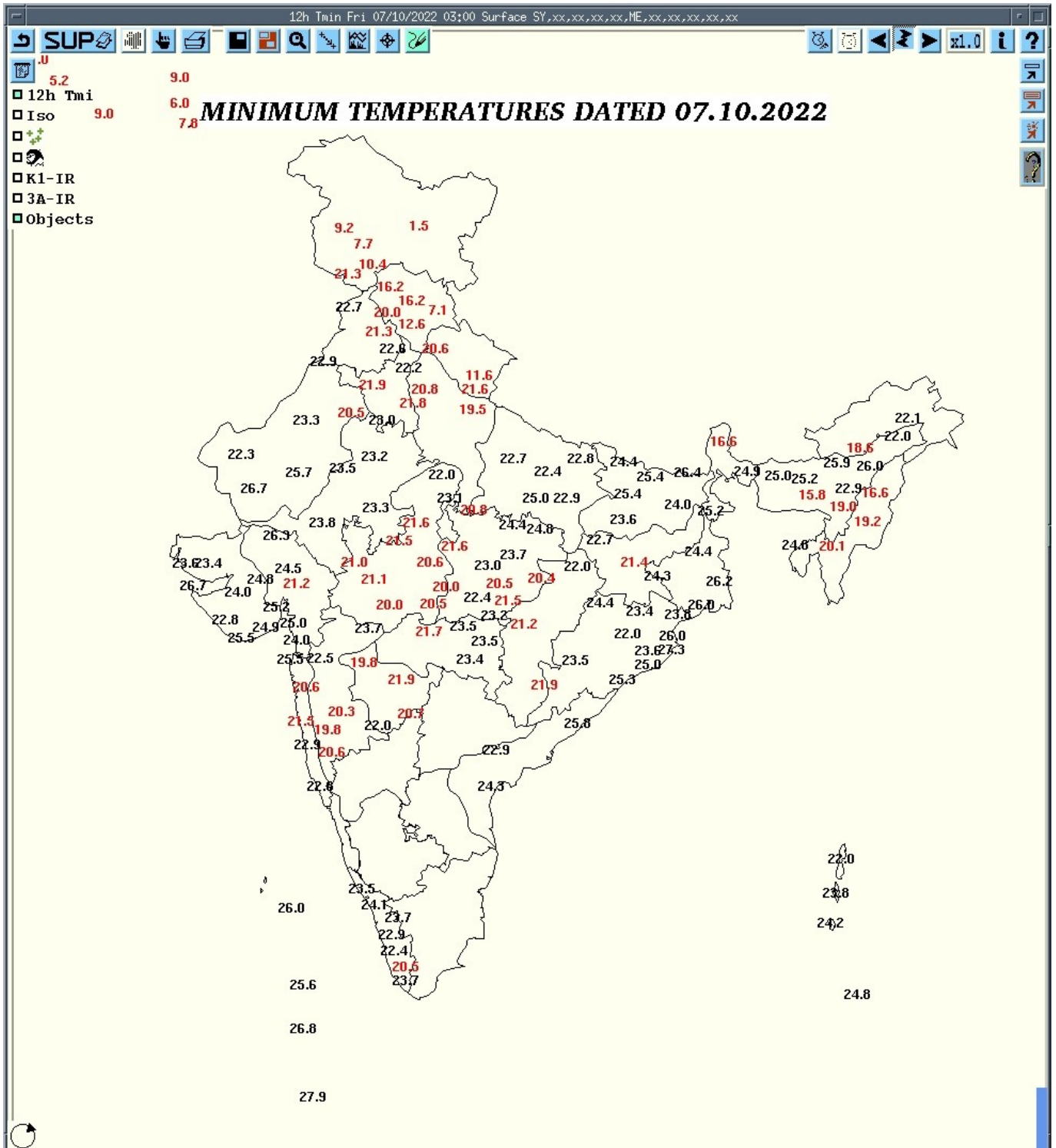
Fig.1 Withdrawal of Southwest Monsoon 2022



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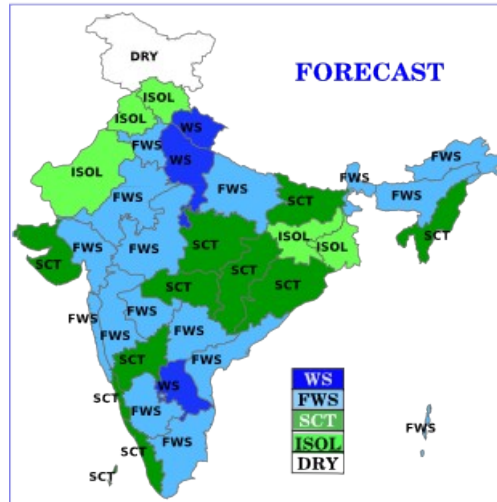


Fig. 4: Minimum Temperature during past 24 hours



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Saturday 08 October 2022



08 Oct (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Uttarakhand and West Uttar Pradesh and **heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region, north Konkan, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

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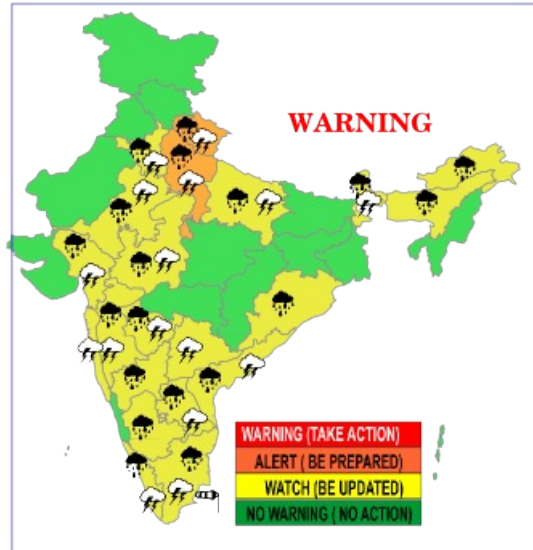
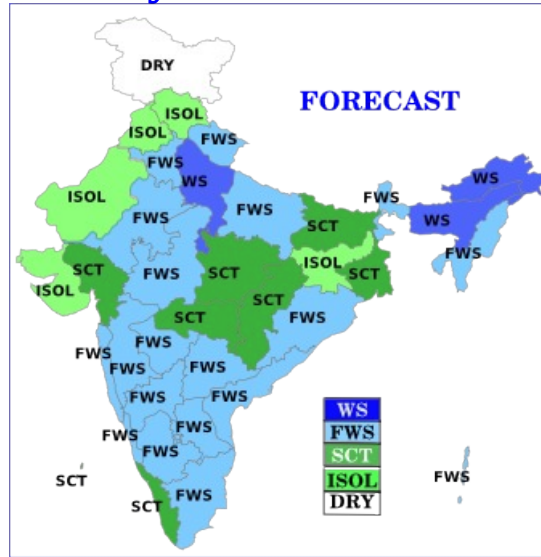
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(Copies to the Meteorologist (GPO))

Sunday 09 October 2022



09 Oct (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Uttarakhand and West Uttar Pradesh and **heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong Winds** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over Southwest Arabian Sea and **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) over Southwest Bay of Bengal, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

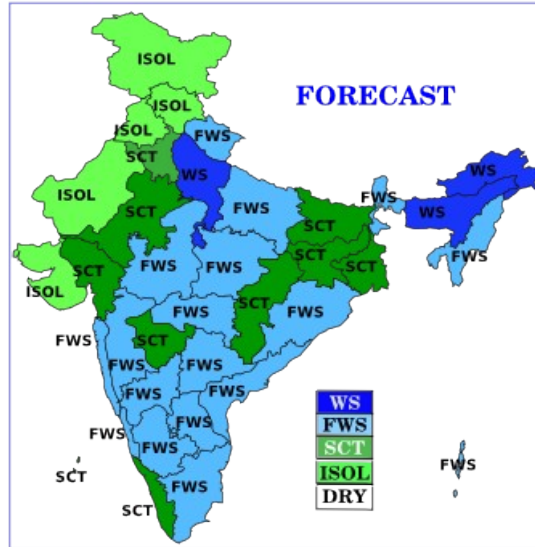
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Monday 10 October 2022



10 Oct (Day 3): ♦ Heavy rainfall at isolated places very likely over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

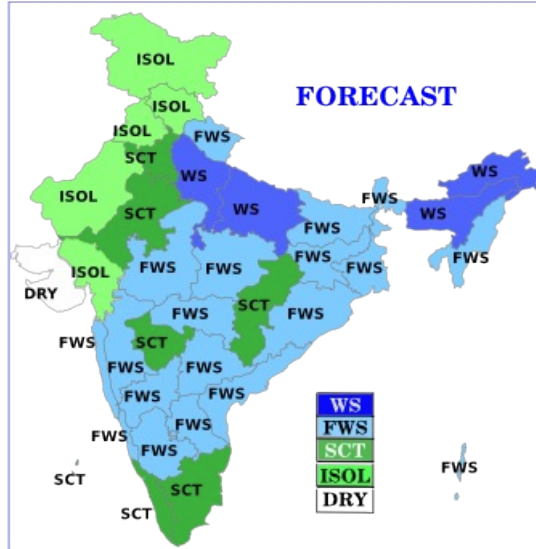
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Tuesday 11 October 2022



11 Oct (Day 4): ♦ Heavy rainfall at isolated places likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

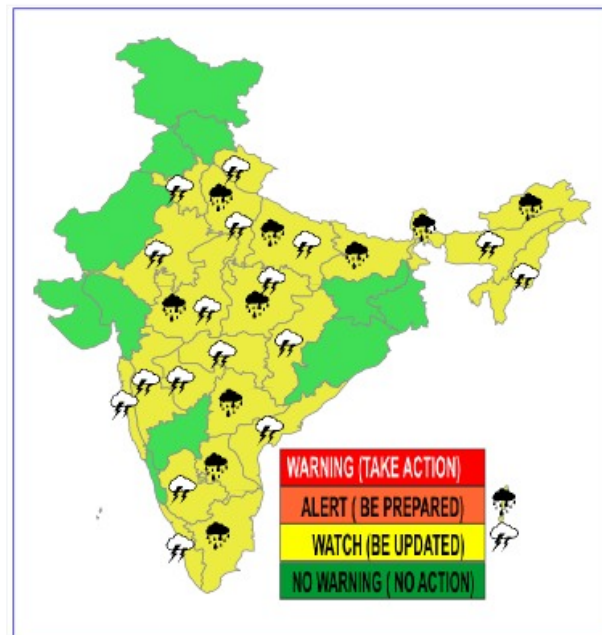
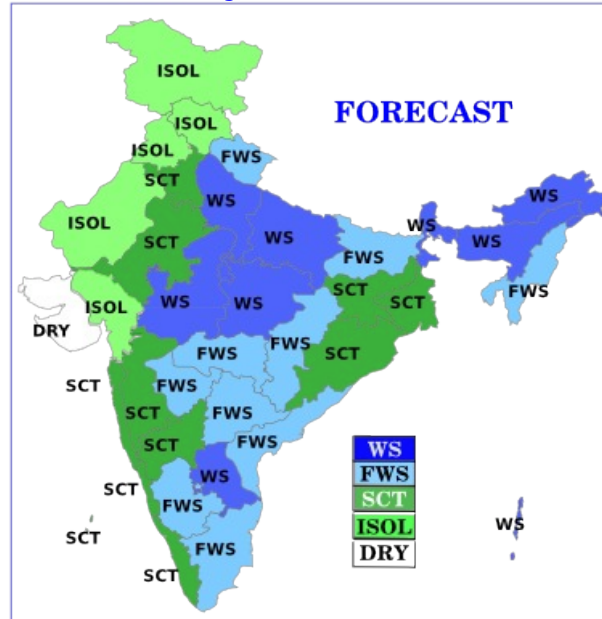
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Wednesday 12 October 2022



12 Oct (Day 5): ♦ Heavy rainfall at isolated places likely over Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Madhya Pradesh, Andaman & Nicobar Islands, Telangana, Rayalaseema, Tamil Nadu, Puduchery & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada, South Interior Karnataka, Kerala & Mahe, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

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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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