



Wednesday 14 September 2022

MORNING

Time of Issue: 0745 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The **Well Marked Low Pressure Area** lies over Northwest Madhya Pradesh & neighbourhood and the associated cyclonic circulation extends upto 7.6 km above mean sea level. It is likely to move nearly northwestwards slowly towards north Madhya Pradesh.
- ◆ The western end of the monsoon trough at mean sea level runs south of its normal position and its eastern end runs near its normal position.
- ◆ A trough runs from Northwest Arabian Sea to north Bangladesh and extends upto mid-tropospheric levels.
- ◆ An upper air cyclonic circulation is likely to form over North Bay of Bengal along & off north Odisha-west Bengal coasts around 18th September, 2022.
- ◆ **Under the influence of the above systems:**
 - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Jharkhand on 18th; Gangetic West Bengal & Odisha on 14th; Bihar on 14th & 18th; Sub- Himalayan West Bengal & Sikkim on 15th & 16th; Saurashtra & Kutch on 14th & 15th; West Madhya Pradesh & Gujarat Region during 14th-16th and over East Madhya Pradesh, ghat areas of Madhya Maharashtra and Konkan & Goa during next 5 days. Isolated **very heavy rainfall** also likely over West Madhya Pradesh, ghat areas of Madhya Maharashtra & Gujarat Region on 14th & 15th and over Konkan & Goa during 14th-16th September, 2022. Isolated **extremely heavy rainfall** also likely over ghat areas of Madhya Maharashtra on 15th September, 2022.
 - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Haryana & Uttar Pradesh during 14th-17th; West Rajasthan on 16th & 17th; Punjab on 17th; Himachal Pradesh during 15th-17th; Uttarakhand & East Rajasthan during next 5 days. Isolated **very heavy rainfall** also likely over East Rajasthan on 14th & 15th; Uttar Pradesh during 15th-18th and over Uttarakhand during 14th-18th September, 2022. Isolated **extremely heavy rainfall** also likely over Uttarakhand on 17th September, 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 West Bengal & Sikkim, Chhattisgarh, Jharkhand, East Madhya Pradesh, Konkan & Goa and Coastal Karnataka; at many places over East Uttar Pradesh, West Madhya Pradesh, Vidarbha and Marathwada; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Kerala & Mahe and Lakshadweep and at isolated places over Andaman & Nicobar Islands, Himachal Pradesh, Uttarakhand, Rajasthan, West Uttar Pradesh, Odisha, Bihar, Gujarat Region, Madhya Maharashtra, Interior Karnataka, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (3 cm or more):** Diu-7; Dwarka-6; Pachmarhi, Raisen & Sagar-5 each; Narsinghpur, Chhindwara & Baghdogra-4 each; Bhopal, Mandla, Mahabaleshwar, Nahan, Gangtok, Canning & Paradip-3 each.

◆ **Heavy Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall occurred at isolated places over Saurashtra & Kutch.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Gujarat State, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yaman and North Interior Karnataka.

◆ **Minimum Temperature Departures (as on 13-09-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over West Rajasthan; at a few places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha and Madhya Maharashtra. They were below normal (-1.6°C to -3.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 20.4°C is reported at Pachmarhi(East Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 13-09-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Arunachal Pradesh and West Uttar Pradesh; above normal (1.6°C to 3.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Himachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. They were markedly below normal (-5.1°C or less) at isolated places over West Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over East Madhya Pradesh and Vidarbha; at a few places over West Bengal & Sikkim and Saurashtra & Kutch; below normal (-1.6°C to -3.0°C) at most places over North Interior Karnataka; at many places over East Uttar Pradesh, Bihar and Madhya Maharashtra; at a few places over Chhattisgarh, Odisha, Marathwada, Telangana and South Interior Karnataka; at isolated places over Assam & Meghalaya, East Rajasthan, Gujarat Region and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.9°C is reported at Jaisalmer (West Rajasthan) over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Well Marked Low Pressure Area** over central parts of Madhya Pradesh now lies over Northwest Madhya Pradesh & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level.
- ◆ The monsoon trough at mean sea level now passes through Jaisalmer, Kota, centre of **Well Marked Low Pressure Area** over Northwest Madhya Pradesh & neighbourhood, Satna, Churk, Ranchi, Digha and thence east-southeastwards to Northeast Bay of Bengal.
- ◆ The trough from Northwest Arabian Sea to north Bangladesh now runs across Gujarat, the cyclonic circulation associated with the Well Marked Low Pressure Area over Northwest Madhya Pradesh & neighbourhood, north Chhattisgarh, Jharkhand & Gangetic West Bengal between 0.9 & 4.5 km above mean sea level.
- ◆ The Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood between 3.1 km & 5.8 km above mean sea level persists.
- ◆ The off-shore trough at mean sea level along Maharashtra-Goa coasts persists.
- ◆ An upper air cyclonic circulation is likely to form over North Bay of Bengal along & off north Odisha-west Bengal coasts around 18th September, 2022.

Weather Forecast for next 5 days * upto 0830 hours IST of 19th September, 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 19th September-21st September, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over West Coast, Central & East India.
- ◆ Isolated to scattered light/moderate rainfall activity likely over rest parts of the country except over West Rajasthan where dry weather is likely.
- ◆ An upper air cyclonic circulation likely to form over North Bay of Bengal off north Odisha-West Bengal coasts around 18th September, 2022. Under its influence, rainfall activity likely to increase over East India & central India.

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Weather Warning during next 5 days *

14 Sept (Day 1): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Uttarakhand, East Rajasthan, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Haryana, Uttar Pradesh, East Madhya Pradesh, Bihar, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off South Gujarat, Maharashtra coast, adjoining east-central Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, northeastern parts of east-central Arabian Sea adjoining southern parts of northeast Arabian Sea off south Gujarat coast, Gulf of Mannar. Fishermen are advised not to venture into these seas.

15 Sept (Day 2): ♦ **Heavy to Very Heavy rainfall** with extremely heavy falls at isolated places very likely over Madhya Maharashtra; **Heavy to very heavy rainfall** at isolated places over Madhya Maharashtra and **heavy rainfall** at isolated places over Himachal Pradesh, Haryana, East Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Saurashtra & Kutch.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, and Odisha.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off South Gujarat, Maharashtra coast, adjoining the east-central Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, northeastern parts of east-central Arabian Sea and adjoining southern parts of northeast Arabian Sea off south Gujarat coast, Gulf of Mannar. Fishermen are advised not to venture into these seas.

16 Sept (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places likely over Uttarakhand, Uttar Pradesh, Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Himachal Pradesh, Haryana, Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, northeastern parts of east-central Arabian Sea and adjoining southern parts of northeast Arabian Sea, Gulf of Mannar. Fishermen are advised not to venture into these seas.

17 Sept (Day 4): ♦ **Heavy to Very Heavy rainfall at a few places with extremely heavy falls** at isolated places likely over Uttarakhand; **Heavy to very heavy rainfall** at isolated places over Uttar Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, West Rajasthan, East Rajasthan, East Madhya Pradesh, Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

18 Sept (Day 5): ♦ **Heavy to Very Heavy rainfall** at isolated places likely over Uttarakhand; **heavy rainfall** at isolated places over Uttar Pradesh East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Gangetic West Bengal, Odisha, Bihar and Jharkhand.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar and Jharkhand.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. 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)
14-September-2022

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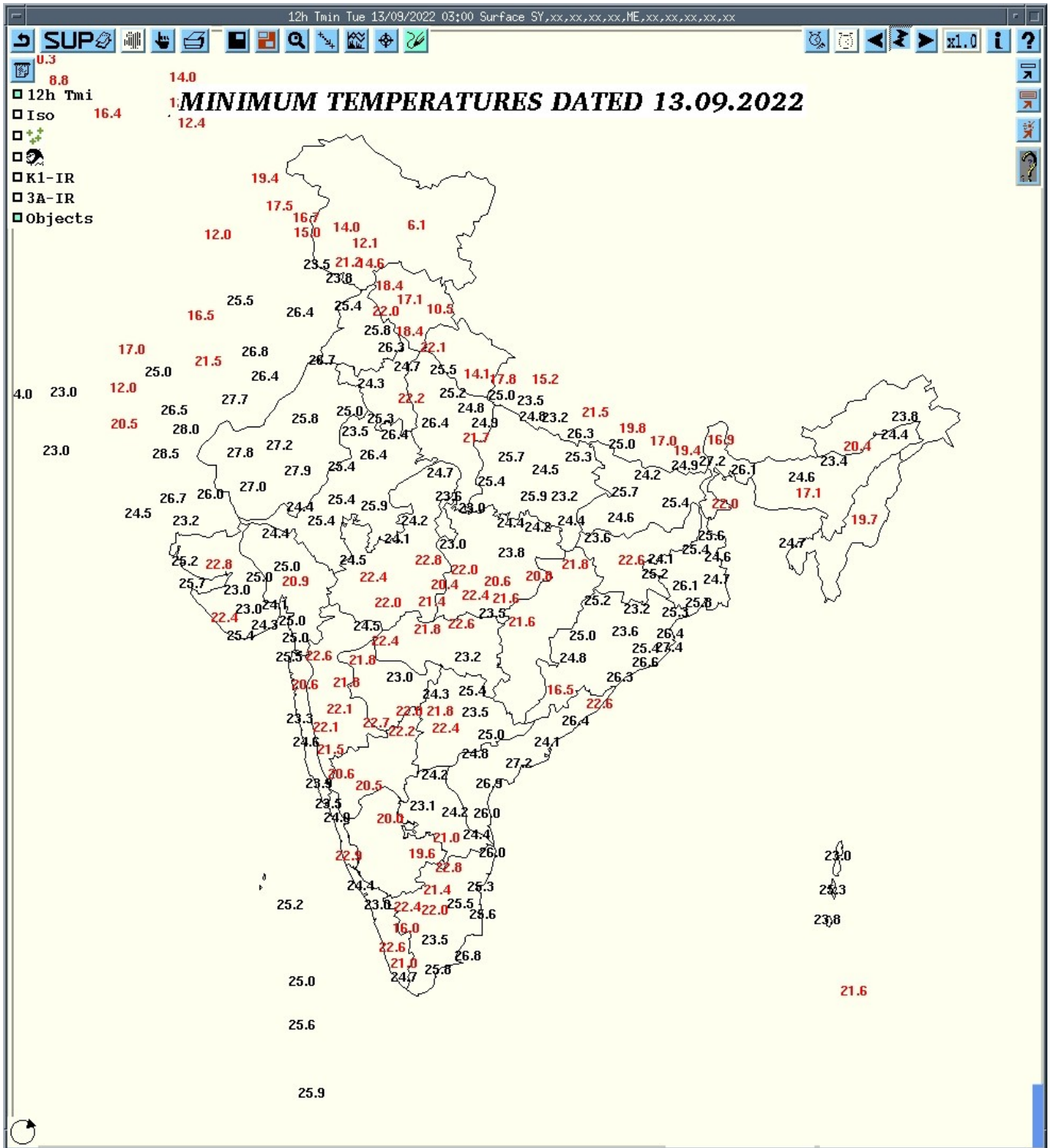
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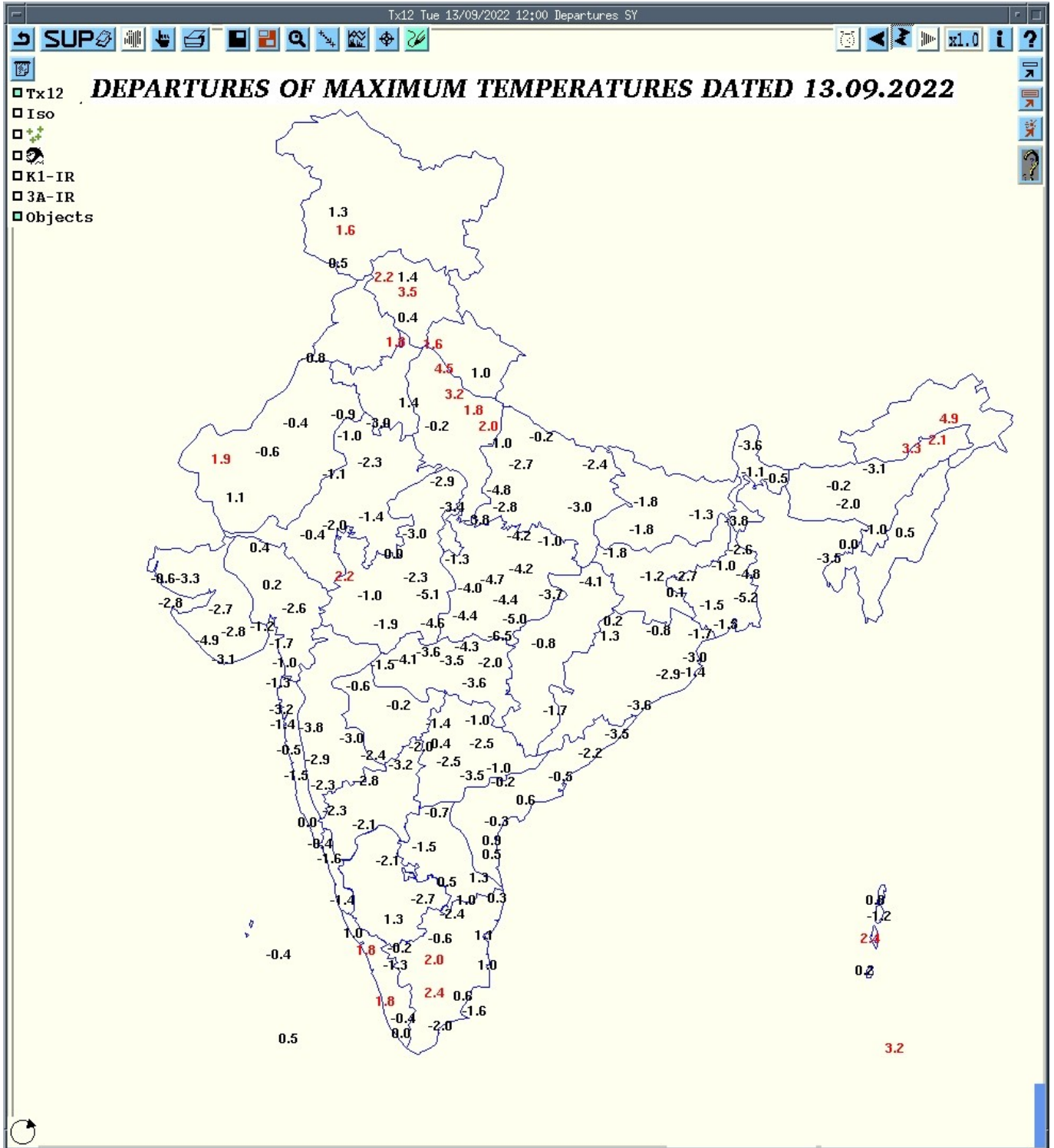
Fig. 3: Minimum Temperature during past 24 hours



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Fig. 4 : Departure from Normal of Maximum Temperatures



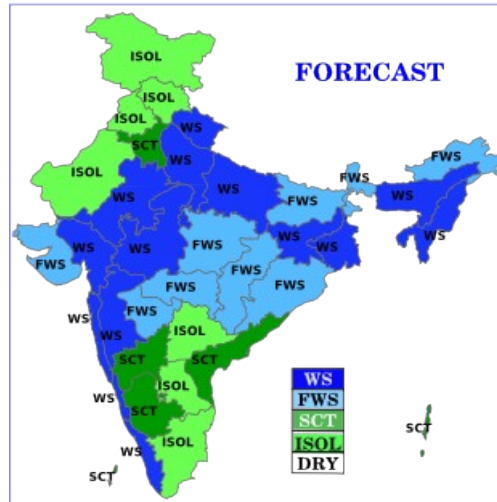
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(Created by the Meteosys (1977))

Wednesday 14 September 2022



14 Sept (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Uttarakhand, East Rajasthan, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Haryana, Uttar Pradesh, East Madhya Pradesh, Bihar, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off South Gujarat, Maharashtra coast, adjoining east-central Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, northeastern parts of east-central Arabian Sea adjoining southern parts of northeast Arabian Sea off south Gujarat coast, Gulf of Mannar. Fishermen are advised not to venture into these seas.

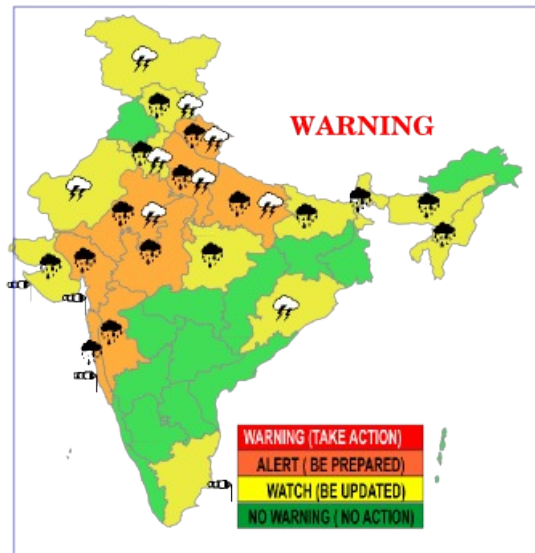
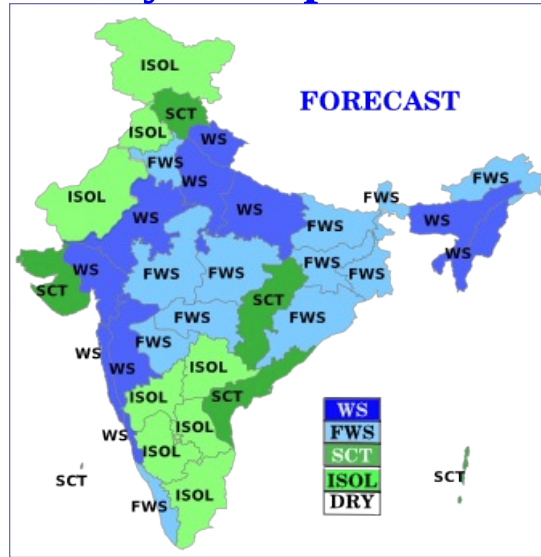
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Thursday 15 September 2022



15 Sept (Day 2): ♦ Heavy to Very Heavy rainfall with extremely heavy falls at isolated places very likely over Madhya Maharashtra; **Heavy to very heavy rainfall** at isolated places over Madhya Maharashtra and **heavy rainfall** at isolated places over Himachal Pradesh, Haryana, East Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Saurashtra & Kutch.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, and Odisha.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off South Gujarat, Maharashtra coast, adjoining the east-central Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, northeastern parts of east-central Arabian Sea and adjoining southern parts of northeast Arabian Sea off south Gujarat coast, Gulf of Mannar. Fishermen are advised not to venture into these seas.

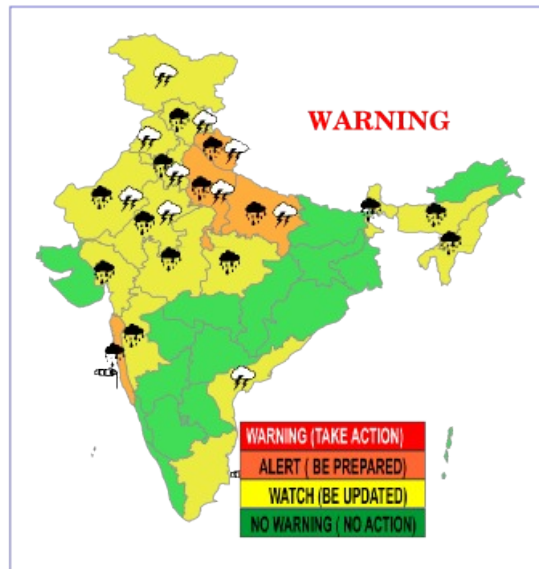
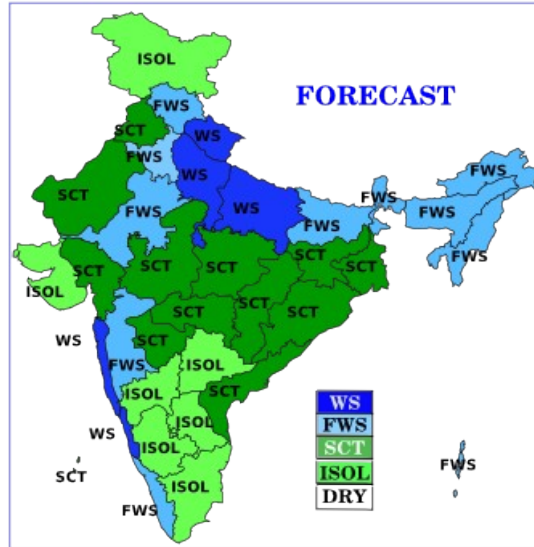
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Friday 16 September 2022



16 Sept (Day 3): ♦ Heavy to very heavy rainfall at isolated places likely over Uttarakhand, Uttar Pradesh, Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Himachal Pradesh, Haryana, Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, northeastern parts of east-central Arabian Sea and adjoining southern parts of northeast Arabian Sea, Gulf of Mannar. Fishermen are advised not to venture into these seas.

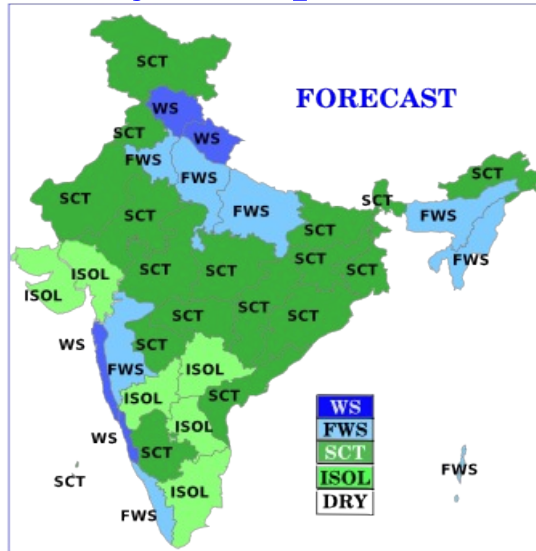
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Saturday 17 September 2022



17 Sept (Day 4): ♦ **Heavy to Very Heavy rainfall at a few places with extremely heavy falls** at isolated places likely over Uttarakhand; **Heavy to very heavy rainfall** at isolated places over Uttar Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, West Rajasthan, East Rajasthan, East Madhya Pradesh, Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

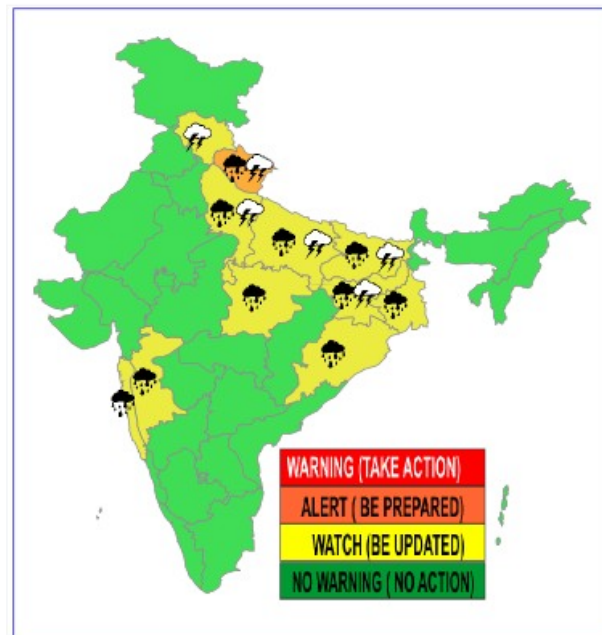
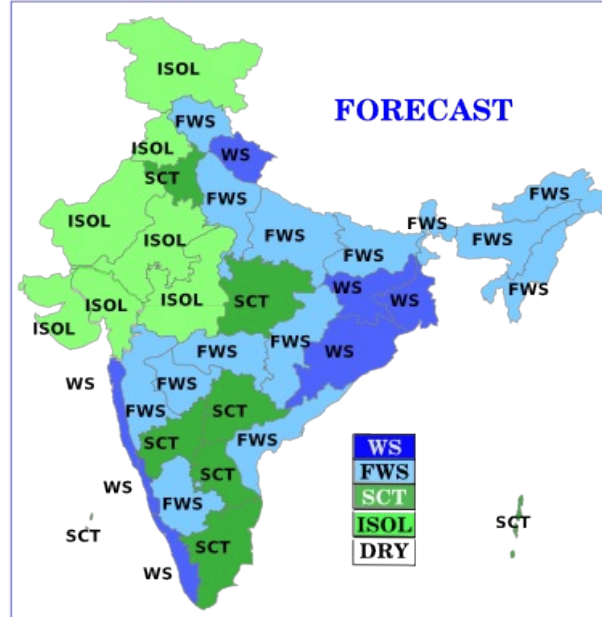
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Sunday 18 September 2022



18 Sept (Day 5): ♦ **Heavy to Very Heavy rainfall** at isolated places likely over Uttarakhand; **heavy rainfall** at isolated places over Uttar Pradesh East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Gangetic West Bengal, Odisha, Bihar and Jharkhand.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar and Jharkhand.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. 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

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 1000)

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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