



Saturday 17 September 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The **Well Marked Low Pressure Area** over central parts of Uttar Pradesh & neighbourhood now seen as a **Low Pressure Area** over the same region and the associated cyclonic circulation extends upto 4.5 km above mean sea level.
- ◆ An upper air cyclonic circulation is likely to form over Northwest & adjoining Westcentral Bay of Bengal around 18th September, 2022. Under its influence, a Low Pressure Area is likely to form over the same region during subsequent 48 hours.
- ◆ Under their influence:
  - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Uttarakhand & East Uttar Pradesh on 17th September, 2022.
  - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over ghat areas of Madhya Maharashtra and Konkan & Goa on 17th; Chhattisgarh on 19th & 20th; East Madhya Pradesh & Vidarbha on 20th & 21st and over Odisha during 18th-21st September, 2022. Isolated **very heavy rainfall** also likely over Odisha on 20th & 21st September, 2022.
  - o **Subdued** rainfall activity likely over South Peninsular & Northeast India during next 5 days.

Main Weather Observations

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◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Coastal Karnataka; at many places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa; at a few places over Madhya Pradesh, Vidarbha, Bihar, Gangetic West Bengal, Andaman & Nicobar Islands, Gujarat Region, North Interior Karnataka and at isolated places over East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Odisha, Saurashtra & Kutch, Telangana and Tamil Nadu, Puducherry & Karaikal.

◆ **Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall observed at isolated places over Konkan & Goa.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (3 cm or more): Konkan & Goa:** Matheran-7, Dahanu, Thane-5 each and Bombay (Colaba) & Bombay (SCZ)-2 each; **Gujarat Region:** Daman-6 and Bulsar-3; **Andaman & Nicobar Islands:** Long Islands-4; **West Madhya Pradesh:** Indore-4, Betul & Pachmarhi-1 each; **Madhya Maharashtra:** Pune-3, Nasik City & Mahabaleshwar-2 each and Ahmednagar-1; **Uttar Pradesh:** Kheri-4, Basti, Balia-3 each, Naziabad, Meerut & Bahraich-2 each, Aligarh-1; Varanasi-1; **Gangetic West Bengal:** Kolkata-2 & Alipore-1; **Himachal Pradesh:** Solan-1 and **Coastal Karnataka:** Honavar-1.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Uttar Pradesh, Bihar, West Bengal & Sikkim, West Madhya Pradesh, Vidarbha, Telangana, Coastal Andhra Pradesh & Yanam, Odisha, Gujarat Region and Assam & Meghalaya.

◆ **Minimum Temperature Departures (as on 16-09-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Himachal Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim and Odisha; at isolated places over Madhya Pradesh, Gangetic West Bengal, Saurashtra & Kutch, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, Telangana and Andaman & Nicobar Islands and near normal over rest parts of the country. **Yesterday, the lowest minimum temperature of 19.0°C** was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 16-09-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Odisha; at a few places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. They were **markedly below normal (-5.1°C or less)** at a few places over West Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Uttar Pradesh, Madhya Maharashtra and at a few places over Konkan & Goa; **below normal (-1.6°C to -3.0°C)** at most places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Marathwada; at many places over Arunachal Pradesh, Gujarat Region, North Interior Karnataka; at a few places over East Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands, South Interior Karnataka and at isolated places over Telangana and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 40.0°C** was reported at **Phalodi (West Rajasthan)** over the plains of the country.

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

- ◆ The **Western Disturbance** as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long.76°E to the north of Lat. 27°N persists.
- ◆ The **Well Marked Low Pressure Area** over central parts of Uttar Pradesh & neighbourhood now seen as a **Low Pressure Area** over the same region and the associated cyclonic circulation extends upto 4.5 km above mean sea level.
- ◆ The **Monsoon Trough** at mean sea level now passes through Bikaner, Narnaul, centre of Low Pressure Area over central parts of Uttar Pradesh & neighbourhood, Varanasi, Daltonganj, Digha and thence east-southeastwards to Northeast Bay of Bengal.
- ◆ The **trough** now runs from Northeast Arabian Sea to the cyclonic circulation associated with the Low Pressure Area over central parts of Uttar Pradesh & neighbourhood across Gujarat state and West Madhya Pradesh between 3.1 km & 4.5 km above mean sea level.
- ◆ An upper air cyclonic circulation is likely to form over Northwest & adjoining Westcentral Bay of Bengal around 18th September, 2022. Under its influence, a Low Pressure Area is likely to form over the same region during subsequent 48 hours.

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

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over Uttarakhand, East Uttar Pradesh, Central, East & Northeast India.
- ◆ Isolated to scattered light/moderate rainfall activity likely over rest parts of the country except over most parts of Northwest India and south Peninsular India where dry weather is likely.

## Weather Warning during next 5 days \*

**17 Sept (Day 1): ♦ Heavy rainfall** at isolated places very likely over Uttarakhand, East Uttar Pradesh, Andaman & Nicobar Islands, ghat areas of Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, Gangetic West Bengal, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **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 2): ♦ Heavy rainfall** at isolated places very likely over Odisha and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over East Uttar Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **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.

**19 Sept (Day 3): ♦ Heavy rainfall** at isolated places likely over Chhattisgarh, Odisha and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over northwest and adjoining northeast, and adjoining west-central Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off South Sri Lanka coast, central parts of northwest Bay of Bengal. **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.

**20 Sept (Day 4): ♦ Heavy to very heavy rainfall** at isolated places likely over Odisha and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over northwest and adjoining northeast, and adjoining west-central Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off South Sri Lanka coast. **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.

**21 Sept (Day 5): ♦ Heavy to very heavy rainfall** at isolated places likely over Odisha and **heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over northwest and adjoining northeast, and adjoining west-central Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off South Sri Lanka coast. **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)**  
**17-September-2022**

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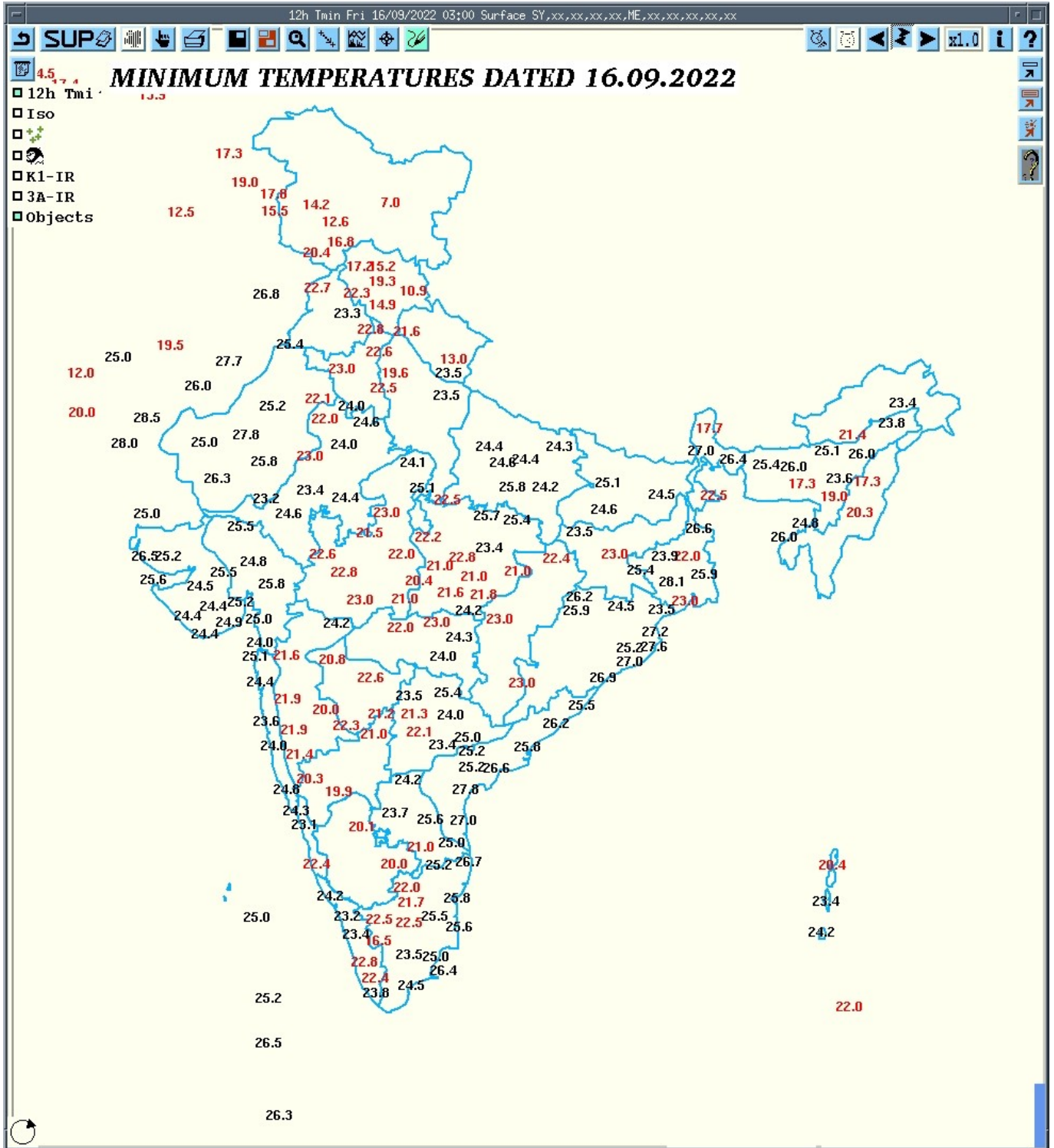
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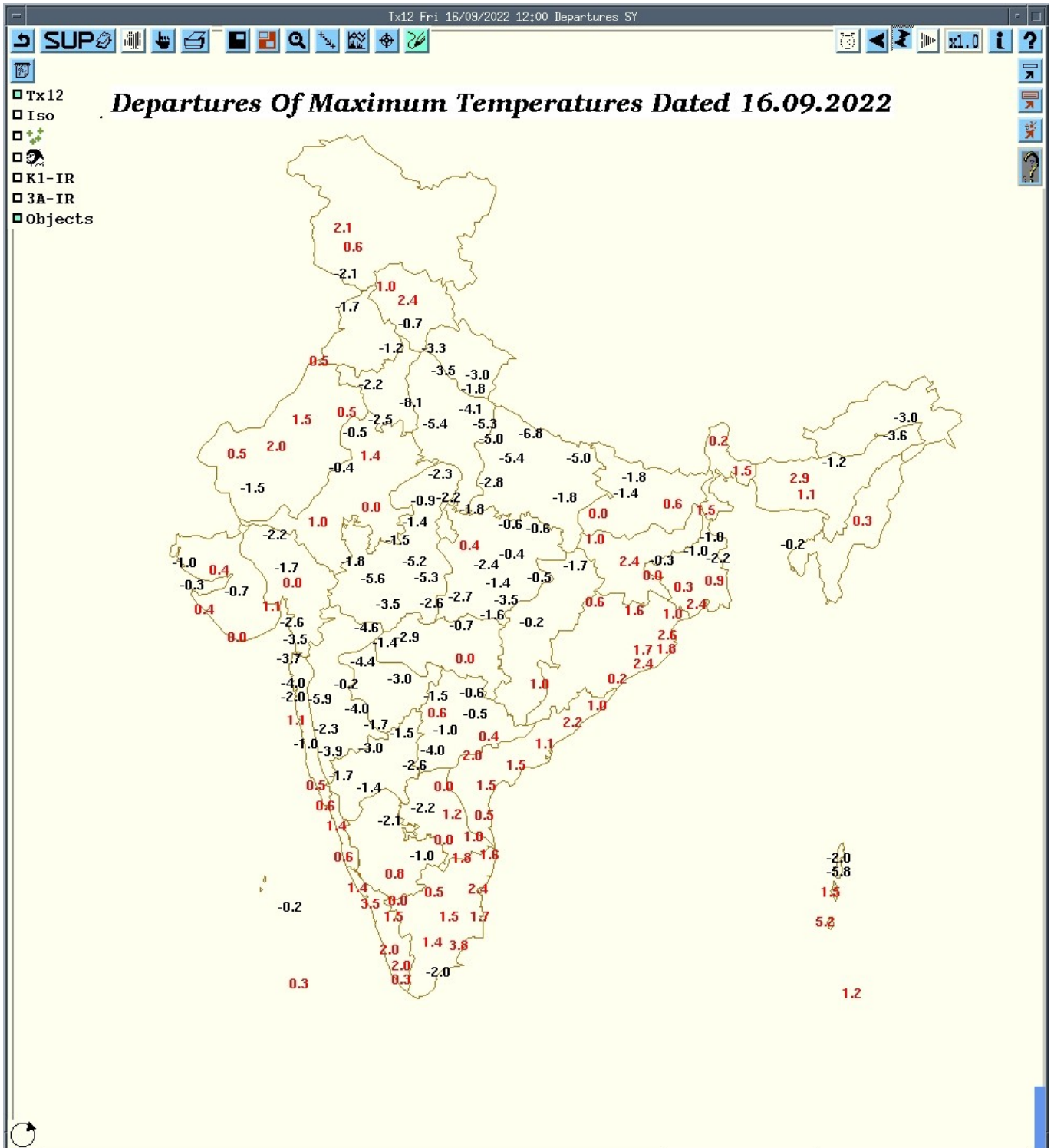
Fig. 3: Minimum Temperature during past 24 hours



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Fig. 4 : Departure from Normal of Maximum Temperatures



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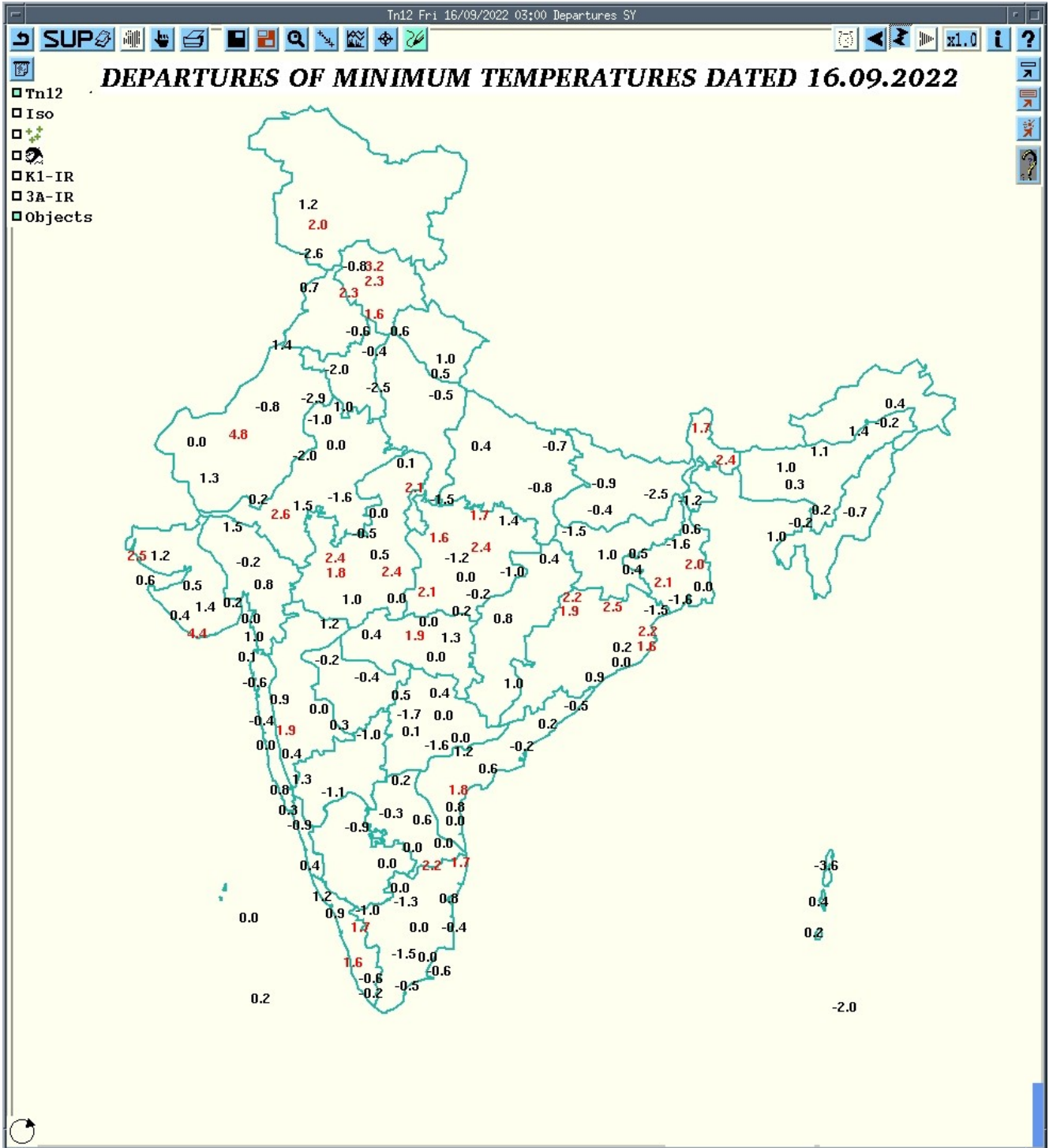
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(Created by the MetInfo team 19/09/2022)



Fig. 5 : Departure from Normal of Minimum Temperatures



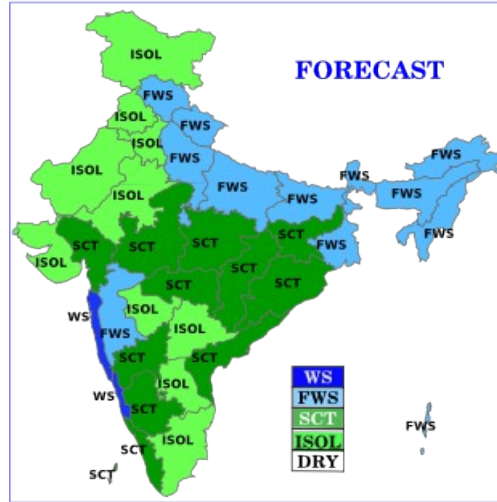
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## Saturday 17 September 2022



**17 Sept (Day 1): ♦ Heavy rainfall** at isolated places very likely over Uttarakhand, East Uttar Pradesh, Andaman & Nicobar Islands, ghat areas of Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, Gangetic West Bengal, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **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.

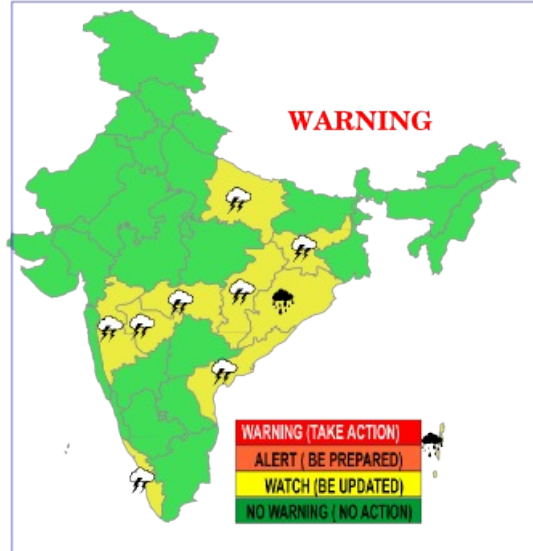
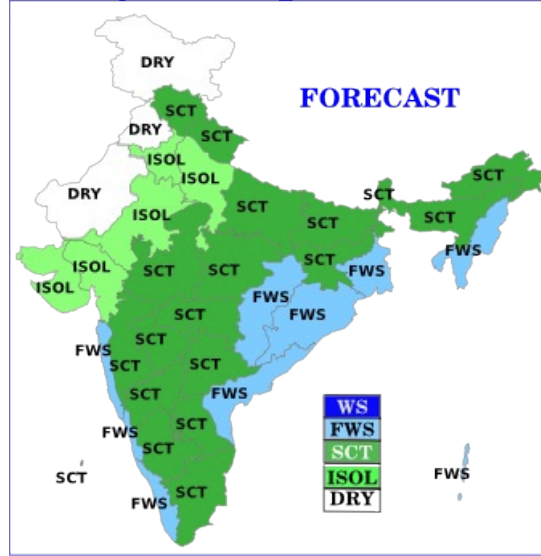
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## Sunday 18 September 2022



18 Sept (Day 2): ♦ **Heavy rainfall** at isolated places very likely over Odisha and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over East Uttar Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **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.

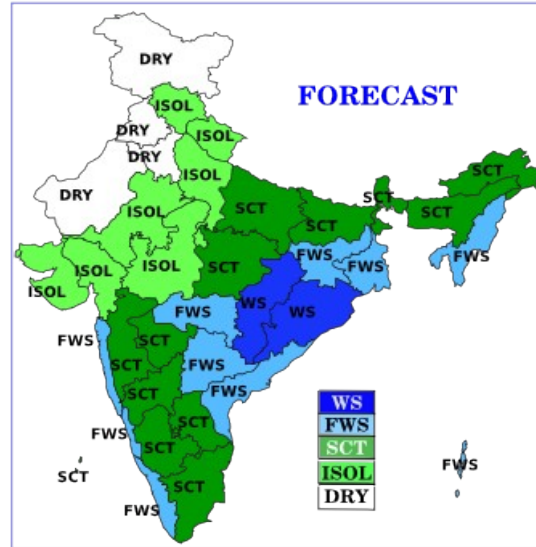
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## Monday 19 September 2022



**19 Sept (Day 3): ♦ Heavy rainfall** at isolated places likely over Chhattisgarh, Odisha and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over northwest and adjoining northeast, and adjoining west-central Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off South Sri Lanka coast, central parts of northwest Bay of Bengal. **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.

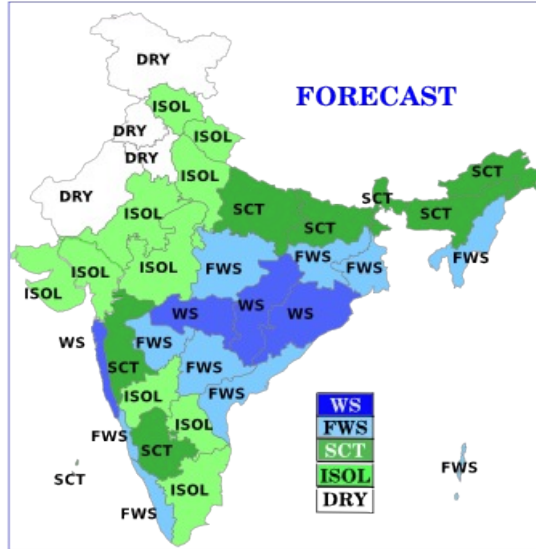
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## Tuesday 20 September 2022



**20 Sept (Day 4): ♦ Heavy to very heavy rainfall** at isolated places likely over Odisha and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over northwest and adjoining northeast, and adjoining west-central Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off South Sri Lanka coast. **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.

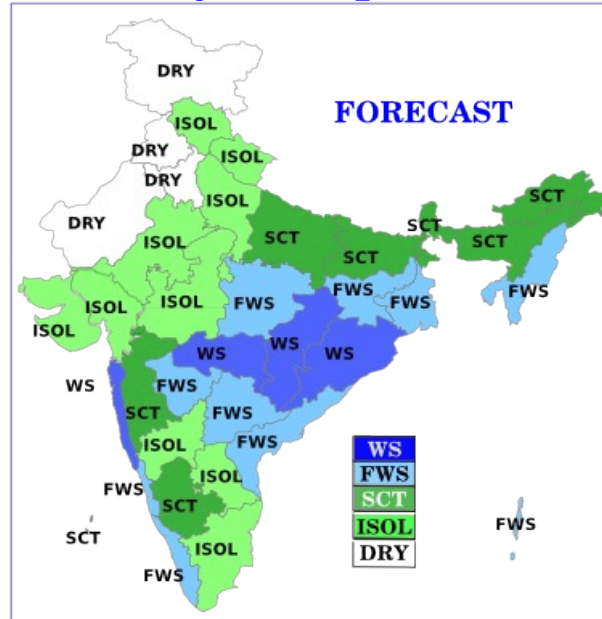
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## Wednesday 21 September 2022



**21 Sept (Day 5): ♦ Heavy to very heavy rainfall** at isolated places likely over Odisha and **heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over northwest and adjoining northeast, and adjoining west-central Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off South Sri Lanka coast. **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

|                                |
|--------------------------------|
| <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 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  $4.5^{\circ}\text{C}$  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.)