

Friday 04 November 2022

**MORNING**

Time of Issue: 0800 hours IST

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

- ◆ A Cyclonic circulation lies over south Tamil Nadu & neighbourhood and a trough runs from this system to Lakshadweep area in lower & middle tropospheric levels.
- ◆ A cyclonic circulation lies over Southwest Bay of Bengal & neighbourhood in lower tropospheric levels.
- ◆ Northeasterly winds are prevailing along & off Tamil Nadu coast.
- ◆ Under their influence:
  - ⇒ Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely to continue over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 04th-07th November, 2022. **Isolated very heavy rainfall also very likely over south Tamil Nadu and south Kerala on 04th November, 2022.**
- ◆ Under the influence of a fresh Western Disturbance;
  - ⇒ Scattered/Fairly widespread light/moderate rainfall/snowfall likely over Jammu, Kashmir, Ladakh, Gilgit Baltistan & Muzaffarabad and Himachal Pradesh during 05th-07th; isolated light/moderate rainfall/snowfall over Uttarakhand on 06th & 07th and isolated light rainfall over Punjab during 05th-07th November, 2022. **Isolated heavy rainfall/snowfall is also likely over Kashmir Valley on 06th November, 2022.**

**Main Weather Observations**

- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at many places over South Interior Karnataka and Tamilnadu, Puducherry & karaikal; at a few places over Rayalaseema and at isolated places over Odisha and Kerala & Mahe.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday)(1 cm or more):** Koraput-4; Pondicherry-3; Cuddalore, Karipur and Cochin (International Air Port)-2 each; Chennai, Dharmapuri and Coonoor-1 each.
- ◆ **Thunderstorm/lightning observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- ◆ **Minimum Temperature Departures (as on 03-11-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over West Rajasthan; **above normal (1.6°C to 3.0°C)** at most places over Uttarakhand, Punjab and Haryana, Chandigarh & Delhi; at a few places over Himachal Pradesh, Odisha, East Rajasthan and Coastal Andhra Pradesh & Yanam; at isolated places over Bihar, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Gujarat State and Madhya Maharashtra. They were **below normal (-1.6°C to -3.0°C)** at a few places over Vidarbha, Marathwada and Tamil Nadu, Puducherry & Karaikal; at isolated places over Gangetic West Bengal, Konkan & Goa and Telangana and **near normal** over rest parts of the country. **Yesterday, the lowest minimum temperature of 12.0°C** was reported at **Motihari (Bihar)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 03-11-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over West Rajasthan; at isolated places over East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at most places over East Rajasthan; at many places over Gujarat Region and East Madhya Pradesh; at a few places over West Madhya Pradesh, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha and Kerala & Mahe; at isolated places over Himachal Pradesh, Telangana and Coastal Andhra Pradesh & Yanam. They were **below normal (-1.6°C to -3.0°C)** at many places over South Interior Karnataka; a few places over Nagaland, Manipur, Mizoram & Tripura and **near normal** over rest parts of the country. **Yesterday, the highest maximum temperature of 38.0°C** was reported at **Bhuj (Rudramata) & Kandla Int. AP (Saurashtra & Kutch)** over the country.

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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

- ◆ The cyclonic circulation over south Tamilnadu & neighbourhood extending upto 5.8 km above mean sea level persists.
- ◆ The trough from above cyclonic circulation over south Tamil Nadu & neighbourhood to Lakshadweep area across Kerala extending upto 5.8 km above mean sea level persists.
- ◆ The cyclonic circulation over Southwest Bay of Bengal & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The Western Disturbance as a trough in westerlies with its axis at 5.8 km above mean sea level now passes through roughly along Long. 90°E to the north of Lat. 25°N.
- ◆ A fresh Western Disturbance as a trough in westerlies with its axis at 5.8 km above mean sea level passes through roughly along Long. 55°E to the north of Lat. 30°N.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 09th November, 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.
- ◆ Shallow to moderate fog likely at isolated pockets during early morning hours over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.

### Weather Outlook for subsequent 2 days During 09th-11th November, 2022

- ◆ Fairly Widespread/Widespread light/moderate rainfall over parts of south peninsular India & Islands with isolated heavy falls likely over Tamil Nadu and Kerala.
- ◆ Dry weather likely over rest parts of the country.



**Weather Warning during next 5 days \***

**04 Nov (Day 1): ♦ Heavy to very heavy rainfall** very likely at isolated places over south Kerala and south Tamil Nadu.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

**05 Nov (Day 2): ♦ Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Jammu & Kashmir.

**06 Nov (Day 3): ♦ Heavy rainfall** likely at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Jammu & Kashmir.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu & Kashmir, Andaman & Nicobar Islands and Kerala & Mahe.

**07 Nov (Day 4): ♦ Heavy rainfall** likely at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.

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

**08 Nov (Day 5): ♦ Heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.

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

**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.**



**Table-1**  
**5 Day Rainfall Forecast (MORNING)**  
**04-November-2022**

| Met-Sub-Division               | 04-Nov<br>Today | 05Nov<br>Sat | 06Nov<br>Sun | 07Nov<br>Mon | 08Nov<br>Tue |
|--------------------------------|-----------------|--------------|--------------|--------------|--------------|
| 1. Andaman & Nicobar Islands   | SCT             | SCT          | FWS          | WS           | WS           |
| 2. Arunachal Pradesh           | ISOL            | DRY          | DRY          | DRY          | DRY          |
| 3. Assam & Meghalaya           | ISOL            | DRY          | DRY          | DRY          | DRY          |
| 4. N. M. M. & T.               | ISOL            | ISOL         | ISOL         | DRY          | DRY          |
| 5. S.H. West Bengal & Sikkim   | DRY             | DRY          | DRY          | ISOL         | ISOL         |
| 6. Gangetic West Bengal        | DRY             | DRY          | DRY          | DRY          | DRY          |
| 7. Odisha                      | ISOL            | DRY          | DRY          | DRY          | DRY          |
| 8. Jharkhand                   | DRY             | DRY          | DRY          | DRY          | DRY          |
| 9. Bihar                       | DRY             | DRY          | DRY          | DRY          | DRY          |
| 10. East Uttar Pradesh         | DRY             | DRY          | DRY          | DRY          | DRY          |
| 11. West Uttar Pradesh         | DRY             | DRY          | DRY          | DRY          | DRY          |
| 12. Uttarakhand                | DRY             | DRY          | ISOL         | ISOL         | DRY          |
| 13. Haryana, Chd & Delhi       | DRY             | DRY          | DRY          | DRY          | DRY          |
| 14. Punjab                     | DRY             | ISOL         | ISOL         | ISOL         | DRY          |
| 15. Himachal Pradesh           | DRY             | SCT          | SCT          | FWS          | ISOL         |
| 16. J & K and Ladakh           | ISOL            | FWS          | FWS          | FWS          | ISOL         |
| 17. West Rajsthan              | DRY             | DRY          | DRY          | DRY          | DRY          |
| 18. East Rajasthan             | DRY             | DRY          | DRY          | DRY          | DRY          |
| 19. West Madhya Pradesh        | DRY             | DRY          | DRY          | DRY          | DRY          |
| 20. East Madhya Pradesh        | DRY             | DRY          | DRY          | DRY          | DRY          |
| 21. Gujarat Region             | DRY             | DRY          | DRY          | DRY          | DRY          |
| 22. Saurashtra & Kutch         | DRY             | DRY          | DRY          | DRY          | DRY          |
| 23. Konkan & Goa               | DRY             | DRY          | DRY          | DRY          | DRY          |
| 24. Madhya Maharashtra         | DRY             | DRY          | DRY          | DRY          | DRY          |
| 25. Marathawada                | DRY             | DRY          | DRY          | DRY          | DRY          |
| 26. Vidharbha                  | DRY             | DRY          | DRY          | DRY          | DRY          |
| 27. Chhattisgarh               | DRY             | DRY          | DRY          | DRY          | DRY          |
| 28. Coastal A. P. & Yanam      | FWS             | SCT          | SCT          | ISOL         | ISOL         |
| 29. Telangana                  | DRY             | DRY          | DRY          | DRY          | DRY          |
| 30. Rayalaseema                | FWS             | FWS          | SCT          | ISOL         | ISOL         |
| 31. T.N.,Puducherry & Karaikal | FWS             | FWS          | FWS          | SCT          | SCT          |
| 32. Coastal Karnataka          | SCT             | SCT          | SCT          | ISOL         | ISOL         |
| 33. North Interior Karnataka   | ISOL            | ISOL         | ISOL         | DRY          | DRY          |
| 34. South Interior Karnataka   | FWS             | FWS          | SCT          | SCT          | ISOL         |
| 35. Kerala & Mahe              | WS              | WS           | WS           | FWS          | SCT          |
| 36. Lakshadweep                | FWS             | FWS          | FWS          | FWS          | FWS          |

**% 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                                  |            |                               |

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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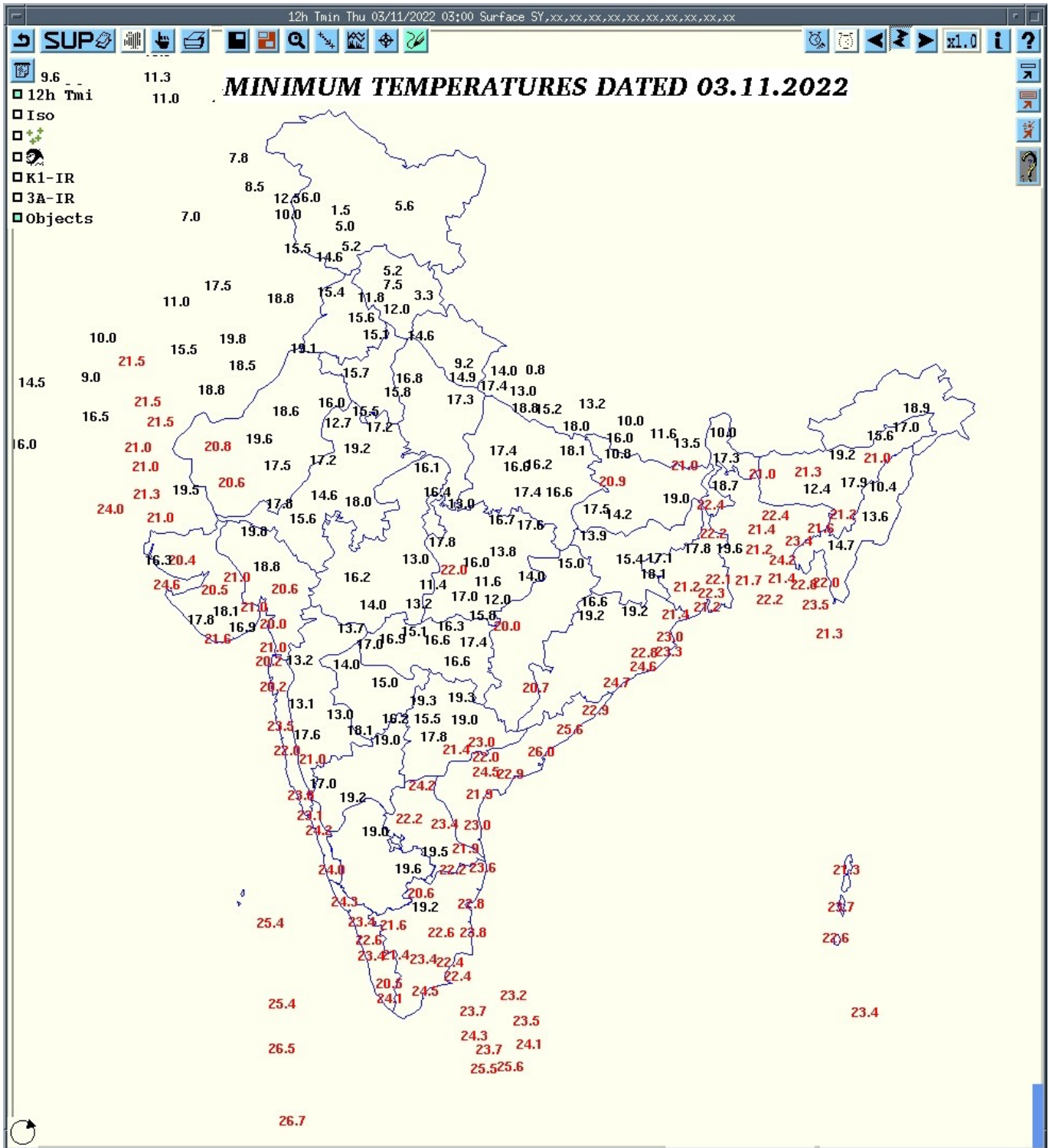
(Circle as the Station code 4870)







Fig. 3: Minimum Temperature during past 24 hours

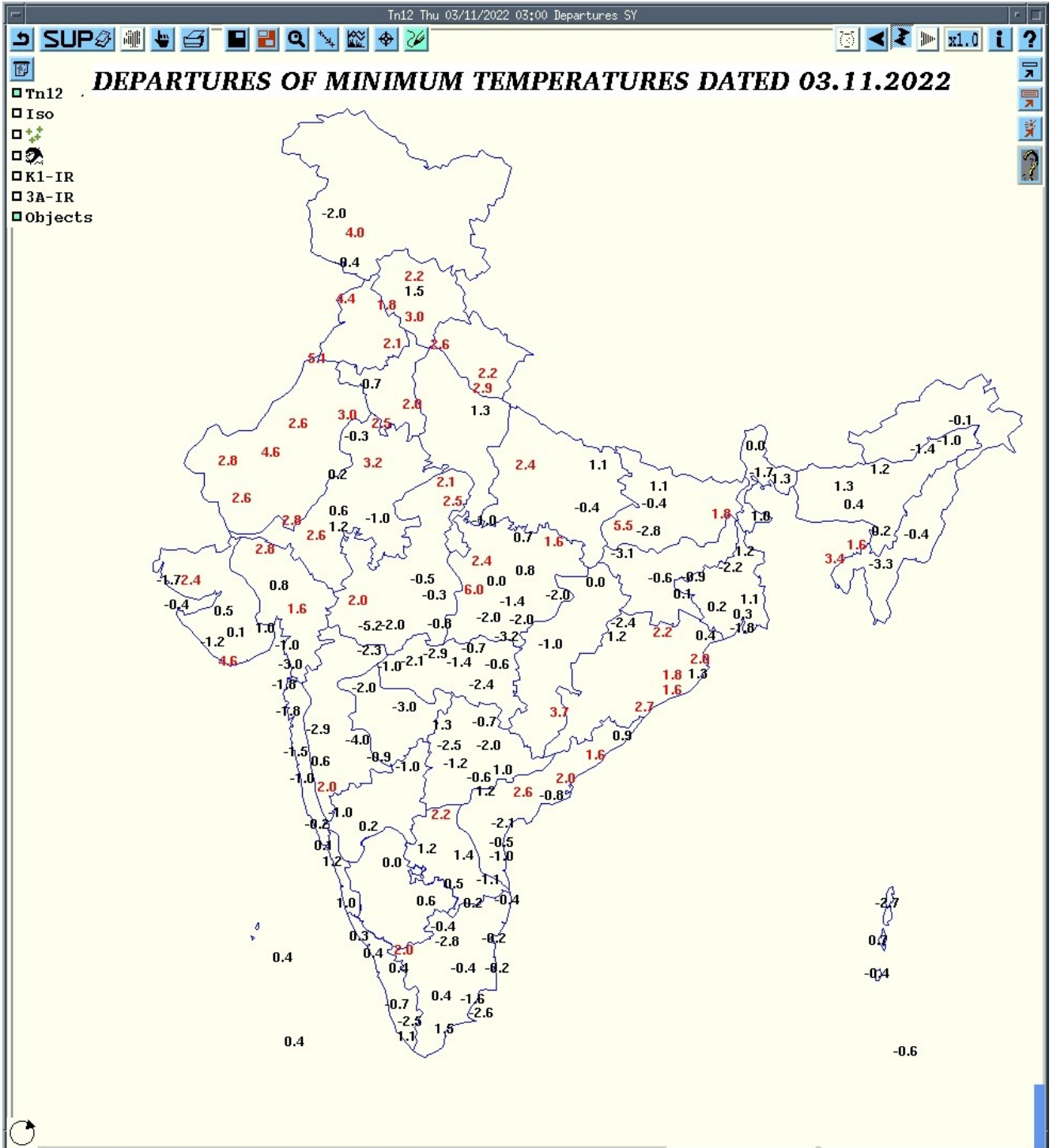


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Fig. 5: Departure from Normal of Minimum Temperatures



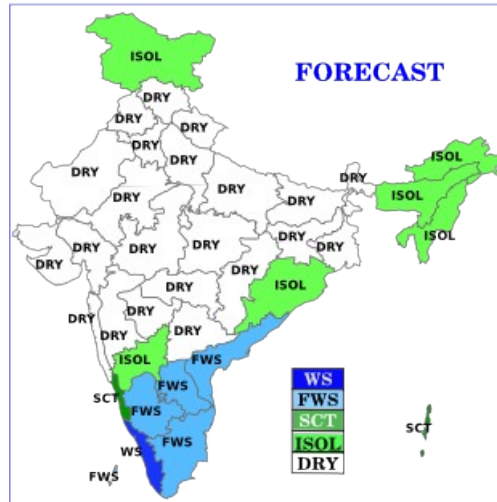
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## Friday 04 November 2022



**04 Nov (Day 1):** ♦ **Heavy to very heavy rainfall** very likely at isolated places over south Kerala and south Tamil Nadu.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

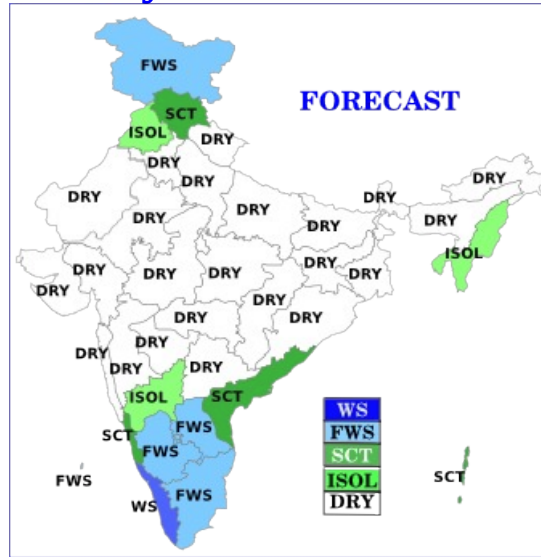
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## Saturday 05 November 2022



**05 Nov (Day 2):** ♦ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Jammu & Kashmir.

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## Sunday 06 November 2022



**06 Nov (Day 3):** ♦ Heavy rainfall likely at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Jammu & Kashmir.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu & Kashmir, Andaman & Nicobar Islands and Kerala & Mahe.

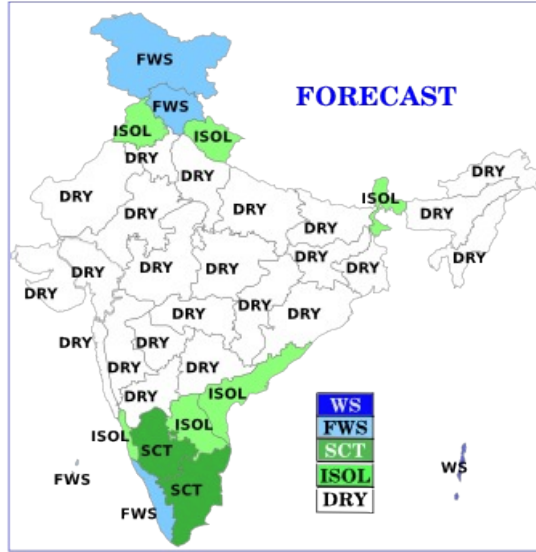
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## Monday 07 November 2022



**07 Nov (Day 4): ♦ Heavy rainfall** likely at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.

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

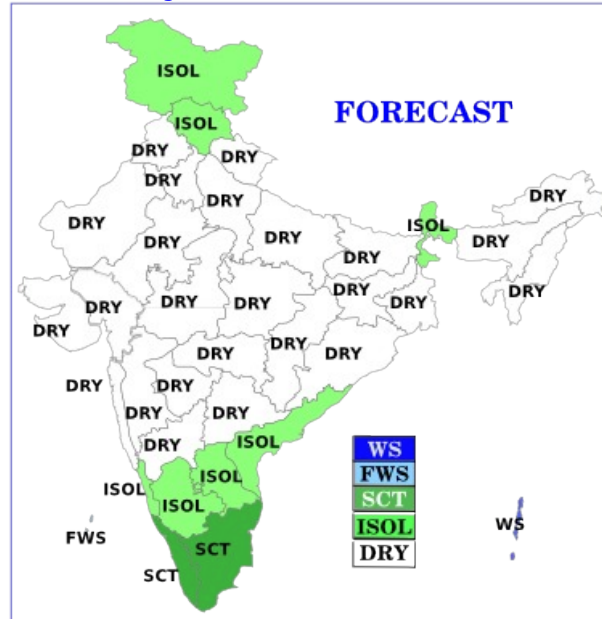
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## Tuesday 08 November 2022



**08 Nov (Day 5): ♦ Heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.

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

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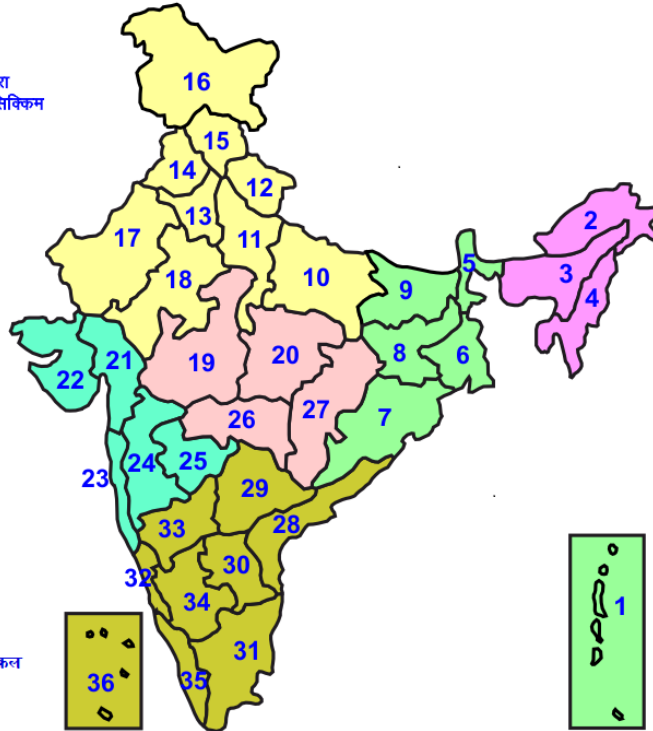
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## LEGENDS

- 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

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## 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)

\* 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

(Created by the Meteorology Dept.)