



Wednesday 24 October 2018

**MID-DAY**

**Time of Issue: 1330 Hours IST**

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

- ◆ Northeast Monsoon rainfall is very likely to commence over southeast Peninsular India during next 48 hours.
- ◆ Heavy rainfall recorded at isolated places over Kerala from 0830 hrs IST of yesterday to 0830 hrs IST of today.
- ◆ **Thunderstorm** observed at a few places over Kerala and at isolated places over Jammu & Kashmir, Odisha, Tamilnadu & Puducherry and Lakshadweep from 0830 hours IST of yesterday to 0830 hours IST of today.

**Main Weather Observations**

- ◆ **Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today) :** Rain/thundershowers observed at many places over Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Uttarakhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, North Interior Karnataka, Kerala, Tamilnadu and Lakshadweep.
- ◆ **Rainfall recorded at 0830 hours IST of today** (1 cm or more) are: Punalur-7; Tondi-2 and Hut Bay & Maya Bandar-1 each.
- ◆ **Maximum temperature departures as on 23-10-2018:** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Vidarbha, Madhya Maharashtra, Marathwada and Rayalaseema; **above normal (1.6°C to 3.0°C)** at most places over West Rajasthan & Gujarat Region; at many places over East Rajasthan, Madhya Pradesh, Konkan & Goa, Telangana, Interior Karnataka and Coastal Andhra Pradesh; at a few places over Assam & Meghalaya, Jharkhand and Chhattisgarh and at isolated places over Kerala, Puducherry & Tamilnadu, Andaman & Nicobar Islands and East Uttar Pradesh. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Jammu & Kashmir and near normal over rest of the country. The **highest maximum temperature** of 38.8°C was recorded at **Barmer (West Rajasthan)** over plains of the country.
- ◆ **Minimum temperature departures as on 24-10-2018:** Minimum temperature are **above normal (1.6°C to 3.0°C)** at many places over Telangana & North Interior Karnataka and at isolated places over Rajasthan & Gangetic West Bengal. They are **appreciable below normal (-3.0°C to -5.1°C)** at a few places over Bihar; **below normal (-1.6°C to -3.0°C)** at most places over Uttarakhand; at many places over Jammu & Kashmir, Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Marathwada and Rayalaseema; at a few places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, Tamilnadu & Puducherry and at isolated places over Gujarat, Sub- Himalayan West Bengal & Sikkim and Assam & Meghalaya and near normal over rest of the country. The lowest **minimum temperature** of 11.0°C recorded at Alwar (East Rajasthan) over plains of the country.

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**Meteorological Analysis (Based on 0830 hours IST)**

- ◆ Northeast Monsoon rainfall is very likely to commence over southeast Peninsular India during next 48 hours.
- ◆ A trough runs from Telangana to southeast Vidarbha at 0.9 km above mean sea level.
- ◆ A north-south trough roughly runs along 90°E to the north of 25° N at 3.1 km above mean sea level.
- ◆ A cyclonic circulation lies over Gulf of Siam and extends upto 3.1 km above mean sea level.
- ◆ A fresh western disturbance as a cyclonic circulation lies over west Afghanistan & neighbourhood at 3.1 km above mean sea level.
- ◆ The cyclonic circulation over central Pakistan & neighbourhood now lies over West Rajasthan & neighbourhood and extends upto 1.5 km above mean sea level.
- ◆ The east-west trough roughly along Latitude 8.0° N extending upto 3.1 km above mean sea level has become less marked.
- ◆ The Western Disturbance as a trough roughly along 80°E to the north of 30°N at 5.8 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over south Rajasthan & neighbourhood extending upto 0.9 km above mean sea level has become less marked.
- ◆ The trough from South Interior Karnataka to north Madhya Maharashtra extending upto 0.9 km above mean sea level has become less marked.
- ◆ The trough from Sikkim to Manipur extending upto 2.1 km above mean sea level has become less marked.

**Weather Forecast for next 5 days \* upto 0830 hours IST of 29th October 2018**

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table -1.
- ◆ Shallow to moderate fog very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 3 days.
- ◆ Maximum temperatures is very likely to be above normal by 2-3°C over parts of west India.
- ◆ No significant change in temperatures over rest of the country during next 2-3 days.

**Weather Outlook for subsequent 2 days from 29th October to 31st October 2018**

- ◆ Fairly widespread to widespread rainfall activity likely over Tamilnadu & Puducherry and scattered to fairly widespread rainfall activity over Kerala and Andaman & Nicobar Islands.
- ◆ Isolated rainfall likely over coastal Odisha, Coastal Andhra Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Lakshadweep.
- ◆ Dry weather likely over rest of the country.



Weather Warning during next 5 days \*

**24 October (Day 1):** ♦ Thunderstorm with lightning and gusty winds very likely at isolated places over Tamilnadu & Puducherry and Kerala.

♦ Thunderstorm with lightning very likely at isolated places over south east Vidarbha.

**25 October (Day 2):** ♦ Thunderstorm with gusty winds very likely at isolated places over Tamilnadu & Puducherry and Kerala.

**26 October (Day 3):** ♦ No weather warning.

**27 October (Day 4):** ♦ No weather warning.

**28 October (Day 5):** ♦ No weather warning.

► **Kindly visit State level Meteorological centre/Regional Meteorological centers website for district wise forecast and warning.**

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Table-1

## 5 Day Rainfall Forecast (MID-DAY)

24-October-2018

Met-Sub-Division	24-Oct Today	25Oct Thu	26Oct Fri	27Oct Sat	28Oct Sun
1. Andaman & Nicobar Islands	SCT	SCT	SCT	FWS	FWS
2. Arunachal Pradesh	ISOL	DRY	DRY	DRY	DRY
3. Assam & Meghalaya	ISOL	DRY	DRY	ISOL	ISOL
4. N. M. M. & T.	DRY	DRY	DRY	ISOL	ISOL
5. S.H. West Bengal & Sikkim	DRY	DRY	DRY	DRY	DRY
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	ISOL	ISOL	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	ISOL	ISOL	ISOL	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	ISOL	ISOL	ISOL	DRY	DRY
16. Jammu & Kashmir	ISOL	ISOL	ISOL	DRY	DRY
17. West Rajsthan	ISOL	ISOL	DRY	DRY	DRY
18. East Rajasthan	DRY	ISOL	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	ISOL	ISOL	DRY	DRY	DRY
24. Madhya Maharashtra	ISOL	ISOL	DRY	DRY	DRY
25. Marathwada	ISOL	DRY	DRY	DRY	DRY
26. Vidharbha	ISOL	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	DRY	DRY
28. Coastal Andhra Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	DRY	DRY	DRY	DRY
30. Rayalaseema	DRY	DRY	ISOL	DRY	DRY
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	SCT
32. Coastal Karnataka	DRY	DRY	DRY	DRY	DRY
33. North Interior Karnataka	ISOL	DRY	DRY	DRY	DRY
34. South Interior Karnataka	DRY	DRY	ISOL	DRY	DRY
35. Kerala	SCT	ISOL	ISOL	ISOL	ISOL
36. Lakshadweep	ISOL	ISOL	ISOL	ISOL	ISOL

### % 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		

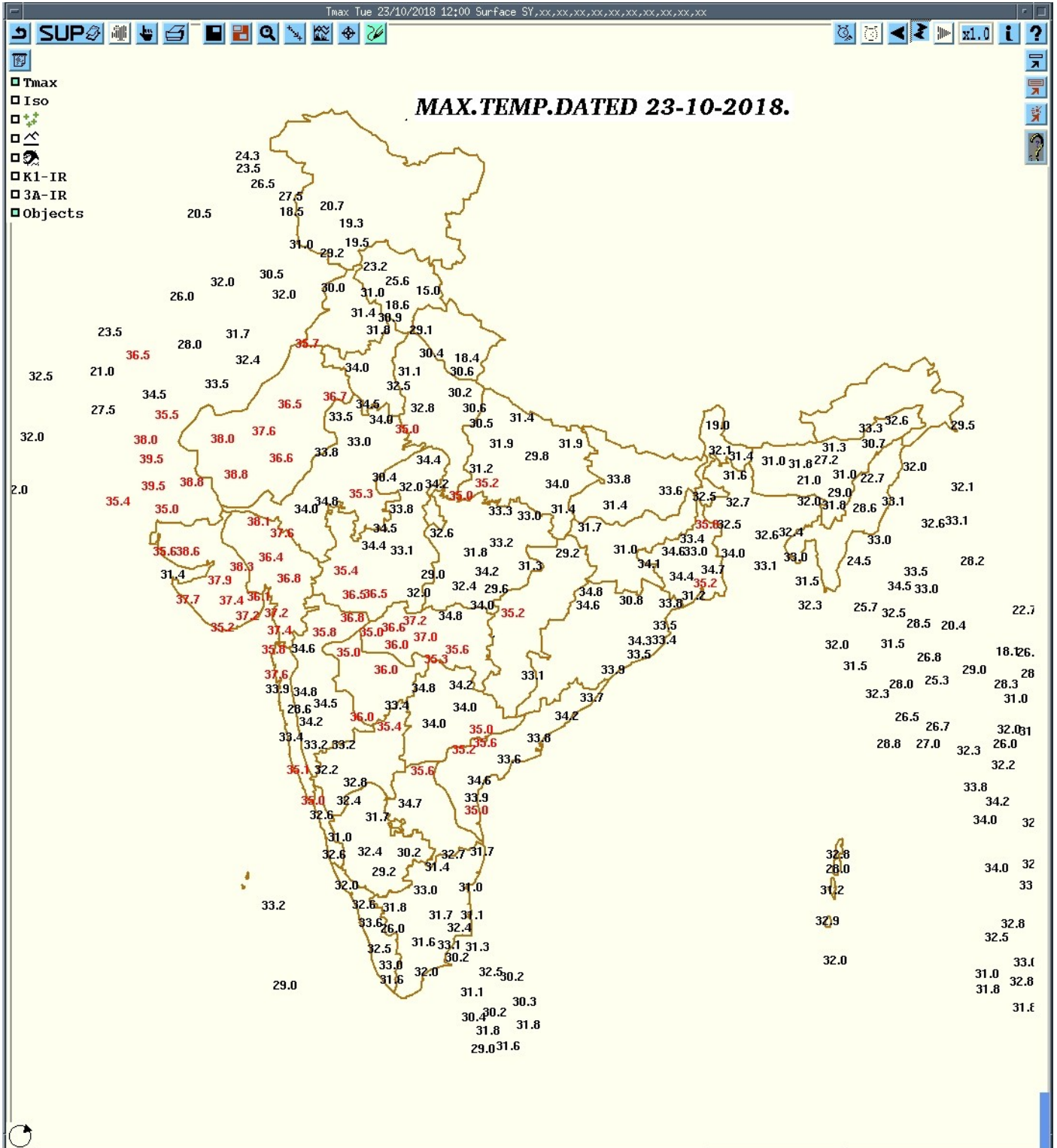
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Fig. 1: Maximum Temperature during past 24 hours



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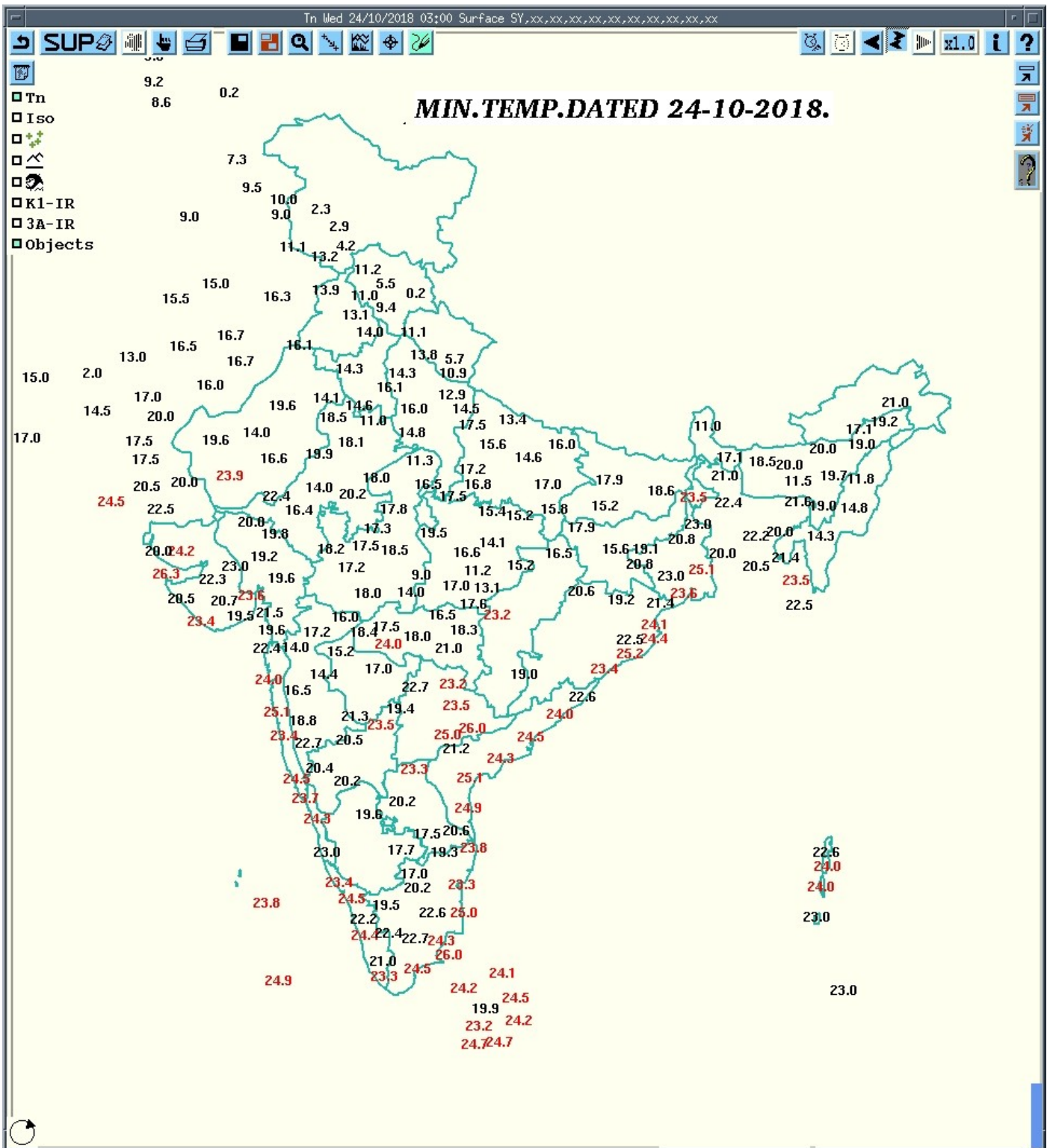
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Fig. 2: Minimum Temperature during past 24 hours



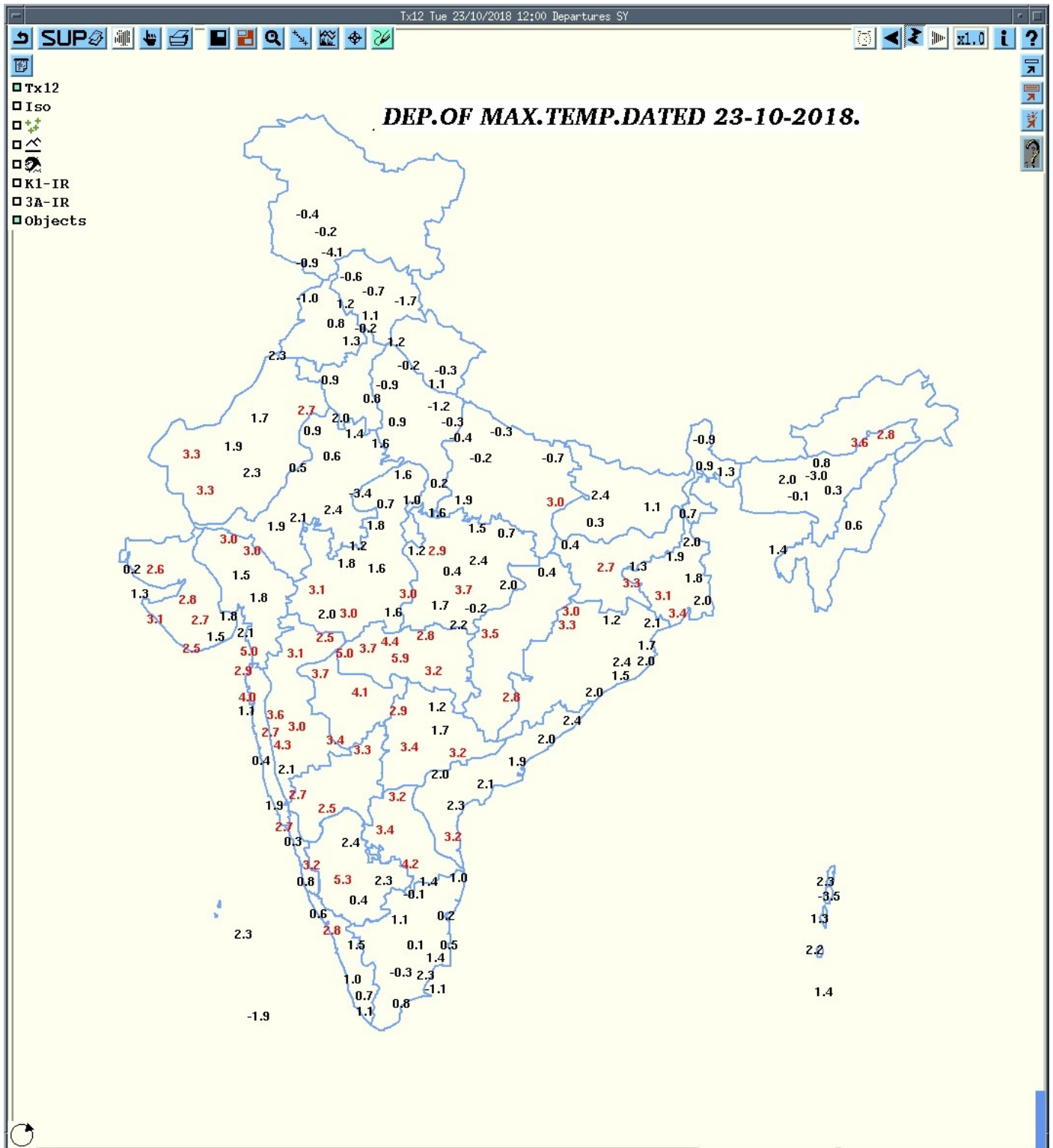
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Fig. 3 : Departure from Normal of Maximum Temperatures

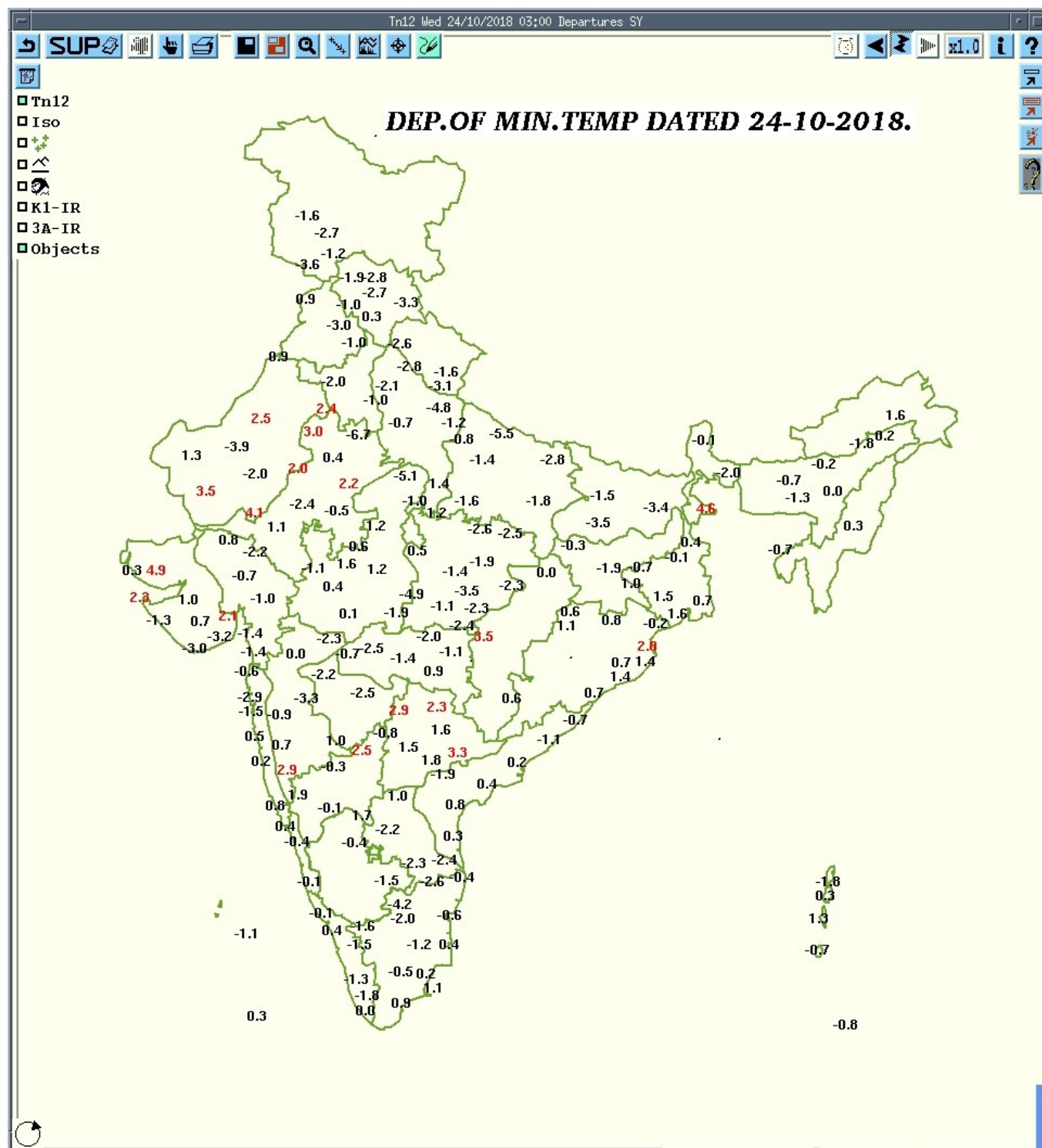


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**Fig. 4 : Departure from Normal of Minimum Temperatures**



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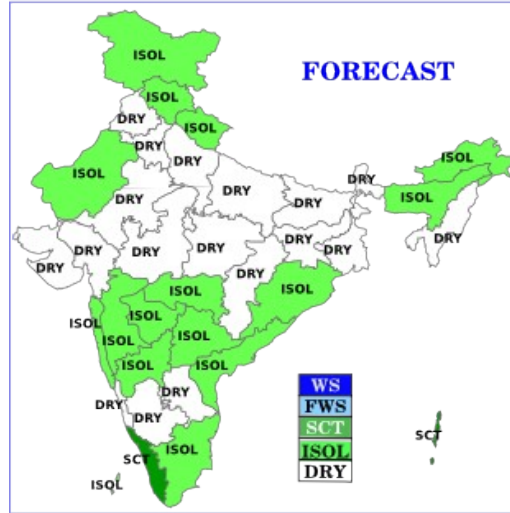
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**Wednesday 24 October 2018**

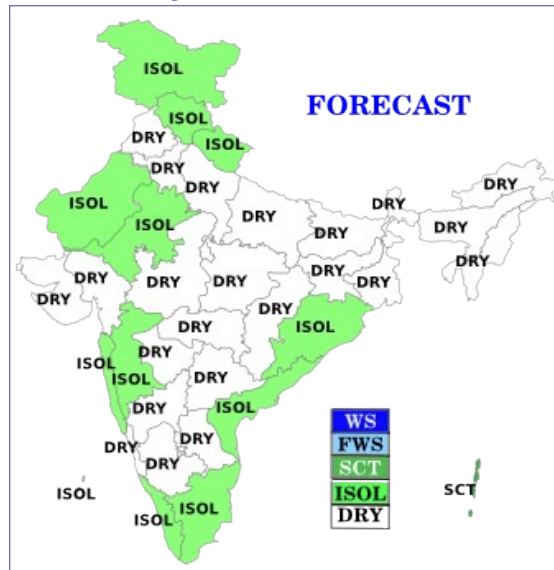


**24 October (Day 1):** ♦ Thunderstorm with lightning and gusty winds very likely at isolated places over Tamilnadu & Puducherry and Kerala.

♦ Thunderstorm with lightning very likely at isolated places over south east Vidarbha.



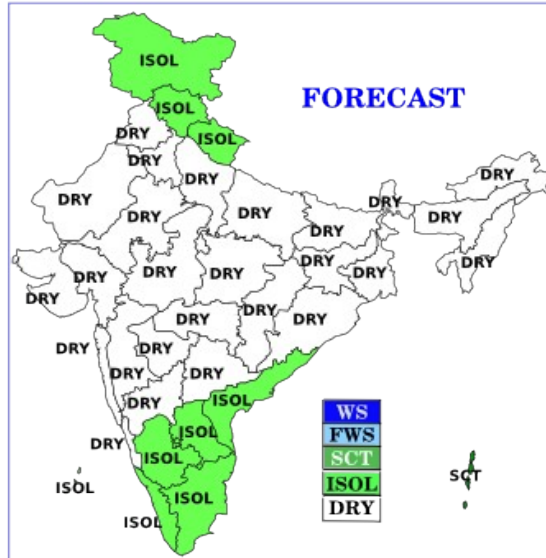
**Thursday 25 October 2018**



**25 October (Day 2):** ♦ Thunderstorm with gusty winds very likely at isolated places over Tamilnadu & Puducherry and Kerala.



**Friday 26 October 2018**



26 October (Day 3): ♦ No weather warning.

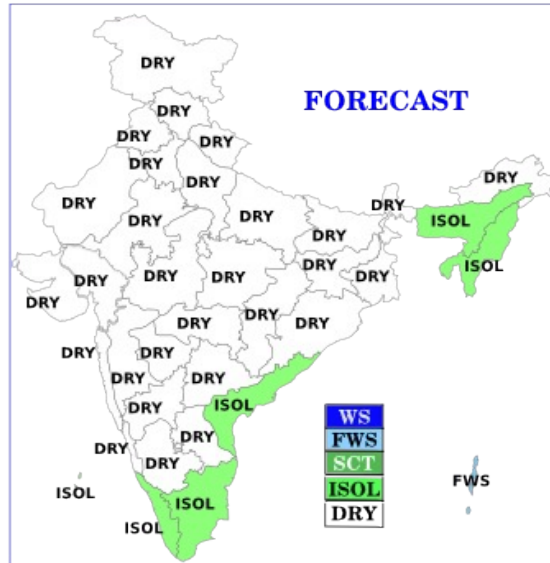
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**Saturday 27 October 2018**



27 October (Day 4): ♦ No weather warning.

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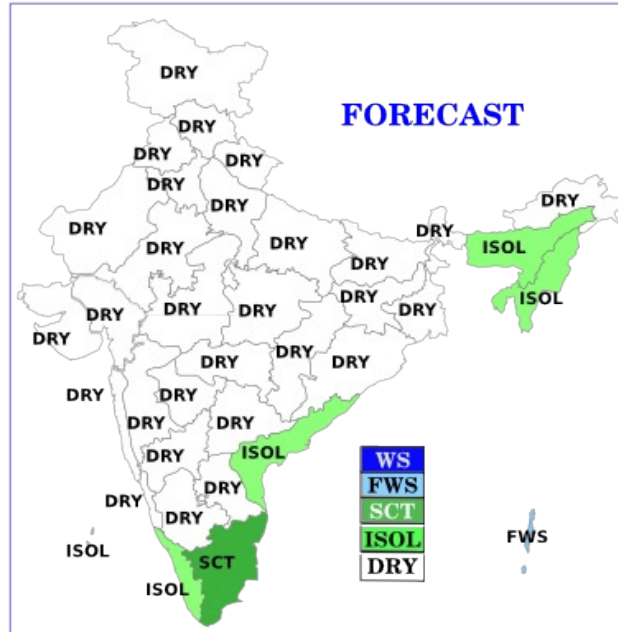
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**Sunday 28 October 2018**



28 October (Day 5): ♦ No weather warning.

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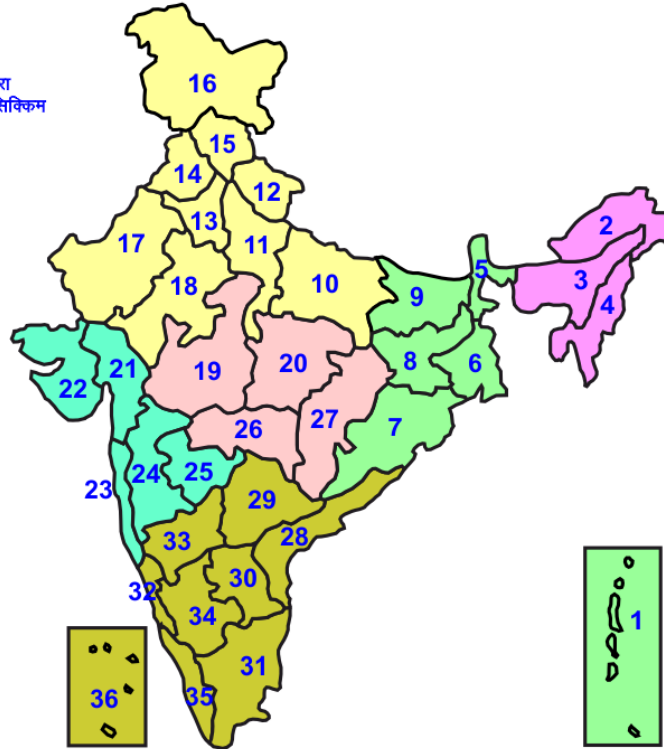
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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर
- 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 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटिय आंध्र प्रदेश
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल
- 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
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. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh
29. Telangana
30. Rayalaseema
31. Tamilnadu & Pondi
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala
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)
Dry (No station reported Rainfall)			

## 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

<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



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 Strom: Wind speed  $> 220$  kmph ( $> 119$  knots)

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