

Table-1

**5 Day Rainfall Forecast (MID-DAY)**

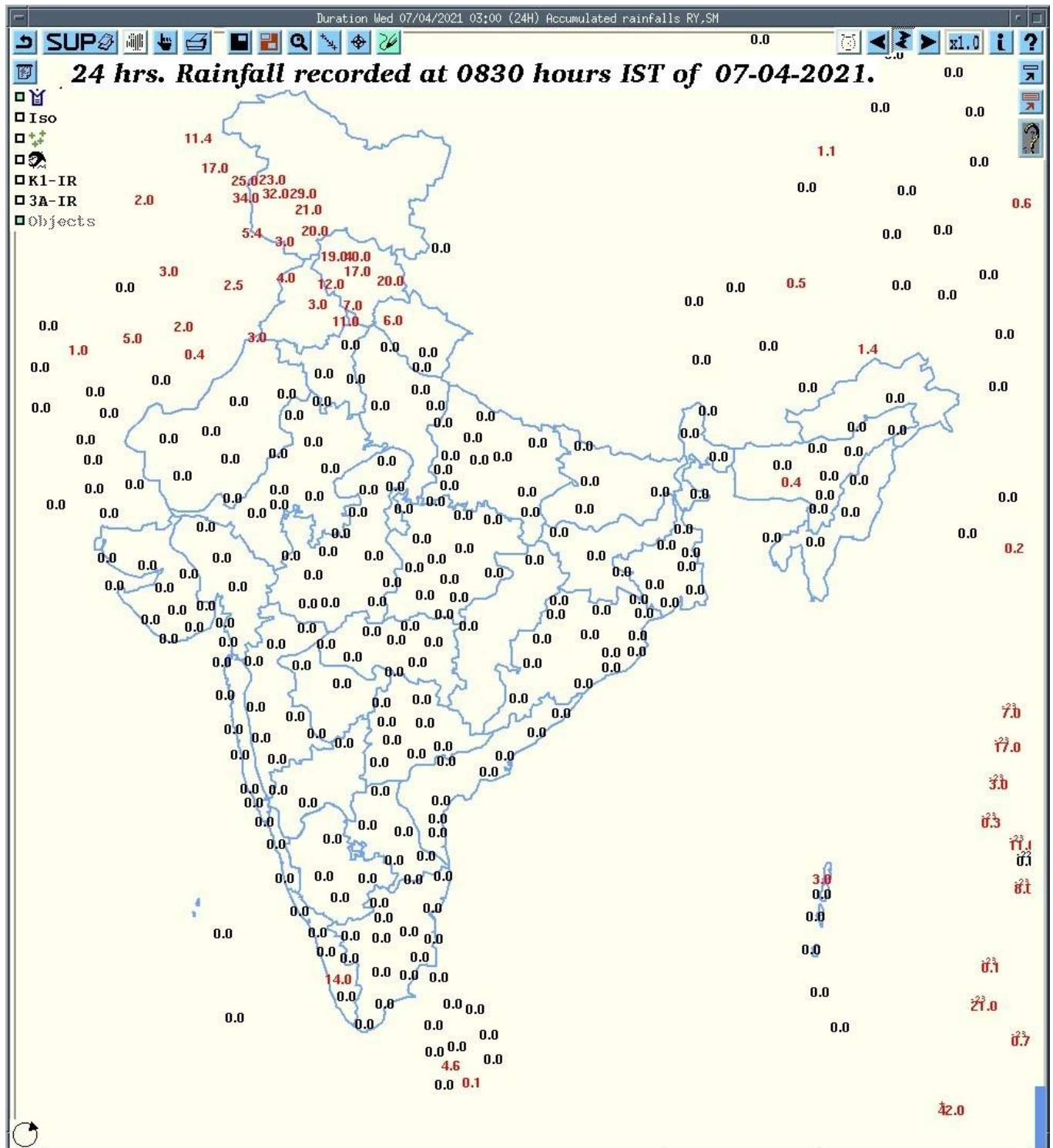
07-April-2021

Met-Sub-Division	07-Apr Today	08Apr Thu	09Apr Fri	10Apr Sat	11Apr Sun
1. Andaman & Nicobar Islands	SCT	ISOL	DRY	ISOL	ISOL
2. Arunachal Pradesh	SCT	FWS	WS	WS	WS
3. Assam & Meghalaya	ISOL	SCT	FWS	FWS	FWS
4. N. M. M. & T.	ISOL	ISOL	SCT	SCT	FWS
5. S.H. West Bengal & Sikkim	ISOL	ISOL	SCT	ISOL	ISOL
6. Gangetic West Bengal	ISOL	SCT	SCT	ISOL	ISOL
7. Odisha	DRY	ISOL	SCT	ISOL	ISOL
8. Jharkhand	DRY	ISOL	ISOL	ISOL	DRY
9. Bihar	DRY	DRY	ISOL	DRY	DRY
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	FWS	ISOL	ISOL	DRY	ISOL
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	SCT	ISOL	ISOL	DRY	ISOL
16. J & K and Ladakh	SCT	ISOL	DRY	ISOL	SCT
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	ISOL	ISOL	ISOL
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	ISOL	ISOL	ISOL	ISOL	ISOL
24. Madhya Maharashtra	ISOL	DRY	ISOL	ISOL	ISOL
25. Marathwada	ISOL	DRY	ISOL	ISOL	ISOL
26. Vidharbha	DRY	DRY	ISOL	ISOL	ISOL
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	DRY	DRY	ISOL	ISOL
30. Rayalaseema	DRY	DRY	DRY	DRY	ISOL
31. T.N.,Puducherry & Karaikal	DRY	DRY	ISOL	ISOL	ISOL
32. Coastal Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
33. North Interior Karnataka	DRY	DRY	DRY	ISOL	ISOL
34. South Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
35. Kerala & Mahe	SCT	SCT	SCT	SCT	SCT
36. Lakshadweep	SCT	SCT	SCT	DRY	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		

**Fig. 1: Accumulated Rainfall (mm) during past 24 hours**



**Fig. 2: Maximum Temperature during past 24 hours**

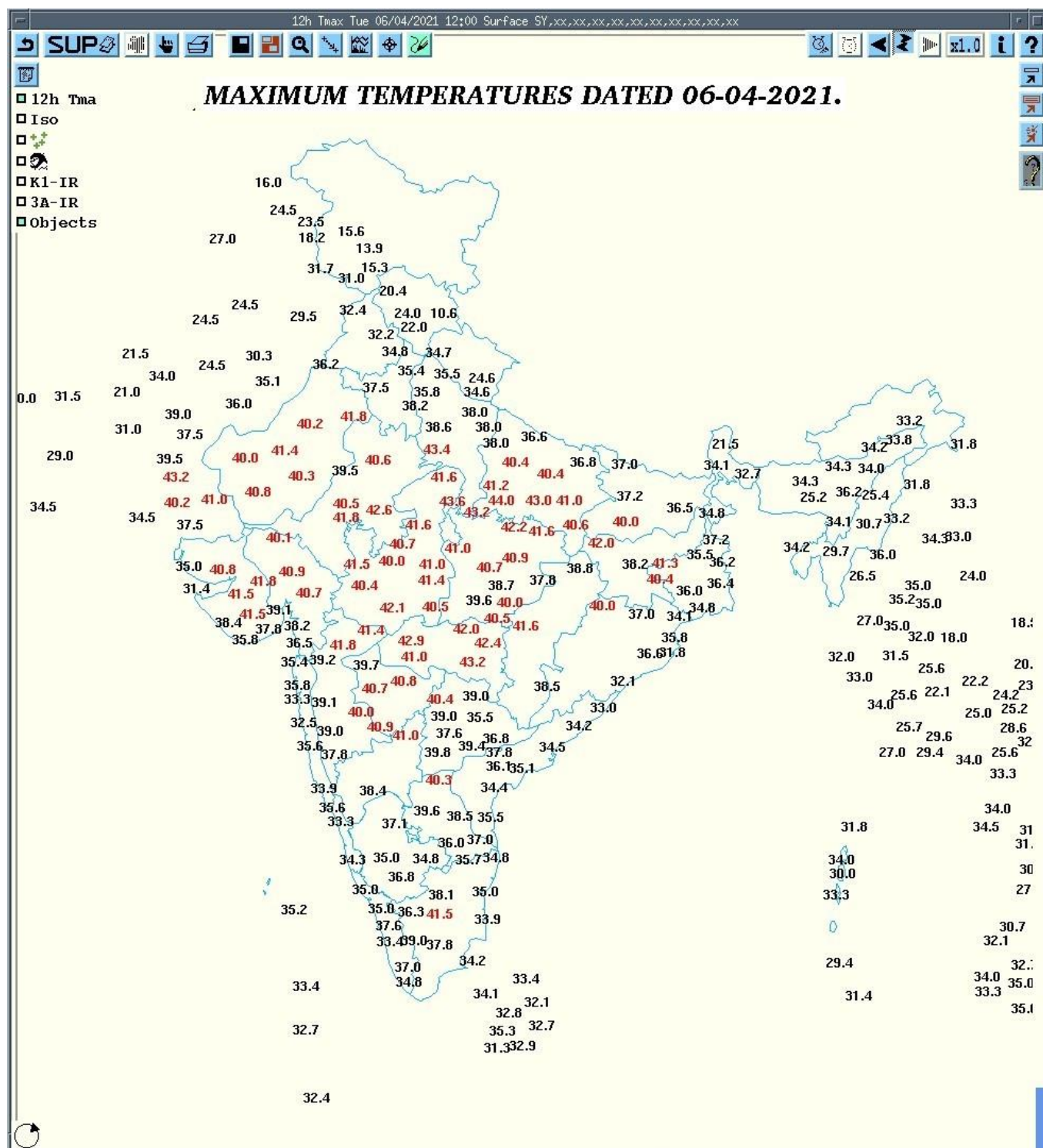




Fig. 3: Minimum Temperature during past 24 hours

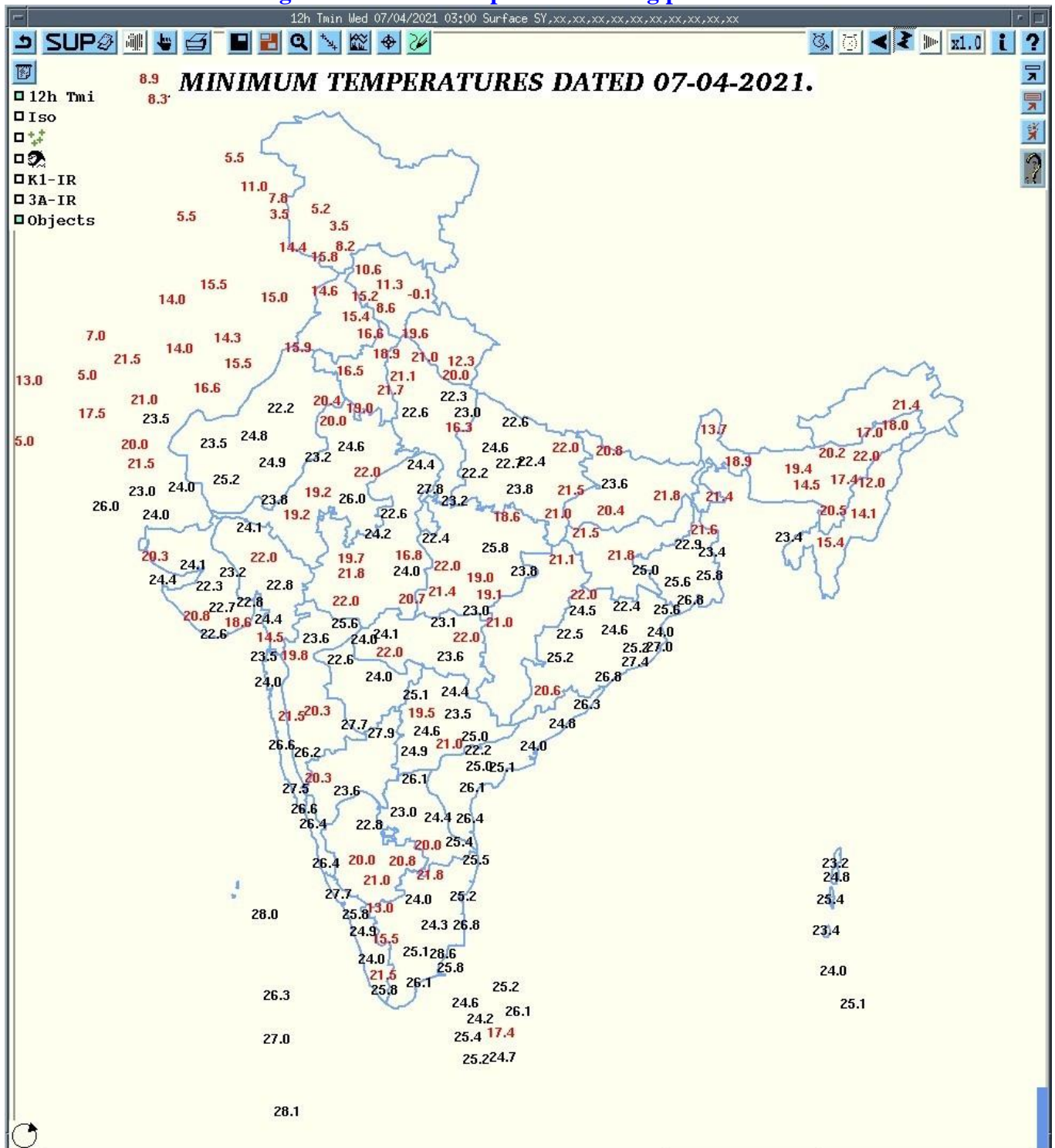


Fig. 4 : Departure from Normal of Maximum Temperatures

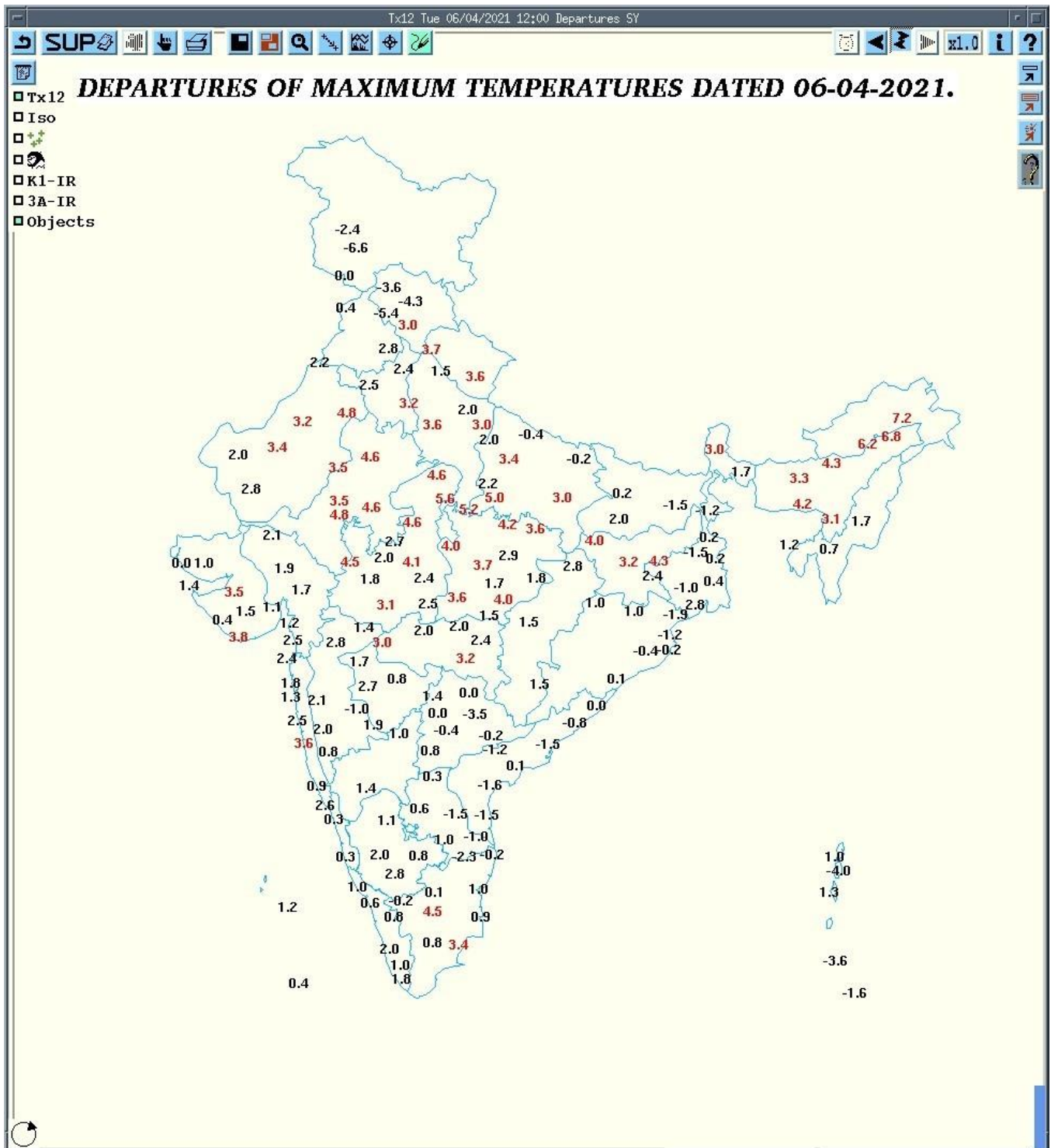
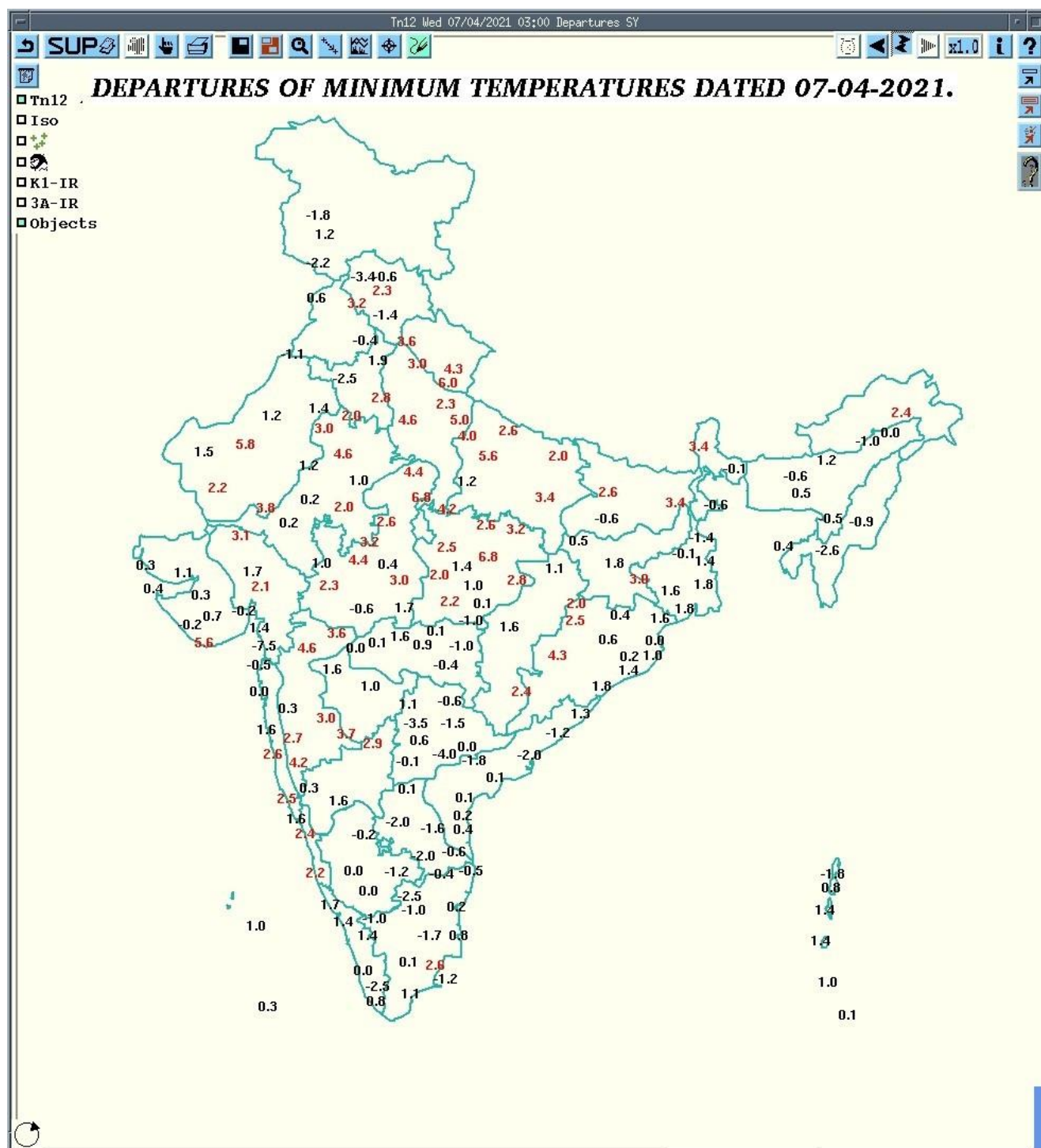
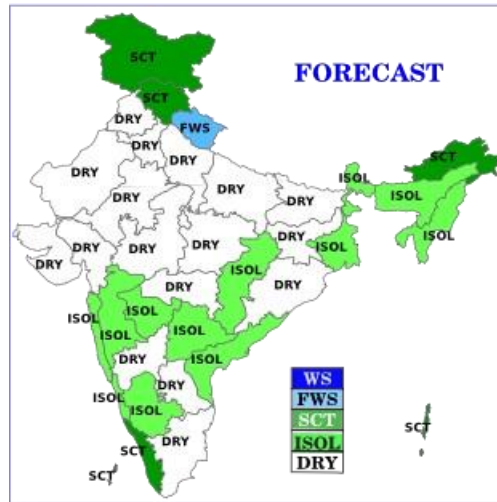


Fig. 5 : Departure from Normal of Minimum Temperatures



Wednesday 07 April 2021

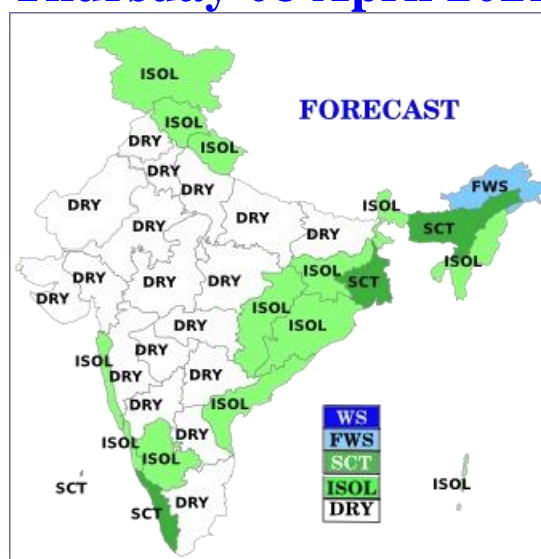


**07 April (Day 1): ♦ Thunderstorm with lightning & gusty winds** (speed reaching 40-50 kmph) very likely at isolated places over Uttarakhand; with **lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal, Assam & Meghalaya and Kerala & Mahe and with **lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Lakshadweep.

♦ **Heat Wave Conditions** very likely in isolated pockets over Madhya Pradesh, east Vidarbha, south Uttar Pradesh, East Rajasthan, Bihar and Jharkhand.

♦ **Squally weather** (wind speed reaching 40-50 kmph) very likely over south Andaman Sea.

**Thursday 08 April 2021**

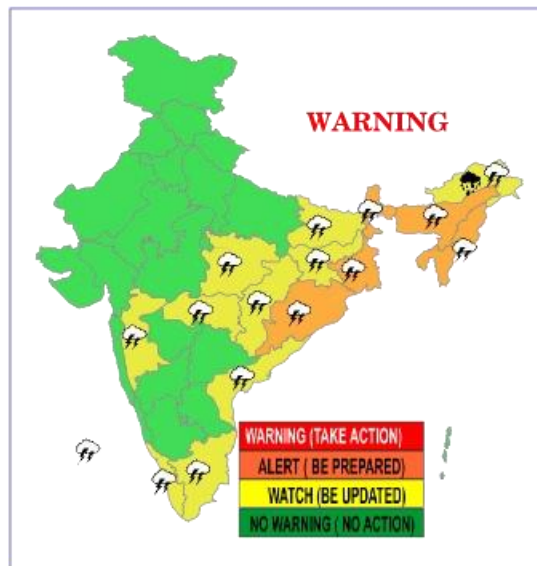
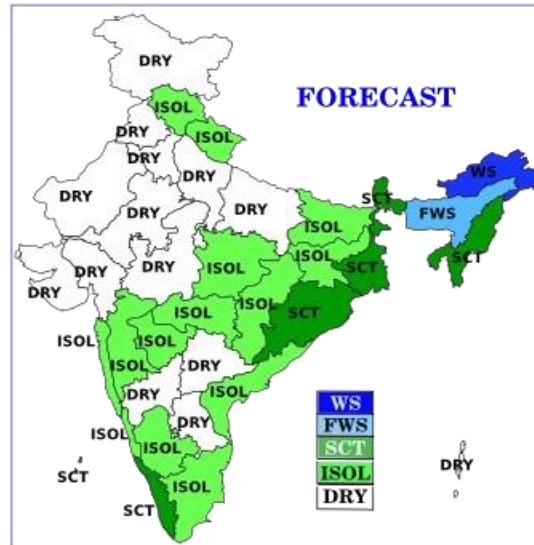


**08 April (Day 2): ♦ Thunderstorm with lightning, hail & squall** (speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal; with **lightning & squall** (speed reaching 50-60 kmph) at isolated places over Assam & Meghalaya; with **lightning & gusty winds** (speed reaching 40-50 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura; with **lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe and with **lightning** over Chhattisgarh, Odisha and Arunachal Pradesh.

♦ **Heat Wave Conditions** very likely in isolated pockets over East Madhya Pradesh and Jharkhand.



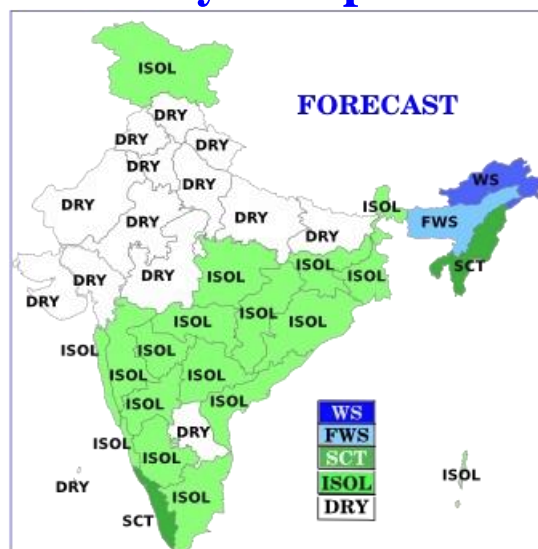
**Friday 09 April 2021**



**09 April (Day 3): ♦ Thunderstorm with lightning, hail & squall** (speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal; with **lightning & squall** (speed reaching 50-60 kmph) at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with **lightning, hail & gusty winds** (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim; with **lightning, hail & gusty winds** (speed reaching 30-40 kmph) at isolated places over Odisha; with **lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and with **lightning** over East Madhya Pradesh, Vidarbha, south Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.

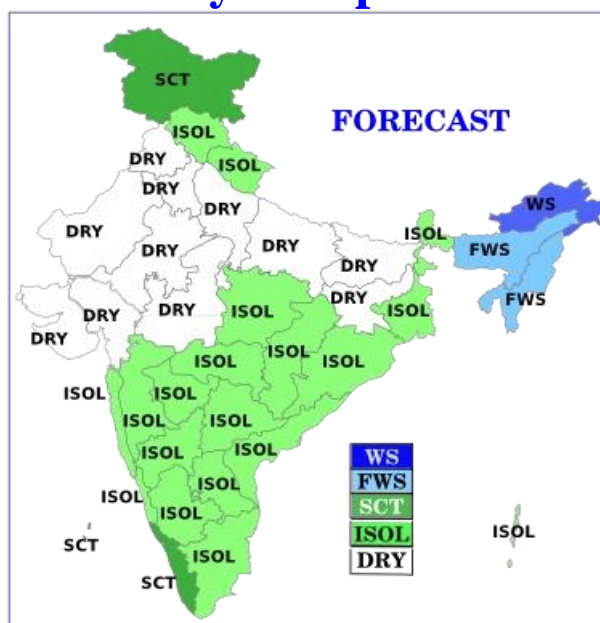
# Saturday 10 April 2021



**10 April (Day 4): ♦ Thunderstorm with lightning, hail & gusty winds** (speed reaching 30-40 kmph) likely at isolated places over Chhattisgarh; with **lightning & gusty winds** (speed reaching 40-50 kmph) at isolated places over Assam & Meghalaya; with **lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with **lightning** over East Madhya Pradesh, Vidarbha, Konkan & Goa, south Madhya Maharashtra, Marathawada and Tamilnadu, Puducherry & Karaikal.

♦ **Heavy Rainfall** likely at places over Arunachal Pradesh.

# Sunday 11 April 2021

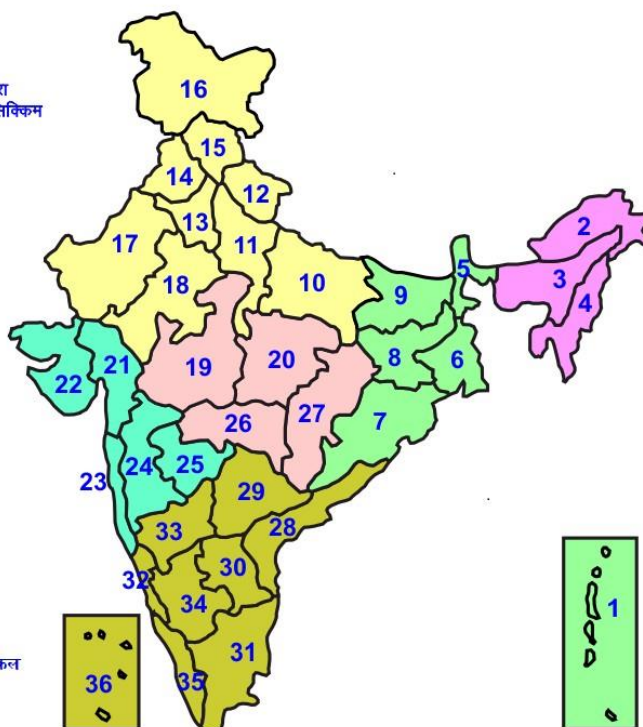


**11 April (Day 5): ♦ Thunderstorm with lightning & gusty winds** (speed reaching 40-50 kmph) likely at isolated places over Assam & Meghalaya; with **lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Chhattisgarh, Telangana and Kerala & Mahe and with **lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Madhya Pradesh, Vidarbha, Konkan & Goa, south Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

♦ **Heat Wave Conditions** likely in isolated pockets over Uttar Pradesh and Rajasthan.

## 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 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 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



## 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)