

Sunday 20 June 2021

MID-DAY

Time of Issue: 1245 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ Further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab is likely to be slow as large scale features are not favourable and the forecast wind pattern by the numerical models do not indicate any favourable condition for sustained rainfall over the region during the forecast period.
- ◆ Under the influence of a Low pressure area over southeast Uttar Pradesh & neighbourhood; fairly widespread to widespread rainfall with isolated **heavy to very heavy falls** very likely over East Uttar Pradesh & Bihar during next 24 hours and significant reduction in rainfall activity thereafter.
- ◆ Under the influence of a Western Disturbance as a trough in mid tropospheric levels and monsoonal easterlies; widespread rainfall with isolated **heavy falls** very likely over Uttarakhand during next 24 hours and significant reduction in rainfall activity thereafter.
- ◆ **Moderate to severe thunderstorms** accompanied by **frequent cloud to ground lightning** very likely over East Uttar Pradesh and Bihar during next 24 hours. This may cause injuries leading to casualties to people and animals staying outdoors.

Main Weather Observations

- ◆ **Rain/Thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at **most places** over Uttarakhand, West Bengal & Sikkim, Bihar, East Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Gujarat state, Chhattisgarh, Kerala & Mahe, Lakshadweep and Coastal & North Interior Karnataka; at **many places** over West Uttar Pradesh, Jharkhand, Vidarbha, Chhattisgarh, South Interior Karnataka; at **a few places** over Himachal Pradesh, Odisha, Madhya Maharashtra, Madhya Pradesh and at **isolated places** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Marathwada, Coastal Andhra Pradesh, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- ◆ **Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today)(8 cm or more): Pernem-19; Katihar, Agumbe-15 each; Danta, Anjar- 14 each; Gogri, Monghyr-13 each; Matheran, Rampur, Chandausi, Karkala-12 each; Colgaon, Ajamgarh, Gaganbawda, Kollur, Haridwar-11; each; Cherrapunji, Dhanvad, Mangrol, Chapra, Gaighat, Dodamarg, Sawantwadi, Manki-10 each; Madangad, Rupauli, Mahua, Williamnagar, Nalbari, Satgaon, Lonavala, Mudubidre, Tadong, Kalyanpur, Vytiri, Loharkhet, Champawat, Dharchula, Mahabaleshwar-9 each; Begusarai, Gangtok, Baranara, Samastipur, Dillighat, Kottigehara, Akbarpur, Vaibhavwadi, Bagrakote, Quepem, Mangalore, Munsiyari, Loharghat-8.
- ◆ **Heavy to very heavy rainfall** observed at isolated places over Gujarat State, Bihar, West Uttar Pradesh, Madhya Maharashtra, Coastal & South Interior Karnataka and Konkan & Goa and **heavy rainfall** at isolated places over Kerala & Mahe, West Bengal & Sikkim, Assam & Meghalaya, East Uttar Pradesh and Jharkhand.
- ◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hrs IST of today): at **isolated places** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Gangetic West Bengal, West Madhya Pradesh, Bihar, Odisha, Vidarbha, Coastal Andhra Pradesh, Saurashtra & Kutch, Coastal Karnataka and Assam & Meghalaya.
- ◆ **Maximum Temperature Departures as on 19-06-2021:** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Lakshadweep; at isolated places over Tamilnadu & Puducherry. They were **markedly below normal (-5.1°C and less)** at most places over Uttarakhand, East Uttar Pradesh and Jharkhand; at many places over Bihar, Gangetic West Bengal, West Uttar Pradesh, East Madhya Pradesh, East Rajasthan and Chhattisgarh; at a few places over Haryana, Chandigarh & Delhi, Odisha and Gujarat Region and at isolated places over Saurashtra & Kutch and Nagaland, Manipur, Mizoram & Tripura; **appreciably below normal (-3.1°C to -5.0°C)** at most places over North Interior Karnataka; at many places over Vidarbha; at a few places over West Rajasthan and **below normal (-1.6°C to -3.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim and Telangana; at a few places over Konkan & Goa and South Interior Karnataka and near normal over rest parts of the country. Yesterday, the **highest maximum temperature** of 41.3°C was reported at Ganganagar (**West Rajasthan**).
- ◆ **Minimum Temperature Departures as on 20-06-2021:** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at isolated places over Odisha, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands. They are **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Saurashtra & Kutch, East Madhya Pradesh, Telangana; **below normal (-1.6°C to -3.0°C)** at most places over Coastal Karnataka, Gujarat Region and Bihar; at many places over East Rajasthan, Chhattisgarh and Vidarbha; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Gangetic West Bengal, Tamilnadu, Puducherry & Karaikal and Nagaland, Manipur, Mizoram & Tripura and **near normal** over rest parts of the country. The lowest **minimum temperature** of 17.6°C reported at **Seoni (East Madhya Pradesh)** over the plains of the country.

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(Copies of the Bulletin @ 1077)

Meteorological Analysis (Based on 0830 hours IST)

- ◆ The northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar.
- ◆ Further advance of southwest monsoon into remaining parts of Rajasthan, West Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab is likely to be slow as large scale features are not favourable and the forecast wind pattern by the numerical models do not indicate any favourable condition for sustained rainfall over the region during the forecast period.
- ◆ The Low pressure area over southeast Uttar Pradesh & neighbourhood with the associated cyclonic circulation extending upto mid tropospheric levels persists.
- ◆ The trough from west Rajasthan to northeast Bay of Bengal now runs from northwest Rajasthan to northeast Bay of Bengal across south Haryana, center of low pressure area over southeast Uttar Pradesh & neighbourhood, north Jharkhand and Gangetic West Bengal and extends upto 1.5 km above mean sea level.
- ◆ The off shore trough at mean sea level from south Maharashtra coast to north Kerala coast persists.
- ◆ The Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 72°E to the north of Lat. 25°N persists.
- ◆ The cyclonic circulation over south Haryana & neighbourhood now lies over Haryana & neighbourhood and extends upto 1.5 km above mean sea level.
- ◆ A cyclonic circulation lies over south Gujarat & neighbourhood between 3.1 & 5.8 km above mean sea level tilting southwestwards with height.
- ◆ The cyclonic circulation over Bangladesh & neighbourhood extending upto 5.8 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over southwest Rajasthan & neighbourhood between 1.5 km & 7.6 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over southeast Rajasthan & adjoining West Madhya Pradesh between 3.1 km & 4.5 km above mean sea level has become less marked.

Weather Forecast for next 5 days * upto 0830 hours IST of 25th June, 2021

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in temperatures over most parts of Northwest India during next 2 days and gradual rise by 2-3° C thereafter.
- ◆ No significant change in temperatures over remaining parts of the country during next 5 days.

Weather Outlook for subsequent 2 days from 25th June 2021 to 27th June 2021

- ◆ Scattered to Fairly widespread rainfall likely over most parts of Northeast and East India, along the west coast and Andaman & Nicobar islands.
- ◆ Isolated rainfall over remaining parts of the country.

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Weather Warning during next 5 days *

20 June (Day 1): ♦ Heavy to Very Heavy Rainfall very likely at isolated places over East Uttar Pradesh and Bihar and **Heavy Rainfall** at isolated places over Uttarakhand, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, ghat areas of Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi

with lightning at isolated places over Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & North Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

♦ **Duststorm/Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea and **Squally Weather (speed 50-60 kmph)** over North Bay of Bengal; **(speed 50-60 kmph)** along & off Kerala-Karnataka-Goa-south Maharashtra-Gujarat coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.

21 June (Day 2): ♦ Heavy Rainfall very likely at isolated places over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Konkan & Goa Coastal Karnataka Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand and Andaman & Nicobar Islands and

with lightning at isolated places over Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Haryana, Chandigarh & Delhi, Chhattisgarh, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal.

♦ **Duststorm/Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

22 June (Day 3): ♦ Heavy Rainfall very likely at isolated places over Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over East Madhya Pradesh, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

23 June (Day 4): ♦ Heavy to very Heavy Rainfall likely at isolated places over Assam & Meghalaya and **Heavy Rainfall** at isolated places over Chhattisgarh, Gangetic West Bengal, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 40-50 kmph) likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

24 June (Day 5): ♦ Heavy Rainfall likely at isolated places over Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

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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(Circle as the National office 4870)



Table-1
5 Day Rainfall Forecast (MID-DAY)
20-June-2021

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

% Station Reporting Rainfall

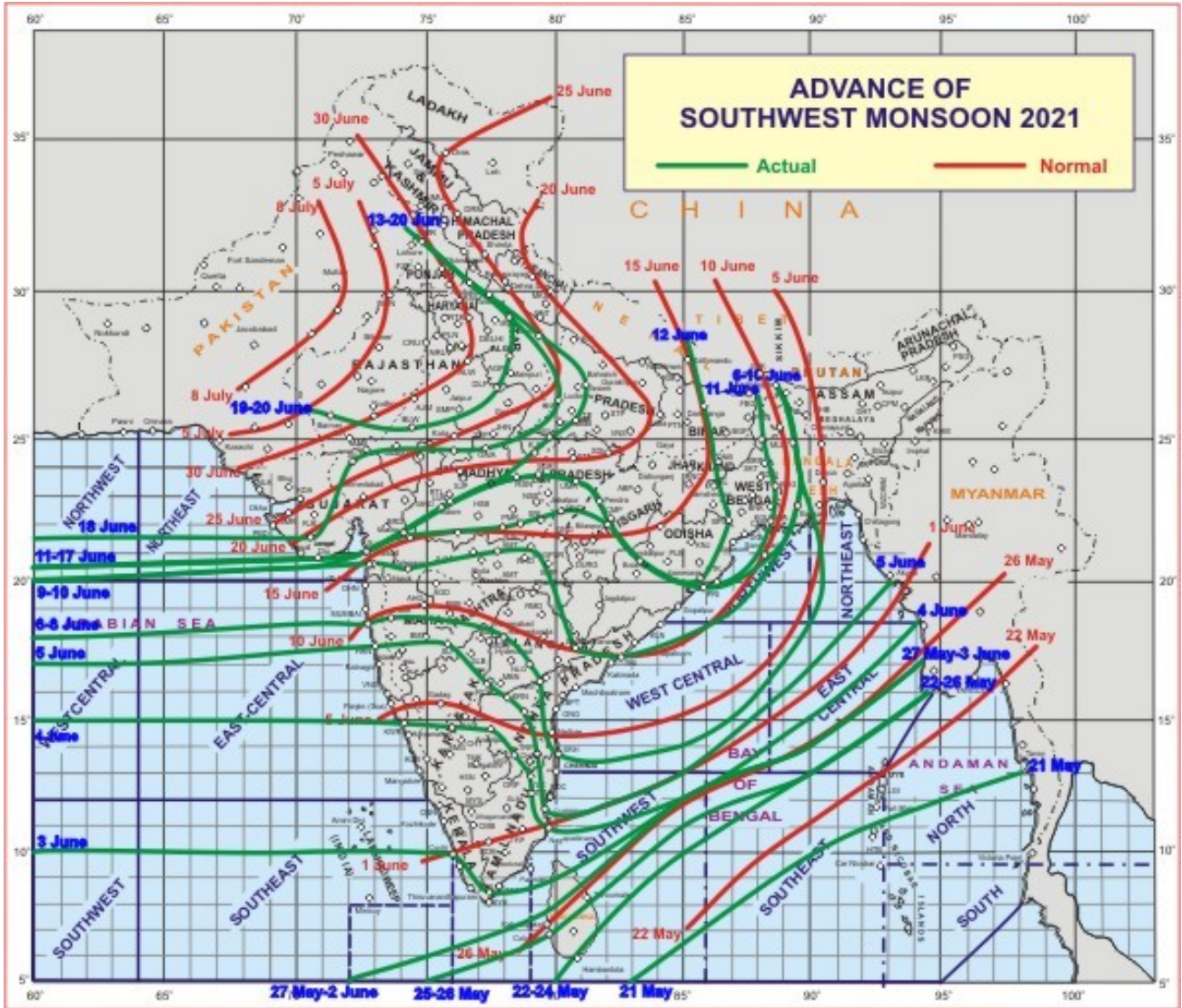
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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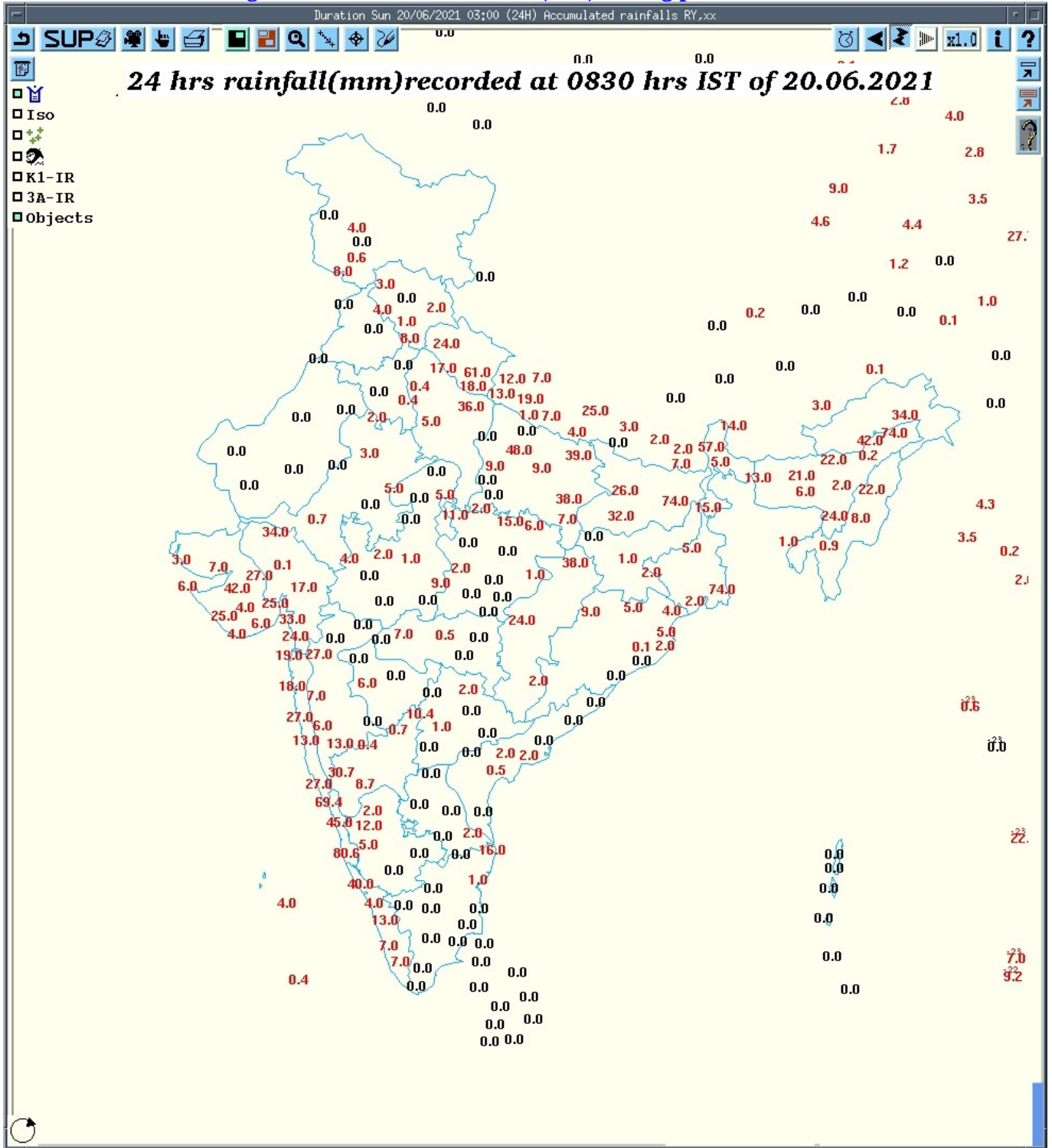
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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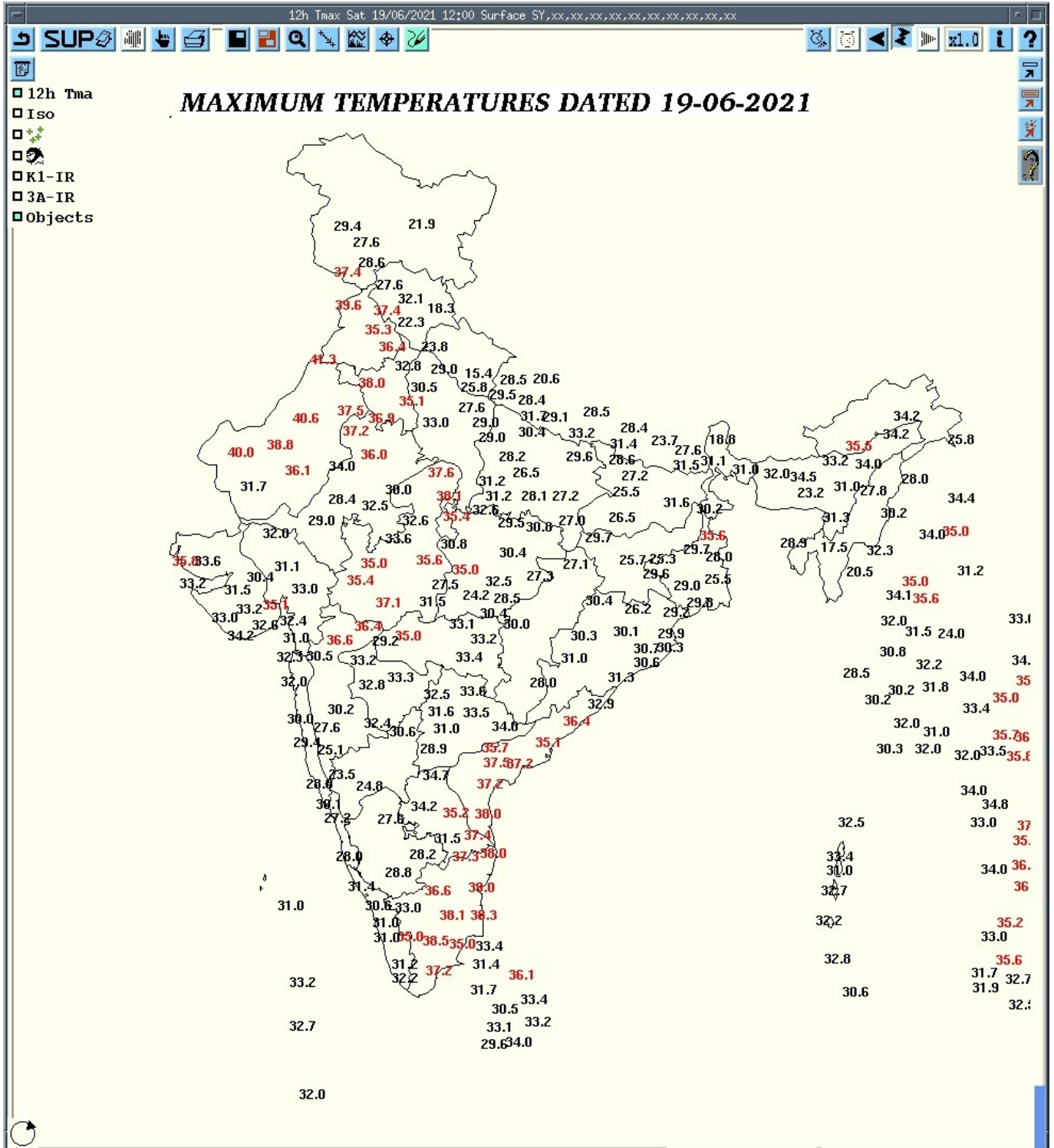
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(Created by the MetInfo team 10/7/21)



Fig. 2: Maximum Temperature during past 24 hours



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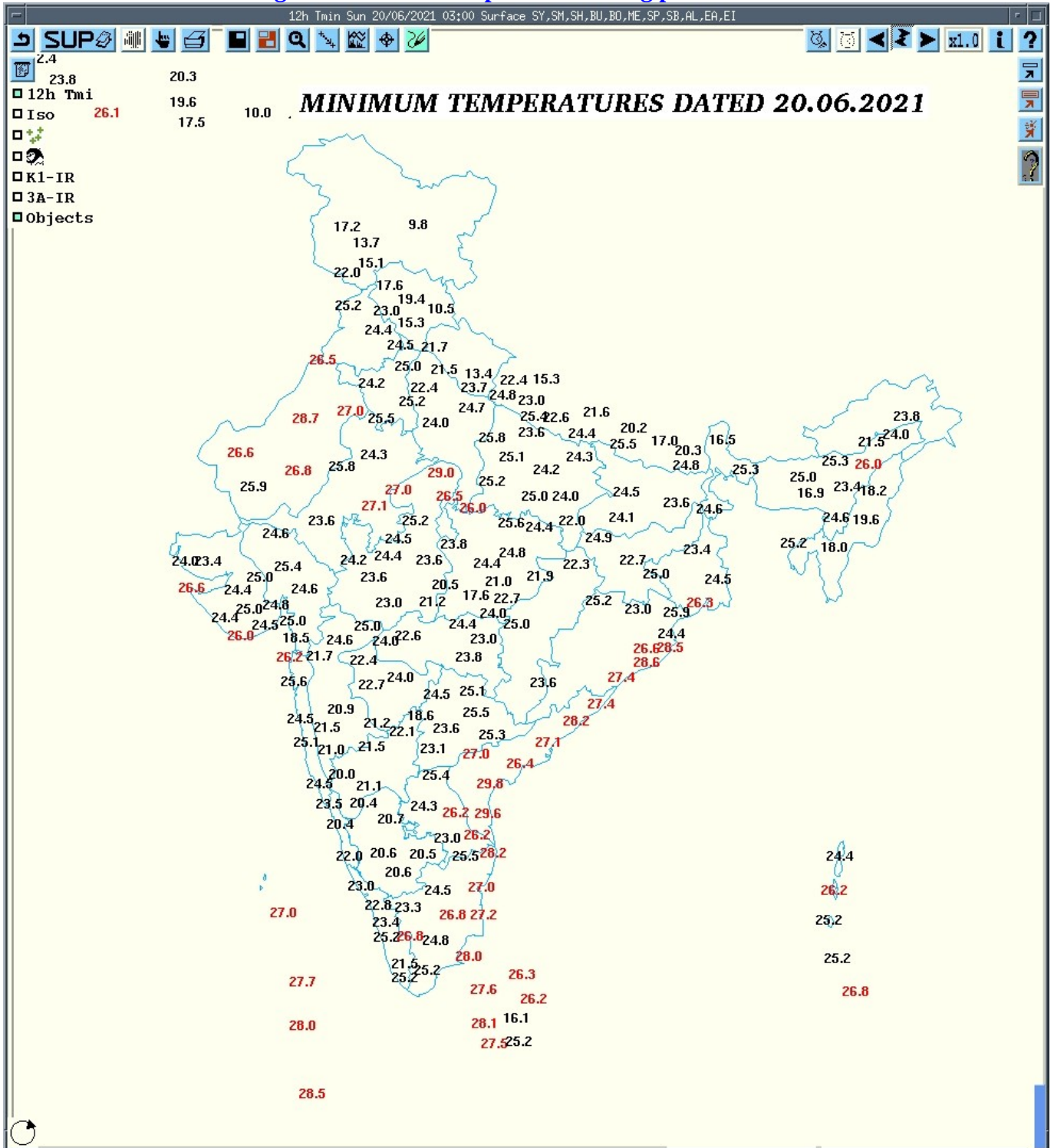
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Fig. 3: Minimum Temperature during past 24 hours



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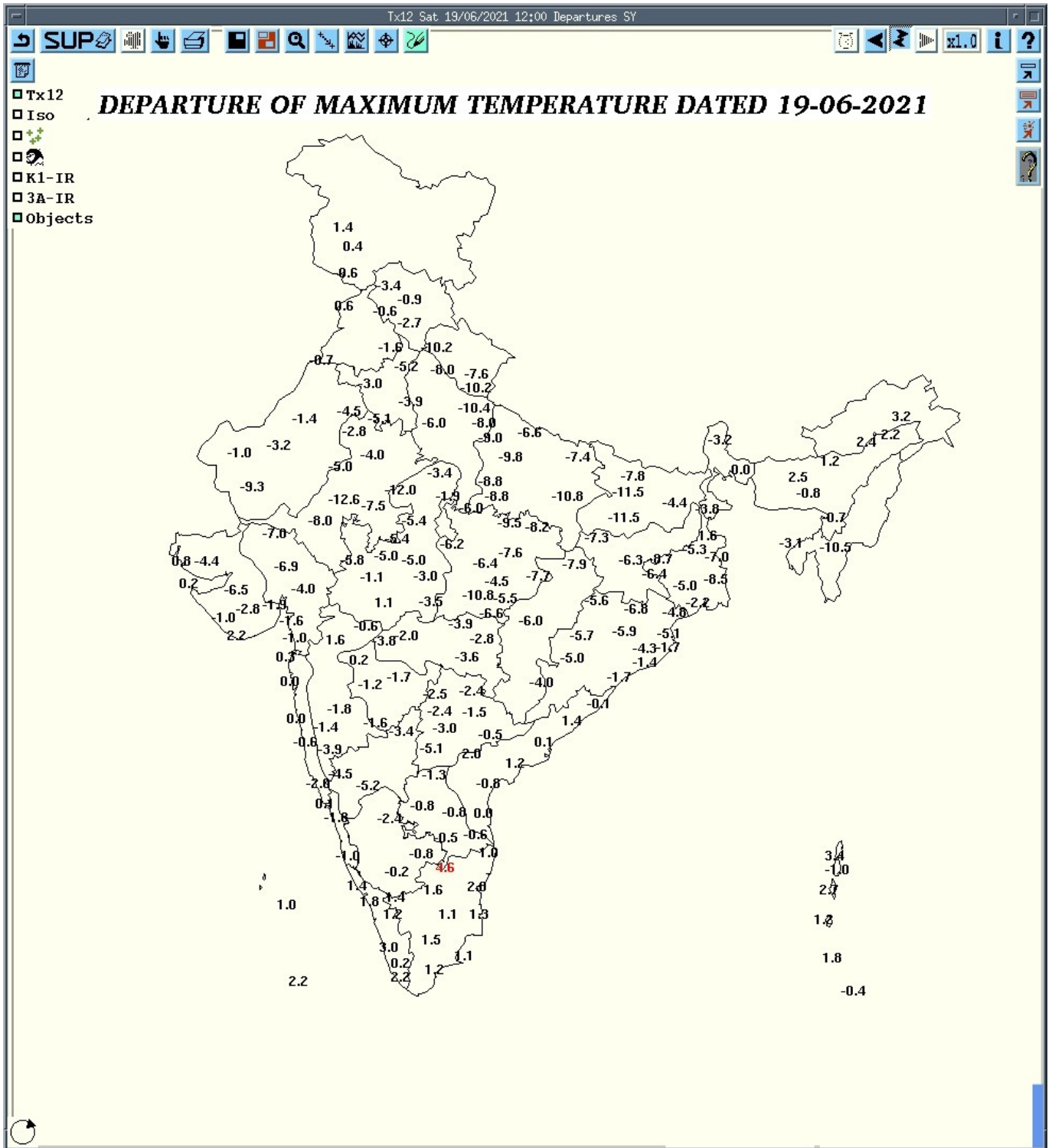
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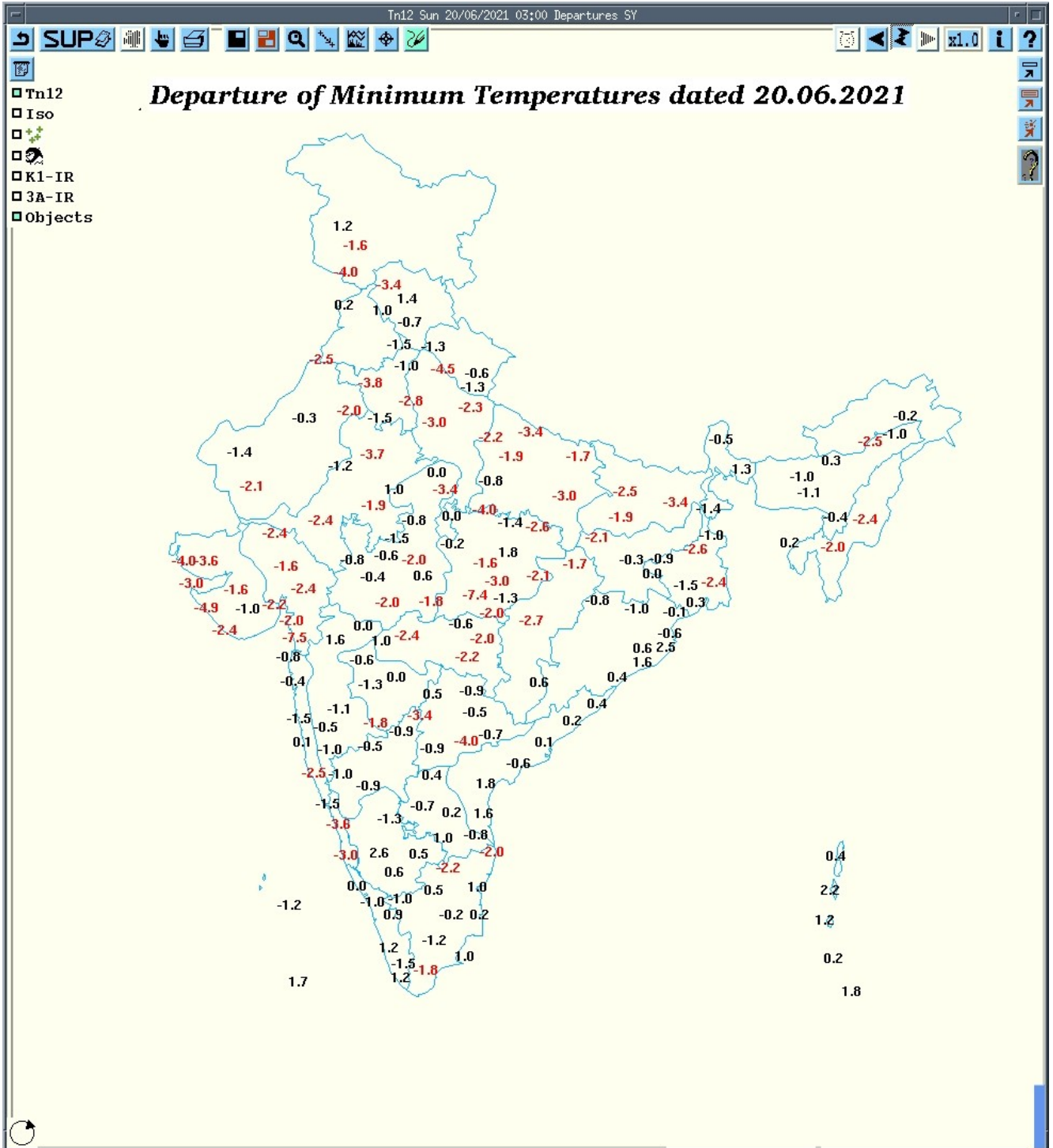
Fig. 4 : Departure from Normal of Maximum Temperatures



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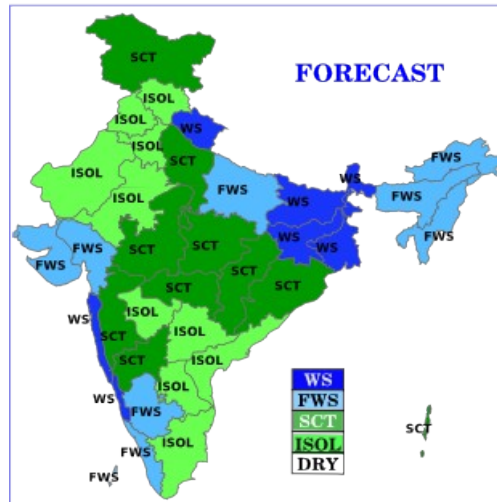


Fig. 5 : Departure from Normal of Minimum Temperatures



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Sunday 20 June 2021



20 June (Day 1): ♦ Heavy to Very Heavy Rainfall very likely at isolated places over East Uttar Pradesh and Bihar and **Heavy Rainfall** at isolated places over Uttarakhand, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, ghat areas of Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi

with lightning at isolated places over Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & North Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

♦ **Duststorm/Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea and **Squally Weather** (speed 50-60 kmph) over North Bay of Bengal; (speed 50-60 kmph) along & off Kerala-Karnataka-Goa-south Maharashtra-Gujarat coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.

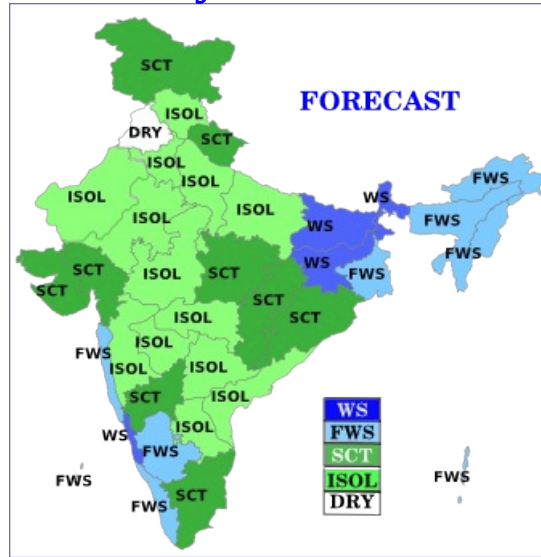
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Monday 21 June 2021



21 June (Day 2): ♦ Heavy Rainfall very likely at isolated places over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Konkan & Goa Coastal Karnataka Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand and Andaman & Nicobar Islands and

with lightning at isolated places over Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Haryana, Chandigarh & Delhi, Chhattisgarh, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal.

♦ **Duststorm/Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

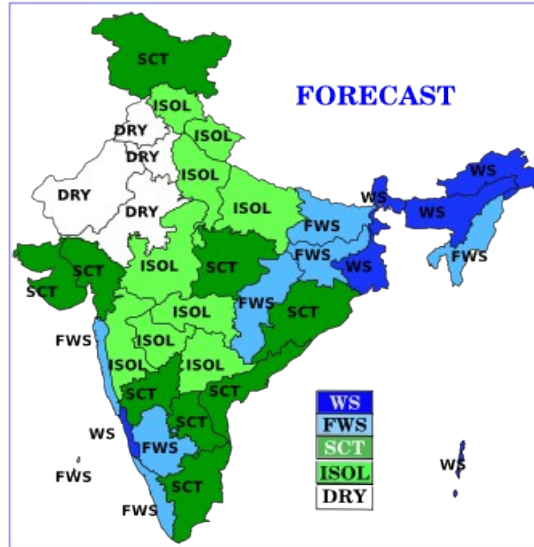
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Tuesday 22 June 2021



22 June (Day 3): ♦ Heavy Rainfall very likely at isolated places over Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over East Madhya Pradesh, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

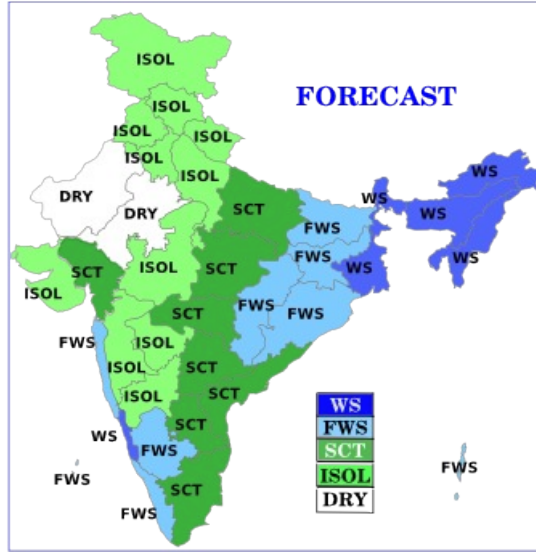
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Wednesday 23 June 2021



23 June (Day 4): ♦ **Heavy to very Heavy Rainfall** likely at isolated places over Assam & Meghalaya and **Heavy Rainfall** at isolated places over Chhattisgarh, Gangetic West Bengal, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 40-50 kmph) likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

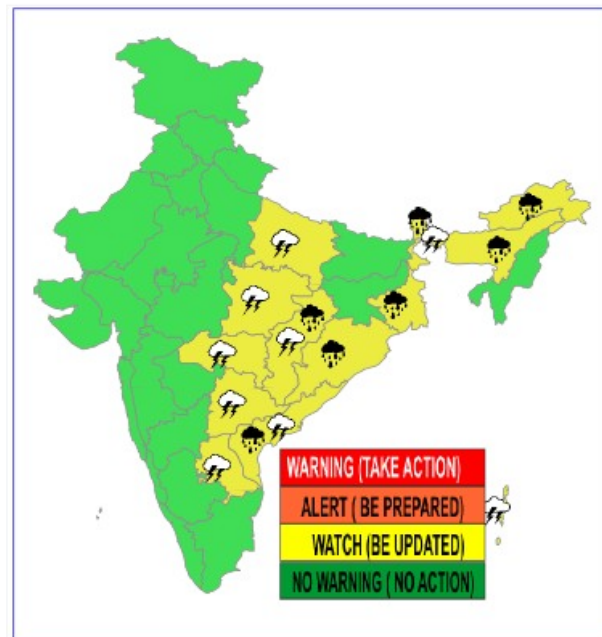
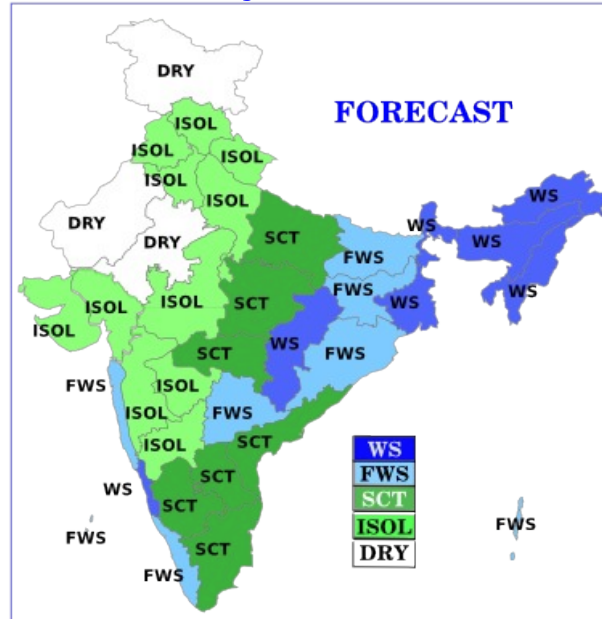
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(Circle as the Nation since 1975)

Thursday 24 June 2021



24 June (Day 5): ♦ Heavy Rainfall likely at isolated places over Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

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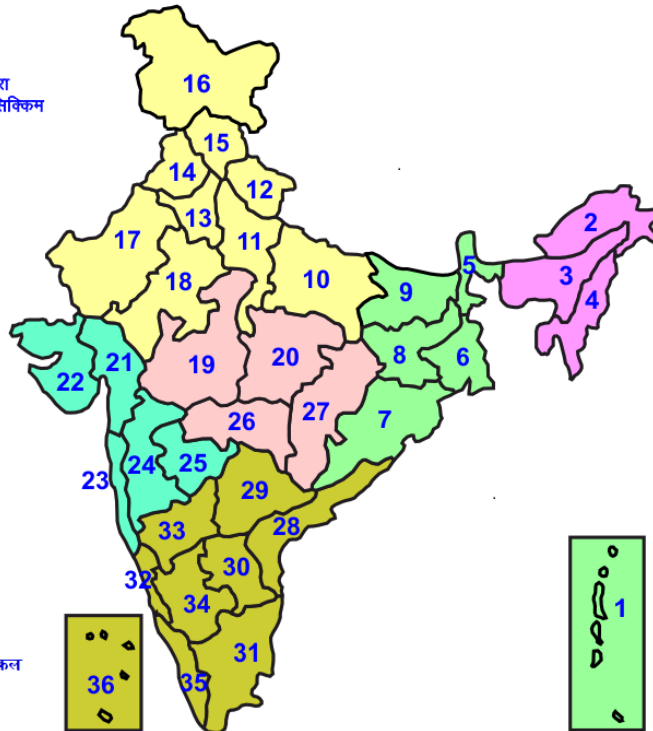
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(Copies to the Media upto 1070)

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 एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एंवम् यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् 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

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

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