

Monday 07 June 2021

MID-DAY

Time of Issue: 1245 hours IST

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

- ◆ The Northern Limit of Monsoon (NLM) continues to pass through lat. 18.0°N/ Long. 65°E, lat. 18.5°N/ Long. 70°E, Alibagh, Pune, Medak, Nalgonda, Rentachintala, Sriharikota, lat. 14°N/ Long. 85.0°E, 16°N/88°E, 20°N/90.5°E and 24.0°N/89.5°E and Bagdogra.
- ◆ A Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 11th June, 2021. Under its Influence, Southwest Monsoon is likely to advance into most parts of Odisha, West Bengal and Jharkhand and some parts of Bihar during subsequent 2 days.
- ◆ Under the influence of likely formation of Low Pressure area over North Bay of Bengal & neighbourhood:
  - (i) Fairly widespread to widespread rainfall activity very likely over most parts of East India and adjoining Central India from 10th June onwards. Isolated **heavy to very heavy rainfall** very likely over Odisha during 08th-11th; over Gangetic West Bengal on 10th & 11th; over Jharkhand on 11th and over East Madhya Pradesh, Vidarbha, Chhattisgarh on 10th & 11th. **Isolated extremely heavy falls** also very likely over Odisha on 11th June, 2021.
  - (ii) Enhanced rainfall activity likely along the West coast including Maharashtra.
- ◆ Due to strengthening of southwesterly winds and other favourable meteorological conditions; fairly widespread to widespread rainfall activity very likely over Northeastern state during next 4-5 days. Isolated **heavy rainfall** very likely over Arunachal Pradesh on 07th & 08th; over Assam & Meghalaya during 07th-10th; over Sub-Himalayan West Bengal & Sikkim during 07th-09h; over Nagaland, Manipur, Mizoram & Tripura on 07th & 08th June.
- ◆ Under the influence of the off-shore trough at mean sea level from north Maharashtra coast to north Kerala coast; isolated to fairly widespread rainfall accompanied with thunderstorm and lightning very likely over parts of south peninsular India during next 4-5 days.
- ◆ Dust raising strong surface winds (30-40 kmph) very likely to prevail over plains of Northwest India during 08th-10th June.

### Main Weather Observations

- ◆ **Rain/Thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at **most places** over Lakshadweep, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; at **many places** over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Coastal Karnataka; at **a few places** over West madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Marathwada and North Interior Karnataka; at **isolated places** over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Rajasthan, East Madhya Pradesh, Gujarat state, Bihar, Chhattisgarh, Odisha, Telangana, Rayalaseema, South Interior Karnataka, Coastal Andhra Pradesh, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- ◆ **Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) (**3 cm or more**): Matunga-14; Baksa-12; Harsul-11; Panbari, Gangtok-10 each; Buxaduar-9; Nalbari-8; Singhik, Barpeta, Hasimara, Kalyani, Kadi (Mehsana dist.)Majbat-7 each; Tadong, Malvan, Barrackpur-6 each; Cooch Behar, Alipurduar, Bagati, Chandikhol, Golpara, Aurangabad-5 each; Dahanu, Jalpaiguri, Port Blair, Tezpur, and Akola-3 each.
- ◆ **Heavy to very heavy rainfall** observed at isolated places over Assam & Meghalaya and Madhya Maharashtra and heavy rainfall at isolated places over Gujarat region, Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim.
- ◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at **isolated places** over West Bengal & Sikkim, Bihar, Odisha, Uttarakhand, Himachal Pradesh, West Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Marathwada and Coastal Andhra Pradesh & Yanam.
- ◆ **Maximum Temperature Departures as on 06-06-2021:** Maximum temperature were **appreciably above normal (3.1°C to 5.0°C)** at **many places** over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad; **above normal (1.6°C to 3.0°C)** at most places over a few places over Kerala & Mahe; at **many places** over Andaman & Nicobar Island and Gangetic West Bengal; at **a few places** over Odisha and Lakshadweep and at **isolated places** over Bihar and Saurashtra & Kutch. They were **markedly below normal (-5.1°C and more)** at **many places** over East Rajasthan and West Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at **most places** over Marathwada; at **many places** over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh and Madhya Maharashtra; at **a few places** over Sub-Himalayan West Bengal & Sikkim, Chhattisgarh, Telangana and Rayalaseema; at **isolated places** over Vidarbha; **below normal (-1.6°C to -3.0°C)** at **most places** over Haryana, Chandigarh & Delhi; at **many places** over Gujarat Region; at **a few places** over South Interior Karnataka and Coastal Andhra Pradesh & Yanam and at **isolated places** over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of **42.4°C** was reported at Titlagarh (**Odisha**) over the country.
- ◆ **Minimum Temperature Departures as on 07-06-2021:** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh and Bihar; **above normal (1.6°C to 3.0°C)** at isolated places over Andaman & Nicobar Islands, East Uttar Pradesh, Odisha, Gangetic West Bengal, Kerala and West Rajasthan. They are **below normal (-1.6°C to -3.0°C)** at many places over West Madhya Pradesh, Konkan & Goa and Marathwada; at a few places over East Rajasthan; at isolated places over Haryana, Chandigarh & Delhi; Telangana, Vidarbha, Coastal Andhra Pradesh & Yanam and East Madhya Pradesh; at a few places over West Madhya Pradesh, Marathwada, Telangana, North Interior Karnataka, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest of the country. The lowest minimum temperature of **19.0°C** reported at Medak (Telangana) and Belgaum(North Interior Karnataka) over the plains of the country.

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

- ◆ The Northern Limit of Monsoon (NLM) continues to pass through lat. 18.0°N/ Long. 65°E, lat. 18.5°N/ Long. 70°E, Alibagh, Pune, Medak, Nalgonda, Rentachintala, Sriharikota, lat. 14°N/ Long. 85.0°E, 16°N/88°E, 20°N/90.5°E and 24.0°N/89.5°E and Bagdogra.
- ◆ A Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 11th June, 2021. Under its Influence, Southwest Monsoon is likely to advance into most parts of Odisha, West Bengal and Jharkhand and some parts of Bihar during subsequent 2 days.
- ◆ A trough at mean sea level runs from East Uttar Pradesh to Northeast Bay of Bengal across south Bihar and Gangetic West Bengal.
- ◆ The cyclonic circulation over Sub-Himalayan West Bengal & neighbourhood extending upto 1.5 km above mean sea level has become less marked. However, the trough aloft between 2.1 km & 3.1 km above mean sea level now runs roughly along Long. 92°E to the north of Lat. 23°N.
- ◆ The off-shore trough at mean sea level from north Maharashtra coast to north Kerala coast persists.
- ◆ A cyclonic circulation lies over Southwest Rajasthan & neighbourhood at 3.1 km above mean sea level with trough aloft with its axis at 5.8 km above mean sea level roughly along Long. 78°E to the north of Lat. 26°N.
- ◆ A cyclonic circulation lies over Central Pakistan and extends upto 1.5 km above mean sea level.
- ◆ The Western Disturbance as a trough between 4.5 km & 7.6 km above mean sea level with its axis at 5.8 km above mean sea level roughly along Long. 78°E to the north of Lat. 26°N has moved away east-northeastwards.
- ◆ The cyclonic circulation over northwest Rajasthan at 3.1 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over Southwest Madhya Pradesh & neighbourhood at 3.1 km above mean sea level has become less marked.
- ◆ The trough from the above cyclonic circulation over Southwest Madhya Pradesh & neighbourhood to north Tamilnadu across Marathwada, Telangana, Rayalaseema at 3.1 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over Konkan & Goa at 0.9 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over Northeast Arabian Sea off south Gujarat coast at 4.5 km above mean sea level has become less marked.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 12th June, 2021

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Maximum temperature likely to rise by 3-4°C over most parts of Northwest India during next 3 days and no significant change thereafter.
- ◆ No significant change in maximum temperature over most parts of East India during next 3 days and fall by 2-4°C thereafter.
- ◆ No significant change in maximum temperature over rest parts of the country during next 4-5 days.

### Weather Outlook for subsequent 2 days from 12th June 2021 to 14th June 2021

- ◆ Fairly widespread to widespread rainfall with heavy to heavy falls at isolated places likely over parts of Central, East & Northeast India and along West coast.
- ◆ Scattered to fairly widespread rainfall with isolated heavy falls likely over parts of North India.
- ◆ Isolated to scattered rainfall/thunderstorms likely over remaining parts of the country.

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## Weather Warning during next 5 days \*

**07 June (Day 1): ♦ Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places very likely over East Rajasthan and Madhya Pradesh and **with lightning** at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall** at isolated places very likely over Assam & Meghalaya and **Heavy Rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) very likely over Central & South Arabian Sea and Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

**08 June (Day 2): ♦ Thunderstorm with lightning & squall** (speed reaching 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over East Rajasthan and Bihar and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and **Heavy Rainfall** at isolated places over Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) very likely over Central & South Arabian Sea; Central & Southwest Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

**09 June (Day 3): ♦ Thunderstorm with lightning & squall** (speed reaching 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar and Jharkhand and **with lightning** at isolated places over West Madhya Pradesh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Heavy Rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya and Telangana.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) very likely over Central & South Arabian Sea; North Arabian Sea, along & off Gujarat coast; Central & Southwest Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

**10 June (Day 4): ♦ Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand and Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over West Madhya Pradesh, Gangetic West Bengal, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall** at isolated places likely over Odisha and **Heavy Rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Konkan & Goa, Telangana and Coastal Karnataka.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) likely over Central, South & North Arabian Sea; along & off Kerala-Karnataka-Maharashtra coast, Lakshadweep area; Central, North & Southwest Bay of Bengal, along & off Andhra Pradesh coast and Andaman Sea. Fishermen are advised not to venture into these areas.

**11 June (Day 5): ♦ Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over West Madhya Pradesh, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places likely over Odisha; **Heavy to Very Heavy Rainfall** at isolated places over Chhattisgarh and Konkan & Goa and **Heavy Rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) likely over Central, South & North Arabian Sea; along & off Kerala-Karnataka-Maharashtra coast, Lakshadweep area; Central & North Bay of Bengal and along & off West Bengal-Odisha-Andhra Pradesh coast. 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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**Table-1**  
**5 Day Rainfall Forecast (MID-DAY)**  
**07-June-2021**

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

**% Station Reporting Rainfall**

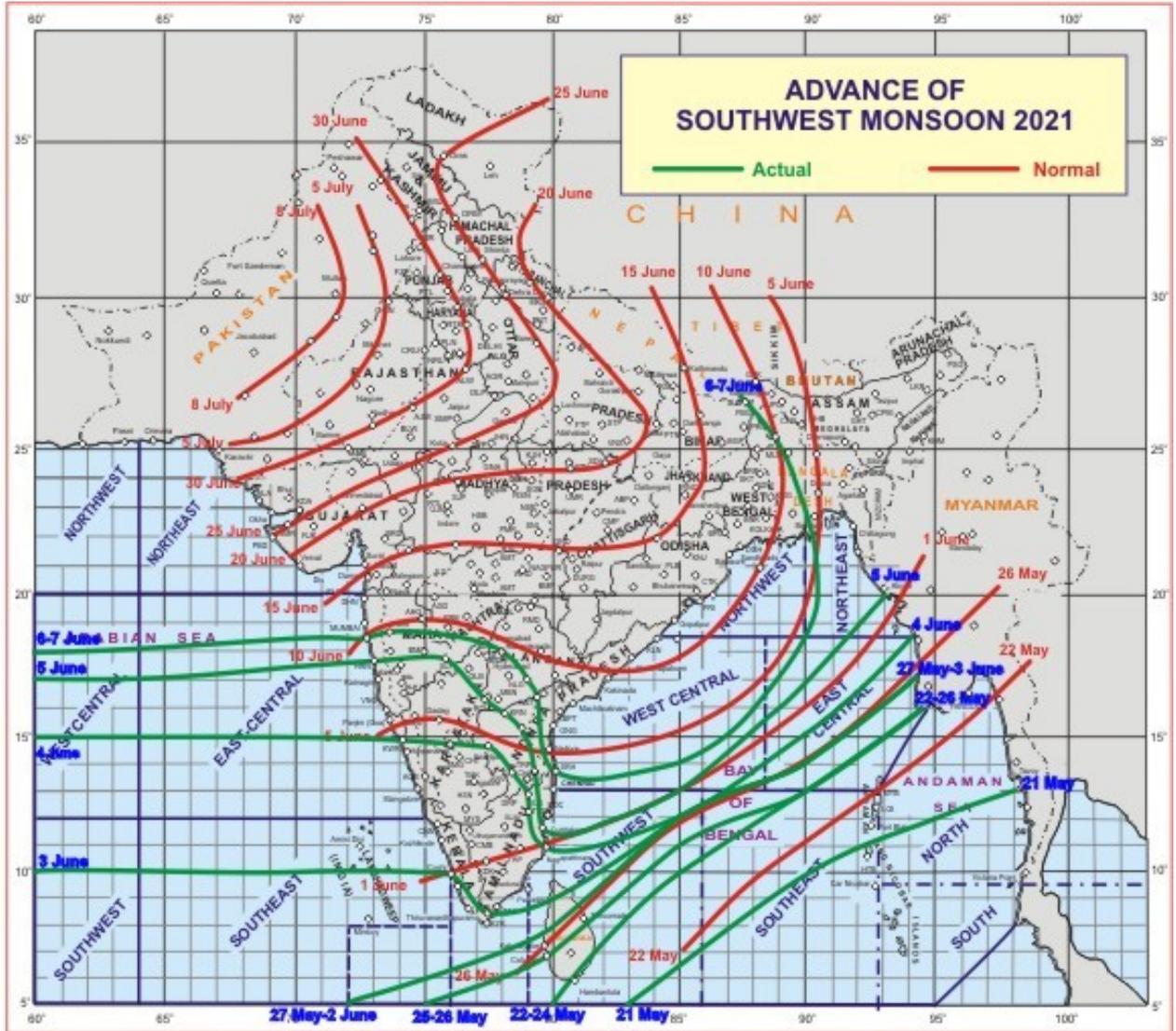
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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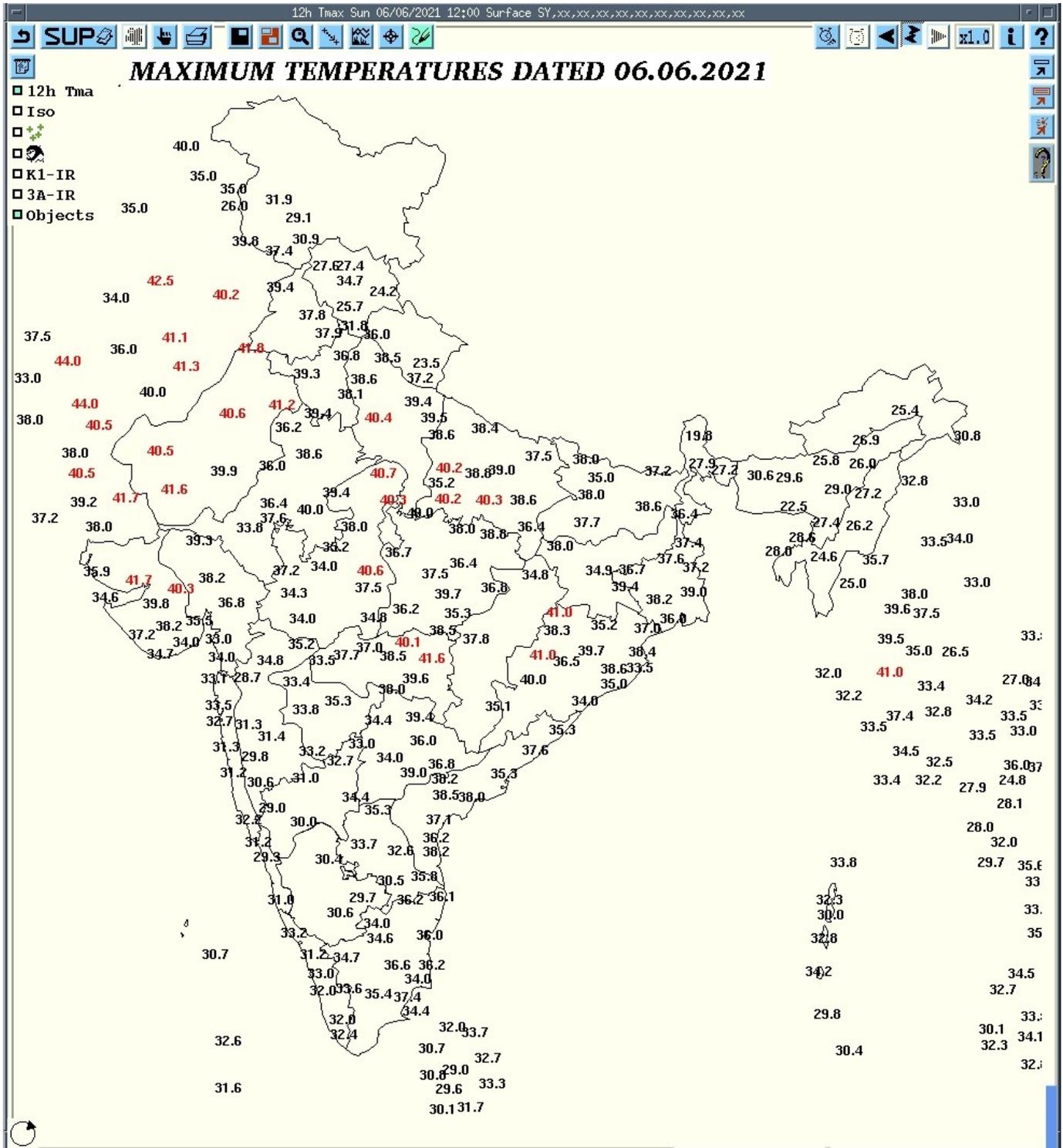
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Fig. 2: Maximum Temperature during past 24 hours



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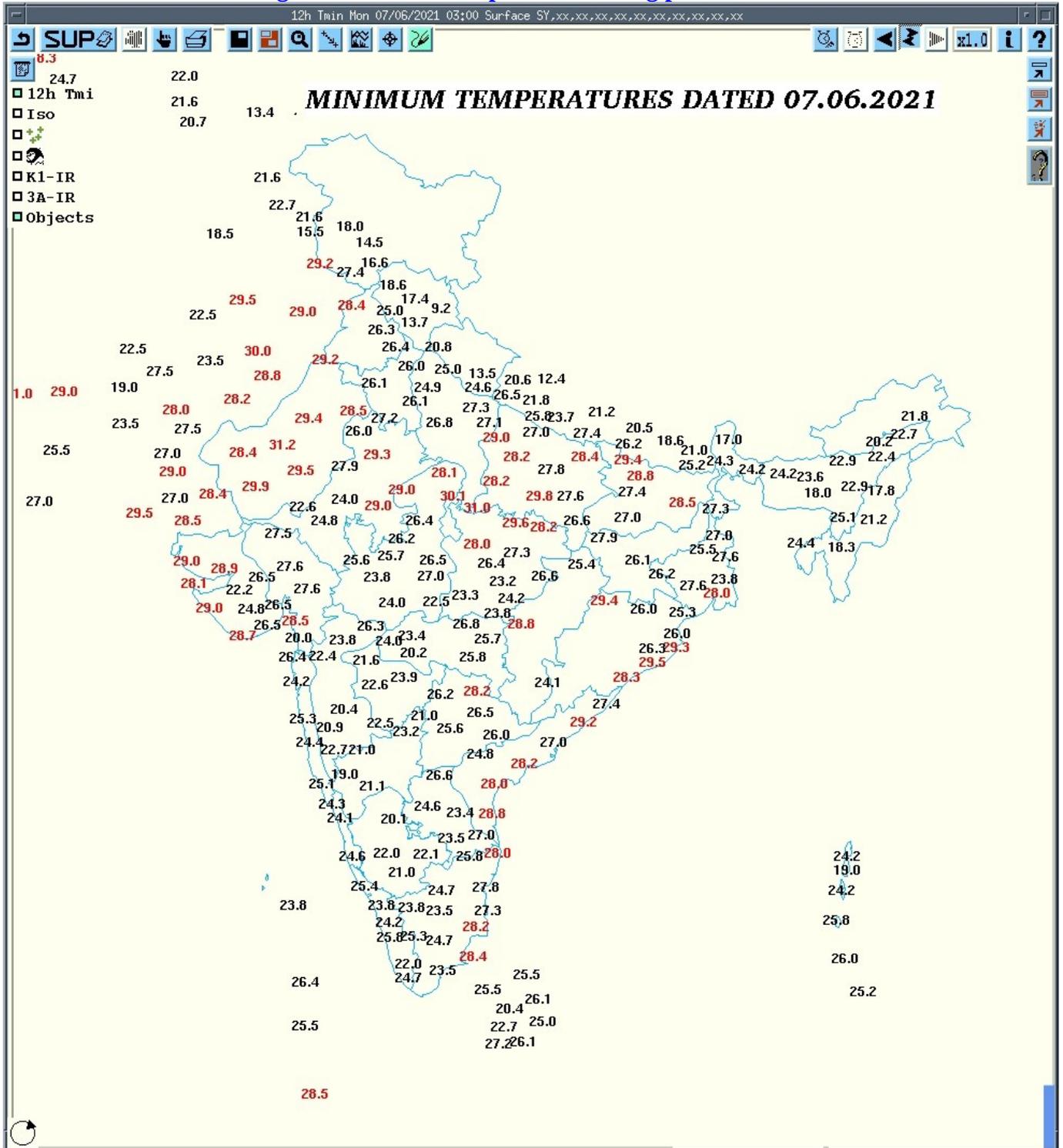
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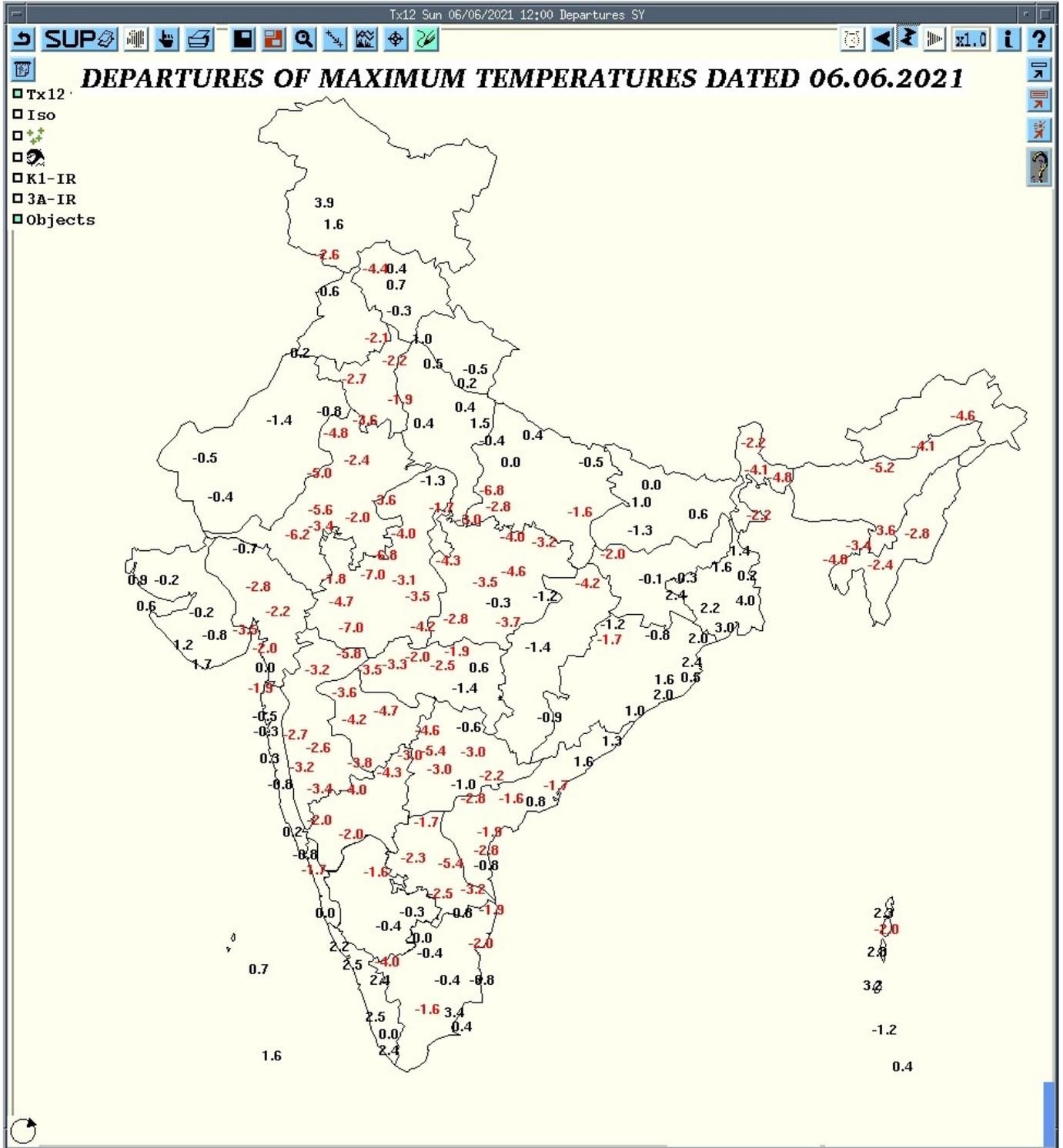
Fig. 3: Minimum Temperature during past 24 hours



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(Copies to the Meteorologist (GPO))



Fig. 4 : Departure from Normal of Maximum Temperatures



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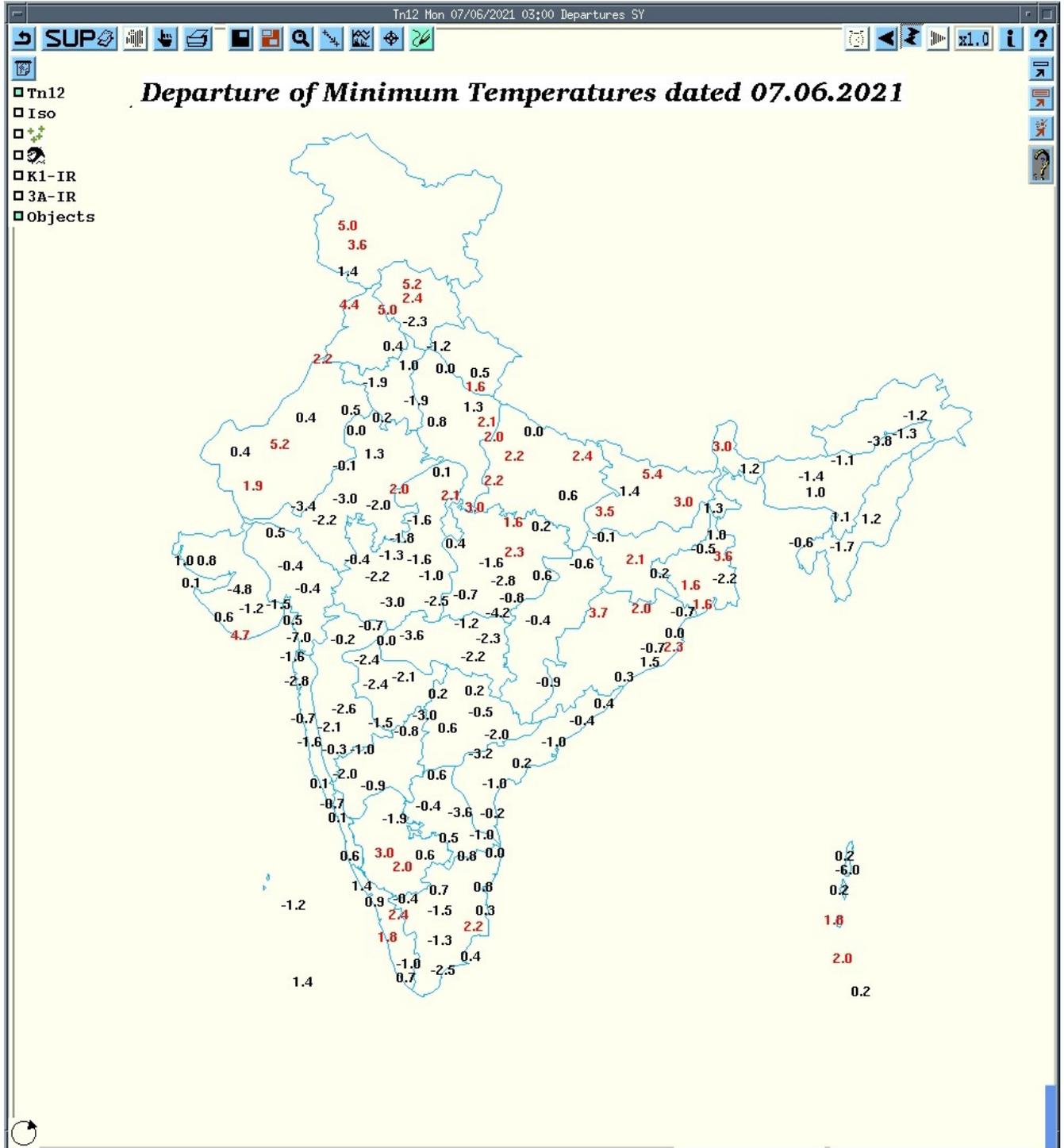
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(Created by the MetInfo app 1977)

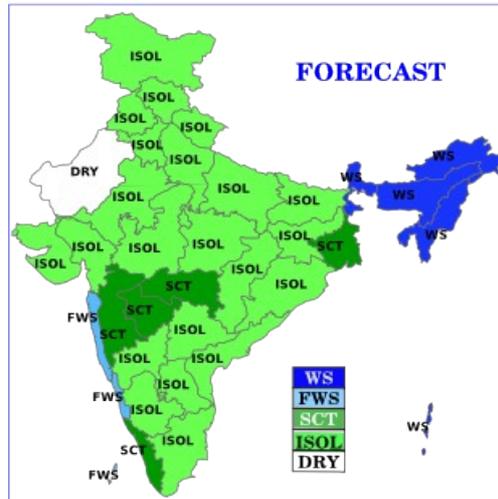


Fig. 5 : Departure from Normal of Minimum Temperatures



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## Monday 07 June 2021



**07 June (Day 1): ♦ Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places very likely over East Rajasthan and Madhya Pradesh and **with lightning** at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall** at isolated places very likely over Assam & Meghalaya and **Heavy Rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) very likely over Central & South Arabian Sea and Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

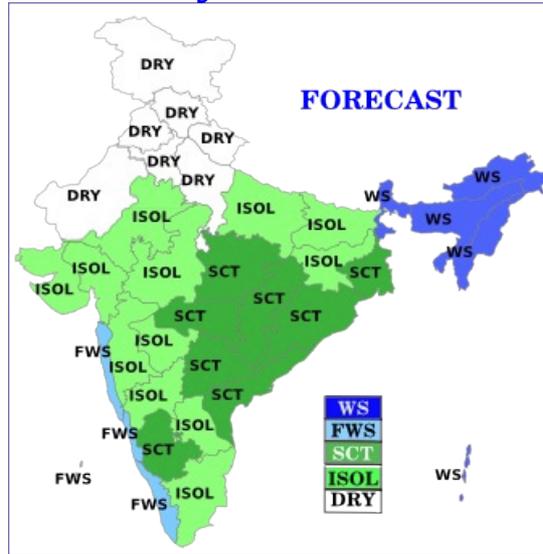
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## Tuesday 08 June 2021



**08 June (Day 2): ♦ Thunderstorm with lightning & squall** (speed reaching 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over East Rajasthan and Bihar and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and **Heavy Rainfall** at isolated places over Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) very likely over Central & South Arabian Sea; Central & Southwest Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

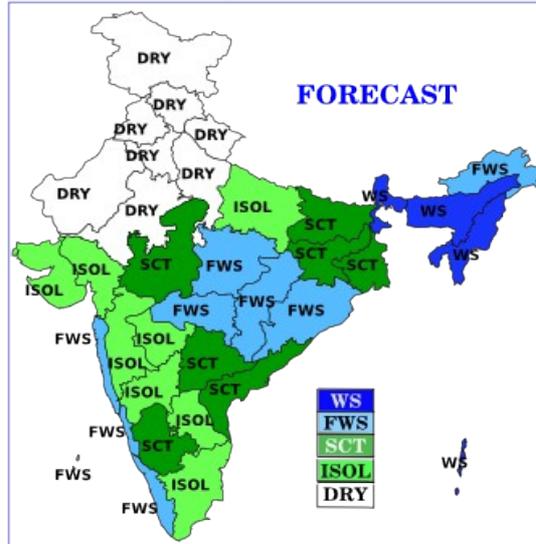
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## Wednesday 09 June 2021



**09 June (Day 3):** ♦ **Thunderstorm with lightning & squall** (speed reaching 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar and Jharkhand and **with lightning** at isolated places over West Madhya Pradesh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Heavy Rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya and Telangana.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) very likely over Central & South Arabian Sea; North Arabian Sea, along & off Gujarat coast; Central & Southwest Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

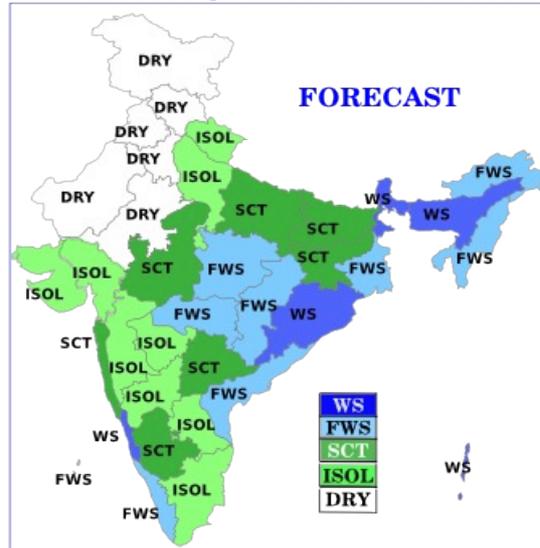
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## Thursday 10 June 2021



**10 June (Day 4): ♦ Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand and Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over West Madhya Pradesh, Gangetic West Bengal, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall** at isolated places likely over Odisha and **Heavy Rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Konkan & Goa, Telangana and Coastal Karnataka.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) likely over Central, South & North Arabian Sea; along & off Kerala-Karnataka-Maharashtra coast, Lakshadweep area; Central, North & Southwest Bay of Bengal, along & off Andhra Pradesh coast and Andaman Sea. Fishermen are advised not to venture into these areas.

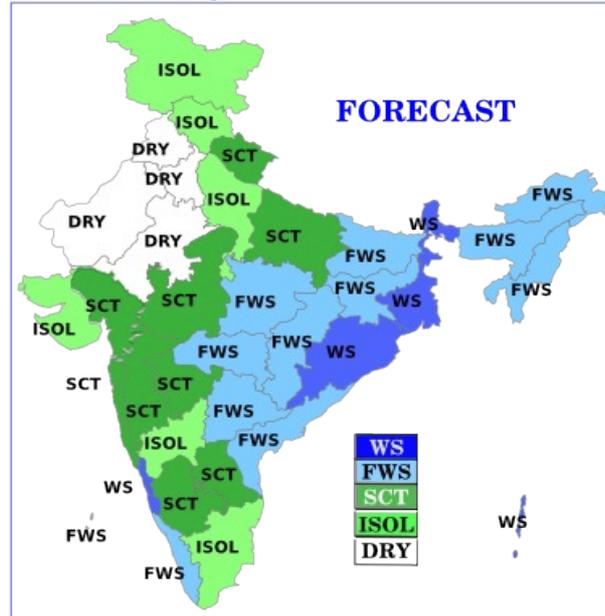
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## Friday 11 June 2021



**11 June (Day 5): ♦ Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over West Madhya Pradesh, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places likely over Odisha; **Heavy to Very Heavy Rainfall** at isolated places over Chhattisgarh and Konkan & Goa and **Heavy Rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong Winds** (speed 40-50 kmph gusting to 60 kmph) likely over Central, South & North Arabian Sea; along & off Kerala-Karnataka-Maharashtra coast, Lakshadweep area; Central & North Bay of Bengal and along & off West Bengal-Odisha-Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

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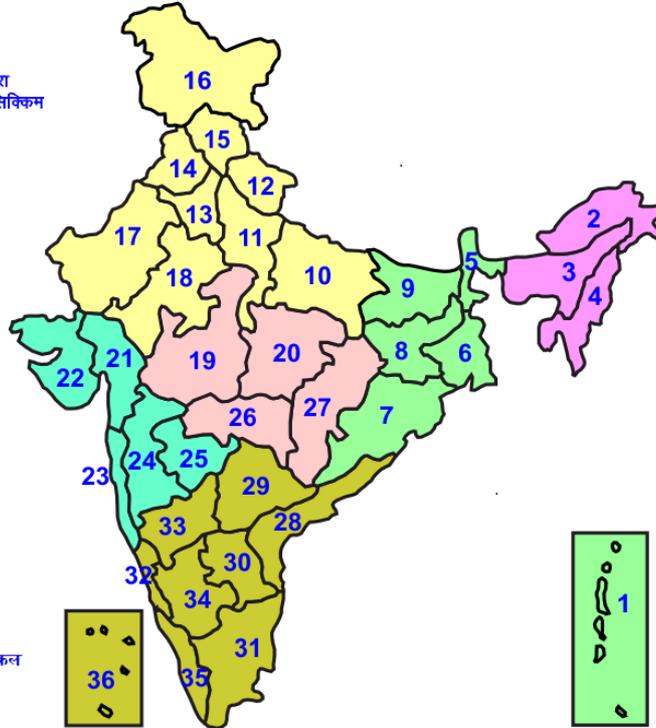
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## LEGENDS

- 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)

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