



Saturday 10 September 2022

MORNING

Time of Issue: 0815 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The monsoon trough runs south of its normal position. It is likely to remain so during next 4-5 days.
- ◆ The **Low Pressure Area** lies over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts with the associated cyclonic circulation extending upto mid-tropospheric levels. It is very likely to become more marked over Northwest & adjoining Westcentral Bay of Bengal off south Odisha-north Andhra Pradesh coasts during next 24 hours.
- ◆ A shear zone runs roughly along Lat.15°N over south Peninsular India in middle tropospheric levels. It is gradually shift northwards during next 3-4 days.
- ◆ A trough runs from south Konkan to the Low Pressure Area over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts in lower tropospheric levels.
- ◆ Under the influence of the above systems:
  - o Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Rayalaseema & South Interior Karnataka on 09th; Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe during 10th-11th; Telangana during 10th-12th and over Coastal Karnataka during next 5 days. Isolated **very heavy rainfall** also likely over Coastal Andhra Pradesh & Yanam & Telangana on 10th. Isolated **extremely heavy rainfall** also likely over Coastal Andhra Pradesh & Yanam on 10th September, 2022.
  - o Fairly widespread/widespread rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Gangetic West Bengal and Saurashtra & Kutch during 10th-13th; Vidarbha & Jharkhand during 11th-13th; Sub-Himalayan West Bengal during 12th-14th; Madhya Pradesh & Bihar on 12th & 13th and over Marathwada, Chhattisgarh, Gujarat Region, Odisha, Konkan & Goa and Madhya Maharashtra during next 5 days. Isolated **very heavy rainfall** also likely over Odisha on 10th & 11th; Gangetic West Bengal on 11th & 12th; Gujarat Region during 11th-14th, Southwest Madhya Pradesh on 14th and over Madhya Maharashtra and Konkan & Goa during next 5 days.
  - o Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Assam & Meghalaya during 10th-14th and over Nagaland, Manipur, Mizoram & Tripura during 12th-14th September, 2022.
  - o Fairly widespread to widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Uttarakhand during next 5 days.
  - o **Subdued** rainfall activity likely to continue over most parts of Northwest India during next 5 days.

Main Weather Observations

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◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Telangana, Coastal Karnataka; at many places over Marathwada, Coastal Andhra Pradesh & Yanam, Odisha, Chhattisgarh and Kerala & Mahe; at a few places over Madhya Maharashtra, Konkan & Goa, North Interior Karnataka and Gangetic West Bengal and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Gujarat State, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and Lakshadweep.

◆ **Heavy Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Nil.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Tuni-4; Bidar, Hanamkonda, Nal gonda, Valprai and Narsapur -3 each, Daman, Belgaum, Jagdalpur, Machilipatnam, Canning, Kakinada and Palakkad-2 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Rajasthan, north Madhya Pradesh, Gujarat State, Bihar, Odisha, Chhattisgarh, Konkan & Goa, Marathwada, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and Tripura.

◆ **Minimum Temperature Departures (as on 09-09-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and West Madhya Pradesh and at isolated places over Saurashtra & Kutch and Bihar; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Gangetic West Bengal, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Rajasthan, Gujarat Region, Vidarbha and Madhya Maharashtra and at a few places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Odisha, South Interior Karnataka and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.6°C was reported at Fatehgarh (East Uttar Pradesh Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 09-09-2022):** Maximum temperatures are Markedly above normal(5.1 or more) at isolated places over Gujarat State; appreciably above normal (3.1°C to 5.0°C) at many places over Punjab, West Rajasthan and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh and Gangetic West Bengal and at isolated places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Bihar, Jharkhand and Sub-Himalayan West Bengal & Sikkim; at many places over Haryana, Chandigarh & Delhi and Uttar Pradesh; at a few places over Madhya Maharashtra and Vidarbha and at isolated places over Tamilnadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at a few places over Rayalaseema and Kerala & Mahe and at isolated places over North Interior Karnataka and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.0°C was reported at Churu (West Rajasthan) over the plains of the country.

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

- ◆ The **Low Pressure Area** over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts with the associated cyclonic circulation extending upto mid-tropospheric levels persists. It is very likely to become more marked over Northwest & adjoining Westcentral Bay of Bengal off south Odisha-north Andhra Pradesh coasts during next 24 hours.
- ◆ The **monsoon trough** at mean sea level now passes through Jaisalmer, Udaipur, Indore, Akola, Jagdalpur and thence east-southeastwards to centre of **Low Pressure Area** over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts.
- ◆ The trough from south Konkan to the **Low Pressure Area** over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts across North Interior Karnataka & south Telangana extending upto 1.5 km above mean sea level persists.
- ◆ The shear zone roughly along Lat.15°N over South Peninsular India between 3.1 km & 7.6 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 15th September, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over the country during next 5 days.

### Weather Outlook for subsequent 2 days During 15th September-17th September, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over West Coast, Central & East India. Isolated heavy to very heavy falls also likely Gujarat Region, Uttarakhand, Tripura & Meghalaya.
- ◆ Isolated to scattered light/moderate rainfall activity likely over rest parts of the country.

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## Weather Warning during next 5 days \*

**10 Sept (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places** very likely over Coastal Andhra Pradesh & Yanam; **Heavy to very heavy rainfall** at isolated places very likely over south Odisha, Konkan & Goa, Madhya Maharashtra and Telangana and **heavy rainfall** at isolated places over Uttarakhand, south Chhattisgarh, north Odisha, Gangetic West Bengal, Assam & Meghalaya, south Gujarat State, Marathwada, Coastal & North Interior Karnataka & Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Karnataka, Goa, south Maharashtra coasts, east-central Arabian Sea, north Gujarat coast adjoining northeast Arabian Sea, west-central and adjoining east-central Bay of Bengal, adjoining south Bay of Bengal, north Andhra Pradesh, Odisha, West Bengal coasts, adjoining west-central and northwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea till off Karnataka, Maharashtra coasts, Lakshadweep area, Gulf of Mannar, south Tamil Nadu coast, off south Sri Lanka coast, southwest and adjoining southeast Bay of Bengal, central parts of central Bay of Bengal. Fishermen are advised not to venture into these seas.

**11 Sept (Day 2): ♦ Heavy to very heavy rainfall** at a few places very likely over Konkan & Goa and at isolated places over Gangetic West Bengal, Odisha, Gujarat region and Madhya Maharashtra and **heavy rainfall** at isolated places over Uttarakhand, Vidarbha, Chhattisgarh, Jharkhand, Assam & Meghalaya, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** at isolated places very likely over Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Goa, south Maharashtra coasts to east-central Arabian Sea, north Gujarat coast adjoining northeast Arabian Sea, northwest and adjoining northeast Bay of Bengal, adjoining central Bay of Bengal, Odisha, West Bengal coasts, adjoining northwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea till off Karnataka, Goa, Maharashtra coasts, Gulf of Mannar, south Tamil Nadu coast, off south Sri Lanka coast, southwest and adjoining southeast Bay of Bengal, west-central and adjoining east-central Bay of Bengal, northwest Bay of Bengal, Odisha, West Bengal coasts. Fishermen are advised not to venture into these seas.

**12 Sept (Day 3): ♦ Heavy to very heavy rainfall** at a few places likely over Konkan & Goa and at isolated places over Gangetic West Bengal, Gujarat Region and ghat areas of Madhya Maharashtra and **heavy rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Telangana, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra coast to east-central Arabian Sea, Gujarat coast adjoining northeast Arabian Sea, northwest and adjoining northeast Bay of Bengal, adjoining central Bay of Bengal, along and off Odisha, West Bengal coasts, adjoining northwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea till Karnataka, Goa, Maharashtra coasts, Gulf of Mannar, south Tamil Nadu coast, off southeast Sri Lanka coast, west-central and adjoining northwest Bay of Bengal, northwest Bay of Bengal, Odisha, West Bengal coasts, adjoining northwest Bay of Bengal. Fishermen are advised not to venture into these seas.

**13 Sept (Day 4): ♦ Heavy to very heavy rainfall** at a few places likely over Konkan & Goa and at isolated places over Gujarat Region and ghat areas of Madhya Maharashtra and **heavy rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra, Gujarat coasts, east-central Arabian Sea, adjoining northeast Arabian Sea, northwest and adjoining northeast Bay of Bengal, adjoining central Bay of Bengal, Odisha, West Bengal coasts. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea, Odisha, West Bengal coasts. Fishermen are advised not to venture into these seas.

**14 Sept (Day 5): ♦ Heavy to very heavy rainfall** at isolated places likely over Konkan & Goa, Gujarat Region, ghat areas of Madhya Maharashtra, southwest Madhya Pradesh & southeast Rajasthan and **heavy rainfall** at isolated places over Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra, Gujarat coasts, east-central Arabian Sea, adjoining northeast Arabian Sea, northwest and adjoining northeast Bay of Bengal, adjoining central Bay of Bengal, Odisha, West Bengal coasts. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea, Odisha, West Bengal coasts. Fishermen are advised not to venture into these seas.

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**Table-1**  
**5 Day Rainfall Forecast (MORNING)**  
**10-September-2022**

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

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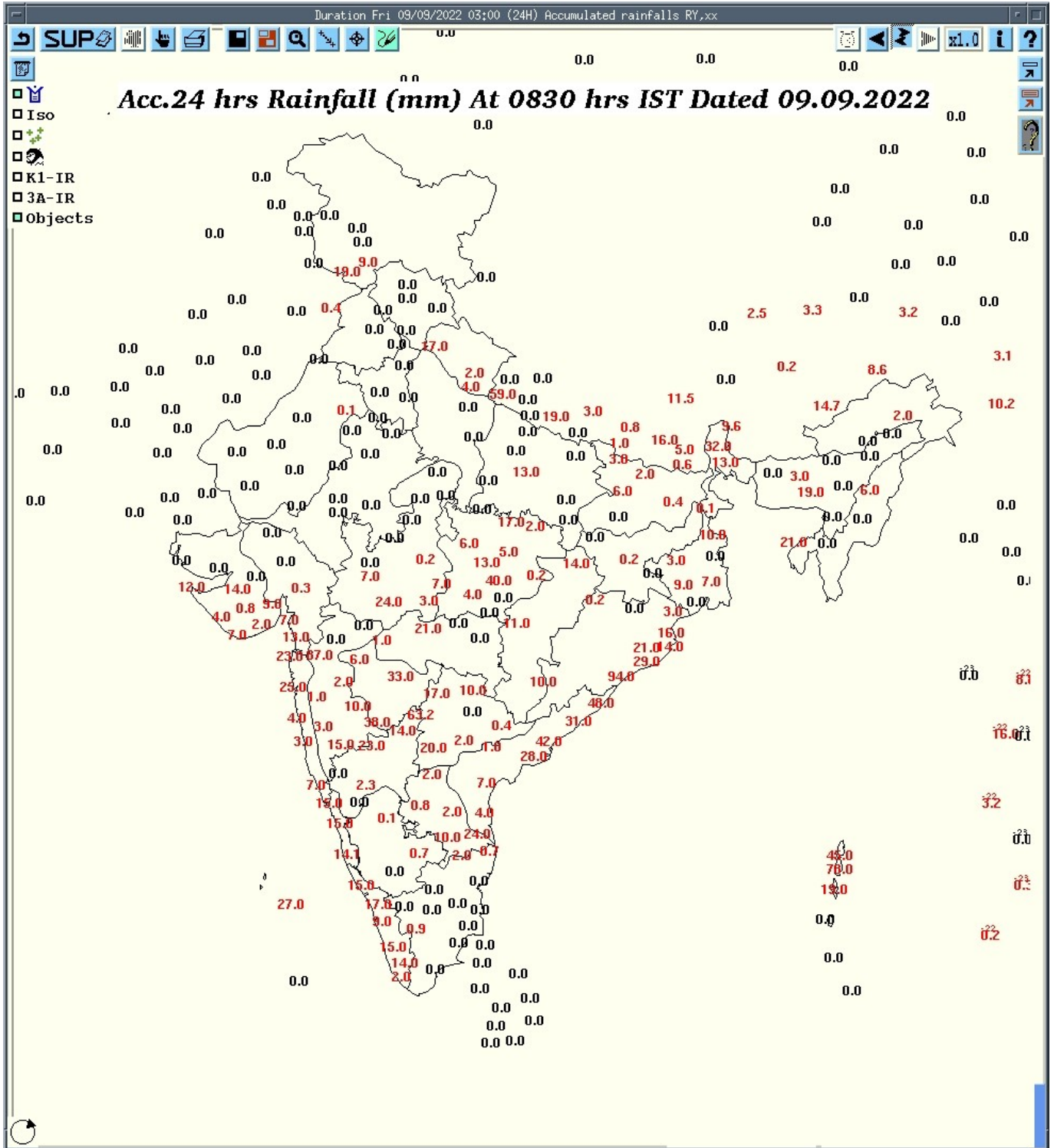
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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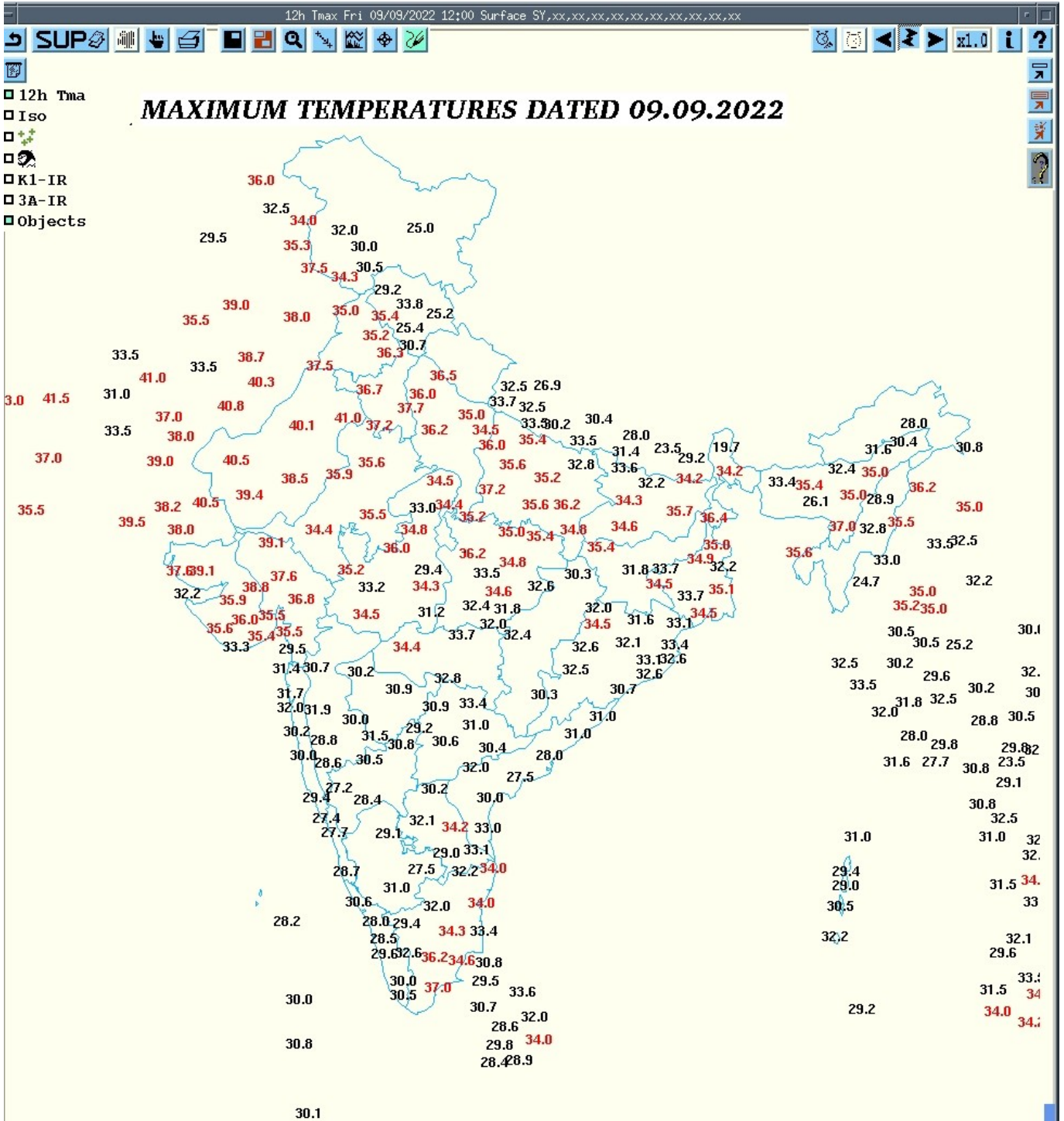
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(Created by the MetInfo@IMD)



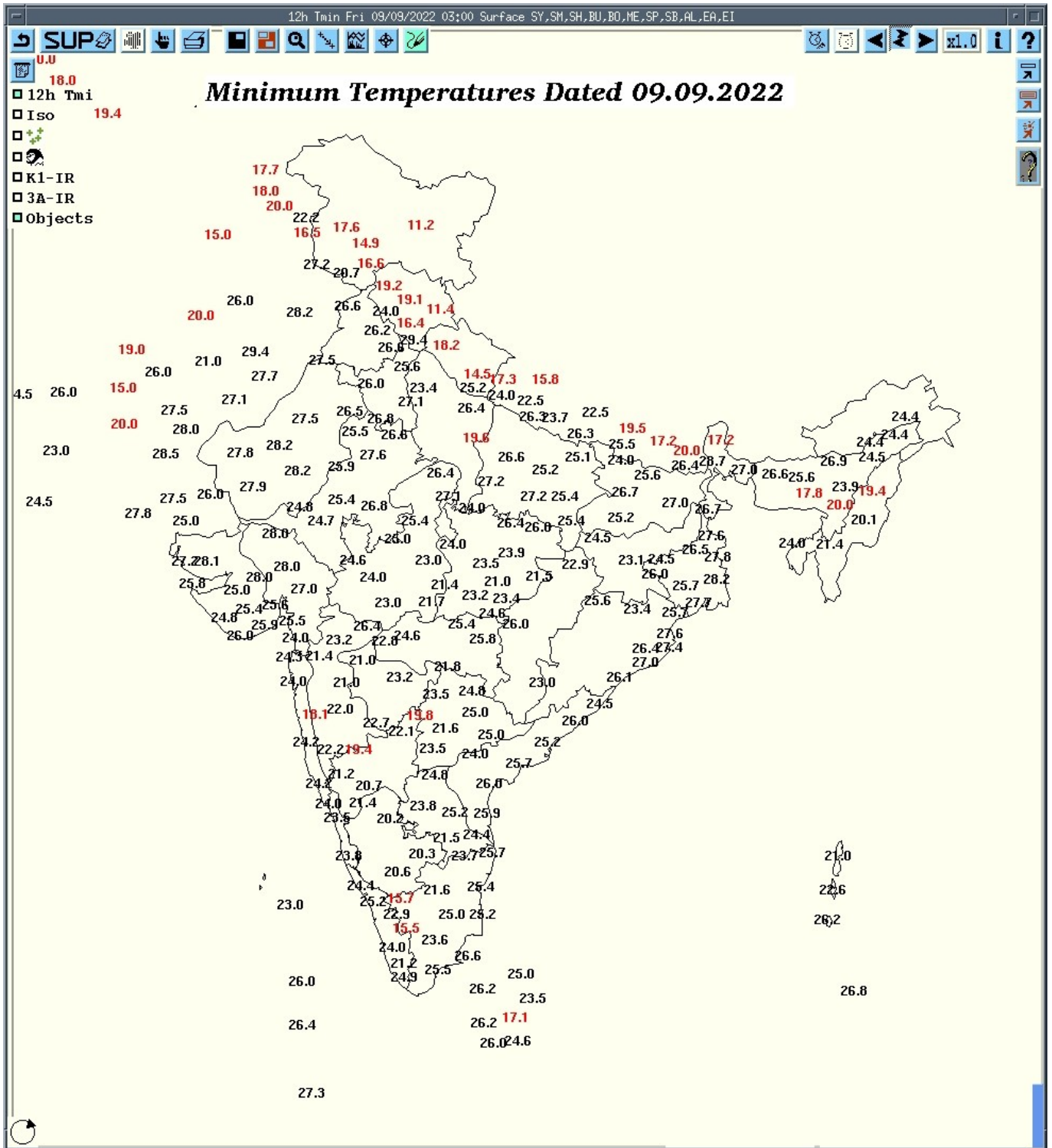
Fig. 2: Maximum Temperature during past 24 hours



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Fig. 3: Minimum Temperature during past 24 hours



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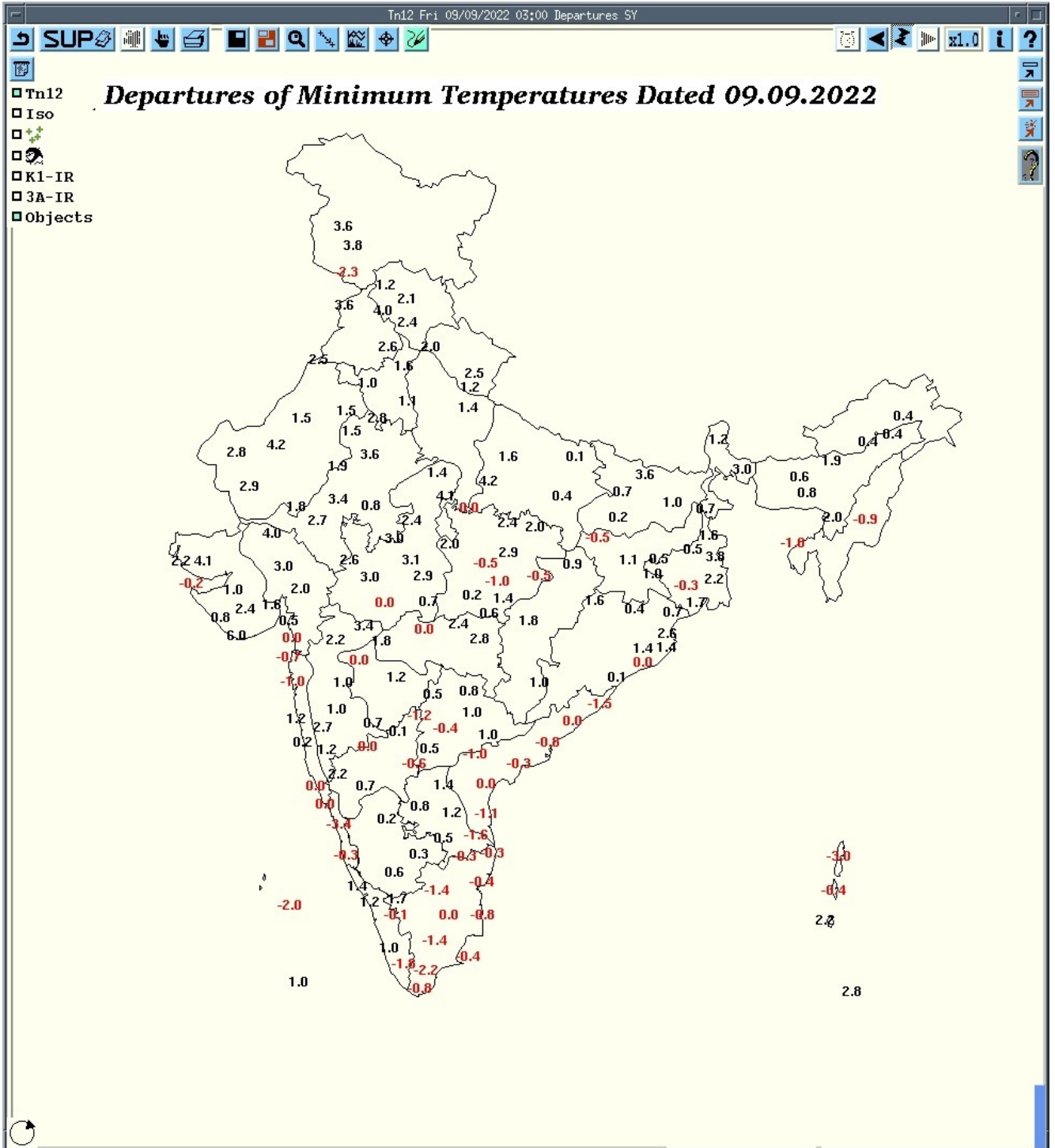
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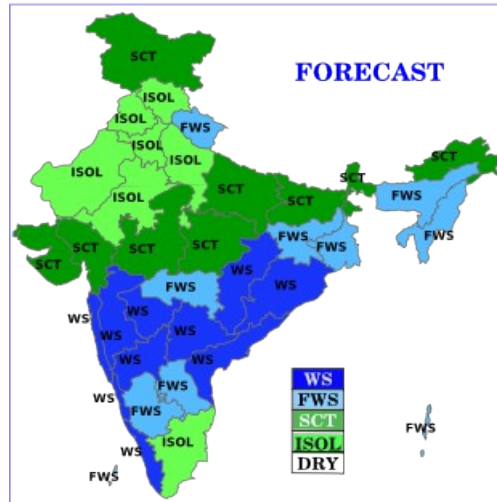


Fig. 5 : Departure from Normal of Minimum Temperatures



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## Saturday 10 September 2022



**10 Sept (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places** very likely over Coastal Andhra Pradesh & Yanam; **Heavy to very heavy rainfall** at isolated places very likely over south Odisha, Konkan & Goa, Madhya Maharashtra and Telangana and **heavy rainfall** at isolated places over Uttarakhand, south Chhattisgarh, north Odisha, Gangetic West Bengal, Assam & Meghalaya, south Gujarat State, Marathwada, Coastal & North Interior Karnataka & Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Karnataka, Goa, south Maharashtra coasts, east-central Arabian Sea, north Gujarat coast adjoining northeast Arabian Sea, west-central and adjoining east-central Bay of Bengal, adjoining south Bay of Bengal, north Andhra Pradesh, Odisha, West Bengal coasts, adjoining west-central and northwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea till off Karnataka, Maharashtra coasts, Lakshadweep area, Gulf of Mannar, south Tamil Nadu coast, off south Sri Lanka coast, southwest and adjoining southeast Bay of Bengal, central parts of central Bay of Bengal. Fishermen are advised not to venture into these seas.

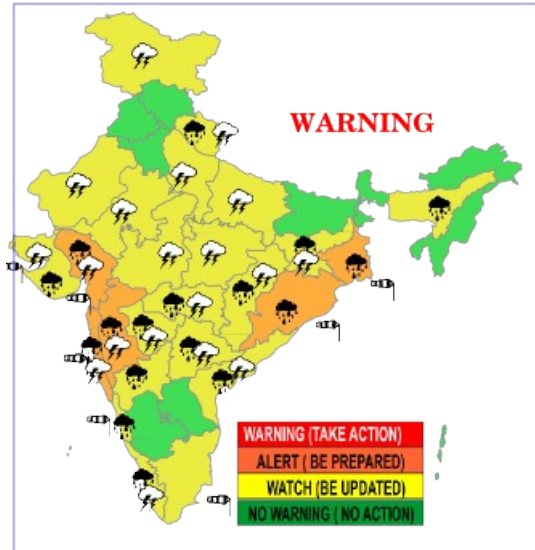
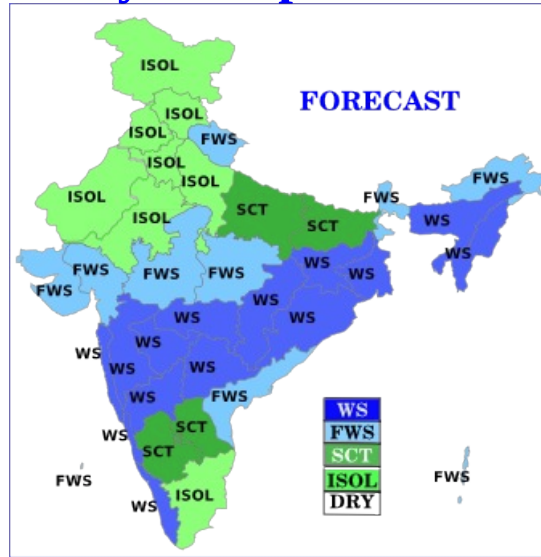
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## Sunday 11 September 2022



**11 Sept (Day 2): ♦ Heavy to very heavy rainfall** at a few places very likely over Konkan & Goa and at isolated places over Gangetic West Bengal, Odisha, Gujarat region and Madhya Maharashtra and **heavy rainfall** at isolated places over Uttarakhand, Vidarbha, Chhattisgarh, Jharkhand, Assam & Meghalaya, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** at isolated places very likely over Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Goa, south Maharashtra coasts to east-central Arabian Sea, north Gujarat coast adjoining northeast Arabian Sea, northwest and adjoining northeast Bay of Bengal, adjoining central Bay of Bengal, Odisha, West Bengal coasts, adjoining northwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea till off Karnataka, Goa, Maharashtra coasts, Gulf of Mannar, south Tamil Nadu coast, off south Sri Lanka coast, southwest and adjoining southeast Bay of Bengal, west-central and adjoining east-central Bay of Bengal, northwest Bay of Bengal, Odisha, West Bengal coasts. Fishermen are advised not to venture into these seas.

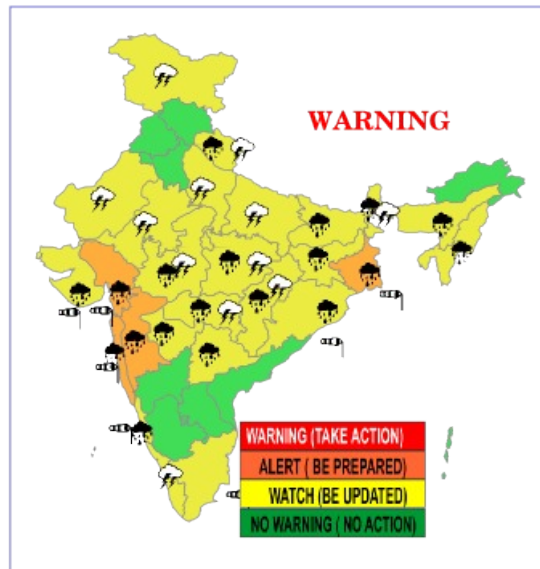
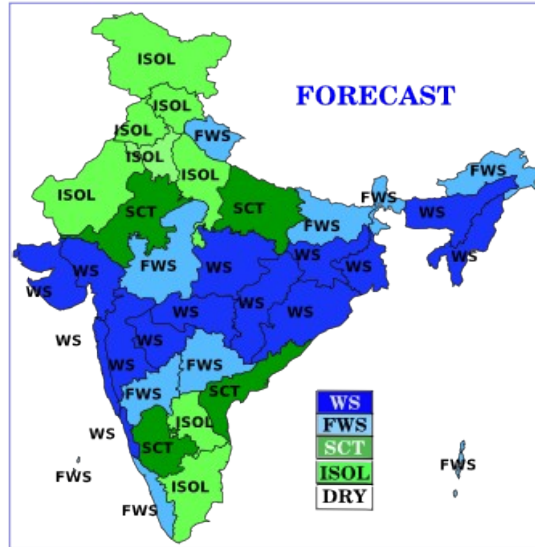
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## Monday 12 September 2022



**12 Sept (Day 3): ♦ Heavy to very heavy rainfall** at a few places likely over Konkan & Goa and at isolated places over Gangetic West Bengal, Gujarat Region and ghat areas of Madhya Maharashtra and **heavy rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Telangana, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra coast to east-central Arabian Sea, Gujarat coast adjoining northeast Arabian Sea, northwest and adjoining northeast Bay of Bengal, adjoining central Bay of Bengal, along and off Odisha, West Bengal coasts, adjoining northwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea till Karnataka, Goa, Maharashtra coasts, Gulf of Mannar, south Tamil Nadu coast, off southeast Sri Lanka coast, west-central and adjoining northwest Bay of Bengal, Odisha, West Bengal coasts, adjoining northwest Bay of Bengal. Fishermen are advised not to venture into these seas.

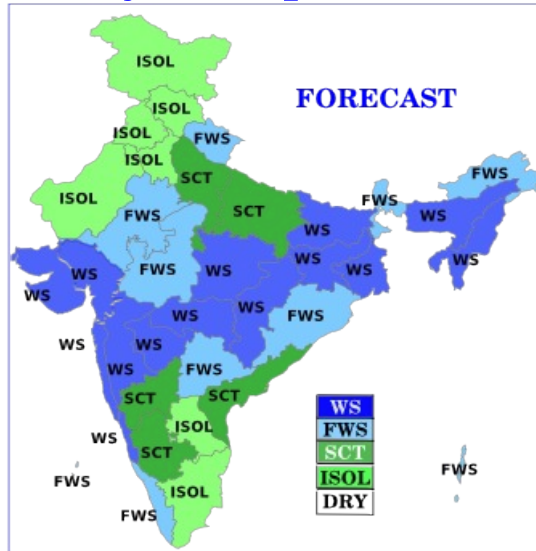
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## Tuesday 13 September 2022



**13 Sept (Day 4):** ♦ **Heavy to very heavy rainfall** at a few places likely over Konkan & Goa and at isolated places over Gujarat Region and ghat areas of Madhya Maharashtra and **heavy rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra, Gujarat coasts, east-central Arabian Sea, adjoining northeast Arabian Sea, northwest and adjoining northeast Bay of Bengal, adjoining central Bay of Bengal, Odisha, West Bengal coasts. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea, Odisha, West Bengal coasts. Fishermen are advised not to venture into these seas.

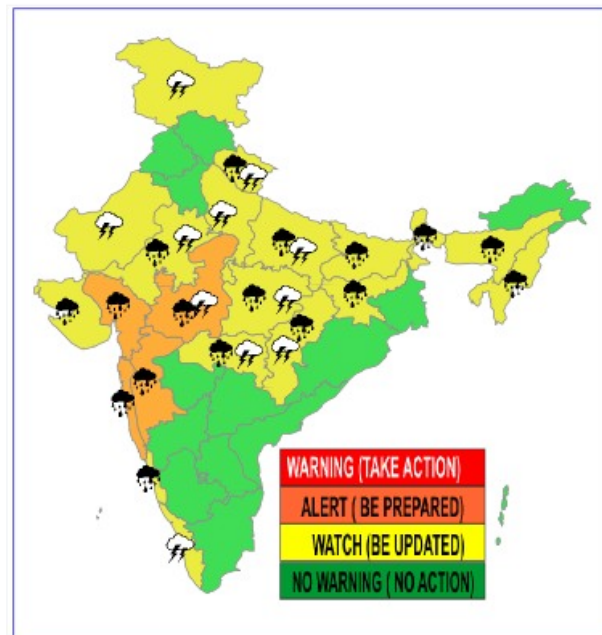
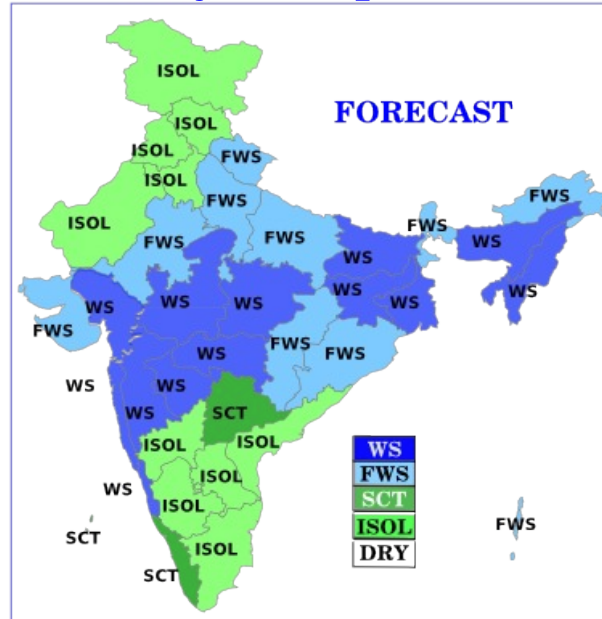
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## Wednesday 14 September 2022



**14 Sept (Day 5):** ♦ **Heavy to very heavy rainfall** at isolated places likely over Konkan & Goa, Gujarat Region, ghat areas of Madhya Maharashtra, southwest Madhya Pradesh & southeast Rajasthan and **heavy rainfall** at isolated places over Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra, Gujarat coasts, east-central Arabian Sea, adjoining northeast Arabian Sea, northwest and adjoining northeast Bay of Bengal, adjoining central Bay of Bengal, Odisha, West Bengal coasts. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, East-central Arabian Sea, Odisha, West Bengal coasts. Fishermen are advised not to venture into these seas.

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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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