



Saturday 04 June 2022

EVENING

Time of Issue: 1630 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advancement of Southwest Monsoon:

◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 15°N/ Long. 60°E, Lat. 15°N/ Long.70°E, Karwar, Chikmagalur, Bengaluru, Dharmapuri, Lat.10°N/Long.80°E, Lat.11.0°N/Long.83°E, Lat.14.0°N/Long.86°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Siliguri and 27.50°N/88°E.

Rainfall/thunderstorm Forecast & Warnings:

◆ An eastwest trough runs from East Uttar Pradesh to Nagaland and strong southwesterly winds from Bay of Bengal to Northeast India prevail in lower tropospheric levels. Under their influence:

i) Fairly widespread/ widespread light/moderate rainfall with isolated **heavy to very heavy rainfall** very likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim during next 5 days and over Arunachal Pradesh on 07th & 08th June. Isolated **extremely heavy falls** also likely over Meghalaya on 04th June.

ii) Isolated/scattered rainfall with **thunderstorm/lightning/gusty winds** very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 5 days. Isolated **heavy rainfall** likely over Bihar on 04th June, 2022.

◆ **Increase in rainfall activity** is likely over South Peninsular India from 07th June: Fairly widespread/ widespread light/moderate rainfall with **thunderstorm/lightning** very likely over Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep and isolated to scattered over Andhra Pradesh, Telangana, North Interior Karnataka & Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated **heavy rainfall** likely over North Interior Karnataka on 08th; Tamilnadu on 04th & 05th and over Kerala & Mahe and South Interior Karnataka on 04th, 05th, 07th & 08th June, 2022.

◆ **Heat wave conditions** in isolated places very likely over Rajasthan, Jammu Division, Himachal Pradesh, Uttarakhand, south Punjab & south Haryana-Delhi on 04th & 05th; Vidarbha, interior Odisha & Chhattisgarh during 04th-06th and over south Uttar Pradesh & north Madhya Pradesh during 04th-08th June, 2022.

◆ **Strong Surface Winds** (with speed 30-40 kmph) very likely over Rajasthan & northwest Madhya Pradesh on 04th & 05th. June, 2022.

Main Weather Observations

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- ◆ **Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at most places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands and Lakshadweep; at many places over Assam & Meghalaya and South Interior Karnataka; at a few places over and at isolated places over Kerala & Mahe, Jammu & Kashmir, Bihar, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka and Tamilnadu, Puducherry & Karaikal .
- ◆ **Thunderstorm observed (from 0830 hours IST to 1430 hours IST of today):** at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ◆ **Chief amount of Rainfall observed: (from 0830 hours IST of yesterday to 0830 hours IST of today): (5 cm or more):** Meghalaya: MAWSYNRAM & SOHRA-21 each, ANLAREM(ARG) & KHLIEHRIAT-20 each, KHLIEHRIAT (ARG)-19, JOWAI-16, SHELLA-15, MAWKYRWAT-12, MAWPHLANG-10; **Sub-Himalayan West Bengal & Sikkim: Jalpaiguri:** Hasimara-14, Buxaduar-10, Gajoldoba & Neora-8 each, Kumargram-7; **West Sikkim:** Gyalsingh-10; **Cooch Behar:** Cooch Behar-8, Mathabhanga-7; **South Dinajpur:** Majhian-8, **Darjeeling:** Rongo-8; **Assam:** KARIMGANJ-12, TIHU(ARG)-8, PUTHIMARI-7; **Arunachal Pradesh:** PASSIGHAT & ITANAGAR (CWC)-8, SEPPA-7; **KERALA:** Malappuram: Ponnani-8, Karipur AP & Vakkad AWS-5 each, **South Interior Karnataka:** Tumakuru: Tiptur- 7, Kunigal & Kunigal Arg -5 each.
- ◆ **Heavy rainfall observed:** Extremely heavy rainfall occurred over Meghalaya; heavy to very heavy rainfall over Assam, Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim and heavy rainfall over Bihar, Kerala and South Interior Karnataka.
- ◆ **Yesterday,** Heat Wave Conditions observed in most parts over Northern parts of West Rajasthan & eastern Vidarbha and in some parts over Bundelkhand Region.
- ◆ **Maximum Temperature Departures (as on 03-06-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at many places over Himachal Pradesh, Uttarakhand, West Rajasthan and Vidharbha; at isolated places over Madhya Pradesh, East Rajasthan, Odisha and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand and Chhattisgarh; at many places over East Uttar Pradesh and Bihar; at a few places over Kerala & Mahe and at isolated places over Jammu & Kashmir, Madhya Pradesh, Saurashtra & Kutch and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at most places over Lakshadweep; at a few places over Gangetic West Bengal and at isolated places over Assam & Meghalaya and near normal over rest parts of the country. **Yesterday,** the highest maximum temperature of 46.4°C was reported at Chandrapur (Vidharbha).
- ◆ **Minimum Temperature Departures (as on 04-06-2022):** Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand; at a few places over Vidarbha and at isolated places over East Rajasthan, East Madhya Pradesh, Telangana and Odisha; above normal (1.6°C to 3.0°C) at many places over West Madhya Pradesh, Chhattisgarh and Gangetic West Bengal; at a few places over Himachal Pradesh, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and at isolated places over West Uttar Pradesh, Haryana, Sub-Himalayan West Bengal & Sikkim, Bihar, Rayalaseema and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. **Today,** the lowest minimum temperature of 22.7°C is reported at Meerut(West Uttar Pradesh) over the plains of the country.

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Meteorological Analysis (Based on 1430 hours IST)

- ◆ The **Northern Limit of Monsoon (NLM)** continues to pass through Lat. 15°N/ Long. 60°E, Lat. 15°N/ Long. 70°E, Karwar, Chikmagalur, Bengaluru, Dharmapuri, Lat. 10°N/ Long. 80°E, Lat. 11.0°N/ Long. 83°E, Lat.14.0°N/Long.86°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Siliguri and 27.50°N/88°E.
- ◆ The Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 64°E & to north of Lat. 28°N.
- ◆ The cyclonic circulation over East Uttar Pradesh and neighbourhood extending upto 0.9 km above mean sea level persists
- ◆ The east-west trough from the above cyclonic circulation over East Uttar Pradesh to Nagaland across Bihar, Sub-Himalayan West Bengal and Assam at 0.9 km above mean sea level persists.
- ◆ The trough from cyclonic circulation as a north-south trough from Bihar to north Coastal Andhra Pradesh across Jharkhand and Chhattisgarh at 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over Eastcentral and adjoining Southeast Bay of Bengal between 3.1 & 7.6 km above mean sea level tilting southwestwards with height persists.
- ◆ The trough from the above cyclonic circulation over Eastcentral and adjoining Southeast Bay of Bengal to Southwest Bay of Bengal at 3.1 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 09th June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Rise in maximum temperatures by about 2°C very likely over most parts of Northwest & Central India and no significant change thereafter.
- ◆ No significant change in maximum temperatures very likely over Gujarat during next 3 days and fall by 2-3°C over south Gujarat thereafter.
- ◆ No significant change in maximum temperatures very likely over rest parts of the country during next 5 days.

Weather Outlook for subsequent 2 days during 09th June-11th June, 2022

- ◆ Widespread light/moderate rainfall with isolated heavy to very heavy falls likely over Sub-Himalayan West Bengal & Sikkim, Northeast India and Islands.
- ◆ Fairly widespread/widespread light/moderate rainfall likely over South Peninsular India. Scattered light rainfall likely over Western Himalayan Region & adjoining plains of Northwest India.
- ◆ Dry weather likely over rest parts of the country.

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Weather Warning during next 5 days *

04 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Meghalaya; **heavy to very heavy rainfall** at isolated places over Assam and Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** at isolated places over Bihar, Arunachal Pradesh, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave condition** in some places very likely over Vidarbha and in isolated places over Jammu Division, Himachal Pradesh, Uttarakhand, south Punjab, south Haryana-Delhi, south Uttar Pradesh, Odisha, Chhattisgarh, north Madhya Pradesh and Rajasthan.

♦ **Strong winds (wind speed 40-50 kmph gusting to 60 kmph)** very likely over eastcentral Arabian Sea, southeast Bay of Bengal and adjoining southwest Bay of Bengal. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea, Kerala coast, Lakshadweep area and adjoining Comorin area, southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

05 June (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and **heavy rainfall** at isolated places over Arunachal Pradesh, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave condition** in some places very likely over Vidarbha and in isolated places over Jammu Division, Himachal Pradesh, Uttarakhand, south Punjab, south Haryana-Delhi, south Uttar Pradesh, Rajasthan, Jharkhand, Odisha, Chhattisgarh and north Madhya Pradesh.

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over south east Bay of Bengal and adjoining south west Bay of Bengal. **Strong winds (wind speed 40-50 kmph gusting to 60 kmph)** over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

06 June (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and **heavy rainfall** at isolated places over Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Bihar, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathawada, Rayalaseema, Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat wave condition** in isolated places very likely over Vidarbha, south Uttar Pradesh, Jharkhand, Odisha, Chhattisgarh and north Madhya Pradesh.

♦ **Strong winds** of 40-50 kmph gusting to 60 kmph very likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

07 June (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Rayalaseema and **with lightning** at isolated places over Bihar, Gangetic West Bengal, Odisha, Chhattisgarh, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Heat wave condition** in isolated places likely over south Uttar Pradesh and north Madhya Pradesh.

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** likely over eastcentral Arabian Sea, adjoining south east Arabian Sea, Lakshadweep area, along and off Kerala coast. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these areas.

08 June (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Rayalaseema and **with lightning** at isolated places over Bihar, Gangetic West Bengal, Odisha, Chhattisgarh, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Heat wave condition** in isolated places likely over south Uttar Pradesh and north Madhya Pradesh.

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** likely over east central Arabian Sea, adjoining south east Arabian Sea, Lakshadweep area, along and off Kerala coast. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these areas.

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Table-1
5 Day Rainfall Forecast (EVENING)
04-June-2022

Met-Sub-Division	04-Jun Today	05Jun Sun	06Jun Mon	07Jun Tue	08Jun Wed
1. Andaman & Nicobar Islands	WS	WS	WS	WS	WS
2. Arunachal Pradesh	WS	WS	WS	WS	WS
3. Assam & Meghalaya	WS	WS	WS	WS	WS
4. N. M. M. & T.	WS	WS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	WS	WS	WS	WS	WS
6. Gangetic West Bengal	SCT	SCT	SCT	SCT	ISOL
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	ISOL
9. Bihar	SCT	ISOL	ISOL	ISOL	ISOL
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	DRY	DRY	DRY	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	DRY	DRY	DRY	DRY	DRY
16. J & K and Ladakh	ISOL	ISOL	ISOL	ISOL	ISOL
17. West Rajsthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	ISOL
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	ISOL	ISOL	ISOL	ISOL	SCT
24. Madhya Maharashtra	ISOL	ISOL	ISOL	ISOL	ISOL
25. Marathawada	DRY	ISOL	ISOL	ISOL	ISOL
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	ISOL	ISOL
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	ISOL	SCT
29. Telangana	ISOL	ISOL	ISOL	ISOL	SCT
30. Rayalaseema	ISOL	SCT	SCT	SCT	FWS
31. T.N.,Puducherry & Karaikal	SCT	SCT	SCT	SCT	SCT
32. Coastal Karnataka	FWS	FWS	FWS	FWS	WS
33. North Interior Karnataka	SCT	SCT	SCT	FWS	FWS
34. South Interior Karnataka	FWS	FWS	FWS	WS	WS
35. Kerala & Mahe	FWS	FWS	FWS	WS	WS
36. Lakshadweep	FWS	FWS	FWS	WS	WS

% Station Reporting Rainfall

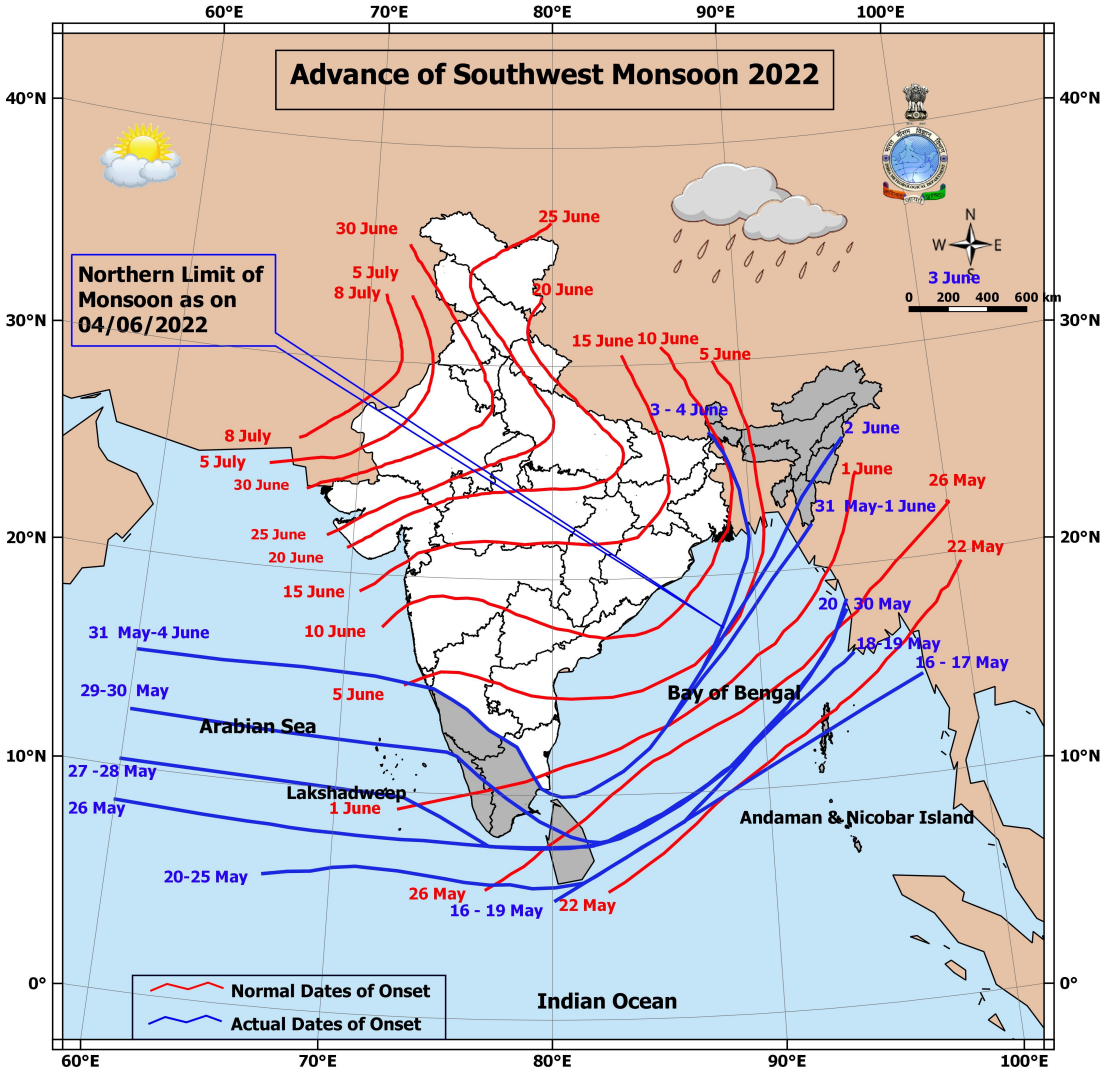
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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QGIS

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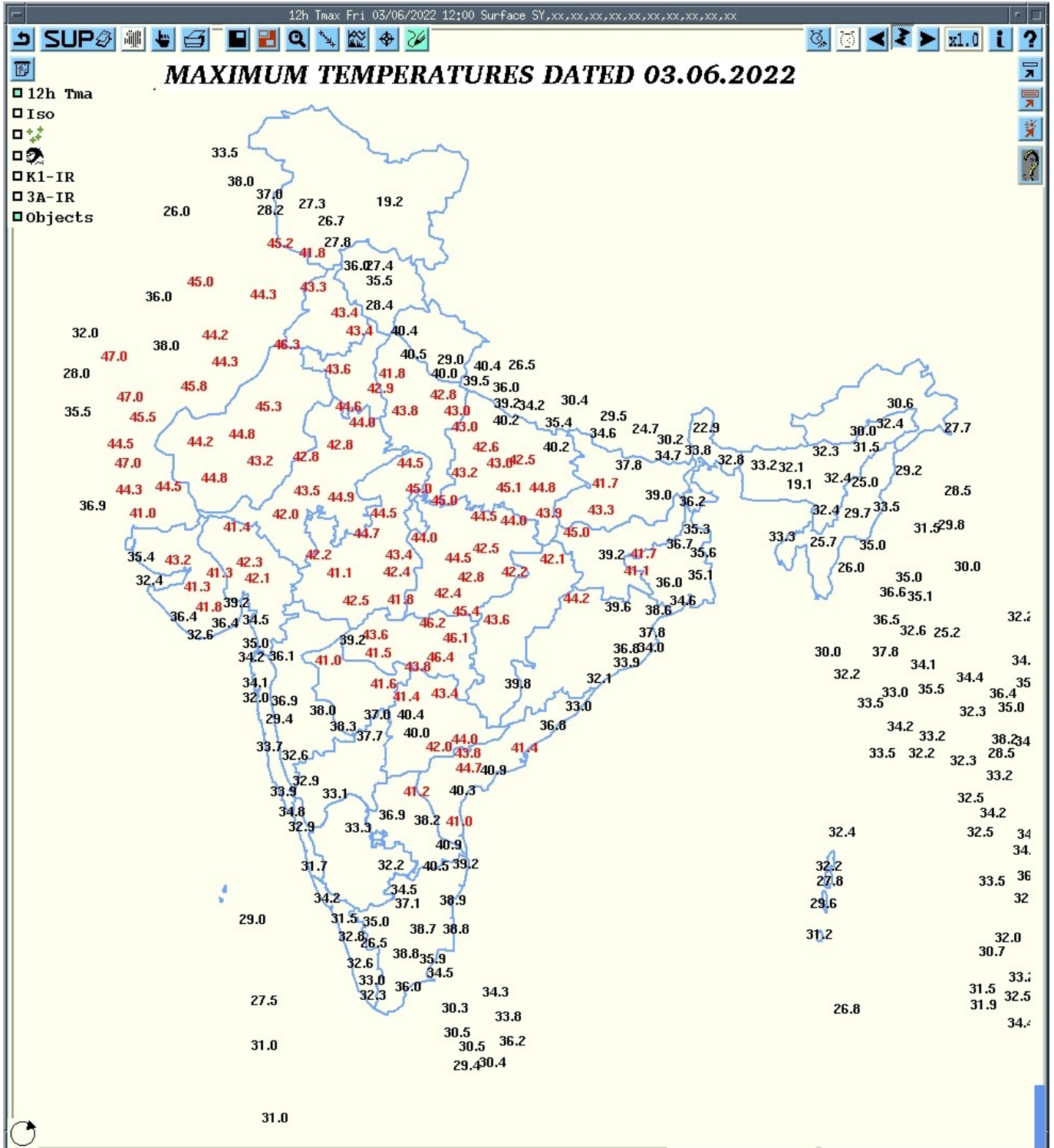
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(Created by the MetInfo@IMD)



Fig. 2: Maximum Temperature during past 24 hours

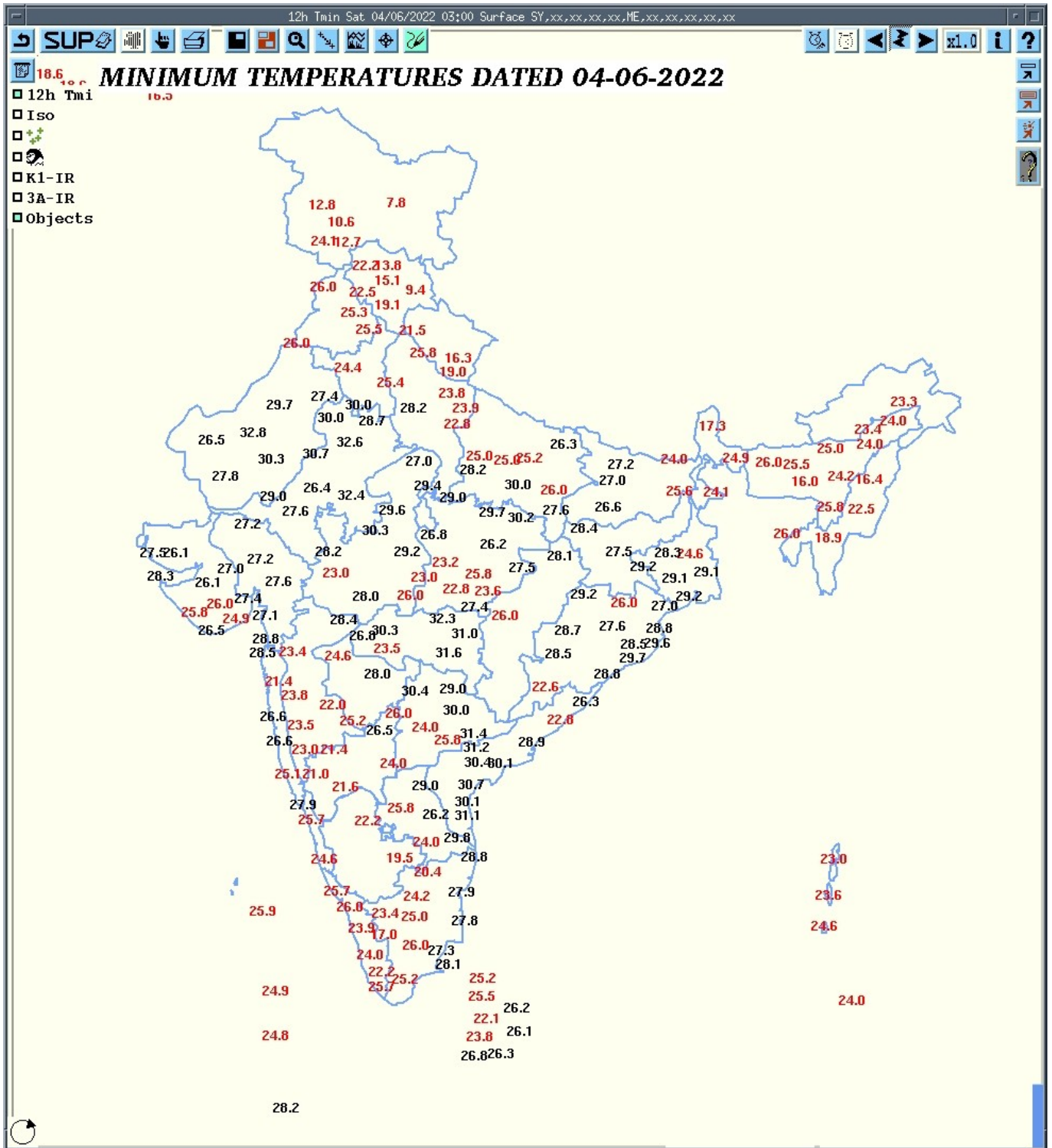


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(Created by the MetInfo@1979)



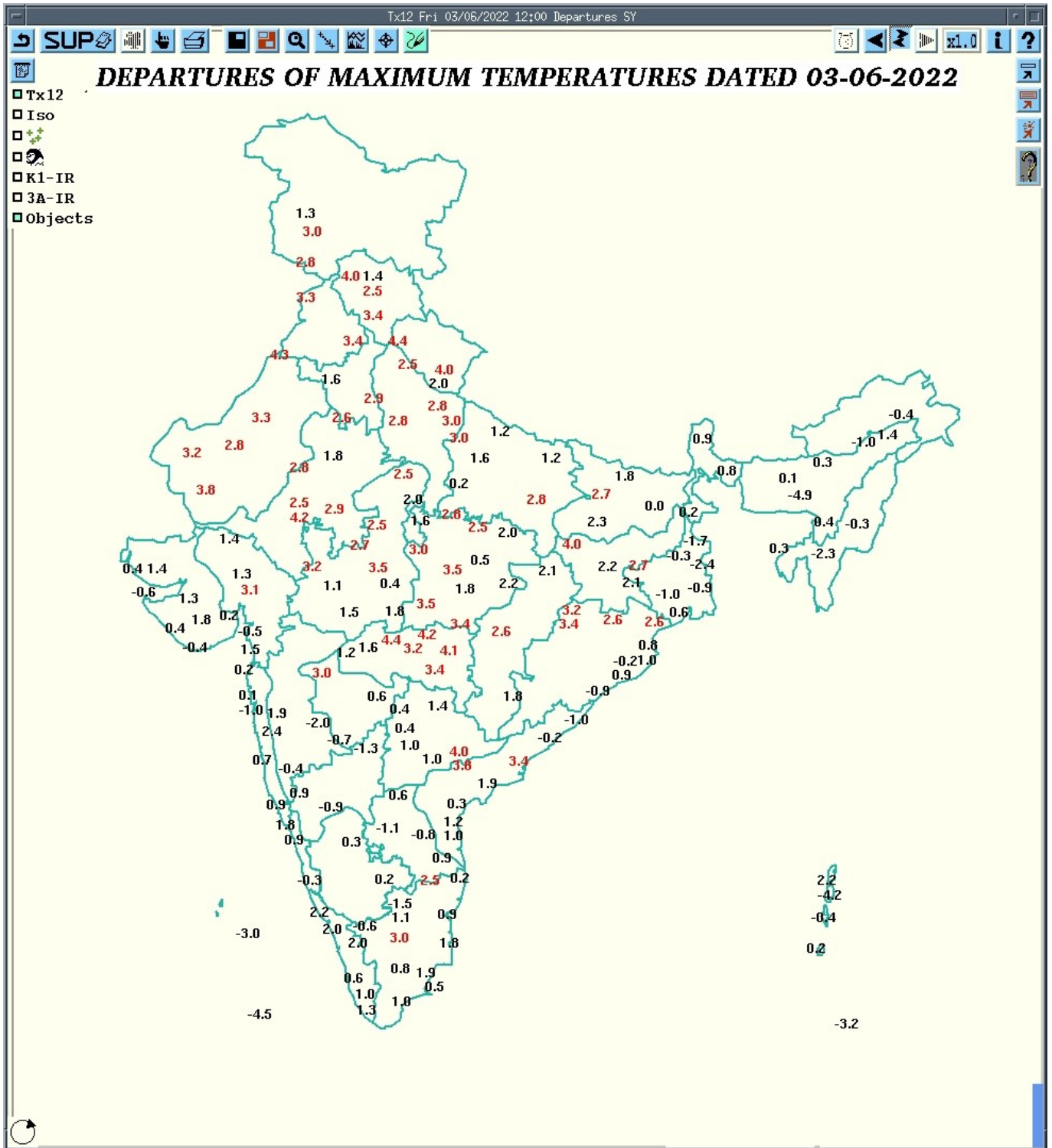
Fig. 3: Minimum Temperature during past 24 hours



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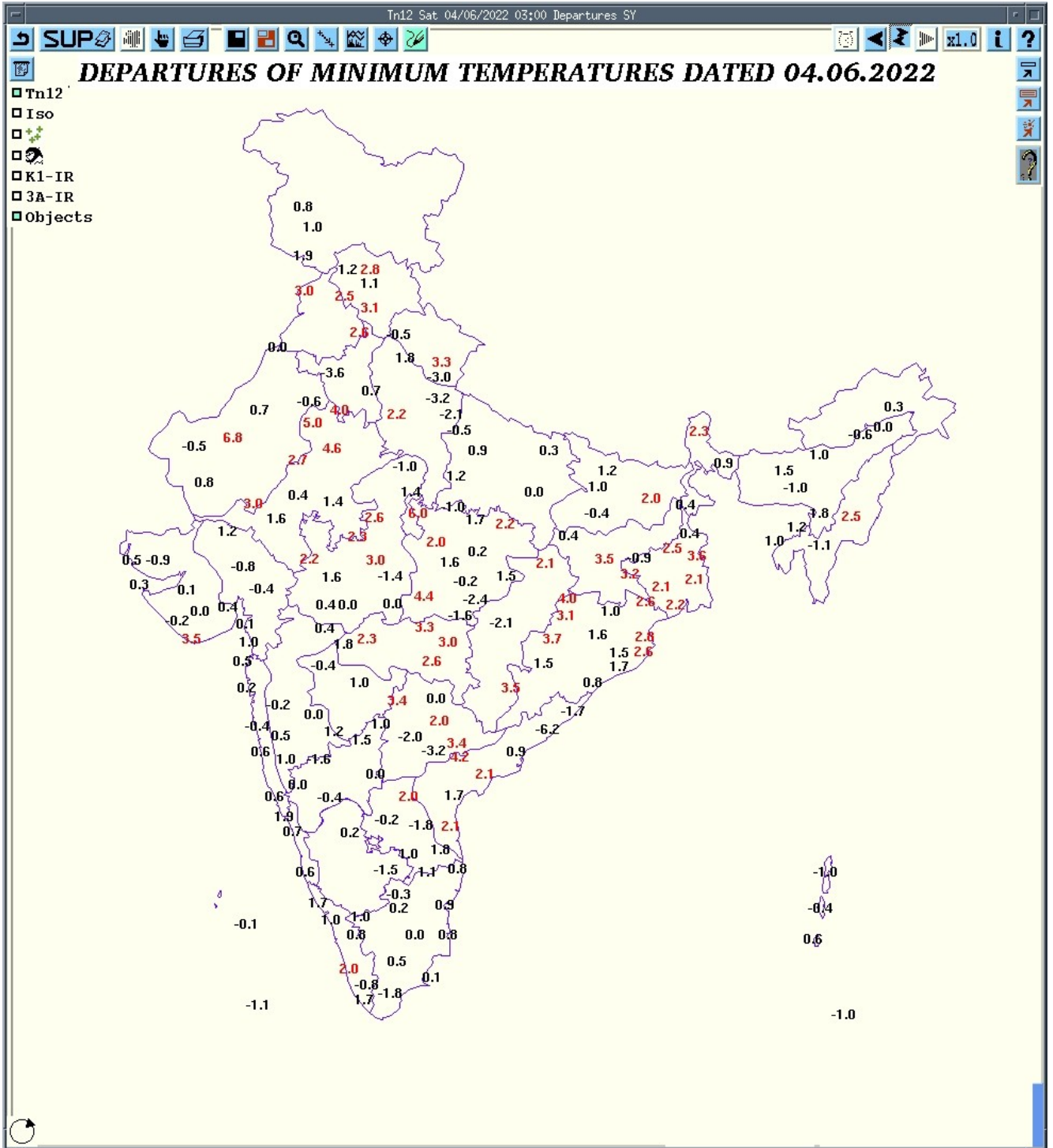
Fig. 4 : Departure from Normal of Maximum Temperatures



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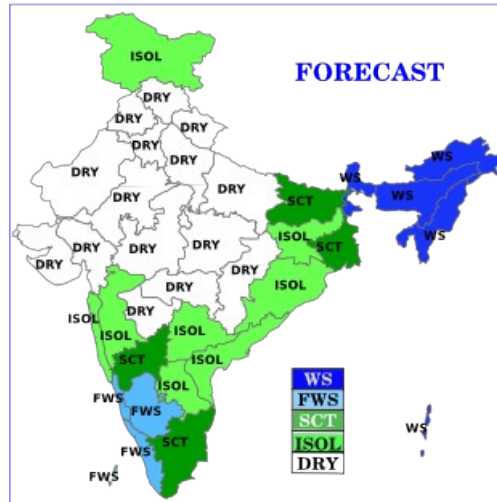


Fig. 5 : Departure from Normal of Minimum Temperatures



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Saturday 04 June 2022



04 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Meghalaya; **heavy to very heavy rainfall** at isolated places over Assam and Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** at isolated places over Bihar, Arunachal Pradesh, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave condition** in some places very likely over Vidarbha and in isolated places over Jammu Division, Himachal Pradesh, Uttarakhand, south Punjab, south Haryana-Delhi, south Uttar Pradesh, Odisha, Chhattisgarh, north Madhya Pradesh and Rajasthan.

♦ **Strong winds (wind speed 40-50 kmph gusting to 60 kmph)** very likely over eastcentral Arabian Sea, southeast Bay of Bengal and adjoining southwest Bay of Bengal. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea, Kerala coast, Lakshadweep area and adjoining Comorin area, southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

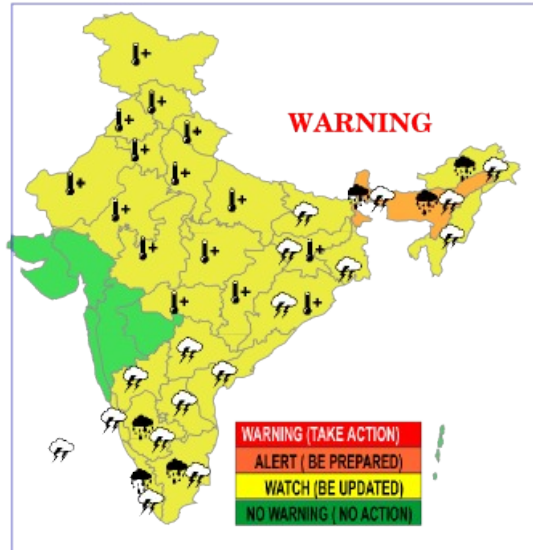
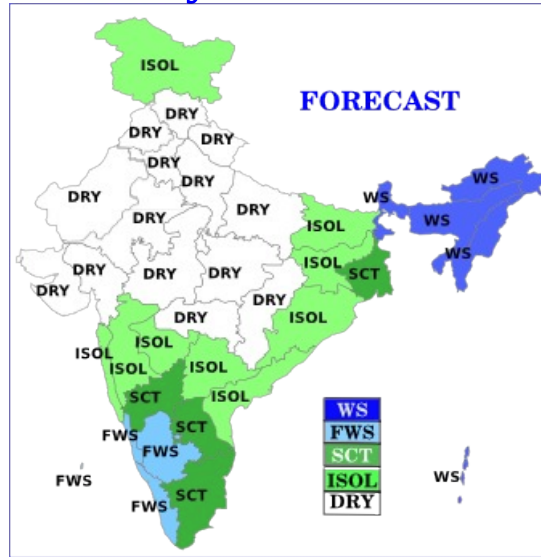
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Sunday 05 June 2022



05 June (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and **heavy rainfall** at isolated places over Arunachal Pradesh, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave condition** in some places very likely over Vidarbha and in isolated places over Jammu Division, Himachal Pradesh, Uttarakhand, south Punjab, south Haryana-Delhi, south Uttar Pradesh, Rajasthan, Jharkhand, Odisha, Chhattisgarh and north Madhya Pradesh.

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over south east Bay of Bengal and adjoining south west Bay of Bengal. **Strong winds (wind speed 40-50 kmph gusting to 60 kmph)** over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

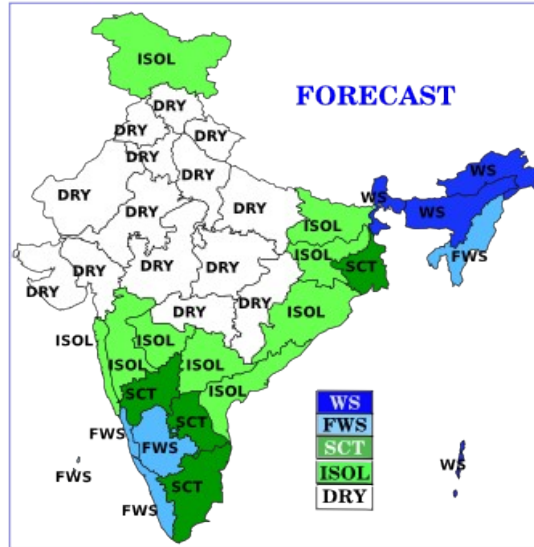
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Monday 06 June 2022



06 June (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and **heavy rainfall** at isolated places over Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Bihar, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathawada, Rayalaseema, Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat wave condition** in isolated places very likely over Vidarbha, south Uttar Pradesh, Jharkhand, Odisha, Chhattisgarh and north Madhya Pradesh.

♦ **Strong winds** of 40-50 kmph gusting to 60 kmph very likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

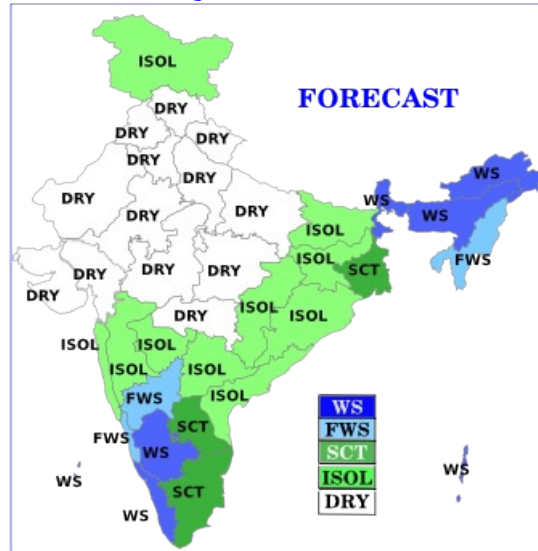
* **Red color warning does not mean "Red Alert" Red color warning means "Take Action".**

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(Circle as the National since 1975)

Tuesday 07 June 2022



07 June (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Rayalaseema and **with lightning** at isolated places over Bihar, Gangetic West Bengal, Odisha, Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Heat wave condition** in isolated places likely over south Uttar Pradesh and north Madhya Pradesh.

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** likely over eastcentral Arabian Sea, adjoining south east Arabian Sea, Lakshadweep area, along and off Kerala coast. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these areas.

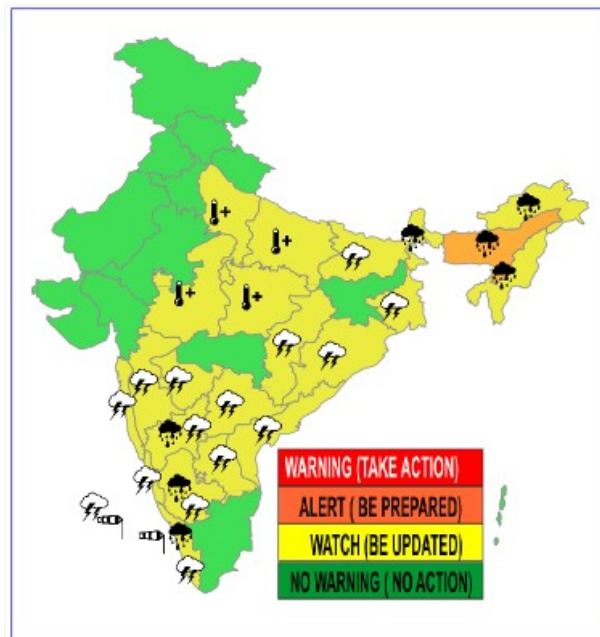
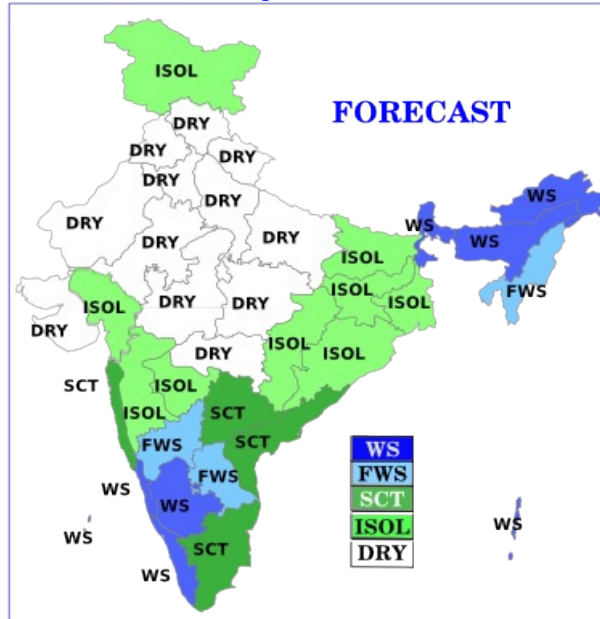
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(Circle as the National flag)

Wednesday 08 June 2022



08 June (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Rayalaseema and **with lightning** at isolated places over Bihar, Gangetic West Bengal, Odisha, Chhattisgarh, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Heat wave condition** in isolated places likely over south Uttar Pradesh and north Madhya Pradesh.

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** likely over east central Arabian Sea, adjoining south east Arabian Sea, Lakshadweep area, along and off Kerala coast. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these areas.

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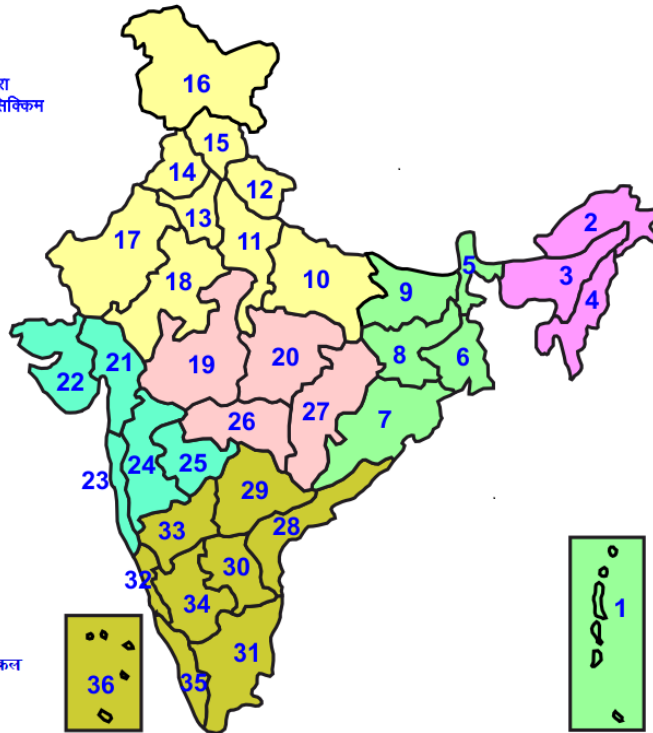
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(Copies to the Media upto 1070)

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 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

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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(Copies of the National Alert 1977)

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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