



Thursday 09 June 2022

MID-DAY

Time of Issue: 1345 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, Chikmagaluru, Bengaluru, Puducherry, Lat.14°N/Long.84°E, Lat.17.0°N/Long.87°E, Lat.20.0°N/Long.89.5°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Siliguri and 27.50°N/88°E.

◆ Conditions are favorable for further advance of monsoon into some more parts of central Arabian sea, Goa, some parts of south Maharashtra, some more parts of Karnataka, remaining parts of Tamilnadu, some parts of south Andhra Pradesh, some more parts of westcentral & northwest Bay of Bengal during next 48 hours.

◆ Conditions would continue to become favourable for further advance of monsoon into more parts of Maharashtra, entire Karnataka, more parts of Andhra Pradesh and more parts of westcentral & northwest Bay of Bengal during subsequent 2 days.

Rainfall/thunderstorm Forecast & Warnings:

◆ Under the influence of north-south trough from Sub-Himalayan West Bengal to interior Odisha and strong southwesterly winds from Bay of Bengal to northeast India in lower tropospheric levels:

o Widespread light/moderate rainfall with isolated **heavy to very heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura during next 5 days. Isolated **extremely heavy rainfall** also likely over Arunachal Pradesh on 10th & 11th June and over Assam & Meghalaya during next 5 days.

o 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 today.

◆ Under the influence of strong westerly/southwesterly winds along the west coast in lower tropospheric levels:

o Fairly widespread/ widespread light/moderate rainfall with thunderstorm/lightning very likely over Karnataka, Kerala & Mahe and Lakshadweep; scattered to fairly widespread rainfall over Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and Telangana during next 5 days. Isolated **heavy rainfall** very likely over South Interior Karnataka on 12th; Coastal Karnataka during 09th-13th and over Kerala & Mahe on 11th & 12th June, 2022.

o Fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely over Konkan & Goa and scattered to fairly widespread rainfall with thunderstorm/lightning/gusty winds over Madhya Maharashtra and Marathwada during next 5 days. Isolated **heavy rainfall** also likely over Konkan & Goa on 10th & 13th and isolated **very heavy rainfall** on 11th & 12th June, 2022.

◆ **Heat wave warnings:** Heat wave conditions in isolated places very likely over

o Punjab, Haryana-Delhi, south Uttar Pradesh, northwest Rajasthan, north Madhya Pradesh, interior Odisha and Jharkhand on 09th & 10th June.

o Uttarakhand, Chhattisgarh, south coastal Andhra Pradesh, Telangana and Vidarbha on 09th June, 2022.

Main Weather Observations

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(Circle as the National Alert 1077)

◆ **Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; at many places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, Lakshadweep, Kerala & Mahe; at a few places over Konkan & Goa, Madhya Maharashtra, Marathwada, Bihar, North Interior Karnataka and at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Gujarat state, west Madhya Pradesh, Vidarbha, Chhattisgarh, Tamilnadu, Puducherry & Karaikal, Jharkhand and Odisha.**

◆ **Chief amount of Rainfall observed: (from 0830 hours IST of yesterday to 0830 hours IST of today)(7 cm or more): Bihar:** Kishanganj: Bahadurganj-26, Kishanganj-18, Chargharia-16; Purnea: Amaur-15, Araria: Forbesganj-9, Narpatganj, Jokihat, Sipti-8 each, Katihar: Balrampur-8 **Meghalaya:** East Khasi Hills: Shella-16; South Garo Hills: Baghmara -15; West Garo Hills: Tura-11; Chirang: Bijni-11; South west Khasi Hill: Mawkyrwat, Mawkyrwat-7 each; **Assam:** Chirang: Panbari-15; Barpeta:Beki-Mathanguri-12; Bongaigaon: AIE N H XING-12; Chirang: Bijni-11; Barpeta: Beki Rd. Bridge, Barpeta(kv k aws)-7 each, **Arunachal Pradesh:** Papumpare: Karsinga (aws and Itanagar(cwc)-8 each. **Sub-Himalayan West Bengal:** Jalpaiguri: NH31 Bridge, Buxaduar-8 each **Marathwada:** Parbhani: Gangakhed-8; **Madhya Maharashtra:** Pune: Shirurghodnadi-7; **Konkan & Goa:** Ratnagiri: Sangameshwar-6.

◆ **Isolated extremely heavy rainfall** reported over Bihar, **very heavy rainfall** over Assam & Meghalaya and **heavy rainfall** over Marathwada, Madhya Maharashtra, Arunachal Pradesh and Sub-Himalayan West Bengal.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at isolated places over Jammu & Kashmir, Saurashtra & Kutch, Madhya Maharashtra, Konkan & Goa, North Interior Karnataka, Telangana, Coastal Andhra Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar and Assam & Meghalaya.

◆ **Yesterday, Heat Wave Conditions** prevailed in some parts of east Vidarbha and in isolated pockets over Uttarakhand, northwest Rajasthan, Punjab, Haryana & Delhi, south Uttar Pradesh, northeast Madhya Pradesh, Chhattisgarh western parts of Jharkhand and interior Odisha.

◆ **Maximum Temperature Departures (as on 08-06-2022):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Uttarakhand and Jharkhand; **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab; at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Vidarbha, Chhattisgarh, Telangana, Odisha, Coastal Andhra Pradesh & Yanam and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, Uttar Pradesh, East Madhya Pradesh, Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at a few places over Konkan & Goa, Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal and Bihar; at isolated places over East Rajasthan, Saurashtra & Kutch, Marathwada, North Interior Karnataka, Gangetic West Bengal and Assam & Meghalaya and **near normal** over rest parts of the country. **Yesterday**, the highest maximum temperature of **46.2°C** was reported at **Ganganagar (West Rajasthan) and Bramhapuri (Vidarbha)**.

◆ **Minimum Temperature Departures (as on 09-06-2022):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over Himachal Pradesh, East Rajasthan and Gangetic West Bengal and at isolated places over Punjab, East Madhya Pradesh and Vidarbha; **above normal (1.6°C to 3.0°C)** at most places over Uttarakhand, Chhattisgarh and Odisha; at a few places over Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Bihar and Nagaland, Manipur, Mizoram & Tripura and Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, Saurashtra & Kutch, Telangana, Tamilnadu, Puducherry & Karaikal and Sub-Himalayan West Bengal & Sikkim and **near normal** over rest parts of the country. **Today**, the **lowest minimum** temperature of **20.0°C** is reported at Udgir (**North Interior Karnataka**) over the plains of the country.

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Meteorological Analysis (Based on 0830 hours IST)

- ◆ Conditions are favorable for further advance of monsoon into some more parts of central Arabian sea, Goa, some parts of south Maharashtra, some more parts of Karnataka, remaining parts of Tamilnadu, some parts of south Andhra Pradesh and some more parts of westcentral & northwest Bay of Bengal during next 48 hours.
- ◆ Conditions would continue to become favourable for further advance of monsoon into more parts of Maharashtra, entire Karnataka, more parts of Andhra Pradesh and more parts of westcentral & northwest Bay of Bengal during subsequent 2 days.
- ◆ 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, Puducherry, Lat. 14°N/ Long. 84°E, Lat. 17.0°N/ Long. 87°E, Lat.20.0°N/89.5°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 middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 71° E to the north of Lat. 30° N persists.
- ◆ The east-west trough from north Punjab to Manipur now runs from Southeast Uttar Pradesh to Manipur across Bihar, Sub-Himalayan West Bengal and Assam & Meghalaya at 0.9 km above mean sea level.
- ◆ The trough from north Chhattisgarh to Coastal Andhra Pradesh now runs from Sub-Himalayan West Bengal to Interior Odisha at 1.5 km above mean sea level.
- ◆ The trough from Eastcentral Bay of Bengal to Southwest Bay of Bengal off Tamilnadu coast now runs from northeast Bay of Bengal to Sri Lanka across central Bay of Bengal between 3.1 km & 4.5 km above mean sea level.
- ◆ A cyclonic circulation lies over eastcentral Arabian sea off south Konkan-Goa coasts and extends upto 5.8 km above mean sea level tilting southwestwards with height.
- ◆ The north-south trough roughly along Long. 90°E & to north of Lat. 20°N at 3.1 km above mean sea level has become less marked.
- ◆ The shear zone roughly along Lat. 11°N across south peninsular India between 4.5 km & 7.6 km above mean sea level has become less marked.

Weather Forecast for next 5 days * upto 0830 hours IST of 14th June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over central India during next 48 hours and gradual fall in maximum temperatures by 2-3°C 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 14th June-16th June, 2022

- ◆ Widespread light/moderate rainfall with isolated heavy to very heavy falls likely over Sub-Himalayan West Bengal & Sikkim, Northeast India and Islands.
- ◆ Scattered to fairly widespread rainfall likely along west coast of India, rest parts of peninsular India, central & east India.
- ◆ Isolated rainfall likely over Western Himalayan Region & adjoining plains of northwest India.
- ◆ Dry weather likely over rest parts of the country.

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(Circle as the Message (077))

Weather Warning during next 5 days *

09 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, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh and **heavy rainfall** at isolated places over Bihar, Coastal Karnataka and Nagaland.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **gusty winds (speed 30-40 kmph)** at isolated places over West Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Konkan & Goa, Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Sub-Himalayan West Bengal & Sikkim, Chhattisgarh and Gujarat state.

♦ **Heat wave conditions** in isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, south Uttar Pradesh, West Rajasthan, Chhattisgarh, Vidarbha, Madhya Pradesh, Coastal Andhra Pradesh, Telangana, Jharkhand and Odisha.

♦ **Squally Weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over east central Arabian Sea, east central Bay of Bengal and north Andaman Sea. **Strong winds of 40-50 kmph gusting to 60 kmph** likely over south west Arabian Sea, south west Bay of Bengal. Fishermen are advised not to venture into these seas.

10 June (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Meghalaya, Arunachal Pradesh; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam and **heavy rainfall** at isolated places over Nagaland, Manipur, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Andaman & Nicobar Islands; **gusty winds (speed 30-40 kmph)** at isolated places over Madhya Pradesh, Vidarbha, Madhya Maharashtra, Konkan & Goa, Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Tamilnadu, Puducherry & Karaikal, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Gangetic West Bengal, Chhattisgarh and Gujarat state.

♦ **Heat wave conditions** in isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, south Uttar Pradesh, West Rajasthan, Madhya Pradesh, Jharkhand and Odisha.

♦ **Squally Weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over east central Arabian Sea, along and off south Maharashtra, Goa, Karnataka coasts, east central Bay of Bengal and adjoining north east Bay of Bengal and Andaman Sea. **Strong winds of 40-50 kmph gusting to 60 kmph** likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

11 June (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Meghalaya, Arunachal Pradesh; **heavy to very heavy rainfall** at isolated places over Assam, Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, ghat areas of Madhya Maharashtra, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Gangetic West Bengal, Bihar, Odisha and Gujarat state.

♦ **Heat wave conditions** in isolated places very likely over Jharkhand.

♦ **Squally Weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over east central Arabian Sea, along and off north Kerala, along and off south Maharashtra, Goa, Karnataka coasts, east central Bay of Bengal and adjoining north east Bay of Bengal. **Strong winds of 40-50 kmph gusting to 60 kmph** likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

12 June (Day 4): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over Meghalaya; **heavy to very heavy rainfall** at isolated places over Assam, Arunachal Pradesh, Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, ghat areas of Madhya Maharashtra, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, northeast Uttar Pradesh, Gangetic West Bengal, Bihar, Odisha and Gujarat state.

♦ **Squally Weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over east central Arabian Sea, along and off north Kerala, along and off south Maharashtra, Goa, Karnataka coasts, east central Bay of Bengal and adjoining north east Bay of Bengal. **Strong winds of 40-50 kmph gusting to 60 kmph** likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

13 June (Day 5): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over Meghalaya; **heavy to very heavy rainfall** at isolated places over Assam, Arunachal Pradesh and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Konkan & Goa and Coastal Karnataka.

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

♦ **Squally Weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over east central Arabian Sea, along and off north Kerala, along and off south Maharashtra, Goa, Karnataka coasts, east central Bay of Bengal and adjoining north east Bay of Bengal. **Strong winds of 40-50 kmph gusting to 60 kmph** likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

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(Copies to the National Press 1877)



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)
09-June-2022

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

% Station Reporting Rainfall

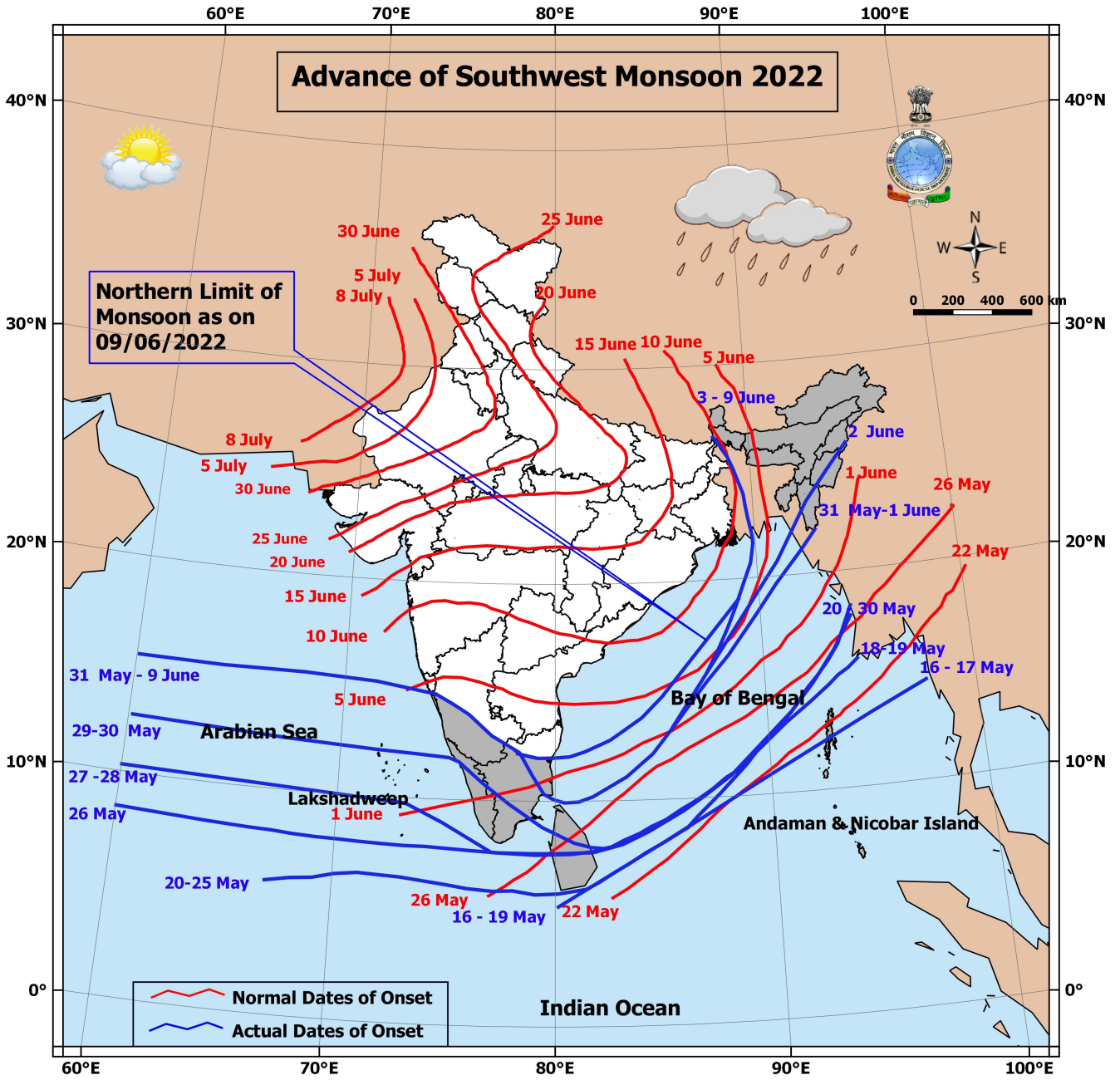
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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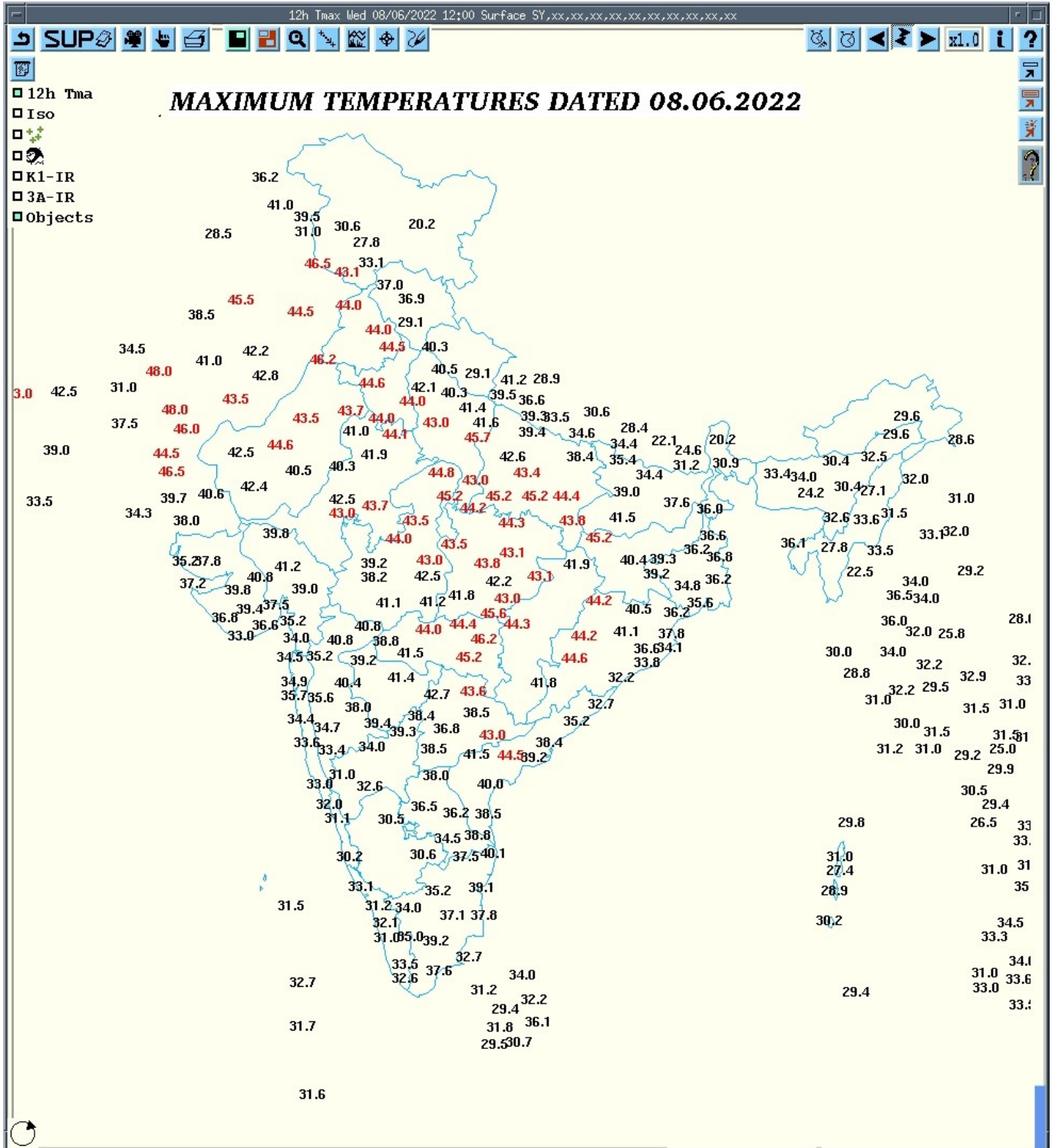
(Circle as the National flag)



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 (As per the Met Act 1975)



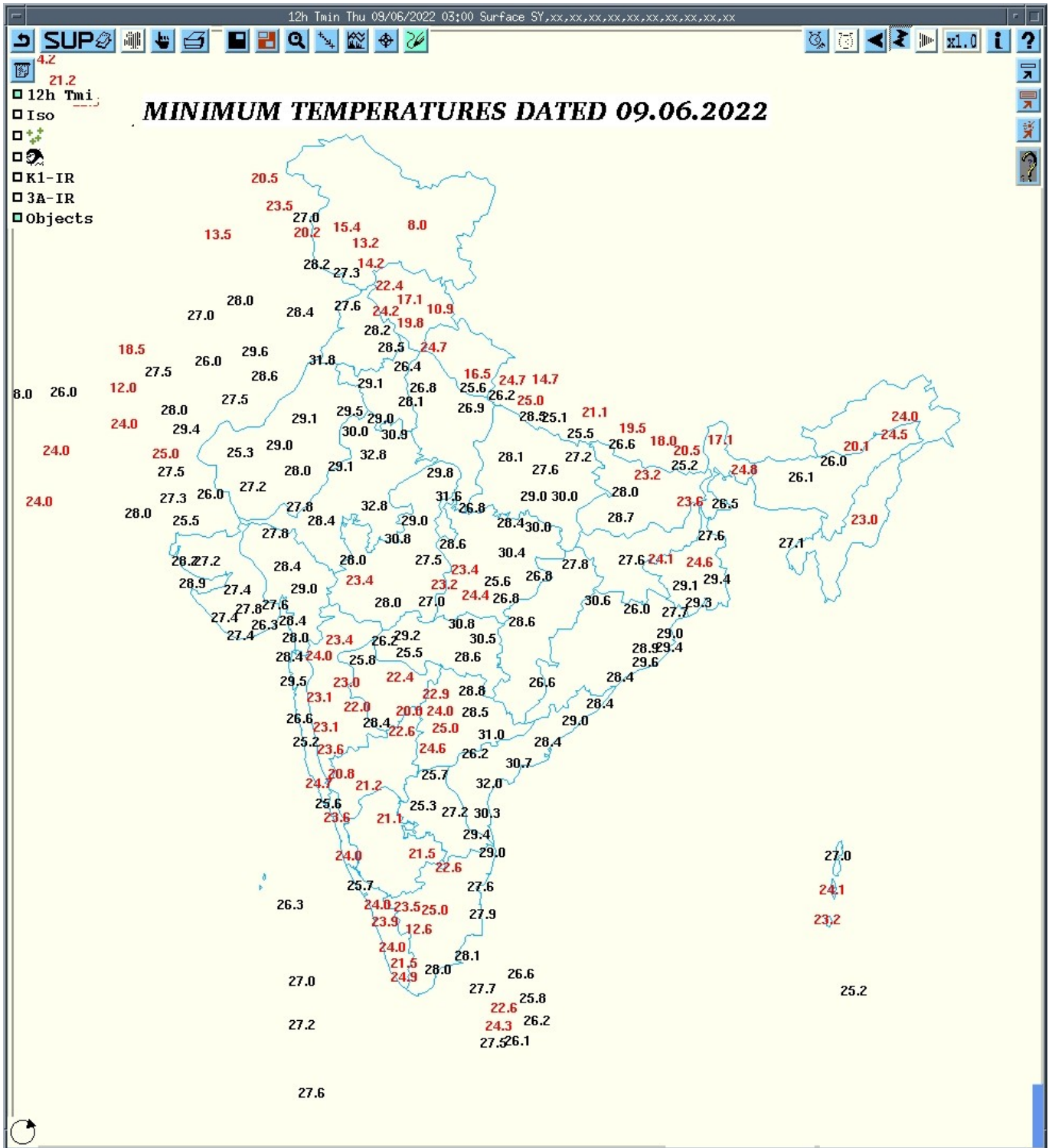
Fig. 2: Maximum Temperature during past 24 hours



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Fig. 3: Minimum Temperature during past 24 hours



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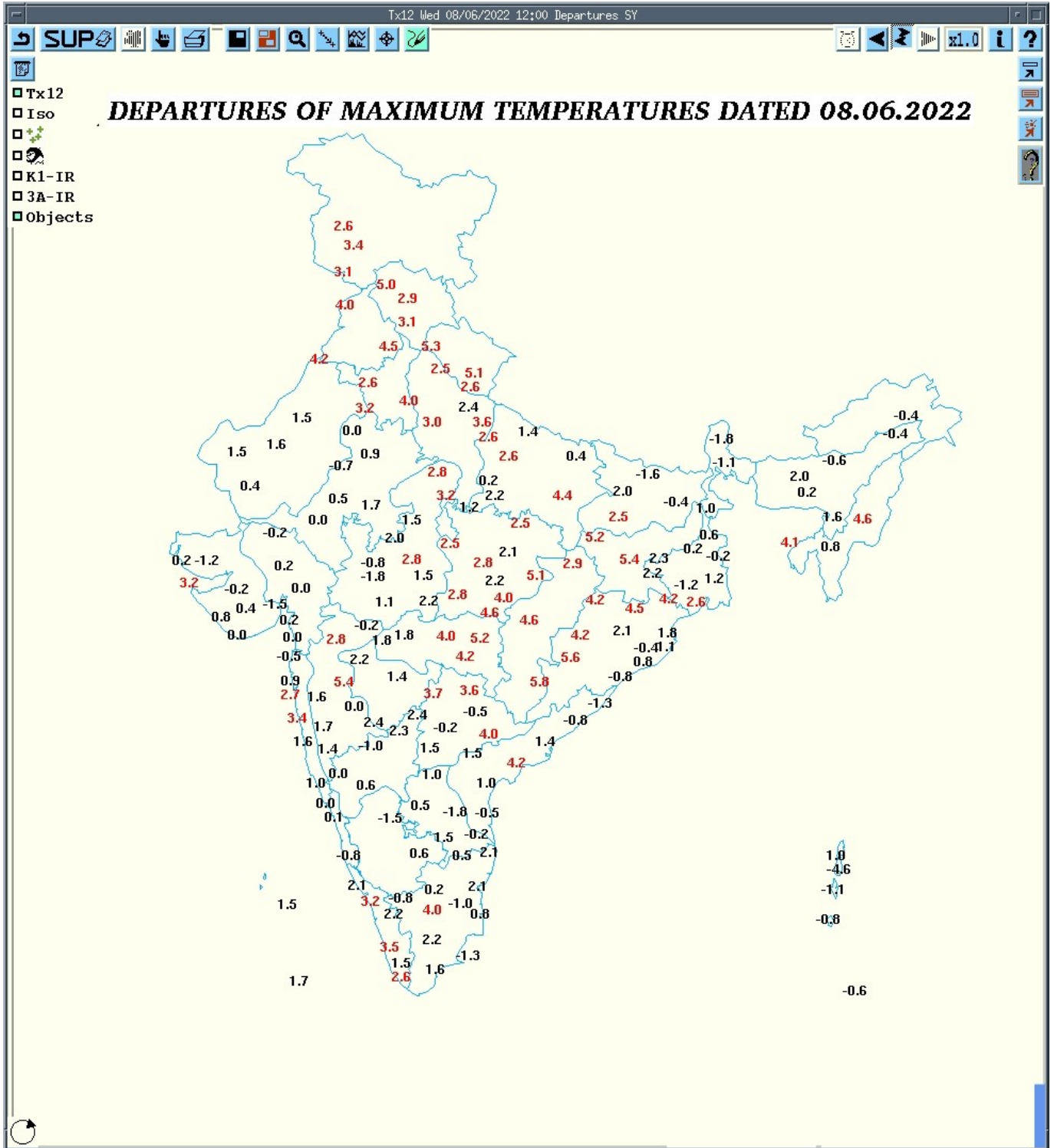
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(Created by the Met Office 1977)

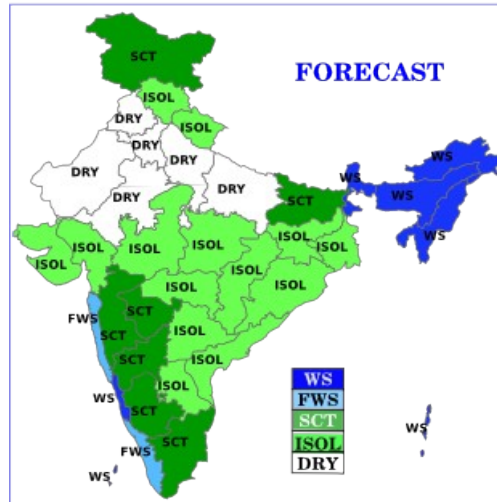


Fig. 4 : Departure from Normal of Maximum Temperatures



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♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **gusty winds (speed 30-40 kmph)** at isolated places over West Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Konkan & Goa, Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Sub-Himalayan West Bengal & Sikkim, Chhattisgarh and Gujarat state.

♦ **Heat wave conditions** in isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, south Uttar Pradesh, West Rajasthan, Chhattisgarh, Vidarbha, Madhya Pradesh, Coastal Andhra Pradesh, Telangana, Jharkhand and Odisha.

♦ **Squally Weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over east central Arabian Sea, east central Bay of Bengal and north Andaman Sea. **Strong winds of 40-50 kmph gusting to 60 kmph** likely over south west Arabian Sea, south west Bay of Bengal. Fishermen are advised not to venture into these seas.

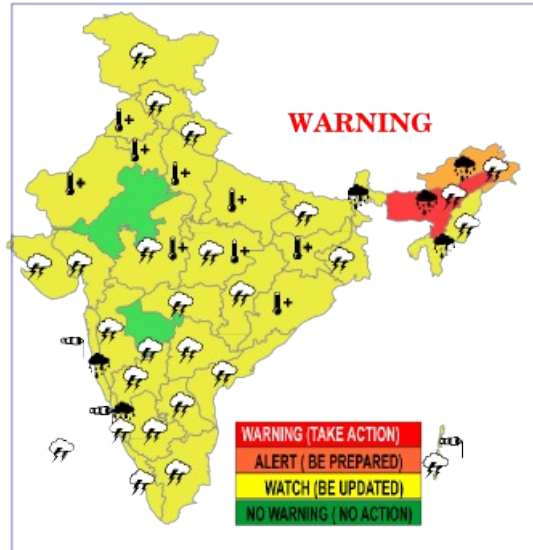
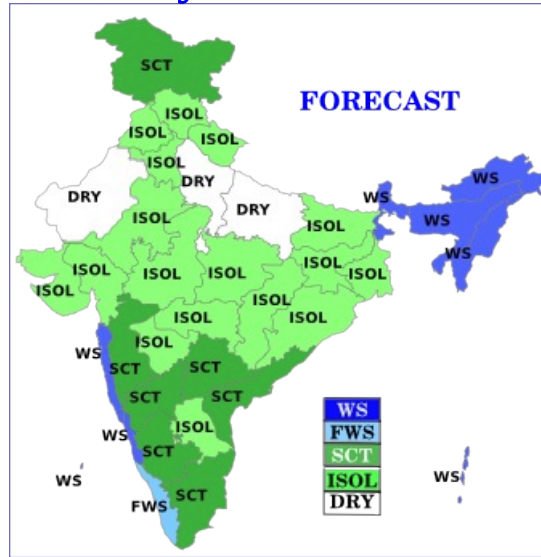
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(Created by the MeteoApp 1.0.0)

Friday 10 June 2022



10 June (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Meghalaya, Arunachal Pradesh; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam and **heavy rainfall** at isolated places over Nagaland, Manipur, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Andaman & Nicobar Islands; **gusty winds (speed 30-40 kmph)** at isolated places over Madhya Pradesh, Vidarbha, Madhya Maharashtra, Konkan & Goa, Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Tamilnadu, Puducherry & Karaikal, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Gangetic West Bengal, Chhattisgarh and Gujarat state.

♦ **Heat wave conditions** in isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, south Uttar Pradesh, West Rajasthan, Madhya Pradesh, Jharkhand and Odisha.

♦ **Squally Weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over east central Arabian Sea, along and off south Maharashtra, Goa, Karnataka coasts, east central Bay of Bengal and adjoining north east Bay of Bengal and Andaman Sea. **Strong winds of 40-50 kmph gusting to 60 kmph** likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

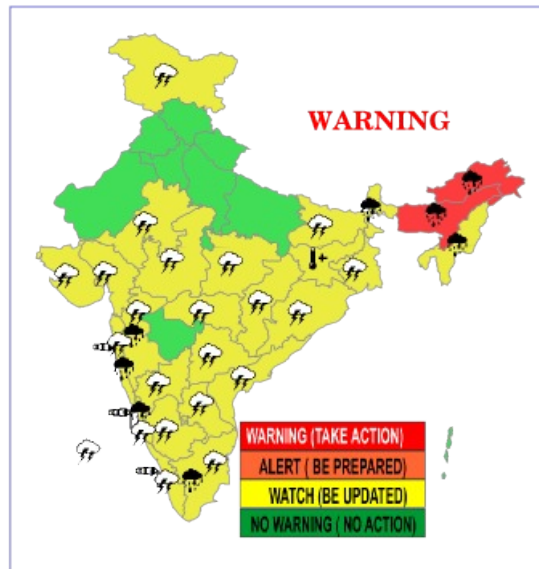
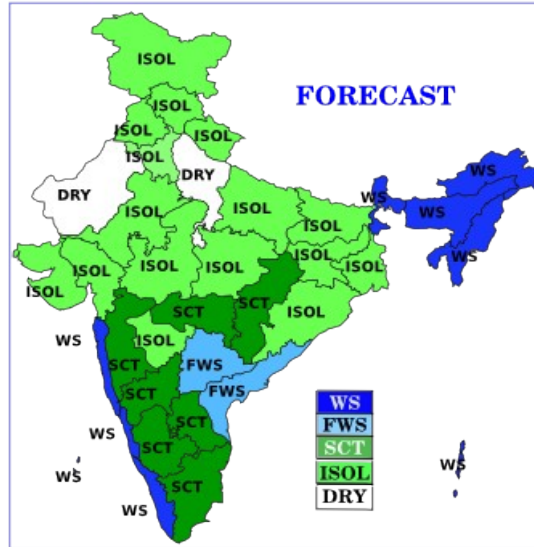
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(Copies to the Media upto 1070)

Saturday 11 June 2022



11 June (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Meghalaya, Arunachal Pradesh; **heavy to very heavy rainfall** at isolated places over Assam, Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, ghat areas of Madhya Maharashtra, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Gangetic West Bengal, Bihar, Odisha and Gujarat state.

♦ **Heat wave conditions** in isolated places very likely over Jharkhand.

♦ **Squally Weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Kerala, along and off south Maharashtra, Goa, Karnataka coasts, east central Bay of Bengal and adjoining north east Bay of Bengal. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

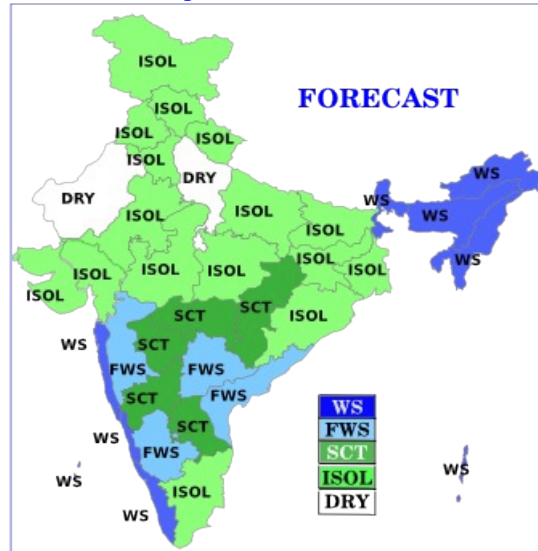
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(Copies to the Media upto 1000)

Sunday 12 June 2022



12 June (Day 4): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over Meghalaya; **heavy to very heavy rainfall** at isolated places over Assam, Arunachal Pradesh, Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, ghat areas of Madhya Maharashtra, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Balistan & Muzaffarabad, East Rajasthan, northeast Uttar Pradesh, Gangetic West Bengal, Bihar, Odisha and Gujarat state.

♦ **Squally Weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Kerala, along and off south Maharashtra, Goa, Karnataka coasts, east central Bay of Bengal and adjoining north east Bay of Bengal. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

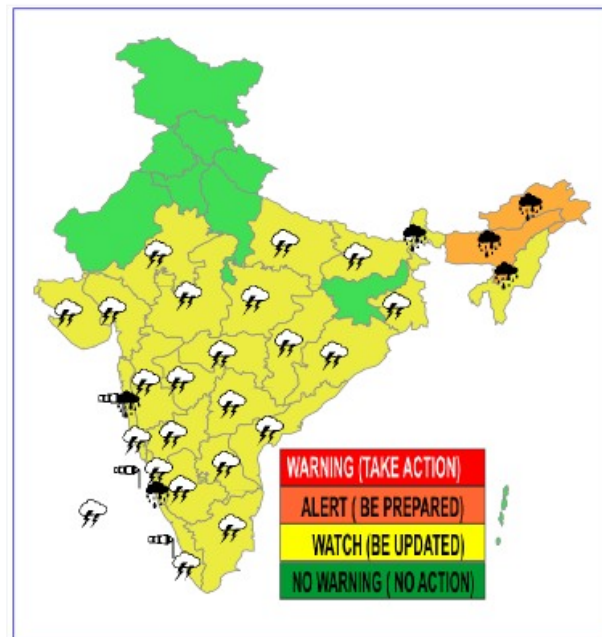
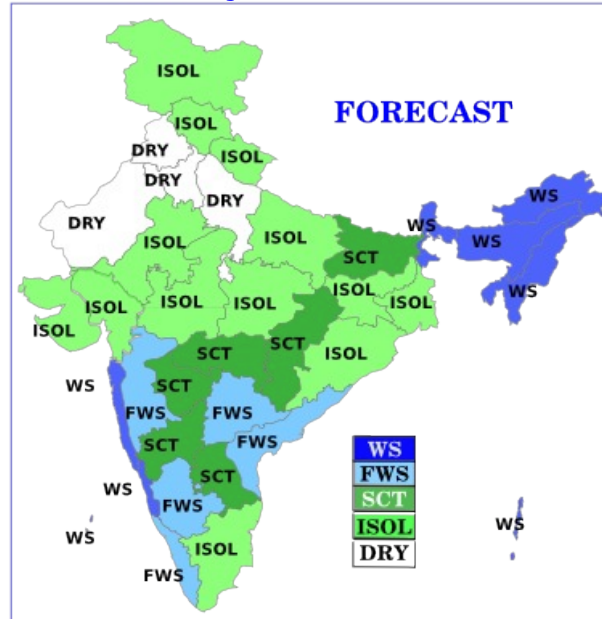
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Monday 13 June 2022



13 June (Day 5): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over Meghalaya; **heavy to very heavy rainfall** at isolated places over Assam, Arunachal Pradesh and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Konkan & Goa and Coastal Karnataka.

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

♦ **Squally Weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Kerala, along and off south Maharashtra, Goa, Karnataka coasts, east central Bay of Bengal and adjoining north east Bay of Bengal. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

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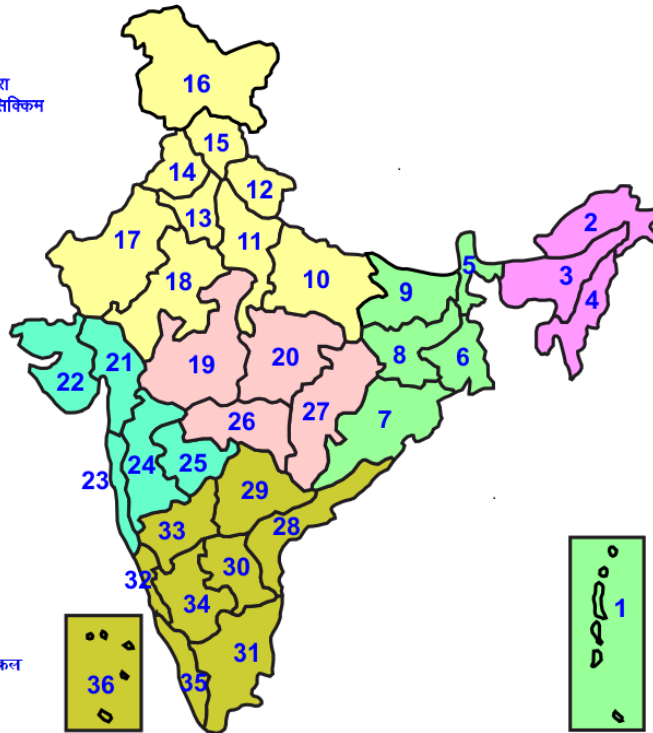
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm *
Extremely Heavy: > 204.4 mm/cm *



Heat Wave

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c) Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.



Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\geq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ or actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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