



Tuesday 07 June 2022

MID-DAY

Time of Issue: 1345 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advancement of Southwest Monsoon:

◆ Southwest Monsoon has further advanced over some more parts of Tamilnadu, Puducherry & Karaikal, southwest & westcentral Bay of Bengal.

◆ The Northern Limit of Monsoon (NLM) now passes 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.

Rainfall/thunderstorm Forecast & Warnings:

◆ Under the influence of north south trough roughly along Long. 90°E & to north of Lat. 22°N and strong southwesterly winds from Bay of Bengal to northeast India in lower tropospheric levels:

i) Widespread light/moderate rainfall with isolated **heavy to very heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya during next 5 days; Sub-Himalayan West Bengal & Sikkim during 08th-11th and over Nagaland, Manipur, Mizoram & Tripura during 09th-11th June. Isolated **extremely heavy rainfall** also likely over Assam & Meghalaya during 09th-11th June, 2022.

ii) Isolated/scattered rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 5 days.

◆ Due to westerly winds from Arabian Sea over South Peninsular India in lower tropospheric levels:

i) Fairly widespread/ widespread light/moderate rainfall with thunderstorm/lightning very likely over Karnataka, Kerala & Mahe and Lakshadweep; scattered over Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and isolated activity over Telangana during next 5 days.

ii) Isolated **heavy rainfall** very likely over Tamilnadu on 07th; South Interior Karnataka on 07th & 08th; Coastal Karnataka during 09th-11th and over Kerala & Mahe during 07th-11th June, 2022.

Heat wave warnings:

◆ Heat wave conditions in isolated places very likely over

i) Jammu Division, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Delhi & East Madhya Pradesh during 07th-09th

ii) Uttar Pradesh, Jharkhand and West Madhya Pradesh on 07th & 08th;

iii) West Rajasthan and Vidarbha on 07th June;

iv) Odisha during 08th-10th June.

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 Andaman & Nicobar Islands; at many places over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and **at a few places over** Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal, Coastal & South Interior Karnataka, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and **at isolated places** over Jammu & Kashmir, Odisha, Bihar, Konkan & Goa, Chhattisgarh, Telangana, Rayalaseema and North Interior Karnataka.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Assam and Tamilnadu, Puducherry & Karaikal.

◆ **Chief amount of Rainfall observed: ((from 0830 hours IST of yesterday to 0830 hours IST of today):**(7 cm or more): **Sub-Himalayan West Bengal:** North Dinajpur: Raiganj-10; **Meghalaya:** Sohra-9, Tikrikilla, Mawsynram & Khliehriat -7each; **Coastal Andhra Pradesh:** East Godavari: Kakinada-9, Tuni-5, **Kerala:** Ernakulam: Kochi-8; **Andaman & Nicobar Islands:** North & Middle Andaman: Long Island-8; **Tamilnadu:** Thiruchirappalli: Tiruchirappalli Town-7; **Tiruvannamalai:** Tiruvannamalai-7; **Pudukkottai:** PERUNGALUR & ANNAVASAL-7; **Ramanathapuram:** Thondi-7; **Thiruchirappalli:** Ponmalai-7, Tiruchirappalli Junction-7, **Tirupathur:** Ambur-7.

◆ **Isolated heavy rainfall** observed over Meghalaya, Kerala, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands and Tamilnadu, Puducherry & Karaikal.

◆ **Yesterday, Heat Wave Conditions** prevailed over some parts of Delhi; at isolated pockets of Punjab, Uttarakhand, West Rajasthan, Haryana, Uttar Pradesh, East Madhya Pradesh, Vidarbha and Jharkhand.

◆ **Maximum Temperature Departures (as on 06-06-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab and Vidarbha; at a few places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh and Jharkhand and at isolated places over West Rajasthan and West Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at many place over Coastal Karnataka, Kerala & Mahe and Nagaland, Manipur, Mizoram & Tripura; at a few places over Chhattisgarh and Odisha and at isolated places over East Rajasthan, Gujarat State, Tamilnadu, Puducherry & Karaikal, Bihar, Gangetic West Bengal and Assam & Meghalaya. They were **markedly below normal (-5.1°C to less)** at many places over Coastal Andhra Pradesh & Yanam; at a few places over Rayalaseema; **below normal (-1.6°C to -3.0°C)** at a few places over North Interior Karnataka and at isolated places over Telangana and Andaman & Nicobar Islands and near normal over rest parts of the country. **Yesterday**, the highest maximum temperature of **46.8°C** was reported at Banda (East Uttar Pradesh).

◆ **Minimum Temperature Departures (as on 07-06-2022):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at many places over Himachal Pradesh, Uttarakhand and Punjab; at a few places over East Rajasthan; **above normal (1.6°C to 3.0°C)** at many places over Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, West Bengal & Sikkim, Vidarbha; at a few paces over Odisha, Bihar ; at isolated places over East Madhya Pradesh, West Rajasthan, Marathawada, Kerala & Mahe. They are **below normal (-1.6°C to -3.0°C)** at most places over Coastal Andhra Pradesh & Yanam, Andaman-Nicobar Islands and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the **lowest minimum** temperature of **20.8°C** reported at Belgaum (**North Interior Karnataka**) over the plains of the country.

Meteorological Analysis (Based on 0830 hours IST)

- ◆ Southwest Monsoon has further advanced over some more parts of Tamilnadu, Puducherry & Karaikal, southwest & Westcentral Bay of Bengal.
- ◆ The **Northern Limit of Monsoon (NLM)** now passes 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 mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 72°E & to north of Lat.28°N now seen as a cyclonic circulation over Himachal Pradesh & neighbourhood at 5.8 km above mean sea level.
- ◆ The cyclonic circulation over East Uttar Pradesh & neighbourhood now lies over central parts of Uttar Pradesh and extends upto 0.9 km above mean sea level.
- ◆ The trough now runs from above cyclonic circulation over central parts of Uttar Pradesh to Rayalaseema across East Madhya Pradesh, Vidarbha and Telangana at 0.9 km above mean sea level.
- ◆ The east-west trough now runs from cyclonic circulation over central parts of Uttar Pradesh to north Bangladesh across Bihar and Sub-Himalayan West Bengal & Sikkim at 0.9 km above mean sea level.
- ◆ The cyclonic circulation over Eastcentral Bay of Bengal now lies over Southeast Bay of Bengal between 5.8 km & 7.6 km above mean sea level.
- ◆ The trough from Eastcentral Bay of Bengal to south Sri Lanka now runs from Eastcentral Bay of Bengal to Southwest Bay of Bengal off Tamilnadu coast between 3.1 km & 4.5 km above mean sea level.
- ◆ The north-south trough roughly along Long. 90°E & to north of Lat. 22°N at 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over East Rajasthan & neighbourhood at 3.1 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over East Jharkhand & neighbourhood at 1.5 km above mean sea level has become less marked.

Weather Forecast for next 5 days * upto 0830 hours IST of 12th 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 most parts of Northwest & Central India during next 3 days and gradual fall 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 12th June-14th 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.
- ◆ Isolated to scattered rainfall likely over 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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Weather Warning during next 5 days *

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

♦**Thunderstorm accompanied with lightning/gusty winds (speed 50-60 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **with lightning/gusty winds (speed 30-40 kmph)** over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave conditions** in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Jharkhand and Vidarbha.

♦ **Warm night conditions** in isolated places very likely over Vidarbha.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and adjoining south east Arabian Sea, south west Bay of Bengal, north Tamil Nadu, gulf of Mannar, Comorin area, north Andaman Sea and adjoining east central Bay of Bengal. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, north Andaman Sea. Fishermen are advised not to venture into these sea.

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

♦**Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands, Gangetic West Bengal; **with lightning/gusty winds (speed 30-40 kmph)** over Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Konkan & Goa, Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave conditions** in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Jharkhand and Odisha.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and adjoining south east Arabian Sea, along and off south Maharashtra, Goa and Konkan coasts, south west Bay of Bengal, north Tamil Nadu, gulf of Mannar, Comorin area, north Andaman Sea and adjoining east central 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.

09 June (Day 3): ♦ 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 Sub-Himalayan West Bengal & Sikkim, Assam and Arunachal Pradesh and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.

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

♦ **Heat wave conditions** in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh and Odisha.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, south Maharashtra, Goa and Konkan coasts, north Andaman Sea and adjoining east central 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.

10 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 Sub-Himalayan West Bengal & Sikkim, Assam and Arunachal Pradesh and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.

♦**Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, East Rajasthan, Vidarbha, Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Gujarat state, Konkan & Goa, Madhya Maharashtra, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Heat wave conditions** in isolated places likely over Odisha.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, south Maharashtra, Goa and Konkan coasts, north Andaman Sea and adjoining east central 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.

11 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 Sub-Himalayan West Bengal & Sikkim, Assam and Arunachal Pradesh and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.

♦**Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Vidarbha, Chhattisgarh; **gusty winds (speed 40-50 kmph)** at isolated places, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, East Rajasthan, Bihar, Odisha, Andaman & Nicobar Islands, Gujarat state, Madhya Maharashtra, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, south Maharashtra, Goa and Konkan coasts. **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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Table-1
5 Day Rainfall Forecast (MID-DAY)
07-June-2022

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

% Station Reporting Rainfall

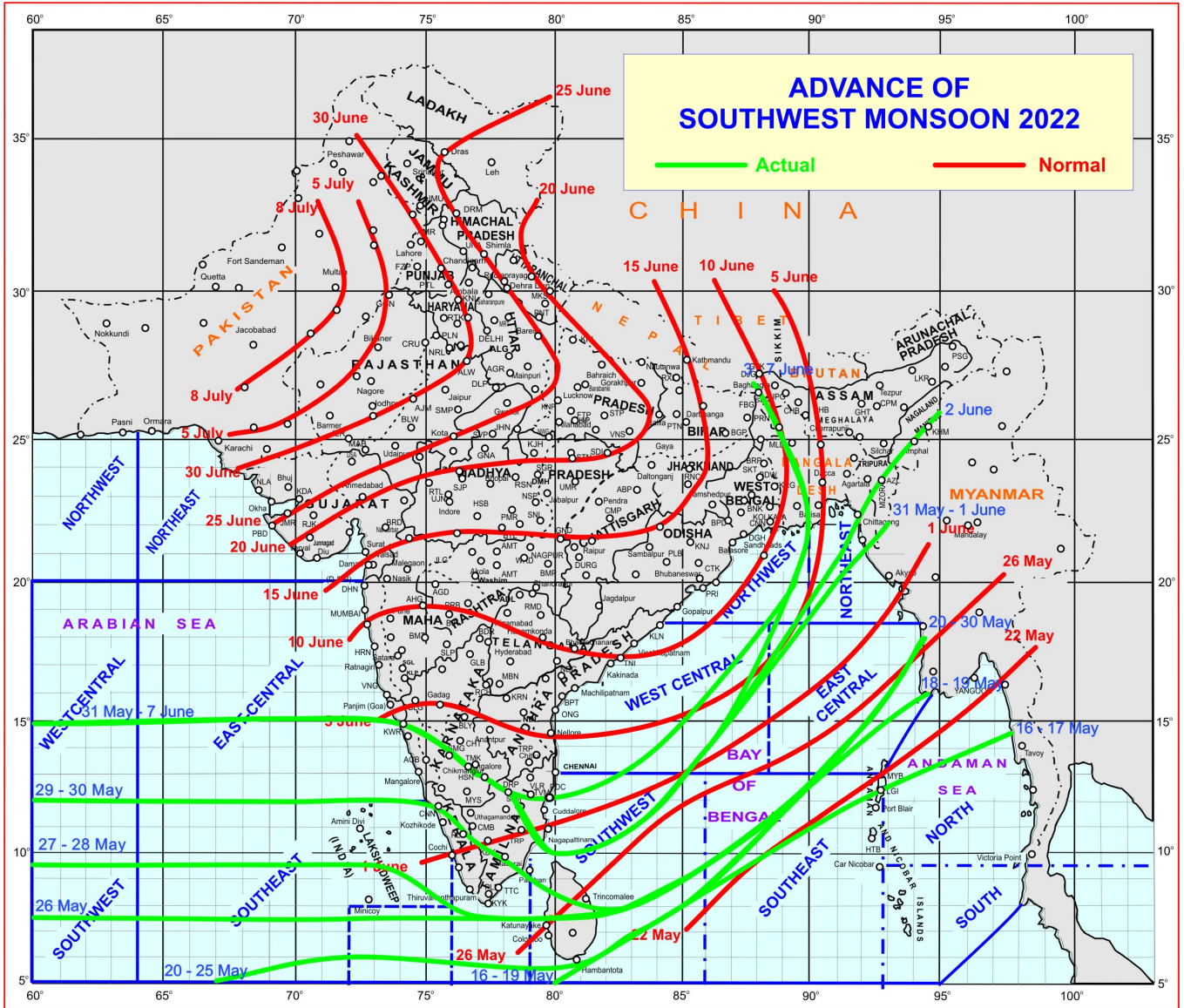
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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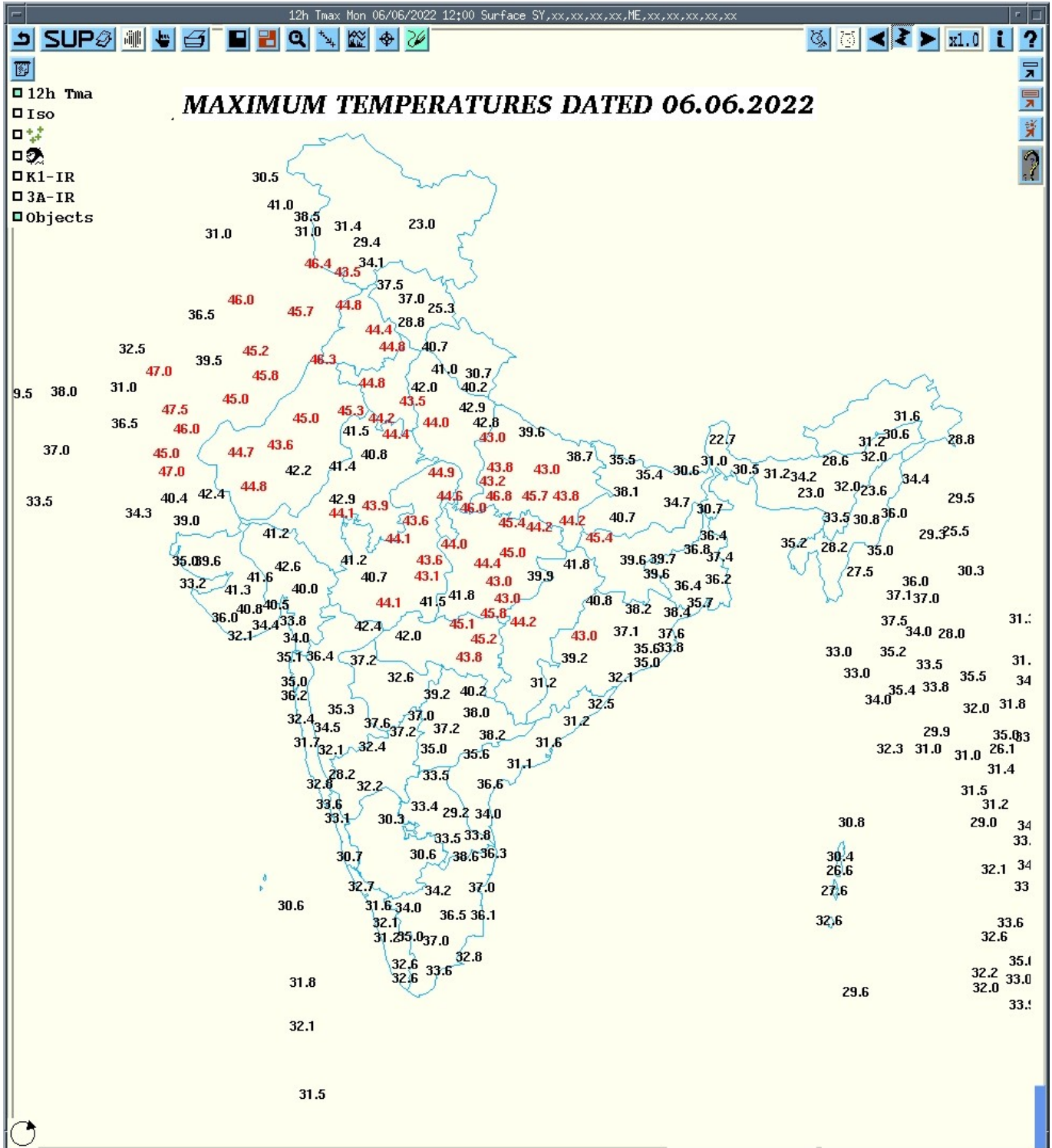
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Fig. 2: Maximum Temperature during past 24 hours



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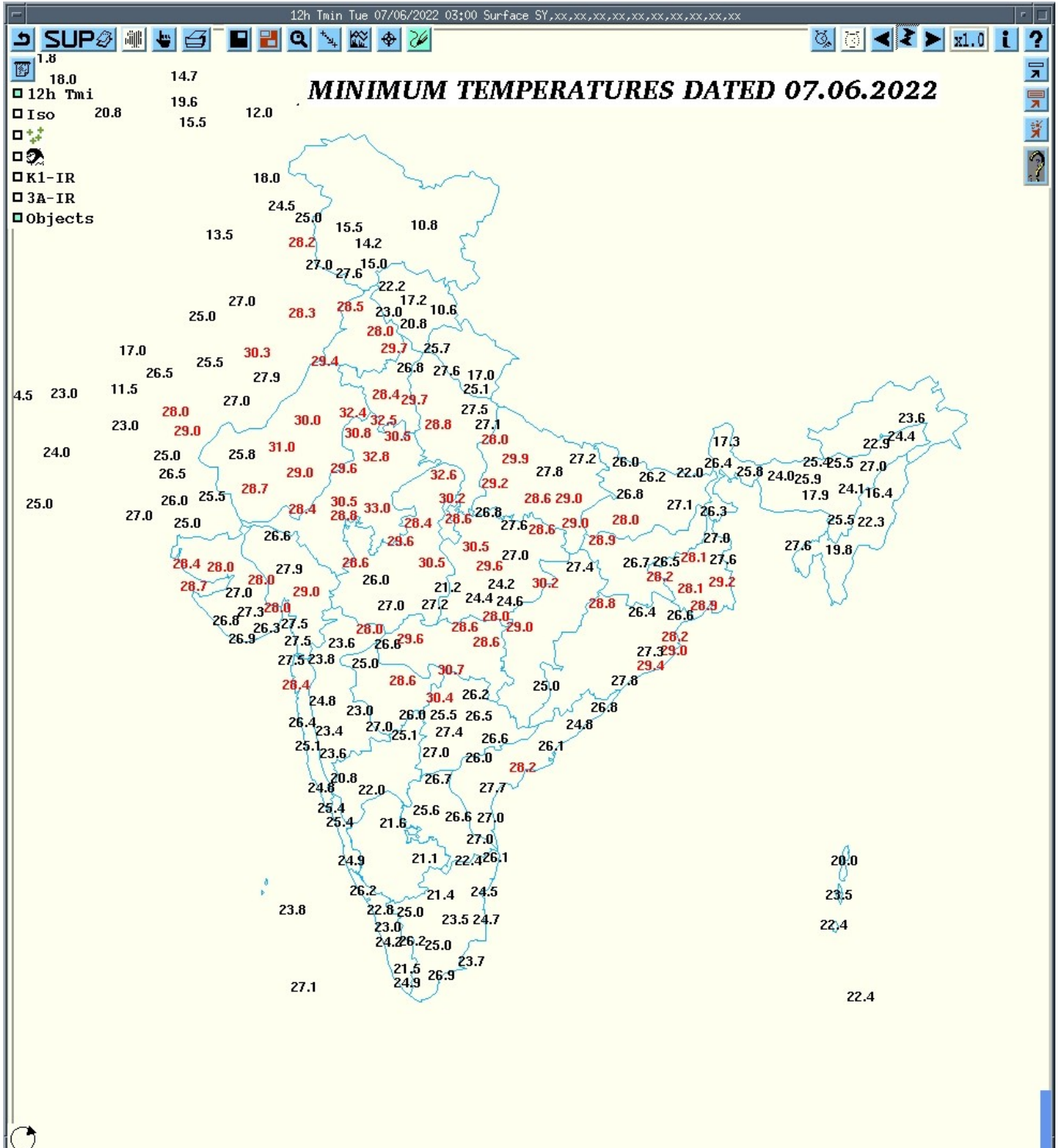
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Fig. 3: Minimum Temperature during past 24 hours



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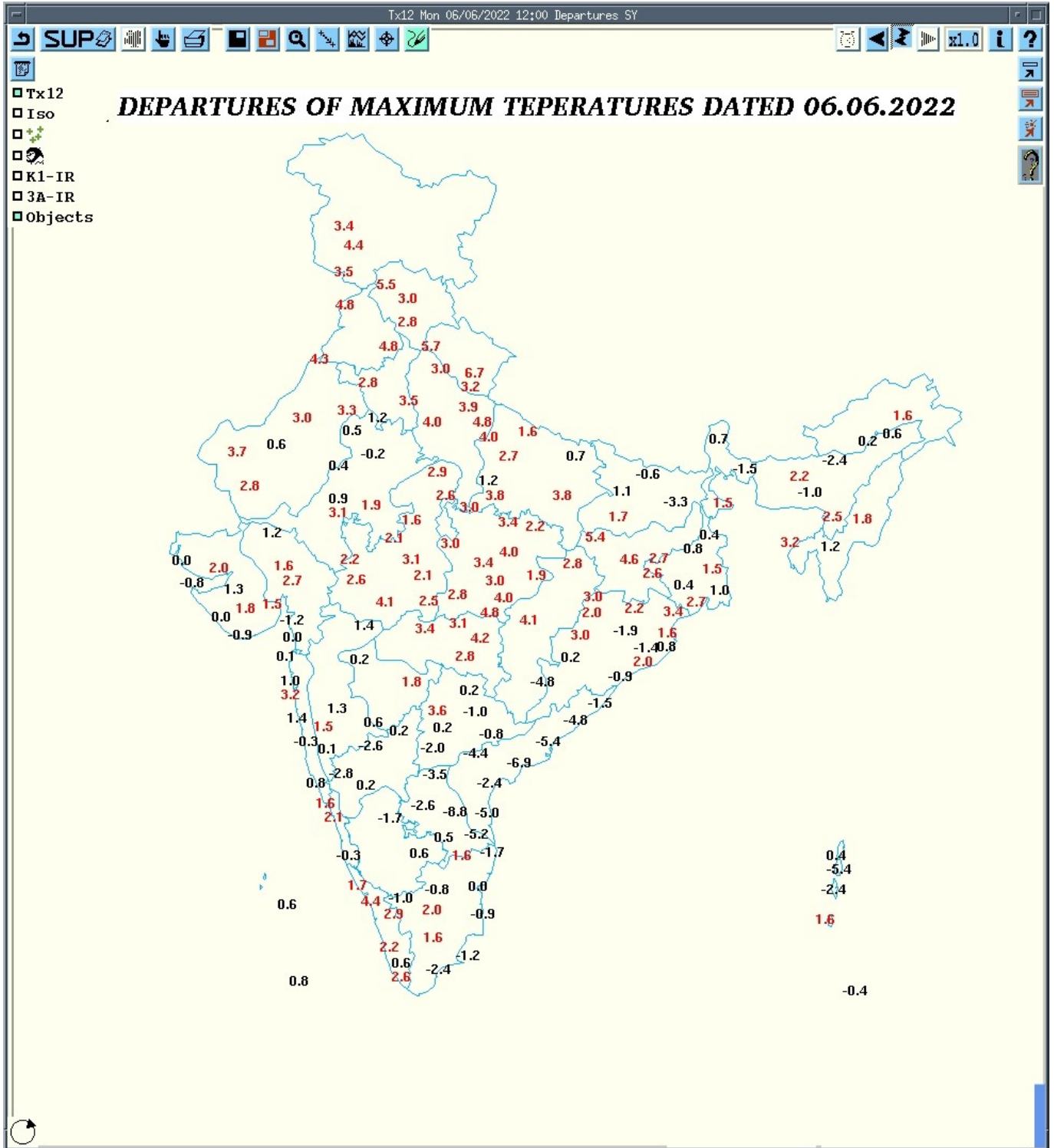
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Fig. 4 : Departure from Normal of Maximum Temperatures



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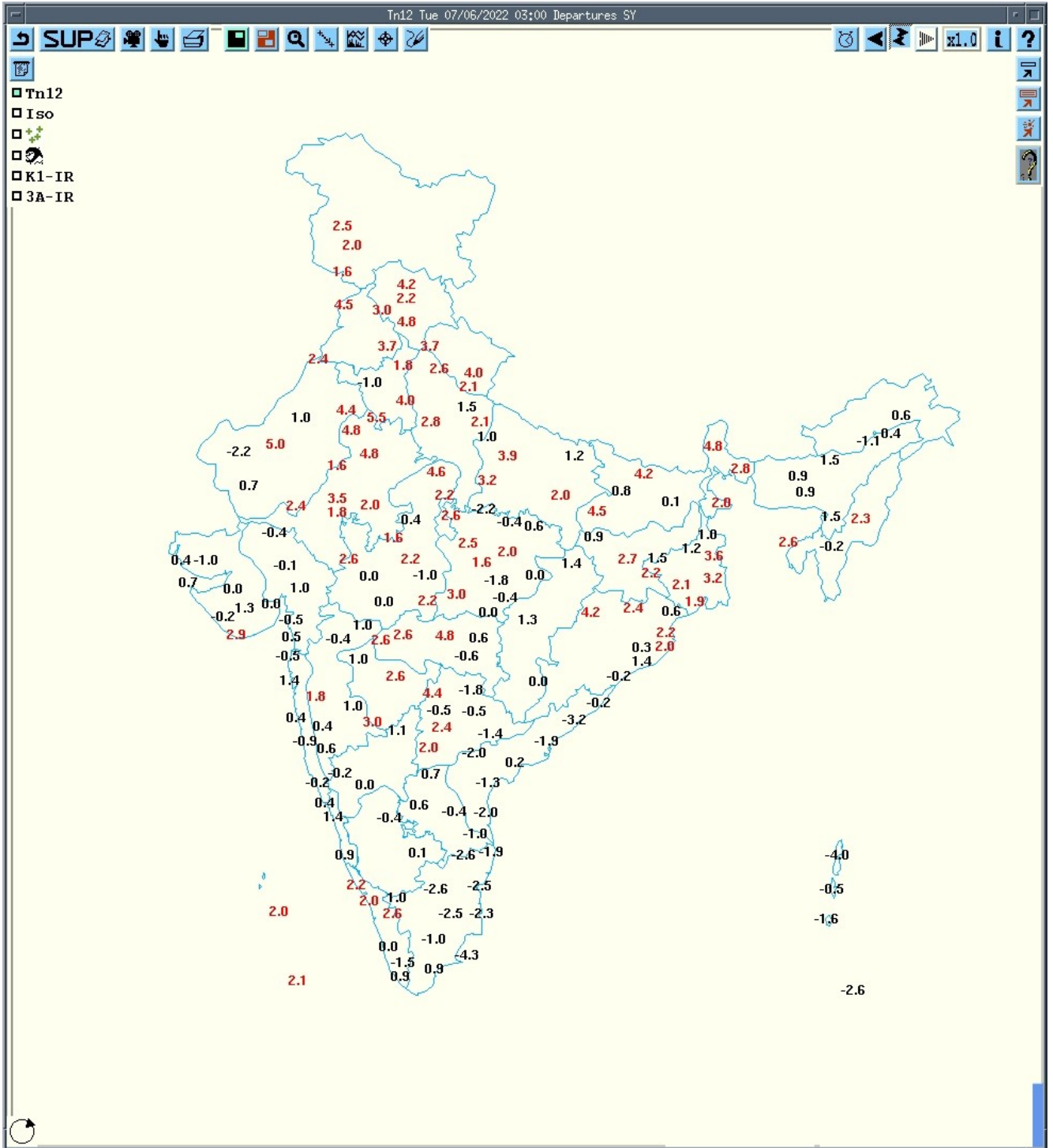
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Fig. 5 : Departure from Normal of Minimum Temperatures



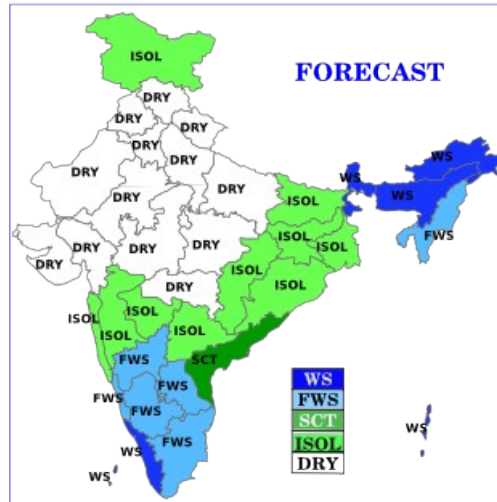
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Tuesday 07 June 2022



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

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 50-60 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **with lightning/gusty winds (speed 30-40 kmph)** over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada. Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave conditions** in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Jharkhand and Vidarbha.

♦ **Warm night conditions** in isolated places very likely over Vidarbha.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and adjoining south east Arabian Sea, south west Bay of Bengal, north Tamil Nadu, gulf of Mannar, Comorin area, north Andaman Sea and adjoining east central Bay of Bengal. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, north Andaman Sea. Fishermen are advised not to venture into these sea.

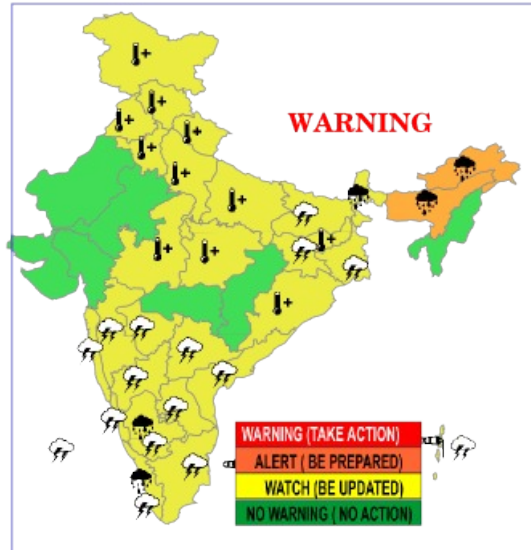
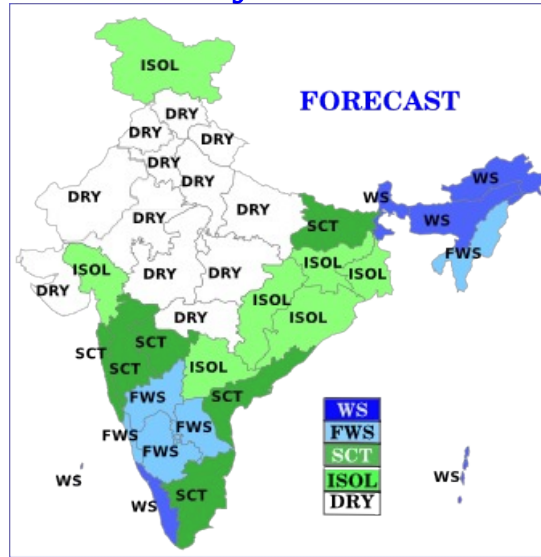
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Wednesday 08 June 2022



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

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands, Gangetic West Bengal; **with lightning/gusty winds (speed 30-40 kmph)** over Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Konkan & Goa, Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave conditions** in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Jharkhand and Odisha.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and adjoining south east Arabian Sea, along and off south Maharashtra, Goa and Konkan coasts, south west Bay of Bengal, north Tamil Nadu, gulf of Mannar, Comorin area, north Andaman Sea and adjoining east central 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.

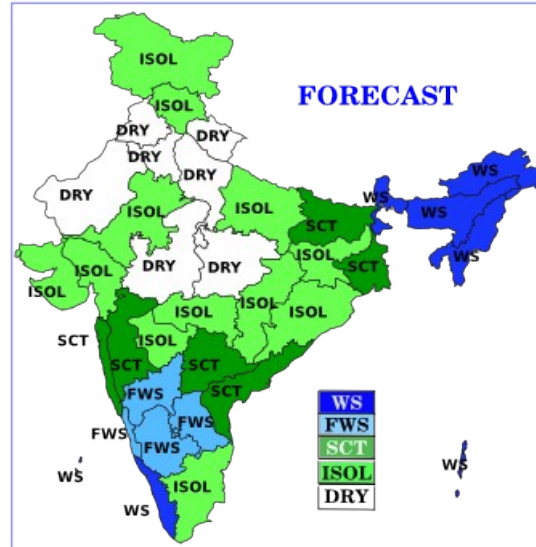
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(Circle as the National flag 4870)

Thursday 09 June 2022



09 June (Day 3): ♦ **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 Sub-Himalayan West Bengal & Sikkim, Assam and Arunachal Pradesh and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.

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

♦ **Heat wave conditions** in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh and Odisha.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, south Maharashtra, Goa and Konkan coasts, north Andaman Sea and adjoining east central 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.

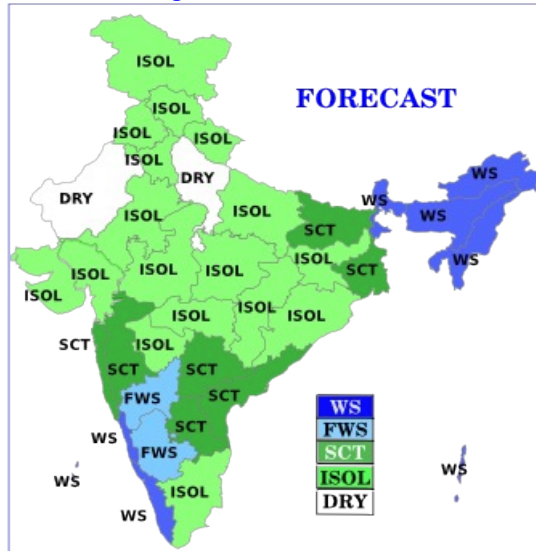
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(Created by the MeteoApp 1.07.0)

Friday 10 June 2022



10 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 Sub-Himalayan West Bengal & Sikkim, Assam and Arunachal Pradesh and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, East Rajasthan, Vidarbha, Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Gujarat state, Konkan & Goa, Madhya Maharashtra, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Heat wave conditions** in isolated places likely over Odisha.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, south Maharashtra, Goa and Konkan coasts, north Andaman Sea and adjoining east central 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.

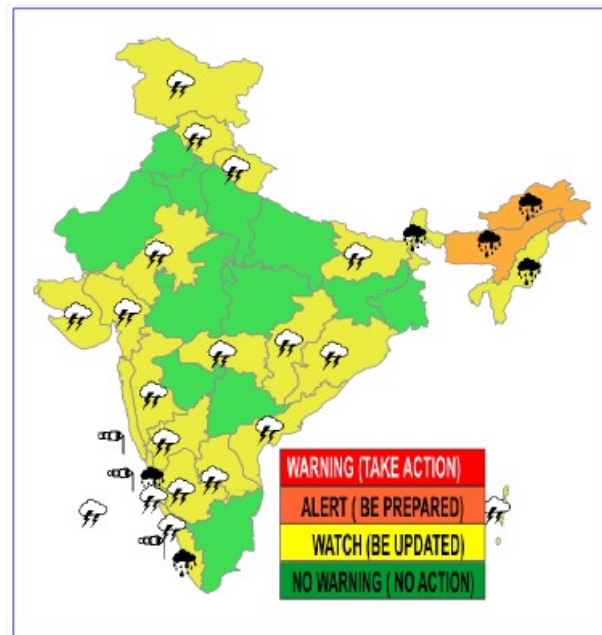
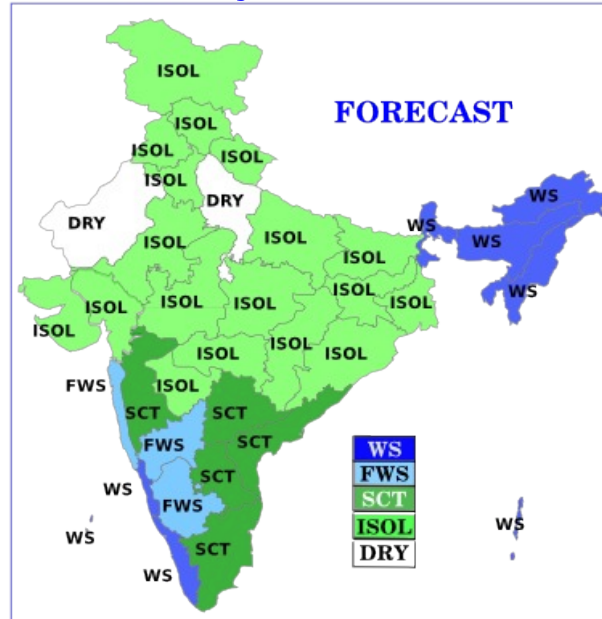
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Saturday 11 June 2022



11 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 Sub-Himalayan West Bengal & Sikkim, Assam and Arunachal Pradesh and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Vidarbha, Chhattisgarh; **gusty winds (speed 40-50 kmph)** at isolated places, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, East Rajasthan, Bihar, Odisha, Andaman & Nicobar Islands, Gujarat state, Madhya Maharashtra, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, south Maharashtra, Goa and Konkan coasts. **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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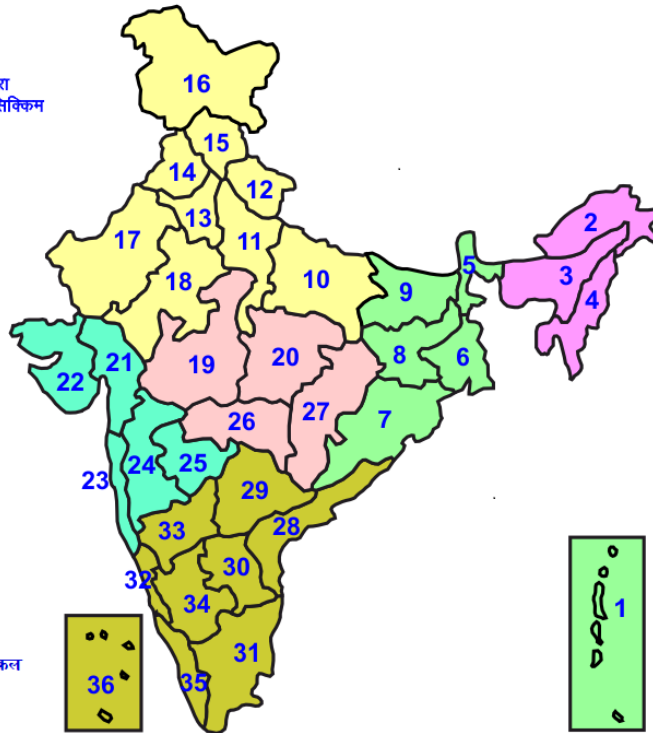
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LEGENDS

- 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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