



Wednesday 08 June 2022

**EVENING**

Time of Issue: 1645 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.

**Rainfall/thunderstorm Forecast & Warnings:**

◆ Under the influence of north-south trough roughly along Long. 90°E & to north of Lat. 20°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, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura during next 5 days. Isolated **extremely heavy rainfall** also likely over Arunachal Pradesh and Meghalaya on 10th & 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. Isolated **heavy rainfall** likely over Bihar today.

◆ Due to shear zone along Lat.11°N at mid tropospheric levels and 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 rainfall over Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and Telangana during next 5 days.

ii) Isolated **heavy rainfall** very likely over Tamilnadu, Puducherry & Karaikal on 08th; Kerala & Mahe during 08th, 10th, 11th & 12th June; over South Interior Karnataka on 12th and over Coastal Karnataka during 10th-12th June, 2022.

iii) Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Konkan & Goa and Madhya Maharashtra during next 5 days. Isolated heavy rainfall likely over Konkan & Goa on 11th & 12th June.

**Heat wave warnings:**

i) Heat wave conditions in isolated places very likely over

ii) Jammu Division, Himachal Pradesh, West Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh on 08th;

iii) Uttarakhand, Punjab, Haryana-Delhi, Uttar Pradesh, Jharkhand, Telangana & East Madhya Pradesh on 08th & 09th;

iv) Odisha during 08th-10th 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 Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at a few places over Gangetic West Bengal, Konkan & Goa and Interior Karnataka and at isolated places over Jammu & Kashmir, Himachal Pradesh, Odisha, Jharkhand, Bihar, Gujarat state, Madhya Maharashtra, Chhattisgarh, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

◆ **Thunderstorm observed (from 0830 hours IST to 1430 hours IST of today):** at isolated places over Jammu & Kashmir.

◆ **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: Jalpaiguri: Domohani, Falakata-10 each, Jalpaiguri-7, East Sikkim: Gangtok-9, Darjeeling: Rongo-9; Meghalaya: Sohra-10, Mawsynram-7; Assam: Tangala-10, Arunachal Pradesh: Tuting-9 Hatsingimari-8; Nagaland: Kiphire-7; Saurashtra: Amreli: Lathi-7.

◆ Isolated heavy rainfall occurred over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Sub-Himalayan West Bengal & Sikkim and Saurashtra.

◆ **Yesterday, Heat Wave Conditions** prevailed over some parts of east Vidarbha and at isolated pockets of Uttarakhand, Punjab, Haryana-Delhi, northwest Rajasthan, southeast Uttar Pradesh and East Madhya Pradesh.

◆ **Maximum Temperature Departures (as on 07-06-2022):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Uttarakhand; **appreciably above normal (3.1°C to 5.0°C)** at most places over Jharkhand; at many places over Himachal Pradesh, Punjab, Telangana and Vidarbha; at a few places over Haryana, Chandigarh & Delhi and East Uttar Pradesh; at isolated places over Jammu & Kashmir, Madhya Pradesh, Odisha, Arunachal Pradesh and Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at most places over West Uttar Pradesh; at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over West Rajasthan, Chhattisgarh and Coastal Karnataka; at isolated places over Konkan & Goa, North Interior Karnataka and Kerala & Mahe. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Tamilnadu, Puducherry & Karaikal; at isolated places over Andaman & Nicobar Islands; **below normal (-1.6°C to -3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. **Yesterday**, the highest maximum temperature of **46.6°C** was reported at Banda (**East Uttar Pradesh**).

◆ **Minimum Temperature Departures (as on 08-06-2022):** Minimum temperatures are **markedly above normal (5.1°C or more)** at isolated places over Madhya Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at most places over Uttarakhand, Punjab and Haryana, Chandigarh & Delhi; at many places over Himachal Pradesh and Vidarbha; at a few places over West Rajasthan, West Uttar Pradesh and Telangana; at isolated places over East Uttar Pradesh, Bihar and Coastal Andhra Pradesh & Yanam; **above normal (1.6°C to 3.0°C)** at most places over Lakshadweep; at many places over Marathwada and East Rajasthan; at a few places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Chhattisgarh and Madhya Maharashtra; at isolated places over Gangetic West Bengal, Assam & Meghalaya, Odisha and Saurashtra & Kutch. They are **below normal (-1.6°C to -3.0°C)** at isolated places over Andaman-Nicobar Islands and Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Today, the **lowest minimum** temperature of **22.9°C** reported at Fatehgarh (**East 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, 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 east-west trough from north Punjab to Manipur across north Haryana, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal and Assam & Meghalaya at 0.9 km above mean sea level persists.
- ◆ The trough from north Chhattisgarh to Coastal Andhra Pradesh extending upto 1.5 km above mean sea level persists.
- ◆ The trough from Eastcentral Bay of Bengal to Southwest Bay of Bengal off Tamilnadu coast between 3.1 km & 4.5 km above mean sea level persists.
- ◆ The north-south trough roughly along Long. 90°E & to north of Lat. 20°N at 3.1 km above mean sea level persists.
- ◆ The shear zone runs roughly along Lat. 11°N across south peninsular India between 4.5 km & 7.6 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 13th June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Gradual fall by 2-3°C in maximum temperatures very likely over Gujarat and Maharashtra during next 5 days.
- ◆ 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 13th June-15th 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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## Weather Warning during next 5 days \*

**08 June (Day 1):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** at isolated places over Nagaland, Bihar, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Madhya Maharashtra, Marathwada, Konkan & Goa, Gujarat state, 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, Vidarbha, Chhattisgarh, Telangana, Jharkhand and Odisha.

♦ **Warm Night** 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 Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, south east Bay of Bengal. Fishermen are advised not to venture into these seas.

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

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

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

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea. Fishermen are advised not to venture into these seas.

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

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Andaman & Nicobar Islands, Madhya Pradesh, Vidarbha and Chhattisgarh; **gusty winds (speed 30-40 kmph)** at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, northeast Uttar Pradesh, Bihar, Odisha, Gujarat state, Konkan & Goa, Madhya Maharashtra, Karnataka, Telangana, 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 east central Arabian Sea, along and off north Kerala, south Maharashtra, Goa coasts 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.

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

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh; **gusty winds (speed 30-40 kmph)** at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Jammu-Kashmir, northeast Uttar Pradesh, Bihar, Odisha, Gujarat state, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka, Telangana, Kerala & Mahe and Lakshadweep.

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

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

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Madhya Pradesh, Vidarbha; **gusty winds (speed 30-40 kmph)** at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Jammu-Kashmir, northeast Uttar Pradesh, Bihar, Odisha, Madhya Maharashtra, Karnataka, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Kerala, south Maharashtra and Goa 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 (EVENING)**  
**08-June-2022**

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

**% Station Reporting Rainfall**

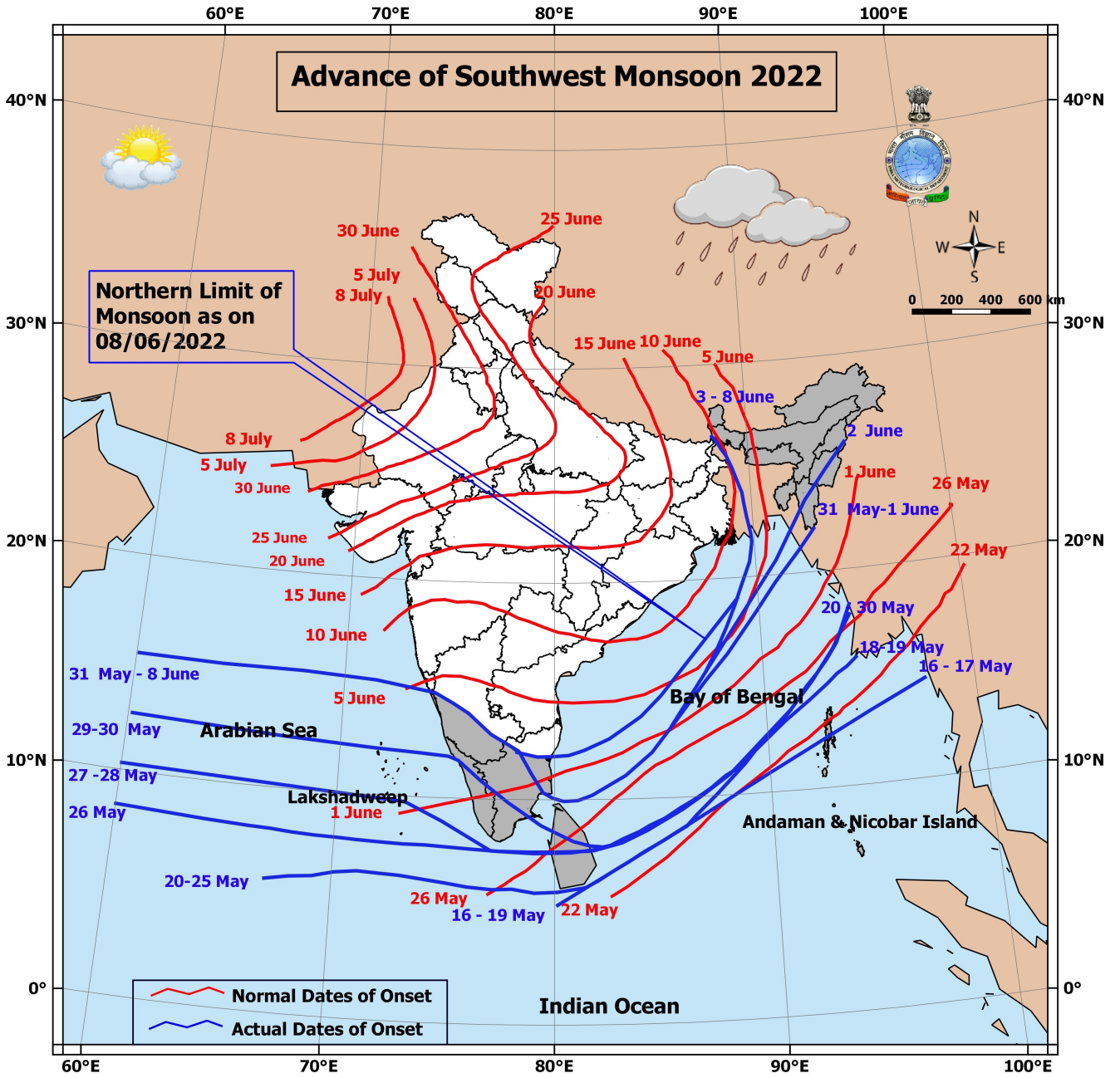
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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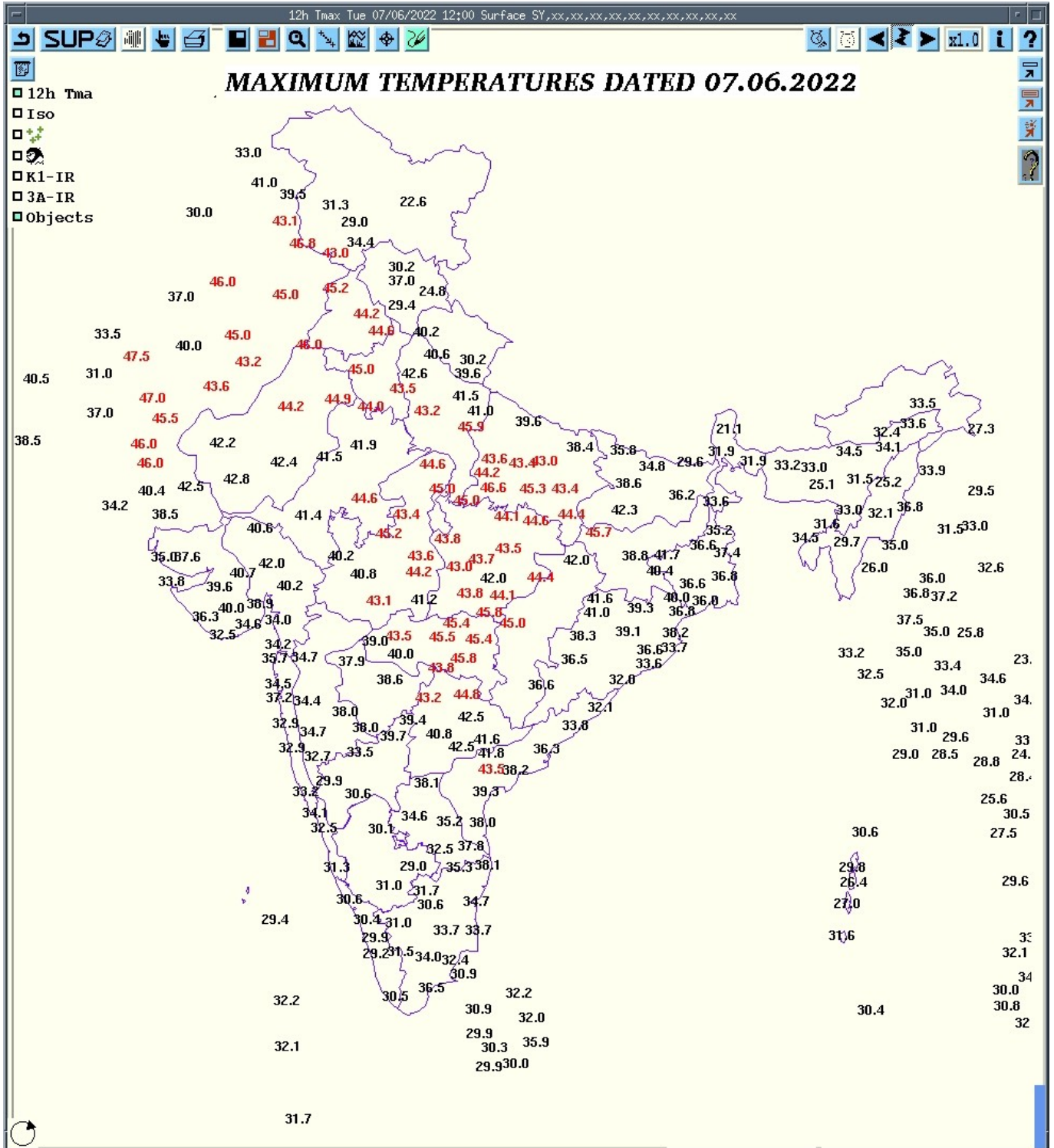
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Fig. 2: Maximum Temperature during past 24 hours



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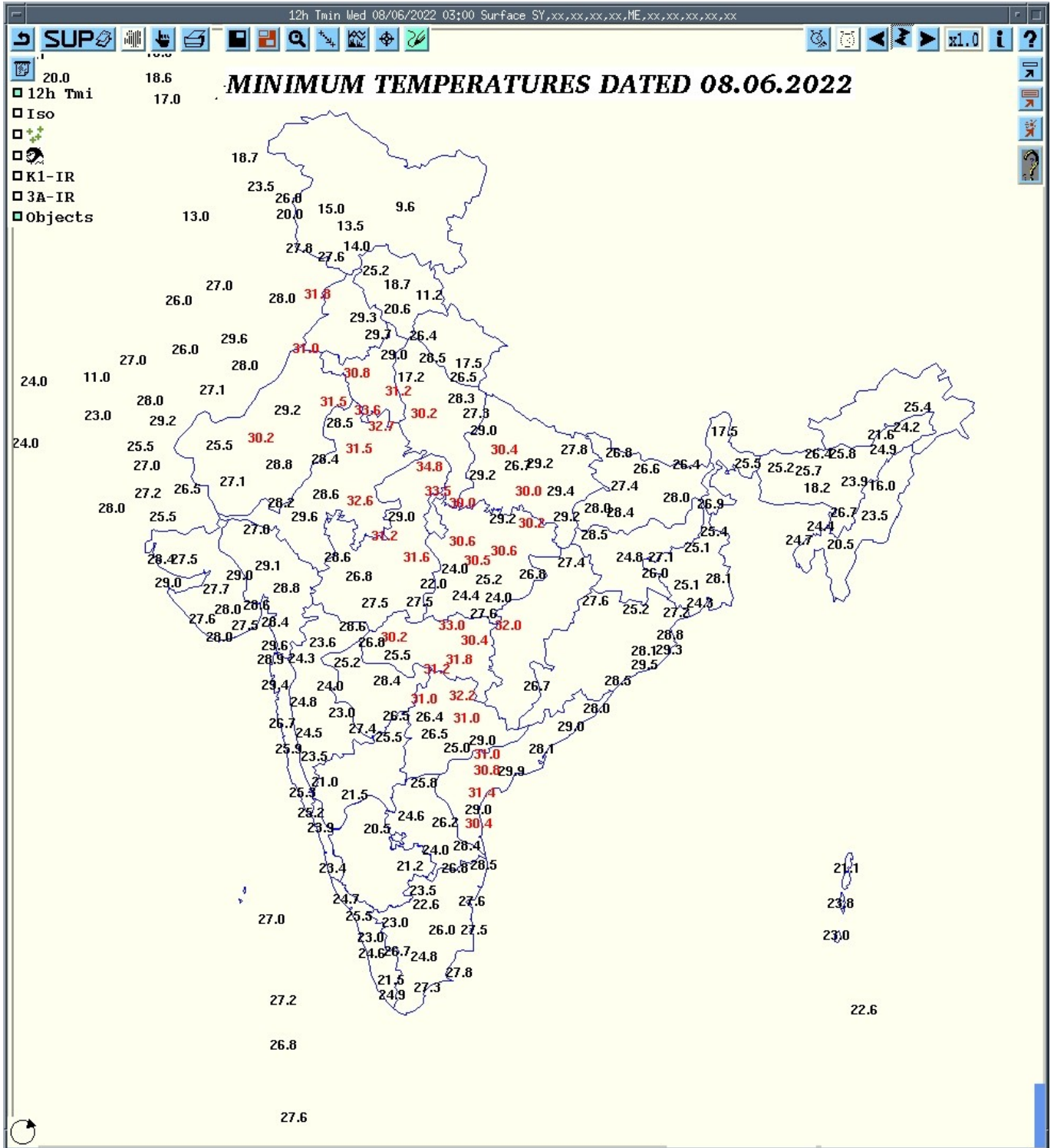
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Fig. 3: Minimum Temperature during past 24 hours



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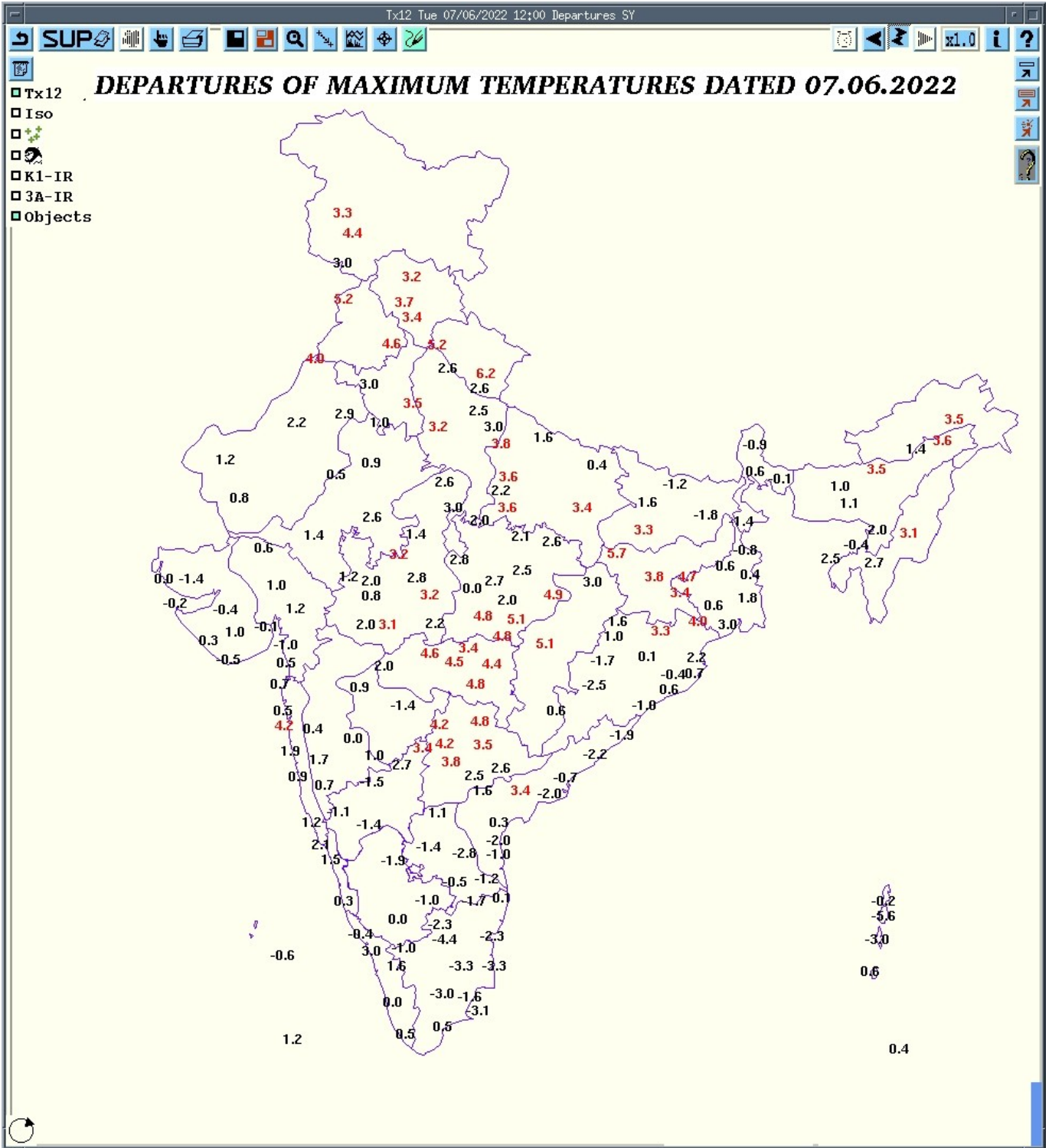
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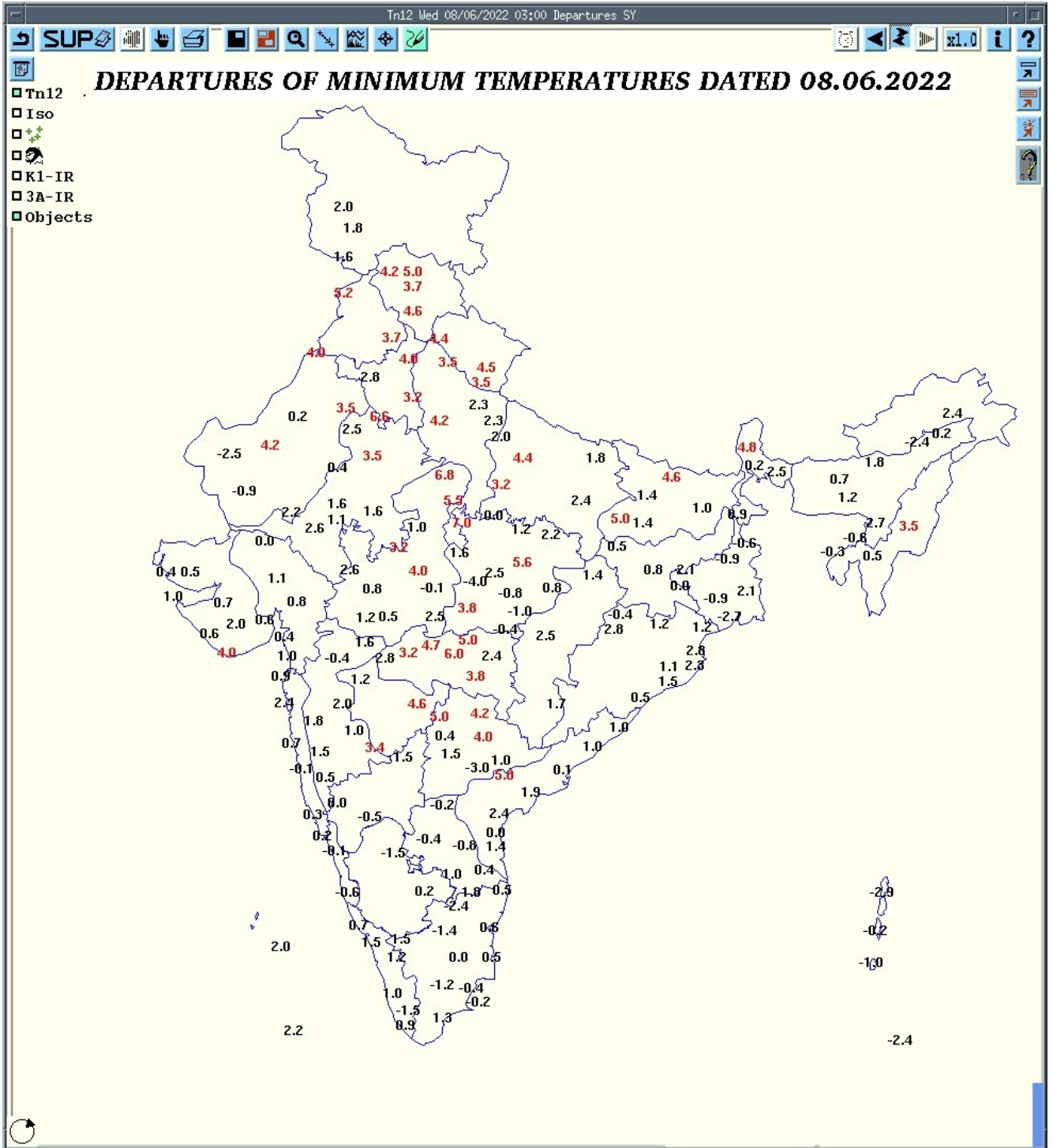
Fig. 4 : Departure from Normal of Maximum Temperatures



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Fig. 5 : Departure from Normal of Minimum Temperatures



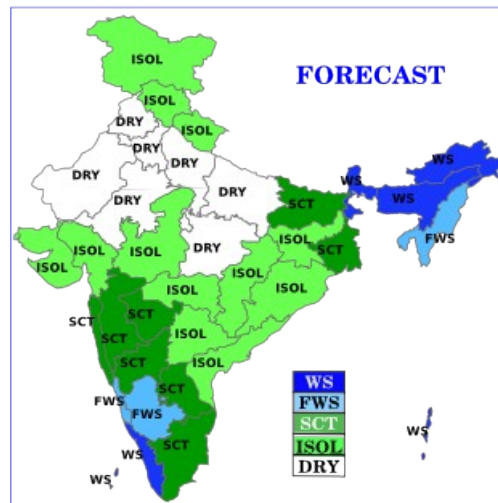
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## Wednesday 08 June 2022



**08 June (Day 1):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** at isolated places over Nagaland, Bihar, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Madhya Maharashtra, Marathwada, Konkan & Goa, Gujarat state, 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, Vidarbha, Chhattisgarh, Telangana, Jharkhand and Odisha.

♦ **Warm Night** 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 Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, south east Bay of Bengal. Fishermen are advised not to venture into these seas.

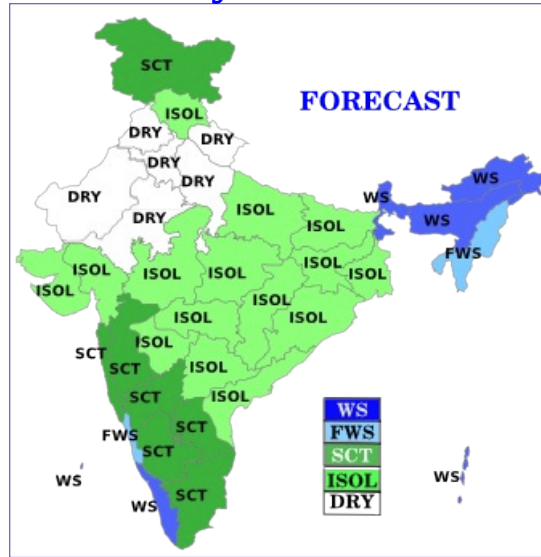
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## Thursday 09 June 2022



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

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

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

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea. Fishermen are advised not to venture into these seas.

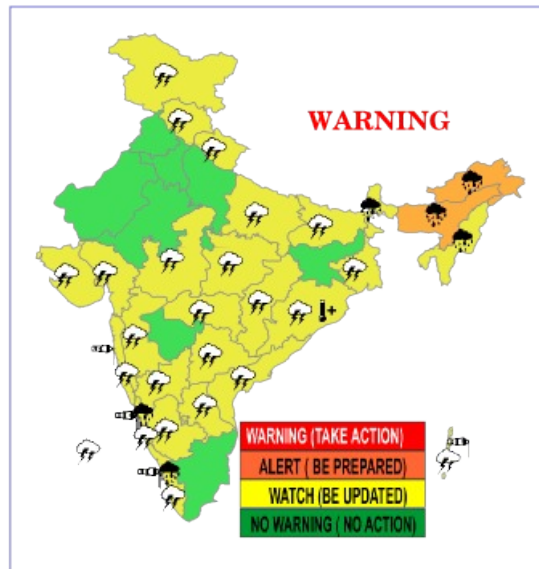
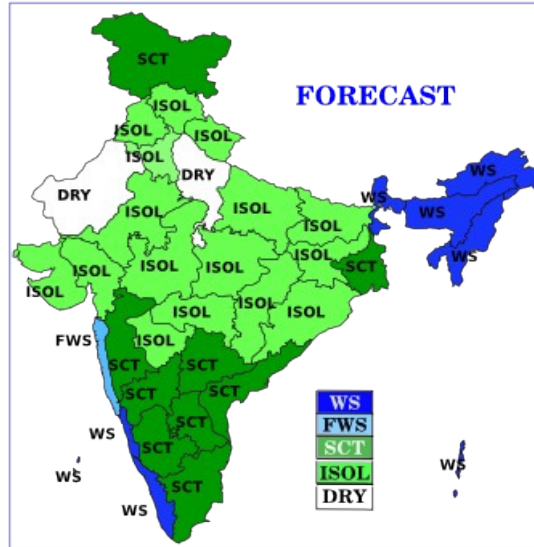
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(Copies to the Media only 487)

## Friday 10 June 2022



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

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Andaman & Nicobar Islands, Madhya Pradesh, Vidarbha and Chhattisgarh; **gusty winds (speed 30-40 kmph)** at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, northeast Uttar Pradesh, Bihar, Odisha, Gujarat state, Konkan & Goa, Madhya Maharashtra, Karnataka, Telangana, 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 east central Arabian Sea, along and off north Kerala, south Maharashtra, Goa coasts 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.

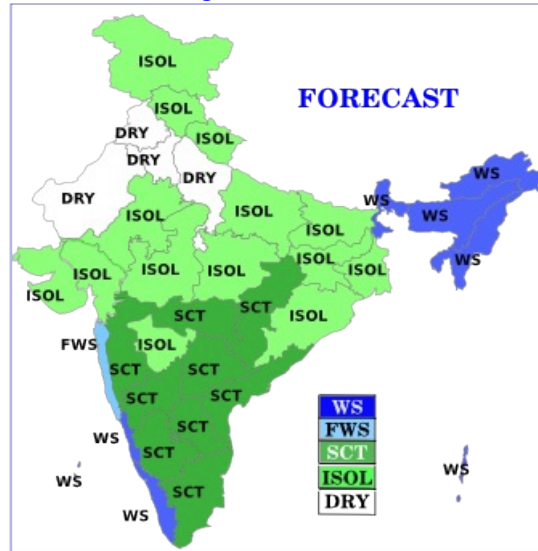
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(Circle as the National since 1975)

## Saturday 11 June 2022



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

♦ Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh; gusty winds (speed 30-40 kmph) at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Jammu-Kashmir, northeast Uttar Pradesh, Bihar, Odisha, Gujarat state, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka, Telangana, Kerala & Mahe and Lakshadweep.

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

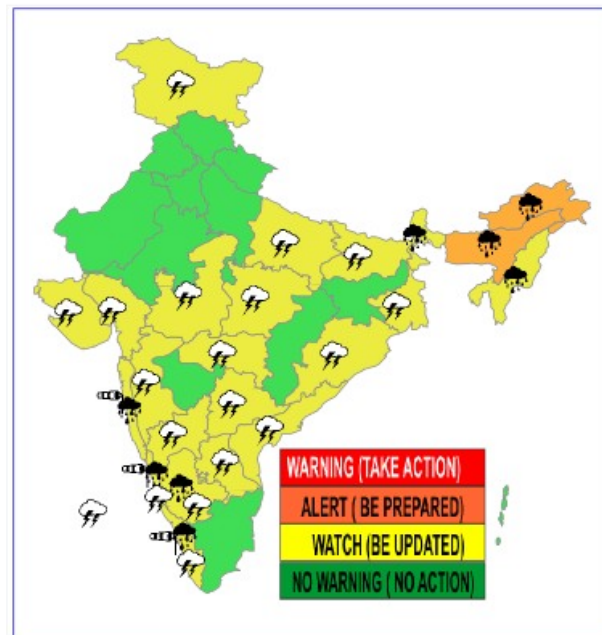
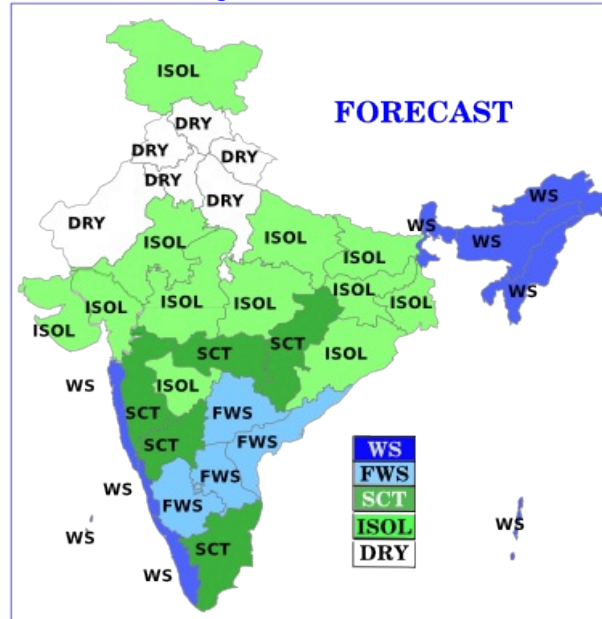
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## Sunday 12 June 2022



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

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Madhya Pradesh, Vidarbha; **gusty winds (speed 30-40 kmph)** at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Jammu-Kashmir, northeast Uttar Pradesh, Bihar, Odisha, Madhya Maharashtra, Karnataka, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Kerala, south Maharashtra and Goa 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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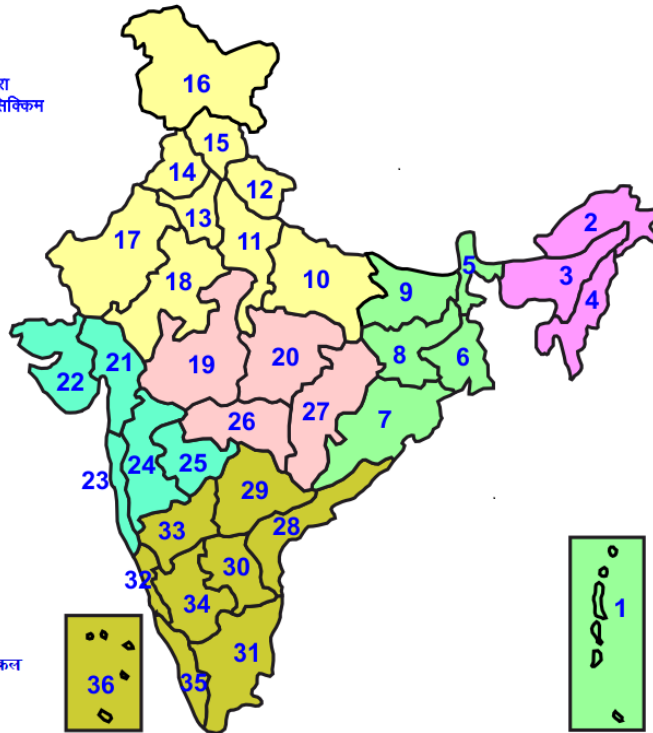
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## LEGENDS

- 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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## LEGENDS

### WARNING

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

### Probabilistic Forecast

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



Rain/ Snow \*

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



Heat Wave

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

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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

(b). Based on Actual maximum temperature

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

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

(c) Criteria for heat wave for coastal stations

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



Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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



Cold Wave

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

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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

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

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

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

(c) For Coastal Stations

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



Cold Day

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

Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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



Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph



Sea State

Effect of various waves in the sea over specific area

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

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

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



Cyclone

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

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

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

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

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

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