



Sunday 05 June 2022

**MID-DAY**

Time of Issue: 1245 hours IST

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

**Advancement of Southwest Monsoon:**

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

**Rainfall/thunderstorm Forecast & Warnings:**

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

i) Fairly widespread/ widespread light/moderate rainfall with isolated heavy to very heavy rainfall very likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim during next 5 days and over Arunachal Pradesh during 07th-09th June.

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

◆ **Increase in rainfall activity is likely over South Peninsular India from 07th June:**

i) Fairly widespread/ widespread light/moderate rainfall with thunderstorm/lightning very likely over Karnataka, Kerala & Mahe and Lakshadweep and isolated to scattered over Andhra Pradesh, Telangana & Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated **heavy rainfall** likely over South Interior Karnataka during next 5 days; over Tamilnadu on 06th & 07th; over Kerala & Mahe on 05th, 07th, 08th & 09th and over North Interior Karnataka on 08th June, 2022.

ii) **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely southwest Arabian Sea during next 3 days. Fishermen are advised not to venture into these areas.

**Heat wave warnings:**

◆ Heat wave conditions in isolated places very likely over

i) Jammu Division on 05th;

ii) Rajasthan, south Punjab, south Haryana-Delhi, Vidarbha, Chhattisgarh and Telangana on 05th & 06th

iii) south Uttar Pradesh, Madhya Pradesh, Jharkhand and interior Odisha during 05th-07th 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 Assam & Meghalaya, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and South Interior Karnataka; at many places over Arunachal Pradesh; at a few places over Kerala & Mahe and at isolated places over Jammu & Kashmir, Vidarbha, Bihar, Jharkhand, Odisha, Konkan & Goa, Telangana, Coastal & North Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at isolated places over Assam & Meghalaya, North Interior Karnataka, Tamilnadu and Nagaland, Manipur, Mizoram & Tripura.
- ◆ **Chief amount of Rainfall observed: (from 0830 hours IST of yesterday to 0830 hours IST of today): (1 cm or more): Assam:** Bilasipara, Karimganj-14 each, Dhubri-12, Hatsingimari-10, Hailakandi-9, Motunga, Matjuri, Gharmura, Bahalpur-7 each; **Meghalaya:** Tikrikilla-12, Sohra, Mineng-7 each; **Sub-Himalayan West Bengal & Sikkim:** Jalpaiguri: Neora-7, Darjeeling: Sevoke-8; **Tripura:** Udaipur-7; **Kerala:** Ernakulam: Aluva-8; **South Interior Karnataka:** Bengaluru Rural: Devanahalli-9.
- ◆ Isolated **heavy to very heavy rainfall** occurred over Assam & Meghalaya and **heavy rainfall** at isolated places over Tripura, Sub-Himalayan West Bengal & Sikkim, Kerala and South Interior Karnataka.
- ◆ **Yesterday**, Heat Wave Conditions observed in many places over Delhi and in isolated pockets over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana, South Uttar Pradesh, North Madhya Pradesh, Eastern parts of Vidarbha, North Rajasthan, Odisha and Chhattisgarh.
- ◆ **Maximum Temperature Departures (as on 04-06-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh; at a few places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Uttar Pradesh and Vidarbha and at isolated places over Rajasthan, Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at a few places over Marathwada, Telangana, Coastal Karnataka, Kerala & Mahe, Chhattisgarh and Odisha and at isolated places over Gujarat Region, Madhya Maharashtra, Rayalaseema and Assam & Meghalaya. They were **below normal (-1.6°C to -3.0°C)** at most places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Bihar, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. **Yesterday**, the highest maximum temperature of **47.5°C** was reported at **Ganganagar (West Rajasthan)**.
- ◆ **Minimum Temperature Departures (as on 05-06-2022):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at most places over Vidarbha; at many places over Marathwada; at a few places over Telangana and at isolated places over East Rajasthan, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at a few places over Himachal Pradesh, West Rajasthan, Madhya Pradesh, Chhattisgarh, Coastal Karnataka, Rayalaseema, Tamilnadu, Puducherry & Karaikal, West Bengal & Sikkim and Lakshadweep and at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar and Odisha and near normal over rest parts of the country. **Today**, the **lowest minimum** temperature of **22.5°C** is reported at Dhar (**West Madhya Pradesh**) over the plains of the country.

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### Meteorological Analysis (Based on 0830 hours IST)

- ◆ The **Northern Limit of Monsoon (NLM)** continues to pass through Lat. 15°N/ Long. 60°E, Lat. 15°N/ Long. 70°E, Karwar, Chikmagalur, Bengaluru, Dharmapuri, Lat. 10°N/ Long. 80°E, Lat. 11.0°N/ Long. 83°E, Lat.14.0°N/Long.86°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Siliguri and 27.50°N/88°E.
- ◆ The Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 67°E & to north of Lat. 29°N persists.
- ◆ A cyclonic circulation lies over West Rajasthan and adjoining Pakistan at 3.1 km above mean sea level.
- ◆ The cyclonic circulation over East Uttar Pradesh and neighbourhood extending upto 0.9 km above mean sea level persists.
- ◆ The trough now runs from above cyclonic circulation over East Uttar Pradesh to South Chhattisgarh at 0.9 km above mean sea level.
- ◆ The cyclonic circulation over Eastcentral and adjoining Southeast Bay of Bengal now lies over Eastcentral Bay of Bengal between 3.1 km & 7.6 km above mean sea level tilting southwestwards with height.
- ◆ The trough now runs from the above cyclonic circulation over Eastcentral Bay of Bengal to Comorin area across Sri Lanka at 3.1 km above mean sea level.
- ◆ A north-south trough runs roughly along Long. 89°E & to north of Lat. 22°N at 3.1 km above mean sea level.
- ◆ The east-west trough from the cyclonic circulation over East Uttar Pradesh to Nagaland across Bihar, Sub-Himalayan West Bengal and Assam at 0.9 km above mean sea level has become less marked.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 10th 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 India during next 4-5 days.
- ◆ No significant change in maximum temperatures very likely over most parts of Central India during next 2 days and fall by 2-3°C thereafter.
- ◆ Rise in maximum temperatures by about 2°C very likely over most parts of East India during next 3 days and no significant change 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 10th June-12th 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 over South Peninsular India and Western Himalayan Region.
- ◆ Isolated to scattered rainfall likely over plains of Northwest India, Gangetic West Bengal and Odisha.
- ◆ Dry weather likely over rest parts of the country.

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## Weather Warning during next 5 days \*

**05 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, Andaman & Nicobar Islands, Arunachal Pradesh, 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; **gusty winds (speed 30-40 kmph)** at isolated places over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Odisha, Madhya Maharashtra, Marathawada, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

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

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

**06 June (Day 2):** ♦ **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, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

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

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

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

**07 June (Day 3):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Andaman & Nicobar Islands, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Vidarbha, Chhattisgarh, Bihar, Odisha, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathawada, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

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

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over south west Arabian Sea. Fishermen are advised not to venture into these areas.

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

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

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

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

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**Table-1**  
**5 Day Rainfall Forecast (MID-DAY)**  
**05-June-2022**

Met-Sub-Division	05-Jun Today	06Jun Mon	07Jun Tue	08Jun Wed	09Jun Thu
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	FWS	FWS	WS	WS
5. S.H. West Bengal & Sikkim	WS	WS	WS	WS	WS
6. Gangetic West Bengal	SCT	ISOL	SCT	SCT	SCT
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	ISOL
9. Bihar	ISOL	ISOL	ISOL	SCT	SCT
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	DRY	DRY	DRY	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	DRY	DRY	DRY	DRY	DRY
16. J & K and Ladakh	ISOL	DRY	DRY	ISOL	ISOL
17. West Rajsthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	ISOL	ISOL
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	ISOL	ISOL	ISOL	SCT	SCT
24. Madhya Maharashtra	ISOL	ISOL	ISOL	SCT	SCT
25. Marathawada	ISOL	ISOL	ISOL	ISOL	ISOL
26. Vidharbha	DRY	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	DRY	ISOL	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	SCT	SCT
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	SCT	SCT	SCT	FWS	FWS
31. T.N.,Puducherry & Karaikal	SCT	SCT	SCT	SCT	ISOL
32. Coastal Karnataka	SCT	SCT	FWS	FWS	WS
33. North Interior Karnataka	SCT	SCT	FWS	WS	WS
34. South Interior Karnataka	FWS	FWS	FWS	WS	WS
35. Kerala & Mahe	FWS	FWS	WS	WS	WS
36. Lakshadweep	FWS	FWS	WS	WS	WS

**% Station Reporting Rainfall**

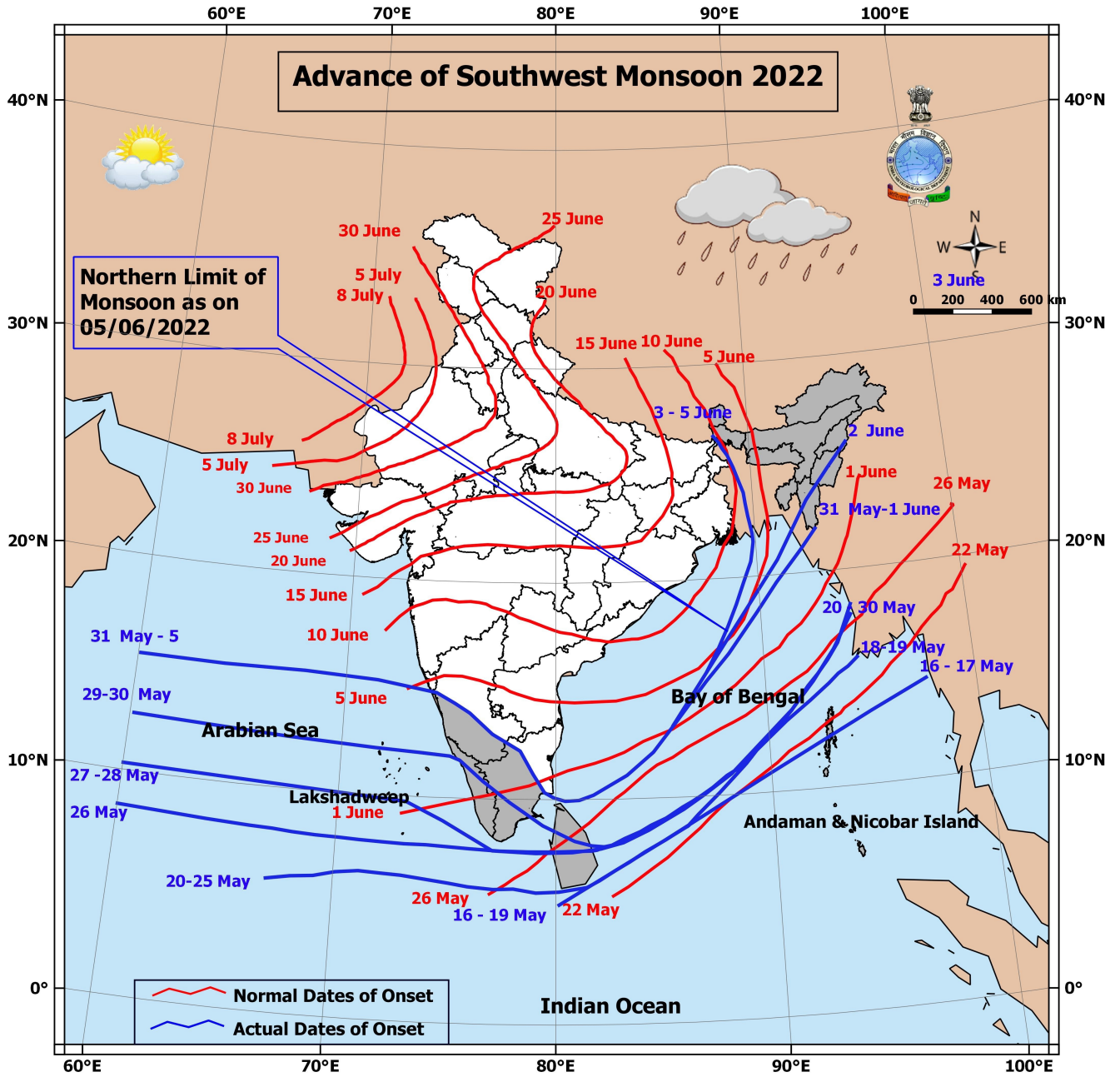
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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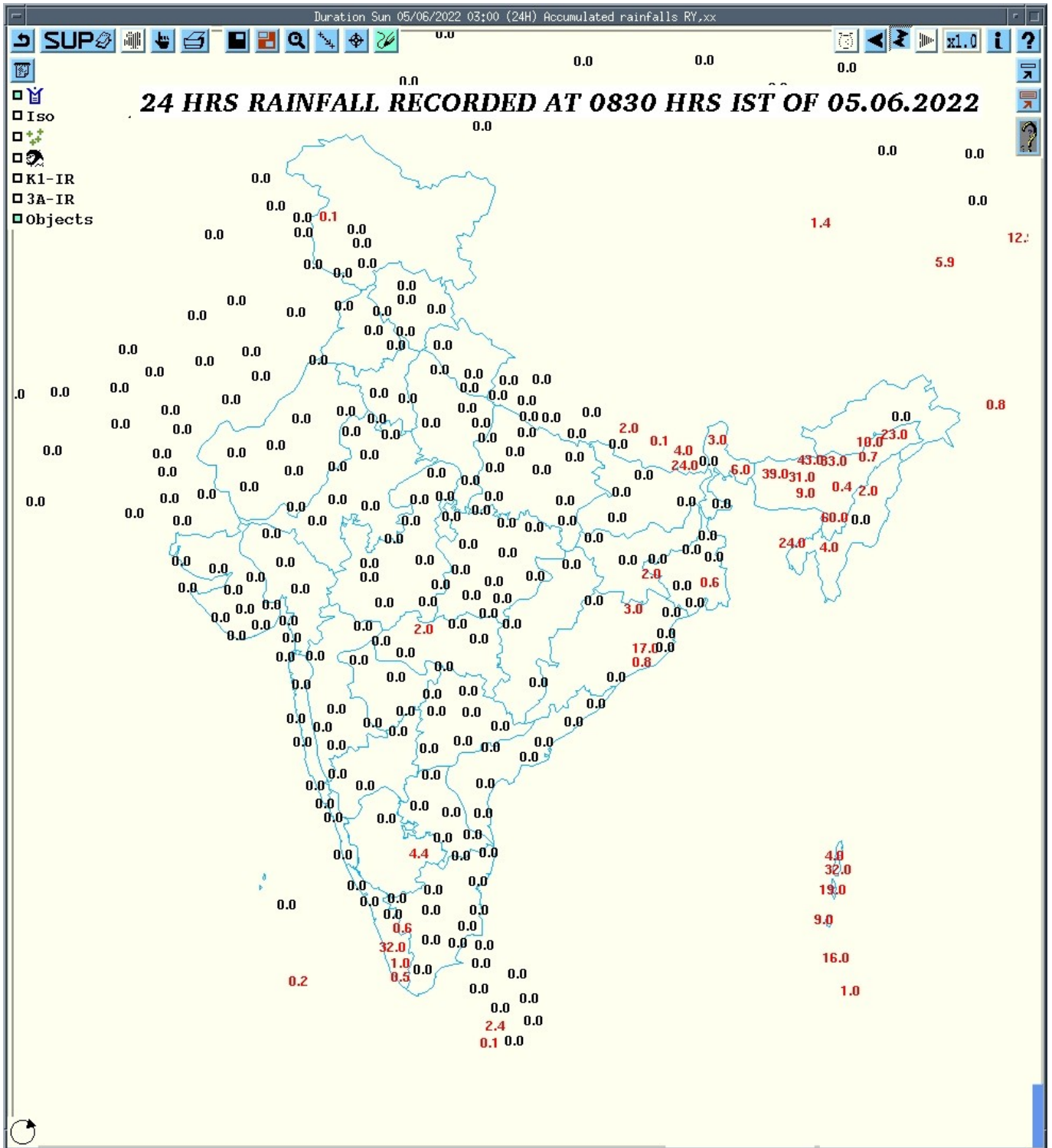
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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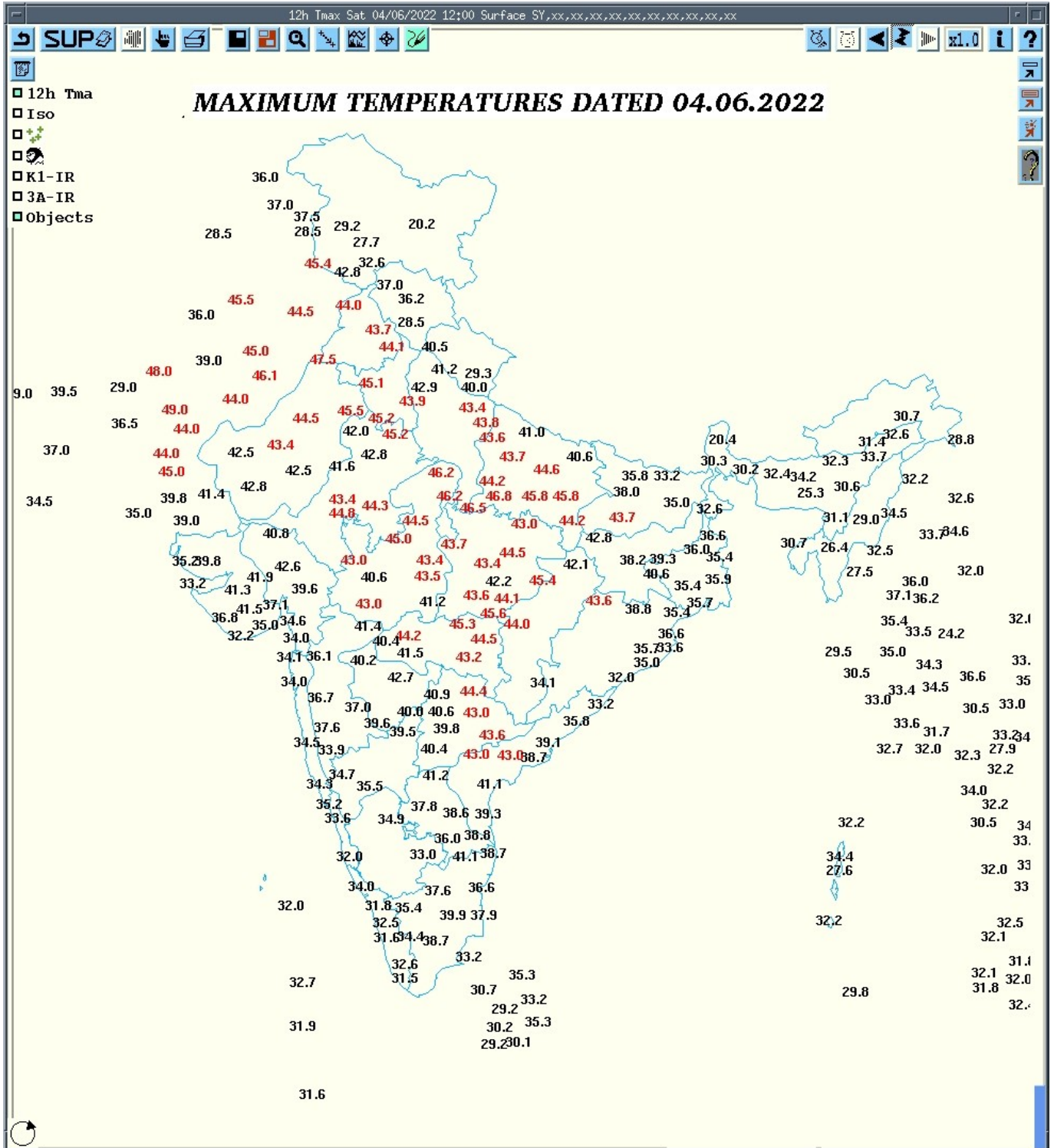
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Fig. 2: Maximum Temperature during past 24 hours



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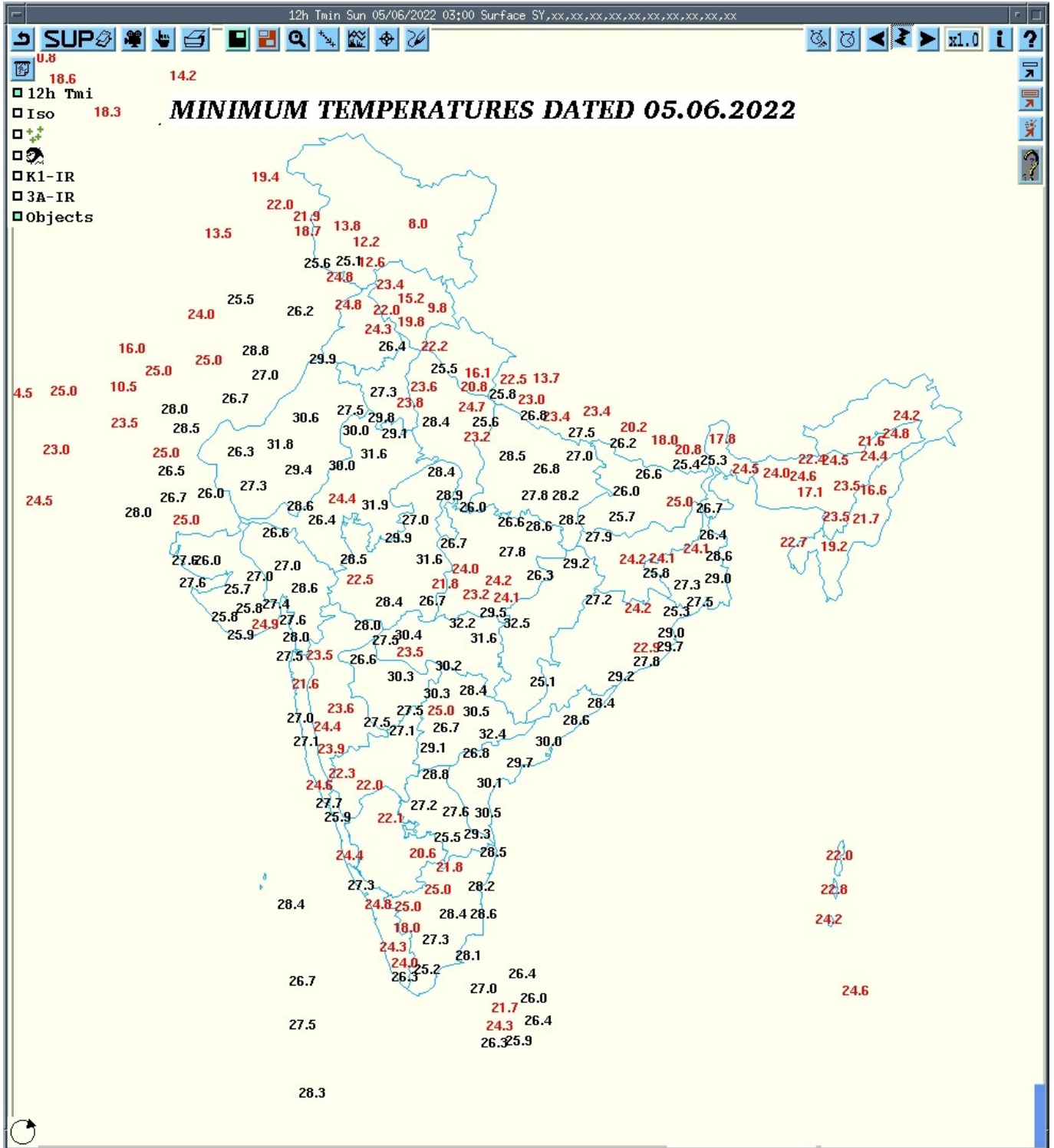
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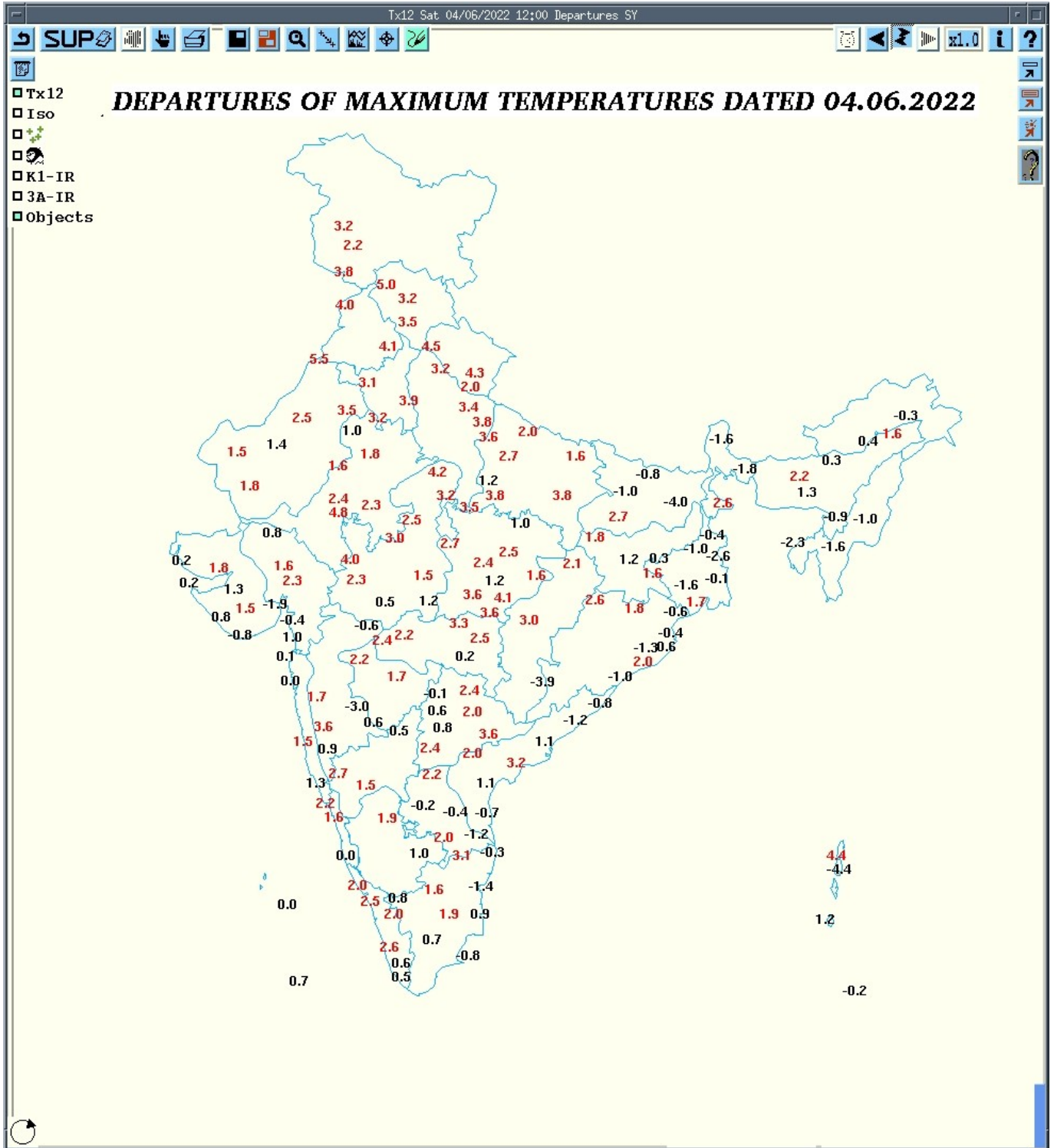
Fig. 3: Minimum Temperature during past 24 hours



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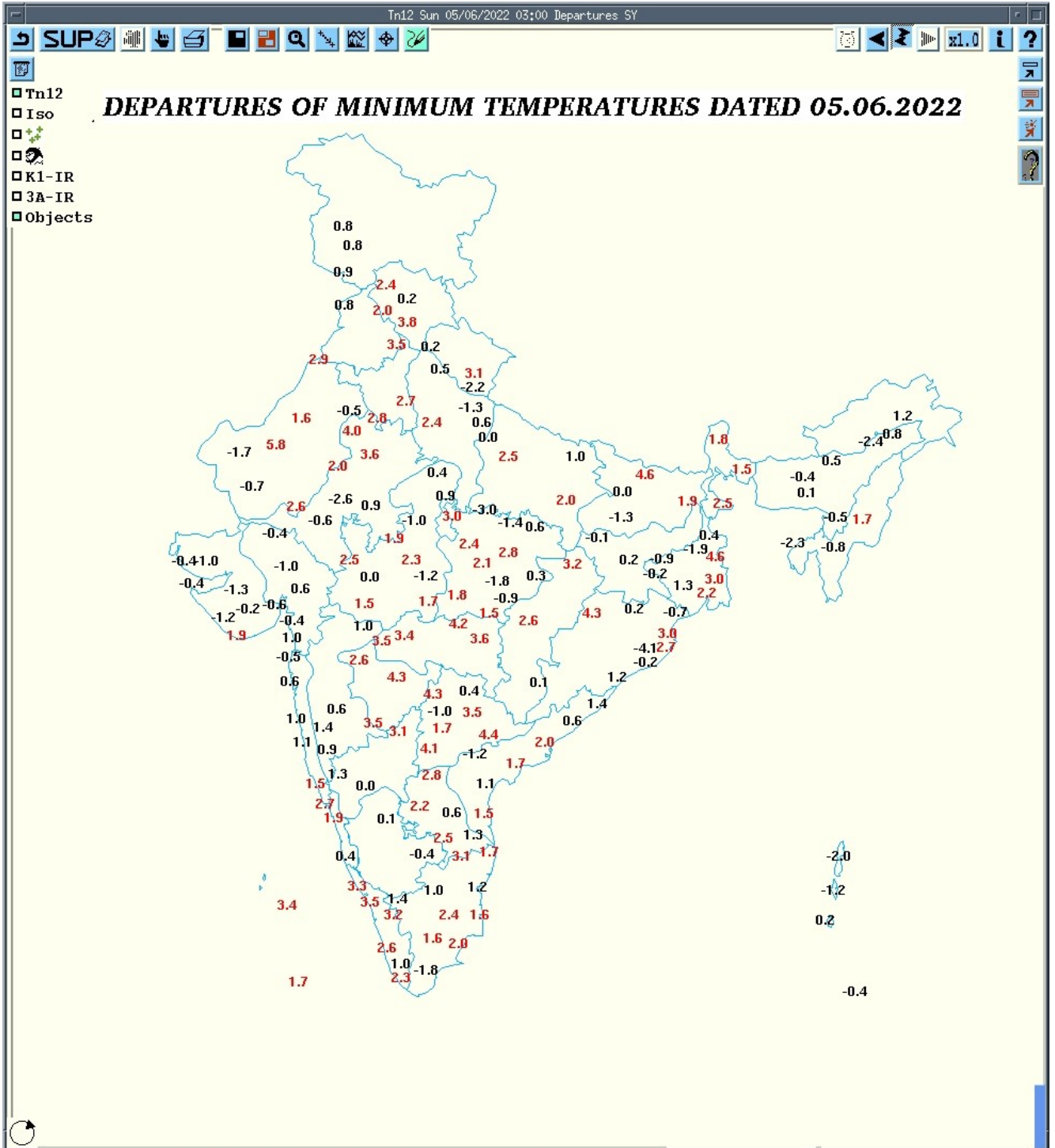
Fig. 4 : Departure from Normal of Maximum Temperatures



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Fig. 5 : Departure from Normal of Minimum Temperatures



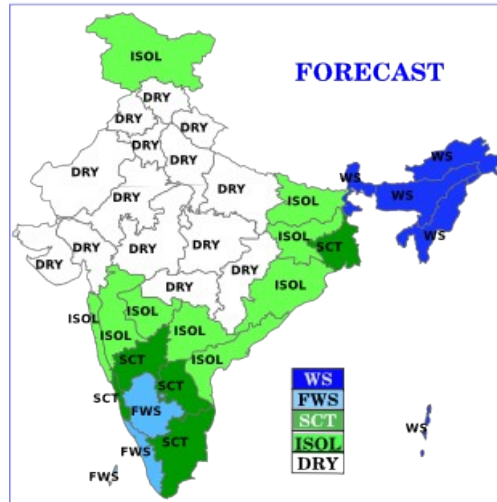
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## Sunday 05 June 2022



**05 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, Andaman & Nicobar Islands, Arunachal Pradesh, 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; **gusty winds (speed 30-40 kmph)** at isolated places over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Bihar, Odisha, Madhya Maharashtra, Marathawada, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

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

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

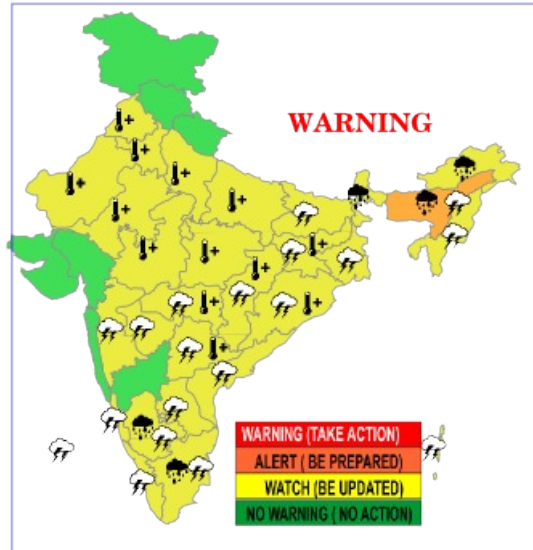
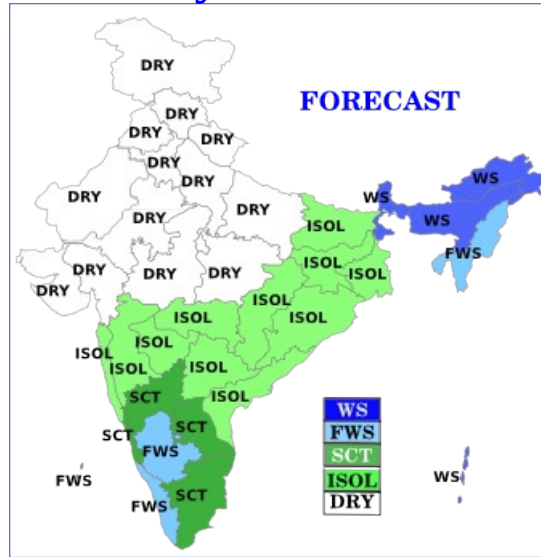
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## Monday 06 June 2022



**06 June (Day 2):** ♦ **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, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

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

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

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

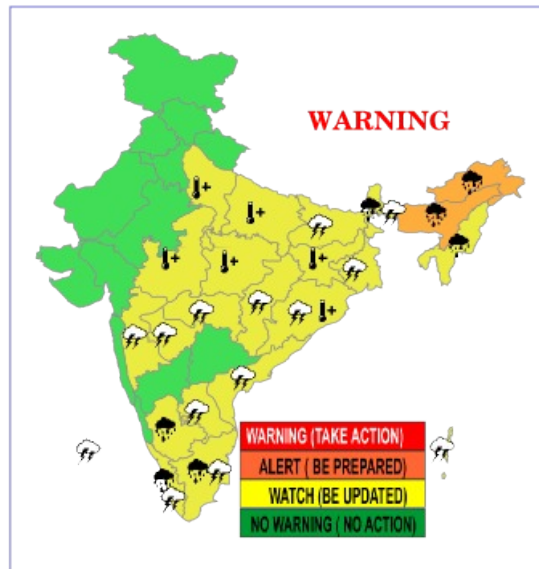
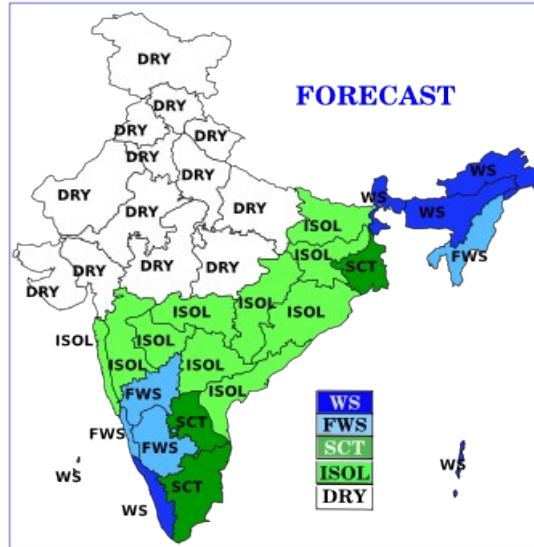
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## Tuesday 07 June 2022



**07 June (Day 3): ♦ Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh and **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Andaman & Nicobar Islands, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and **with lightning** at isolated places over Vidarbha, Chhattisgarh, Bihar, Odisha, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

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

♦ **Squally weather (wind speed 40-50 kmph gusting to 60 kmph)** very likely over south west Arabian Sea. Fishermen are advised not to venture into these areas.

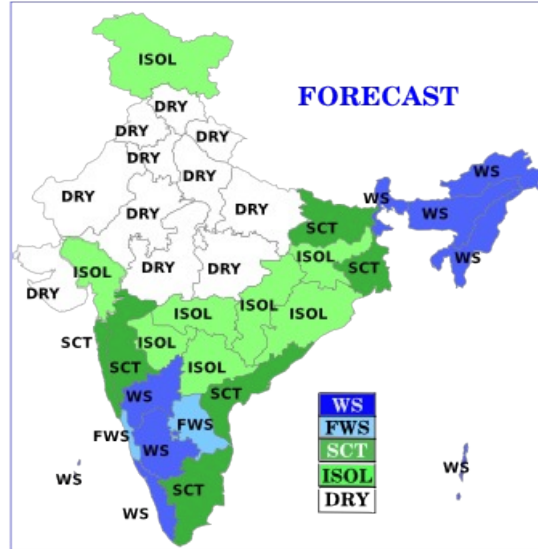
\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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(Circle as the National flag 1971)

## Wednesday 08 June 2022



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

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

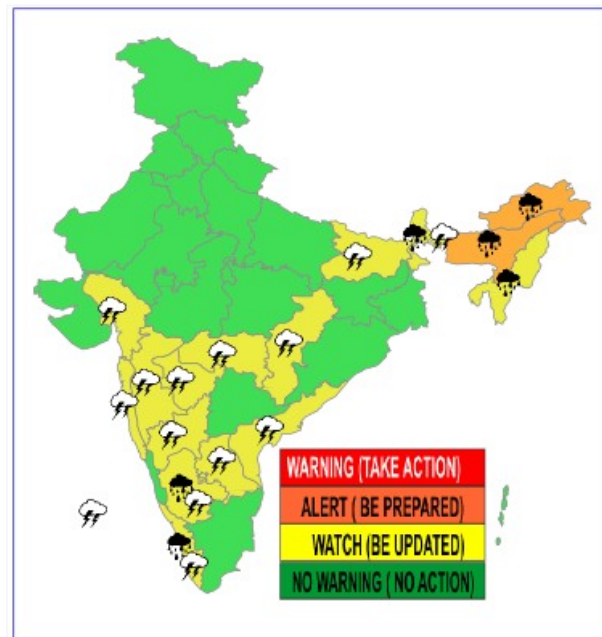
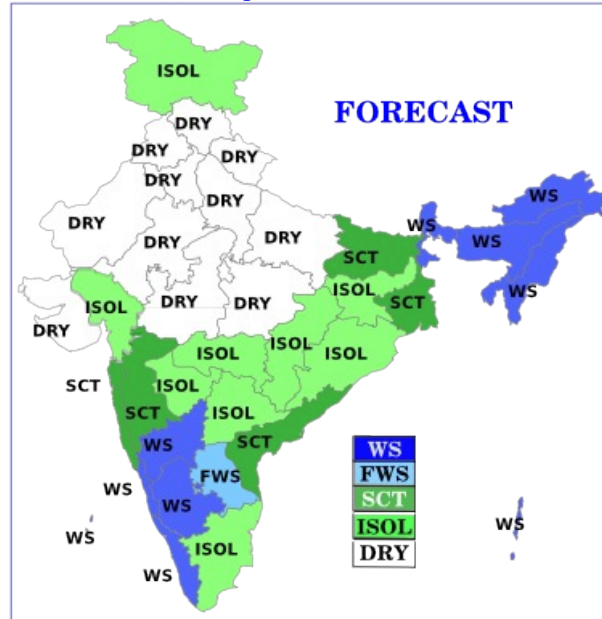
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## Thursday 09 June 2022



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

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

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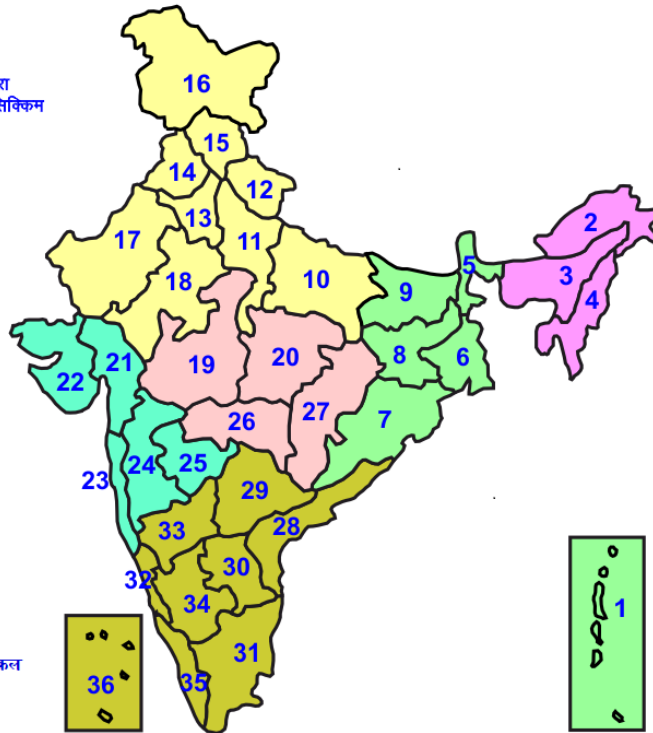
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## LEGENDS

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



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

## SPATIAL DISTRIBUTION (% of Stations reporting)

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

## WARNING

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

## Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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## LEGENDS

### WARNING

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

### Probabilistic Forecast

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



Rain/ Snow \*

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



Heat Wave

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

(a) Based on Departure from normal

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

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

(b). Based on Actual maximum temperature

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

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

(c) Criteria for heat wave for coastal stations

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



Warm Night

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

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

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



Cold Wave

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

(a). Based on departure

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

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

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

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

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

(c) For Coastal Stations

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



Cold Day

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

Based on departure

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

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



Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

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



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph



Sea State

Effect of various waves in the sea over specific area

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

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

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



Cyclone

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

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

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

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

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

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