



Wednesday 06 July 2022

MORNING

Time of Issue: 0820 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The Low Pressure Area lies over central Gujarat region & neighbourhood and the associated cyclonic circulation extends upto mid tropospheric levels tilting southwestwards with height.
- ◆ The monsoon trough is active and south of its normal position.
- ◆ An off-shore trough at mean sea level runs from Gujarat coast to Maharashtra coast.
- ◆ A cyclonic circulation lies over Northwest Bay of Bengal & neighbourhood extending upto mid tropospheric levels tilting southwestwards with height.

Under their influence;

- i) Fairly widespread/widespread rainfall with **thunderstorm/lightning** very likely over Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Coastal Karnataka, Kerala & Mahe, Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha during next 5 days.
- ii) Isolated **heavy rainfall** very likely over Telangana on 05th, 08th & 09th; Marathwada during 06th-08th; Coastal Karnataka during 07th-10th; South Interior Karnataka & Kerala & Mahe during 06th-09th; Odisha during 06th-08th and over East Madhya Pradesh during 06th-10th July, 2022.
- iii) Isolated **heavy to very heavy rainfall** likely over Gujarat region on 06th, 07th, 09th & 10th; Saurashtra & Kutch during 06th-08th & 10th; Konkan & Goa & Madhya Maharashtra on 09th; West Madhya Pradesh on 05th & 08th; Vidarbha on 08th & 09th; Chhattisgarh on 07th & 08th and over Odisha on 09th July, 2022.
- iv) Scattered **heavy to very heavy rainfall** with isolated extremely heavy rainfall also likely over Konkan & Goa during 06th-08th and isolated **extremely heavy rainfall** likely over south Gujarat Region on 08th and over ghat areas of Madhya Maharashtra during 06th-08th over Saurashtra & Kutch on 09th & 10th July, 2022.
- v) Isolated **heavy rainfall** likely over Coastal Andhra Pradesh & Yanam during 06th-08th and over Tamil Nadu, Puducherry & Karaikal on 06th & 07th July, 2022.
- vi) Isolated **heavy to very heavy rainfall** also likely over Himachal Pradesh on 06th and over Uttarakhand on 06th July, 2022.
- vii) Isolated/scattered rainfall activity very likely over Uttar Pradesh during next 5 days and over Punjab, Haryana, Chandigarh-Delhi and Rajasthan during next 48 hours and fairly widespread to widespread rainfall activity with isolated thunderstorm/lightning likely over the region during 07th-09th July, 2022.
- viii) Isolated **heavy rainfall** likely over Punjab, Haryana, Chandigarh - Delhi during 07th-10th; West Uttar Pradesh on 09th; East Rajasthan on 06th and over West Rajasthan on 07th July, 2022. Isolated **heavy to very heavy rainfall** also likely over West Rajasthan on 08th & 09th and over East Rajasthan during 07th-09th July, 2022.

Main Weather Observations

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◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Konkan & Goa, Kerala & Mahe and Coastal Karnataka; at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Saurashtra & Kutch, Madhya Maharashtra, West Madhya Pradesh, Andaman & Nicobar Islands, Rayalaseema and Interior Karnataka; at a few places over Gujarat Region, Gangetic West Bengal, Odisha, Telangana and Coastal Andhra Pradesh & Yanam and at isolated places over Uttarakhand, Punjab, Chandigarh, East Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Marathwada, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (2 cm or more):** Mumbai (Santacruz)-13; Dwarka-10; Indore and Mahabaleshwar-9 each; Karwar-7; Rajkot, Khandwa, Pachmarhi and Matheran-6 each; Porbandar, Ujjain and Shirali-5 each; Ratlam, Dhar, Ratnagiri, Honavar, Bajpe and Alibag-4 each; Okha, Harnai, Panjim, Kozhikode, Mumbai (Colaba), Mangalore and Valprai-3 each; Mahuva, Puri, Chandbali, Bolangir, Kurnool, Tiruttani, Kochin, Agathi, Karipur, Palakkad and Thrissur-2 each.

◆ **Yesterday, Heavy to very heavy rainfall** at isolated places occurred over Konkan & Goa and **heavy rainfall** at isolated places over Saurashtra & Kutch, West Madhya Pradesh, Madhya Maharashtra and Coastal Karnataka.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Uttar Pradesh, Haryana, Chandigarh & Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Gujarat State, Madhya Pradesh, Punjab, West Rajasthan and Sub-Himalayan West Bengal & Sikkim.

◆ **Minimum Temperature Departures (as on 05-07-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a isolated places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim; **above normal (1.6°C to 3.0°C)** at most places over Punjab and Uttarakhand; at many places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Rajasthan, Arunachal Pradesh and Assam & Meghalaya; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Uttar Pradesh, East Rajasthan, Bihar, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at many places over Coastal Karnataka and Lakshadweep; at isolated places over Madhya Pradesh, Saurashtra & Kutch and Andaman & Nicobar Islands and near normal over rest parts of the country. **Yesterday**, the lowest minimum temperature of **18.6°C** was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 05-07-2022):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Assam & Meghalaya and Arunachal Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at most places over Bihar; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Gangetic West Bengal and East Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Himachal Pradesh; at many places over Uttarakhand, Punjab, West Uttar Pradesh, East Madhya Pradesh and Jharkhand. They were **markedly below normal (-5.1°C or less)** at a few places over West Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Kerala & Mahe; at a few places over Vidarbha, Karnataka and Tamilnadu, Puducherry & Karaikal; at isolated places over Odisha, Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Saurashtra & Kutch, Rayalaseema and Andaman & Nicobar Islands and near normal over rest parts of the country. **Yesterday**, the highest **maximum temperature** of **41.4°C** was reported at **Ganganagar (West Rajasthan)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Low Pressure Area** over central parts of West Madhya Pradesh & adjoining East Rajasthan now lies over central parts of Gujarat region & neighbourhood and the associated cyclonic circulation extends upto 5.8 km above mean sea level tilting southwestwards with height.
- ◆ The monsoon trough now passes through center of **Low Pressure Area** over central parts of Gujarat region & neighbourhood, Indore, Pendra Road, Gopalpur and thence southeastwards to Eastcentral Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The off-shore trough at mean sea level from Gujarat coast to Maharashtra coast persists.
- ◆ The cyclonic circulation over Northwest Bay of Bengal & neighbourhood extending upto 4.5 km above mean sea level tilting southwestwards with height persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 11th July, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ 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 11th July-13th July, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall likely to continue over many parts of West coast, Central, northwest, east India and Islands.
- ◆ Scattered to fairly widespread rainfall likely over many parts of peninsular India, Northeast India, Sub-Himalayan West Bengal & Sikkim.
- ◆ Isolated to Scattered rainfall over rest parts of the country.

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Weather Warning during next 5 days *

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06 July (Day 1): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall with extremely heavy falls at isolated places over Madhya Maharashtra; heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Gujarat Region, Telangana and Coastal Karnataka and heavy rainfall at isolated places over East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm & lightning accompanied with gusty winds speed reaching 30-40 kmph** at isolated places very likely over Andaman & Nicobar Islands and **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, north Haryana, Chandigarh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, central parts of central Bay of Bengal, off coastal Andhra Pradesh and off coastal Odisha. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea off Karnataka, Maharashtra coasts, Comorin area, Gulf of Mannar, south west Bay of Bengal off Sri Lanka coast, south east Bay of Bengal and adjoining south Andaman Sea. Fishermen are advised not to venture into these seas.

07 July (Day 2): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall with extremely heavy falls at isolated places over Madhya Maharashtra; heavy to very heavy rainfall at isolated places over East Rajasthan, Chhattisgarh, Gujarat State and Telangana and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Odisha, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Uttar Pradesh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over Comorin area, Gulf of Mannar, east central Arabian Sea off Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

08 July (Day 3): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall with extremely heavy falls at isolated places over Madhya Maharashtra; heavy to very heavy rainfall at isolated places over West Rajasthan, East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh and Saurashtra & Kutch and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Odisha, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Uttar Pradesh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over Comorin area, Gulf of Mannar, east central Arabian Sea off Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

09 July (Day 4): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Saurashtra & Kutch; heavy to very heavy rainfall at isolated places over West Rajasthan, East Rajasthan, Vidarbha, Odisha, Gujarat Region, Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, East Madhya Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Nagaland, Manipur, Meghalaya & Tripura, Telangana, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Uttar Pradesh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over east central Arabian Sea off Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

10 July (Day 5): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Saurashtra & Kutch; heavy to very heavy rainfall at isolated places over Gujarat Region and Konkan & Goa and heavy rainfall at isolated places over Madhya Maharashtra, Coastal Karnataka, West Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh, Uttarakhand, Chhattisgarh, Jharkhand, Andaman & Nicobar Islands, east Assam, Nagaland, Manipur, Meghalaya & Tripura, West Uttar Pradesh and Odisha.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Odisha, Madhya Maharashtra, Marathwada, Telangana, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over east central Arabian Sea off Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

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Kindly download **MAUSAM APP** for location specific forecast & warning, **MEGHDOOT APP** for Agromet advisory and **DAMINI APP** for Lightning Warning & visit state MC/RMC websites for district wise warning.

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Table-1
5 Day Rainfall Forecast (MORNING)
06-July-2022

Met-Sub-Division	06-Jul Today	07Jul Thu	08Jul Fri	09Jul Sat	10Jul Sun
1. Andaman & Nicobar Islands	WS	FWS	WS	WS	WS
2. Arunachal Pradesh	SCT	SCT	SCT	SCT	SCT
3. Assam & Meghalaya	SCT	SCT	SCT	SCT	SCT
4. N. M. M. & T.	FWS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	FWS	SCT	SCT	SCT	SCT
6. Gangetic West Bengal	SCT	SCT	SCT	FWS	FWS
7. Odisha	FWS	FWS	FWS	SCT	SCT
8. Jharkhand	SCT	SCT	SCT	FWS	FWS
9. Bihar	ISOL	ISOL	SCT	ISOL	ISOL
10. East Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
11. West Uttar Pradesh	ISOL	ISOL	SCT	SCT	SCT
12. Uttarakhand	WS	WS	WS	FWS	FWS
13. Haryana, Chd & Delhi	SCT	FWS	WS	WS	WS
14. Punjab	SCT	FWS	WS	WS	WS
15. Himachal Pradesh	WS	WS	FWS	FWS	FWS
16. J & K and Ladakh	FWS	FWS	FWS	SCT	SCT
17. West Rajsthan	SCT	SCT	FWS	SCT	SCT
18. East Rajasthan	SCT	FWS	FWS	SCT	SCT
19. West Madhya Pradesh	WS	WS	WS	FWS	FWS
20. East Madhya Pradesh	FWS	FWS	WS	FWS	FWS
21. Gujarat Region	WS	WS	WS	WS	WS
22. Saurashtra & Kutch	WS	WS	WS	WS	WS
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	WS	WS	WS	FWS	FWS
25. Marathawada	WS	WS	WS	FWS	FWS
26. Vidharbha	WS	WS	WS	FWS	FWS
27. Chhattisgarh	WS	WS	WS	FWS	FWS
28. Coastal A. P. & Yanam	FWS	FWS	SCT	SCT	SCT
29. Telangana	WS	WS	FWS	SCT	SCT
30. Rayalaseema	SCT	SCT	ISOL	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	FWS	FWS	FWS	SCT	SCT
34. South Interior Karnataka	FWS	FWS	FWS	SCT	SCT
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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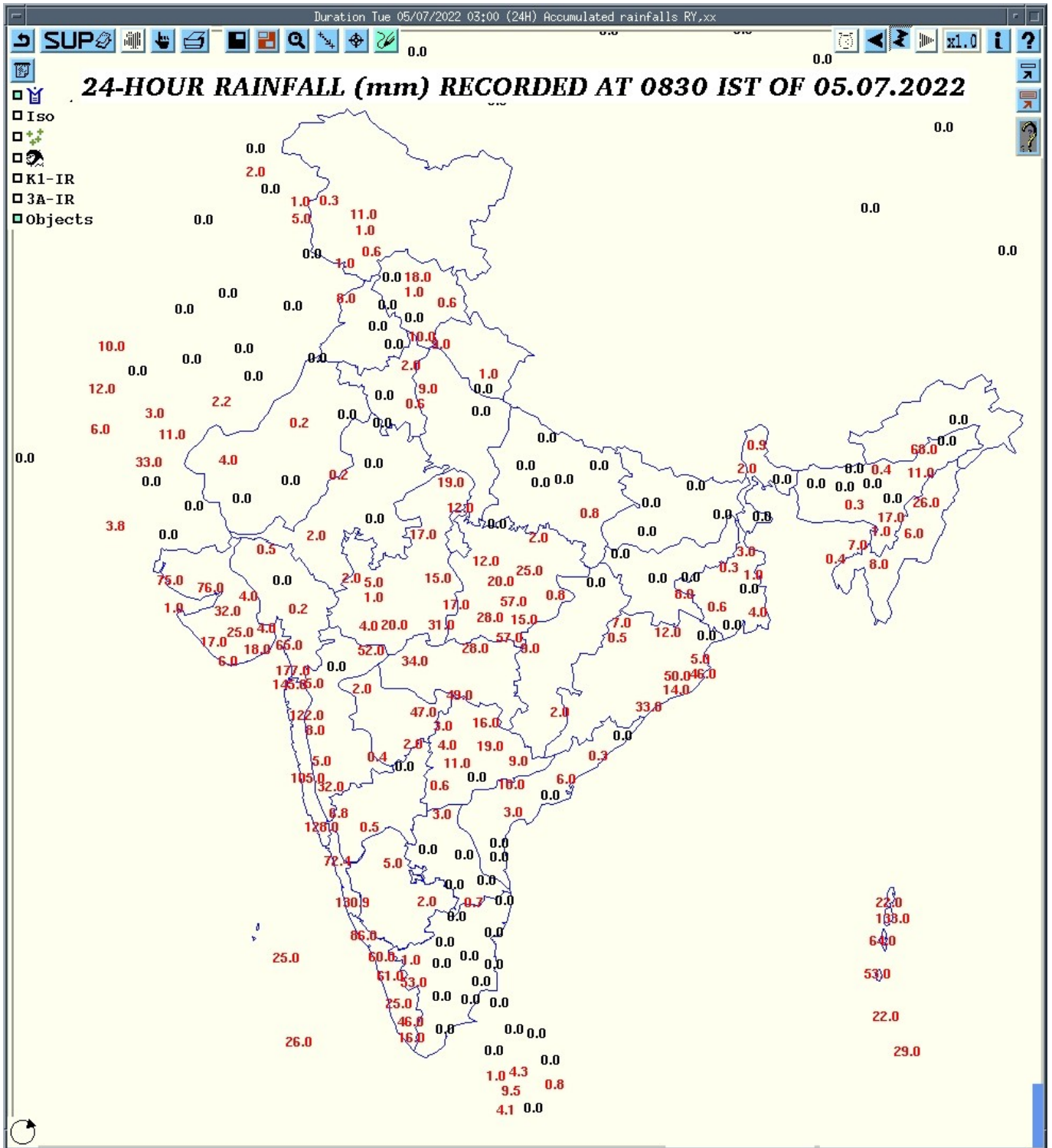
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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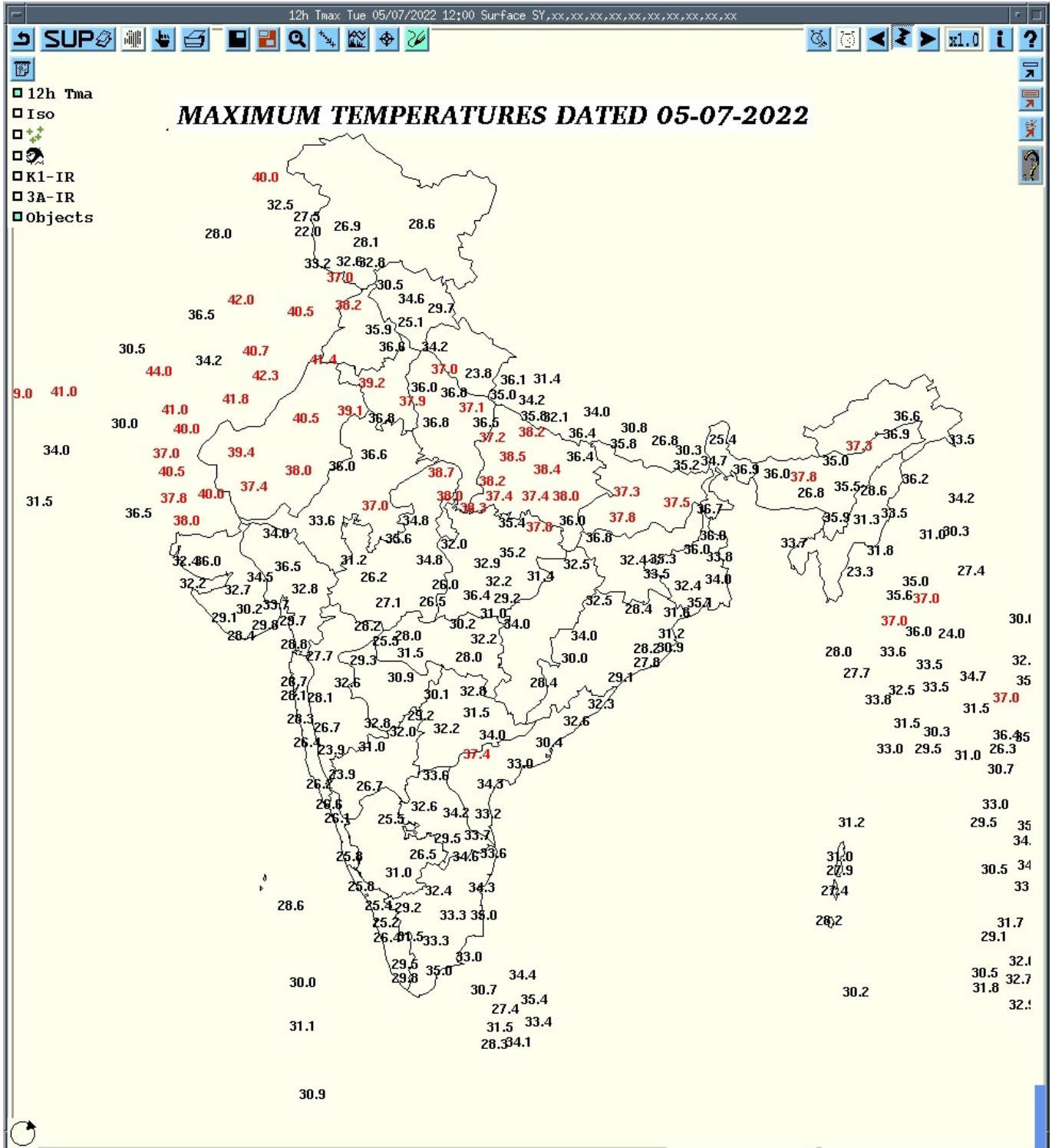
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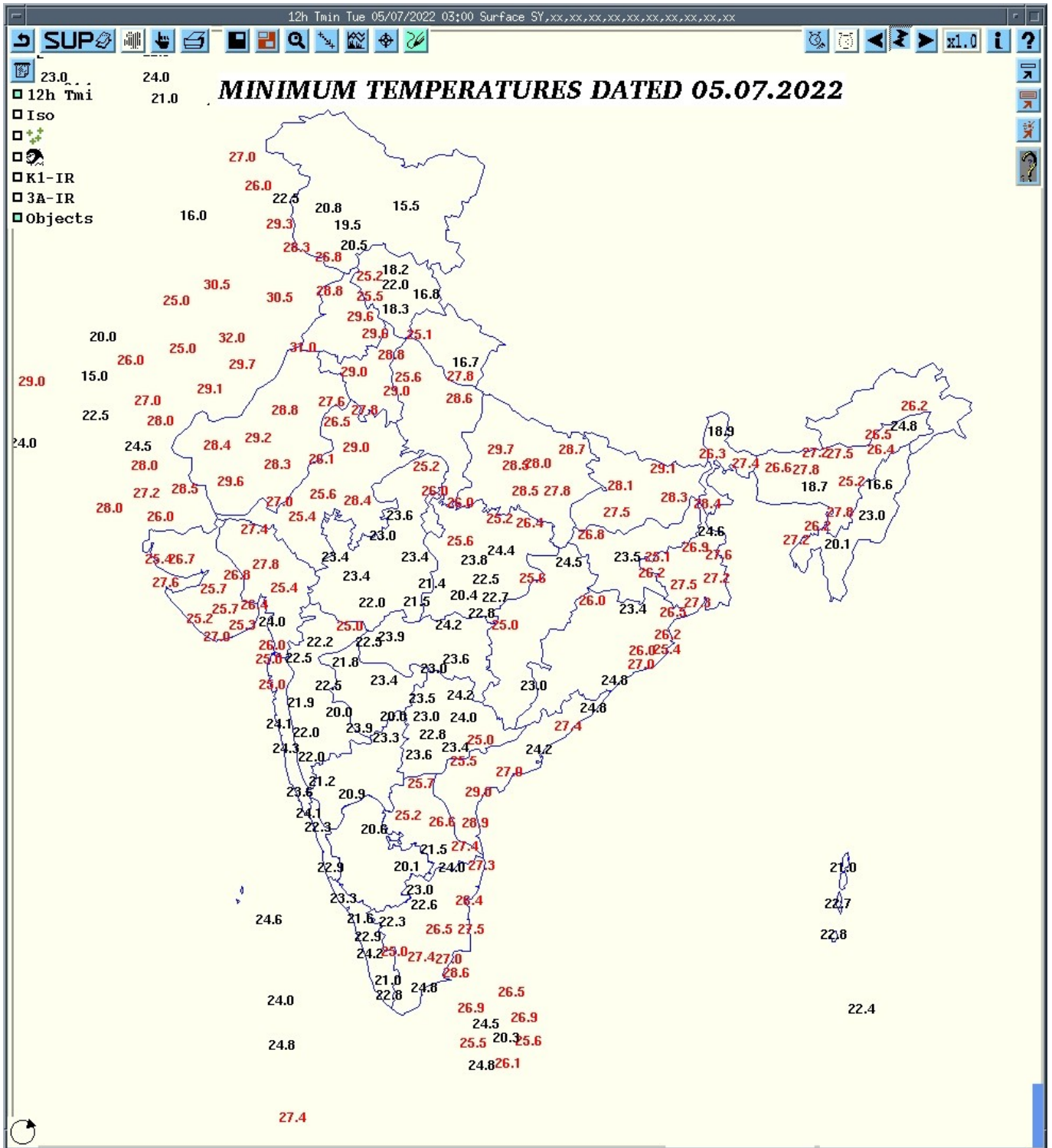
Fig. 2: Maximum Temperature during past 24 hours



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Fig. 3: Minimum Temperature during past 24 hours



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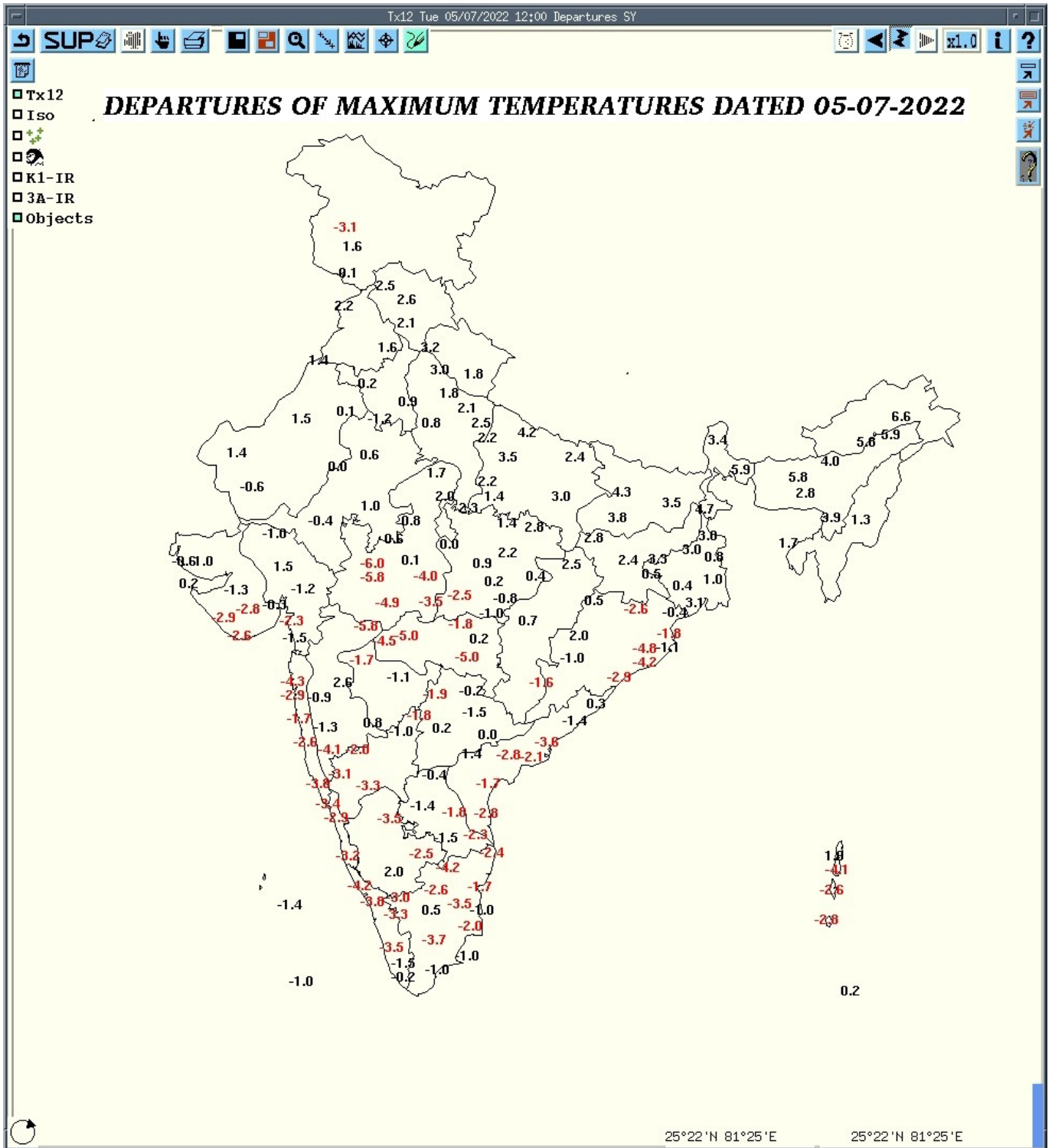
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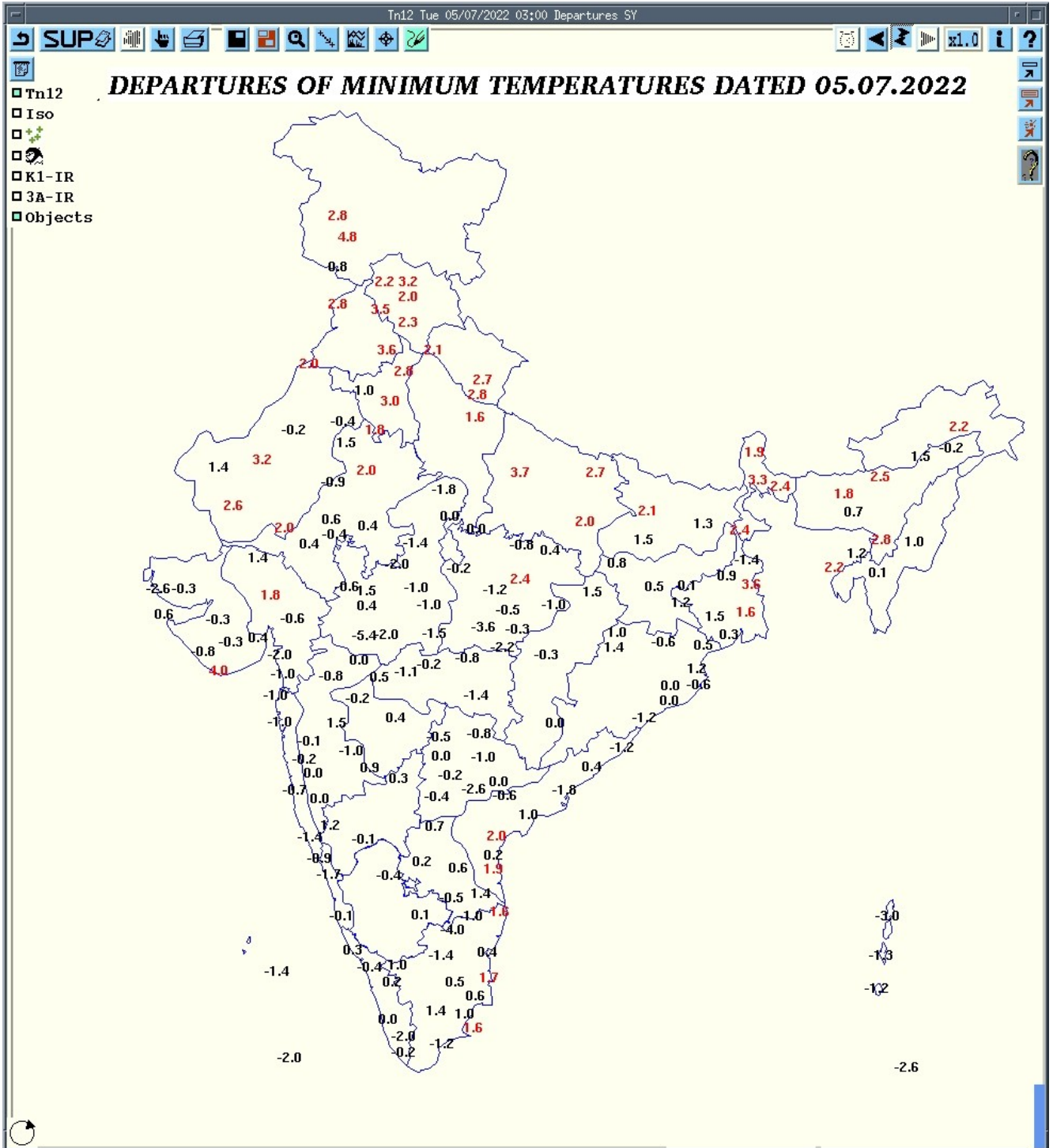
Fig. 4 : Departure from Normal of Maximum Temperatures



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Fig. 5 : Departure from Normal of Minimum Temperatures



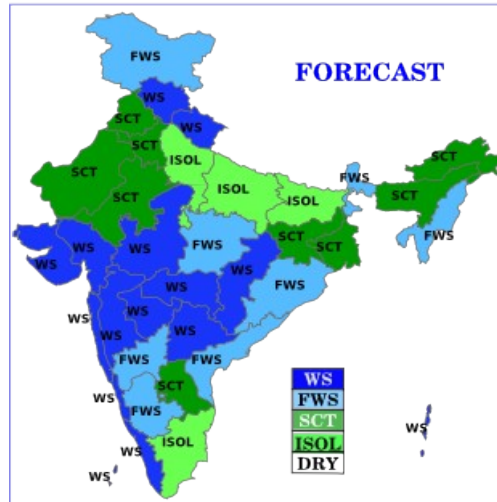
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♦ **Thunderstorm & lightning accompanied with gusty winds speed reaching 30-40 kmph** at isolated places very likely over Andaman & Nicobar Islands and **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, north Haryana, Chandigarh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, central parts of central Bay of Bengal, off coastal Andhra Pradesh and off coastal Odisha. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea off Karnataka, Maharashtra coasts, Comorin area, Gulf of Mannar, south west Bay of Bengal off Sri Lanka coast, south east Bay of Bengal and adjoining south Andaman Sea. Fishermen are advised not to venture into these seas.

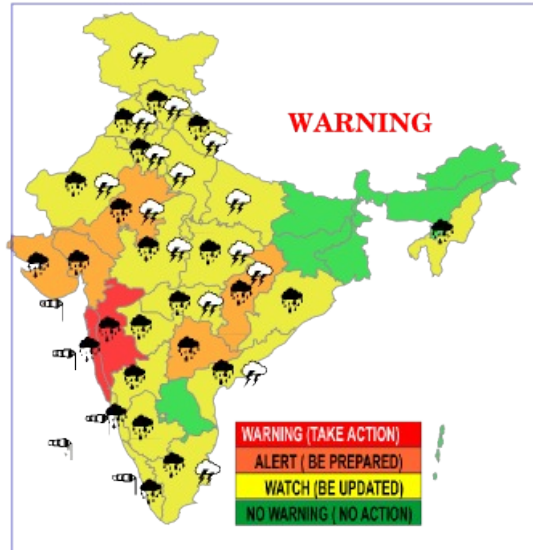
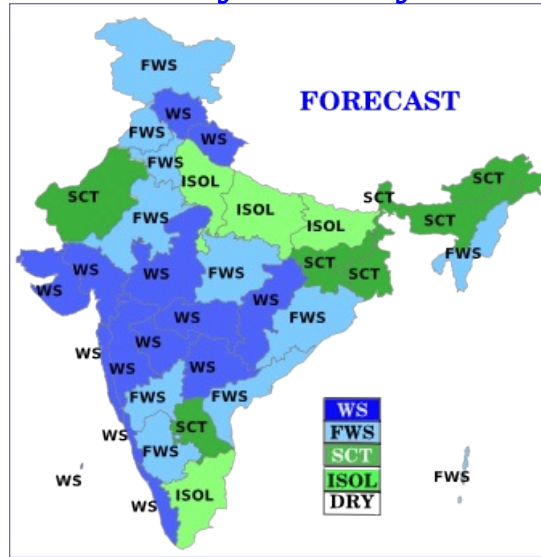
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(Copies to the Meteorologist (GPO))

Thursday 07 July 2022



07 July (Day 2): ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places** very likely over Konkan & Goa; **heavy to very heavy rainfall with extremely heavy falls at isolated places** over Madhya Maharashtra; **heavy to very heavy rainfall at isolated places** over East Rajasthan, Chhattisgarh, Gujarat State and Telangana and **heavy rainfall at isolated places** over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Odisha, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning very likely** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Uttar Pradesh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over Comorin area, Gulf of Mannar, east central Arabian Sea off Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

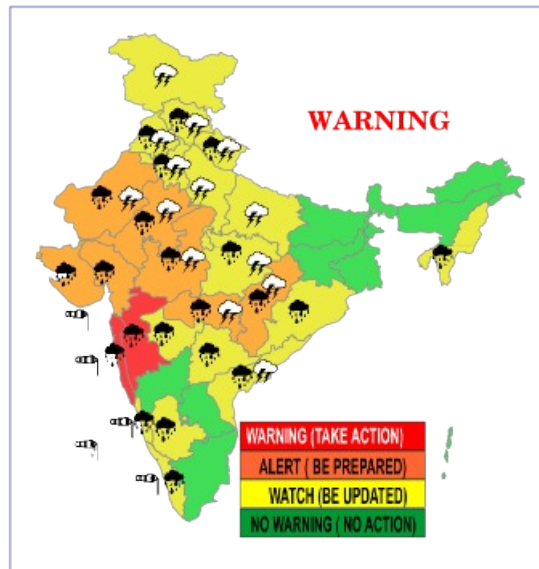
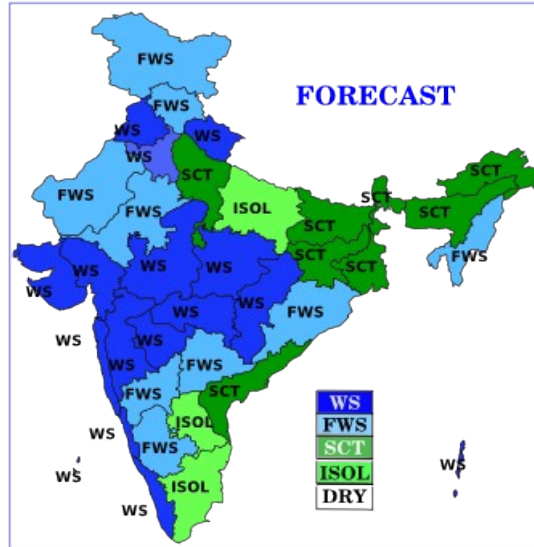
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(Created by the MeteoApp 1.07.22)

Friday 08 July 2022



08 July (Day 3): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall with extremely heavy falls at isolated places over Madhya Maharashtra; heavy to very heavy rainfall at isolated places over West Rajasthan, East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh and Saurashtra & Kutch and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Odisha, Nagaland, Manipur, Meghalaya & Tripura, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Uttar Pradesh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over Comorin area, Gulf of Mannar, east central Arabian Sea off Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

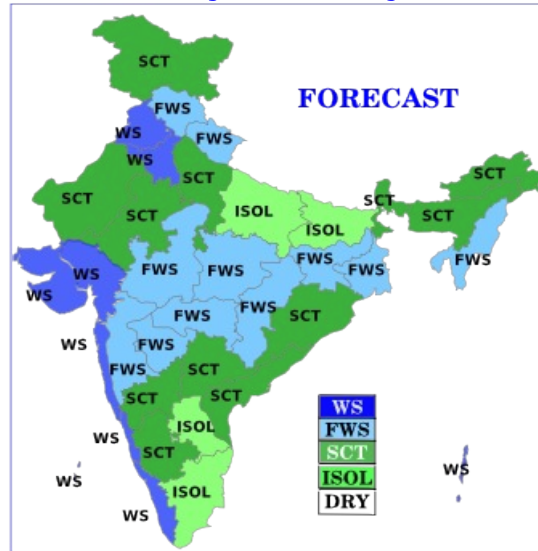
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(Continued on the Next page 1/2)

Saturday 09 July 2022



09 July (Day 4): ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places** very likely over Saurashtra & Kutch; **heavy to very heavy rainfall** at isolated places over West Rajasthan, East Rajasthan, Vidarbha, Odisha, Gujarat Region, Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, East Madhya Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Nagaland, Manipur, Meghalaya & Tripura, Telangana, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Uttar Pradesh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over east central Arabian Sea off Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

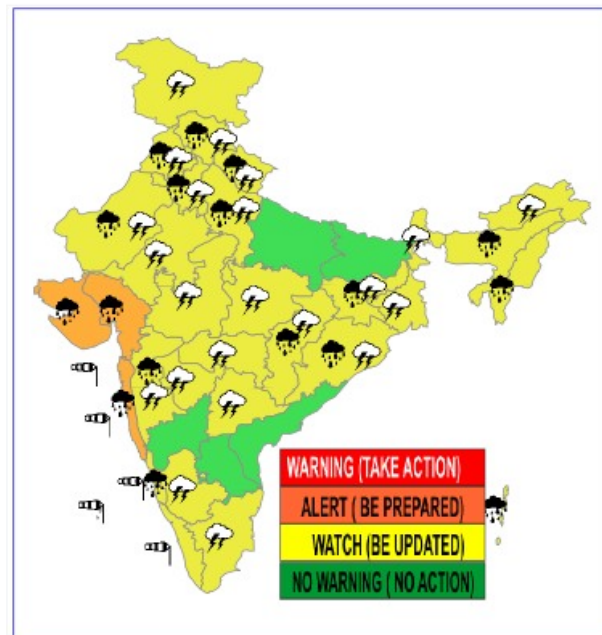
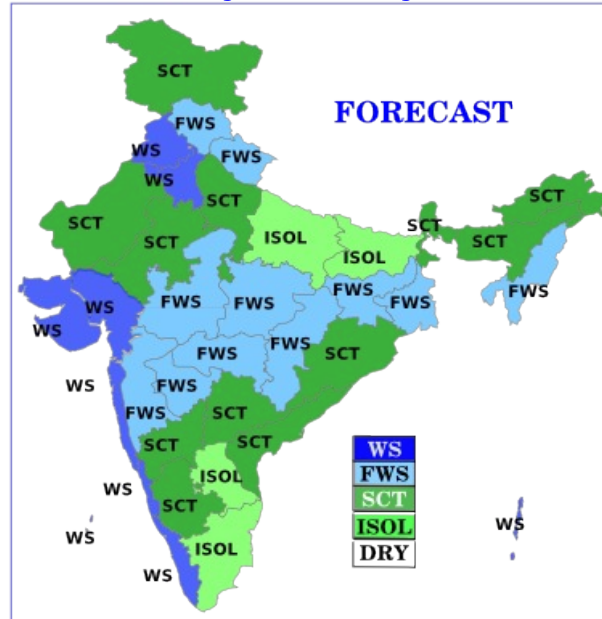
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(Copies to the Media upto 1070)

Sunday 10 July 2022



10 July (Day 5): ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Saurashtra & Kutch; heavy to very heavy rainfall** at isolated places over Gujarat Region and Konkan & Goa and **heavy rainfall** at isolated places over Madhya Maharashtra, Coastal Karnataka, West Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh, Uttarakhand, Chhattisgarh, Jharkhand, Andaman & Nicobar Islands, east Assam, Nagaland, Manipur, Meghalaya & Tripura, West Uttar Pradesh and Odisha.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Odisha, Madhya Maharashtra, Marathwada, Telangana, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over east central Arabian Sea off Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

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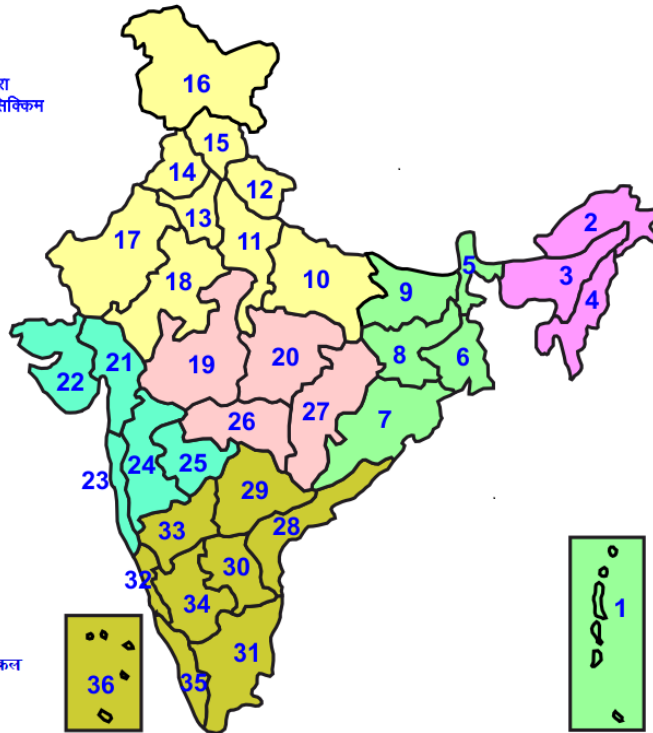
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(Circle as the National flag)

LEGENDS

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



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

SPATIAL DISTRIBUTION (% of Stations reporting)

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

WARNING

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

Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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(Copies to the Media upto 1070)

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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