



Friday 29 July 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

► **Synoptic Systems:**

◆ The western end of monsoon trough at mean sea level is near its normal position and eastern end is north of its normal position.

◆ A North-south trough runs from North Interior Karnataka to Comorin area across South Interior Karnataka and Interior Tamilnadu at lower tropospheric levels.

► **Forecast & Warnings;**

o Fairly widespread/widespread rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Jammu & Kashmir and West Uttar Pradesh on 29th; Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh during 29th-31st July; over East Uttar Pradesh during 29th July-02nd August, 2022.

◆ Isolated **very heavy rainfall** also very likely over Punjab, north Haryana-Chandigarh & Himachal Pradesh on 29th and Uttarakhand during 29th-31st July, 2022.

o Scattered to fairly widespread light/moderate rainfall with **thunderstorm & lightning** very likely to continue over Central, West, East and South India during next 3-4 days.

◆ Isolated **heavy falls** very likely over Jharkhand on 30th; Bihar during 29th July – 02nd August; Gangetic West Bengal on 31st; Rayalaseema during 30th July – 02nd August, Coastal Andhra Pradesh during 31st July – 02nd August, Coastal Karnataka on 29th July & 01st-2nd August; over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka during 29th July – 02nd August and over Kerala & Mahe on 29th, 31st July-02nd August 2022.

◆ Isolated **very heavy rainfall** also likely over Tamil Nadu, Puducherry & Karaikal on 31st July -02nd August 2022.

o Widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.

◆ Isolated **very heavy rainfall** also very likely over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh during 30th & 31st and over Assam & Meghalaya during 29th - 31st July, 2022.

Main Weather Observations

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

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- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at **most places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh; at **many places** over Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Uttar Pradesh and Lakshadweep; at **a few places** over Madhya Pradesh, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and North Interior Karnataka and at **isolated places** over East Rajasthan, West Bengal & Sikkim, Odisha, Chhattisgarh, Saurashtra & Kutch, Madhya Maharashtra, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ◆ **Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall occurred at isolated places over Jammu & Kashmir and Gangetic West Bengal.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday)(2 cm or more):** Jammu-11, Berhampur-7; Dharmasala and Keongjharharh-6 each; Varanasi-4; Ganganagar, Ambikapur and Shillong-3 each; Kokarnag, Qazi Gund, Sundernagar, Shimla, Churu, Delhi (Safdarjung) and Narnaul-2 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Tamilnadu, Puducherry & Karaikal, Gujarat Region, Himachal Pradesh, Uttar Pradesh, Haryana, Rajasthan, East Madhya Pradesh, Bihar, Jharkhand, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Mizoram, Manipur & Tripura, Telangana, Kerala & Mahe and Karnataka.
- ◆ **Minimum Temperature Departures (as on 28-07-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Chhattisgarh; at a few places over Odisha, Vidarbha and Telangana and at isolated places over Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh and East Madhya Pradesh. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at a few places over Assam & Meghalaya; at isolated places over Rajasthan and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of **18.0°C** was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 28-07-2022):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Madhya Maharashtra; **appreciably above normal (3.1°C to 5.0°C)** at many places over Jharkhand, Chhattisgarh and Kerala & Mahe; at a few places over Odisha and North Interior Karnataka; at isolated places over Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at most places over Bihar and Coastal & South Interior Karnataka; at many places over Vidarbha and Rayalaseema; at a few places over Assam & Meghalaya, East Madhya Pradesh, Telangana, Gujarat state and Coastal Andhra Pradesh & Yanam; at isolated places over West Madhya Pradesh. They were **markedly below normal (-5.1°C or less)** at isolated places over West Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at many places over Himachal Pradesh; at isolated places over Punjab; **below normal (-1.6°C to -3.0°C)** at many places over East Rajasthan and Haryana, Chandigarh & Delhi and near normal over rest parts of the country. Yesterday, the highest maximum temperature of **37.0°C** was reported at **K. Paramathy (Tamil Nadu)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **monsoon trough** at mean sea level now passes through Ganganagar, Hissar, Bareilly, Gorakhpur, Patna, Purnea and thence eastwards to Assam across North Bangladesh.
- ◆ The North-south trough from North Interior Karnataka to Comorin area across South Interior Karnataka and Interior Tamilnadu at 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over north Interior Tamilnadu & neighbourhood at 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over Southeast Bay of Bengal between 1.5 km & 3.1 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 03rd August 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Light to moderate thunderstorm activity likely to continue at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and north Rajasthan during next 3 days.
- ◆ No significant change in maximum temperatures very likely over the country during next 5 days.

Weather Outlook for subsequent 2 days During 03rd August - 05th August 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over Central, East and Northeast India.
- ◆ Scattered/fairly widespread light/moderate rainfall activity likely over Northwest & south Peninsular India.
- ◆ Isolated/scattered light/moderate rainfall activity likely over West India and Rajasthan.

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Weather Warning during next 5 days *

29 July (Day 1): ♦ Heavy to very heavy rainfall likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh and Assam & Meghalaya and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over North Rajasthan, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

30 July (Day 2): ♦ Heavy to very heavy rainfall likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh, East Uttar Pradesh, Bihar, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Telangana, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

31 July (Day 3): ♦ Heavy to very heavy rainfall likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh, East Uttar Pradesh, Bihar, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph likely over Comorin area. Fishermen are advised not to venture into these areas.

01 Aug (Day 4): ♦ Heavy to very heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph likely over Comorin area. Fishermen are advised not to venture into these areas.

02 Aug (Day 5): ♦ Heavy to very heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph likely over Comorin area. Fishermen are advised not to venture into these areas.

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)
29-July-2022

Met-Sub-Division	29-Jul Today	30Jul Sat	31Jul Sun	01Aug Mon	02Aug Tue
1. Andaman & Nicobar Islands	FWS	FWS	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	WS	WS	WS	WS
5. S.H. West Bengal & Sikkim	WS	WS	WS	WS	WS
6. Gangetic West Bengal	SCT	FWS	WS	WS	WS
7. Odisha	SCT	SCT	SCT	FWS	FWS
8. Jharkhand	FWS	FWS	WS	WS	WS
9. Bihar	SCT	FWS	FWS	WS	WS
10. East Uttar Pradesh	WS	FWS	FWS	WS	WS
11. West Uttar Pradesh	FWS	FWS	FWS	FWS	FWS
12. Uttarakhand	WS	WS	WS	FWS	FWS
13. Haryana, Chd & Delhi	WS	FWS	FWS	FWS	FWS
14. Punjab	WS	WS	FWS	FWS	FWS
15. Himachal Pradesh	WS	WS	FWS	FWS	FWS
16. J & K and Ladakh	FWS	FWS	SCT	SCT	SCT
17. West Rajsthan	ISOL	ISOL	ISOL	ISOL	ISOL
18. East Rajasthan	ISOL	ISOL	ISOL	ISOL	ISOL
19. West Madhya Pradesh	SCT	SCT	SCT	SCT	SCT
20. East Madhya Pradesh	FWS	SCT	SCT	SCT	SCT
21. Gujarat Region	ISOL	ISOL	ISOL	SCT	SCT
22. Saurashtra & Kutch	ISOL	ISOL	ISOL	SCT	SCT
23. Konkan & Goa	FWS	FWS	SCT	SCT	SCT
24. Madhya Maharashtra	SCT	SCT	ISOL	ISOL	ISOL
25. Marathawada	SCT	SCT	ISOL	ISOL	ISOL
26. Vidharbha	SCT	SCT	SCT	SCT	SCT
27. Chhattisgarh	FWS	SCT	SCT	SCT	SCT
28. Coastal A. P. & Yanam	SCT	FWS	FWS	FWS	FWS
29. Telangana	FWS	FWS	FWS	FWS	FWS
30. Rayalaseema	SCT	FWS	FWS	FWS	FWS
31. T.N.,Puducherry & Karaikal	SCT	SCT	FWS	FWS	FWS
32. Coastal Karnataka	WS	WS	WS	FWS	FWS
33. North Interior Karnataka	WS	FWS	FWS	FWS	FWS
34. South Interior Karnataka	WS	WS	WS	FWS	FWS
35. Kerala & Mahe	SCT	SCT	FWS	FWS	FWS
36. Lakshadweep	FWS	FWS	FWS	FWS	FWS

% Station Reporting Rainfall

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

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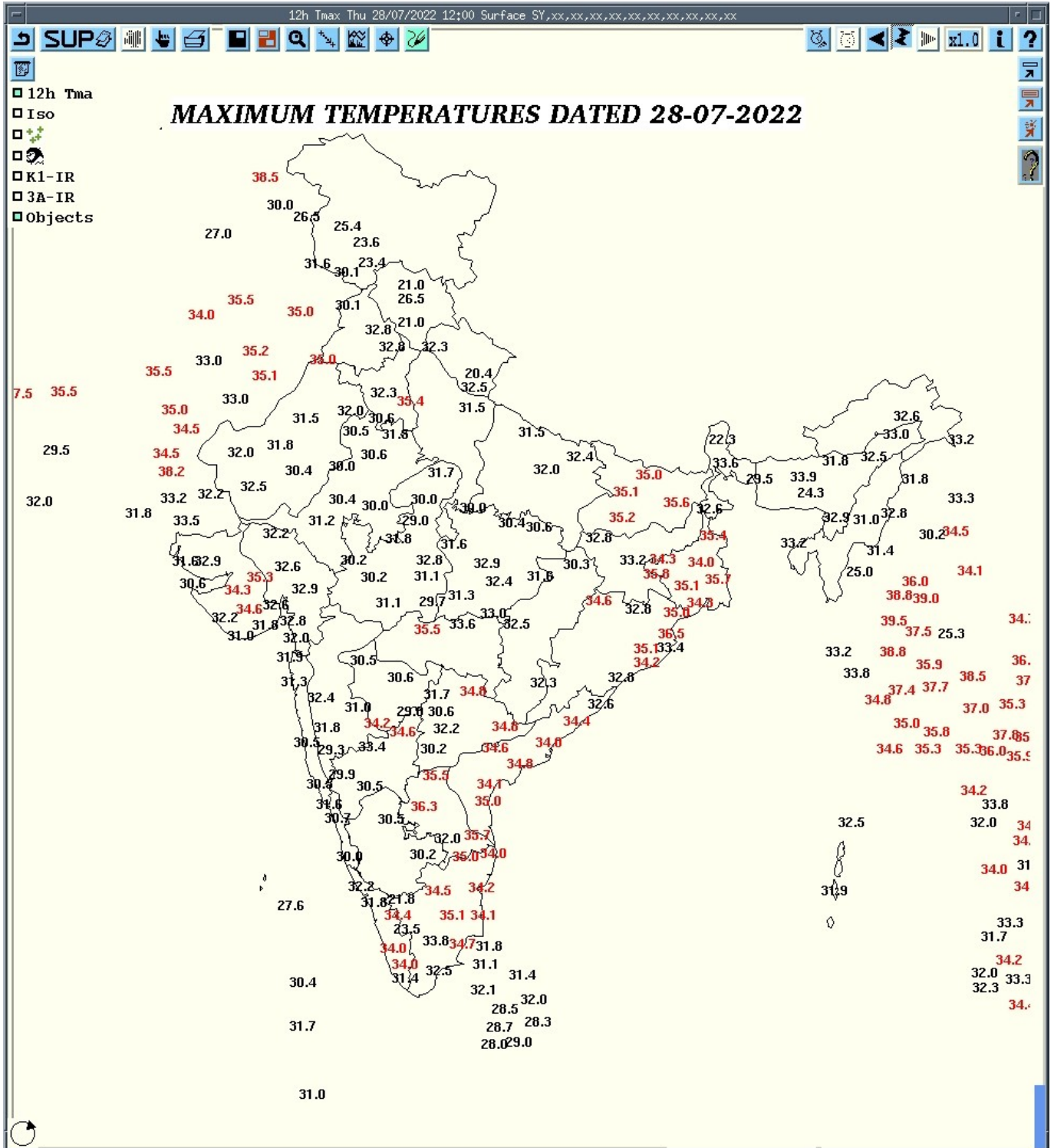
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Fig. 2: Maximum Temperature during past 24 hours



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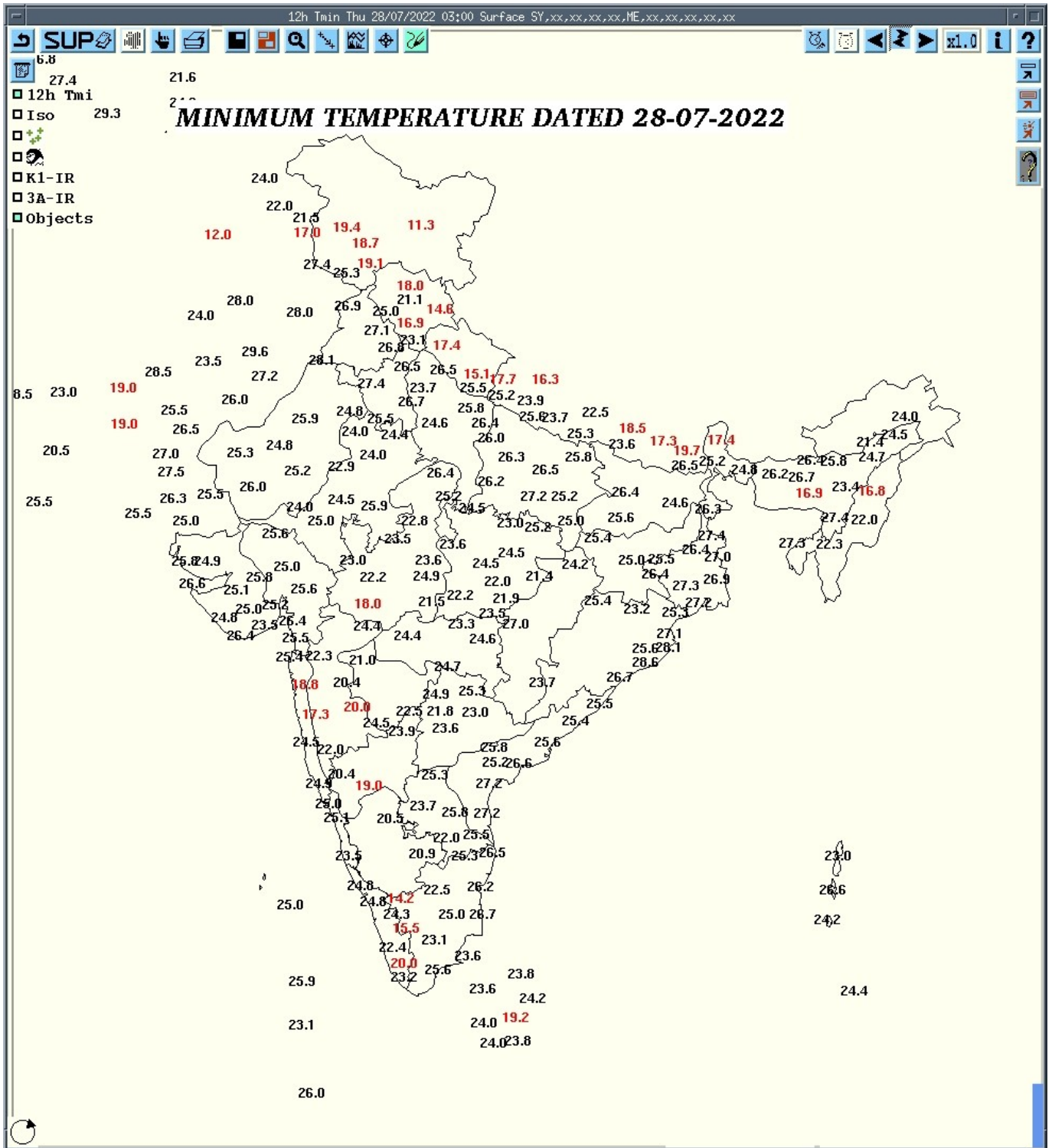
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Fig. 3: Minimum Temperature during past 24 hours



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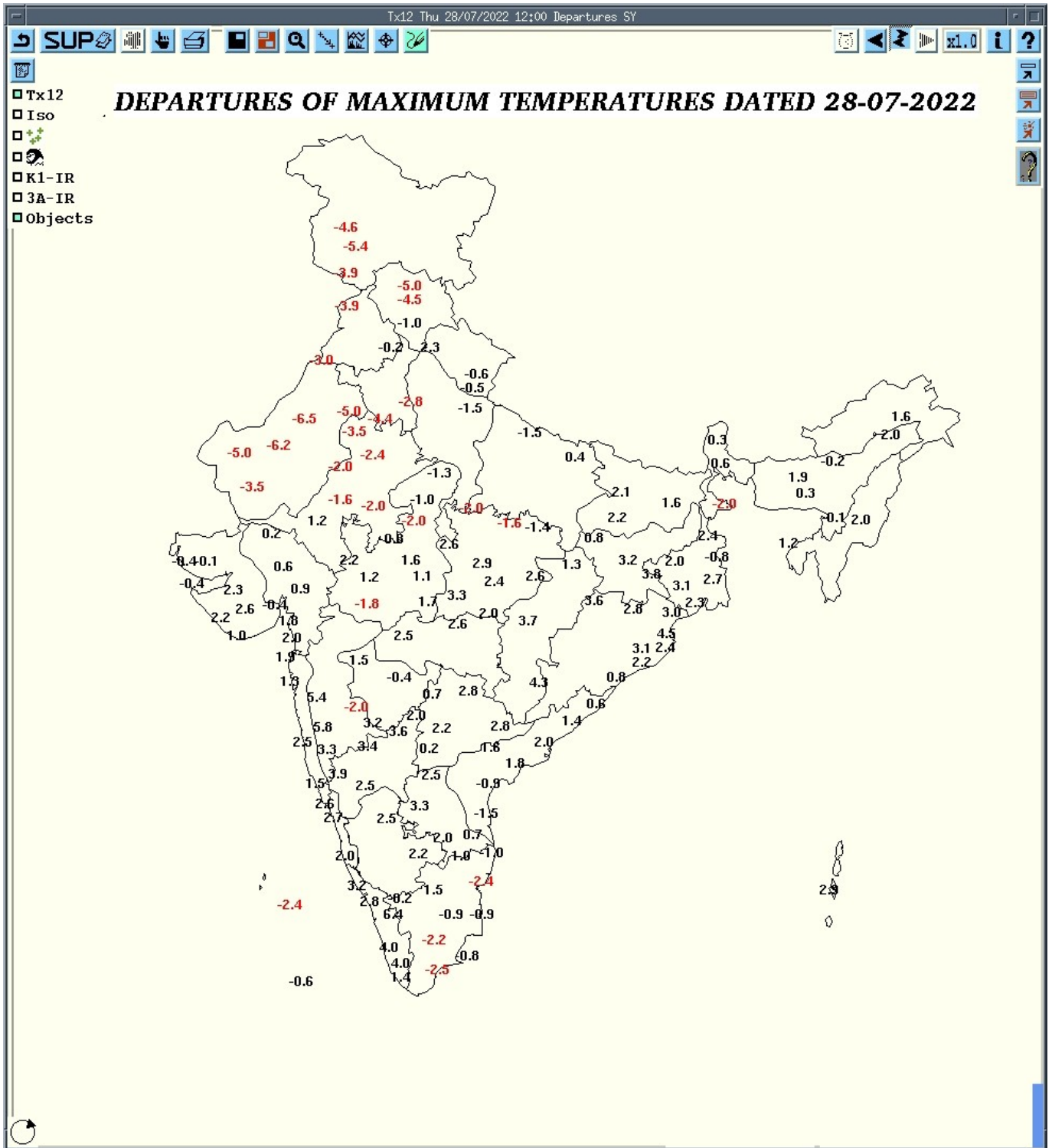
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Fig. 4 : Departure from Normal of Maximum Temperatures



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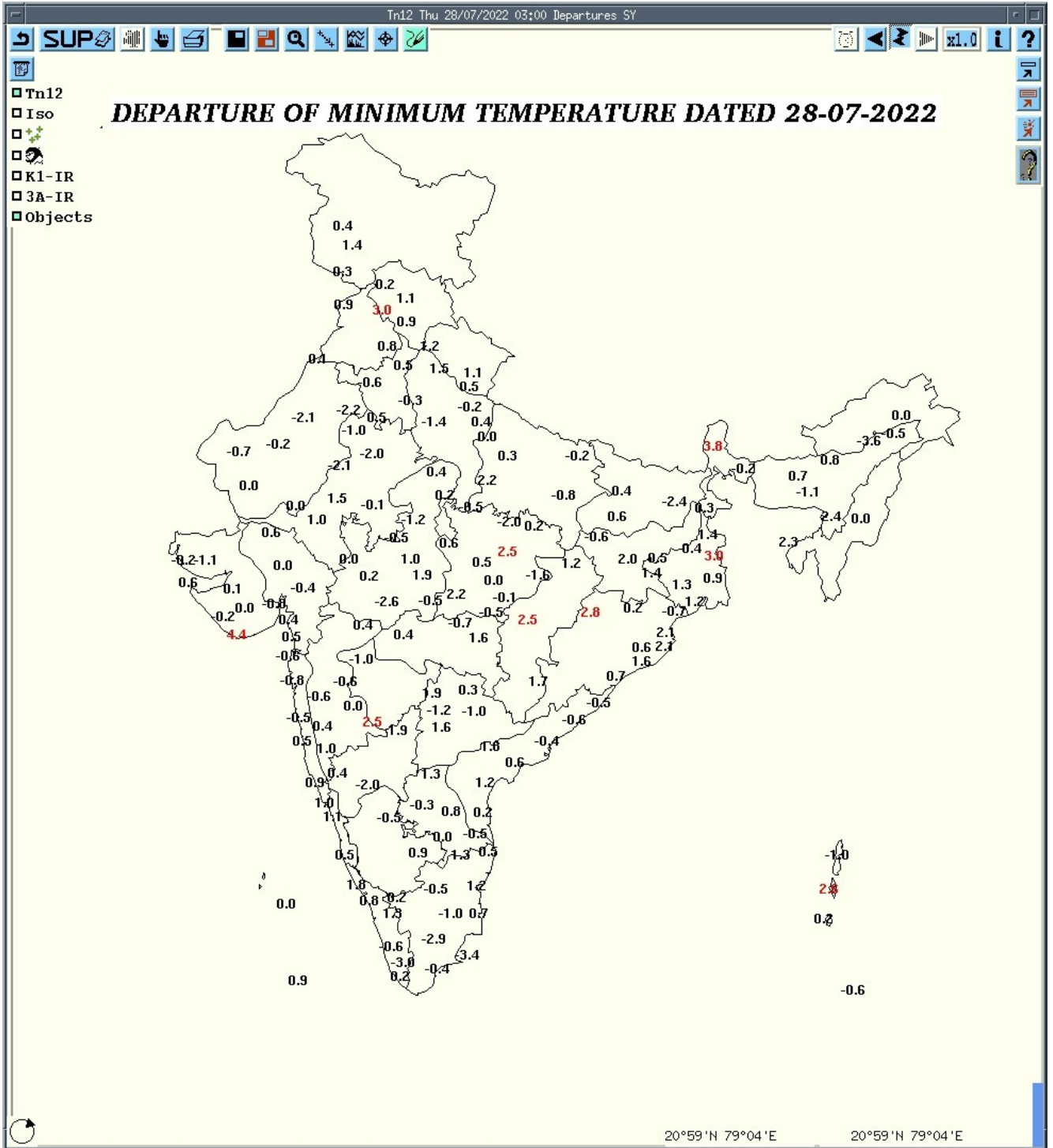
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Fig. 5 : Departure from Normal of Minimum Temperatures



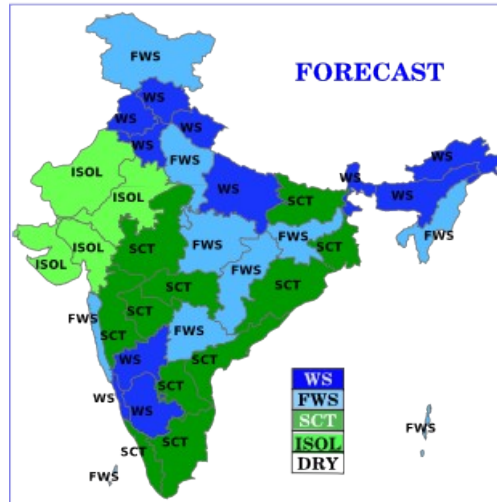
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Friday 29 July 2022



29 July (Day 1): ♦ **Heavy to very heavy rainfall** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh and Assam & Meghalaya and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over North Rajasthan, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

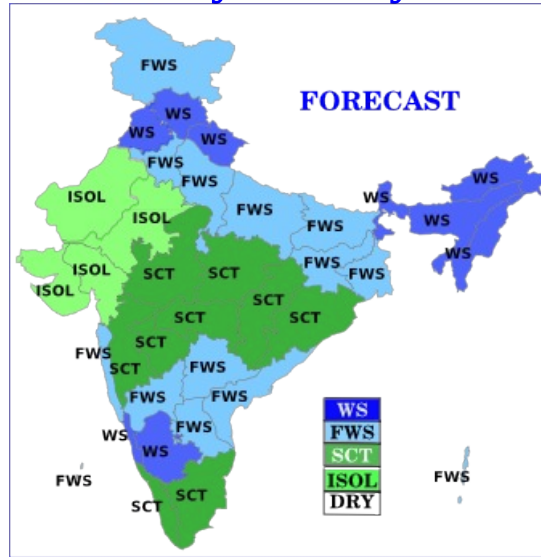
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Saturday 30 July 2022



30 July (Day 2): ♦ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh, East Uttar Pradesh, Bihar, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Telangana, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

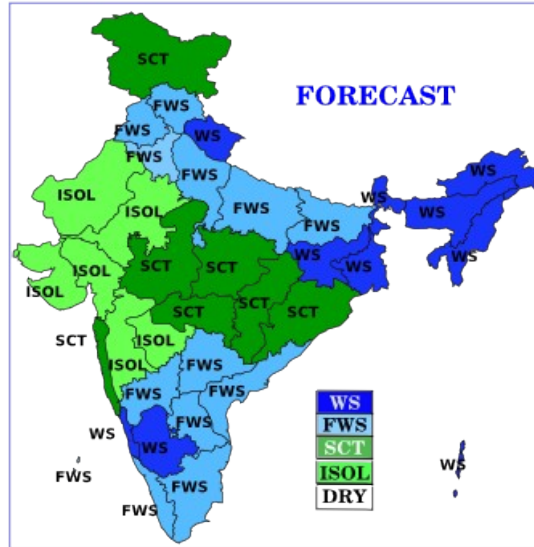
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Sunday 31 July 2022



31 July (Day 3): ♦ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh, East Uttar Pradesh, Bihar, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph likely over Comorin area. Fishermen are advised not to venture into these areas.

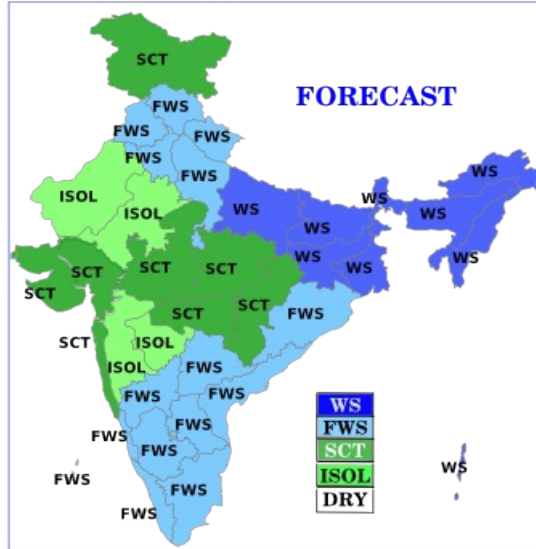
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Monday 01 August 2022



01 Aug (Day 4): ♦**Heavy to very heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph likely over Comorin area. Fishermen are advised not to venture into these areas.

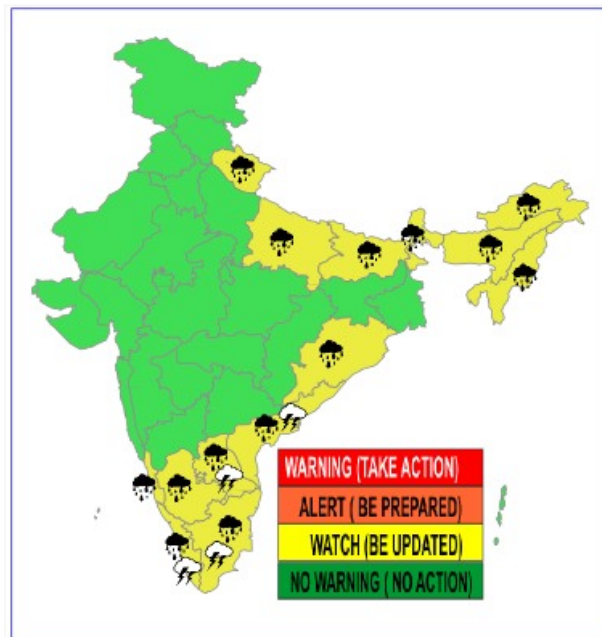
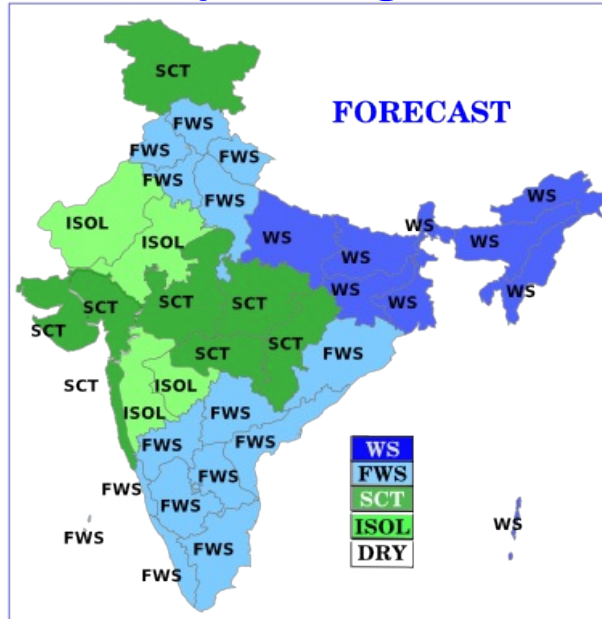
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Tuesday 02 August 2022



02 Aug (Day 5): ♦ **Heavy to very heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph likely over Comorin area. Fishermen are advised not to venture into these areas.

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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 एंवम् यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् माहे
- 36 लक्षद्वीप



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

SPATIAL DISTRIBUTION (% of Stations reporting)

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

WARNING

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

Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copies of the Manual are 1077)

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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(Created by the Meteorology Dept)