



Thursday 28 July 2022

MORNING

Time of Issue: 0740 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The **monsoon trough** at mean sea level runs near its normal position. It is very likely to continue to shift northwards during next 2-3 days.
- ◆ A **cyclonic circulation** lies over central parts of Rajasthan and another over Westcentral Bay of Bengal off Andhra Pradesh coast in lower tropospheric levels.
- ◆ Under the influence of above systems;
 - 1) Fairly widespread/widespread rainfall with isolated heavy falls and thunderstorm/lightning very likely over Jammu & Kashmir on 28th & 29th; Himachal Pradesh, north Punjab, north Haryana-Chandigarh and West Uttar Pradesh during 28th-31st July and Uttarakhand and East Uttar Pradesh during 28th-30th July & 01st August July, 2022.
 - a) **Isolated very heavy rainfall** also very likely over north Haryana-Chandigarh & Himachal Pradesh on 28th & 29th; Uttarakhand during 28th-30th and over East Uttar Pradesh on 30th July, 2022.
 - 2) Fairly widespread/widespread light/moderate rainfall with thunderstorm & lightning very likely to continue over Central, West, East and South India during next 2-3 days.
 - a) **Isolated heavy falls** very likely over Jharkhand on 28th; Bihar & Telangana on 28th & 29th; Rayalaseema & Coastal Andhra Pradesh on 30th & 31st July and 01st August and over Tamil Nadu, Puducherry & Karaikal 28th-31st July & 01st August, 2022.
 - b) **Isolated very heavy rainfall** also likely over Bihar on 30th & 31st July & 01st August, 2022.
 - 3) 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 28th-31st July & 01st August, 2022.
 - a) **Isolated very heavy rainfall** also very likely over Sub-Himalayan West Bengal & Sikkim during 27th-30th; Assam & Meghalaya and Arunachal Pradesh on 30th & 31st July & 01st August, 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 Arunachal Pradesh and Uttarakhand; at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Saurashtra & Kutch and South Interior Karnataka; at a few places over Assam & Meghalaya, Himachal Pradesh, West Uttar Pradesh, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra and Kerala & Mahe and at isolated places over Gangetic West Bengal, East Uttar Pradesh, West Rajasthan, West Madhya Pradesh, North Interior Karnataka, Odisha and Tamil Nadu, Puducherry & Karaikal.

◆ **Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall at isolated places over East Madhya Pradesh.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday)(2 cm or more):** Chindwara-8; Shimla and Pune-6; Phalodi-4; Jalpaiguri and Itanagar-3; Malanjkhanda, Sidhi, Amritsar, Amreli and Mahuva-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, East Uttar Pradesh, Punjab, Haryana, Rajasthan, Madhya Pradesh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Vidarbha, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

◆ **Minimum Temperature Departures (as on 27-07-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Kerala & Mahe; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and at isolated places over Himachal Pradesh and Odisha. 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 West Rajasthan, East Madhya Pradesh; at isolated places over West Madhya Pradesh and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 17.3° was reported at Khargone (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 27-07-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Chhattisgarh and at a few places over Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Coastal & South Interior Karnataka; at many places over Gangetic West Bengal, Jharkhand, Odisha and Kerala & Mahe; at a few places over Nagaland, Manipur, Mizoram & Tripura and Telangana and at isolated places over Assam & Meghalaya, West Madhya Pradesh, Konkan & Goa, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at a few places over West Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; below normal (-1.6°C to -3.0°C) at many places over Uttarakhand; at a few places over West Uttar Pradesh, East Rajasthan and Sub-Himalayan West Bengal & Sikkim and at isolated places over Himachal Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.2°C was reported at Fatehgarh (West Uttar Pradesh).

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **monsoon trough** at mean sea level now passes through Ganganagar, Narnaul, Agra, Prayagraj, Ranchi, Kolkata and thence eastwards to Manipur.
- ◆ The cyclonic circulation over central parts of Rajasthan & neighbourhood extending upto 4.5 km above mean sea level persists.
- ◆ The cyclonic circulation over Westcentral Bay of Bengal off Andhra Pradesh coast extending upto 3.1 km above mean sea level tilting southwards with height persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 02nd 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 02nd August - 04th 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 *

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

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are very likely over southwest Arabian Sea off Somalia coast and 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

29 July (Day 2): ♦ **Heavy to very heavy rainfall** likely at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, West Uttar Pradesh, East Uttar Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Tamil Nadu, Puducherry & Karaikal

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

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

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

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

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area and southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

31 July (Day 4): ♦ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Bihar, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

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

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area and southwest Bay of Bengal off south Sri Lanka coast. Fishermen are advised not to venture into these areas.

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

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

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area and southwest Bay of Bengal off south Sri Lanka coast. 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)
28-July-2022

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

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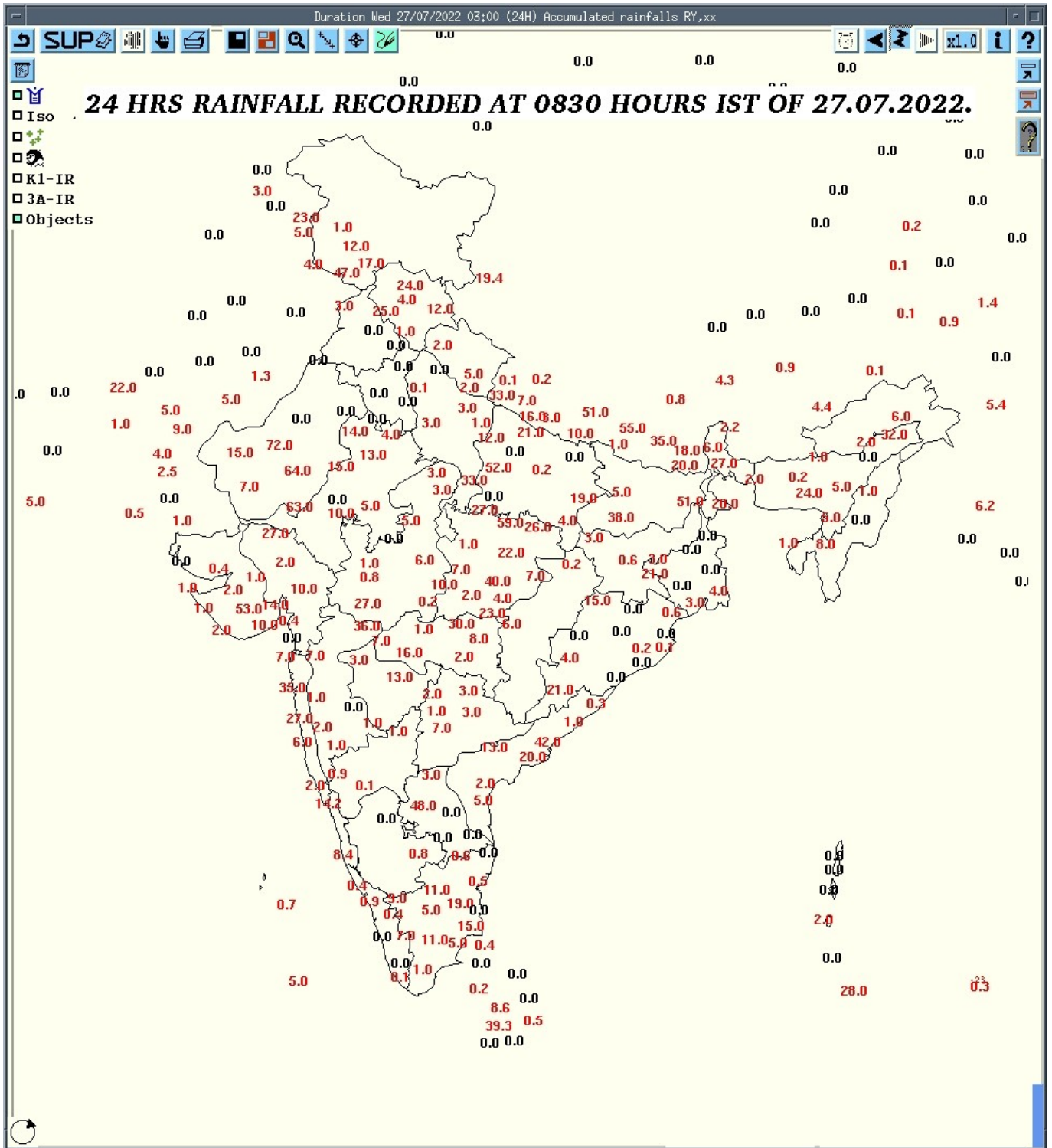
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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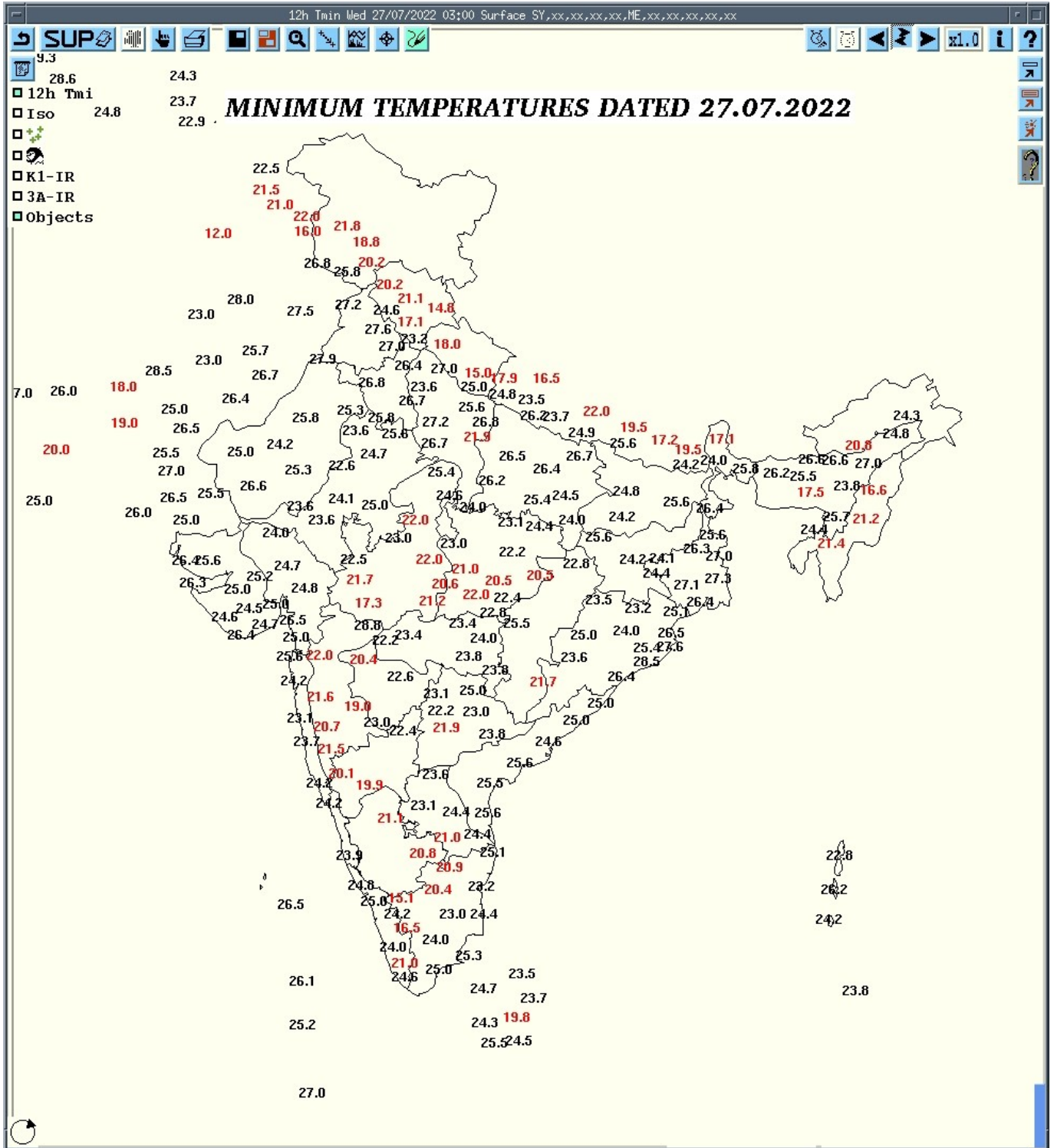
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(Created by the MetInfo team 19/07/2022)



Fig. 3: Minimum Temperature during past 24 hours



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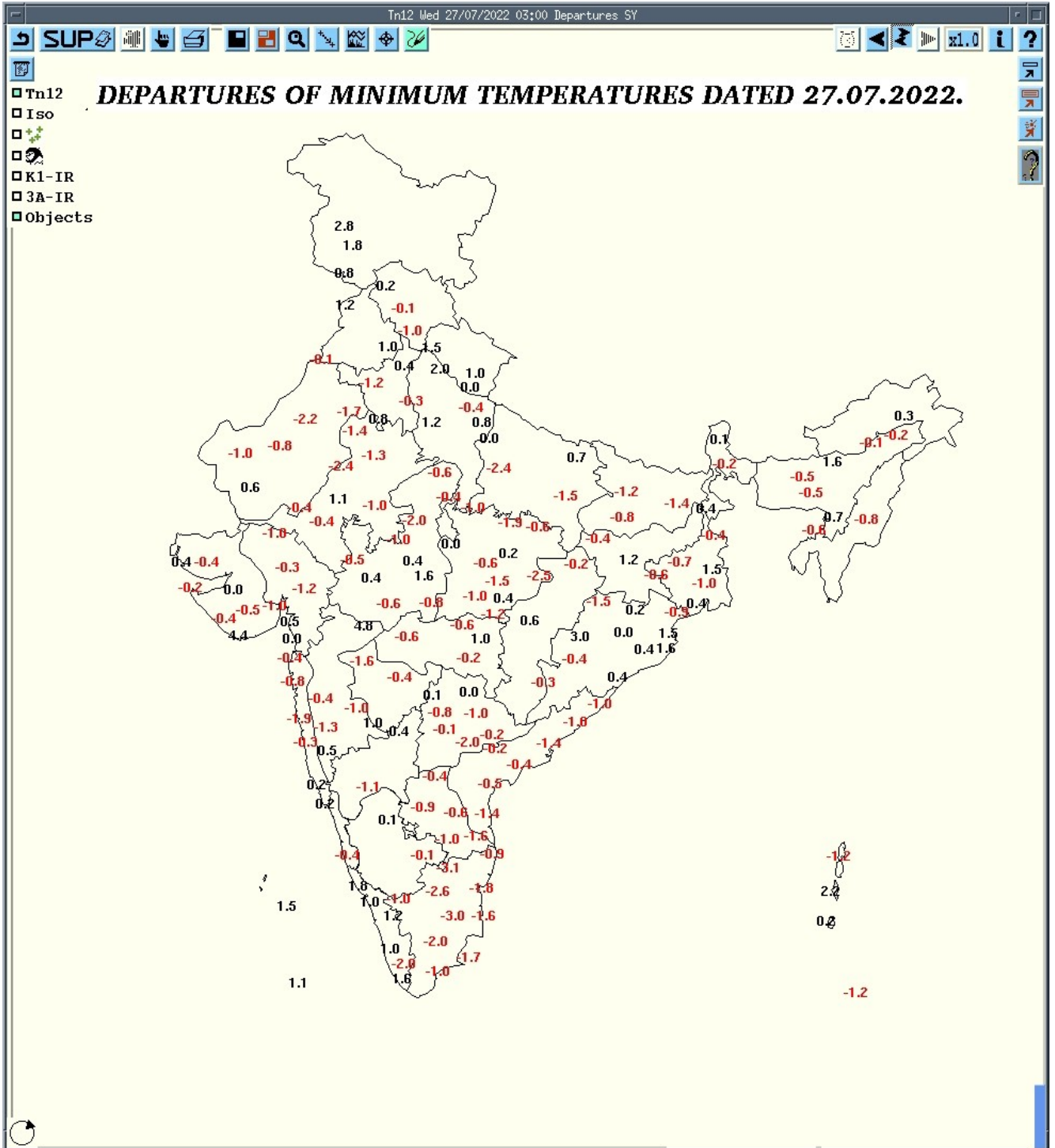
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(Created by the MetInfo@IMD)



Fig. 5 : Departure from Normal of Minimum Temperatures



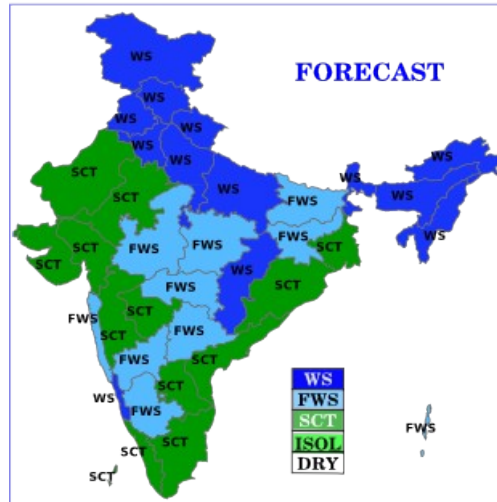
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Thursday 28 July 2022



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

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are very likely over southwest Arabian Sea off Somalia coast and 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

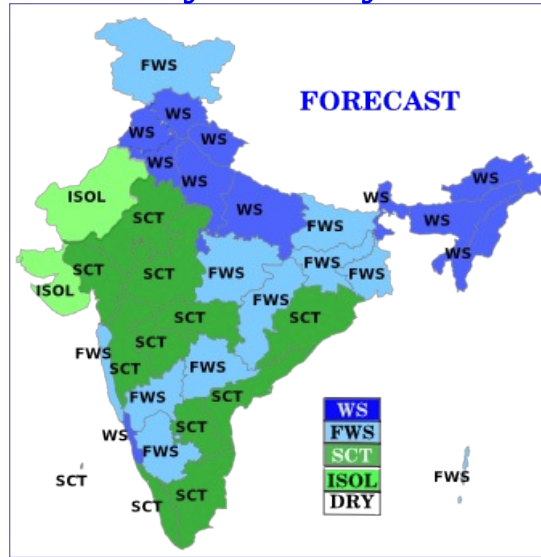
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Friday 29 July 2022



29 July (Day 2): ♦ Heavy to very heavy rainfall likely at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, West Uttar Pradesh, East Uttar Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Tamil Nadu, Puducherry & Karaikal

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

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

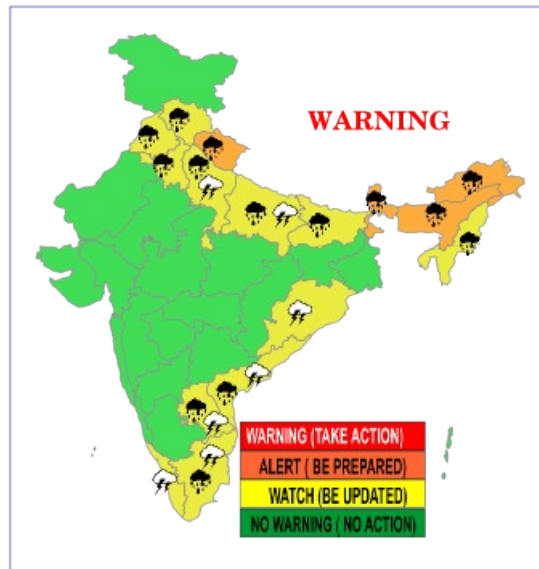
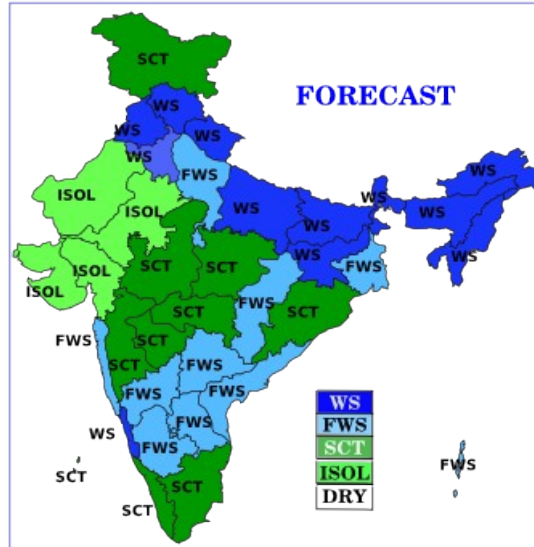
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Saturday 30 July 2022



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

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

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area and southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

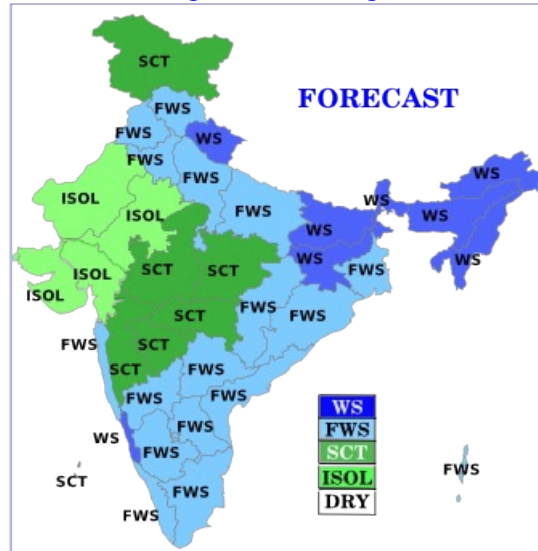
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Sunday 31 July 2022



31 July (Day 4): ♦ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Bihar, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

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

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area and southwest Bay of Bengal off south Sri Lanka coast. Fishermen are advised not to venture into these areas.

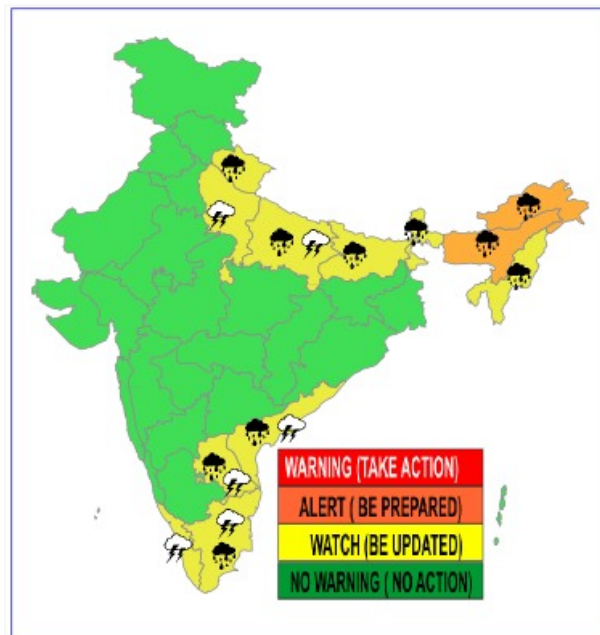
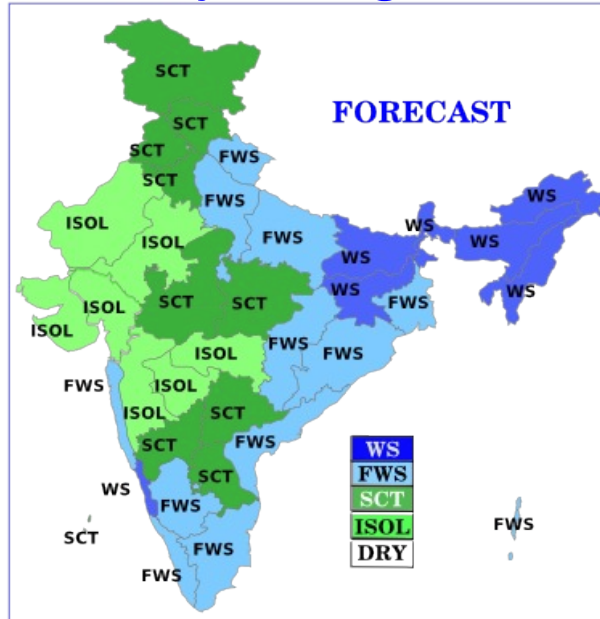
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Monday 01 August 2022



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

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

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area and southwest Bay of Bengal off south Sri Lanka coast. Fishermen are advised not to venture into these areas.

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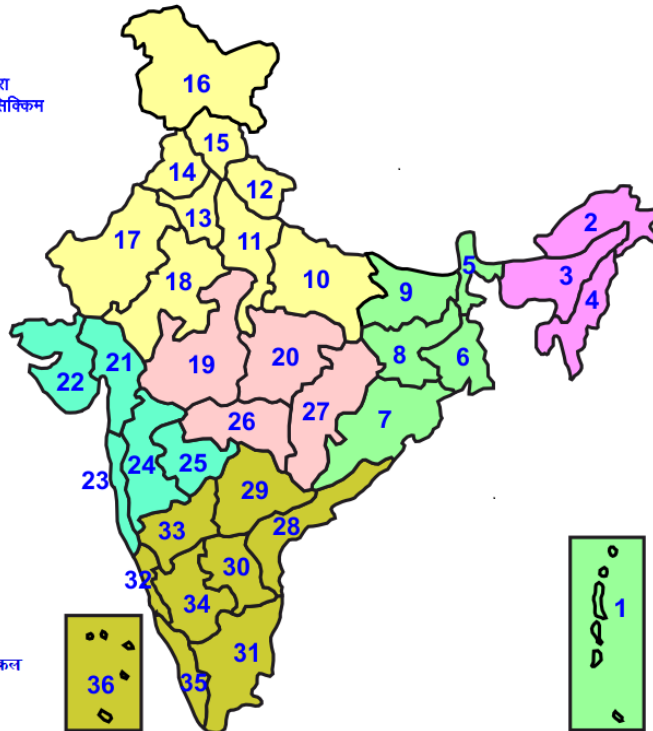
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LEGENDS

- 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

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 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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