



Thursday 18 August 2022

MORNING

Time of Issue: 0830 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ Under the influence of a cyclonic circulation over south Myanmar & neighbourhood, a **Low Pressure Area** has formed over northeast and adjoining areas of eastcentral Bay of Bengal, Bangladesh-Myanmar coasts at 0530 hrs IST of today, the 18th August. The associated cyclonic circulation extends upto 7.6 km above mean sea level. It is likely to move west- northwestwards and become more marked during next 12 hours and concentrate into a Depression during subsequent 24 hours.
- ◆ The **Well marked low pressure area** over southwest Rajasthan & adjoining southeast Pakistan and associated cyclonic circulation extending upto 7.6 km above mean sea level persists. It is very likely to continue to move west-northwestwards and concentrate into a Depression over southeast Pakistan during next 12 hours
- ◆ The western end of monsoon trough is south of its normal position, is likely to remain so during next 24 hours and shift gradually northwards thereafter. The eastern end of monsoon trough is near normal position.
- ◆ The off-shore trough runs along south Gujarat and Maharashtra coasts at mean sea level.
- ◆ Under the influence of the above systems:
 - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over East Rajasthan & ghat areas of Madhya Maharashtra on 21st & 22nd; Saurashtra & Kutch on 18th and over Konkan & Goa on 20th, 21st & 22nd August, 2022.
 - o Fairly widespread/widespread light/moderate rainfall is likely over Gangetic West Bengal, Odisha, Jharkhand, Vidarbha, Chhattisgarh and Madhya Pradesh during 18th-22nd August, 2022.
 - i) Isolated **heavy rainfall with and thunderstorm/lightning** very likely over Gangetic West Bengal on 18th & 19th; Odisha during 18th-20th; Jharkhand on 19th & 20th; East Madhya Pradesh & Chhattisgarh during 19th-21st; Vidarbha on 20th-22nd and over West Madhya Pradesh on 21st & 22nd August, 2022.
 - ii) Isolated **heavy to very heavy rainfall** also likely over East Madhya Pradesh & Chhattisgarh on 20th & 21st; Vidarbha on 21st and over Odisha on 19th & 20th August, 2022.
 - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Uttarakhand during 18th-20th; Himachal Pradesh during 19th-21st and over East Uttar Pradesh on 19th & 20th August, 2022.
 - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Sub-Himalayan West Bengal & Sikkim on 19th; Assam & Meghalaya during 19th-21st and over Nagaland, Manipur, Mizoram & Tripura during 18th-21st August, 2022.
 - o Scattered to isolated light/moderate rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Tamil Nadu, Puducherry & Karaikal on 18th 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 West Rajasthan, Saurashtra & Kutch, Konkan & Goa and Coastal Karnataka; at many places over East Rajasthan, Gujarat region and Madhya Maharashtra; at a few places over Jammu & Kashmir, Himachal Pradesh, West Madhya Pradesh, Andaman & Nicobar Islands, Odisha and North Interior Karnataka and at isolated places over East Madhya Pradesh, Assam & Meghalaya, Bihar, West Bengal & Sikkim, Marathwada and Telangana.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (1 cm or more):** Deesa-8; Long Island-5; Barmer-4; Porbandar, Bulsar and Maya Bandar-3 each; Batote, Jaisalmer, Amreli, Keshod, Daman and Matheran-2 each; Gulmarg, Kota, Baroda, Naliya, Dwarka, Okha, Kandla, Mumbai (Santacruz), Mahabaleshwar, Ratnagiri and Port Blair-1 each.

◆ **Heavy Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall occurred in isolated places over Gujarat Region.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana and Odisha.

◆ **Minimum Temperature Departures (as on 17-08-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan and Muzaffarabad and Gangetic West Bengal and at isolated places over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at a few places over Rajasthan and at isolated places over East Madhya Pradesh and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 21.0°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 17-08-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya, Gangetic West Bengal and Chhattisgarh; at a few places over Bihar, Odisha, Telangana and Kerala & Mahe; at isolated places over Sub-Himalayan West Bengal & Sikkim, Vidarbha and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Jharkhand and Coastal & South Interior Karnataka; at many places over East Uttar Pradesh, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Rayalaseema; at a few places over Himachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at isolated places over West Madhya Pradesh, Madhya Maharashtra and North Interior Karnataka. They were markedly below normal (-5.1°C to Less) at many places over West Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Gujarat state; below normal (-1.6°C to -3.0°C) at many places over East Rajasthan; at a few places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.2°C was reported at Cooch Behar (Sub-Himalayan West Bengal).

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ Under the influence of a cyclonic circulation over south Myanmar & neighbourhood, a **Low Pressure Area** has formed over northeast and adjoining areas of eastcentral Bay of Bengal, Bangladesh-Myanmar coasts at 0530 hrs IST of today, the 18th August. The associated cyclonic circulation extends upto 7.6 km above mean sea level. It is likely to move west- northwestwards and become more marked during next 12 hours and concentrate into a Depression during subsequent 24 hours.
- ◆ The **Well marked low pressure area** over southwest Rajasthan & adjoining southeast Pakistan and associated cyclonic circulation extending upto 7.6 km above mean sea level persists. It is very likely to continue to move west-northwestwards and concentrate into a Depression over southeast Pakistan during next 12 hours
- ◆ The **monsoon trough** at mean sea level now passes through **well marked low pressure area** over southwest Rajasthan & adjoining southeast Pakistan, Ajmer, Gwalior, Varanasi, Gaya, Bankura, Digha and thence east-southeastwards to the **Low Pressure Area** over northeast and adjoining areas of eastcentral Bay of Bengal, Bangladesh-Myanmar coasts.
- ◆ The off-shore trough at mean sea level along south Gujarat and Maharashtra coasts persists.
- ◆ The north-south trough from South Interior Karnataka to Comorin area at 0.9 km above mean sea level persists.
- ◆ The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long.67°E to the north of Lat.34°N persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 23rd August 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over the country during next 5 days.

Weather Outlook for subsequent 2 days During 23rd August - 25th August, 2022

- ◆ A fresh Low Pressure Area is likely to form over North Bay of Bengal around 19th August, 2022 leading to heavy rainfall activity over East and Central India.
- ◆ Scattered/fairly widespread light/moderate rainfall activity likely over Northwest, West & South Peninsular India.

Weather Warning during next 5 days *

18 Aug (Day 1): ♦ Heavy rainfall at isolated places very likely over Uttarakhand, southwest Rajasthan, Saurashtra & Kutch, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally winds** Squally winds of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over north & adjoining central Bay of Bengal, west-central and adjoining southwest Arabian Sea. Fishermen are advised not to venture into these seas.

19 Aug (Day 2): ♦ Heavy to very heavy rainfall at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Marathwada, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally winds** of 55-65 kmph gusting to 75 kmph likely over north & adjoining central Bay of Bengal along & off Odisha and West Bengal Coasts becoming 40-50 gusting to 60 over the same area from evening of 19th; **Squally winds** Squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely over northwest Bay of Bengal, along and off West Bengal and Odisha coasts. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea. Fishermen are advised not to venture into these seas.

20 Aug (Day 3): ♦ Heavy to very heavy rainfall at isolated places over East Madhya Pradesh, Chhattisgarh and Odisha; **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Vidarbha, Jharkhand, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** Squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely over northwest Bay of Bengal, along and off West Bengal and Odisha coasts. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest Arabian Sea. Fishermen are advised not to venture into these seas.

21 Aug (Day 4): ♦ Heavy to very heavy rainfall at isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh; **heavy rainfall** at isolated places over Himachal Pradesh, East Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** Squally winds of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea. Fishermen are advised not to venture into these seas.

22 Aug (Day 5): ♦ Heavy to very heavy rainfall at isolated places over Madhya Pradesh, East Rajasthan and Vidarbha; **heavy rainfall** at isolated places over Himachal Pradesh, Chhattisgarh, Madhya Maharashtra, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** Squally winds of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea. Fishermen are advised not to venture into these seas.

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)
18-August-2022

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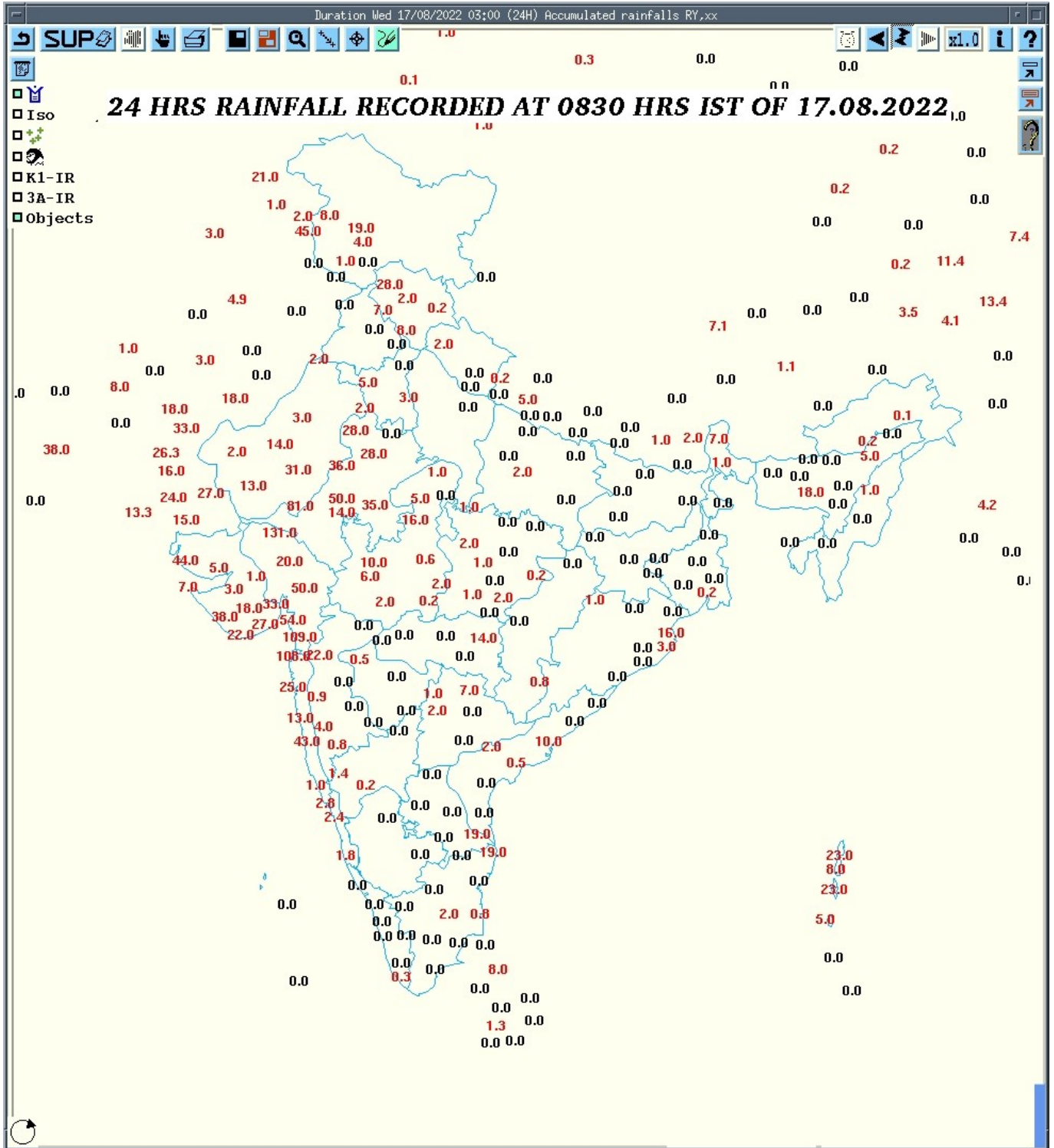
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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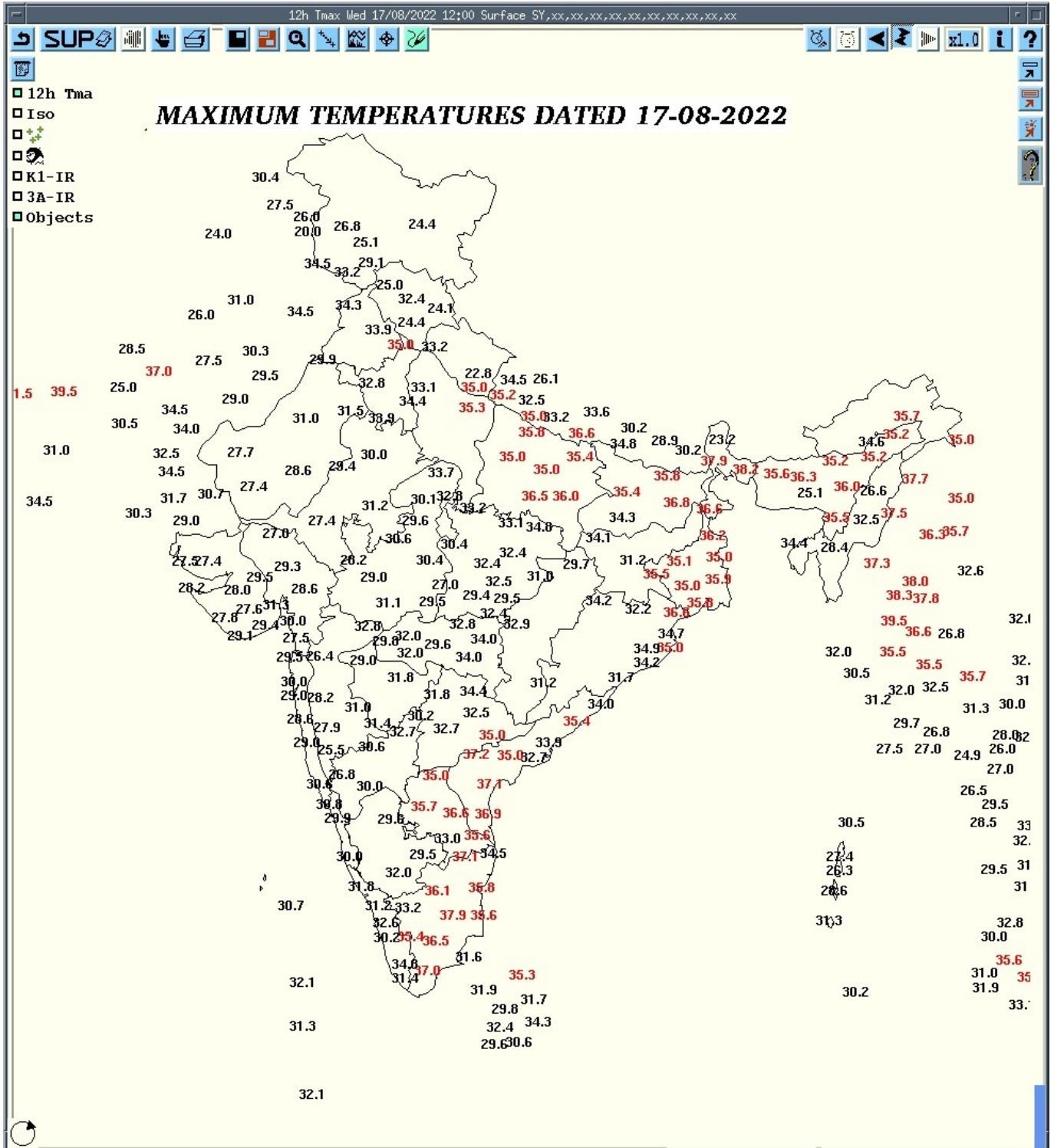
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Fig. 2: Maximum Temperature during past 24 hours



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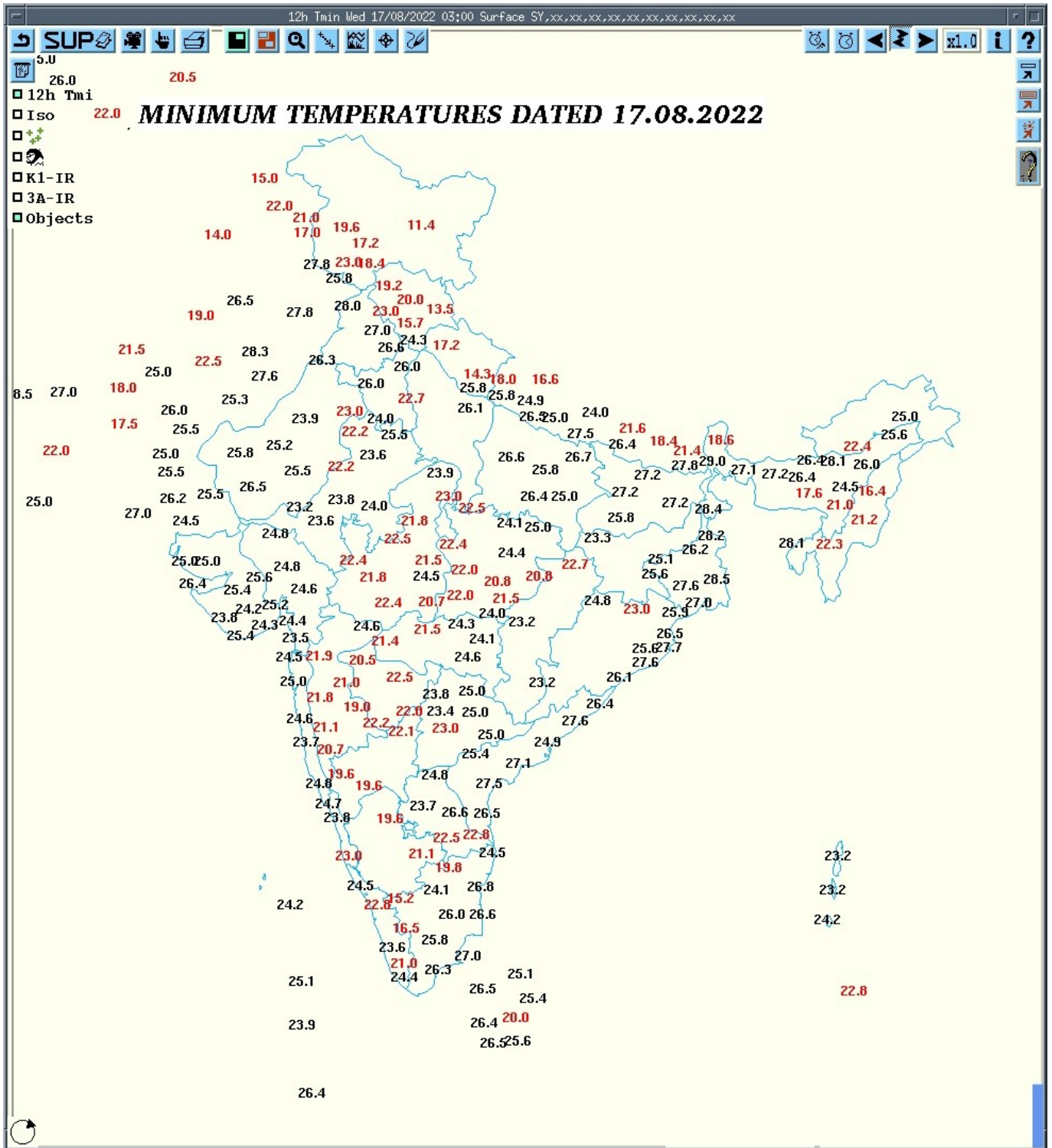
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Fig. 3: Minimum Temperature during past 24 hours



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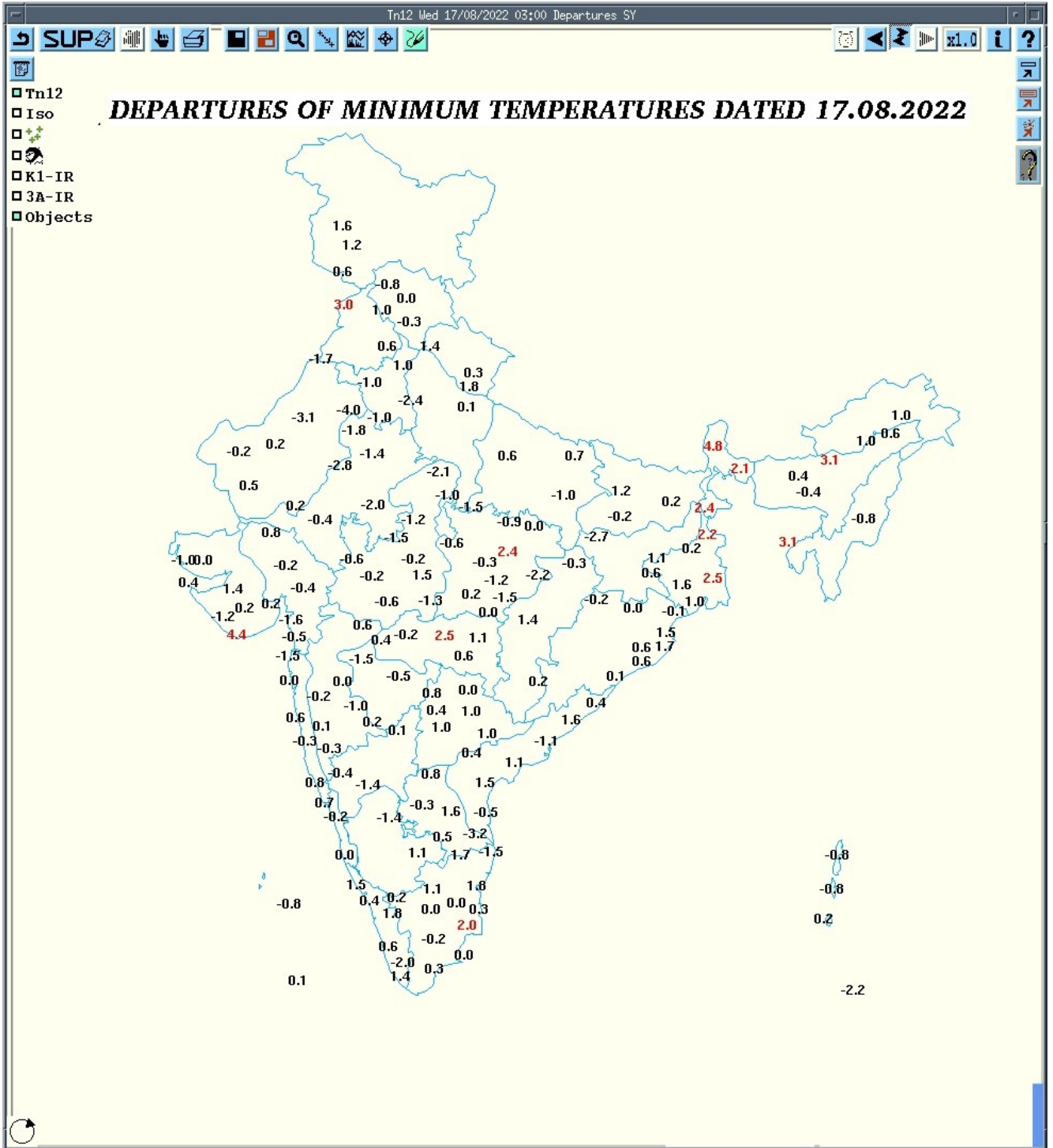
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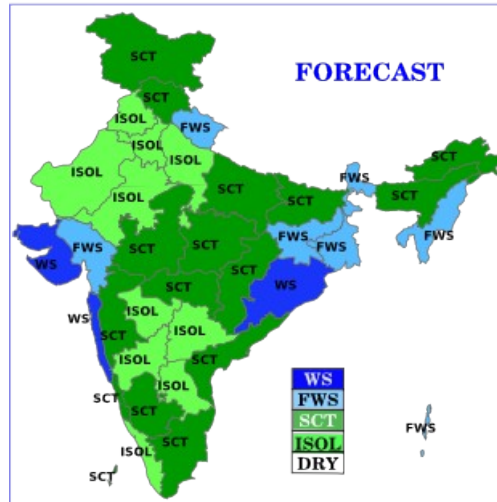


Fig. 5 : Departure from Normal of Minimum Temperatures



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Thursday 18 August 2022



18 Aug (Day 1): ♦ Heavy rainfall at isolated places very likely over Uttarakhand, southwest Rajasthan, Saurashtra & Kutch, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Tamilnadu, Puducherry & Karaikal.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦**Squally winds** Squally winds of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over north & adjoining central Bay of Bengal, west-central and adjoining southwest Arabian Sea. Fishermen are advised not to venture into these seas.

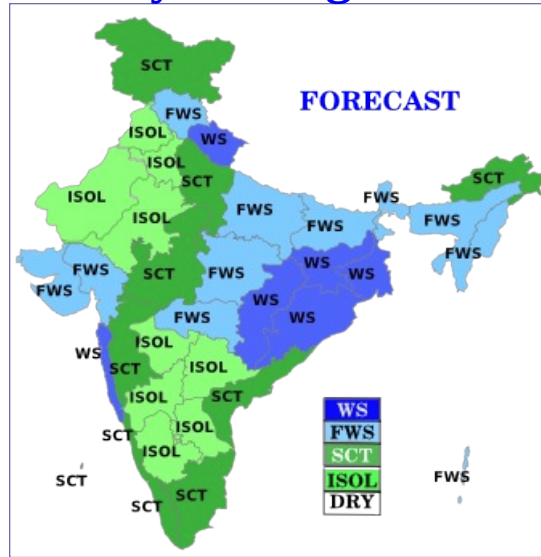
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Friday 19 August 2022



19 Aug (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Marathwada, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally winds** of 55-65 kmph gusting to 75 kmph likely over north & adjoining central Bay of Bengal along & off Odisha and West Bengal Coasts becoming 40-50 gusting to 60 over the same area from evening of 19th; **Squally winds** Squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely over northwest Bay of Bengal, along and off West Bengal and Odisha coasts. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, adjoining east-central Arabian Sea. Fishermen are advised not to venture into these seas.

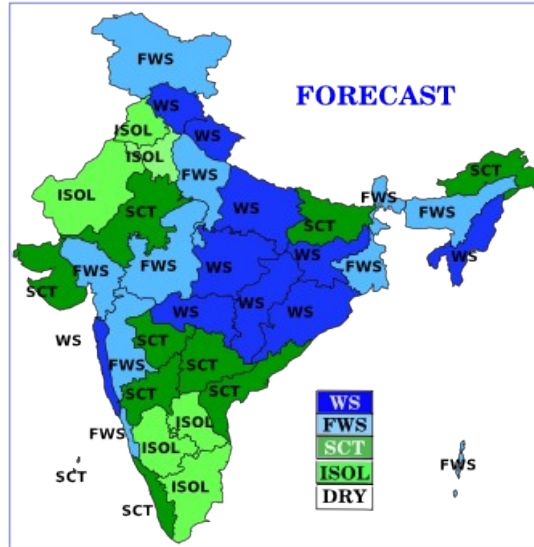
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Saturday 20 August 2022



20 Aug (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Chhattisgarh and Odisha; **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Vidarbha, Jharkhand, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** Squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely over northwest Bay of Bengal, along and off West Bengal and Odisha coasts. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, adjoining northwest Arabian Sea. Fishermen are advised not to venture into these seas.

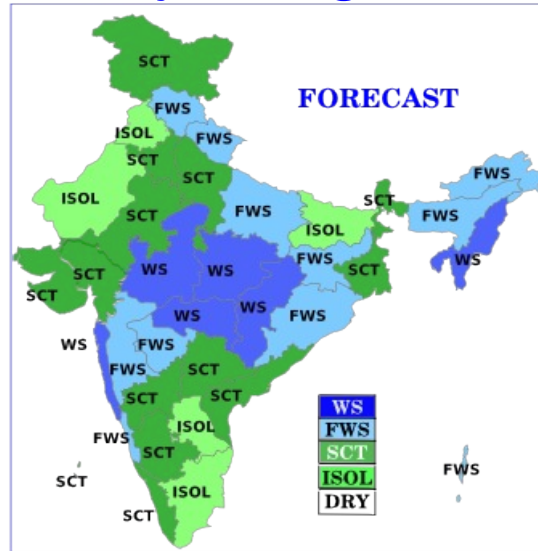
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Sunday 21 August 2022



21 Aug (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh; **heavy rainfall** at isolated places over Himachal Pradesh, East Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** Squally winds of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea. Fishermen are advised not to venture into these seas.

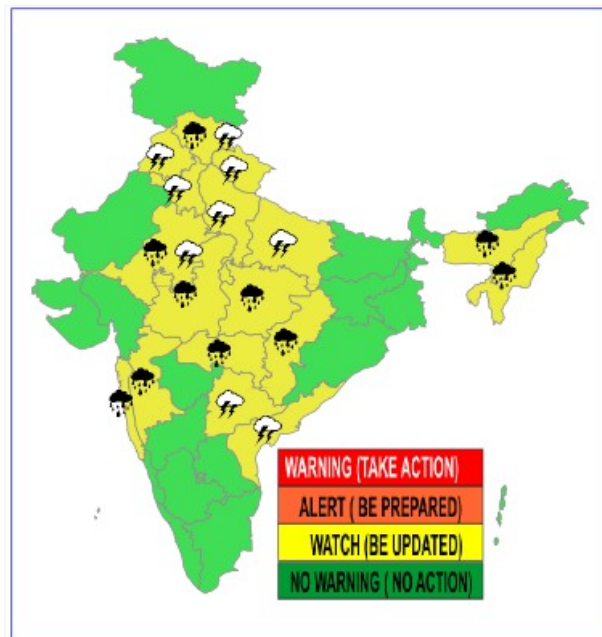
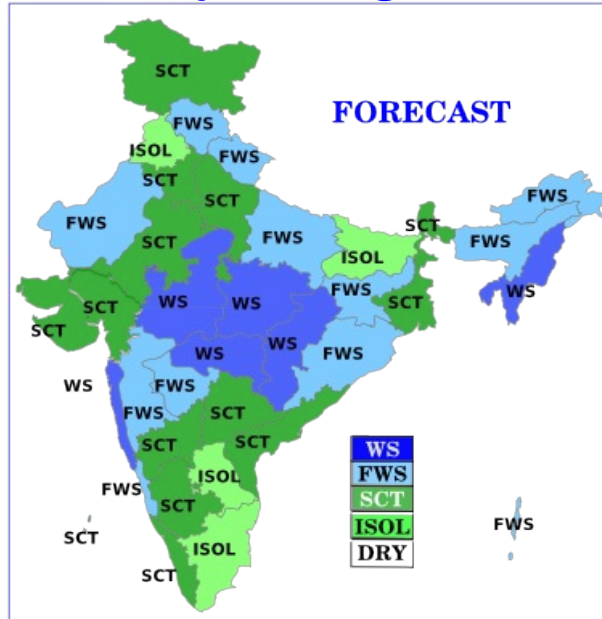
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Monday 22 August 2022



22 Aug (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places over Madhya Pradesh, East Rajasthan and Vidarbha; **heavy rainfall** at isolated places over Himachal Pradesh, Chhattisgarh, Madhya Maharashtra, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** Squally winds of 50-60 kmph gusting to 70 kmph likely over northwestern parts of southwest Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea. Fishermen are advised not to venture into these seas.

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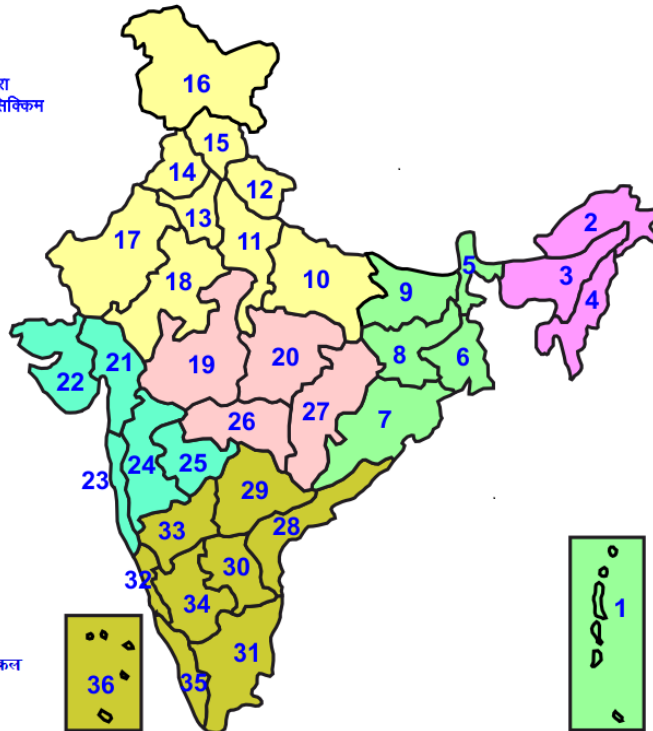
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल 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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