



Sunday 21 August 2022

EVENING

Time of Issue: 1645 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ♦ The **Depression** over Northwest Chhattisgarh and adjoining Northeast Madhya Pradesh moved west-northwestwards during past 06 hours with a speed of 18 kmph and lay centered at 1130 hrs IST of today, the 21st August, 2022 over Northeast Madhya Pradesh near latitude 24.0°N and longitude 81.2°E, about 60 km north-northeast of Umaria (Madhya Pradesh), 70 km south-southeast of Satna (Madhya Pradesh) and 170 km east of Damoh (Madhya Pradesh). It would continue to move west-northwestwards across north Madhya Pradesh and weaken into a Well Marked Low Pressure Area during next 24 hours.
- ♦ The western end of the **monsoon trough** at mean sea level continues to run along the foothills of Himalayas and its eastern end runs south of the normal position.
- ♦ **Under the influence of the above systems:**
 - (i) Fairly widespread/widespread light/moderate rainfall with isolated **heavy to very heavy rainfall with extremely heavy falls** very likely over West Madhya Pradesh on 21st & 22nd and East Rajasthan on 22nd August, 2022.
 - (ii) Fairly widespread/widespread light/moderate rainfall with isolated **heavy to very heavy falls** and thunderstorm/lightning very likely over East Madhya Pradesh on 21st, East Rajasthan on 21st & 23rd, ghat areas of Madhya Maharashtra on 21st & 22nd, West Rajasthan and northern parts of Gujarat Region on 23rd August, 2022.
 - (iii) Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Vidarbha on 21st, Chhattisgarh on 21st & 25th, Konkan & Goa on 21st & 22nd, East Madhya Pradesh & northern parts of Gujarat Region on 22nd, West Rajasthan on 22nd & 24th; Gangetic West Bengal, ghat area of Madhya Maharashtra & Odisha on 23rd and Saurashtra & Kutch on 24th & 25th August, 2022.
 - (iv) Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over southwest Uttar Pradesh on 21st, south Haryana on 22nd, Himachal Pradesh on 23rd & 24th and Uttarakhand on 24th August, 2022.
 - (v) Fairly widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 22nd & 23rd August, 2022.
 - (vi) Fairly widespread to widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Coastal Karnataka on 21st, 22nd, 24th & 25th; South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal during 23rd -25th August, 2022.
 - (vii) Widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Andaman & Nicobar Islands during 21st & 22nd August, 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 of yesterday to 0830 hours IST of today):** at **most places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka and Lakshadweep; at **many places** over East Uttar Pradesh, Odisha, Andaman & Nicobar Islands and Nagaland, Manipur, Mizoram & Tripura; at **a few places** over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Interior Karnataka and at **isolated places** over Rajasthan, Gujarat state, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today):** Heavy to very heavy rainfall at isolated places occurred over Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha and heavy rainfall at isolated places over Jammu & Kashmir, Himachal Pradesh, Assam & Meghalaya, Madhya Maharashtra and Coastal Karnataka.

♦ **Chief amount of Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today):(7 cm or more):** **Odisha:** Sundargarh: Banaigarh-14, Bargaon-9, Rayagada: Ambadola-10; **East Madhya Pradesh:** Channodi (dist Shahdol) 17, Orchha (dist Niwari) 16, Benibari (dist Anuppur) 16, Niwari (dist Niwari) 15, Anuppur-aws (dist Anuppur) 15, Panna-aws (dist Panna) 15, Mohargarh (dist Tikamgarh) 15, Umari-aws (dist Umari) 14, Venkatnagar (dist Anuppur) 14, Amarapur (dist Dindori) 13, Jaitpur (dist Shahdol) 12, Pushprajgarh (dist Anuppur) 12, Kareli (dist Narsinghpur) 12, Pali (dist Umari) 12, Dindori-aws (dist Dindori) 12; **West Madhya Pradesh:** Chanderi (dist Ashoknagar) 15, Pichhore (dist Shivpuri) 13, Pathari (dist Vidisha) 12, Khaniyadana (dist Shivpuri) 10, Gairatgang (dist Raisen) 9, Isagarh (dist Ashoknagar) 8, Mungaoli (dist Ashoknagar) 8, Begumganj (dist Raisen) 8, Udaipura (dist Raisen) 7, Badarwas (dist Shivpuri) 7, Ater (dist Bhind) 7, Pipariya (dist Narmadapuram) 7, Guna-aws (dist Guna) 7, Kumbhraj (dist Guna) 7, Ganjbasoda (dist Vidisha) 7, Gormi (dist Bhind) 7, Bhandar (dist Datia) 7; **Chhattisgarh:** Kusmi (dist Balrampur) 15, Ramanujnagar (dist Surajpur) 13, Premnagar (dist Surajpur) 9, Rajpur (dist Balrampur) 9, Khadgava (dist Koriya) 9, Surajpur (dist Surajpur) 9, Balrampur (dist Balrampur) 9, Odagi (dist Surajpur) 9, Bhaiyathan (dist Surajpur) 8, Sonhat (dist Koriya) 8, Baikunthpur (dist Koriya) 8, Bagicha (dist Jashpur) 8, Lailunga (dist Raigarh) 8, Duldula (dist Jashpur) 7, Janakpur (dist Koriya) 7, Jashpurnagar (dist Jashpur) 7, Pendra Road (dist Bilaspur) 7, Ambikapur (dist Surguja) 7, Manora (dist Jashpur) 7; **Jharkhand:** Simdega: Bano Simdega Kvk Aws-13; Ranchi: Mandar-11, Ranchi Aero -7; Bokaro: Gomia-10; Gumla: Gumla Bishnupur Kvk Aws -10; Khunti: Diyakel Khunti Kvk Aws-10; **Himachal Pradesh:** Chamba: Dalhousi Alha Aws-7; **Punjab:** Ranjit Sagar Dam Site (dist Pathankot) 8; **East Uttar Pradesh:** Chitrakoot-9, Pratapgarh-8, Sonbhadra-8; **Coastal Karnataka:** Udupi (dist Udupi) 11, Kota (dist Udupi) 8; **Jammu & Kashmir:** Reasi: Katra-7.

♦ **Thunderstorm observed (from 0830 hours IST to 1430 hours IST of today):** at isolated places over Himachal Pradesh, Jharkhand, Sub-Himalayan West Bengal and Madhya Pradesh.

♦ **Minimum Temperature Departures (as on 21-08-2022):** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at many places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; at a few places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, West Uttar Pradesh and Odisha and at isolated places over West Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal. They are **below normal (-1.6°C to -3.0°C)** at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh; at isolated places over East Uttar Pradesh and East Madhya Pradesh and near normal over rest parts of the country. **Today, the lowest minimum temperature of 21.0°C** is reported at **Narsinghpur (East Madhya Pradesh)** over the plains of the country.

♦ **Maximum Temperature Departures (as on 20-08-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Assam & Meghalaya; at isolated places over Arunachal Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at a few places over Sub-Himalayan West Bengal & Sikkim and East Uttar Pradesh and at isolated places over Gangetic West Bengal, East Rajasthan, Vidarbha and Tamil Nadu, Puducherry & Karaikal. They were **markedly below normal (-5.1°C to less)** at a few places over Himachal Pradesh; **appreciably below normal (3.1°C to 5.0°C)** at most places over Jharkhand; at a few places over West Rajasthan and at isolated places over West Madhya Pradesh and Odisha; **below normal (-1.6°C to -3.0°C)** at many places over Bihar and at a few places over East Madhya Pradesh and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 37.1°C** was reported at **Ongole and Numgambakkam (Coastal Andhra Pradesh and Tamilnadu).**



Meteorological Analysis (Based on 1430 hours IST)

- ◆ The **Depression** over Northwest Chhattisgarh and adjoining Northeast Madhya Pradesh moved west-northwestwards during past 06 hours with a speed of 18 kmph and lay centered at 1130 hrs IST of today, the 21 st August, 2022 over Northeast Madhya Pradesh near latitude 24.0°N and longitude 81.2°E, about 60 km north-northeast of Umaria (Madhya Pradesh), 70 km south-southeast of Satna (Madhya Pradesh) and 170 km east of Damoh (Madhya Pradesh). It would continue to move west-northwestwards across north Madhya Pradesh and weaken into a **Well Marked Low Pressure Area** during next 24 hours.
- ◆ The western end of the **monsoon trough** at mean sea level continues to run along the foothills of Himalayas and its eastern end now passes through Bareilly, Kanpur centre of Depression over Northeast Madhya Pradesh, Ambikapur, Jamshedpur, Diamond Harbour and thence eastwards to northeast Bay of Bengal.
- ◆ The **Low Pressure Area** over southeast Pakistan & neighbourhood with associated cyclonic circulation extending upto 5.8 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 now runs roughly along Long. 62°E & to the north of Lat. 30°N.

Weather Forecast for next 5 days * upto 0830 hours IST of 26th 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 26th August - 28th August, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall activity likely over most parts of the country except Rajasthan, Maharashtra and Gujarat where isolated to scattered rainfall activity is likely.

Weather Warning during next 5 days *

21 Aug (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over West Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over East Rajasthan, East Madhya Pradesh and Madhya Maharashtra and **heavy rainfall** at isolated places over southwest Uttar Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning & gusting wind (40-50 Kmph gusting to 60 Kmph)** at isolated places very likely over Madhya Pradesh and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Bay of Bengal. **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, along and off Somalia coast, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

22 Aug (Day 2): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over East Rajasthan and West Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over Madhya Maharashtra and **heavy rainfall** at isolated places over south Haryana, East Madhya Pradesh, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Karnataka and Kerala coasts, Lakshadweep area, central parts of south Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, along and off north Maharashtra and south Gujarat coasts, southwest Bay of Bengal off Sri Lanka coast, Gulf of Mannar and along and off south Tamil Nadu coast, southwestern parts of west-central Bay of Bengal. Fishermen are advised not to venture into these seas.

23 Aug (Day 3): ♦ Heavy to very heavy rainfall at isolated places very likely over Rajasthan and Gujarat Region and **heavy rainfall** at isolated places over Himachal Pradesh, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Gujarat Region, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Karnataka and Kerala coasts, Lakshadweep area, southwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, along and off south Gujarat coast, southwest Bay of Bengal off Sri Lanka coast, Gulf of Mannar and along and off south Tamil Nadu coast. Fishermen are advised not to venture into these seas.

24 Aug (Day 4): ♦ Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, West Rajasthan, Saurashtra & Kutch, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Karnataka and Kerala coasts, Lakshadweep area, southwest Bay of Bengal off Sri Lanka coast, Comorin area. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, along and off north Gujarat coast and adjoining northeast Arabian Sea. Fishermen are advised not to venture into these seas.

25 Aug (Day 5): ♦ Heavy rainfall at isolated places over Chhattisgarh, Saurashtra & Kutch, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Karnataka and Kerala coasts, Lakshadweep area, southwest Bay of Bengal off Sri Lanka coast, Comorin area. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast. 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 (EVENING)
21-August-2022

Met-Sub-Division	21-Aug Today	22Aug Mon	23Aug Tue	24Aug Wed	25Aug Thu
1. Andaman & Nicobar Islands	WS	WS	WS	FWS	FWS
2. Arunachal Pradesh	SCT	SCT	SCT	SCT	SCT
3. Assam & Meghalaya	SCT	FWS	FWS	FWS	FWS
4. N. M. M. & T.	FWS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	FWS	SCT	FWS	SCT	SCT
6. Gangetic West Bengal	FWS	SCT	FWS	FWS	SCT
7. Odisha	SCT	ISOL	FWS	FWS	FWS
8. Jharkhand	SCT	ISOL	FWS	FWS	FWS
9. Bihar	SCT	ISOL	SCT	SCT	SCT
10. East Uttar Pradesh	SCT	SCT	ISOL	SCT	FWS
11. West Uttar Pradesh	SCT	SCT	ISOL	ISOL	SCT
12. Uttarakhand	SCT	SCT	SCT	FWS	FWS
13. Haryana, Chd & Delhi	SCT	SCT	ISOL	SCT	SCT
14. Punjab	ISOL	ISOL	ISOL	SCT	SCT
15. Himachal Pradesh	FWS	FWS	WS	WS	WS
16. J & K and Ladakh	SCT	SCT	SCT	FWS	FWS
17. West Rajsthan	ISOL	FWS	WS	FWS	ISOL
18. East Rajasthan	WS	WS	WS	FWS	ISOL
19. West Madhya Pradesh	WS	WS	FWS	ISOL	ISOL
20. East Madhya Pradesh	WS	FWS	ISOL	SCT	FWS
21. Gujarat Region	SCT	FWS	WS	FWS	SCT
22. Saurashtra & Kutch	SCT	SCT	SCT	FWS	SCT
23. Konkan & Goa	WS	WS	WS	WS	FWS
24. Madhya Maharashtra	FWS	FWS	SCT	SCT	SCT
25. Marathawada	SCT	ISOL	ISOL	ISOL	ISOL
26. Vidharbha	FWS	SCT	ISOL	SCT	SCT
27. Chhattisgarh	FWS	SCT	ISOL	FWS	FWS
28. Coastal A. P. & Yanam	SCT	ISOL	SCT	SCT	SCT
29. Telangana	ISOL	ISOL	ISOL	SCT	SCT
30. Rayalaseema	ISOL	ISOL	ISOL	SCT	SCT
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	SCT	FWS	FWS
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	SCT	SCT	SCT	SCT	SCT
34. South Interior Karnataka	SCT	SCT	FWS	FWS	FWS
35. Kerala & Mahe	SCT	FWS	FWS	WS	WS
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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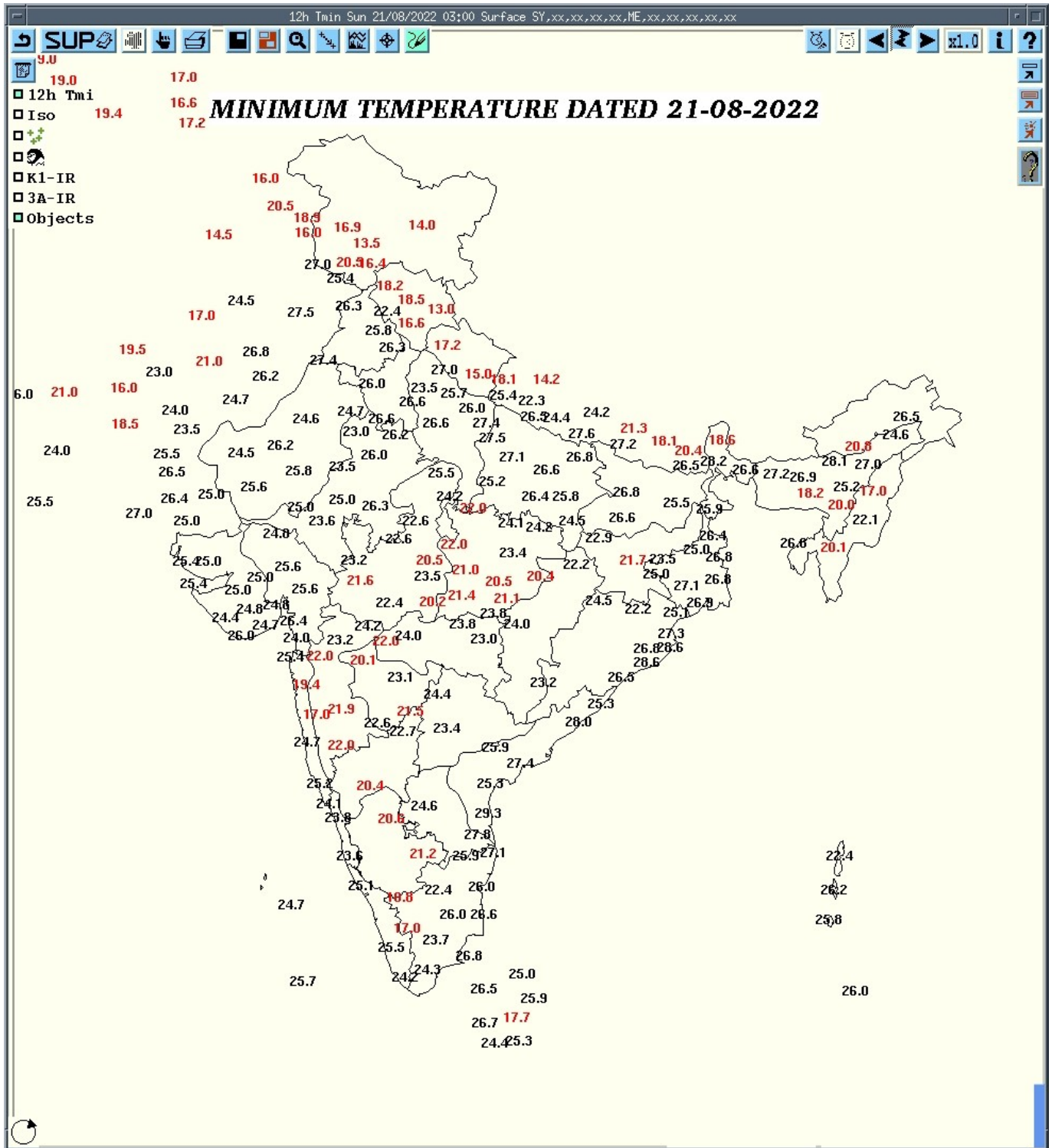
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(Committed to the Nation since 1975)

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(Owing to the Nation class 4075)

Fig. 3: Minimum Temperature during past 24 hours



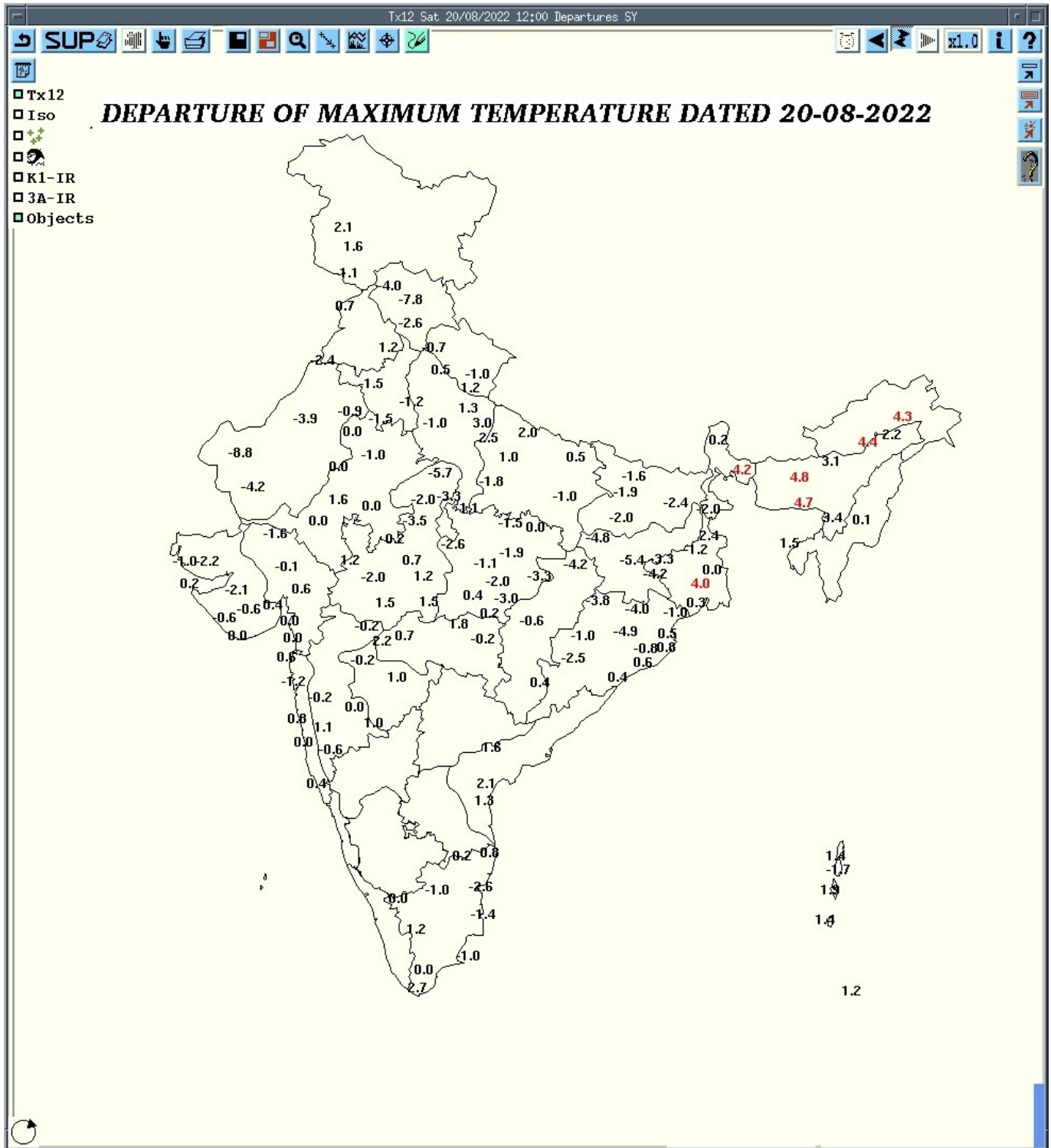
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Fig. 4 : Departure from Normal of Maximum Temperatures



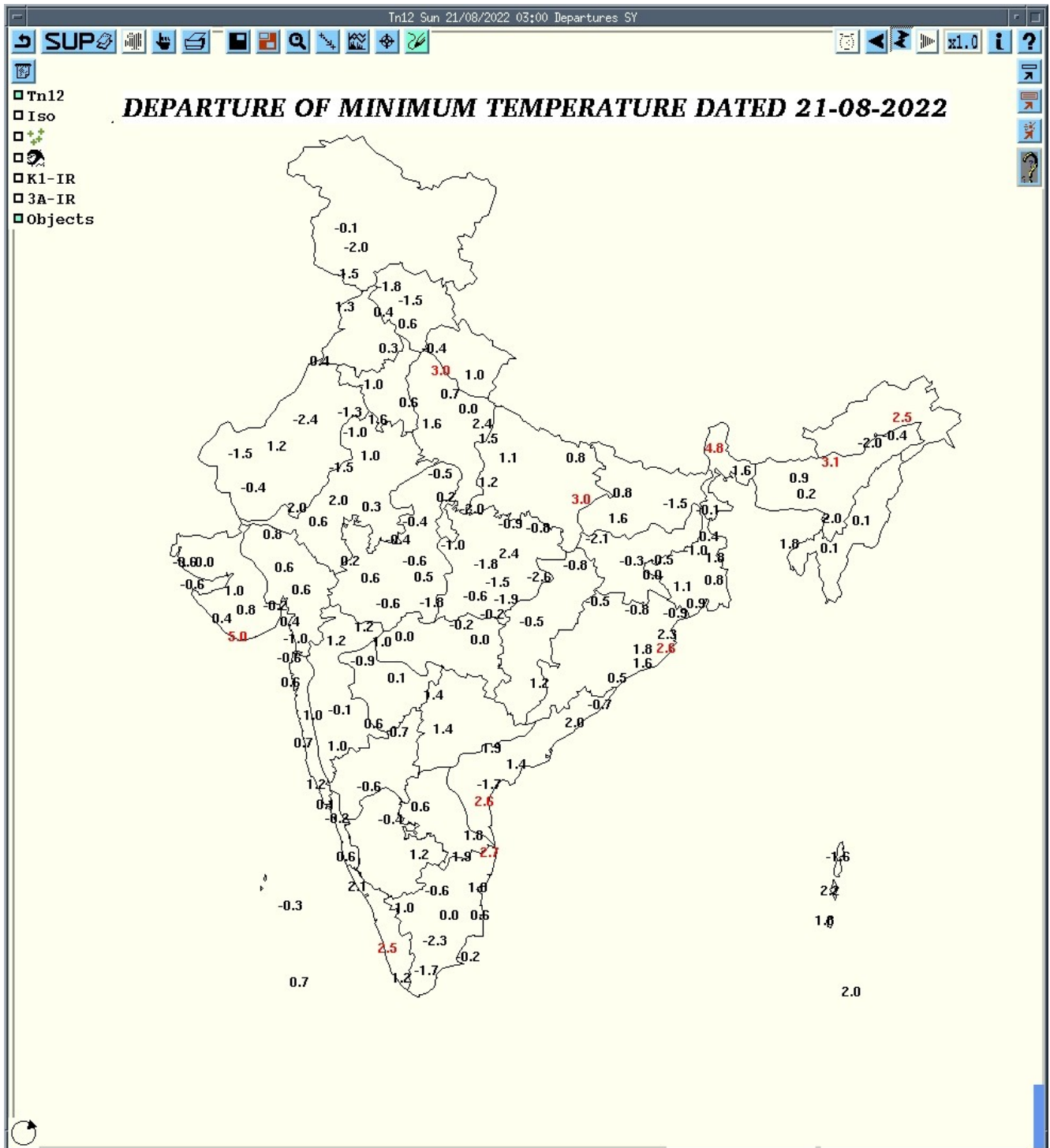
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Fig. 5 : Departure from Normal of Minimum Temperatures



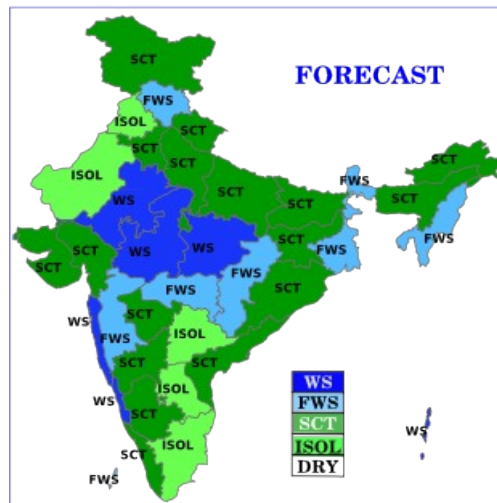
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(Owing to the Nation class 4075)

Sunday 21 August 2022



21 Aug (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over West Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over East Rajasthan, East Madhya Pradesh and Madhya Maharashtra and **heavy rainfall** at isolated places over southwest Uttar Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning & gusting wind (40-50 Kmph gusting to 60 Kmph)** at isolated places very likely over Madhya Pradesh and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Bay of Bengal. **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, along and off Somalia coast, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

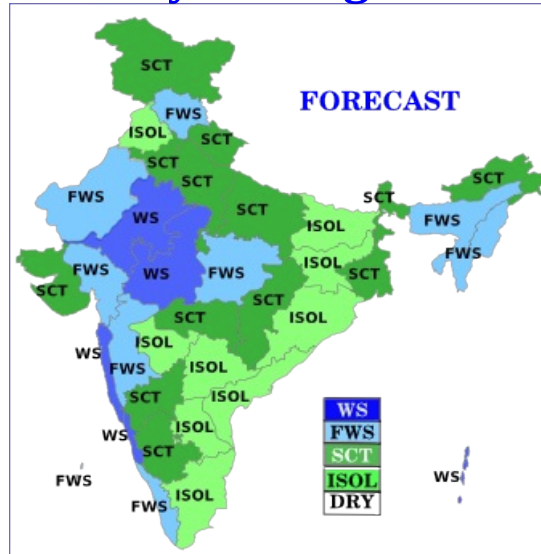
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Monday 22 August 2022



22 Aug (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over East Rajasthan and West Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over Madhya Maharashtra and **heavy rainfall** at isolated places over south Haryana, East Madhya Pradesh, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Karnataka and Kerala coasts, Lakshadweep area, central parts of south Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, along and off north Maharashtra and south Gujarat coasts, southwest Bay of Bengal off Sri Lanka coast, Gulf of Mannar and along and off south Tamil Nadu coast, southwestern parts of west-central Bay of Bengal. Fishermen are advised not to venture into these seas.

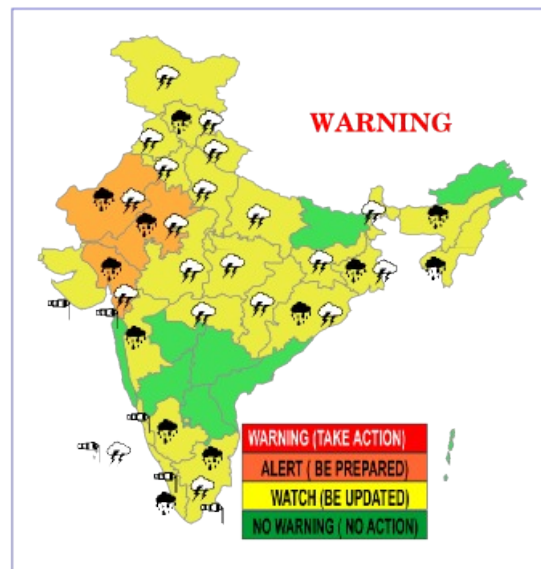
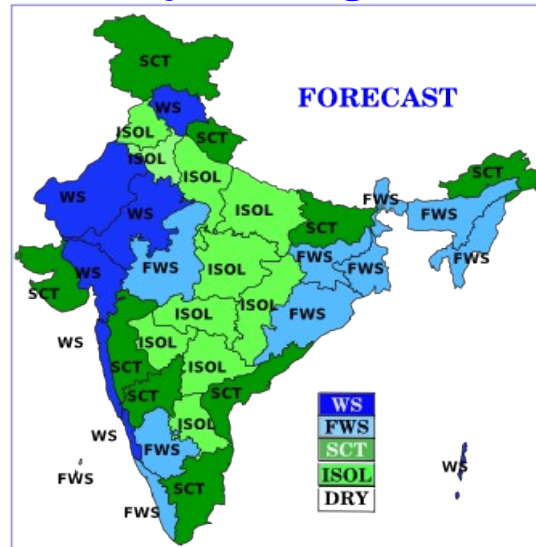
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Tuesday 23 August 2022



23 Aug (Day 3): ♦ Heavy to very heavy rainfall at isolated places very likely over Rajasthan and Gujarat Region and **heavy rainfall** at isolated places over Himachal Pradesh, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Gujarat Region, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Karnataka and Kerala coasts, Lakshadweep area, southwest Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, along and off south Gujarat coast, southwest Bay of Bengal off Sri Lanka coast, Gulf of Mannar and along and off south Tamil Nadu coast. Fishermen are advised not to venture into these seas.

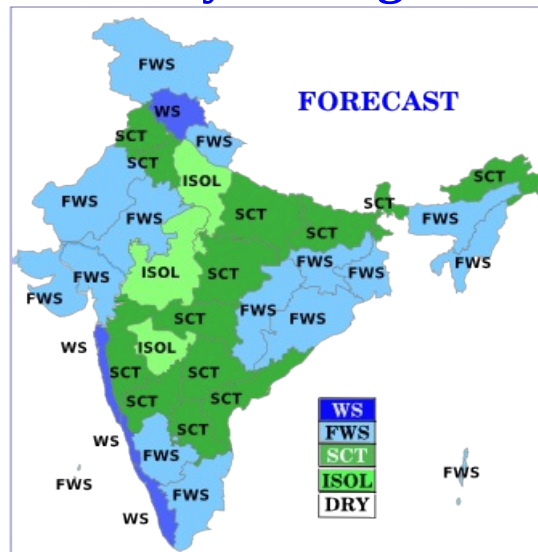
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Wednesday 24 August 2022



24 Aug (Day 4): ♦ Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, West Rajasthan, Saurashtra & Kutch, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Karnataka and Kerala coasts, Lakshadweep area, southwest Bay of Bengal off Sri Lanka coast, Comorin area. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast, along and off north Gujarat coast and adjoining northeast Arabian Sea. Fishermen are advised not to venture into these seas.

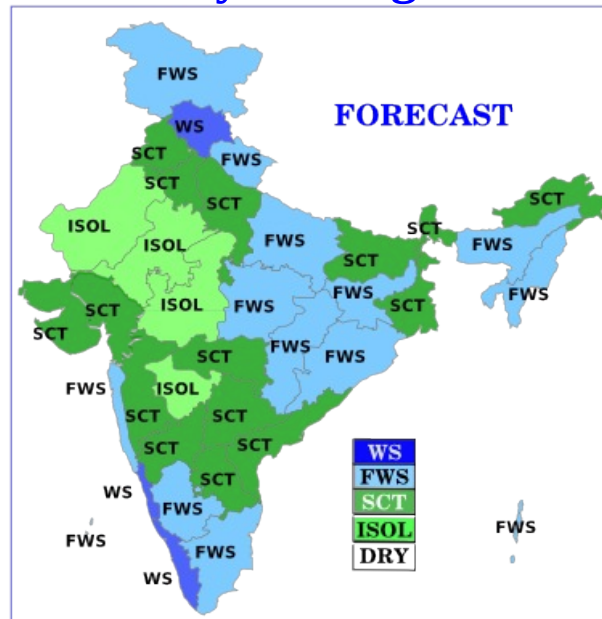
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Thursday 25 August 2022



25 Aug (Day 5): ♦ **Heavy rainfall** at isolated places over Chhattisgarh, Saurashtra & Kutch, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Karnataka and Kerala coasts, Lakshadweep area, southwest Bay of Bengal off Sri Lanka coast, Comorin area. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central Arabian Sea, adjoining northeast Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

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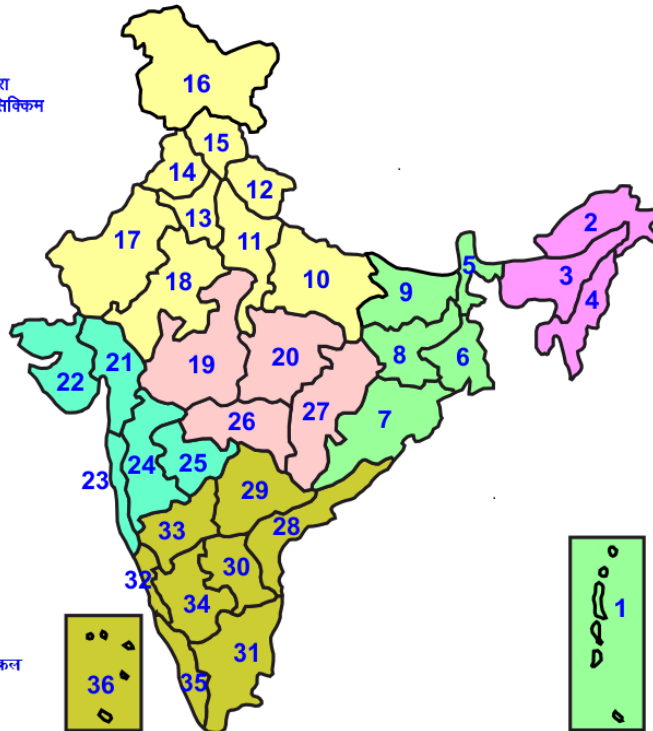
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ 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. Marathwada
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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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 Strom: Wind speed > 220 kmph (> 119 knots)

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