

Wednesday 24 August 2022

MORNING

Time of Issue: 0745 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The **Well Marked Low Pressure Area** lies over southwest Rajasthan & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwards with height.
- ◆ The western end of the **monsoon trough** at mean sea level is south of its normal position and eastern end is near its normal position.
- ◆ A cyclonic circulation lies over North Bay of Bengal & neighbourhood extending upto middle tropospheric levels.
- ◆ **Under the influence of the above systems:**
 - (i) Widespread light/moderate rainfall with isolated **heavy falls** & thunderstorm/lightning very likely over southwest Rajasthan on 24th; Chhattisgarh on 26th & 27th August, 2022.
 - (ii) Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** & thunderstorm/lightning very likely over East Uttar Pradesh on 24th; Sub-Himalayan West Bengal & Sikkim on 26th & 27th; Odisha, Jharkhand & Gangetic West Bengal on 24th August, 2022. **Heavy to very heavy rainfall** also likely over Odisha on 24th August, 2022.
 - (iii) Fairly widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Arunachal Pradesh on 26th & 27th; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.
 - (iv) Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Uttarakhand and Jammu & Kashmir on 24th and over Himachal Pradesh on 24th & 25th August, 2022.
 - (v) Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** and thunderstorm/lightning very likely over Coastal Karnataka on 24th; South Interior Karnataka on 24th & 27th; Tamilnadu during 24th-26th and over Kerala & Mahe during 24th-27th August, 2022. **Heavy to very heavy rainfall** also likely over Kerala & Mahe on 24th August, 2022.
 - (vi) **Strong Surface winds** (speed reaching 20-30 kmph gusting to 40 kmph) very likely to prevail over southwest Rajasthan during next 24 hours.

Main Weather Observations

- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Coastal Karnataka, Gangetic West Bengal & Sikkim; at many places over East Rajasthan, Gujarat Region, Konkan & Goa, Lakshadweep, Madhya Maharashtra and Jharkhand; at a few places over West Rajasthan, Saurashtra & Kutch, Kerala & Mahe, Andaman & Nicobar Islands, Bihar, East Uttar Pradesh and West Madhya Pradesh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Odisha and Assam & Meghalaya.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** (3 cm or more): Sub-Himalayan West Bengal & Sikkim: Tadong, Gangtok-5 each; Kalimpong-3; Jharkhand: Ranchi-4; Kerala & Mahe: Valankara-4; West Rajasthan: Jaisalmer-2; Tamilnadu, Puducherry & Karaikal: Cuddalore-2; Gangetic West Bengal: Canning-2.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, Punjab, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Gangetic West Bengal, Assam & Meghalaya, Odisha, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Jharkhand.
- ◆ **Minimum Temperature Departures (as on 23-08-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over Punjab; at a few places over Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands; at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Gangetic West Bengal and Telangana. They were appreciably below normal (3.1°C to 5.0°C) at isolated places over East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at isolated places over East Rajasthan and West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.5°C was reported at Mandla (East Madhya Pradesh) over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 23-08-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya and Telangana; at isolated places over East Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh, Punjab, Vidarbha, Rayalaseema and Coastal Andhra Pradesh & Yanam; at many places over Uttarakhand, West Uttar Pradesh, Arunachal Pradesh, South Interior Karnataka, Odisha and Chhattisgarh; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, North Interior Karnataka and East Madhya Pradesh and at isolated places over Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (3.1°C to 5.0°C) at a few places over West Rajasthan, Gujarat region and West Madhya Pradesh and below normal (-1.6°C to -3.0°C) at most places over East Rajasthan and at a few places over Sub-Himalayan West Bengal & Sikkim and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.3°C was reported at Ongole (Coastal Andhra Pradesh & Yanam).

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Well Marked Low Pressure Area** over central parts of south Rajasthan now lies over southwest Rajasthan & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwards with height.
- ◆ The **monsoon trough** at mean sea level now passes through centre of Well Marked Low Pressure Area over central parts of southwest Rajasthan, Kota, Bhopal, Jabalpur, Ambikapur, Jamshedpur, Diamond Harbour and thence southeastwards to north Bay of Bengal.
- ◆ The cyclonic circulation over Northeast Bay of Bengal & neighbourhood now lies over north Bay of Bengal extending upto 5.8 km above mean sea level tilting southwestwards with height.
- ◆ The **Western Disturbance** as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 65°E & to the north of Lat. 30°N persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 29th 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 29th August - 31st August, 2022

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



Weather Warning during next 5 days *

24 Aug (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Odisha and Kerala & Mahe and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, West Rajasthan, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, West Rajasthan, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka, 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 Gujarat coast and adjoining northeast Arabian Sea, Karnataka and Kerala coasts, Lakshadweep area, Maldives and adjoining Comorin area, southeast and adjoining 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, southwest Bay of Bengal off south Sri Lanka coast, Comorin area, Gulf of Mannar. Fishermen are advised not to venture into these seas.

25 Aug (Day 2): ♦ Heavy rainfall at isolated places very likely over Himachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

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

26 Aug (Day 3): ♦ Heavy rainfall at isolated places likely over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Madhya Pradesh, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

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

27 Aug (Day 4): ♦ Heavy rainfall at isolated places likely over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Tamil Nadu, Puducherry & Karaikal.

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

28 Aug (Day 5): ♦ Heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely southwest Bay of Bengal, off south Sri Lanka coast, Comorin area. **Squally winds** of (45-55 kmph gusting to 65 kmph) likely over west-central and adjoining southwest 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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Table-1
5 Day Rainfall Forecast (MORNING)
24-August-2022

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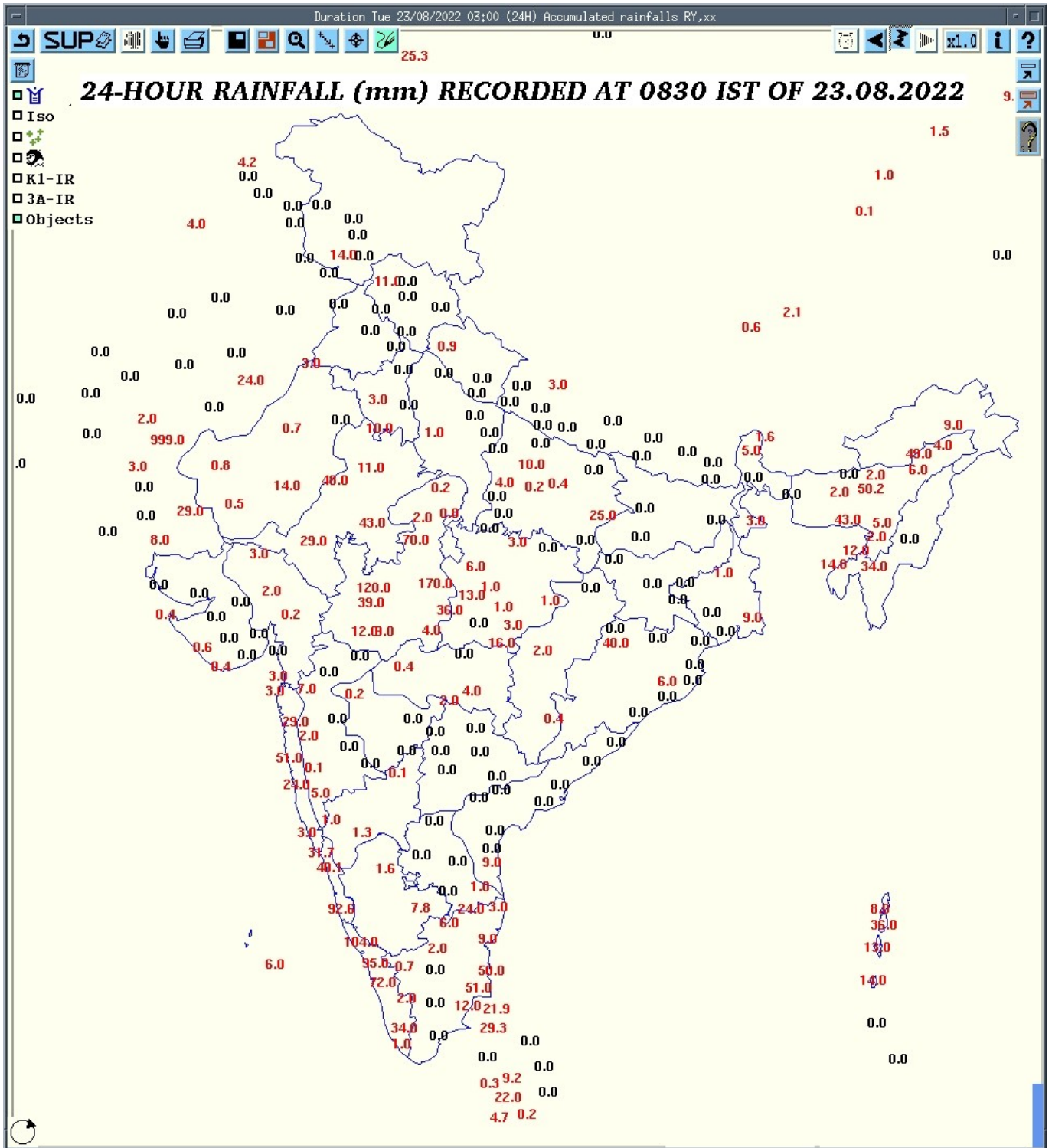
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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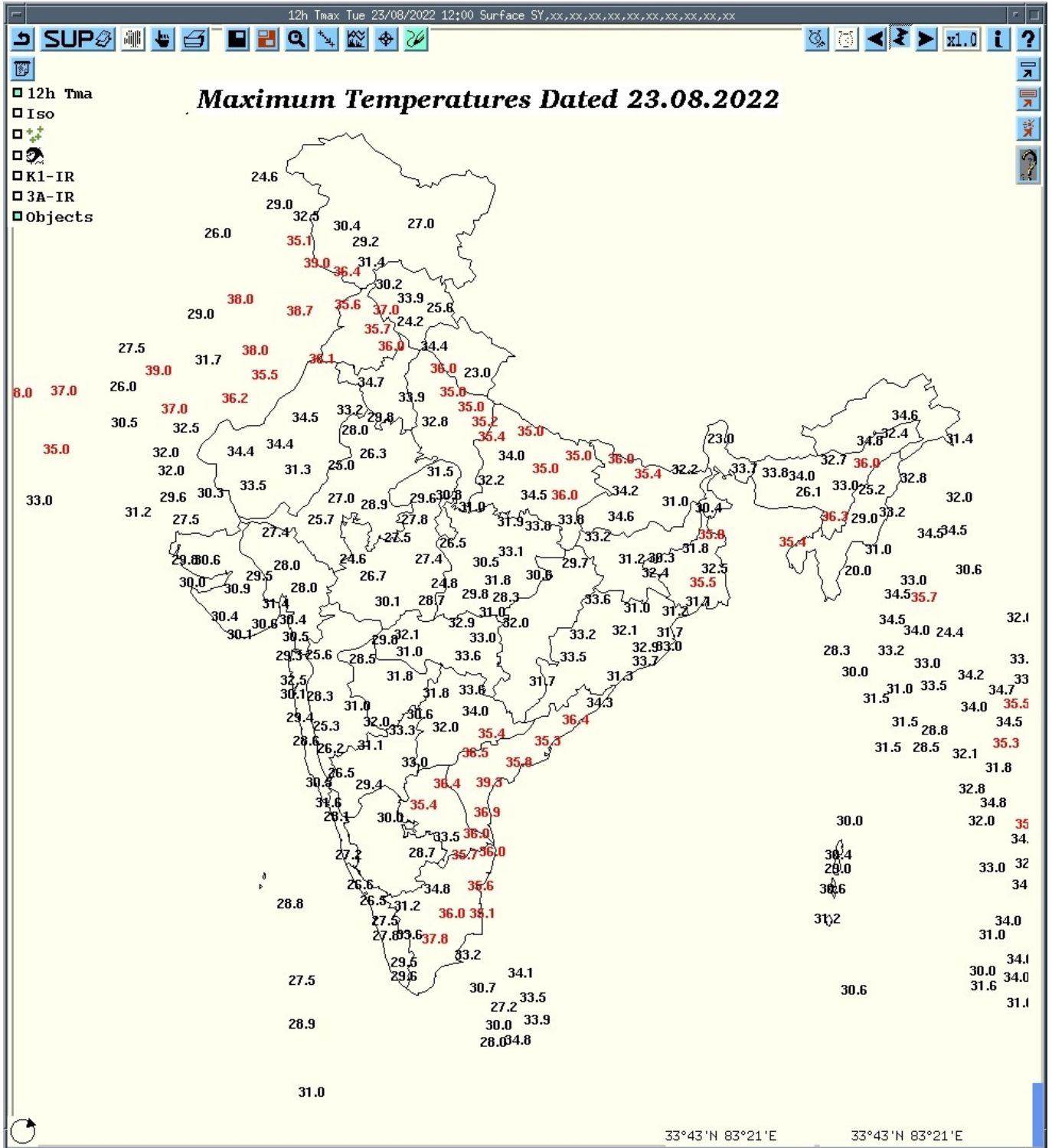
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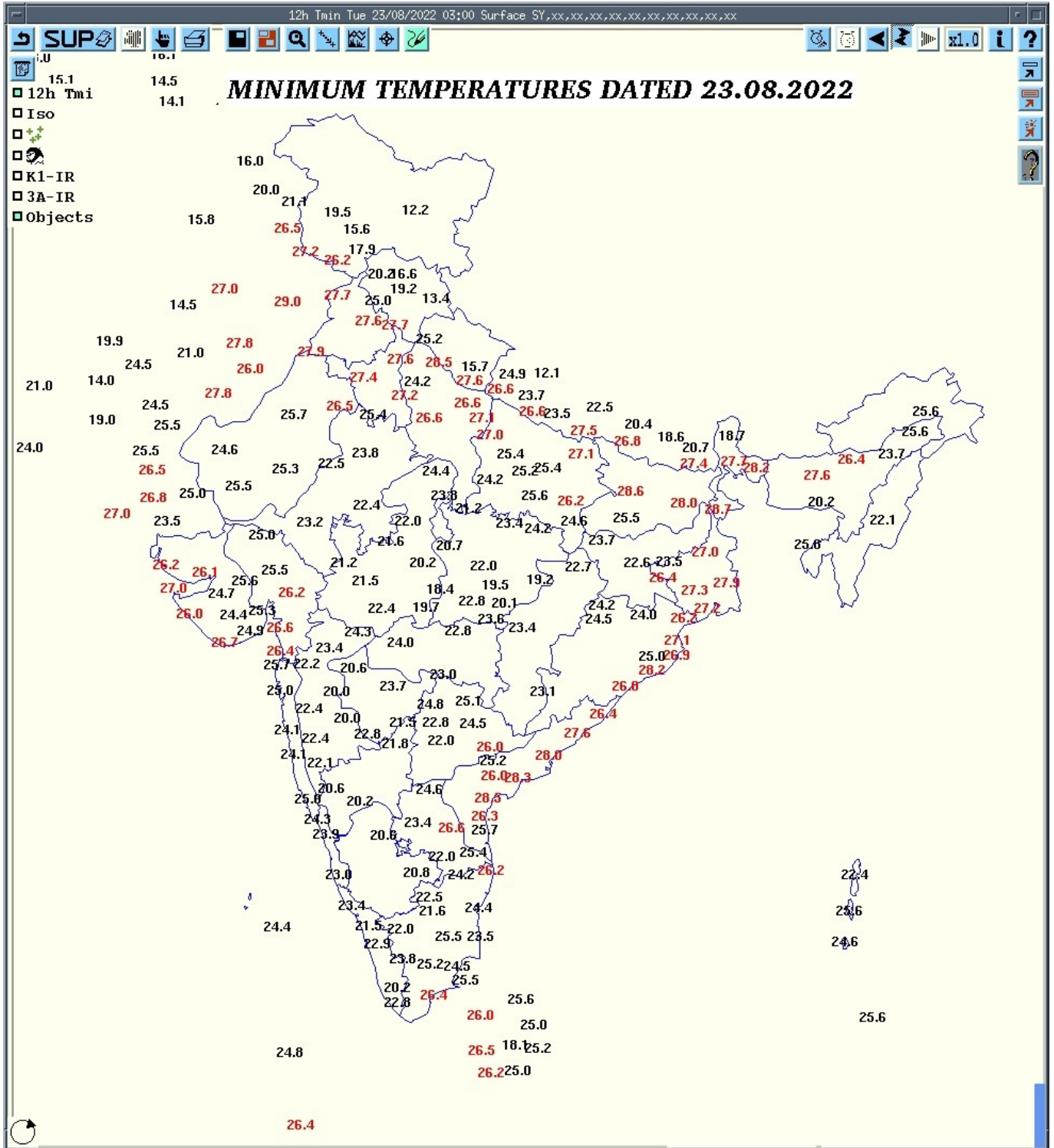
Fig. 2: Maximum Temperature during past 24 hours



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Fig. 3: Minimum Temperature during past 24 hours



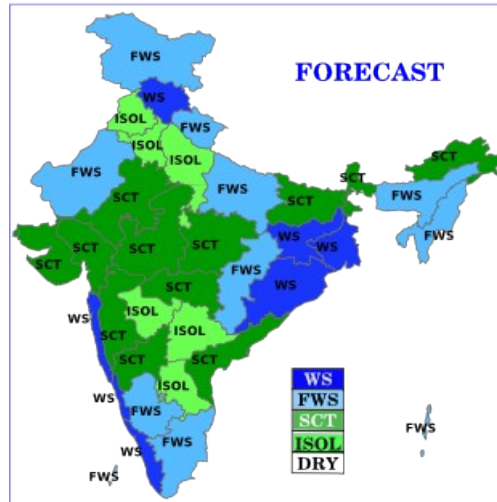
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Wednesday 24 August 2022



24 Aug (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Odisha and Kerala & Mahe and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, West Rajasthan, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, West Rajasthan, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka, 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 Gujarat coast and adjoining northeast Arabian Sea, Karnataka and Kerala coasts, Lakshadweep area, Maldives and adjoining Comorin area, southeast and adjoining 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, southwest Bay of Bengal off south Sri Lanka coast, Comorin area, Gulf of Mannar. Fishermen are advised not to venture into these seas.

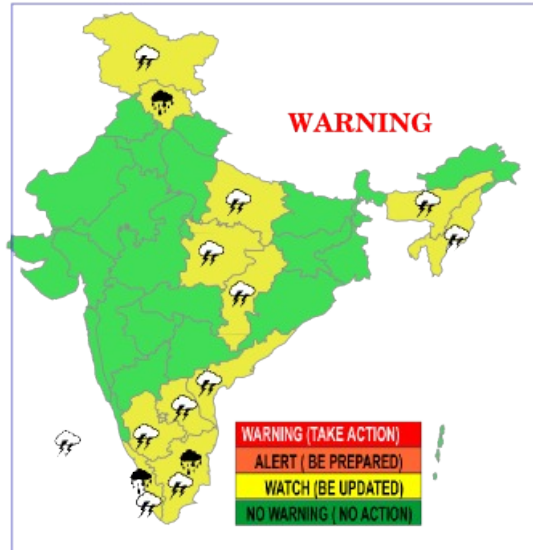
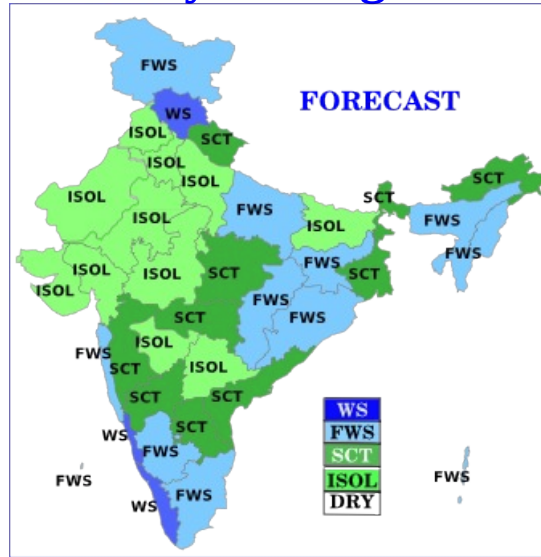
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Thursday 25 August 2022



25 Aug (Day 2): ♦ **Heavy rainfall** at isolated places very likely over Himachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

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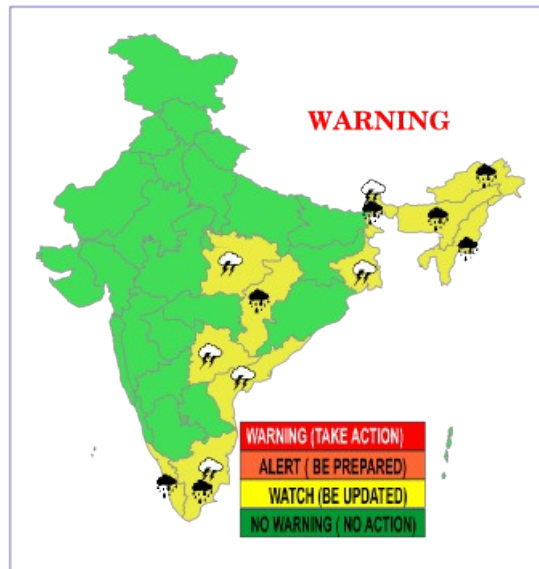
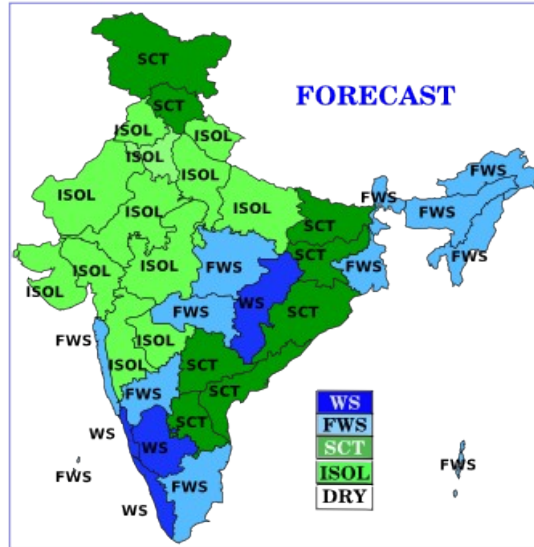
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Friday 26 August 2022



26 Aug (Day 3): ♦ Heavy rainfall at isolated places likely over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Madhya Pradesh, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

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

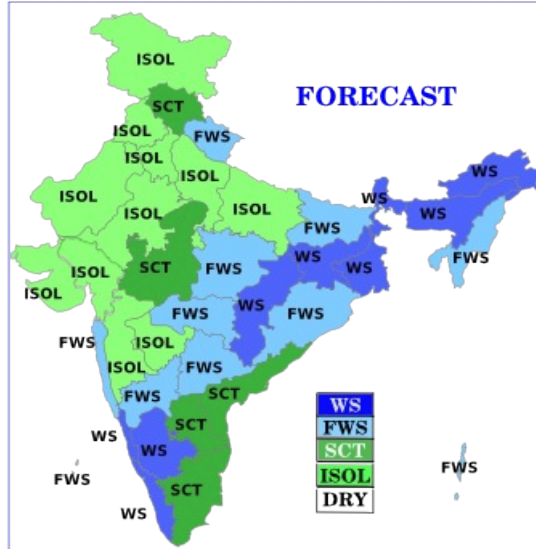
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Saturday 27 August 2022



27 Aug (Day 4): ♦ **Heavy rainfall** at isolated places likely over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Tamil Nadu, Puducherry & Karaikal.

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

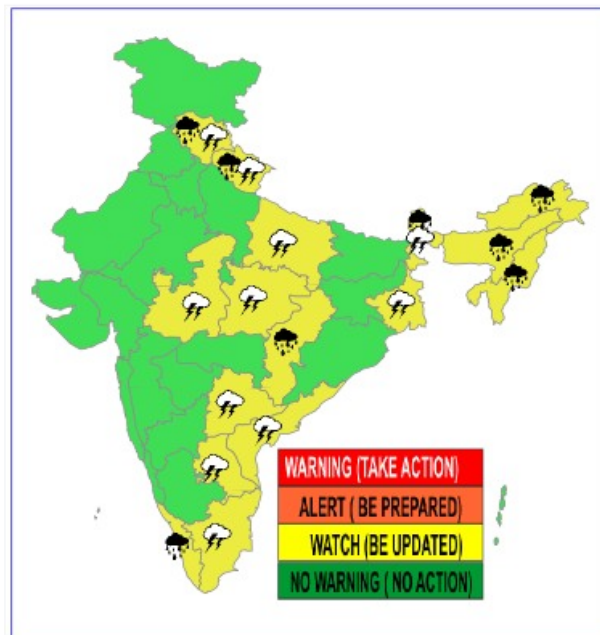
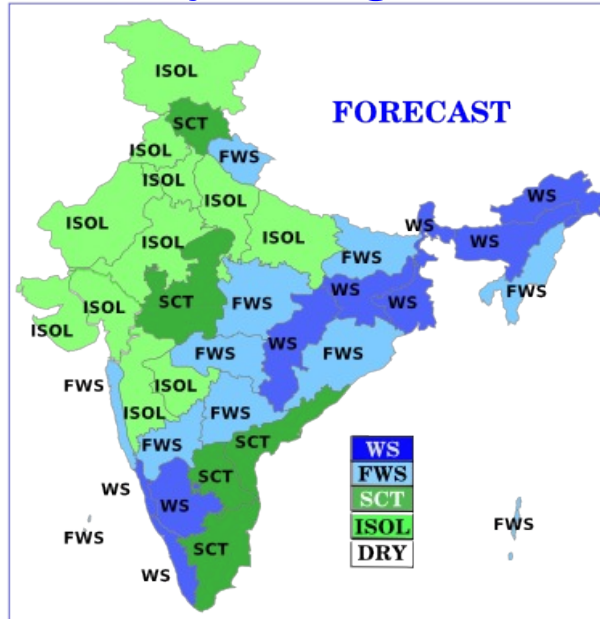
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Sunday 28 August 2022



28 Aug (Day 5): ♦ Heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely southwest Bay of Bengal, off south Sri Lanka coast, Comorin area. **Squally winds** of (45-55 kmph gusting to 65 kmph) likely over west-central and adjoining southwest 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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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 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 Strom: Wind speed > 220 kmph (> 119 knots)

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(Created by the Meteorology Dept.)