



Wednesday 10 August 2022

MORNING

Time of Issue: 0830 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The monsoon trough is active and lies south of its normal position. It will continue to remain so during next 3 days.
- ◆ The **Depression** over interior Odisha and adjoining Chhattisgarh moved west-northwestwards during last 06 hours, and weakened into a **Well Marked Low Pressure Area** at 0530 hours IST of today, the 10th August, 2022, over Chhattisgarh and adjoining east Madhya Pradesh. It is likely to move west-northwestwards and gradually weaken into a low pressure area during next 24 hours.
- ◆ An eastwest shear zone runs roughly along 20°N over North Peninsular India in middle tropospheric levels. It is likely to persist during next 3-4 days.
- ◆ Under the influence of above systems:
 - o Fairly widespread/widespread rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Gangetic West Bengal on 10th, 11th, 13th & 14th; Jharkhand on 10th, 11th, 13th & 14th; Odisha during 10th-14th; Assam & Meghalaya on 13th & 14th and over Nagaland, Manipur, Mizoram & Tripura on 10th, 13th & 14th August, 2022.
 - ◆ **Isolated very heavy rainfall also likely over Odisha on 10th, 13th & 14th; Gangetic West Bengal & Jharkhand on 14th August, 2022.**
 - o Fairly widespread/widespread rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Madhya Pradesh, Chhattisgarh & Konkan & Goa during 10th-14th; Vidarbha and ghat areas of Madhya Maharashtra during 10th-11th; Gujarat State during 10th-12th August, 2022.
 - ◆ **Isolated very heavy rainfall likely over West Madhya Pradesh during 10th-12th; East Madhya Pradesh and Saurashtra & Kutch during 10th-11th & on 14th; Chhattisgarh and Konkan & Goa on 10th & 14th; Vidarbha and ghat areas of Madhya Maharashtra on 10th August, 2022.**
 - ◆ **Isolated/scattered extremely heavy rainfall also likely over Saurashtra & Kutch on 10th August, 2022.**
 - o Fairly widespread/widespread rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Coastal Andhra Pradesh & Yanam on 13th & 14th; Coastal Karnataka during 10th-12th and over Interior Karnataka and Kerala & Mahe during 10th-11th August, 2022.
 - o Fairly widespread/widespread rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over southeast Rajasthan during 10th-14th; West Rajasthan during 12th-14th; Himachal Pradesh on 10th & 14th; Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh on 14th; Uttarakhand on 10th & 14th August, 2022.
 - ◆ **Isolated very heavy rainfall also likely over Uttarakhand on 10th 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 Odisha, Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka; at many places over Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Jharkhand, Uttarakhand, West Madhya Pradesh, Gujarat State; at a few places over Assam & Meghalaya, Bihar, Himachal Pradesh, West Rajasthan, East Madhya Pradesh, Rayalaseema and Lakshadweep and at isolated places over Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Jammu & Kashmir, East Rajasthan and Tamil Nadu, Puducherry & Karaikal.

◆ **Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall occurred at isolated places over Odisha, Chhattisgarh and Madhya Maharashtra.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday) (2 cm or more):** Mahabaleshwar and Angul -10 each; Rajananadgaon and Sambalpur -8 each; Raipur -7; Porbandar -5; Matheran, Raisen, Betul, Keongjharhar and Hirakud -4 each; Diu, Baramati, Gondia, Durg and Ratnagiri -4 each; Nizamabad -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, Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal, Uttar Pradesh, Rajasthan, Madhya Pradesh, Gujarat State, Vidarbha, Assam & Meghalaya, Chhattisgarh and Odisha.

◆ **Minimum Temperature Departures (as on 09-08-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Uttar Pradesh; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Gujarat Region, Bihar, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and at isolated places over Saurashtra & Kutch, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at isolated places over Telangana and Odisha and near normal over rest of the country. Yesterday, the lowest minimum temperature of 19.8°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 09-08-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand; at many places over Assam & Meghalaya and Punjab and at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and East Madhya Pradesh; at a few places over Haryana, Chandigarh & Delhi and West Madhya Pradesh and at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Odisha and Telangana; at a few places over Vidarbha and North Interior Karnataka and at isolated places over Madhya Maharashtra and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at many places over Marathwada and Jharkhand and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.7°C was reported at Cooch Behar (Sub-Himalayan West Bengal & Sikkim).

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Depression** over interior Odisha moved west-northwestwards with a speed about 18 kmph during last 06 hours, and lay centered at 2330 hours IST of 9th August, 2022 over interior Odisha and adjoining Chhattisgarh near Lat. 21.5°N and Long. 83.3°E, about 70 Km west of Sambhalpur (Odisha) and 170 km east-northeast of Raipur (Chhattisgarh). Then, It weakened into a **Well Marked Low Pressure Area** at 0530 hours IST of today, the 10th August, 2022, over Chhattisgarh and adjoining east Madhya Pradesh. It is likely to move west-northwestwards and gradually weaken into a low pressure area during next 24 hours.
- ◆ The **monsoon trough** at mean sea level now passes through Rajkot, Ahmedabad, Bhopal, centre of **Well Marked Low Pressure Area**, Jharsuguda, Chandbali and thence southeastwards to north Andaman Sea and extends upto 1.5 km above mean sea level.
- ◆ The east-west shear zone roughly along 20° N over North Peninsular India between 3.1 km & 7.6 km above mean sea level persists.
- ◆ The off-shore trough from Gujarat coast to Kerala coast at mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 15th 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 15th August - 17th August, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity with heavy rainfall likely over East India, Coastal Andhra Pradesh & Telangana.
- ◆ Scattered/fairly widespread light/moderate rainfall activity likely over Central, Northwest, West & South Peninsular India(except Tamil Nadu and Kerala).

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Weather Warning during next 5 days *

10 Aug (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Saurashtra & Kutch; **heavy to very heavy rainfall** at isolated places over Odisha, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, ghat areas of Madhya Maharashtra, Konkan & Goa and Gujarat Region and **heavy rainfall** at isolated places over Himachal Pradesh, East Rajasthan, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Jharkhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral Arabian Sea off Somalia coast & Gulf of Aden. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea and adjoining south Arabian Sea. **Squally wind** speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep, Palk Strait, Comorin area and off Sri Lanka coast. Fishermen are advised not to venture into these seas.

11 Aug (Day 2): ♦ Heavy to very heavy rainfall at isolated places likely over Madhya Pradesh and Gujarat state and **heavy rainfall** at isolated places over Himachal Pradesh, Gangetic West Bengal, Odisha, Jharkhand, East Rajasthan, Vidarbha, Chhattisgarh, ghat areas of Madhya Maharashtra, Konkan & Goa, Karnataka and Kerala & Mahe.

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

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral & eastcentral Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over northeast & adjoining northwest Arabian Sea, central Arabian Sea and adjoining southwest & southeast Arabian Sea, along & off Karnataka, Konkan & Goa, Maharashtra & Gujarat coasts. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep, Palk Strait, Comorin area and off Kerala coast & east Sri Lanka coast. Fishermen are advised not to venture into these seas.

12 Aug (Day 3): ♦ Heavy to very heavy rainfall at isolated places likely over West Madhya Pradesh and **heavy rainfall** at isolated places over Chhattisgarh, Odisha, Gujarat State, Coastal Karnataka, Rajasthan, East Madhya Pradesh and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places over West Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral & eastcentral Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Arabian Sea, central Arabian Sea & adjoining south Arabian Sea and along & off Maharashtra & Gujarat coasts. Fishermen are advised not to venture into these seas.

13 Aug (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Odisha and **heavy rainfall** at isolated places over Chhattisgarh, Rajasthan, Madhya Pradesh, Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Coastal Andhra Pradesh & Yanam, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places over Rajasthan, Marathwada and Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Arabian Sea, central & adjoining southwest Arabian Sea and along & off Maharashtra & Gujarat coasts. Fishermen are advised not to venture into these seas.

14 Aug (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Odisha, Gangetic West Bengal, Jharkhand, East Madhya Pradesh, Chhattisgarh, Saurashtra & Kutch and Konkan & Goa and **heavy rainfall** at isolated places over Rajasthan, West Madhya Pradesh, Gujarat Region, Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Himachal Pradesh and West Uttar Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places over Rajasthan, Marathwada and Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Arabian Sea, central & adjoining southwest Arabian Sea and along & off Maharashtra & Gujarat coasts. 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)
10-August-2022

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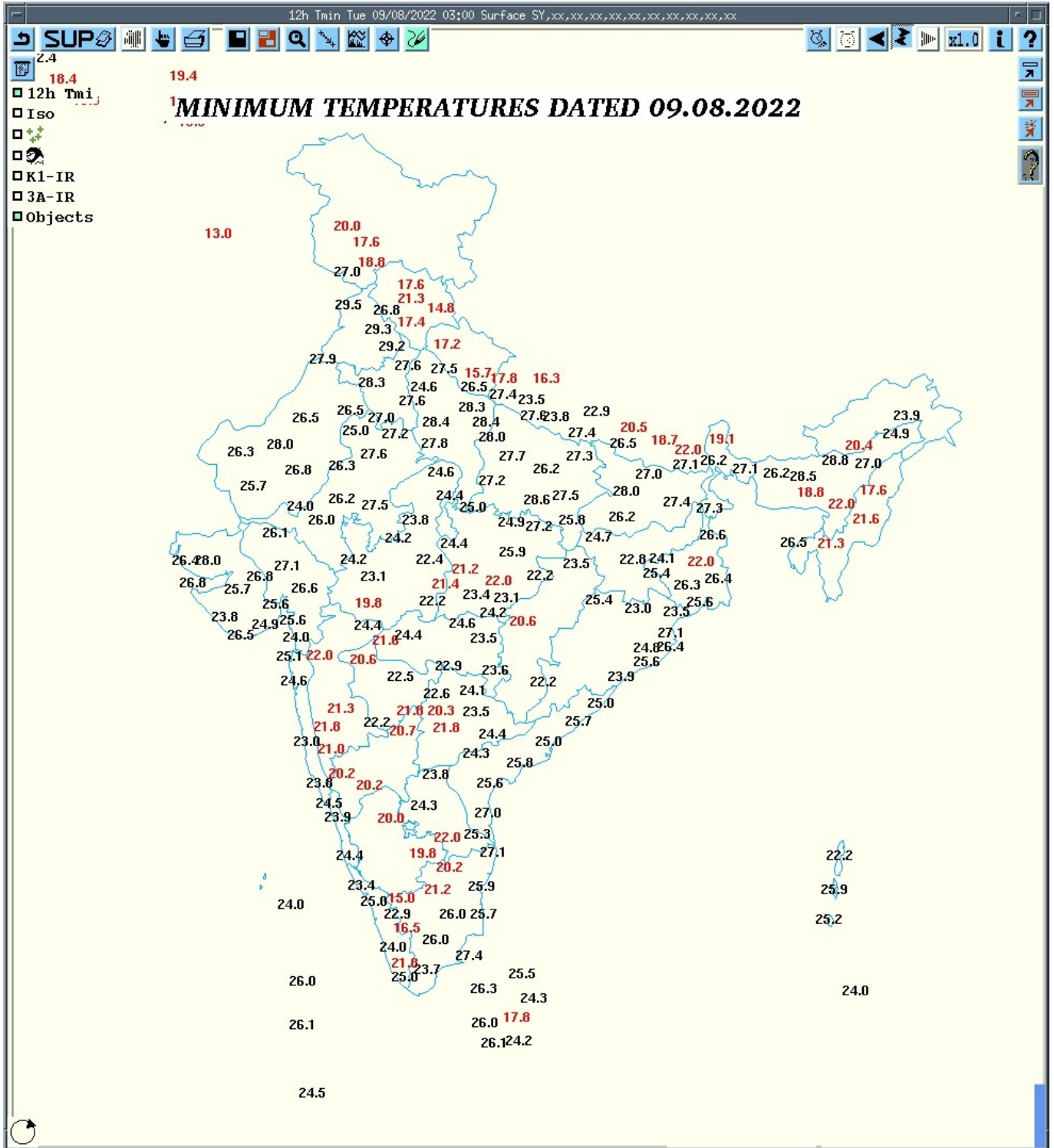
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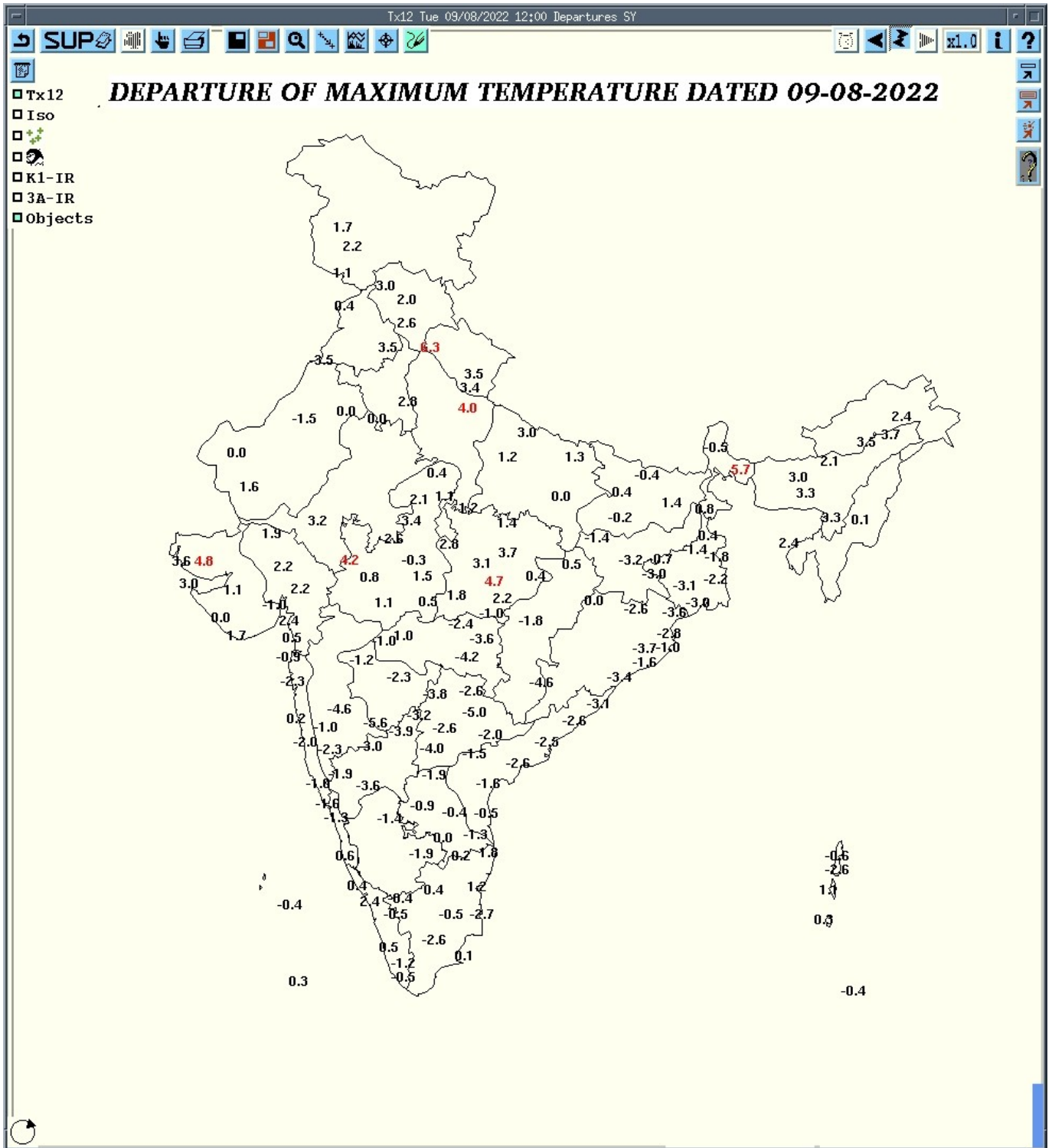
Fig. 3: Minimum Temperature during past 24 hours



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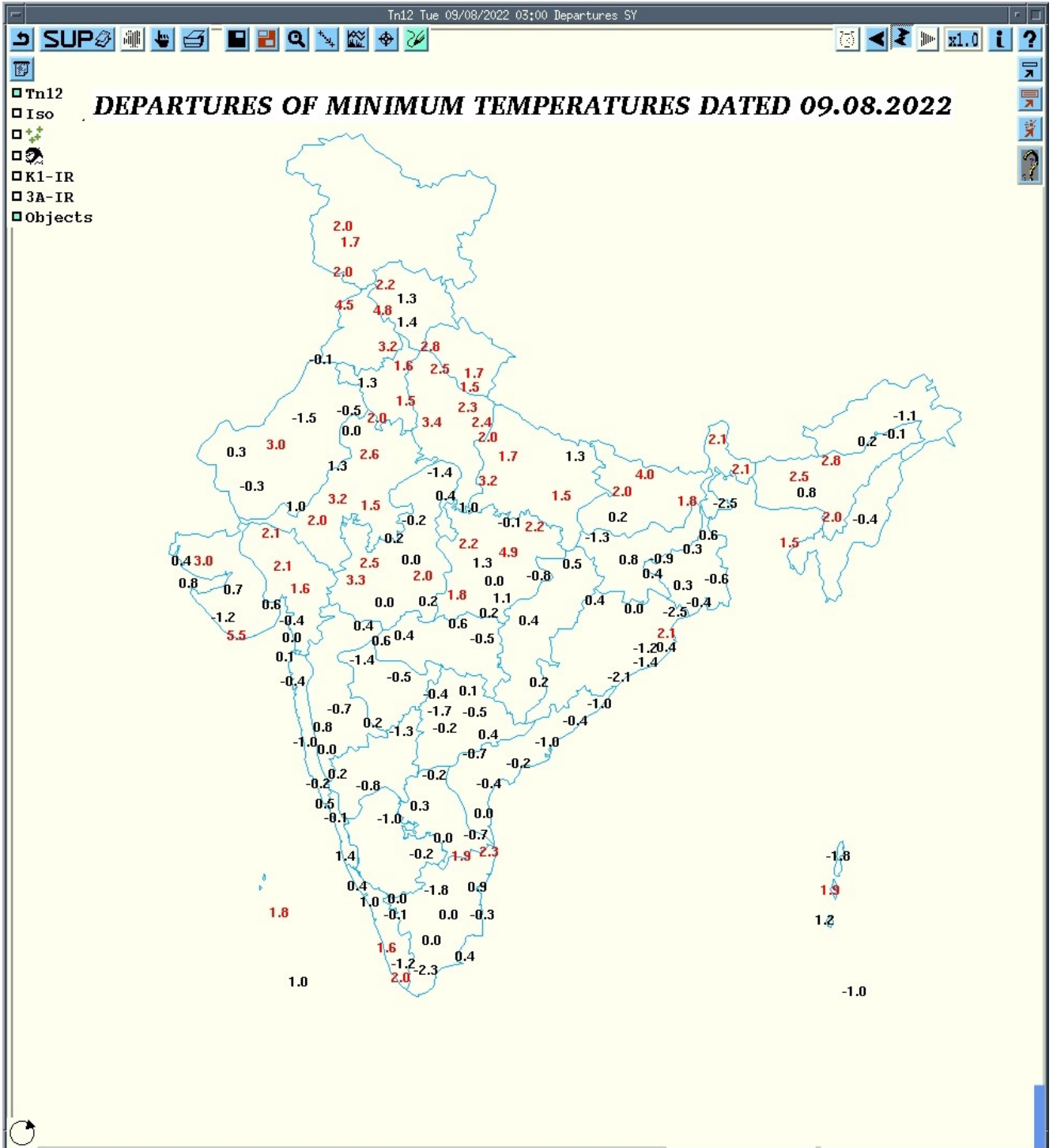
Fig. 4 : Departure from Normal of Maximum Temperatures



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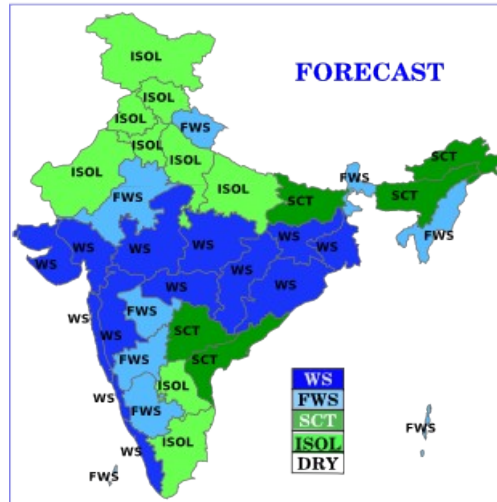


Fig. 5 : Departure from Normal of Minimum Temperatures



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Wednesday 10 August 2022



10 Aug (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Saurashtra & Kutch; **heavy to very heavy rainfall** at isolated places over Odisha, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, ghat areas of Madhya Maharashtra, Konkan & Goa and Gujarat Region and **heavy rainfall** at isolated places over Himachal Pradesh, East Rajasthan, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Jharkhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral Arabian Sea off Somalia coast & Gulf of Aden. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea and adjoining south Arabian Sea. **Squally wind** speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep, Palk Strait, Comorin area and off Sri Lanka coast. Fishermen are advised not to venture into these seas.

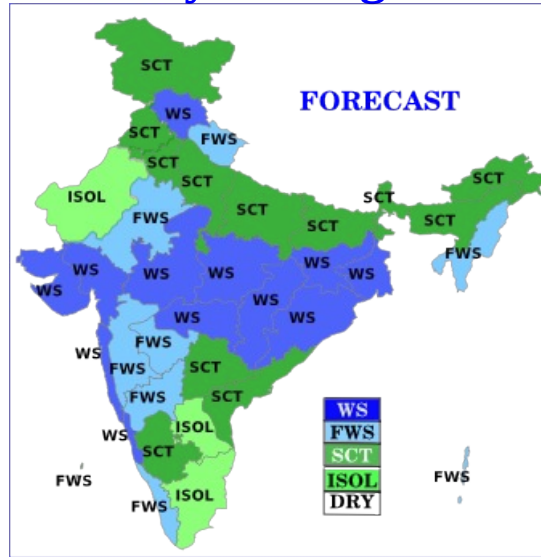
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Thursday 11 August 2022



11 Aug (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places likely over Madhya Pradesh and Gujarat state and **heavy rainfall** at isolated places over Himachal Pradesh, Gangetic West Bengal, Odisha, Jharkhand, East Rajasthan, Vidarbha, Chhattisgarh, ghat areas of Madhya Maharashtra, Konkan & Goa, Karnataka and Kerala & Mahe.

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

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral & eastcentral Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over northeast & adjoining northwest Arabian Sea, central Arabian Sea and adjoining southwest & southeast Arabian Sea, along & off Karnataka, Konkan & Goa, Maharashtra & Gujarat coasts. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep, Palk Strait, Comorin area and off Kerala coast & east Sri Lanka coast. Fishermen are advised not to venture into these seas.

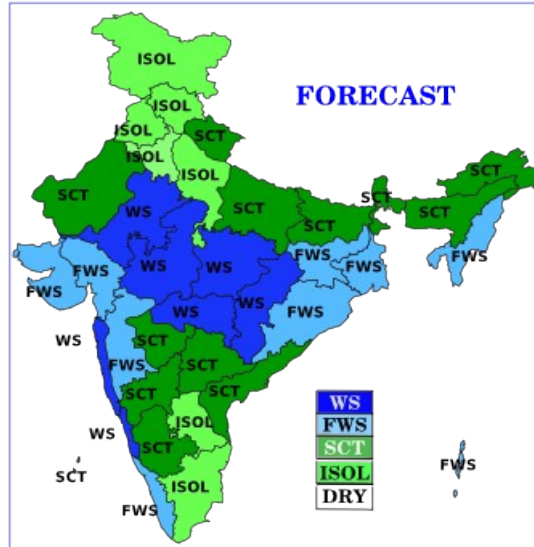
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Friday 12 August 2022



12 Aug (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places likely over West Madhya Pradesh and **heavy rainfall** at isolated places over Chhattisgarh, Odisha, Gujarat State, Coastal Karnataka, Rajasthan, East Madhya Pradesh and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places over West Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral & eastcentral Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Arabian Sea, central Arabian Sea & adjoining south Arabian Sea and along & off Maharashtra & Gujarat coasts. Fishermen are advised not to venture into these seas.

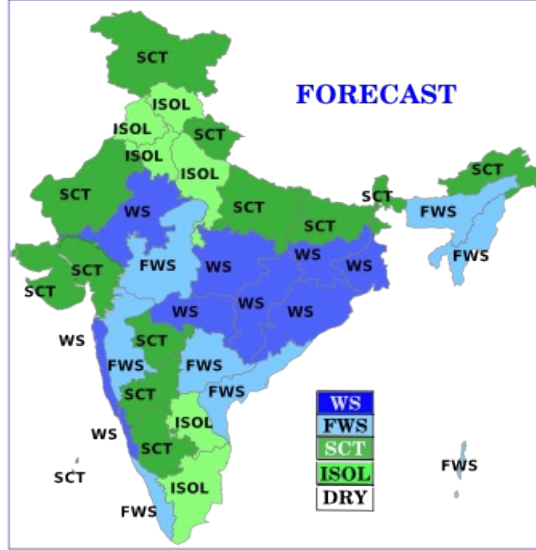
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Saturday 13 August 2022



13 Aug (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over Odisha and **heavy rainfall** at isolated places over Chhattisgarh, Rajasthan, Madhya Pradesh, Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Coastal Andhra Pradesh & Yanam, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places over Rajasthan, Marathwada and Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Arabian Sea, central & adjoining southwest Arabian Sea and along & off Maharashtra & Gujarat coasts. Fishermen are advised not to venture into these seas.

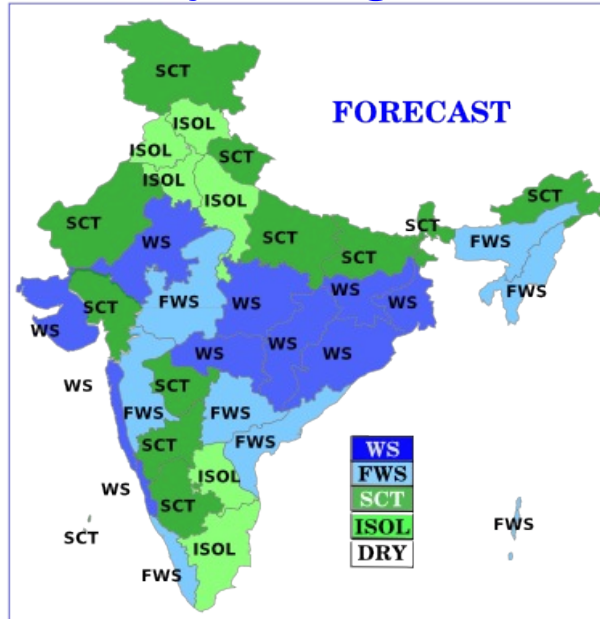
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Sunday 14 August 2022



14 Aug (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Odisha, Gangetic West Bengal, Jharkhand, East Madhya Pradesh, Chhattisgarh, Saurashtra & Kutch and Konkan & Goa and **heavy rainfall** at isolated places over Rajasthan, West Madhya Pradesh, Gujarat Region, Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Himachal Pradesh and West Uttar Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places over Rajasthan, Marathwada and Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest & adjoining westcentral Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Arabian Sea, central & adjoining southwest Arabian Sea and along & off Maharashtra & Gujarat coasts. Fishermen are advised not to venture into these seas.

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(Circle as the Nation since 1975)

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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