

Friday 12 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** over lies over Northeast Arabian Sea and adjoining coastal areas of Saurashtra & Kutch and southeast Pakistan. It is likely to move west-northwestwards away from the Indian coast and intensify into a **depression** during next 12 hours over Northeast Arabian Sea & neighbourhood.
- The monsoon trough is active and lies south of its normal position. Monsoon trough is likely to be active and oscillate around its normal position during next 5 days.
- The east-west shear zone now runs roughly along 23°N over Central India in middle tropospheric levels. It is likely to persist during next 2 days.
- The off-shore trough runs from centre of **Well Marked Low Pressure Area** over Northeast Arabian Sea and adjoining coastal areas of Saurashtra & Kutch and southeast Pakistan to Kerala coast at mean sea level.
- A cyclonic circulation lies over Western parts of Gangetic West Bengal & neighbourhood in lower & middle tropospheric level.
- A Low Pressure Area is likely to form over North Bay of Bengal around 13th August, 2022. It is likely to become more marked during subsequent 24 hours and move west-northwestwards thereafter.
- Under the influence of above systems:
 - o Fairly widespread/Widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over West MP on 12th & 14th; East MP on 12th; Chhattisgarh on 13th, 15th & 16th; Gujarat State on 12th, 13th, 15th & 16th; Konkan & Goa and Madhya Maharashtra during 12th-16th August, 2022.
 - Isolated very heavy rainfall likely over West Madhya Pradesh on 15th & 16th; East Madhya Pradesh and Vidarbha during 14th-16th August, 2022.
 - o Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Gangetic West Bengal on 14th; Jharkhand on 13th & 14th; Odisha on 12th; Arunachal Pradesh on 13th & 14th; Assam & Meghalaya during 13th -16th and over Nagaland, Manipur, Mizoram & Tripura during 12th-16th August, 2022.
 - Isolated **very heavy rainfall** also likely over Odisha on 13th & 14th August, 2022.
 - o Scattered/Fairly widespread rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over East Rajasthan, Himachal Pradesh and Uttarakhand during 12th-16th; West Rajasthan on 12th & 13th and Jammu & Kashmir during 14th-16th August, 2022.
 - Isolated **very heavy rainfall** also likely over East Rajasthan on 15th & 16th 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 Himachal Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Gujarat State, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka; at many places over East Rajasthan, West Madhya Pradesh, Odisha; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Vidarbha, Bihar, North Interior Karnataka, Kerala & Mahe and at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Telangana and Tamil Nadu, Puducherry & Karaikal.
- ◆ **Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall at isolated places over Madhya Maharashtra, Jharkhand and Saurashtra & Kutch.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(2 cm or more):** Mahabaleshwar-8; Jamshedpur, Porbandar-7 each; Ranchi, Jammu and Hirakud-5 each; Digha and Katra-4; Guna, Batote and Malanjkhanda-3 each; Manali, Bhopal, Jabalpur, Burdwan, Bagati, Matheran, Cannur-2 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Saurashtra & Kutch, West Madhya Pradesh, Jharkhand and Odisha.
- ◆ **Minimum Temperature Departures (as on 11-08-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, Rajasthan, Saurashtra & Kutch, Kerala & Mahe and at isolated places over Uttar Pradesh, Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim. They were below normal (-1.6°C to -3.0°C) at a few places over Tamilnadu, Puducherry & Karaikal and Gangetic West Bengal; at isolated places over Odisha. Yesterday, the lowest minimum temperature of 19.0°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 11-08-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Kerala & Mahe; at a few places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and at isolated places over Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (5.1°C or less) at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at many places over East Rajasthan, East Madhya Pradesh, Jharkhand, Odisha; at a few places over Haryana, Chandigarh & Delhi, Vidarbha, Gangetic West Bengal; at isolated places over West Madhya Pradesh appreciably below normal (-3.1°C to -5.0°C) at many places over Himachal Pradesh; below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh; at a few places over East Uttar Pradesh, West Rajasthan; at isolated places over Gujarat Region and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.3°C was reported at Cooch Behar (Sub-Himalayan West Bengal & Sikkim).

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Well Marked Low Pressure Area** over Saurashtra & adjoining Northeast Arabian Sea now lies over Northeast Arabian Sea and adjoining coastal areas of Saurashtra & Kutch and southeast Pakistan and the associated cyclonic circulation extends upto 7.6 km above mean sea level. It is likely to move west-northwestwards and intensify into a depression during next 12 hours over Northeast Arabian Sea & neighbourhood.
- ◆ The monsoon trough at mean sea level now passes through centre of **Well Marked Low Pressure Area** over Northeast Arabian Sea and adjoining coastal areas of Saurashtra & Kutch and southeast Pakistan, Deesa, Guna, Satna, Daltonganj, Balasore and thence Southeastwards to North Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The east-west shear zone roughly along 23°N across Central India between 3.1 km & 5.8 km above mean sea level persists.
- ◆ The off-shore trough at mean sea level from **Well Marked Low Pressure Area** over Northeast Arabian Sea and adjoining coastal areas of Saurashtra & Kutch and southeast Pakistan to Kerala coast persists.
- ◆ The cyclonic circulation over western parts of Gangetic West Bengal & neighbourhood between 1.5 km & 7.6 km above mean sea level persists.
- ◆ The Western Disturbance as a trough in westerlies with its axis at 5.8 km above mean sea level roughly along Long.62°E to the north of 30°N persists.
- ◆ A **Low Pressure Area** is likely to form over North Bay of Bengal around 13th August, 2022. It is likely to become more marked during subsequent 24 hours and move west-northwestwards thereafter.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th 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 17th August - 19th 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).

Weather Warning during next 5 days *

12 Aug (Day 1): ♦ Heavy rainfall very likely at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Interior Karnataka and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Gangetic West Bengal, south Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) northeast Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining southwest and southeast Arabian Sea, along and off Maharashtra and Karnataka coasts; **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over north Bay of Bengal and adjoining central Bay of Bengal, off coastal Andhra Pradesh, Odisha, West Bengal. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over east-central and adjoining northeast Arabian Sea, west-central and adjoining southwest Arabian Sea, coastal Maharashtra, Gujarat, Goa, north Karnataka; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over central Arabian Sea and adjoining northwest and northeast Arabian Sea, adjoining southwest and southeast Arabian Sea; Fishermen are advised not to venture into these seas.

13 Aug (Day 2): ♦ Heavy to very heavy rainfall at isolated places likely over Odisha; **heavy rainfall** at isolated places over Rajasthan, Chhattisgarh, Jharkhand, Sub - Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) northeast Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining southwest and southeast Arabian Sea, along and off Maharashtra and Karnataka coasts; **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over north Bay of Bengal and adjoining central Bay of Bengal, along and off north coastal Andhra Pradesh, off coastal Odisha, West Bengal. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over west-central and adjoining east-central Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over central Arabian Sea and adjoining northwest and northeast Arabian Sea, adjoining southwest and southeast Arabian Sea, west-central Bay of Bengal; Fishermen are advised not to venture into these seas.

14 Aug (Day 3): ♦ Heavy to very heavy rainfall at isolated places likely over East Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Rajasthan West Madhya Pradesh, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Marathwada and Telangana.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) over northwest Bay of Bengal, along and off Odisha, West Bengal coasts; **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over north east Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining south west and south east Arabian Sea, along and off Maharashtra and Karnataka coasts, north Bay of Bengal and adjoining central Bay of Bengal. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over central parts of west-central Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central and adjoining northeast Arabian Sea, west-central and adjoining east-central Bay of Bengal, northeast and adjoining northwest Bay of Bengal; Fishermen are advised not to venture into these seas.

15 Aug (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over East Rajasthan, Madhya Pradesh and Vidarbha and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim and Marathwada.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) over northwest Bay of Bengal, along and off Odisha, West Bengal coasts; **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over northeast Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining southwest and southeast Arabian Sea, along and off Maharashtra and Karnataka coasts, north Bay of Bengal and adjoining central Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, northwest and adjoining west-central Bay of Bengal, along and off coastal Andhra Pradesh; Fishermen are advised not to venture into these seas.

16 Aug (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over East Rajasthan, Madhya Pradesh and Vidarbha and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim and Marathwada.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) over northwest Bay of Bengal, along and off Odisha, West Bengal coasts; **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over northeast Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining southwest and southeast Arabian Sea, along and off Maharashtra and Karnataka coasts, north Bay of Bengal and adjoining central Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, northwest and adjoining west-central Bay of Bengal, along and off coastal Andhra Pradesh; 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)
12-August-2022

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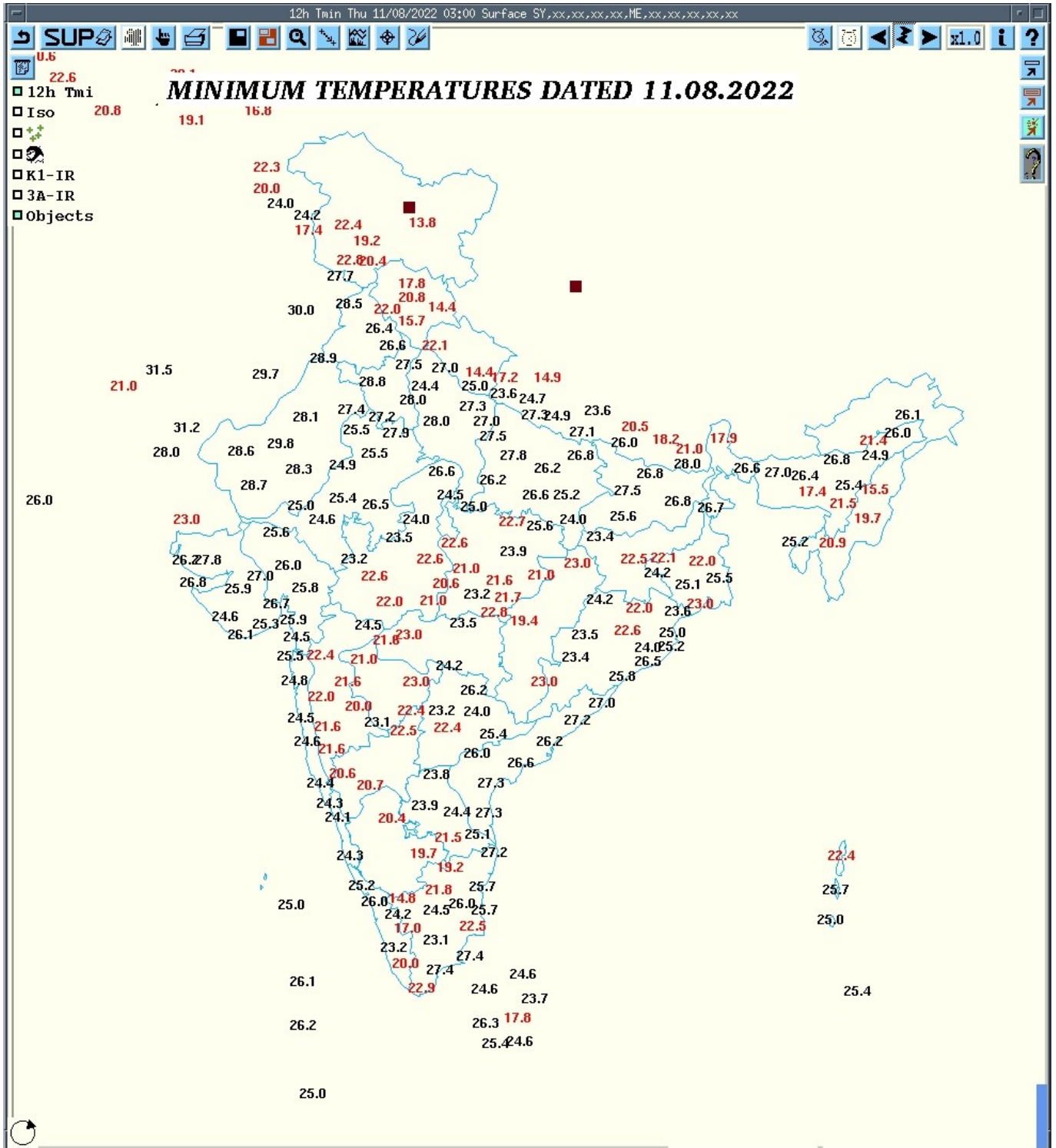
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Fig. 3: Minimum Temperature during past 24 hours

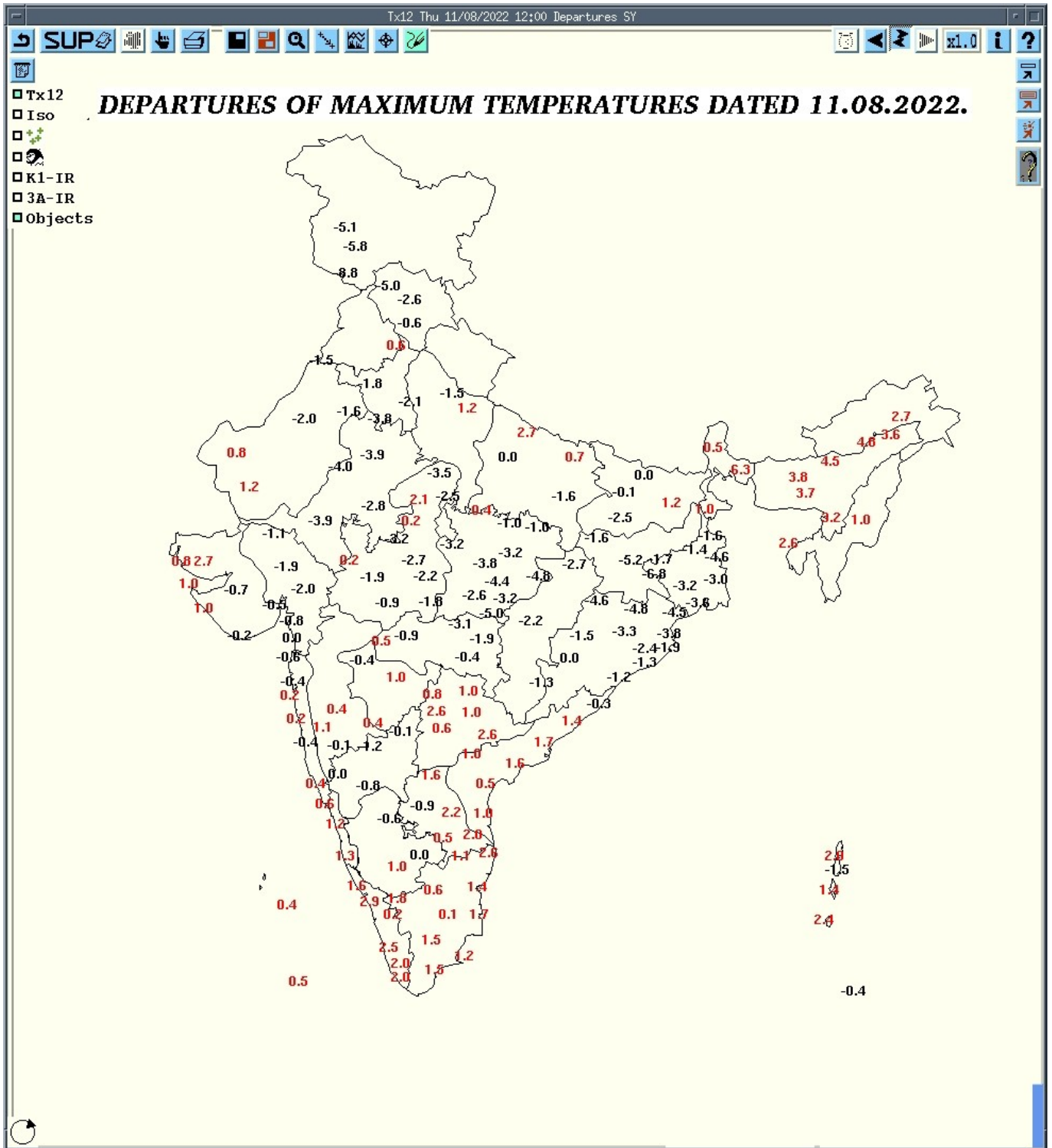


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(Created by the MetInfo team 10/2022)

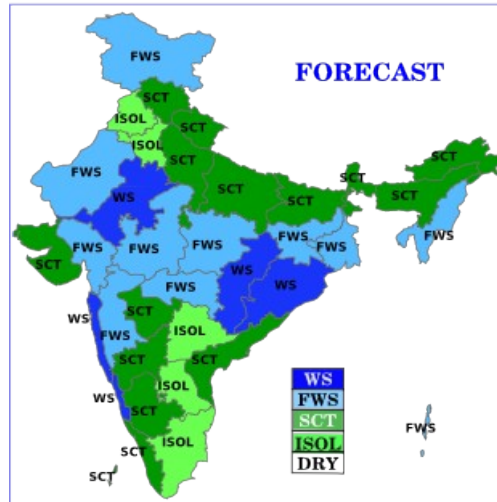


Fig. 4 : Departure from Normal of Maximum Temperatures



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Friday 12 August 2022



12 Aug (Day 1): ♦ Heavy rainfall very likely at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Interior Karnataka and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Gangetic West Bengal, south Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) northeast Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining southwest and southeast Arabian Sea, along and off Maharashtra and Karnataka coasts; **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over north Bay of Bengal and adjoining central Bay of Bengal, off coastal Andhra Pradesh, Odisha, West Bengal. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over east-central and adjoining northeast Arabian Sea, west-central and adjoining southwest Arabian Sea, coastal Maharashtra, Gujarat, Goa, north Karnataka; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over central Arabian Sea and adjoining northwest and northeast Arabian Sea, adjoining southwest and southeast Arabian Sea; Fishermen are advised not to venture into these seas.

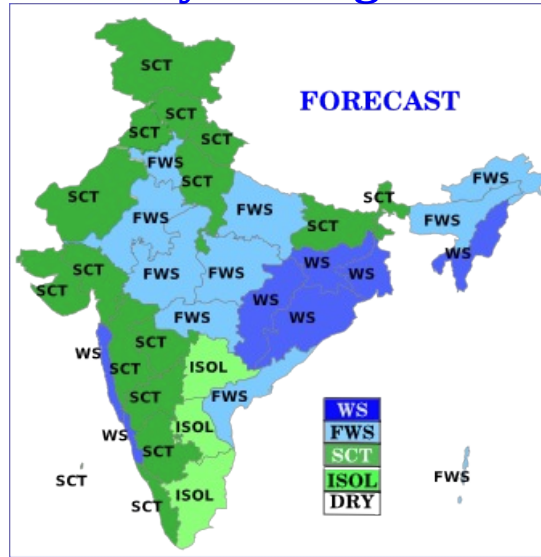
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Saturday 13 August 2022



13 Aug (Day 2): ♦ Heavy to very heavy rainfall at isolated places likely over Odisha; heavy rainfall at isolated places over Rajasthan, Chhattisgarh, Jharkhand, Sub - Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam.

♦ Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Coastal Andhra Pradesh & Yanam and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar and Coastal Andhra Pradesh & Yanam.

♦ Squally weather (wind speed 45-55 kmph gusting to 65 kmph) northeast Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining southwest and southeast Arabian Sea, along and off Maharashtra and Karnataka coasts; Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over north Bay of Bengal and adjoining central Bay of Bengal, along and off north coastal Andhra Pradesh, off coastal Odisha, West Bengal. Squally winds of 50-60 kmph gusting to 70 kmph likely over west-central and adjoining east-central Arabian Sea; Squally winds of 45-55 kmph gusting to 65 kmph likely over central Arabian Sea and adjoining northwest and northeast Arabian Sea, adjoining southwest and southeast Arabian Sea, west-central Bay of Bengal; Fishermen are advised not to venture into these seas.

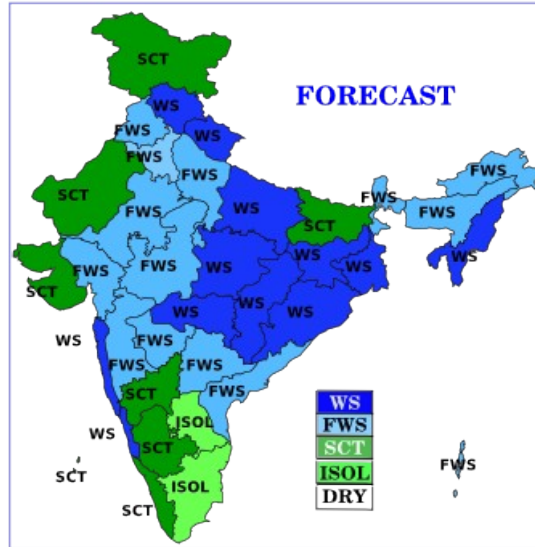
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Sunday 14 August 2022



14 Aug (Day 3): ♦Heavy to very heavy rainfall at isolated places likely over East Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Rajasthan West Madhya Pradesh, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Marathwada and Telangana.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) over northwest Bay of Bengal, along and off Odisha, West Bengal coasts; **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over north east Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining south west and south east Arabian Sea, along and off Maharashtra and Karnataka coasts, north Bay of Bengal and adjoining central Bay of Bengal. **Squally winds** of 50-60 kmph gusting to 70 kmph likely over central parts of west-central Arabian Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest and northwest Arabian Sea, east-central and adjoining northeast Arabian Sea, west-central and adjoining east-central Bay of Bengal, northeast and adjoining northwest Bay of Bengal; Fishermen are advised not to venture into these seas.

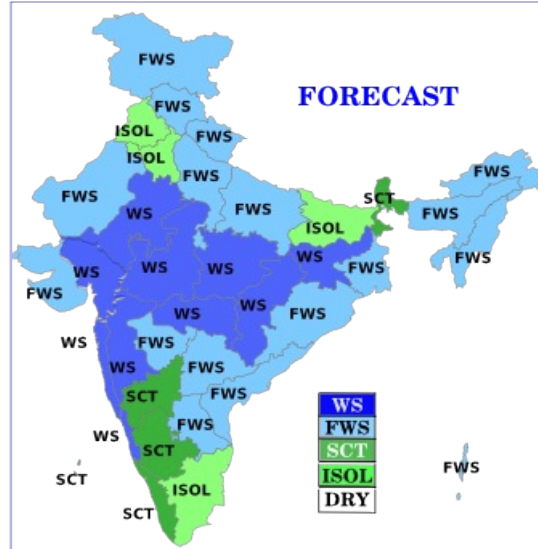
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Monday 15 August 2022



15 Aug (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over East Rajasthan, Madhya Pradesh and Vidarbha and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim and Marathwada.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) over northwest Bay of Bengal, along and off Odisha, West Bengal coasts; **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over northeast Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining southwest and southeast Arabian Sea, along and off Maharashtra and Karnataka coasts, north Bay of Bengal and adjoining central Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, northwest and adjoining west-central Bay of Bengal, along and off coastal Andhra Pradesh; Fishermen are advised not to venture into these seas.

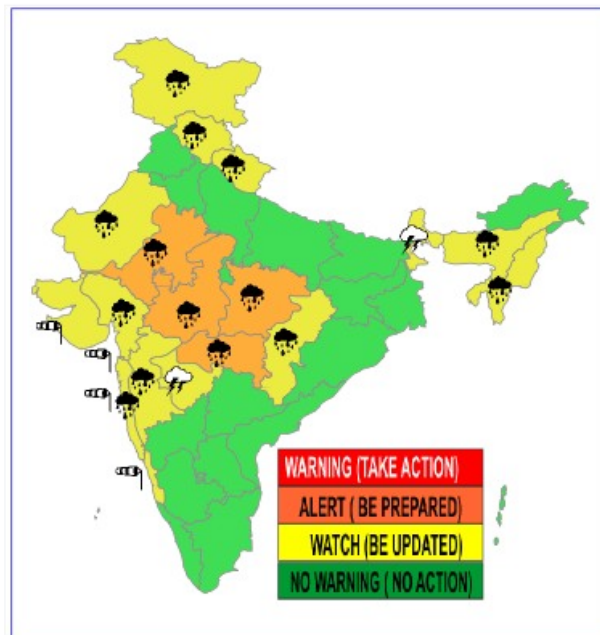
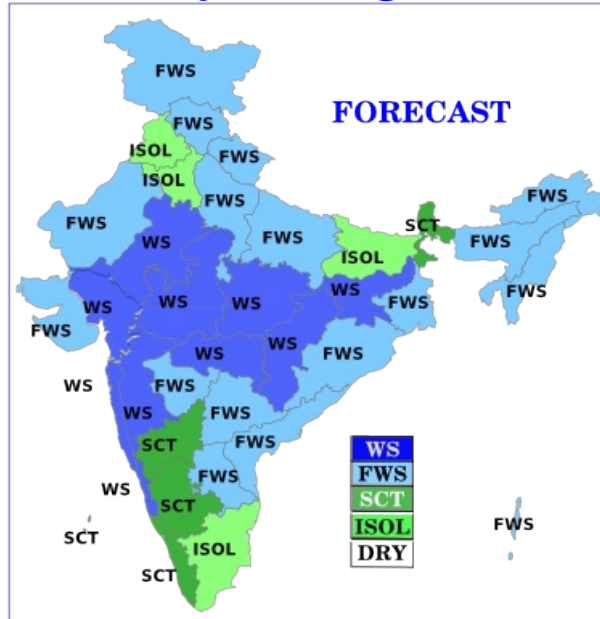
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(Circle as the National flag 487)

Tuesday 16 August 2022



16 Aug (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over East Rajasthan, Madhya Pradesh and Vidarbha and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim and Marathwada.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) over northwest Bay of Bengal, along and off Odisha, West Bengal coasts; **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over northeast Arabian Sea, along and off Gujarat coast, central Arabian Sea and adjoining southwest and southeast Arabian Sea, along and off Maharashtra and Karnataka coasts, north Bay of Bengal and adjoining central Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over west-central and adjoining southwest Arabian Sea, northwest and adjoining west-central Bay of Bengal, along and off coastal Andhra Pradesh; 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

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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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