



Tuesday 09 August 2022

MORNING

Time of Issue: 0740 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 4-5 days.
- ◆ The **Well Marked Low Pressure Area** lies over coastal areas of Odisha and Northwest Bay of Bengal. It is likely to concentrate into a Depression during next 12 hours and move gradually west-northwestwards across interior Odisha and Chhattisgarh.
- ◆ An eastwest shear zone runs roughly along 19°N over North Peninsular India in middle tropospheric levels. It is likely to persist during next 3-4 days.
- ◆ **Forecast and warnings:**
 - i) Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Gangetic West Bengal during 09th-11th; Jharkhand on 10th & 11th; Odisha during 09th-13th; Assam & Meghalaya on 09th and over Nagaland, Manipur, Mizoram & Tripura on 09th, 12th & 13th August, 2022.
 - a) Isolated **very heavy rainfall** also likely over Odisha on 10th August, 2022.
 - b) Isolated **extremely heavy rainfall** also likely over Odisha on 09th August, 2022.
 - ii) Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, ghat areas of Madhya Maharashtra & Konkan & Goa during 09th-13th; Gujarat State during 09th-11th and over Marathwada during 09th-10th August, 2022.
 - a) Isolated **very heavy rainfall** likely over West Madhya Pradesh during 10th-13th; East Madhya Pradesh during 09th-12th; Chhattisgarh during 09th-11th; Vidarbha on 10th & 11th; Marathwada on 09th; Saurashtra & Kutch on 09th & 11th and over Gujarat Region, ghat areas of Madhya Maharashtra & Konkan & Goa on 11th August, 2022.
 - b) Isolated/scattered **extremely heavy rainfall** also likely over Vidarbha on 09th; Konkan & Goa and ghat areas of Madhya Maharashtra and Gujarat Region on 09th & 10th and over Saurashtra & Kutch on 10th August, 2022.
 - iii) Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Telangana & Coastal Andhra Pradesh & Yanam on 09th; Karnataka and Kerala & Mahe during 09th-11th August, 2022.
 - a) Isolated **very heavy rainfall** likely over Telangana and Coastal & South Karnataka on 09th August, 2022.
 - iv) Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over southeast Rajasthan during 09th-13th; East Uttar Pradesh & Himachal Pradesh on 11th; West Uttar Pradesh on 12th August, 2022. Isolated **very heavy rainfall** also likely over Uttarakhand on 10th and over southeast Rajasthan on 12th & 13th 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 Vidarbha, Chhattisgarh, Marathwada, Konkan & Goa, Coastal & North Interior Karnataka; at many places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, West Madhya Pradesh, Odisha, Jharkhand, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Andaman & Nicobar Islands; at a few places over Himachal Pradesh, East Madhya Pradesh, Telangana, Gujarat Region and Rayalaseema and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, Bihar, West Rajasthan, Saurashtra & Kutch, Lakshadweep and Tamil Nadu, Puducherry & Karaikal.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday) (2 cm or more):** Harnai-8; Mahabaleshwar-7; Ratnagiri-6, Deesha-5; Kolhapur and Belgaum-4 each; Gopalpur -3 and Akola, Narsapur and Sanoli-2 each.
- ◆ **Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall occurred at isolated places over Madhya Maharashtra and Konkan & Goa.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Uttarakhand, Uttar Pradesh, West Rajasthan, Gujarat State, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Chhattisgarh, Odisha and Coastal Andhra Pradesh & Yanam.
- ◆ **Minimum Temperature Departures (as on 08-08-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Bihar, Madhya Pradesh and Saurashtra & Kutch; at isolated places over Himachal Pradesh, East Uttar Pradesh, West Rajasthan, Gujarat Region, Vidarbha, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Telangana and near normal over rest of the country. Yesterday, the lowest minimum temperature of 20.0°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 08-08-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Himachal Pradesh and East Madhya Pradesh and at isolated places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Bihar and Gujarat State; at a few places over Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh and East Rajasthan and at isolated places over Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at most places over Marathwada and North Interior Karnataka; at many places over Telangana and at isolated places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at many places over Konkan & Goa, South Interior Karnataka and Rayalaseema; at a few places over West Rajasthan, Coastal Karnataka and Andaman & Nicobar Islands and at isolated places over Kerala & Mahe and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.5°C was reported at Itanagar (Arunachal Pradesh).

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Well Marked Low Pressure Area** over Northwest Bay of Bengal & adjoining area of coastal Odisha, north Coastal Andhra Pradesh & adjoining Westcentral Bay of Bengal now lies over coastal areas of Odisha and Northwest Bay of Bengal. The associated cyclonic circulation extends upto 7.6 km above mean sea level. It is likely to concentrate into a Depression during next 12 hours and move gradually west-northwestwards across interior Odisha and Chhattisgarh.
- ◆ The **monsoon trough** at mean sea level now passes through Naliya, Ahmedabad, Indore, Jabalpur, Pendra Road, centre of **Well Marked Low Pressure Area** over coastal areas of Odisha and Northwest Bay of Bengal and thence southeastwards to north Andaman Sea and extends upto 0.9 km above mean sea level.
- ◆ The east-west shear zone roughly along 19° N over North Peninsular India between 3.1 km & 7.6 km above mean sea level persists.
- ◆ The off-shore trough from Maharashtra coast to Karnataka coast at mean sea level persists .
- ◆ The cyclonic circulation over West Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 14th 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 14th August - 16th 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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(Contact to the Meteorologist 1977)

Weather Warning during next 5 days *

09 Aug (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Vidarbha, Odisha, Gujarat Region, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Chhattisgarh, Saurashtra & Kutch, Marathwada, Telangana and Coastal & South Interior Karnataka and **heavy rainfall** at isolated places over southeast Rajasthan, West Madhya Pradesh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

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

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off North Andhra Pradesh, Tamil Nadu, and Comorin area & east Sri Lanka coasts. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Andaman Sea and parts of south Bay of Bengal. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep, Comorin area and along & off south Gujarat coast. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea and adjoining southwest & southeast Arabian Sea. **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over a small pocket over southwest Arabian Sea off Somalia coast. Fishermen are advised not to venture into these seas.

10 Aug (Day 2): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Gujarat state, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha and **heavy rainfall** at isolated places over southeast Rajasthan, Jharkhand, Gangetic West Bengal, Marathwada, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar and Kerala & Mahe.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over northwest Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off North Andhra Pradesh, Tamil Nadu, and Comorin area & east Sri Lanka coasts. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Bay of Bengal and Andaman Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep and northeast Arabian Sea & off Gujarat coast. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining areas of southwest & southeast Arabian Sea and along & off Karnataka, Goa, Maharashtra & south Gujarat coasts. **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over a parts of westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

11 Aug (Day 3): ♦ Heavy to very heavy rainfall at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat state, ghat areas of Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Himachal Pradesh, East Uttar Pradesh, southeast Rajasthan, Jharkhand, Gangetic West Bengal, Odisha, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Gangetic West Bengal and **with lightning** at isolated places over Rajasthan.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off south Tamil Nadu coast, Comorin area & southeast Sri Lanka coasts. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Bay of Bengal. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast & adjoining northwest Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining areas of south Arabian Sea and along & off Karnataka, Goa, Maharashtra & Gujarat coasts. **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over parts of westcentral & adjoining eastcentral Arabian Sea. Fishermen are advised not to venture into these seas.

12 Aug (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over southeast Rajasthan and Madhya Pradesh and **heavy rainfall** at isolated places over West Uttar Pradesh, Vidarbha, Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura, ghat areas of Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Gangetic West Bengal and **with lightning** at isolated places over Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph over central Bay of Bengal and adjoining north Bay of Bengal & parts of south Bay of Bengal. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Bay of Bengal and Andaman Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Arabian Sea off Gujarat coast. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea, adjoining areas of north Arabian Sea & southwest Arabian Sea. **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over parts of westcentral & adjoining southwest Arabian Sea. Fishermen are advised not to venture into these seas.

13 Aug (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over south Rajasthan and West Madhya Pradesh and **heavy rainfall** at isolated places over Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph over central Bay of Bengal and adjoining north Bay of Bengal & parts of south Bay of Bengal. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Bay of Bengal and Andaman Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Arabian Sea off Gujarat coast. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea, adjoining areas of north Arabian Sea & southwest Arabian Sea. **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over parts of westcentral & adjoining southwest Arabian Sea. Fishermen are advised not to venture into these seas.

Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.

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भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

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Table-1
5 Day Rainfall Forecast (MORNING)
09-August-2022

| Met-Sub-Division | 09-Aug Today | 10Aug Wed | 11Aug Thu | 12Aug Fri | 13Aug Sat |
|--------------------------------|-----------------|--------------|--------------|--------------|--------------|
| 1. Andaman & Nicobar Islands | FWS | FWS | FWS | FWS | FWS |
| 2. Arunachal Pradesh | SCT | SCT | SCT | SCT | SCT |
| 3. Assam & Meghalaya | SCT | SCT | SCT | SCT | SCT |
| 4. N. M. M. & T. | FWS | FWS | FWS | FWS | FWS |
| 5. S.H. West Bengal & Sikkim | SCT | SCT | SCT | SCT | SCT |
| 6. Gangetic West Bengal | WS | WS | WS | FWS | FWS |
| 7. Odisha | WS | WS | WS | FWS | FWS |
| 8. Jharkhand | WS | WS | WS | FWS | FWS |
| 9. Bihar | SCT | SCT | SCT | SCT | SCT |
| 10. East Uttar Pradesh | ISOL | ISOL | ISOL | ISOL | ISOL |
| 11. West Uttar Pradesh | ISOL | ISOL | ISOL | ISOL | ISOL |
| 12. Uttarakhand | ISOL | WS | SCT | ISOL | ISOL |
| 13. Haryana, Chd & Delhi | ISOL | ISOL | ISOL | ISOL | ISOL |
| 14. Punjab | ISOL | ISOL | ISOL | ISOL | ISOL |
| 15. Himachal Pradesh | ISOL | SCT | FWS | ISOL | ISOL |
| 16. J & K and Ladakh | ISOL | ISOL | SCT | ISOL | ISOL |
| 17. West Rajsthan | SCT | ISOL | SCT | SCT | SCT |
| 18. East Rajasthan | FWS | SCT | SCT | WS | WS |
| 19. West Madhya Pradesh | FWS | WS | WS | WS | WS |
| 20. East Madhya Pradesh | WS | WS | WS | WS | WS |
| 21. Gujarat Region | WS | WS | FWS | FWS | FWS |
| 22. Saurashtra & Kutch | WS | WS | FWS | SCT | SCT |
| 23. Konkan & Goa | WS | WS | WS | WS | WS |
| 24. Madhya Maharashtra | WS | WS | FWS | FWS | FWS |
| 25. Marathawada | WS | WS | FWS | FWS | FWS |
| 26. Vidharbha | WS | WS | WS | WS | WS |
| 27. Chhattisgarh | WS | WS | WS | WS | WS |
| 28. Coastal A. P. & Yanam | FWS | SCT | SCT | SCT | SCT |
| 29. Telangana | FWS | SCT | ISOL | ISOL | ISOL |
| 30. Rayalaseema | SCT | 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 | FWS | SCT | SCT |
| 34. South Interior Karnataka | FWS | FWS | SCT | SCT | SCT |
| 35. Kerala & Mahe | WS | WS | FWS | FWS | FWS |
| 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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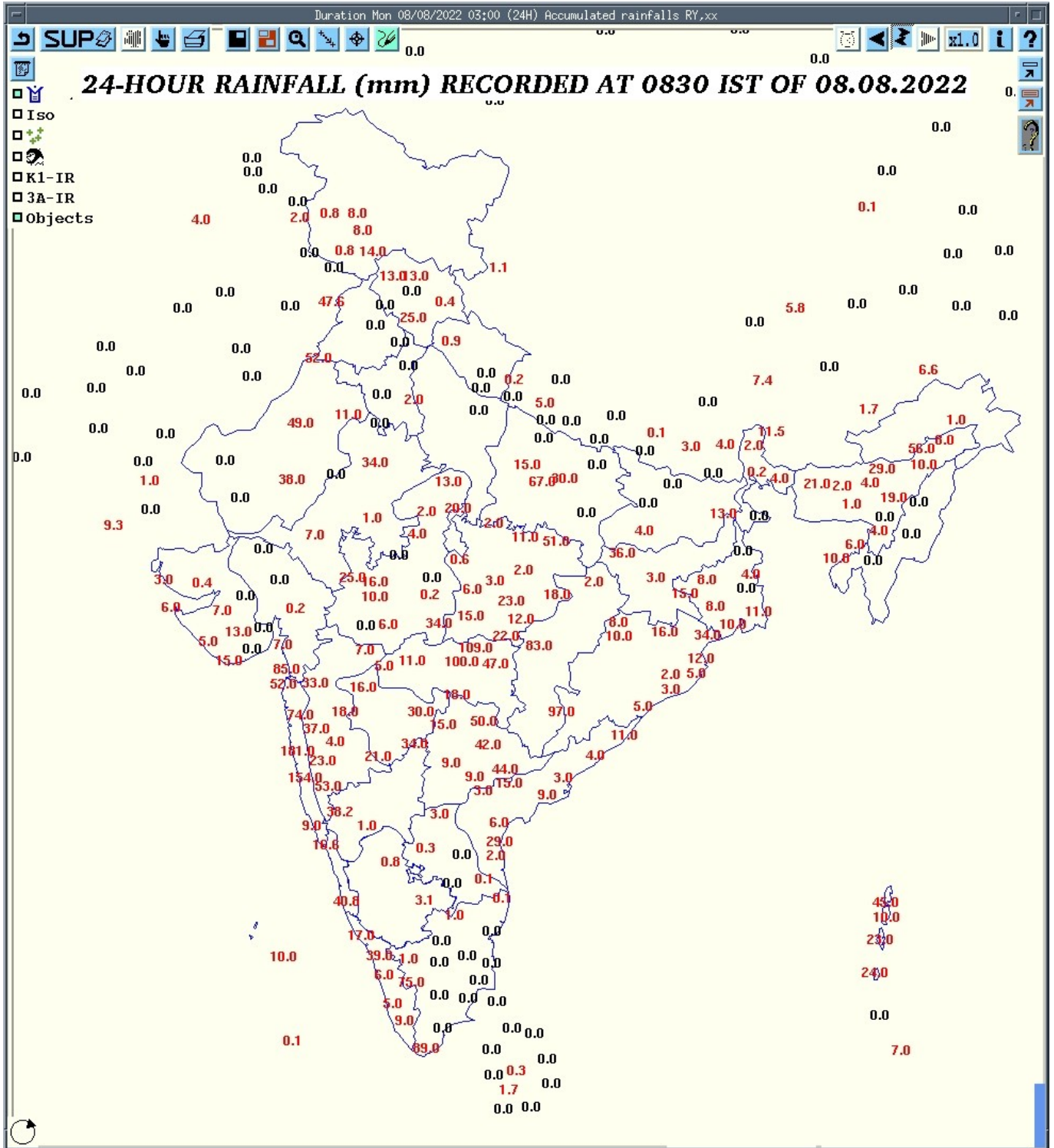
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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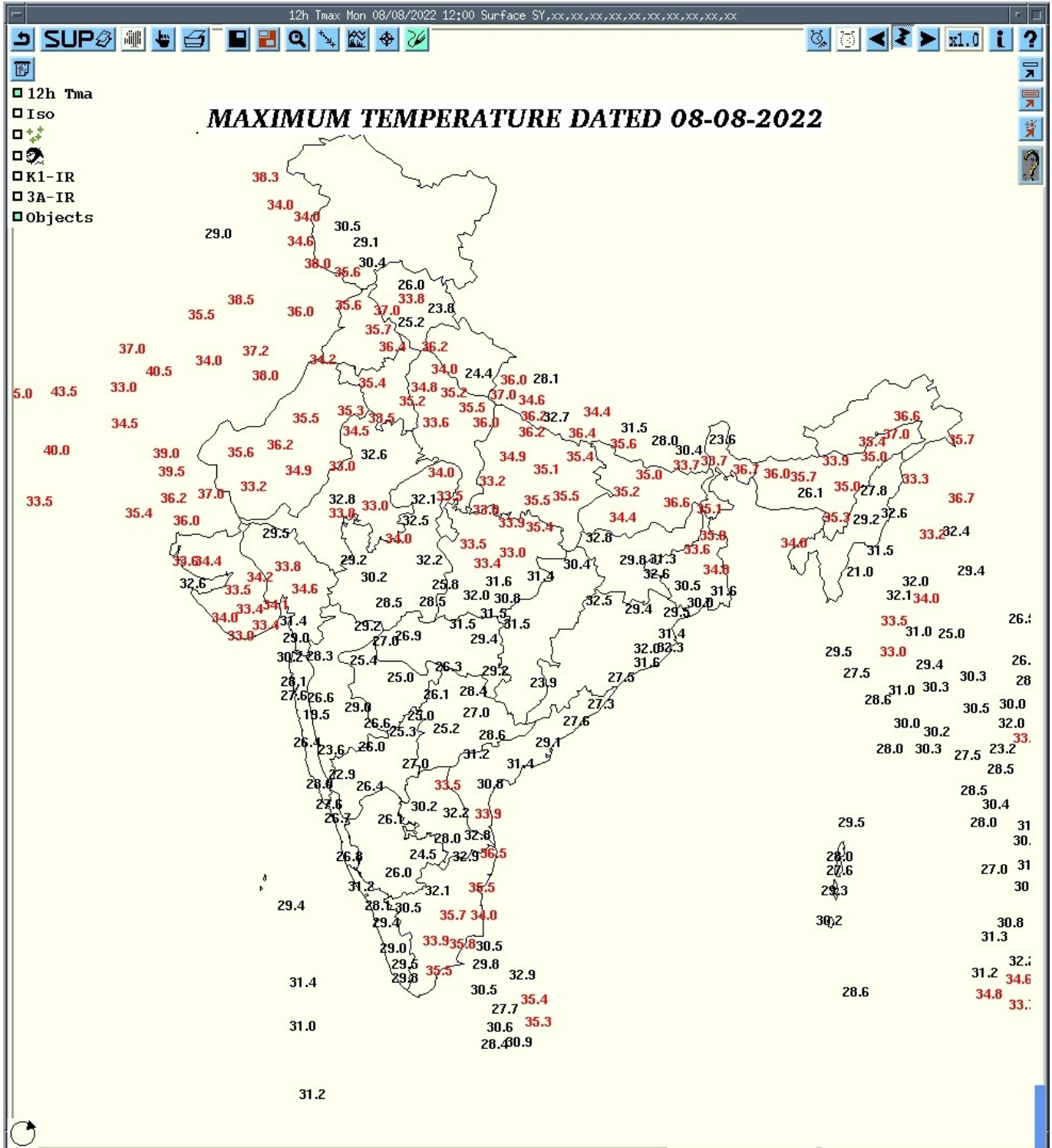
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(Created by the MetInfo team 1977)



Fig. 2: Maximum Temperature during past 24 hours



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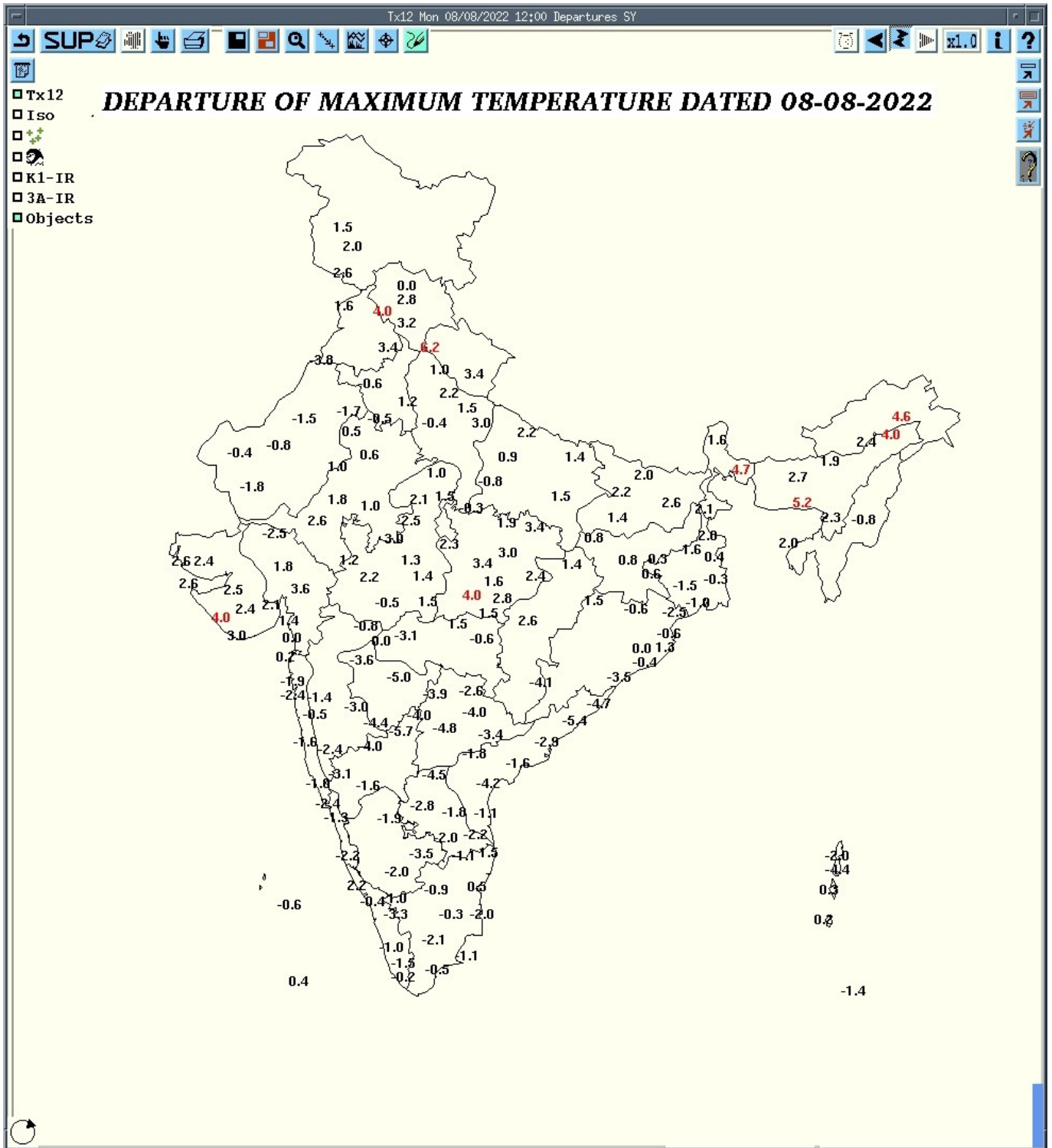
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Fig. 4 : Departure from Normal of Maximum Temperatures



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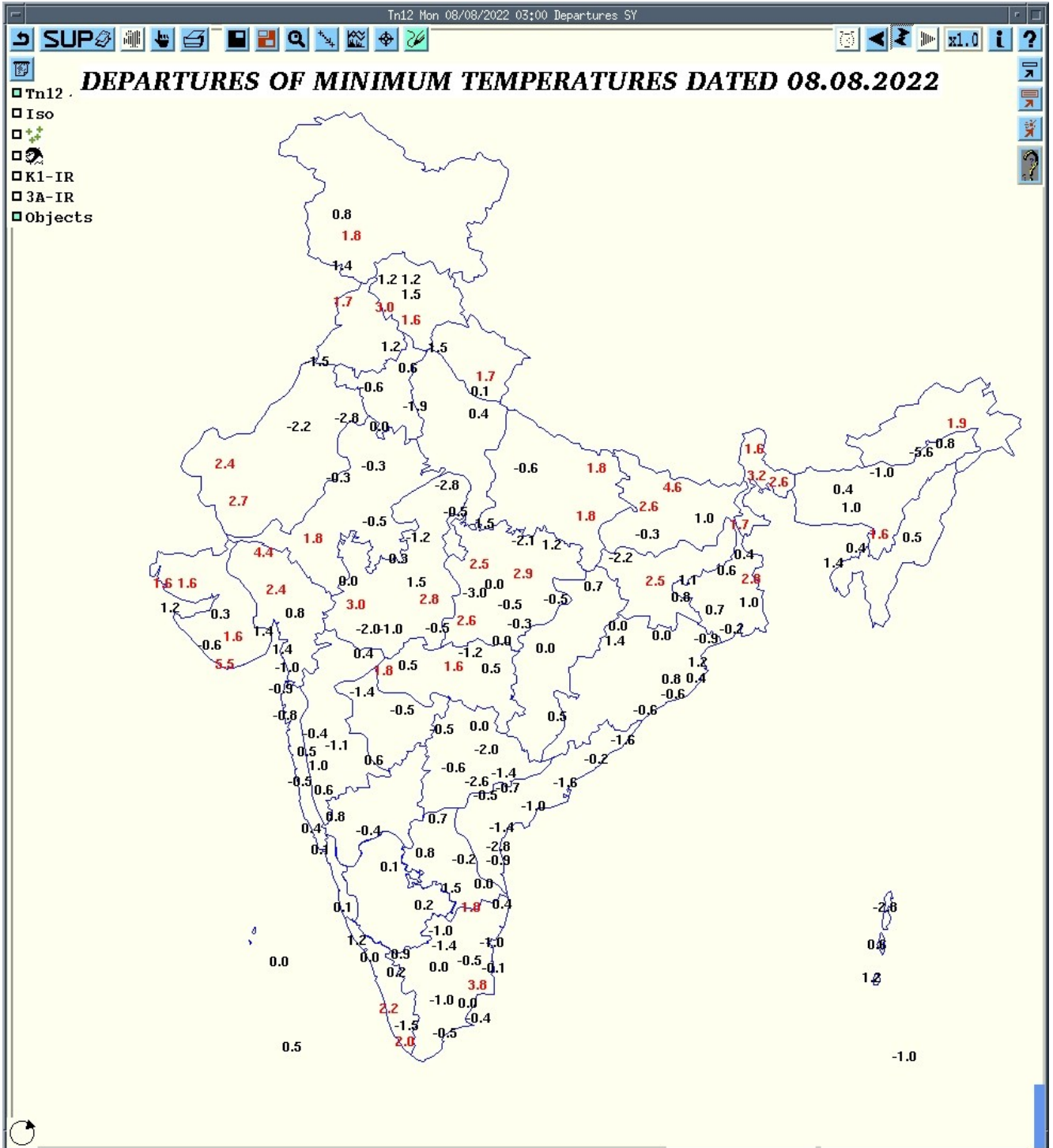
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(Created by the MetInfo team 19/7/20)



Fig. 5 : Departure from Normal of Minimum Temperatures



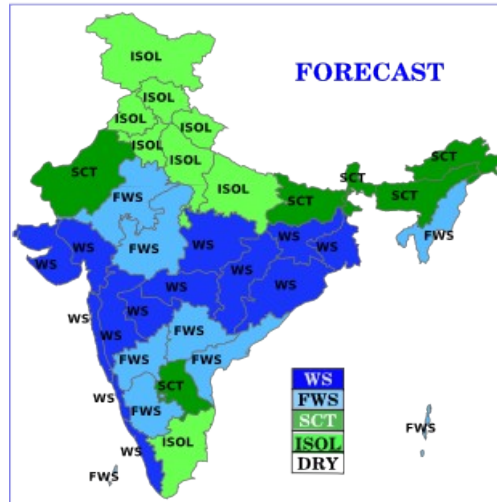
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Tuesday 09 August 2022



09 Aug (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Vidarbha, Odisha, Gujarat Region, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Chhattisgarh, Saurashtra & Kutch, Marathwada, Telangana and Coastal & South Interior Karnataka and **heavy rainfall** at isolated places over southeast Rajasthan, West Madhya Pradesh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

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

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off North Andhra Pradesh, Tamil Nadu, and Comorin area & east Sri Lanka coasts. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Andaman Sea and parts of south Bay of Bengal. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep, Comorin area and along & off south Gujarat coast. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea and adjoining southwest & southeast Arabian Sea. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over a small pocket over southwest Arabian Sea off Somalia coast. Fishermen are advised not to venture into these seas.

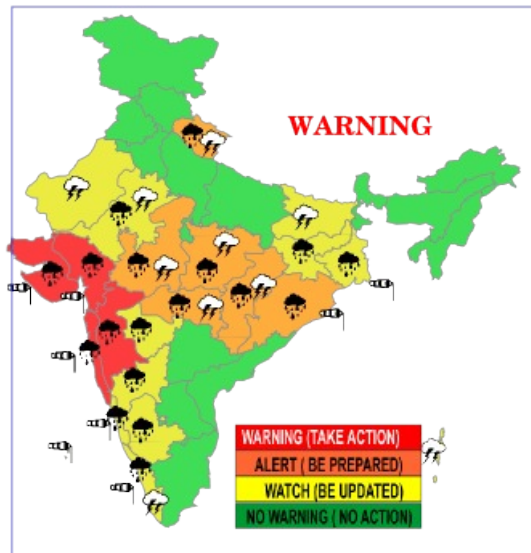
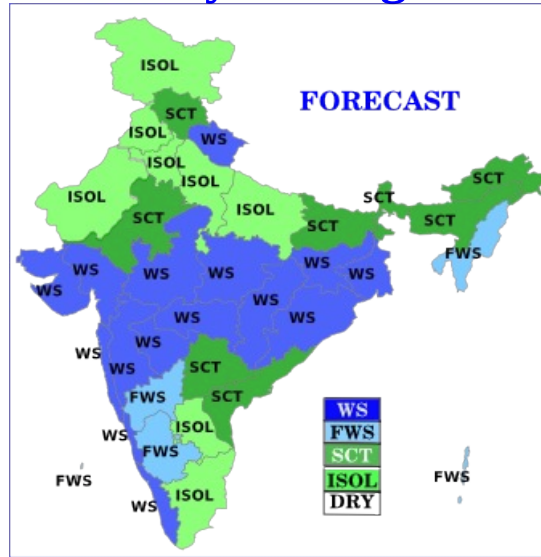
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(Copies to the Meteorologist (A-1))

Wednesday 10 August 2022



10 Aug (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Gujarat state, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha and **heavy rainfall** at isolated places over southeast Rajasthan, Jharkhand, Gangetic West Bengal, Marathwada, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar and Kerala & Mahe.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over northwest Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off North Andhra Pradesh, Tamil Nadu, and Comorin area & east Sri Lanka coasts. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Bay of Bengal and Andaman Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep and northeast Arabian Sea & off Gujarat coast. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining areas of southwest & southeast Arabian Sea and along & off Karnataka, Goa, Maharashtra & south Gujarat coasts. **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over a parts of westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

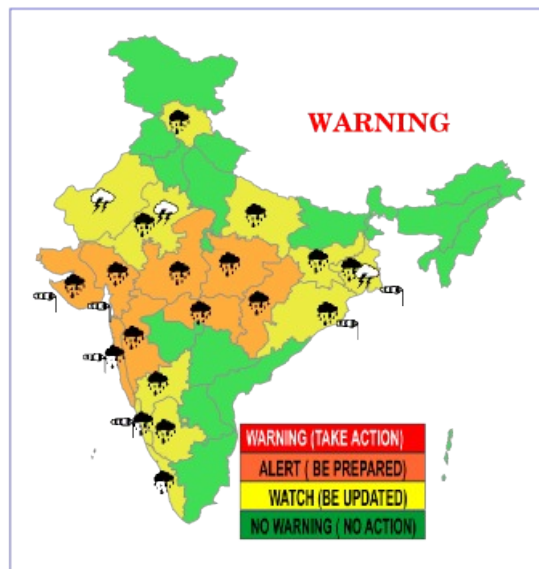
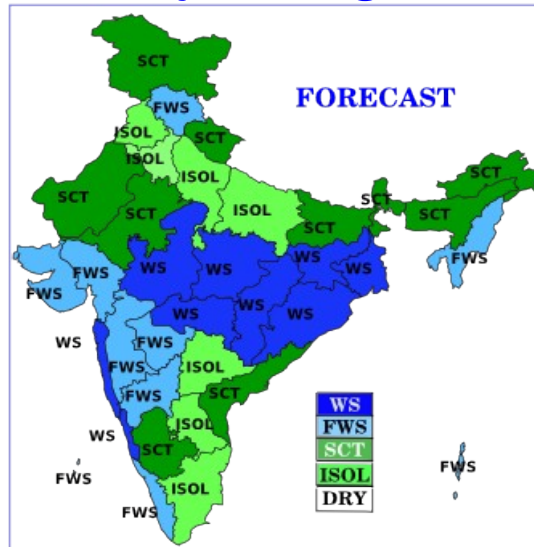
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(Circle as the National flag 487)

Thursday 11 August 2022



11 Aug (Day 3): ♦ Heavy to very heavy rainfall at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat state, ghat areas of Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Himachal Pradesh, East Uttar Pradesh, southeast Rajasthan, Jharkhand, Gangetic West Bengal, Odisha, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Gangetic West Bengal and **with lightning** at isolated places over Rajasthan.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over north Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off south Tamil Nadu coast, Comorin area & southeast Sri Lanka coasts. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Bay of Bengal. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast & adjoining northwest Arabian Sea. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining areas of south Arabian Sea and along & off Karnataka, Goa, Maharashtra & Gujarat coasts. **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over parts of westcentral & adjoining eastcentral Arabian Sea. Fishermen are advised not to venture into these seas.

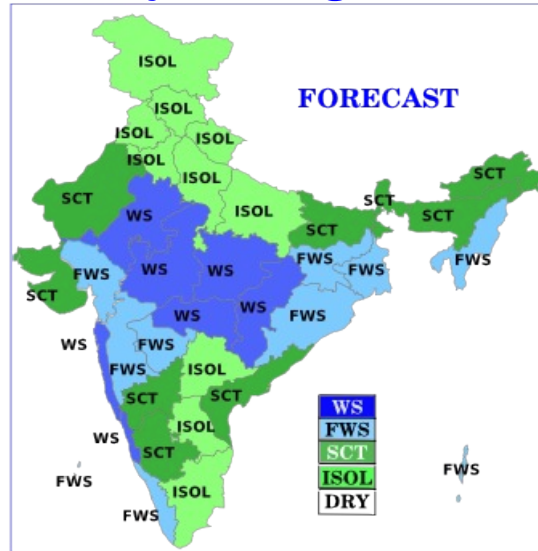
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(Copies to the Meteorology 1077)

Friday 12 August 2022



12 Aug (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over southeast Rajasthan and Madhya Pradesh and **heavy rainfall** at isolated places over West Uttar Pradesh, Vidarbha, Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura, ghat areas of Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Gangetic West Bengal and **with lightning** at isolated places over Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph over central Bay of Bengal and adjoining north Bay of Bengal & parts of south Bay of Bengal. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Bay of Bengal and Andaman Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Arabian Sea off Gujarat coast. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea, adjoining areas of north Arabian Sea & southwest Arabian Sea. **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over parts of westcentral & adjoining southwest Arabian Sea. Fishermen are advised not to venture into these seas.

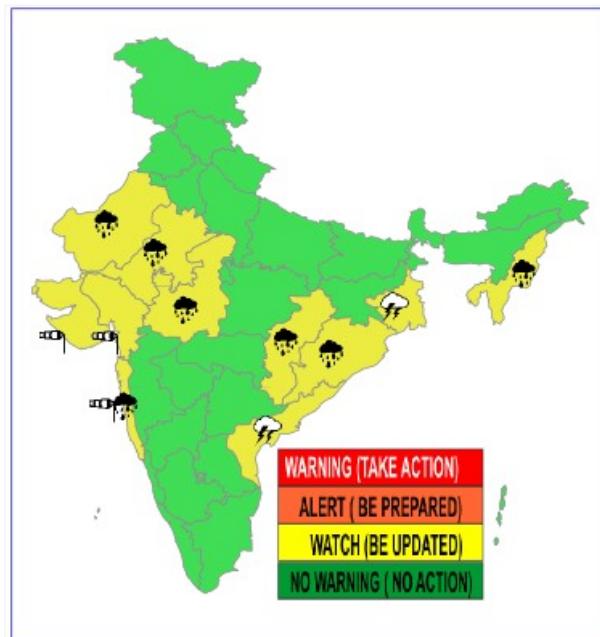
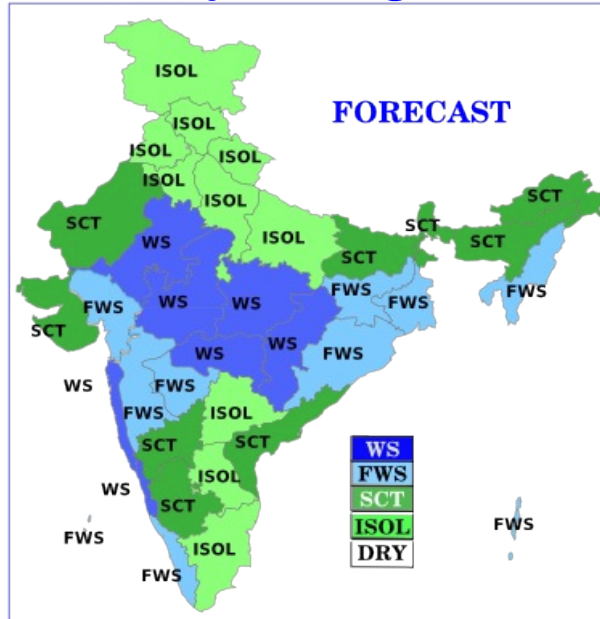
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(Circle as the National flag 4870)

Saturday 13 August 2022



13 Aug (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over south Rajasthan and West Madhya Pradesh and **heavy rainfall** at isolated places over Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph over central Bay of Bengal and adjoining north Bay of Bengal & parts of south Bay of Bengal. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Bay of Bengal and Andaman Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast Arabian Sea off Gujarat coast. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea, adjoining areas of north Arabian Sea & southwest Arabian Sea. **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over parts of westcentral & adjoining southwest Arabian Sea. 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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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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