

Saturday, May 17, 2025
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Northeast India:

- ❖ Fairly widespread to widespread light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Northeast India during next 7 days.
- ❖ **Isolated heavy rainfall** over Arunachal Pradesh, Assam & Meghalaya during 17th-21st; Tripura on 17th & 18th with isolated **very heavy rainfall** over Assam & Meghalaya on 17th & 18th and Arunachal Pradesh on 17th May.

South peninsular India:

- ❖ Fairly widespread to widespread light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Kerala & Mahe, Lakshadweep, coastal Karnataka, Scattered to fairly widespread accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, interior Karnataka during next 7 days with **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Telangana, Coastal Andhra Pradesh & Yanam on 17th; Rayalaseema on 19th & 20th May.
- ❖ **Isolated heavy rainfall** likely over coastal Karnataka on 19th, 22nd & 23rd; Kerala & Mahe during 17th-23rd; Tamil Nadu, Puducherry & Karaikal, Interior Karnataka during 17th-20th; Lakshadweep on 20th; Coastal Andhra Pradesh, Telangana on 17th and Rayalaseema on 19th & 20th May with the **Isolated very heavy rainfall also likely over coastal Karnataka on 20th & 21st and over Kerala & Mahe during 19th-21st May.**

West India:

- ❖ **Isolated** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Konkan & Goa, Madhya Maharashtra, Marathawada during 17th-22nd May.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Madhya Maharashtra on 20th & 21st and Konkan & Goa during 19th-21st May.
- ❖ **Isolated heavy rainfall** likely over south Madhya Maharashtra, south Konkan & Goa on 20th May with **very heavy rainfall over Konkan on 21st & 22nd May, 2025.**

East & Central India:

- ❖ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Bihar, West Bengal & Sikkim during next 7 days with **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Odisha on 17th; Bihar on 17th & 18th; Jharkhand on 18th & 19th and Chhattisgarh on 17th May.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 17th-20th; Gangetic West Bengal and Bihar on 18th May.

Northwest India:

- ✓ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 17th-21st May.
- ✓ Isolated light rainfall likely over East Uttar Pradesh, East Rajasthan during 17th-21st; Punjab, Haryana, West Uttar Pradesh during 19th-21st May.
- ✓ **Isolated hailstorm** very likely over Himachal Pradesh on 19th May.
- ✓ **Strong dust raising winds (25-35 kmph)** very likely over West Rajasthan during 17th-19th May.

Heat wave and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely in isolated pockets of Jammu & Kashmir during 17th-18th; southwest Uttar Pradesh on 17th; West Rajasthan during 17th-22nd; North Madhya Pradesh on 18th & 19th May.
- ❖ **Hot & humid weather** is likely to prevail over Bihar and Odisha on 17th May.

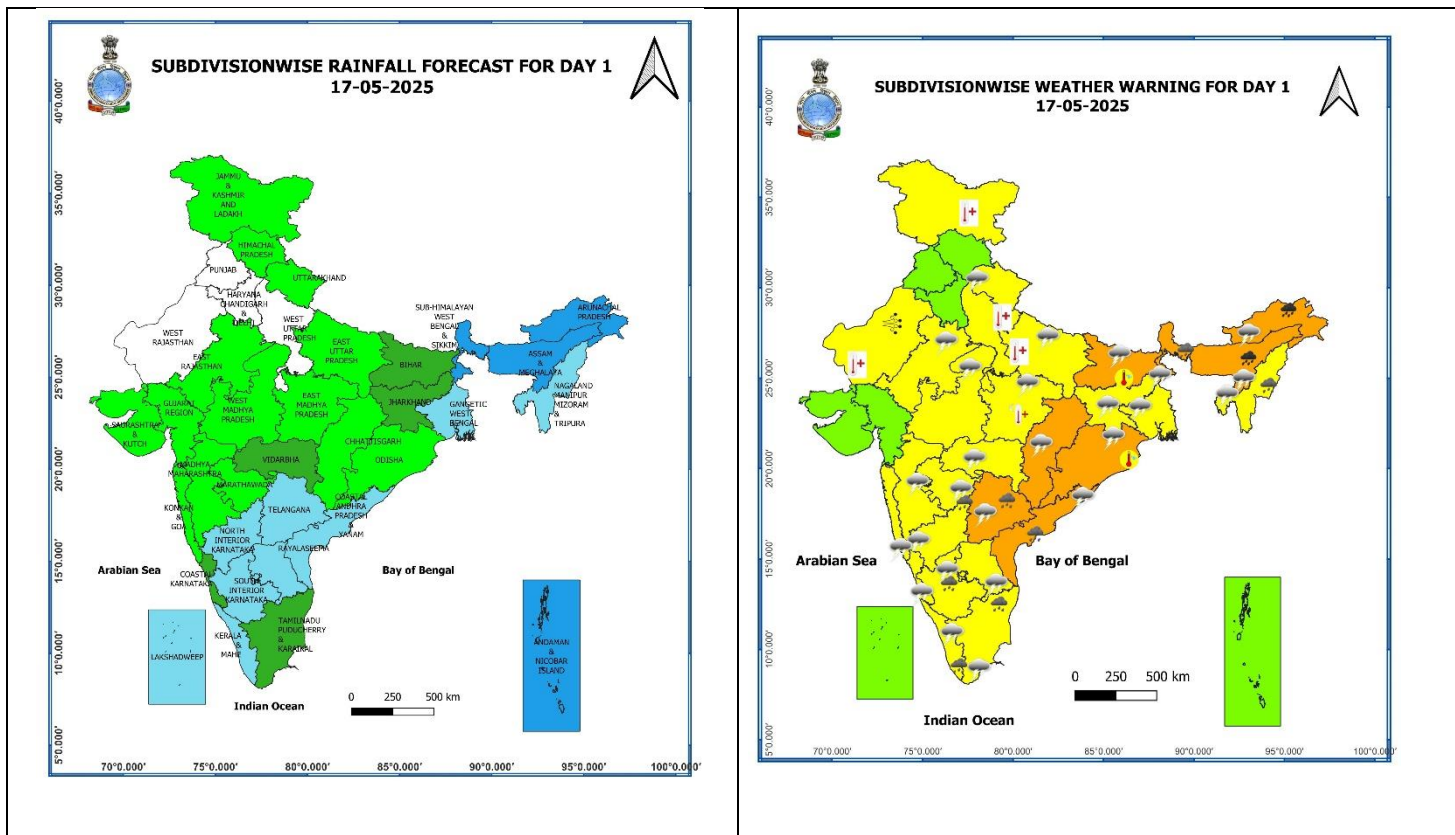
Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Andaman & Nicobar Islands; at many places over Odisha; **at a few places** over Tamil Nadu, Puducherry & Karaikal, Assam & Meghalaya, Madhya Maharashtra; **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Karnataka, Vidarbha; **Dry** over rest of the country.
- ❖ **Significant amount of rainfall recorded** (from 0830 hours to 1730 hours IST of yesterday) (in cm): **Andaman & Nicobar Islands:** Port Blair 7, Long Island 5, Maya Bandar 4; **Odisha:** Daringabadi 4, Bhadrak 3; **Madhya Maharashtra:** Pune 2, Satara 2; Assam & Meghalaya: Rangia 2.
- ❖ **Heavy rainfall recorded** at isolated places over Andaman & Nicobar Islands.
- ❖ **Minimum Temperature Departures (as on 16-05-2025):** Minimum temperatures were **markedly above normal (> 5.1°C)** at a few places over East Madhya Pradesh; at isolated places over Assam & Meghalaya, Bihar, Uttar Pradesh, Himachal Pradesh, West Madhya Pradesh, Gujarat Region and Saurashtra & Kutch; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Nagaland, Manipur, Mizoram & Tripura and West Rajasthan; at isolated places over Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Haryana-Chandigarh-Delhi, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at a few places over Punjab and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Uttarakhand, East Rajasthan, Madhya Maharashtra, Chhattisgarh, North Interior Karnataka, South Interior Karnataka and Kerala & Mahe and normal over rest parts of the country (**Fig. 4**). Yesterday, the **lowest minimum temperature** of 20.4°C was reported at **Medak (Telangana)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 16-05-2025):** Maximum Temperatures were **markedly above normal (5.1°C or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over East Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at a few places over West Rajasthan, Jharkhand, Himachal Pradesh; at isolated places over East Madhya Pradesh, West Uttar Pradesh, Gangetic West Bengal, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Saurashtra & Kutch, East Rajasthan. These were **markedly below normal (-5.1°C or less)** at isolated places over Madhya Maharashtra, North Interior Karnataka, Coastal Andhra Pradesh & Yanam; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over West Madhya Pradesh, Marathwada, Telangana, Rayalaseema, Gujarat Region; **below normal (-1.6°C to -3.0°C)** at a few places over Andaman & Nicobar Islands; at isolated place over South Interior Karnataka, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim and normal over rest parts of the country. (**Fig. 2**). Yesterday, the highest **maximum temperature** of 46.2°C was reported at **Banda (East Uttar Pradesh)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon continues to pass through 5°N/70°E, 6°N/75°E, 6°N/80°E, 7°N/85°E, 8°N/87°E, 10°N/90°E, Long Island, 15°N/95°E and 17°N/97°E.
- ❖ Conditions are favorable for further advance of southwest Monsoon over some more parts of south Arabian Sea, Maldives & Comorin area; South Bay of Bengal, remaining parts of Andaman Islands and Andaman Sea; and some parts of central Bay of Bengal during next 2-3 days.
- ❖ The upper air **cyclonic circulation** over northwest Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The **trough** from above cyclonic circulation over northwest Uttar Pradesh to north Bangladesh now runs across East Uttar Pradesh, south Bihar, north Jharkhand, north Gangetic West Bengal at 0.9 km above mean sea level.
- ❖ The **upper air cyclonic circulation** over central Assam at 0.9 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over southeast Bay of Bengal between 3.1 & 5.8 km above mean sea level tilting southwestwards with height persists.
- ❖ The **upper air cyclonic circulation** over west central Bay of Bengal and adjoining north Coastal Andhra Pradesh at 1.5 km above mean sea level persists.
- ❖ The **upper air cyclonic circulation** over eastcentral & adjoining northeast Arabian Sea off south Gujarat-North Konkan coasts at 1.5 km above mean sea level persists.
- ❖ A fresh **Western disturbance** is likely to affect western Himalayan region from 18th May 2025.
- ❖ The **upper air cyclonic circulation** over Haryana at 0.9 km above mean sea level has become less marked.

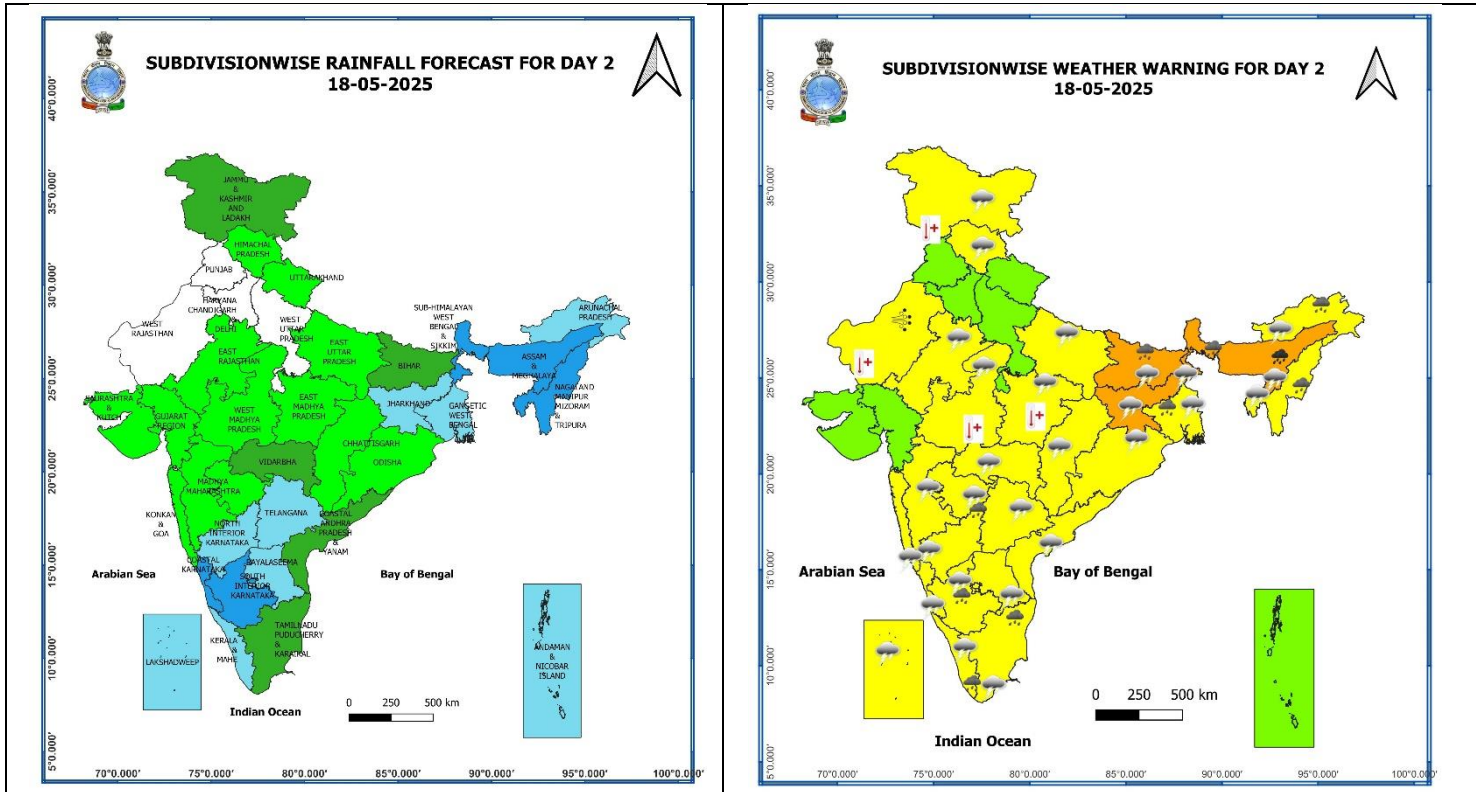
Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 24th May, 2025)



17th May (Day 1)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Heavy Rainfall** very likely at isolated places over Coastal Andhra Pradesh, Interior Karnataka, Kerala & Mahe, Tripura, Sub Himalayan West Bengal & Sikkim, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar, Chhattisgarh, Coastal Andhra Pradesh, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, East Uttar Pradesh, Gangetic West Bengal, Interior Karnataka, Jharkhand, Konkan & Goa, Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Rayalaseema and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over East Madhya Pradesh, East Rajasthan, Kerala & Mahe, Sub Himalayan West Bengal & Sikkim, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh and Costal Karnataka.
- ❖ **Dust Raising Winds** very likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** very likely at isolated places over Jammu-Kashmir, southwest Uttar Pradesh and West Rajasthan.
- ❖ **Hot and Humid weather** very likely at isolated places over Bihar and Odisha.
- ❖ **Warm Night conditions** very likely at isolated places over East Madhya Pradesh.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** very likely to prevail along and off Somalia coast, along and off Oman coast, over Gulf of Mannar; adjoining Comorin area, along and off south Sri Lanka coast; adjoining southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

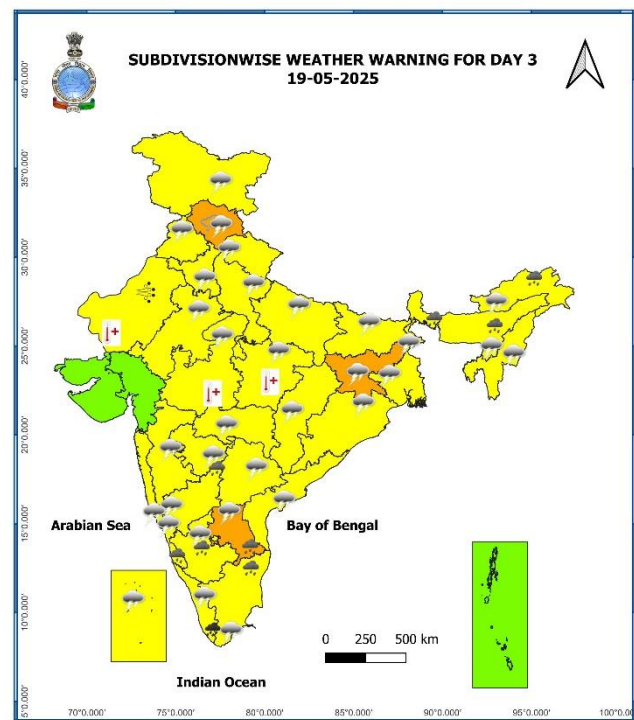
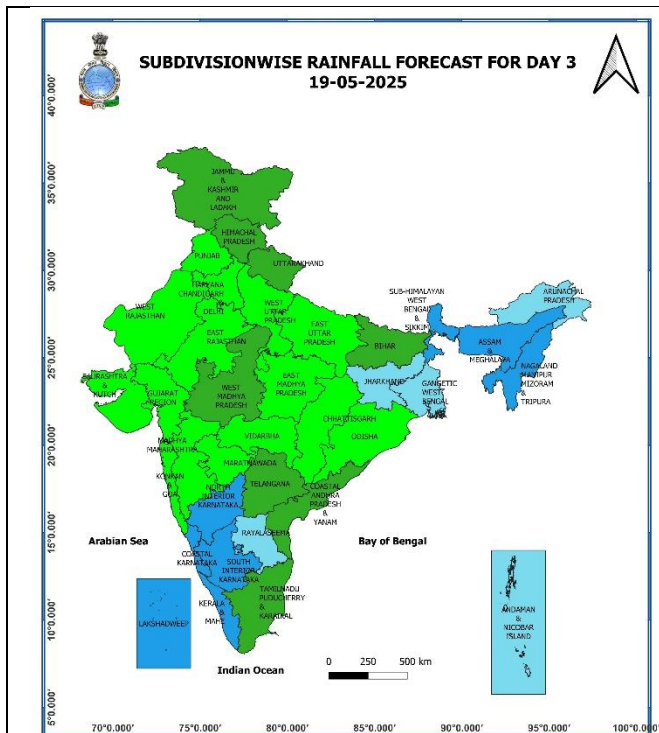
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18th May (Day 2)

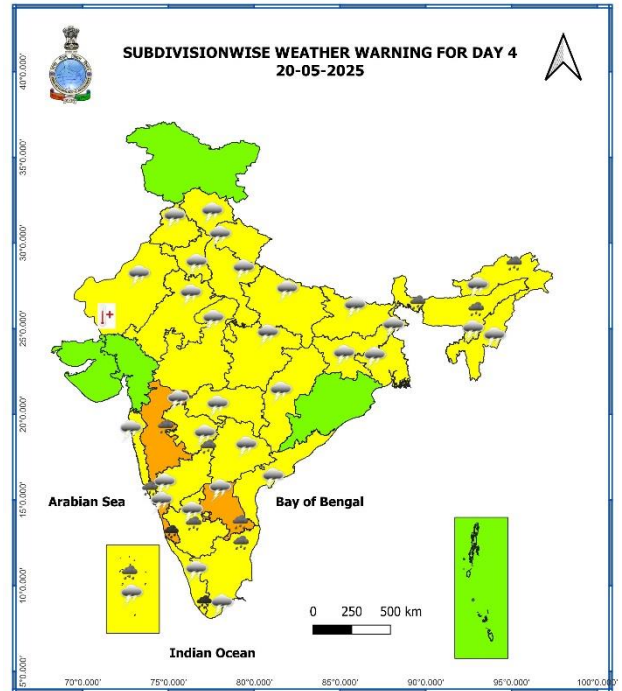
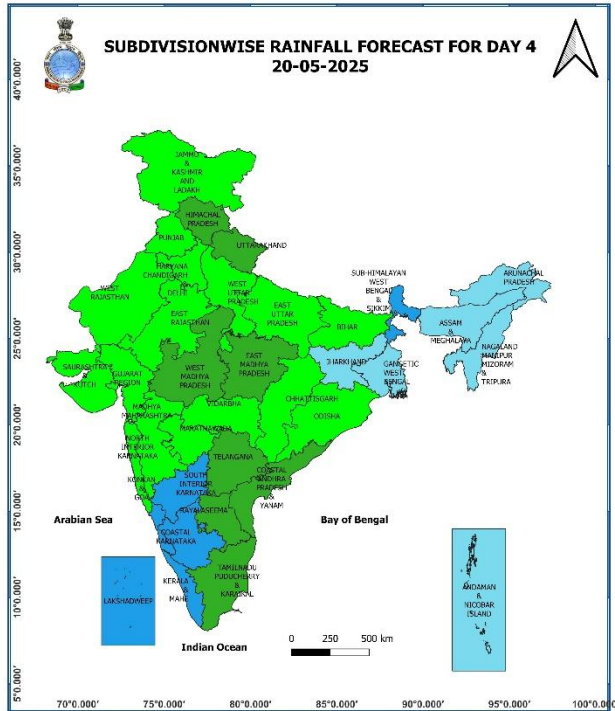
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Bihar, Interior Karnataka, Kerala & Mahe, Tripura, Tamil Nadu Puducherry & Karaikal and West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar and Jharkhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, East Rajasthan, East Uttar Pradesh, Gangetic West Bengal, Himachal Pradesh, Interior Karnataka, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Maharashtra, Tamil Nadu Puducherry & Karaikal, Telangana and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over East Madhya Pradesh, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Coastal Karnataka and Lakshadweep.
- ❖ **Dust Raising Winds** very likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** very likely at isolated places over Jammu-Kashmir, north Madhya Pradesh and West Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Oman coast, over Gulf of Mannar & adjoining Comorin area. **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** prevailing along and off Karnataka, Kerala coasts and adjoining parts of Lakshadweep area.

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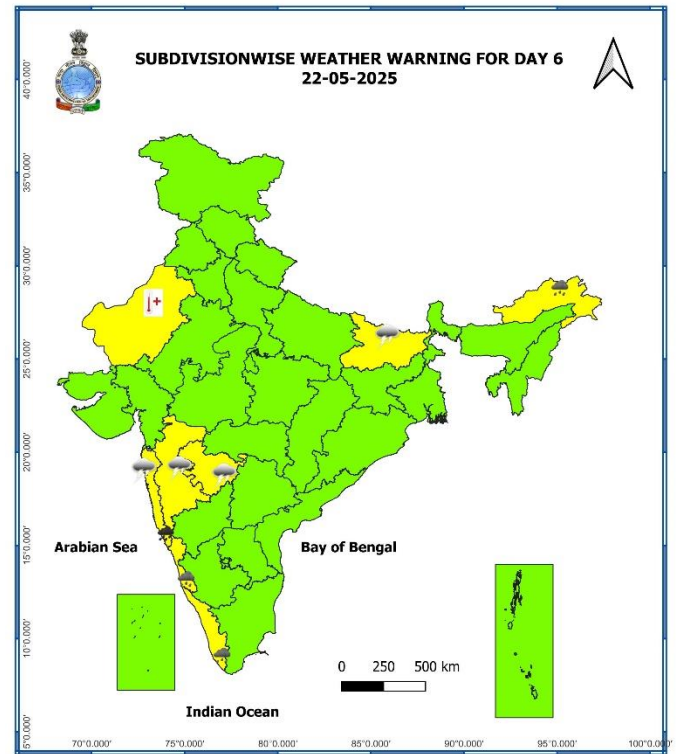
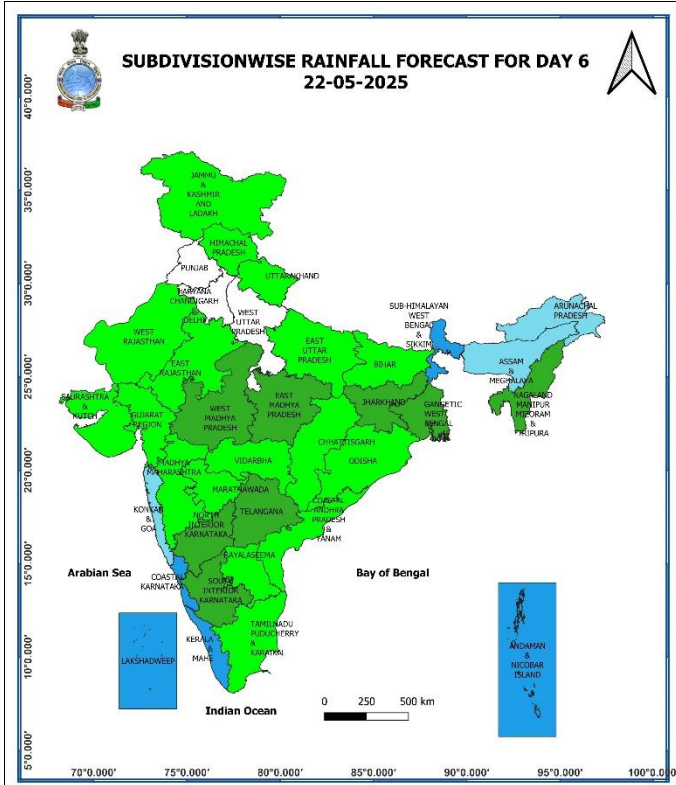
19th May (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Kerala & Mahe.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Costal Karnataka, Interior Karnataka, Rayalaseema, Sub Himalayan West Bengal & Sikkim and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Hailstorm** likely at isolated places over Himachal Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Jharkhand, Konkan & Goa and Rayalaseema.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh, East Rajasthan, Haryana, Chandigarh & Delhi, Himachal Pradesh, Interior Karnataka, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Maharashtra, Punjab, Tamil Nadu Puducherry & Karaikal, Telangana, Uttar Pradesh, Uttarakhand and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya, Bihar, East Madhya Pradesh, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, Odisha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Costal Karnataka and Lakshadweep.
- ❖ **Dust Raising Winds** likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** likely at isolated places over north Madhya Pradesh and West Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Yemen coast, over Gulf of Mannar & adjoining Comorin area. **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** prevailing along and off south Konkan, Goa coasts, along and off Karnataka, Kerala coasts and adjoining parts of Lakshadweep area.



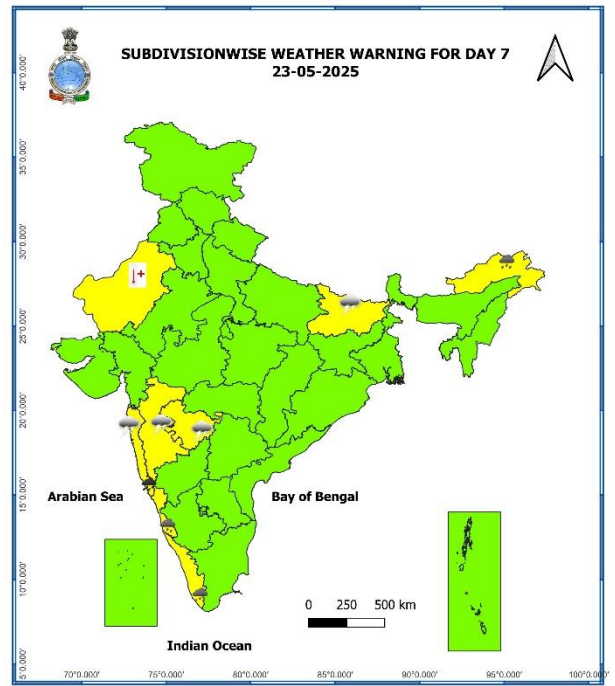
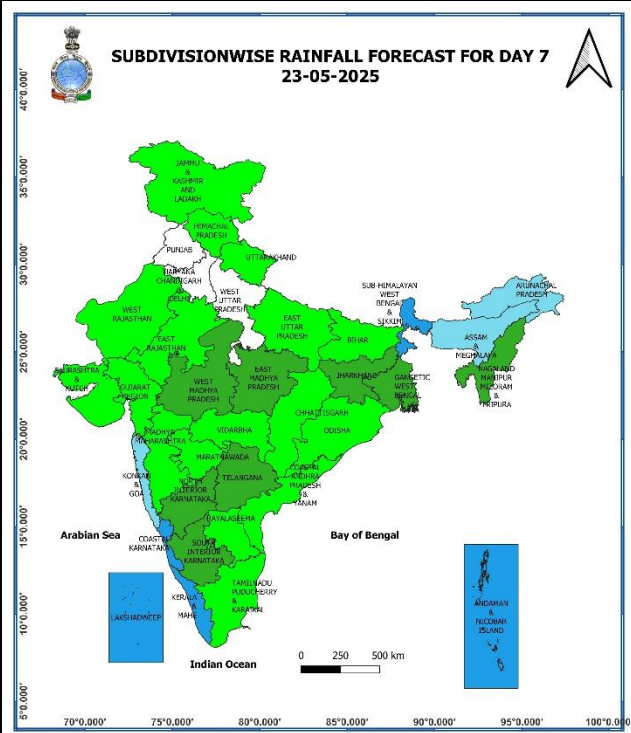
20th May (Day 4)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Kerala & Mahe and Costal Karnataka.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Interior Karnataka, Konkan & Goa, Lakshadweep, Madhya Maharashtra, Rayalaseema, Sub Himalayan West Bengal & Sikkim and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Rayalaseema.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh, East Rajasthan, Haryana, Chandigarh & Delhi, Interior Karnataka, Jharkhand, Marathwada, Punjab, Tamil Nadu Puducherry & Karaikal, Telangana, Uttarakhand, Vidarbha, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya, Bihar, East Madhya Pradesh, East Uttar Pradesh, Himachal Pradesh, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, West Bengal & Sikkim and West Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Costal Karnataka and Lakshadweep.
- ❖ **Heat Wave conditions** likely at isolated places over West Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, along and off Yemen coast, over Gulf of Mannar & adjoining Comorin area. **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** prevailing along and off south Konkan, Goa coasts, along and off Karnataka, Kerala coasts and adjoining parts of Lakshadweep area.



22nd May (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Konkan & Goa.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Coastal Karnataka, Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Marathwada.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar.
- ❖ **Heat Wave conditions** likely at isolated places over West Rajasthan.



23rd May (Day 7)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Konkan & Goa.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Coastal Karnataka, Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Marathwada.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar.
- ❖ **Heat Wave conditions** likely at isolated places over West Rajasthan.

Weather Outlook for subsequent 3 days (During 24th May- 26th May, 2025)

- ❖ **Fairly widespread to widespread** rainfall activity likely over Northeast India.
- ❖ **Scattered to fairly widespread** rainfall activity likely over Chhattisgarh, Maharashtra, East and south peninsular India.
- ❖ **Isolated to scattered rainfall** likely over Jammu-Kashmir-Ladakh, Uttarakhand, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, East Rajasthan and Madhya Pradesh.

Action may be taken based on **ORANGE AND RED** COLOUR warnings.

- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

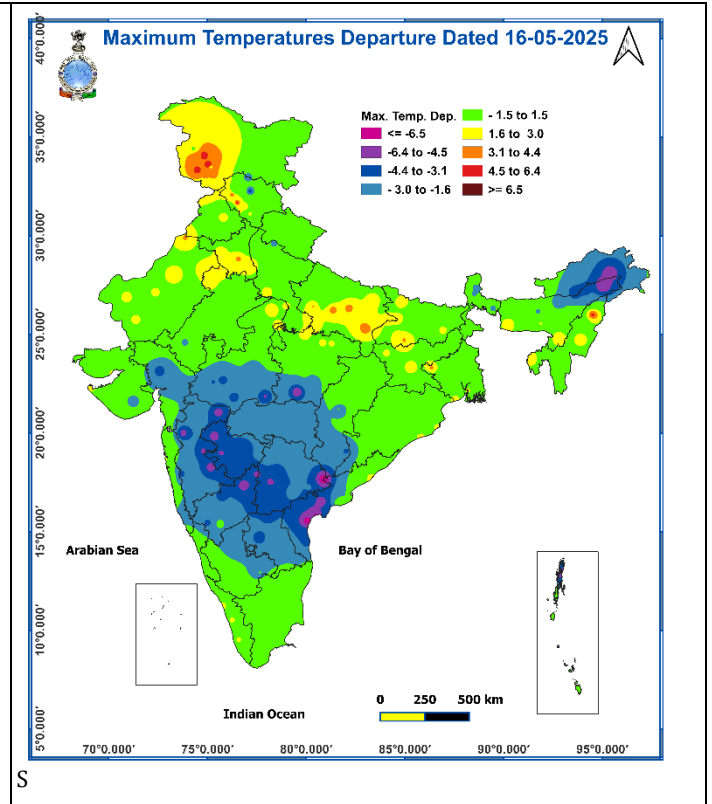
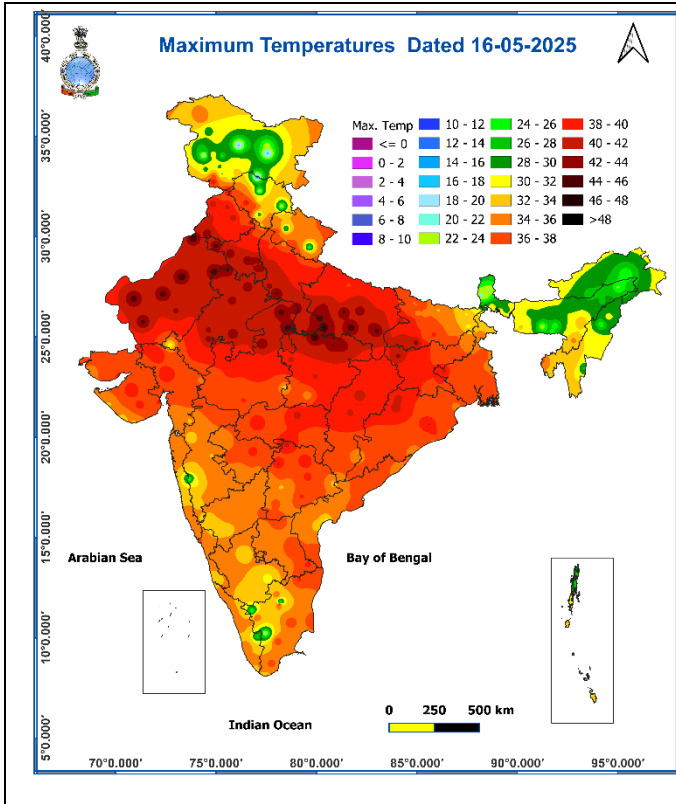


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

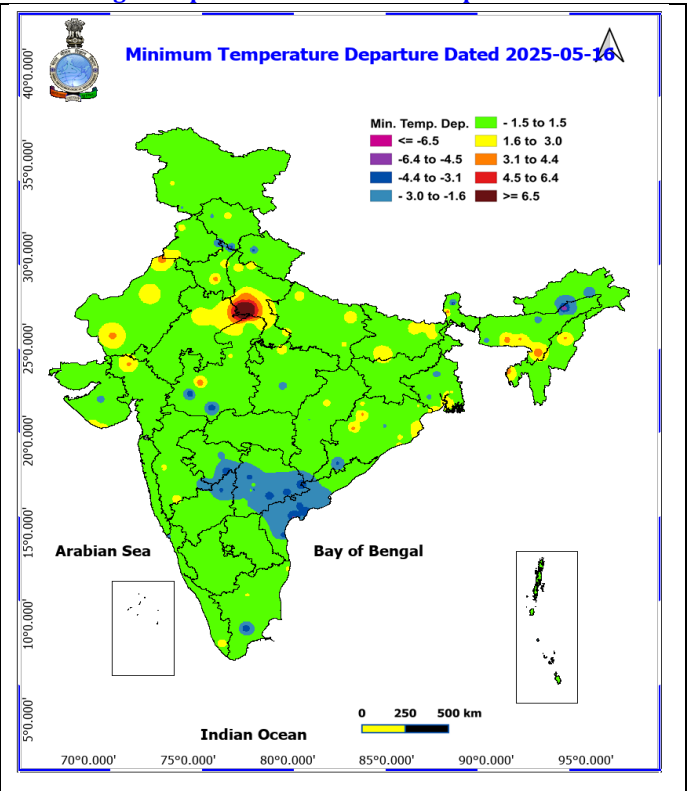
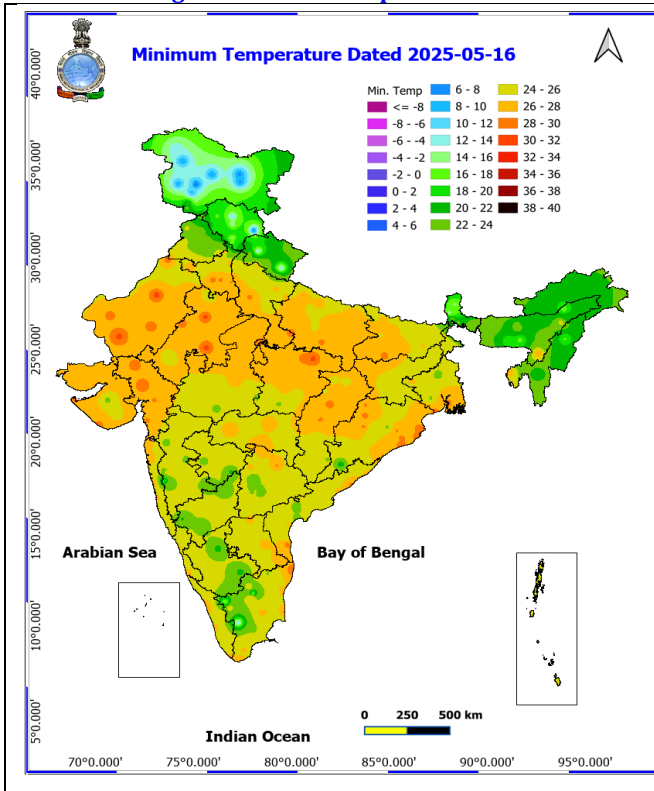
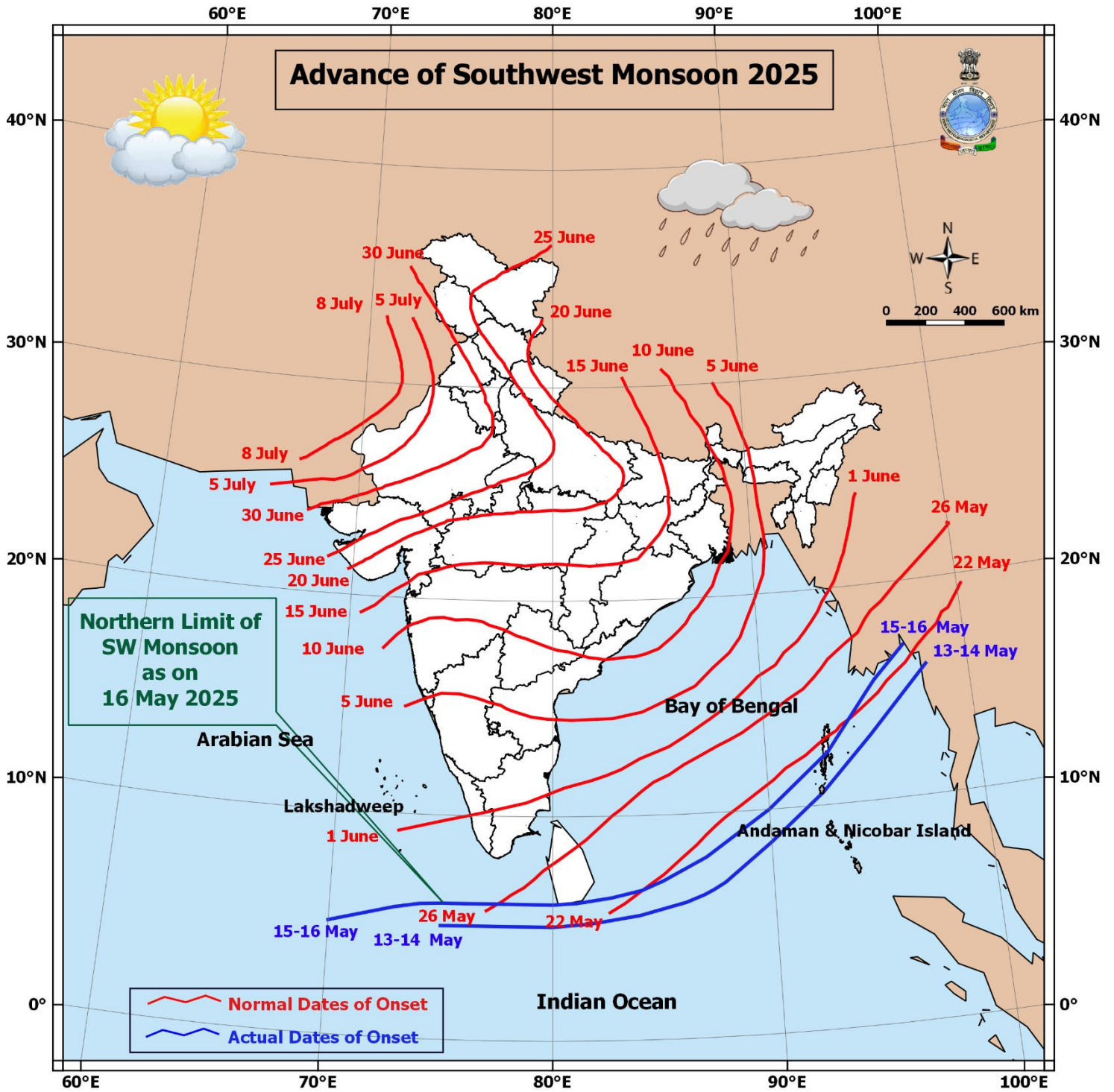
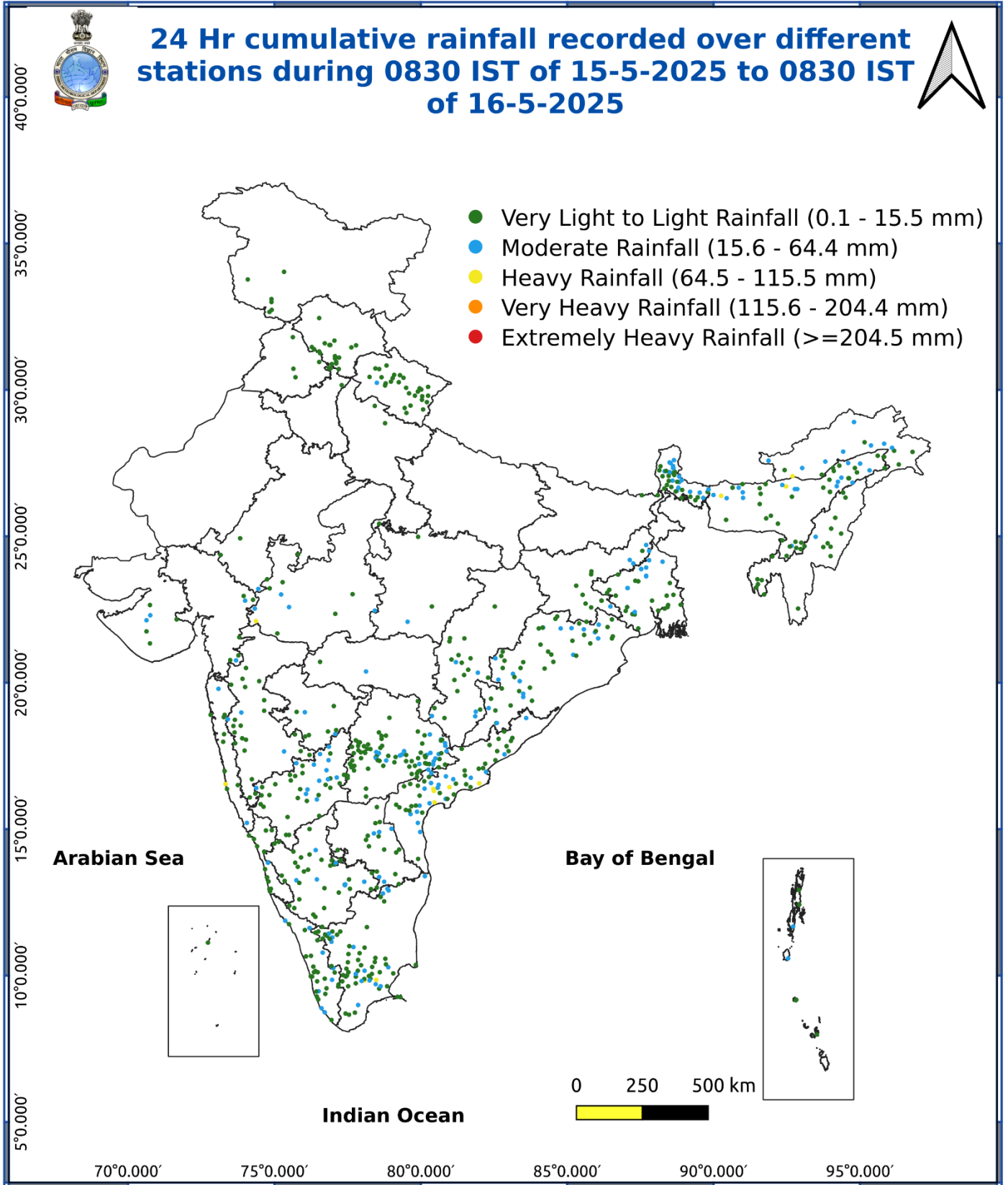


Fig. 5: Advance of Southwest Monsoon 2025



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Fig. 6: Accumulated Rainfall (mm) during past 24 hours



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Impact & Action Suggested due to very heavy rainfall over

Very heavy rainfall over Arunachal Pradesh on 17th; Assam & Meghalaya on 17th & 18th; Konkan & Goa on 21st & 22nd; Kerala & Mahe during 19th -21st; Coastal Karnataka on 20th & 21st May.

Impact Expected

- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ❖ Minor damage to kutchha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- ❖ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

Action Suggested

- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Odisha, Telangana, Coastal Andhra Pradesh & Yanam on 17th; Bihar on 17th & 18th; Jharkhand on 18th & 19th; Chhattisgarh on 17th; Madhya Maharashtra on 20th & 21st; Konkan & Goa during 19th-21st; Rayalaseema on 19th & 20th May.
- ❖ **Isolated hailstorm** very likely over Himachal Pradesh on 19th May.

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutchha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

Impact expected and action suggested due to Heat wave conditions over Jammu & Kashmir on 17th & 18th; southwest Uttar Pradesh on 17th; West Rajasthan during 17th-22nd; North Madhya Pradesh on 18th & 19th May.

Yellow alert Areas

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

Agromet advisories for likely impact of Heavy Rainfall / Hailstorm / Gusty Winds / Heat Wave

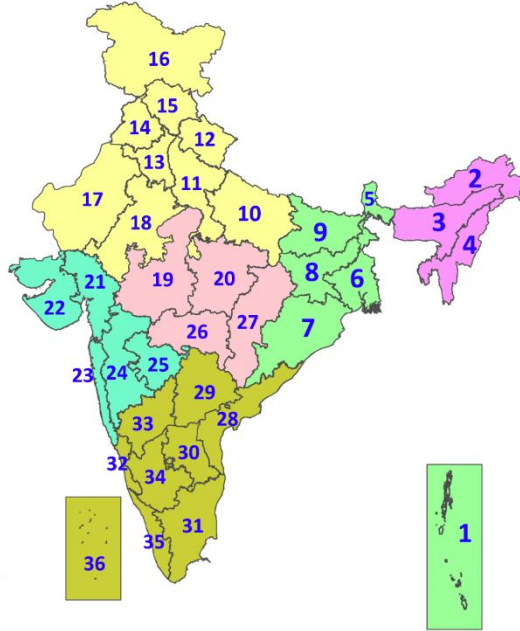
- In **North Eastern States, Sub Himalayan West Bengal & Sikkim, Tamil Nadu, Kerala, North Interior Karnataka, South Interior Karnataka, Andhra Pradesh and Telangana**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Uttarakhand**, use hail nets and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.
- In **Jammu & Kashmir, Uttar Pradesh and West Rajasthan**, apply light and frequent irrigation in the evening to protect standing crops, vegetables and orchards from the adverse effects of heat waves and high temperatures.

Livestock / Poultry / Fishery

- Keep the animals inside the shed during heavy rainfall / Hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty of drinking water to animals.

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और 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. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
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)

- | | | |
|----------------------|----------------------|--------------|
| Fog | Heavy Snow | Cold Wave |
| Heavy Rain | Dust Storm | Cold Day |
| Very Heavy Rain | Heat Wave | Ground Frost |
| Extremely Heavy Rain | Warm Night | |
| Thunder & Lightning | Hot Day | |
| Hailstorm | Hot & Humid | |
| Dust Raising Winds | Strong Surface Winds | |

COLOUR CODED WARNING

No Warning (No Action)
Watch (Be Aware)
Alert (Be Prepared To Take Action)
Warning (Take Action)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

DEFINITION/CRITERIA

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 $\leq -6.5^{\circ}\text{C}$

(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 $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$

Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres

Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)

Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph

Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre

Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Strom: Wind speed > 220 kmph (> 119 knots)