

Friday, May 23, 2025
Time of Issue: 0845 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

South peninsular India:

- ❖ Fairly widespread to widespread light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph with isolated heavy to very heavy rainfall** likely over Kerala, Karnataka during 23rd -28th May.
- ❖ **Isolated Extremely heavy rainfall** very likely over Coastal Karnataka on 24th May.
- ❖ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** likely over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana during next 5 days.
- ❖ **Isolated heavy rainfall** likely over Tamilnadu Puducherry & Karaikal during 23rd -26th; Coastal Andhra Pradesh & Yanam on 26th & 27th May.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Coastal Andhra Pradesh & Yanam, Rayalaseema on 26th May.

West India:

- ❖ Fairly widespread to widespread light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Konkan & Goa, Madhya Maharashtra, Marathawada during 23rd -28th and **Scattered to Fairly widespread** rainfall over Gujarat State during 23rd -25th May with **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Konkan & Goa, Madhya Maharashtra, Marathawada on 23rd and over Gujarat state during 25th-28th May.
- ❖ **Isolated Extremely heavy rainfall** very likely over Konkan & Goa during 23rd -24th and Madhya Maharashtra on 24th May.
- ❖ **Isolated heavy to very heavy rainfall** very likely over Konkan & Goa, Madhya Maharashtra during 23rd -28th; **isolated heavy rainfall** over Gujarat State during 23rd -28th and Marathawada on 23rd May.

Northeast India:

- ❖ Fairly widespread to widespread light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Northeast India during next 7 days with **Isolated heavy rainfall** over Assam & Meghalaya during 23rd -27th; Nagaland, Manipur, Mizoram & Tripura during 23rd -25th; Arunachal Pradesh during 23rd-26th May.

East & Central India:

- ❖ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over West Bengal & Sikkim, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha & Bihar during 23rd -26th May with **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over East Madhya Pradesh during 23rd -25th; West Madhya Pradesh, Jharkhand, Chhattisgarh on 23rd May.
- ❖ **Isolated heavy rainfall** likely over Jharkhand, Gangetic West Bengal, Chhattisgarh on 23rd; Andaman & Nicobar Islands during 23rd-26th, Vidarbha on 24th, Odisha on 27th & 28th May, 2025.

Northwest India:

- ❖ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Uttarakhand, Himachal Pradesh, Uttar Pradesh and **isolated to scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana Chandigarh, Rajasthan during 23rd -28th May with **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Uttarakhand during 23rd -24th, West Rajasthan, Himachal Pradesh on 23rd & 24th; East Rajasthan on 25th & 26th may.
- ❖ **Isolated hailstorm** over Himachal Pradesh on 23rd & 24th May.
- ❖ **Isolated heavy rainfall** also likely over Uttarakhand on 23th & 24th May.
- ❖ **Duststorm (40-50 kmph)** also very likely over West Rajasthan during 23rd-25th May.

Maximum Temperature Forecast:

- ❖ Fall by 2-4°C in maximum temperatures likely over Northwest India during next 24 hours, rise by 2-3°C over thereafter for subsequent 3 days and no significant change thereafter.
- ❖ Fall by 2-4°C in maximum temperatures likely over Central India during next 4 days and rise by 2-3°C over thereafter for subsequent 3 days
- ❖ No significant change in maximum temperatures likely over Central India during next 2 days and fall by 2-4°C over thereafter for subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

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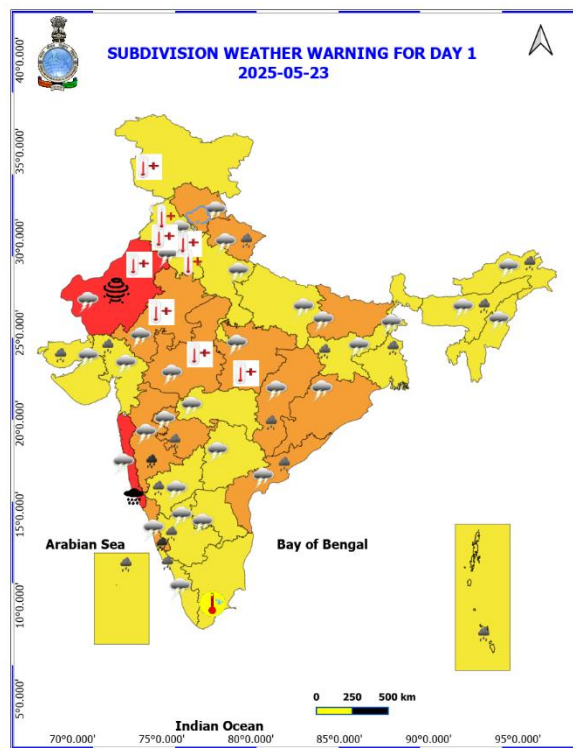
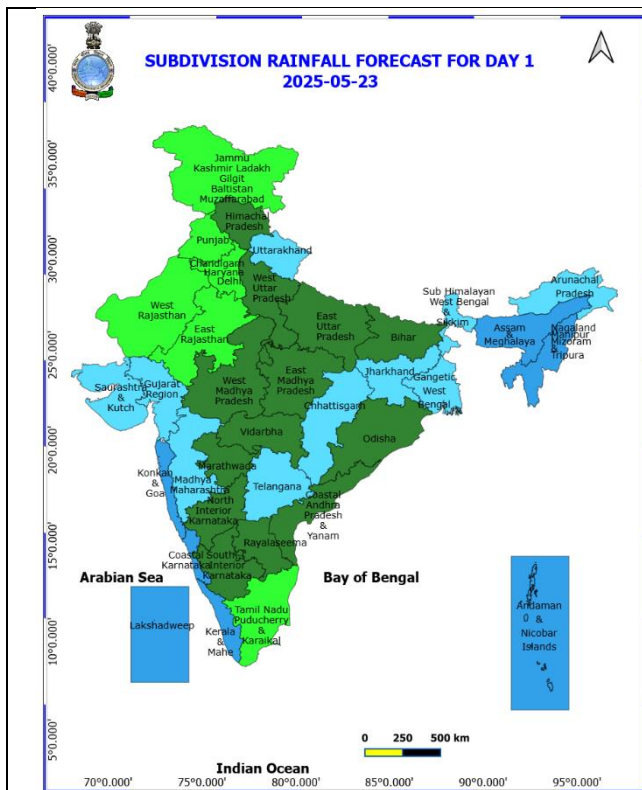
Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places over** Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and North Interior Karnataka; **at many places over** West Uttar Pradesh, Odisha, Madhya Maharashtra, Assam & Meghalaya, Jharkhand, Konkan & Goa, Kerala & Mahe, Marathwada, Tamilnadu Puducherry & Karaikal, Andaman & Nicobar Islands and Lakshadweep; **isolated places over** Haryana-Chandigarh-Delhi, West Rajasthan, Vidarbha, Rayalaseema, Coastal Andhra Pradesh & Yanam, Telangana, Chhattisgarh.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **NIL**
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): **Konkan & goa:** Ratnagiri (dist Ratnagiri) 5, Panjim (dist North Goa) 3; **Coastal Karnataka:** Karwar (dist Uttara Kannada) 4, Honavar (dist Uttara Kannada) 3.
- ❖ Yesterday, **Heat wave to severe heat wave conditions** prevailed in many pockets of West Rajasthan and at isolated pockets over East Rajasthan.
- ❖ **Minimum Temperature Departures (as on 22-05-2025):** Minimum temperatures were **markedly above normal (> 5.1°C)** at a few places over Gujarat Region; at isolated places over Assam & Meghalaya, Bihar, West Uttar Pradesh, West Rajasthan, East Rajasthan, East Madhya Pradesh and Saurashtra & Kutch; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Sub Himalayan West Bengal & Sikkim, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, West Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal. **above normal (1.6°C to 3.0°C)** at a few places over Andaman & Nicobar Islands; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Uttarakhand, Konkan & Goa and Madhya Maharashtra and **near normal (-1.5°C to 1.5°C)** at most places over Arunachal Pradesh, South Interior Karnataka, Kerala & Mahe and Lakshadweep; at a few places over East Uttar Pradesh, Rayalaseema and North Interior Karnataka; at isolated places over Gangetic West Bengal, Jharkhand, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam. Yesterday, the **lowest minimum temperature of 18.2°C** was reported at **Meerut (West Uttar Pradesh)** over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 22-05-2025):** Maximum Temperature were **markedly above normal (> 5.1°C)** at Many places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad; at Isolated places over Himachal Pradesh and Tamil Nadu, Puducherry & Karaikal. **appreciably above normal (3.1°C to 5.0°C)** at Most places over West Rajasthan; at Few places over Arunachal Pradesh; at Isolated places over West Uttar Pradesh, East Rajasthan and Saurashtra & Kutch. **above normal (1.6°C to 3.0°C)** at Few places over Gujarat Region and Lakshadweep; at Isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal and East Madhya Pradesh. **near normal (-1.5°C to 1.5°C)** at Most places over Andaman & Nicobar Islands; at Few places over Nagaland, Manipur, Mizoram & Tripura, Odisha, West Madhya Pradesh, Konkan & Goa and Kerala & Mahe; at Isolated places over Bihar, East Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab and Coastal Andhra Pradesh & Yanam. Yesterday, the **highest maximum temperature of 47.3°C** was reported at **Sri Ganganagar (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

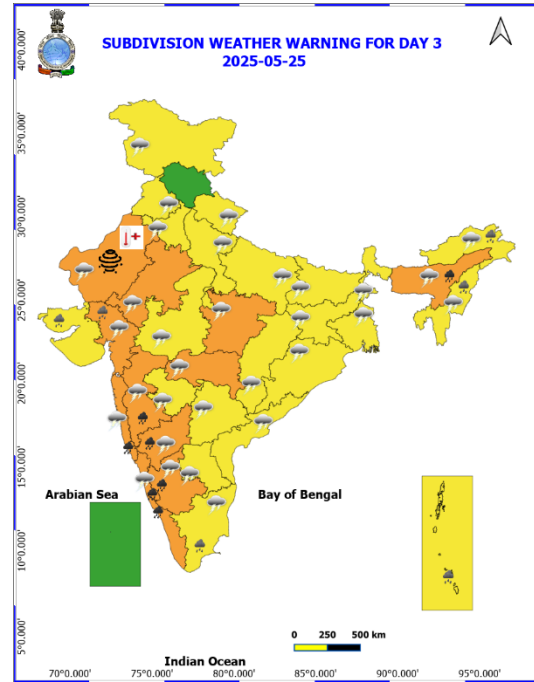
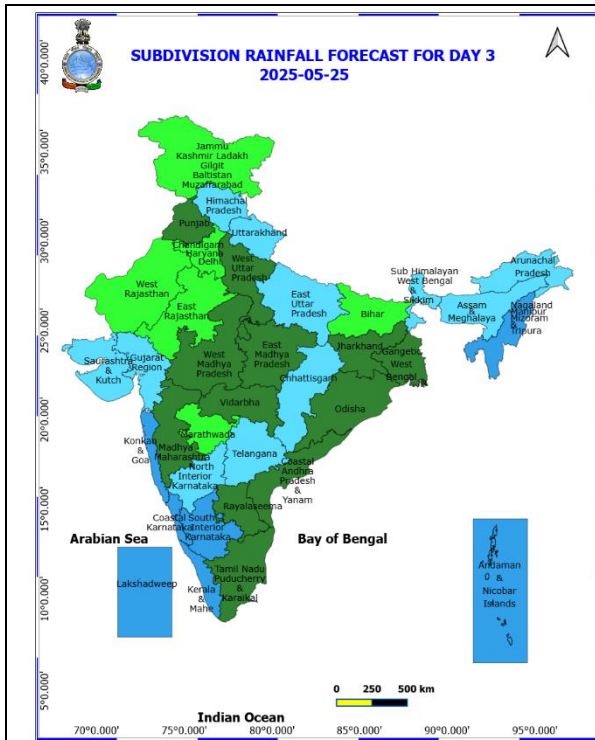
- ❖ **The Northern Limit of Monsoon continues to pass through 5°N/60°E, 6°N/65°E, 7°N/70°E, 7°N/75°E, 10°N/81°E, 13°N/84.5°E, 16°N/88°E, 19.5°N/91°E and 23°N/95°E.**
- ❖ The conditions are likely to become favourable for Monsoon onset over Kerala during next 2 days.
- ❖ The conditions are also likely to become favourable for further advance of southwest Monsoon over some more parts of South Arabian Sea, remaining parts of Maldives and Comorin area; some parts of Lakshadweep area, Kerala, Karnataka, Tamil Nadu; some more parts South & Central Bay of Bengal, North Bay of Bengal and some parts of Northeastern states during the same period.
- ❖ The **low-pressure** area over Eastcentral Arabian Sea off south Konkan-Goa coasts lay as a **well marked low-pressure** area over Eastcentral Arabian Sea off south Konkan coast at 0530 hrs IST of today, the 23rd May 2025. It is likely to move nearly northwards and intensify further into a depression during next 24 hours.
- ❖ The **trough** now runs from the cyclonic circulation associated with the **well marked low-pressure** area over Eastcentral Arabian Sea off south Konkan coast to south Chhattisgarh across south Madhya Maharashtra, south Marathwada, and north Telangana between 1.5 & 5.8 km above mean sea level.
- ❖ The **upper air cyclonic circulation** over Punjab & neighbourhood now lies over south Haryana & neighbourhood at 1.5 km above mean sea level.
- ❖ The **upper air cyclonic circulation** over northeast Madhya Pradesh adjoining southeast Uttar Pradesh at 1.5 km above mean sea level persists.
- ❖ The **trough** now runs from north Punjab to central parts Madhya Pradesh across **cyclonic circulation** over south Haryana & the **upper air cyclonic circulation** over northeast Madhya Pradesh adjoining southeast Uttar Pradesh at 1.5 km above mean sea level.
- ❖ The **upper air cyclonic circulation** over northeast Assam between 1.5 & 3.1 km above mean sea level persists.
- ❖ Another **low-pressure area** is likely to form over westcentral and adjoining North Bay of Bengal around 27th May. It is likely to become more marked during subsequent 2 days.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 30th May, 2025)



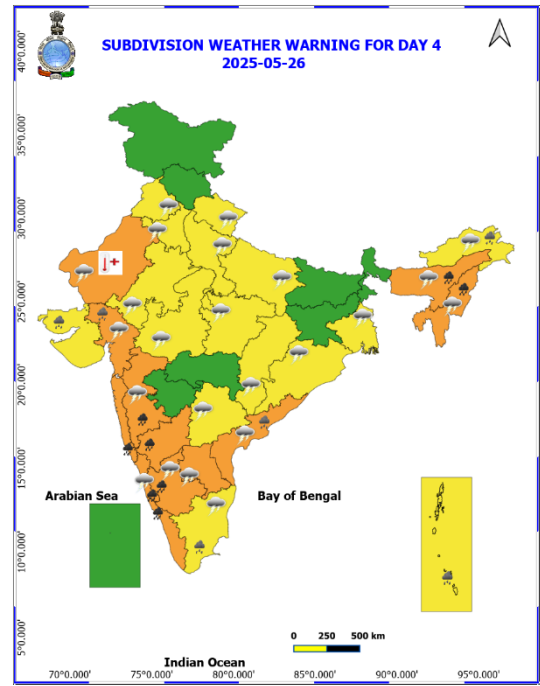
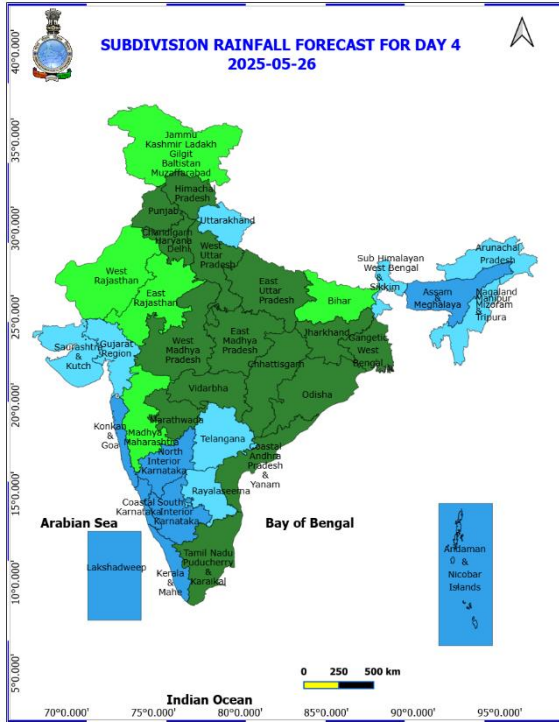
23rd May (Day 1)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Konkan & Goa.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Coastal Karnataka and Madhya Maharashtra.
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Gangetic West Bengal, Gujarat State, Interior Karnataka, Jharkhand, Kerala & Mahe, Lakshadweep, Marathwada, north Coastal Andhra Pradesh & Yanam and Uttarakhand.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Himachal Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Himachal Pradesh, Jharkhand, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Marathwada, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Odisha, Bihar, Uttarakhand and West Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over East Rajasthan, Gujarat State, Kerala & Mahe, North Interior Karnataka, Telangana, Uttar Pradesh and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Coastal Karnataka, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Punjab, South Interior Karnataka and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh.
- ❖ **Dust Storm** very likely at isolated places over West Rajasthan.
- ❖ **Heat wave to severe heat wave conditions** in isolated places of West Rajasthan.
- ❖ **Heat Wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Punjab and Rajasthan.
- ❖ **Hot and Humid weather** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Warm Night conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and West Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast and adjoining parts of southwest and west central Arabian Sea; **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** prevailing along and off south Gujarat and adjoining northeast Arabian Sea, along and off Kerala coast, over Lakshadweep area, over Gulf of Mannar and adjoining Comorin area, along and off Andhra Pradesh coast and adjoining sea area; **Squally weather with wind speed 40 kmph to 50 kmph gusting to 60 kmph** along and off Konkan, Goa, Karnataka coasts, over some parts of eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.



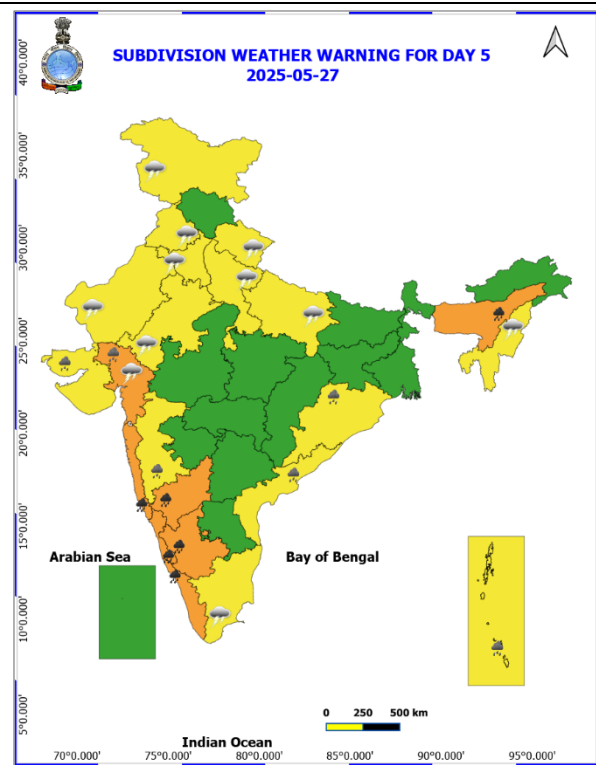
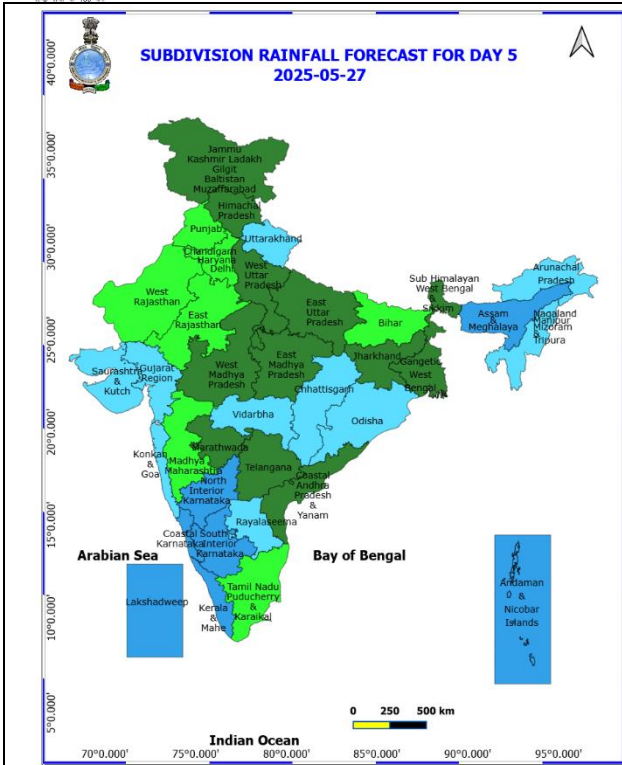
25th May (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Costal Karnataka, Interior Karnataka, Kerala & Mahe, Konkan & Madhya Maharashtra.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Gujarat State, Nagaland, Manipur, Mizoram and Tripura and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Bihar, East Madhya Pradesh, East Rajasthan, Gujarat Region and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andhra Pradesh, Chhattisgarh, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Konkan & Goa, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram and Tripura, North Interior Karnataka, Odisha, Punjab, Telangana, Uttar Pradesh, Uttarakhand, West Madhya Pradesh and West Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya, Costal Karnataka, South Interior Karnataka and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ **Dust Storm** likely at isolated places over West Rajasthan.
- ❖ **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 and over many parts of southwest Arabian Sea and adjoining parts of westcentral, southeast & eastcentral Arabian Sea; **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** prevailing along and off along and off Kerala, Karnataka coasts over Lakshadweep area and adjoining Maldives area, adjoining southeast Arabian Sea, over Gulf of Mannar and adjoining Comorin area, along and off Andhra Pradesh coast and adjoining sea area, over Andaman Sea; **Squally weather with wind speed 40 kmph to 50 kmph gusting to 60 kmph** along and off Gujarat coast and some parts of northeast Arabian Sea, along and off Konkan, Goa coasts, over eastcentral Arabian Sea and adjoining parts; **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** prevailing over many parts of eastcentral Arabian Sea; **Squally weather with wind speed 50 kmph to 60 kmph gusting to 70 kmph** prevailing over central parts of eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.



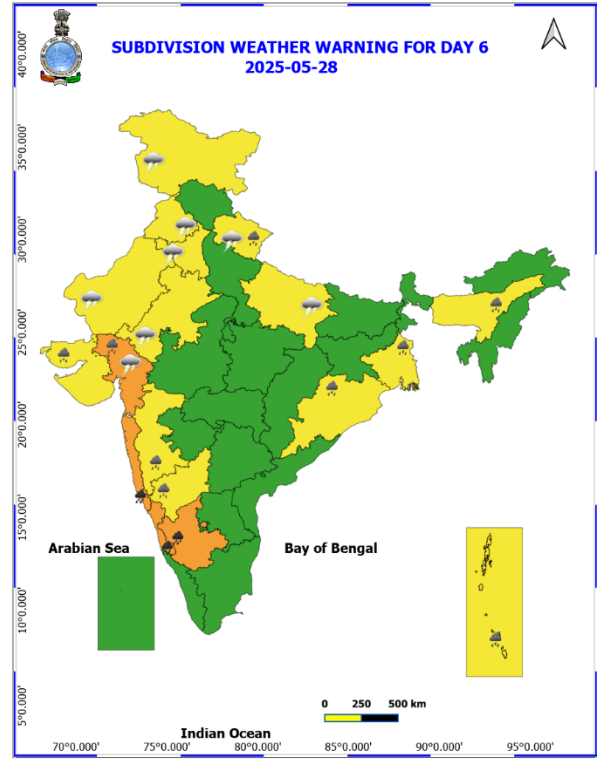
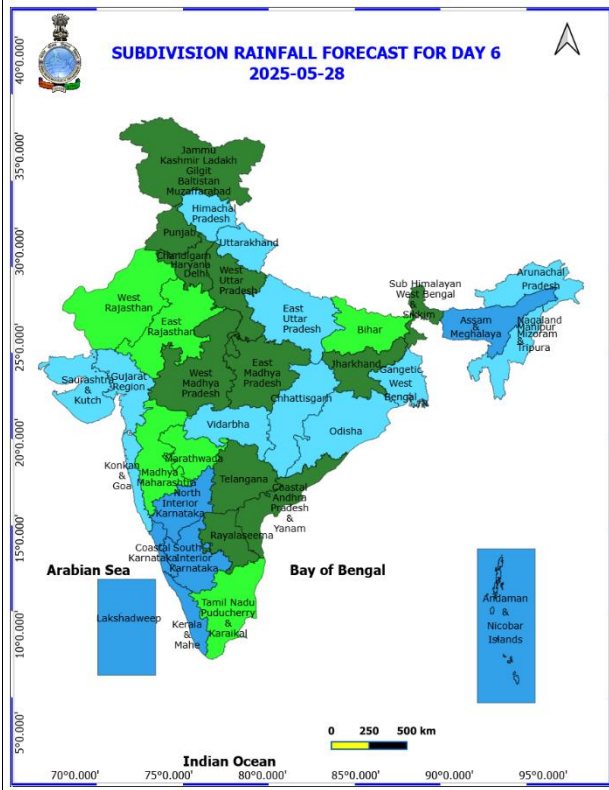
26th May (Day 4)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Costal Karnataka, Interior Karnataka, Kerala & Mahe, Konkan & Goa, Madhya Maharashtra and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh, Gujarat State and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Andhra Pradesh and Gujarat Region.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Rajasthan, Telangana, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya, Costal Karnataka and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Madhya Maharashtra and Tamil Nadu Puducherry & Karaikal.
- ❖ **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 and over many parts of southwest Arabian Sea and adjoining parts of westcentral Arabian Sea, many parts of southeast & eastcentral Arabian Sea; **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** prevailing along and off along and off Kerala, Karnataka coasts over Lakshadweep area and adjoining Maldives area, adjoining southeast Arabian Sea, over Gulf of Mannar and adjoining Comorin area, along and off Andhra Pradesh coast and adjoining sea area, over Andaman Sea; **Squally weather with wind speed 40 kmph to 50 kmph gusting to 60 kmph** along and off north Gujarat coast and some parts of northeast Arabian Sea, along and off Goa coast, over southern parts of eastcentral Arabian Sea; **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** prevailing over many parts of eastcentral Arabian Sea, along and off south Gujarat, Konkan coasts; **Squally weather with wind speed 55 kmph to 65 kmph gusting to 75 kmph** prevailing over northeastern parts of eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.



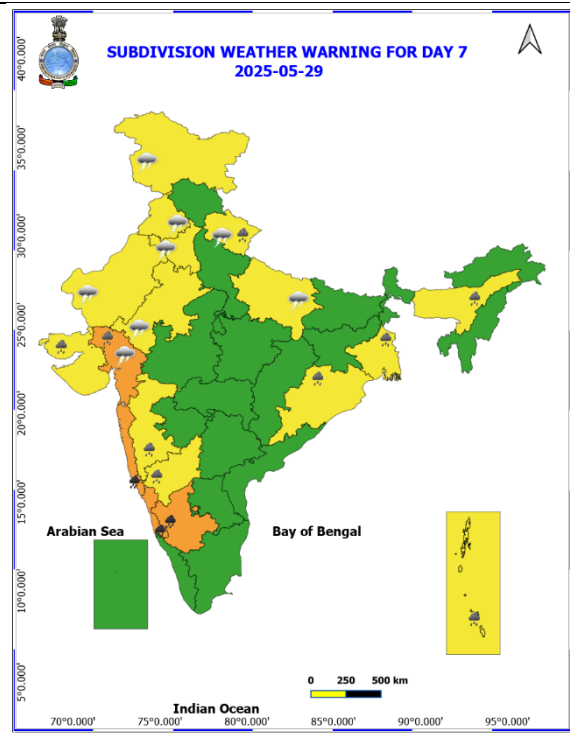
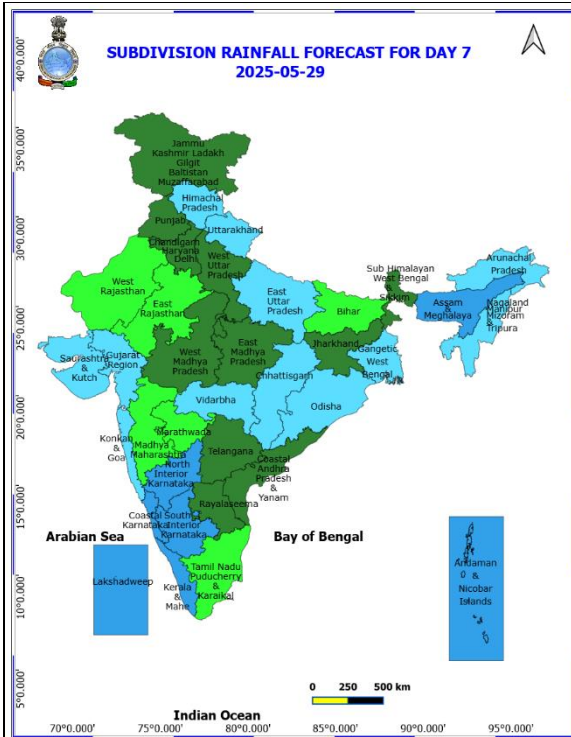
27th May (Day 5)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Costal Karnataka, Interior Karnataka, Kerala & Mahe and Konkan & Goa.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh, Gujarat State, Madhya Maharashtra and Odisha.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Gujarat Region.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Punjab, Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Tamil Nadu Puducherry & Karaikal.



28th May (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Costal Karnataka, Konkan & Goa and South Interior Karnataka.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Gangetic West Bengal, Gujarat State, Madhya Maharashtra, North Interior Karnataka, Odisha and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Gujarat Region.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over East Uttar Pradesh, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Rajasthan and Uttarakhand.



29th May (Day 7)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Karnataka, Konkan & Goa and South Interior Karnataka.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Gangetic West Bengal, Gujarat State, Madhya Maharashtra, North Interior Karnataka, Odisha and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Gujarat Region.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over East Uttar Pradesh, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Rajasthan and Uttarakhand.

Weather Outlook for subsequent 3 days (During 30th May- 01st June, 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

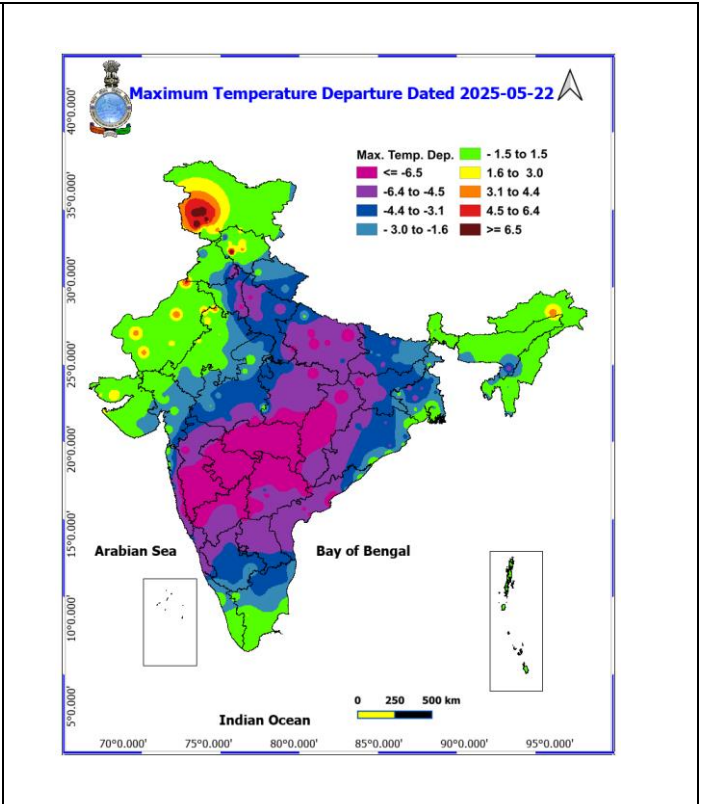
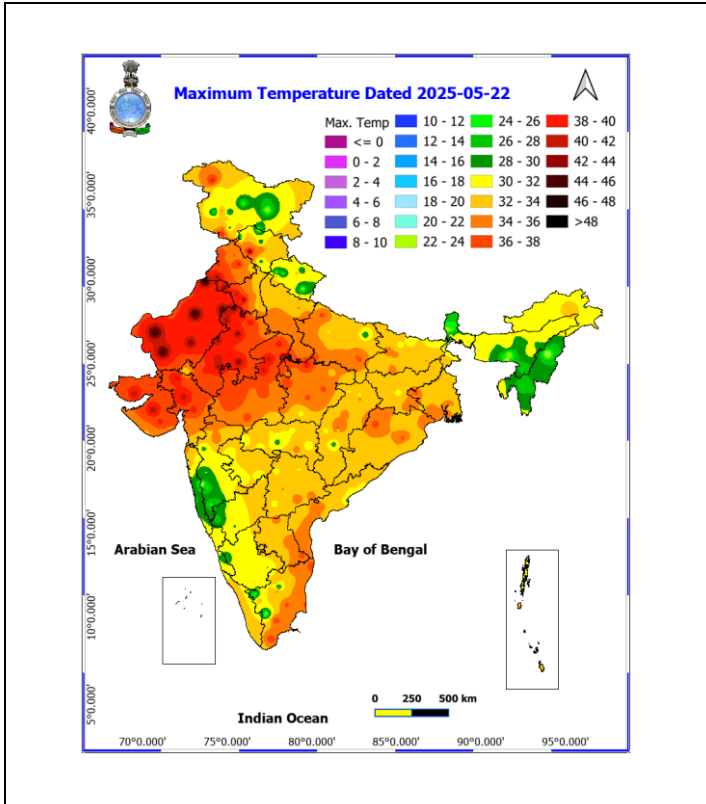


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

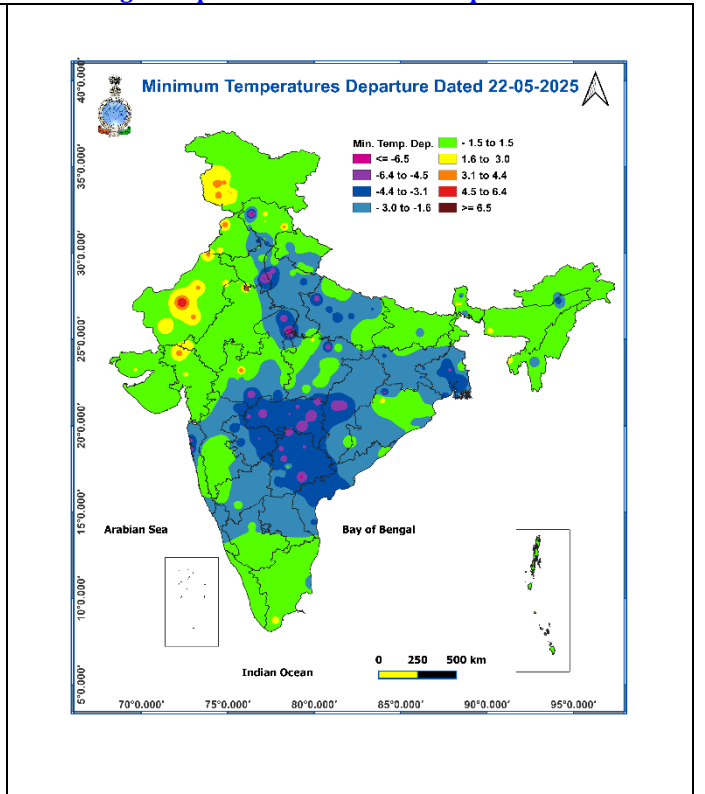
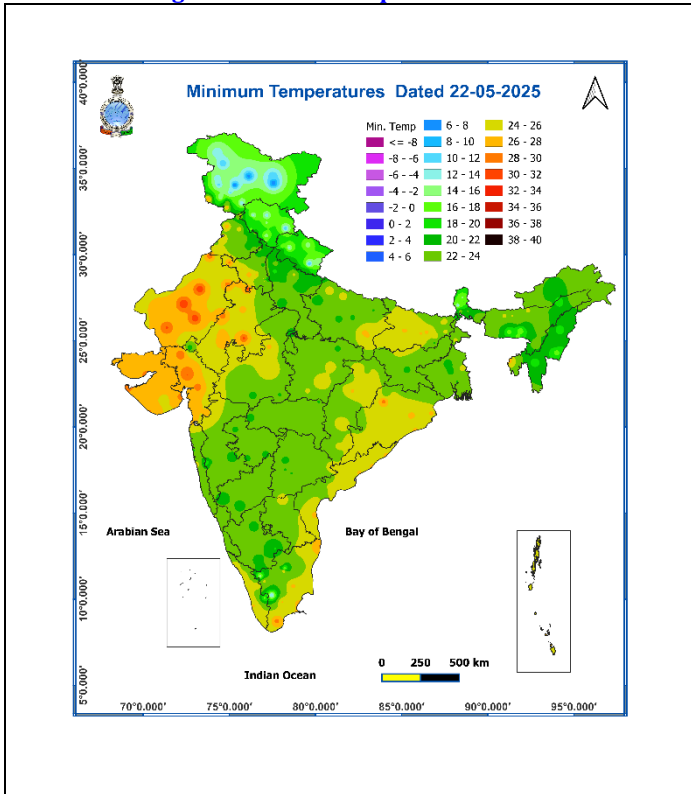
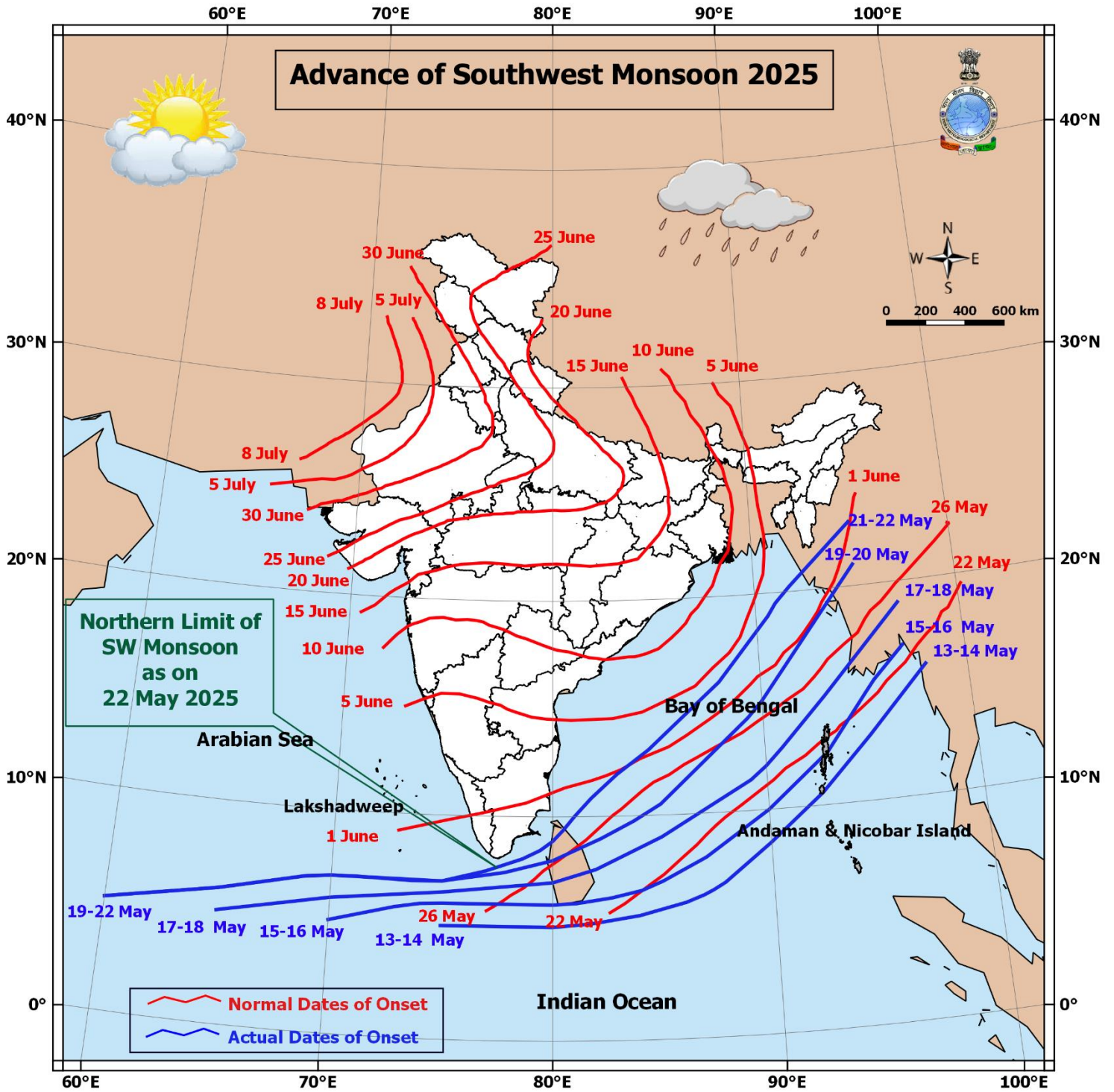
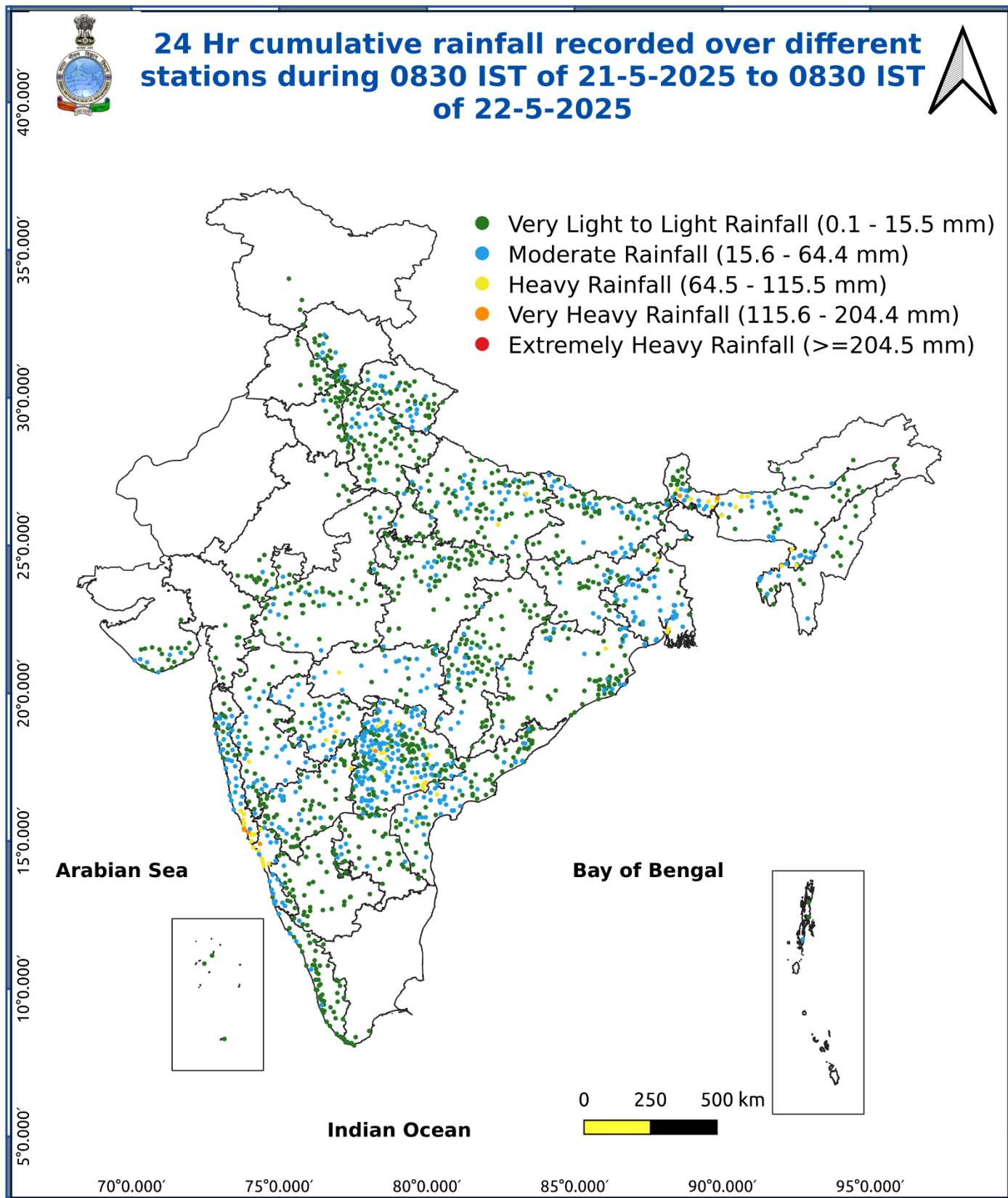


Fig. 5: Advance of Southwest Monsoon 2025



* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599
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Fig. 6: Accumulated Rainfall (mm) during past 24 hours



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(Service to the Nation since 1875)

Impact & Action Suggested due to Extremely and heavy to very heavy rainfall over (For Red & Orange colour warning areas of Peninsular India & Maharashtra)

- ❖ **Extremely heavy rainfall** at isolated places over Konkan & Goa during 23rd-24th; Coastal Karnataka, Madhya Maharashtra on 24th May.
- ❖ **Isolated very heavy rainfall** over Kerala, Karnataka, Konkan & Goa during 23rd-28th; Madhya Maharashtra during 23rd-26th 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 kutcha 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 Uttarakhand during 23rd-24th, West Rajasthan, Himachal Pradesh on 23rd & 24th; East Rajasthan on 25th & 26th may. East Madhya Pradesh during 23rd-25th; West Madhya Pradesh, Jharkhand, Odisha, Bihar, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada on 23rd and over Gujarat state during 25th-28th May.
- ❖ **Isolated hailstorm** over Himachal Pradesh on 23rd & 24th 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 kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

*** Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".**
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599
(Service to the Nation since 1875)

- 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 to severe heat wave conditions in isolated pockets of West Rajasthan during 23rd-24th May.

Heat wave conditions very likely in isolated pockets of Jammu, Punjab, Haryana Chandigarh, north Madhya Pradesh on 23rd; East Rajasthan during 23rd-24th and West Rajasthan on 25th & 26th May.

Red alert Areas

- Very high likelihood of developing heat illness and heat stroke in all ages. ➤ Extreme care needed for vulnerable people.

Orange alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure- keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

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 / Hailstorms / Gusty Winds / Heat Wave

- In **Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Jharkhand, Bihar, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujrat, Tamil Nadu, Kerala, Karnataka, Andhra Pradesh and Telangana**, drain out excess water and ensure proper drainage in fields with standing crops and vegetables.
- In **Uttarakhand and East Uttar Pradesh**, 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, Punjab, Haryana, South Uttar Pradesh, Rajasthan and North Madhya Pradesh**, 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.

Flash Flood Guidance:

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 24-05-2025 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

Coastal Karnataka - Udupi and Uttar Kannada districts.

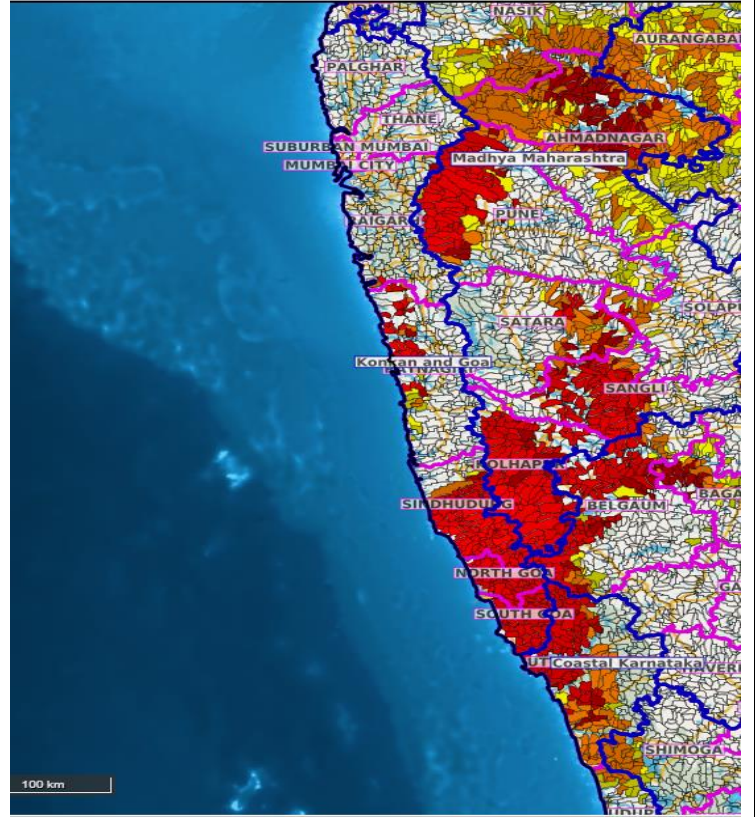
North Interior Karnataka - Bagalkot and Belgaum districts.

Konkan & Goa - North Goa, South Goa, Ratnagiri and Sindhudurg districts.

Madhya Maharashtra - Ahmadnagar, Kolhapur, Pune, Sangli and Satara districts.

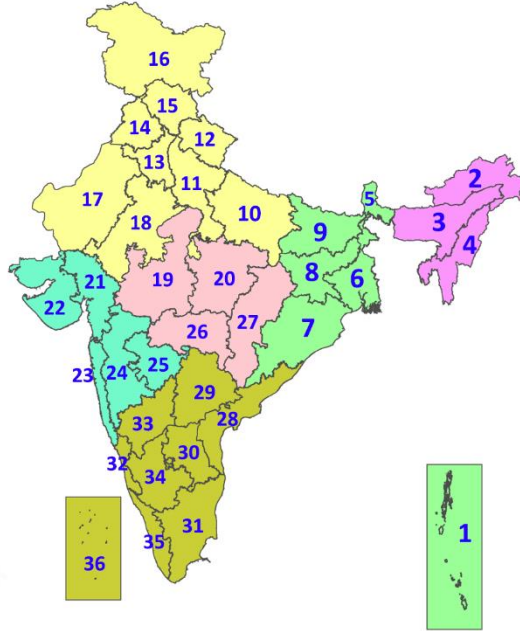
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.

Product: GFS FFR | Timescale: 24-hr | Region: "REGI
Product Date: 2025-05-23 00:00 UTC | Valid Date: 2025-05-2



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)