



Tuesday, May 20, 2025  
Time of Issue: 0800 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 30-50 kmph** likely over Kerala & Mahe, Lakshadweep, 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 during next 7 days.
- ❖ **Isolated heavy to very heavy rainfall** likely over Kerala & Mahe, Karnataka during 20<sup>th</sup>-25<sup>th</sup>; Rayalaseema during 20<sup>th</sup>-21<sup>st</sup>; Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu, Puducherry & Karaikal on 20<sup>th</sup> May.
- ❖ **Extremely heavy rainfall** at isolated places over Karnataka on 20<sup>th</sup> & 21<sup>st</sup> May.

#### **West India:**

- ❖ Fairly widespread to widespread light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Konkan & Goa, Madhya Maharashtra during next 7 days and isolated to scattered rainfall over Gujarat State, Marathawada during 22<sup>nd</sup>-24<sup>th</sup> May.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Konkan & Goa, Madhya Maharashtra during 20<sup>th</sup>-23<sup>rd</sup> and Marathawada during 20<sup>th</sup>-21<sup>st</sup> May.
- ❖ **Isolated heavy to very heavy rainfall** very likely over south Madhya Maharashtra, Konkan & Goa during 20<sup>th</sup>-25<sup>th</sup> May and isolated heavy rainfall over Marathawada during 20<sup>th</sup>-21<sup>st</sup> May.
- ❖ **Extremely heavy rainfall** very likely at isolated places over Konkan on 21<sup>st</sup> May.

#### **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 on 20<sup>th</sup>; Assam & Meghalaya during 20<sup>th</sup>-22<sup>nd</sup>, Mizoram & Tripura on 20<sup>th</sup> with isolated **very heavy rainfall** over Assam & Meghalaya on 20<sup>th</sup> May.

#### **East & Central India:**

- ❖ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-60 kmph** likely over West Bengal & Sikkim, Jharkhand, Andaman & Nicobar Islands during next 7 days and Bihar during 20<sup>th</sup>-21<sup>st</sup>; **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha during next 7 days.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Jharkhand, Sub-Himalayan West Bengal & Sikkim on 20<sup>th</sup>; Bihar during 20<sup>th</sup>-21<sup>st</sup>; Chhattisgarh on 21<sup>st</sup> May.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim, Bihar during 20<sup>th</sup>-22<sup>nd</sup>; Jharkhand on 20<sup>th</sup>; with **very heavy rainfall** over Sub-Himalayan West Bengal & Sikkim on 20<sup>th</sup> May 2025.

#### **Northwest India:**

- ✓ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Himachal Pradesh on 20<sup>th</sup> and Uttarakhand on 20<sup>th</sup> & during 23<sup>rd</sup>-25<sup>th</sup> May.
- ✓ Isolated light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over plains of Northwest India during 23<sup>rd</sup>-25<sup>th</sup> May.
- ✓ **Isolated hailstorm** very likely over Uttarakhand on 20<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** likely over Uttarakhand during 23<sup>rd</sup>-25<sup>th</sup> May.
- ✓ **Duststorm (40-50 kmph)** very likely over West Rajasthan during 20<sup>th</sup>-22<sup>nd</sup> May.

#### **Maximum Temperature Forecast:**

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

## Main Weather Observations:

- ❖ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Tripura**: Kailashahar AP (dist Unakoti) 7; **Tamilnadu**: Tiruppattur (dist Tirupathur) 3, Dharmapuri (dist Dharmapuri) 2; **East Madhya Pradesh**: Sidhi (dist Sidhi) 3; **Meghalaya**: Shillong (dist East Khasi Hills) 3, Barapani (dist East Khasi Hills) 2; **Telangana**: Medak (dist Medak) 3; **Coastal Andhra Pradesh & Yanam**: Machilipatnam (dist Krishna) 2; **Lakshadweep** : Amini Divi (dist Lakshadweep) 2; **Odisha**: Bhubaneshwar-Cuttack (dist Khordha) 2; **South interior Karnataka**: Bengaluru (dist Bengaluru Urban) 2.
- ❖ Yesterday, **Heavy rainfall** at isolated places over Tripura.
- ❖ Yesterday, **Heat wave conditions** prevailed at a few places over West Rajasthan.
- ❖ **Minimum Temperature Departures (as on 19-05-2025)**: Minimum Temperature were **markedly above normal (> 5.1°C)** at many places over East Madhya Pradesh; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan and West Madhya Pradesh; at isolated places over Assam & Meghalaya, Bihar, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Gujarat Region, Saurashtra & Kutch and Madhya Maharashtra; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Himachal Pradesh; at isolated places over Gangetic West Bengal, East Rajasthan, Konkan & Goa 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, Sub Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Rayalaseema and near normal over rest parts of the country. **The lowest minimum temperature** of 19.1°C was reported at **Bangalore (South Interior Karnataka)** over the Plains of country (Fig. 4).
- ❖ **Maximum Temperature Departures (as on 19-05-2025)**: Maximum Temperature were **markedly above normal (> 5.1°C)** at Isolated places over West Uttar Pradesh and East Madhya Pradesh. **appreciably above normal (3.1°C to 5.0°C)** at Few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at Isolated places over Gangetic West Bengal, East Uttar Pradesh, Haryana-Chandigarh-Delhi, East Rajasthan and Konkan & Goa. **above normal (1.6°C to 3.0°C)** at Many places over Himachal Pradesh and West Rajasthan; at Few places over Arunachal Pradesh; at Isolated places over Odisha, Uttarakhand, West Madhya Pradesh, Saurashtra & Kutch and Kerala & Mahe. **near normal (-1.5°C to 1.5°C)** at Many places over Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat Region, Coastal Karnataka and Lakshadweep; at Most places over Nagaland, Manipur, Mizoram & Tripura and Punjab; at Isolated places over Sub Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Madhya Maharashtra, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka (Fig. 2). Yesterday, the highest **maximum temperature of 46.6°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/60°E, 6°N/65°E, 7°N/70°E, 7°N/75°E, 8°N/80°E, 10.5°N/85°E, 15°N/90°E and 21°N/95°E.
- ❖ Conditions are favorable for further advance of southwest Monsoon over some more parts of south Arabian Sea, remaining parts of Maldives & Comorin area; some more parts of South Bay of Bengal; some more parts of central Bay of Bengal, and some more parts of northeast Bay of Bengal during next 2-3 days.
- ❖ An **upper air cyclonic circulation** is likely to form over eastcentral Arabian Sea off Karnataka coast around 21<sup>st</sup> May. Under its influence, a **Low-pressure area** is likely to form over the same region around 22<sup>nd</sup> May. Thereafter, it is likely to move northwards and intensify further.
- ❖ The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 80°E to the north of Lat. 30°N.
- ❖ The **upper air cyclonic circulation** over south Haryana & adjoining northeast Rajasthan now lies over northeast Rajasthan & adjoining south Haryana at 0.9 km above mean sea level.
- ❖ An **upper air cyclonic circulation** lies over central Pakistan & adjoining Punjab and extends upto 1.5 km above mean sea level.
- ❖ The east-west **trough** now runs from **cyclonic circulation** over central Pakistan & adjoining Punjab to north Bangladesh across Haryana, south Uttar Pradesh, south Bihar & north Gangetic West Bengal and extends upto 1.5 km above mean sea level.
- ❖ The **upper air cyclonic circulation** over northwest Uttar Pradesh & neighbourhood at 1.5 km above mean sea level has merged with the above trough.
- ❖ An **upper air cyclonic circulation** lies over southeast Rajasthan & adjoining north Gujarat at 0.9 km above mean sea level.
- ❖ An **upper air cyclonic circulation** lies over Vidarbha & neighbourhood at 1.5 km above mean sea level.
- ❖ The **upper air cyclonic circulation** over central Assam extending upto 1.5 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over westcentral & adjoining southwest Bay of Bengal now lies over westcentral Bay of Bengal & adjoining south Coastal Andhra Pradesh and extends upto 5.8 km above mean sea level tilting southwestwards with height.
- ❖ The **trough** now runs from southeast Bay of Bengal to North Interior Karnataka across above cyclonic circulation over westcentral Bay of Bengal & adjoining south Coastal Andhra Pradesh, Rayalaseema between 1.5 & 5.8 km above mean sea level tilting southwestwards with height.
- ❖ The **trough** from central parts of Punjab to central parts of Madhya Pradesh at 0.9 km above mean sea level has become less marked.
- ❖ The **upper air cyclonic circulation** over Madhya Maharashtra at 0.9 km above mean sea level has become less marked.
- ❖ The **trough** from above cyclonic circulation over Madhya Maharashtra to Rayalaseema across North Interior Karnataka at 0.9 km above mean sea level has become less marked.

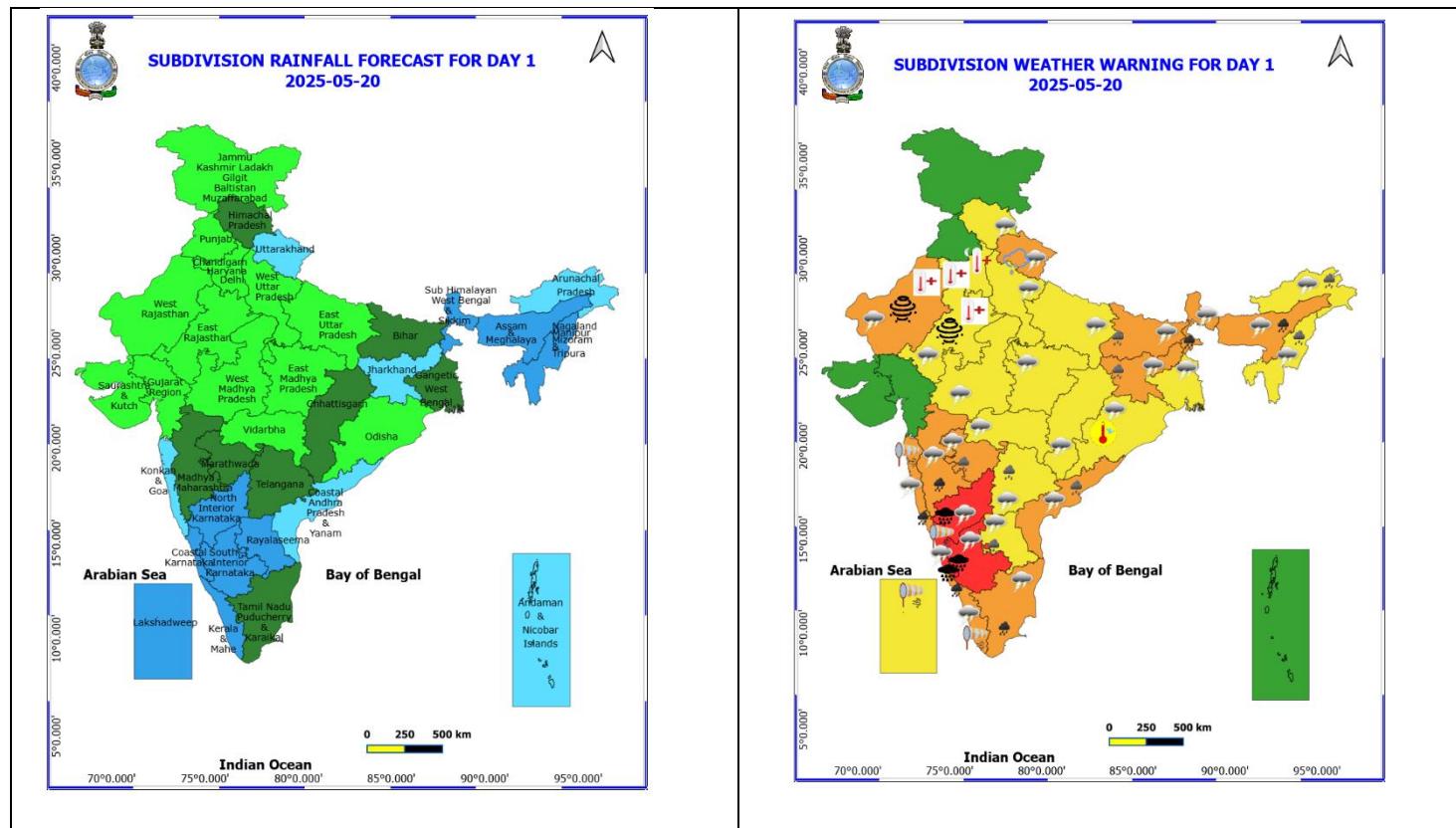
\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

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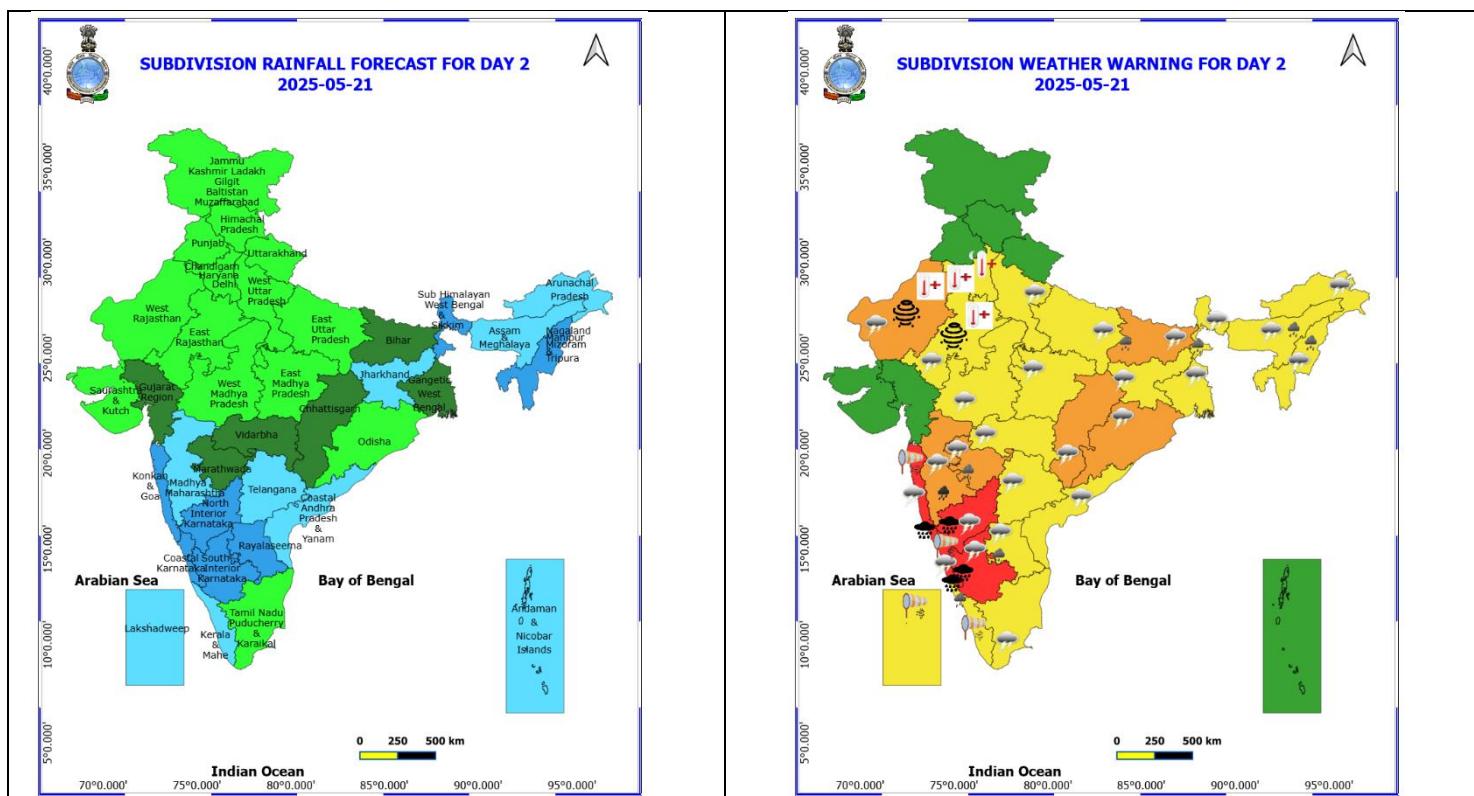
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Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 27<sup>th</sup> May, 2025)



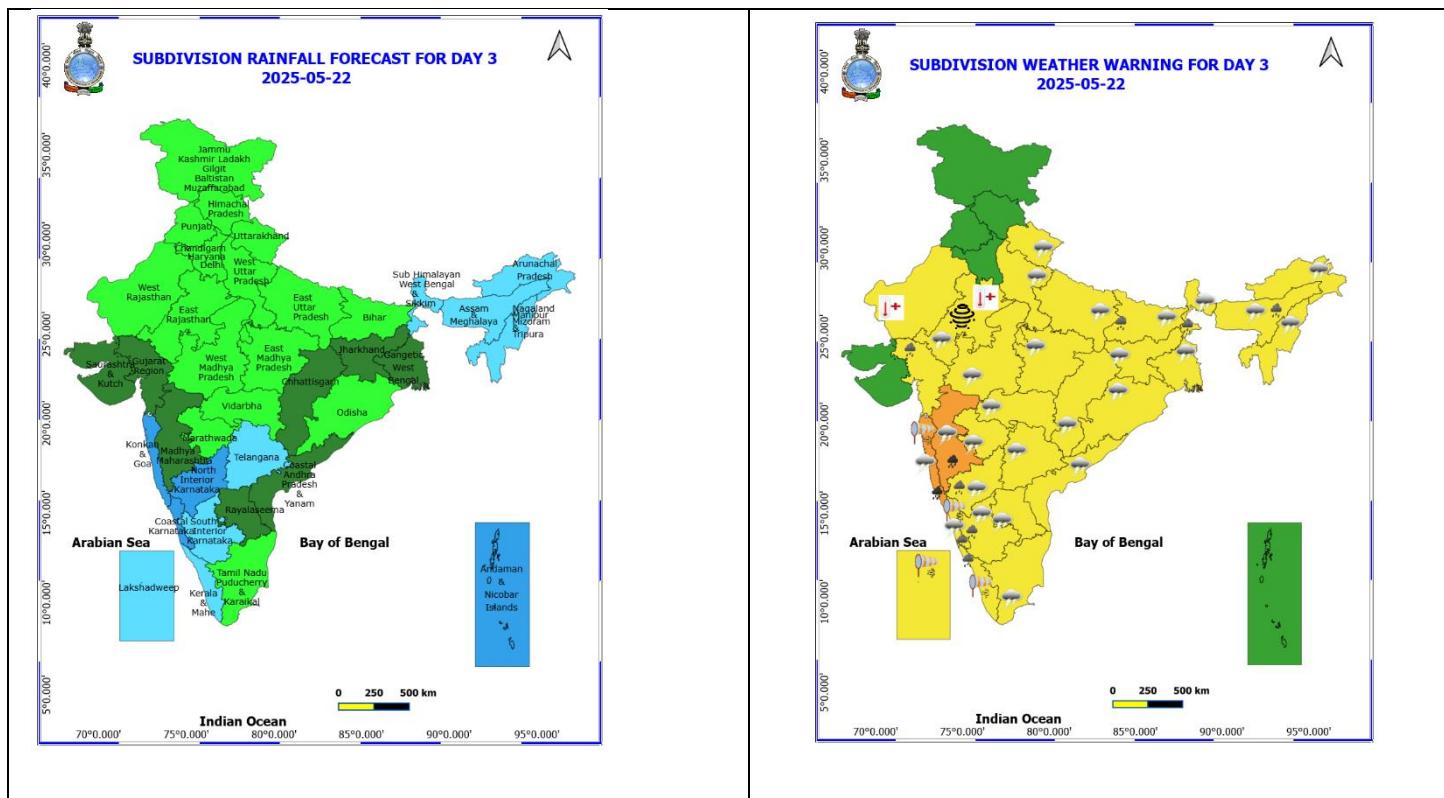
## 20th May (Day 1)

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



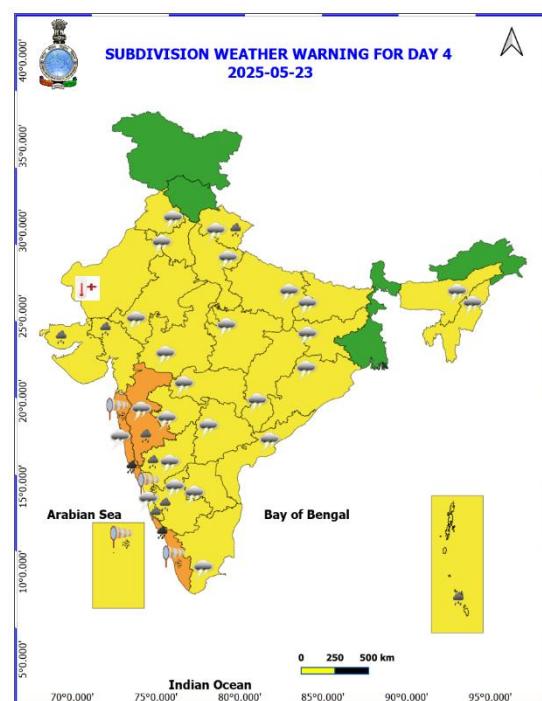
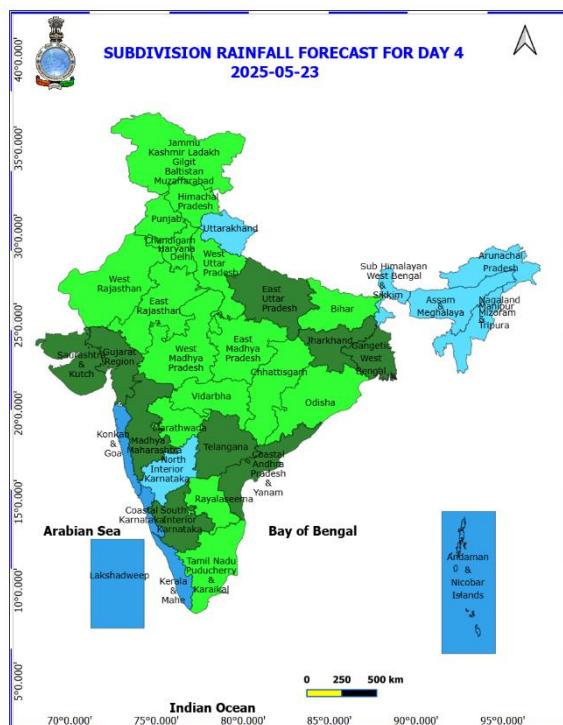
### 21<sup>st</sup> May (Day 2)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Costal Karnataka, Interior Karnataka and Konkan & Goa.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Madhya Maharashtra.
- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Bihar, Kerala & Mahe, Marathwada, Nagaland, Manipur, Mizoram and Tripura, Rayalaseema and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh, Interior Karnataka, Jharkhand, Madhya Pradesh, Rajasthan, Telangana, Uttar Pradesh and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Costal Karnataka, Nagaland, Manipur, Mizoram and Tripura, Tamil Nadu Puducherry & Karaikal and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh.
- ❖ **Dust Storm** very likely at isolated places over Rajasthan.
- ❖ **Strong Surface Winds** very likely at isolated places over Costal Karnataka, Kerala & Mahe, Konkan & Goa and Lakshadweep.
- ❖ **Heat Wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi and Rajasthan.
- ❖ **Warm Night conditions** very likely at isolated places over Haryana, Chandigarh & Delhi.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast & adjoining southwest Arabian Sea, over Gulf of Mannar and adjoining Comorin area, along and off South Sri Lanka coast; **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** prevailing along and off Konkan, Goa coasts, along and off Kerala, Karnataka coasts and adjoining Lakshadweep area. Fishermen are advised not to venture into these areas.



### 22<sup>nd</sup> May (Day 3)

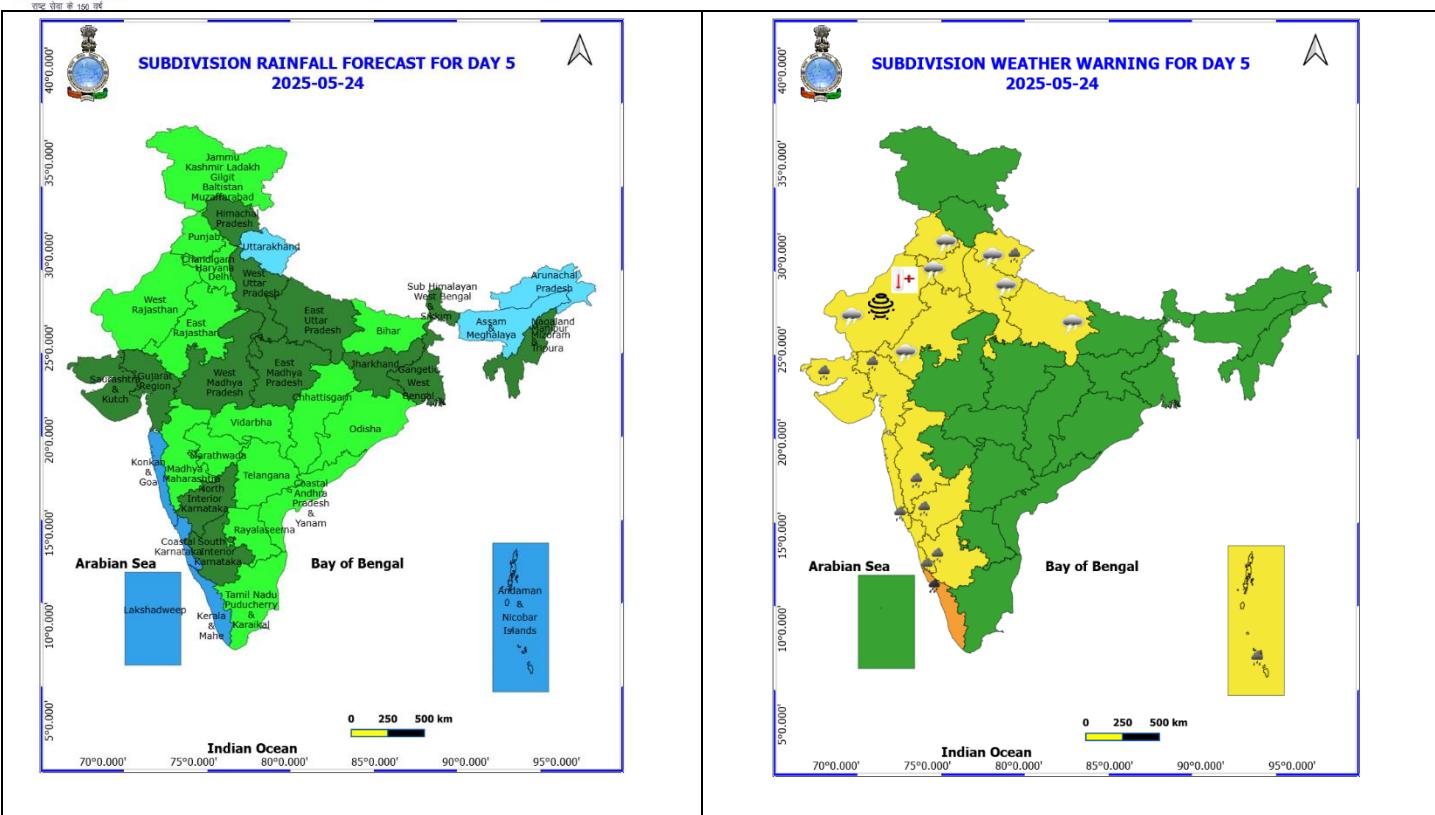
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Konkan & Goa and Madhya Maharashtra.
- ❖ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Bihar, Costal Karnataka, Gujarat Region, Interior Karnataka, Kerala & Mahe and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Konkan & Goa and Madhya Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andhra Pradesh, East Rajasthan, Jharkhand, Madhya Pradesh, Marathwada, North Interior Karnataka, Odisha, Telangana, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya, Bihar, Chhattisgarh, Costal Karnataka, Nagaland, Manipur, Mizoram and Tripura, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal, Vidarbha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh.
- ❖ **Dust Storm** likely at isolated places over East Rajasthan.
- ❖ **Strong Surface Winds** likely at isolated places over Costal Karnataka, Kerala & Mahe, Konkan & Goa and Lakshadweep.
- ❖ **Heat Wave conditions** likely at isolated places over Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast & adjoining parts of southwest Arabian Sea, over Gulf of Mannar and adjoining Comorin area, along and off South Sri Lanka coast; **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** prevailing along and off Konkan, Goa coasts, along and off Kerala, Karnataka coasts and adjoining Lakshadweep area. Fishermen are advised not to venture into these areas.



### 23<sup>rd</sup> May (Day 4)

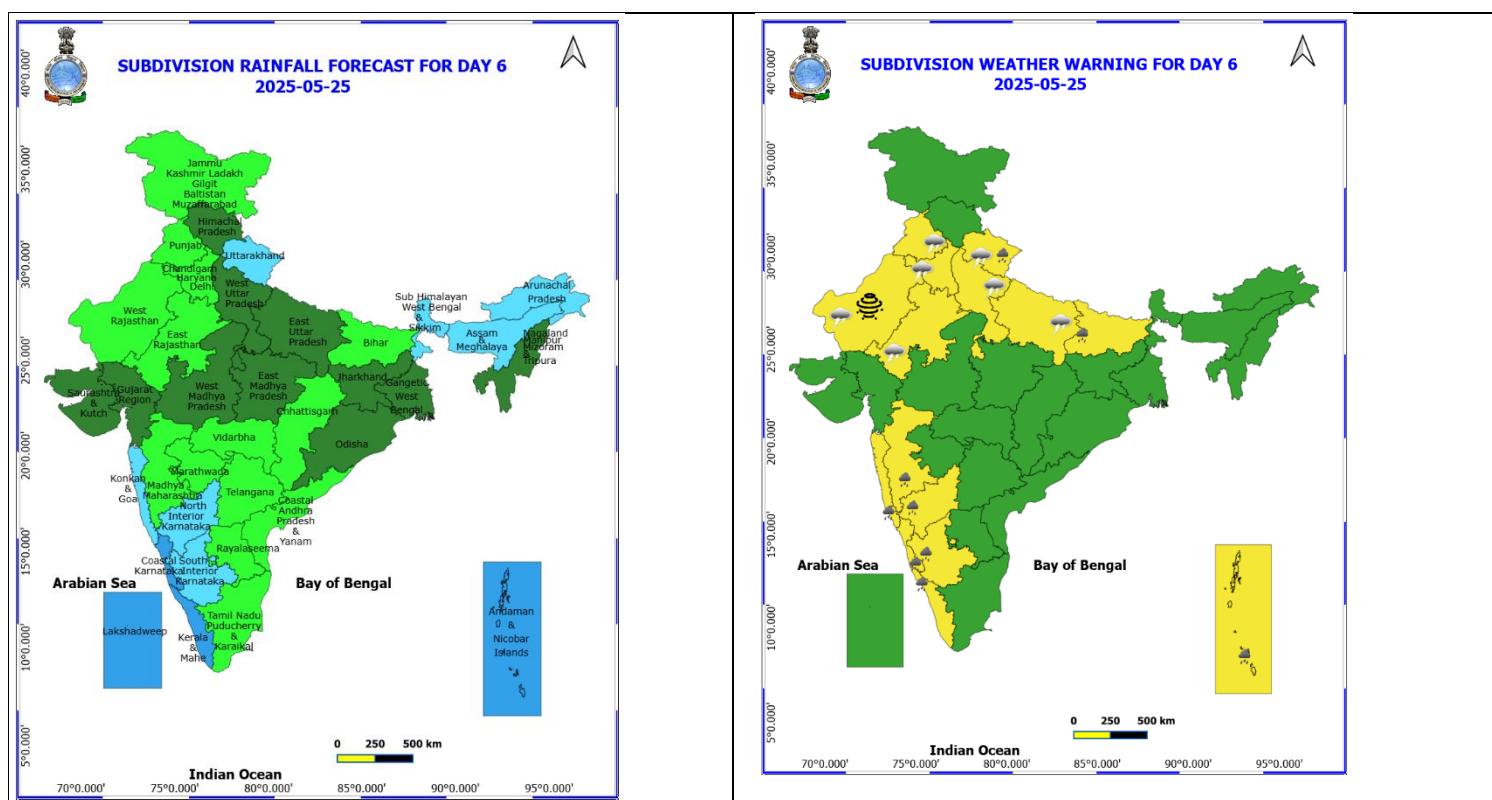
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Kerala & Mahe and Konkan & Goa.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Costal Karnataka, Gujarat State, Interior Karnataka, Madhya Maharashtra and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Konkan & Goa and Madhya Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andhra Pradesh, East Rajasthan, Jharkhand, Madhya Pradesh, Marathwada, Odisha, Telangana, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya, Bihar, Chhattisgarh, Haryana, Chandigarh & Delhi, Interior Karnataka, Nagaland, Manipur, Mizoram and Tripura, Punjab, Tamil Nadu Puducherry & Karaikal and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Costal Karnataka.
- ❖ **Strong Surface Winds** likely at isolated places over Costal Karnataka, Kerala & Mahe, Konkan & Goa 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 & adjoining parts of southwest Arabian Sea, over Gulf of Mannar and adjoining Comorin area; **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** prevailing along and off south Gujarat, Konkan, Goa coasts, along and off Kerala, Karnataka coasts and adjoining Lakshadweep Area. Fishermen are advised not to venture into these areas.



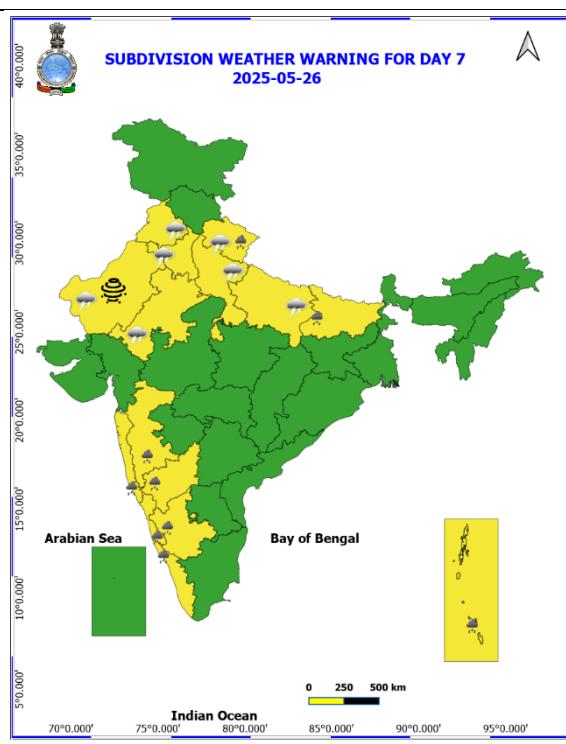
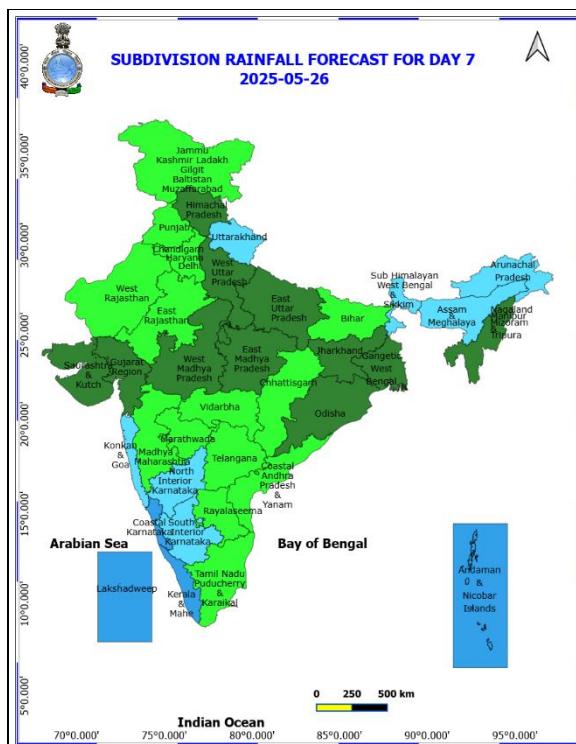
### 24th May (Day 5)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Kerala & Mahe.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Costal Karnataka, Gujarat State, Interior Karnataka, Konkan & Goa, Madhya Maharashtra and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Dust Storm** likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** likely at isolated places over West Rajasthan.



### 25th May (Day 6)

- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Bihar, Costal Karnataka, Interior Karnataka, Kerala & Mahe, Konkan & Goa, Madhya Maharashtra and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Dust Storm** likely at isolated places over West Rajasthan.



## 26<sup>th</sup> May (Day 7)

- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Bihar, Costal Karnataka, Interior Karnataka, Kerala & Mahe, Konkan & Goa, Madhya Maharashtra and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Dust Storm** likely at isolated places over West Rajasthan.

## Weather Outlook for subsequent 3 days (During 27<sup>th</sup> May- 29<sup>th</sup> 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.

\* 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.

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Fig. 1: Maximum Temperatures

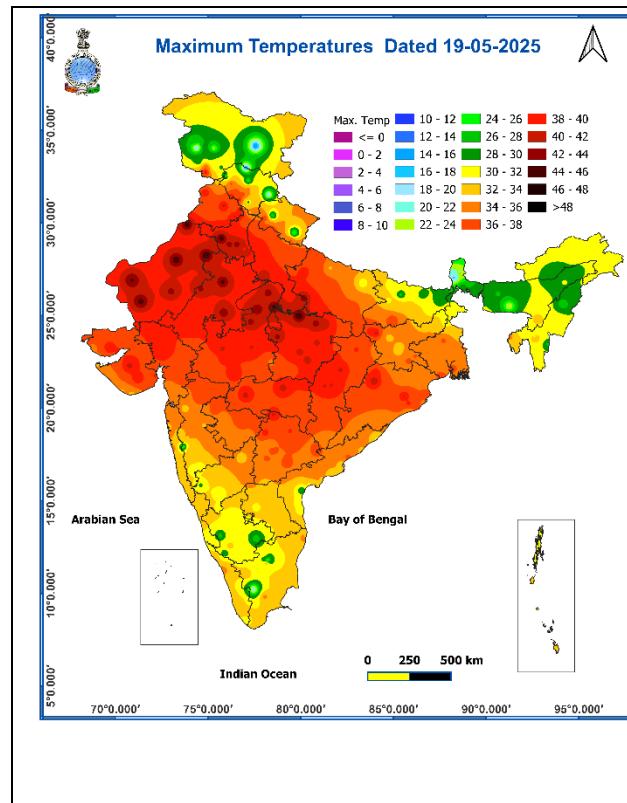


Fig. 2: Departure of Maximum Temperatures

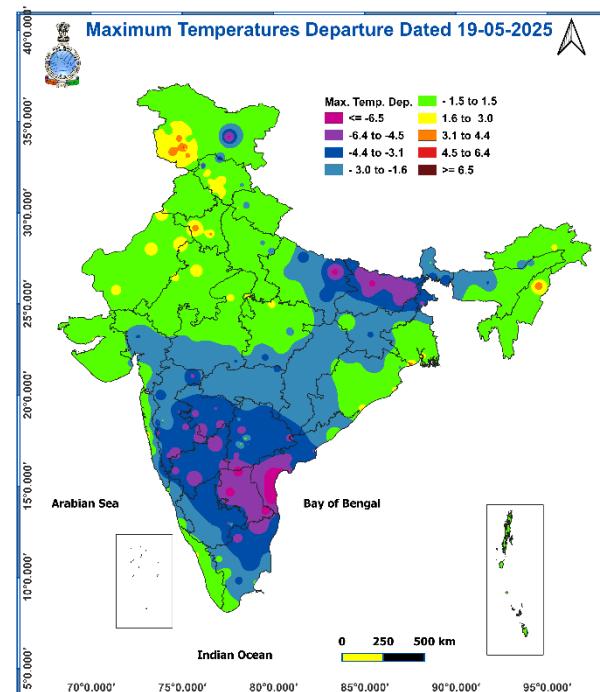


Fig. 3: Minimum Temperatures

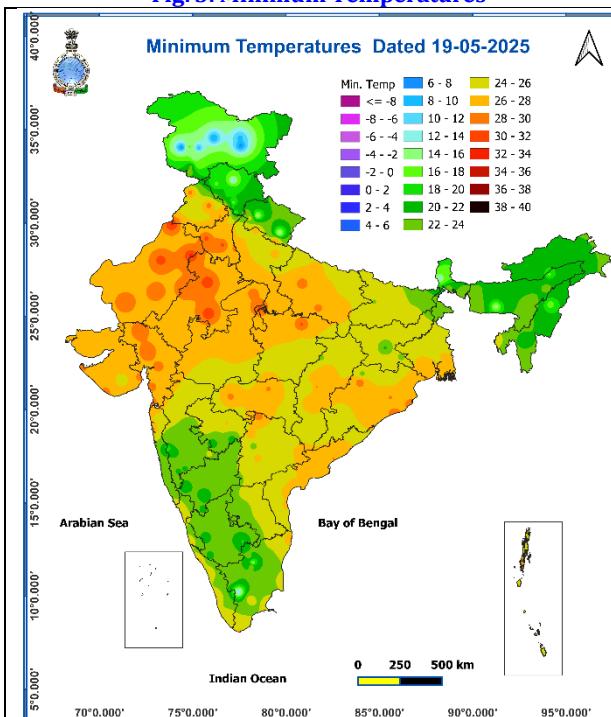
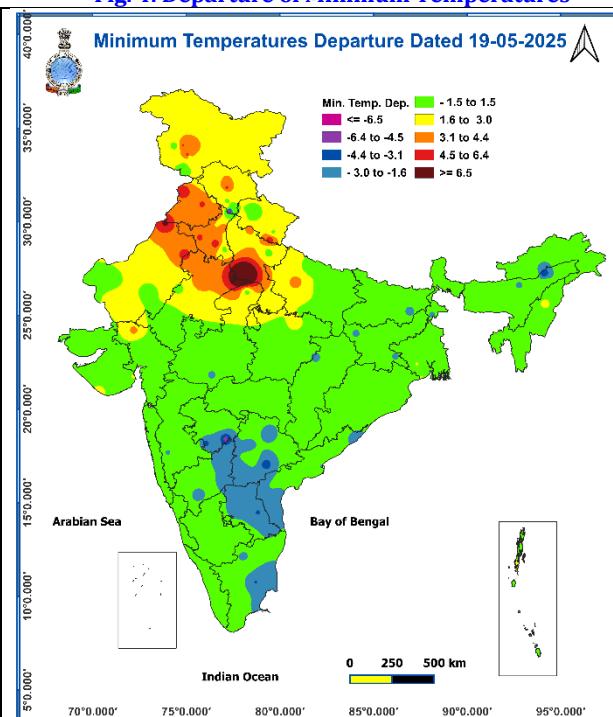
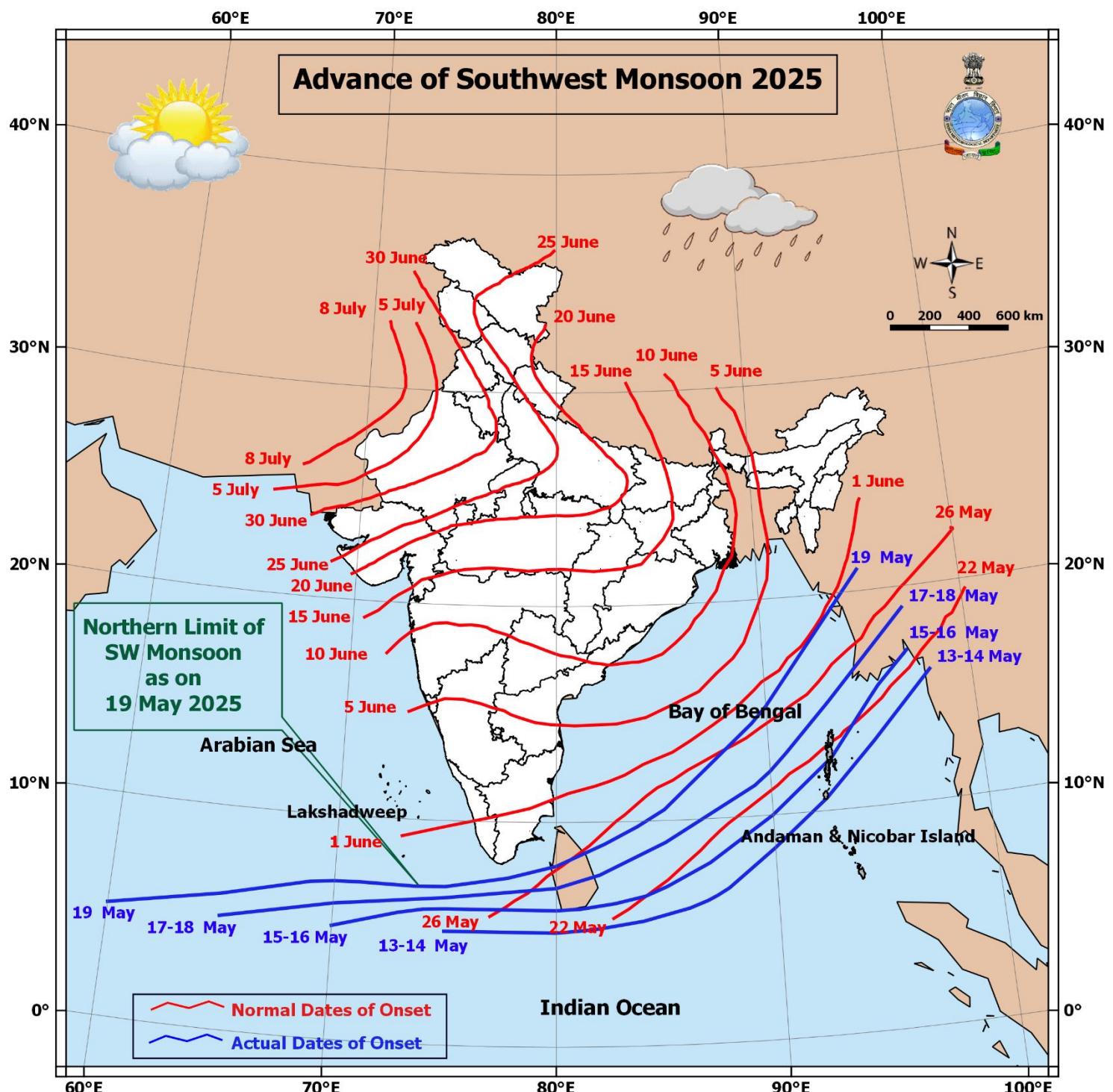


Fig. 4: Departure of Minimum Temperatures



**Fig. 5: Advance of Southwest Monsoon 2025**

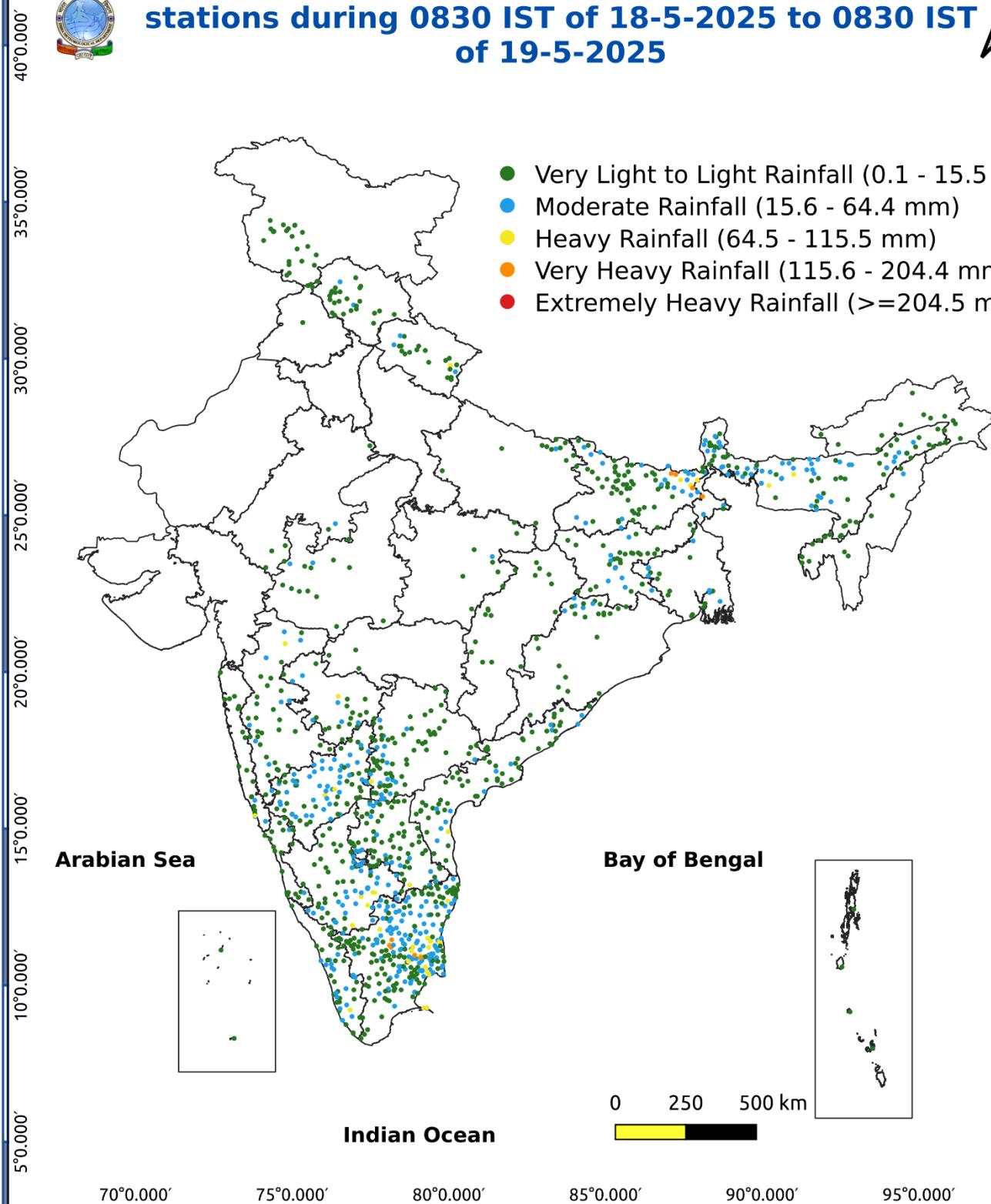


**Fig. 6: Accumulated Rainfall (mm) during past 24 hours**

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## 24 Hr cumulative rainfall recorded over different stations during 0830 IST of 18-5-2025 to 0830 IST of 19-5-2025





## Impact & Action Suggested due to very heavy rainfall over

- ❖ **Extremely heavy rainfall** at isolated places over Karnataka on 20<sup>th</sup> & 21<sup>st</sup> and Konkan on 21<sup>st</sup> May.
- ❖ **Isolated heavy to very heavy rainfall** likely over Tamilnadu Puducherry & Karaikal, Assam & Meghalaya on 20<sup>th</sup>; Kerala & Mahe, Karnataka, Konkan & Goa, Madhya Maharashtra during 20<sup>th</sup>-23<sup>rd</sup> 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 kutch 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 Sub-Himalayan West Bengal & Sikkim on 20<sup>th</sup>; Bihar, Marathawada during 20<sup>th</sup>-21<sup>st</sup>; Jharkhand on 20<sup>th</sup>; Chhattisgarh on 21<sup>st</sup>; Konkan & Goa, Madhya Maharashtra during 20<sup>th</sup>-23<sup>rd</sup> May.
- ✓ **Isolated hailstorm** very likely over Uttarakhand on 20<sup>th</sup> 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 kutch 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.

\* 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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**Impact expected and action suggested due to Heat wave conditions over** West Rajasthan during 20<sup>th</sup>-24<sup>th</sup>; East Rajasthan during 20<sup>th</sup>-22<sup>nd</sup> and Haryana during 20<sup>th</sup>-21<sup>st</sup> 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 / Gusty Winds / Heat Wave

- In **North Eastern States, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Kerala, Karnataka, Andhra Pradesh and Telangana**, drain out excess water and ensure proper drainage in fields with standing crops and vegetables.
- In **Himachal Pradesh and 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 **Haryana and 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.

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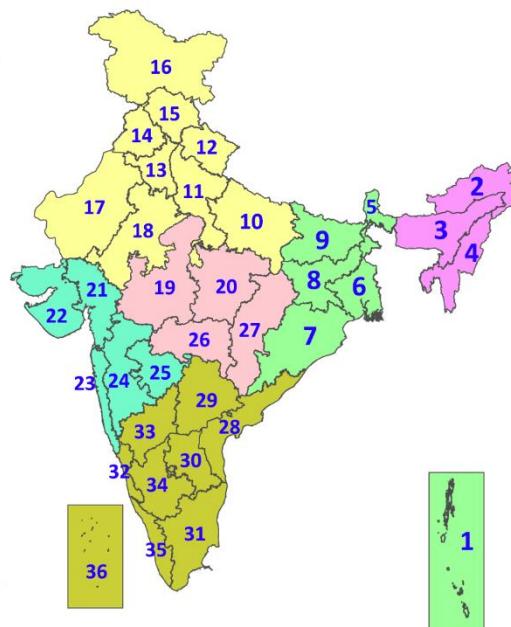
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## LEGENDS

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. झारखण्ड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखण्ड
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 आध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कर्नाटक
32. तटीय कर्नाटक
33. आतंरिक उत्तरी कर्नाटक
34. आतंरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्ष्मीप



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)



### 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
**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  $40^{\circ}\text{C}$**

**Warm Night:** When minimum temperature 4.5  $^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

**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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

**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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

**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)

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