

Wednesday, April 30, 2025  
Time of Issue: 1400 hours IST  
(MID-DAY)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### i. Weather Systems, Forecast and Warnings

- ❖ An upper air cyclonic circulation lies over north Bangladesh and another over north Coastal Andhra Pradesh in lower tropospheric levels.
- ❖ A cyclonic circulation lies over southwest Rajasthan and a trough from this cyclonic circulation to north Kerala in lower tropospheric levels.
- ❖ A trough in westerlies runs roughly along Long. 85°E to the north of Lat. 21°N in middle & upper tropospheric levels.
- ❖ Under the influence of these systems, the following weather is likely:

##### East & Central India:

- ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Bihar, Jharkhand, Odisha, West Bengal & Sikkim, East Madhya Pradesh, Vidarbha, Chhattisgarh during 30<sup>th</sup> April-03<sup>rd</sup> May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Jharkhand on 30<sup>th</sup> April & 01<sup>st</sup> May; Odisha on 30<sup>th</sup> April; East Madhya Pradesh during 30<sup>th</sup> April-03<sup>rd</sup> May; Vidarbha and Chhattisgarh on 03<sup>rd</sup> & 04<sup>th</sup> May.
- ✓ **Isolated hailstorm** activity likely over Chhattisgarh on 30<sup>th</sup>; Odisha on 30<sup>th</sup> April & 01<sup>st</sup> May; East Madhya Pradesh on 02<sup>nd</sup> & 03<sup>rd</sup> May.
- ✓ **Isolated heavy rainfall** over Odisha during 30<sup>th</sup> April-02<sup>nd</sup> May and over Bihar on 02<sup>nd</sup> May.

##### South peninsular India:

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal during next 7 days with **thundersquall (wind speed reaching 50-60 kmph)** likely over North Interior Karnataka during 30<sup>th</sup> April-04<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** over Coastal Andhra Pradesh on 30<sup>th</sup> April.

##### Northeast India:

- ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Northeast India during next 5 days with **Thundersquall (50-60 kmph)** very likely at isolated places over Assam & Meghalaya on 30<sup>th</sup> April.
- ✓ **Isolated hailstorm** very likely over Nagaland and Manipur on 01<sup>st</sup> May.

##### Northwest India:

- ❖ A fresh and active Western Disturbance likely to impact Northwest India from 02<sup>nd</sup> May, 2025. Under its influence:
  - ✓ **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 01<sup>st</sup> May to 06<sup>th</sup> May.
  - ✓ **Isolated hailstorm** very likely over Uttarakhand on 01<sup>st</sup> & 02<sup>nd</sup> May and **thundersquall** wind speed reaching 50-60 kmph on 01<sup>st</sup> May.
  - ✓ Isolated to scattered rainfall with **thunderstorm, lightning & strong winds speed reaching 40-60 kmph** likely over Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan during 30<sup>th</sup> April to 05<sup>th</sup> May.
  - ✓ **Duststorm** very likely at isolated places over East Uttar Pradesh on 30<sup>th</sup> April & 01<sup>st</sup> May; Punjab, Haryana, Chandigarh & Delhi on 01<sup>st</sup> & 02<sup>nd</sup> May; West Rajasthan during 30<sup>th</sup> April-04<sup>th</sup> May and East Rajasthan during 01<sup>st</sup>-03<sup>rd</sup> May.

#### Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Northwest India during next 2 days and fall by 2-4°C for subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over Central & West India during next 3 days and fall by 2-4°C for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

#### Heat wave, warm night and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely in isolated pockets of Jammu division, southwest Rajasthan on 30<sup>th</sup> April & 01<sup>st</sup> May and Saurashtra & Kutch on 30<sup>th</sup> April.
- ❖ **Hot & humid weather** is likely to prevail over Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe during 30<sup>th</sup> April-02<sup>nd</sup> May; Gujarat state, Marathawada and Madhya Maharashtra on 30<sup>th</sup> April & 01<sup>st</sup> May.

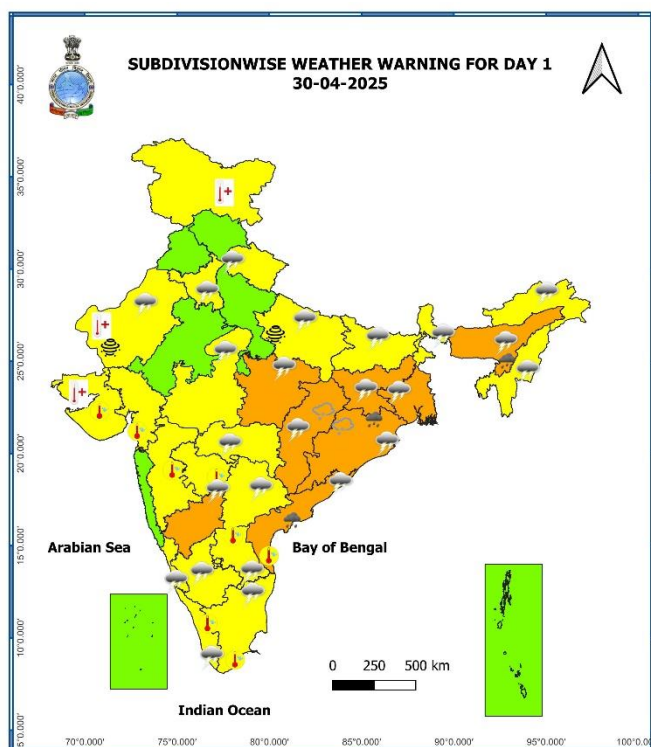
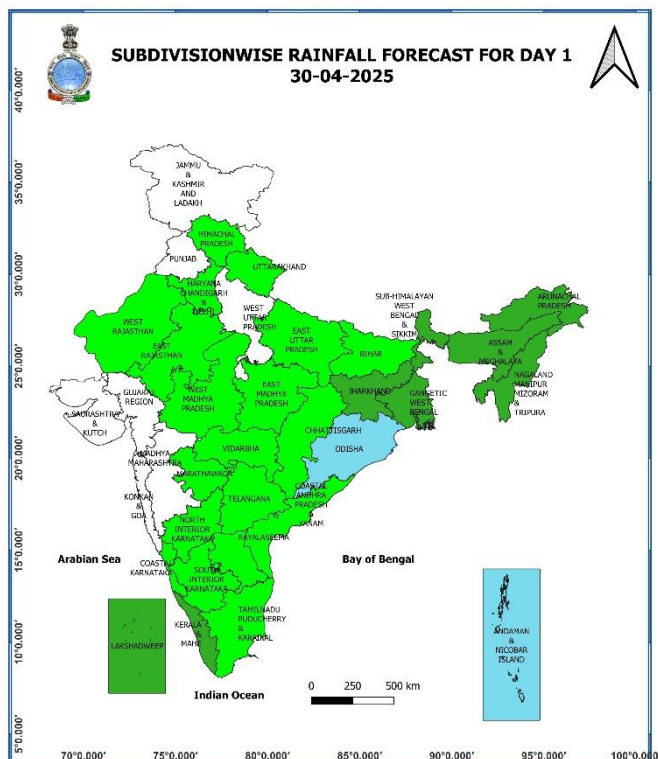
## Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Andaman & Nicobar Islands, Odisha, Arunachal Pradesh ; at a few places over Jharkhand, Assam & Meghalaya, Kerala & Mahe, Coastal Andhra Pradesh & Yanam; at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu Puducherry & Karaikal, Telangana, Karnataka.
- ❖ **Significant rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Odisha:** Mohakalapada (dist Kendrapara) 10, Talcher (dist Angul) 8, Harabhanga (dist Boudhgarh) 7, Bargaon (dist Sundargarh) 7, Chendipada (dist Angul) 6, Nuagaon (dist Nayagarh) 6, Marsaghai (dist Kendrapara) 5, Balikuda (dist Jagatsinghpur) 5, Gania (dist Nayagarh) 5, Berhampur (dist Ganjam) 5, Nayagarh (dist Nayagarh) 5; **East Madhya Pradesh:** Amarkantak (dist Anuppur) 5; **Chhattisgarh:** Jagdalpur (dist Bastar) 5; **Coastal Andhra Pradesh & Yanam:** Parvathipuram (dist Parvathipuram Manyam) 5; Seethanagaram (dist Parvathipuram Manyam), Therlam (dist Vizianagaram) 4 Each; **Tamil Nadu, Puducherry & Karaikal:** Thiruchuzhi (dist Virudhunagar) 4; **South Interior Karnataka:** Mysuru PTO (dist Mysuru) 5; **Kerala & Mahe:** Sengulam Dam AWS (dist Idukki) 6; Tellichery (dist Cannur), Idukki (dist Idukki) 5 Each; Konni (dist Pathanamthitta) 4. **Assam & Meghalaya:** Dhekiajuli (dist Shonitpur) 3.
- ❖ **Heavy rainfall** recorded at isolated places over Odisha.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 60-90 kmph prevailed at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Himachal Pradesh, Odisha and 30-60 kmph over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, East Uttar Pradesh, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Karnataka, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.
- ❖ **Hailstorm** occurred at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha and Jharkhand.
- ❖ **Heat wave conditions** prevailed in isolated pockets of Jammu division and southwest Rajasthan.
- ❖ **Minimum Temperature Departures (as on 30-04-2025):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; **above normal (1.6°C to 3.0°C)** at a few places over East Rajasthan, Saurashtra & Kutch and Madhya Maharashtra; at isolated places over Haryana-Chandigarh-Delhi, Uttar Pradesh, Gujarat Region, West Madhya Pradesh and Rayalaseema. These are **markedly below normal (-5.1 or below)** at a few places over Chhattisgarh; at isolated places over Odisha; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Madhya Pradesh and Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at many places over Jharkhand; at isolated places over Gangetic West Bengal and over rest parts of the country (**Fig. 4**). Today, the **lowest minimum temperature of 17.0°C** is reported at **Ambikapur (Chhattisgarh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 29-04-2025):** Maximum Temperatures were **markedly above normal (5.1°C or more)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably above normal (3.1°C to 5.0°C)** at a few places over West Rajasthan; at isolated places over Himachal Pradesh, Saurashtra & Kutch; **above normal (1.6°C to 3.0°C)** at many places over Marathwada; at a few places over West Madhya Pradesh and Lakshadweep; at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. These were **markedly below normal (-5.1 or below)** at a few places over Bihar and Meghalaya; at isolated places over East Uttar Pradesh, West Bengal, Sikkim and Assam; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Delhi and Jharkhand; at isolated places over West Uttar Pradesh and Odisha; **below normal (-1.6°C to -3.0°C)** at a few places over Haryana; at isolated places over Chhattisgarh, Andaman & Nicobar Island and normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature of 46.3°C** was reported at **Jaisalmer (West Rajasthan)** over the country.

### Meteorological Analysis (Based on 0830 hours IST)

- ❖ The upper air **cyclonic circulation** over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The north-south **trough** from above upper air cyclonic circulation over southwest Rajasthan & neighbourhood to north Kerala across southeast Rajasthan, West Madhya Pradesh, Vidarbha, Marathwada, Interior Karnataka persists and seen upto 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over north Bangladesh & neighbourhood persists and now extends between 1.5 & 5.8 km above mean sea level.
- ❖ The other **trough in westerlies** along Long. 91°E to the north of Lat. 18°N between 3.1 & 5.8 km above mean sea level merged with the above cyclonic circulation over north Bangladesh & neighbourhood.
- ❖ The **trough in westerlies** now runs roughly along Long. 85°E to the north of Lat. 21°N between 7.6 & 9.4 km above mean sea level.
- ❖ An upper air **cyclonic circulation** lies over north Coastal Andhra Pradesh & Yanam at 0.9 km above mean sea level
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 02<sup>nd</sup> May, 2025.

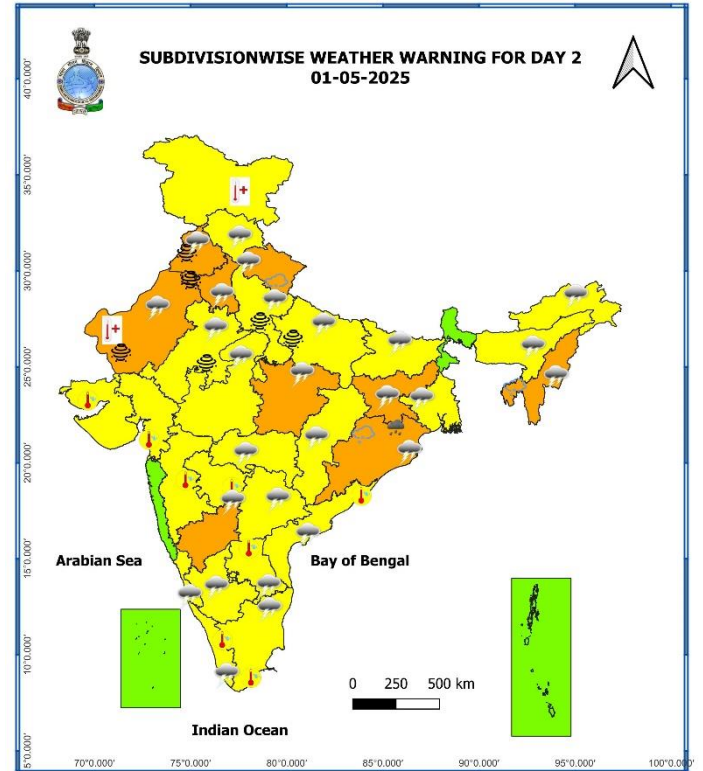
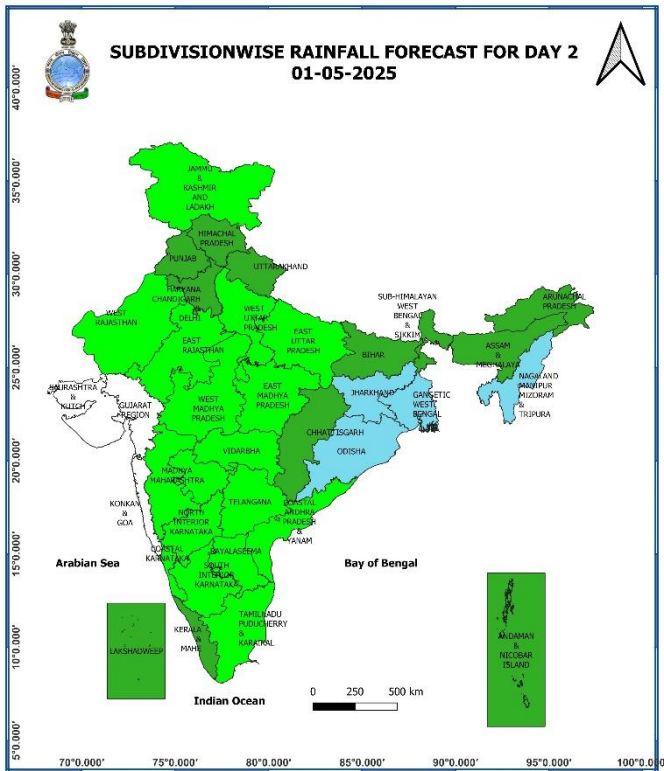
## Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 07<sup>th</sup> May, 2025)



### 30<sup>th</sup> April (Day 1)

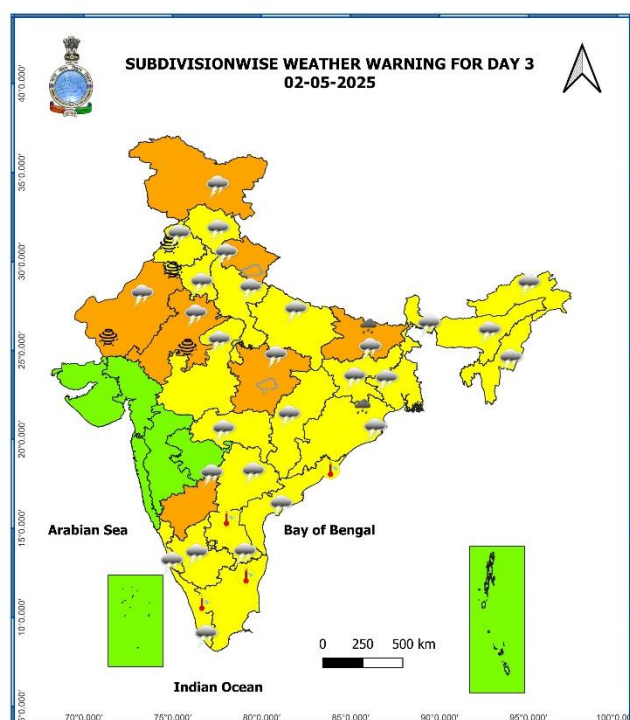
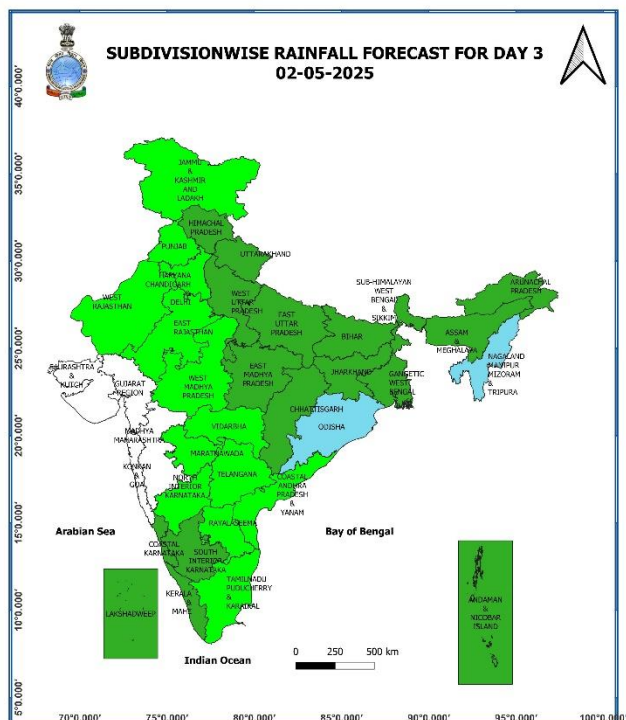
- ❖ **Thunderstorms accompanied with Heavy Rainfall** very likely at isolated places over Odisha, Assam & Meghalaya and Coastal Andhra Pradesh.
- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** very likely at isolated places over Assam & Meghalaya, Odisha, Jharkhand, East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh and North Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** very likely at isolated places over Gangetic West Bengal, Bihar, Uttarakhand, West Madhya Pradesh, Kerala & Mahe and West Rajasthan.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over East Uttar Pradesh, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram, Meghalaya & Tripura, Vidarbha, Telangana, Costal Karnataka, Rayalaseema and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh and Tamil Nadu, Puducherry & Karaikal and South Himalayan West Bengal & Sikkim.
- ❖ **Hot and Humid weather** very likely at isolated places over Gujarat state, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Rayalaseema, Tamilnadu & Puducherry and Kerala.
- ❖ **Heat Wave conditions** very likely at isolated places over Jammu division, West Rajasthan and Saurashtra & Kutch.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over East Uttar Pradesh and West Rajasthan.
- ❖ **Thunderstorms accompanied with Hailstorm** very likely at isolated places over Odisha and Chhattisgarh.





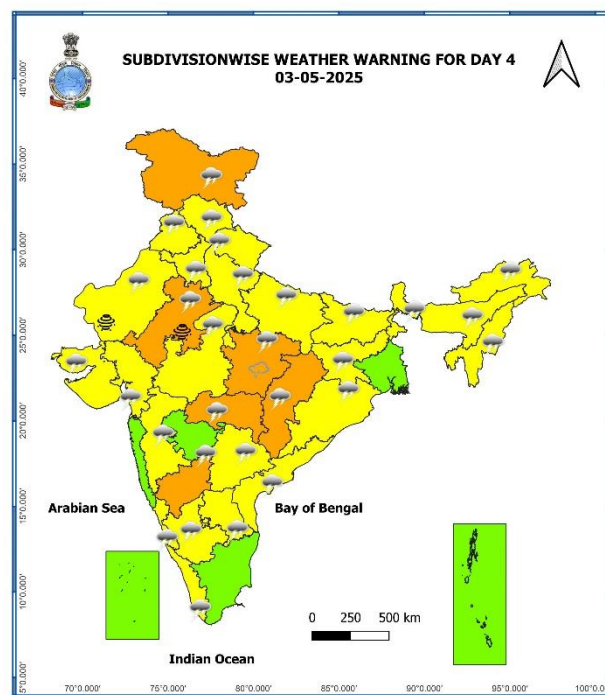
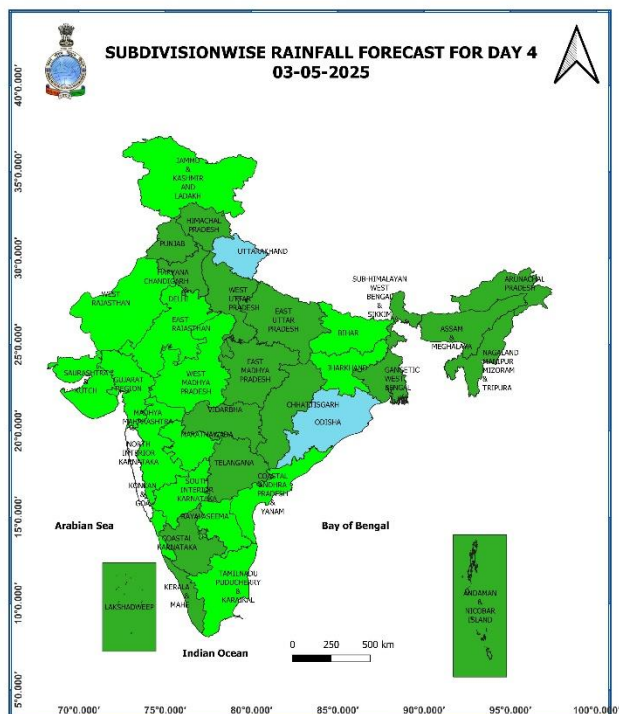
## 01<sup>st</sup> May (Day 2)

- ❖ **Thunderstorms accompanied with Heavy Rainfall** very likely at isolated places over Odisha.
- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** very likely at isolated places over Jharkhand, Uttarakhand, Punjab, West Rajasthan and East Madhya Pradesh, Haryana, Chandigarh & Delhi and North Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram, Meghalaya & Tripura, Gangetic West Bengal, Odisha, Bihar, Himachal Pradesh, East Rajasthan, West Madhya Pradesh and Chhattisgarh, Coastal Andhra Pradesh.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over East Uttar Pradesh, West Uttar Pradesh and South Interior Karnataka, Vidarbha and Coastal Karnataka.
- ❖ **Thunderstorm & Lightning** very likely at isolated places over Arunachal Pradesh, Telangana and Kerala, Rayalaseema and Tamilnadu & Puducherry.
- ❖ **Hot and Humid conditions** very likely at isolated places over Gujarat Region, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Rayalaseema, Tamilnadu & Puducherry and Kerala.
- ❖ **Heat Wave conditions** very likely at isolated places over Jammu division and West Rajasthan.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over East Uttar Pradesh, West Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, West Rajasthan and East Rajasthan.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Nagaland, Manipur, Meghalaya & Tripura, Odisha and Uttarakhand.



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

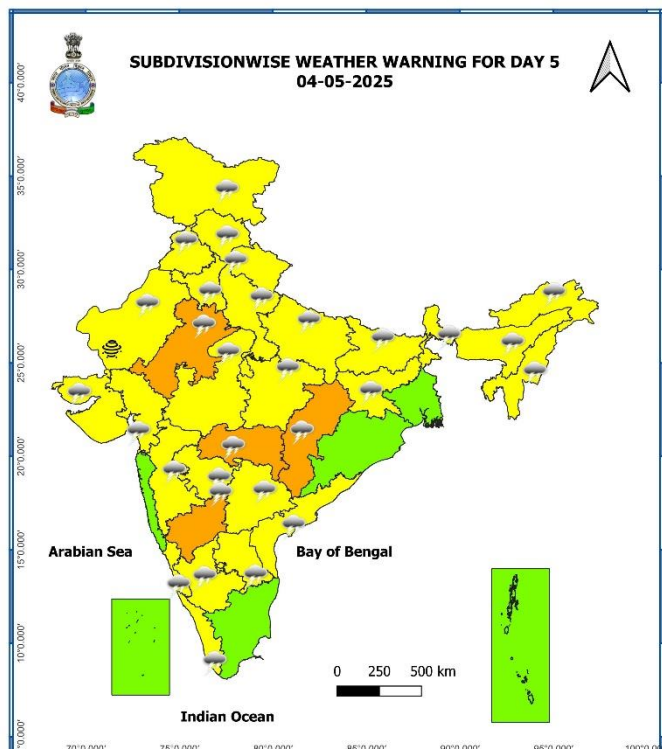
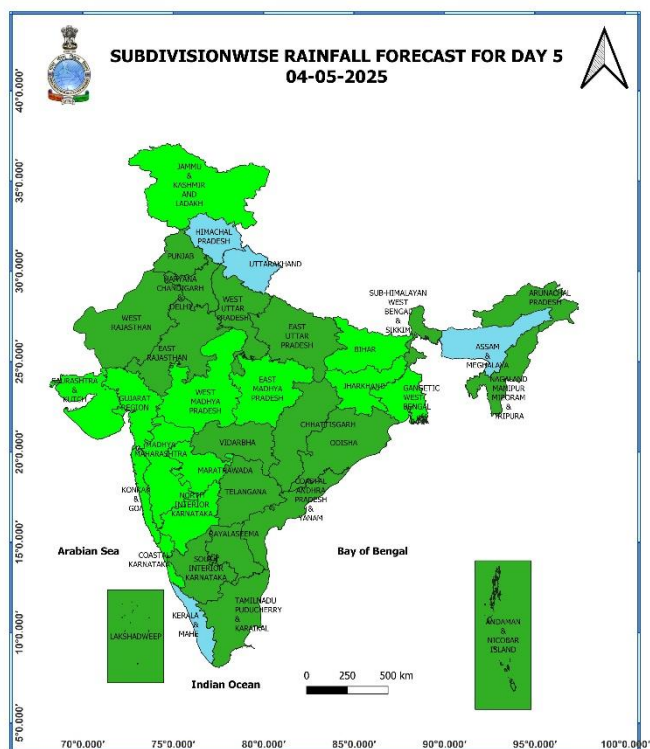
- ❖ **Thunderstorms accompanied with Heavy Rainfall** very likely at isolated places over Odisha and Bihar.
- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** very likely at isolated places over Bihar, Jammu division and Ladakh, West Rajasthan, East Rajasthan and East Madhya Pradesh, North Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** very likely at isolated places over Gangetic West Bengal, Odisha, Jharkhand, Uttarakhand, Punjab, Himachal Pradesh, West Madhya Pradesh, Vidarbha and Coastal Karnataka, East Uttar Pradesh, West Uttar Pradesh, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh and South Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over Assam & Meghalaya, Mizoram, Nagaland, Manipur, Meghalaya & Tripura, South Himalayan West Bengal & Sikkim and Chhattisgarh.
- ❖ **Thunderstorm & Lightning** very likely at isolated places over Arunachal Pradesh and Telangana, Rayalaseema and Kerala.
- ❖ **Hot and Humid conditions** very likely at isolated places over Coastal Andhra Pradesh, Rayalaseema, Kerala, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, West Rajasthan and East Rajasthan.
- ❖ **Thunderstorm accompanied Hailstorm** very likely at isolated places over Uttarakhand and East Madhya Pradesh.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off North Andhra Pradesh coast. **Squally weather with wind speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over Gulf of Mannar and adjoining Comorin area.



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

- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** likely at isolated places over Jammu and Kashmir and Ladakh, East Rajasthan, East Madhya Pradesh, Vidarbha and Chhattisgarh and North Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over Jharkhand, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Punjab, Himachal Pradesh, West Rajasthan, West Madhya Pradesh, Coastal Karnataka, Haryana, Chandigarh & Delhi and South Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, South Himalayan West Bengal & Sikkim, Odisha, Bihar, Gujarat Region, Saurashtra & Kutch and Coastal Andhra Pradesh.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Arunachal Pradesh, Madhya Maharashtra, Telangana Rayalaseema, Kerala.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over West Rajasthan and East Rajasthan.
- ❖ **Thunderstorm accompanied with Hailstorm** likely at isolated places over East Madhya Pradesh.
- ❖ **Squally weather with wind speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over Gulf of Mannar and adjoining Comorin area.

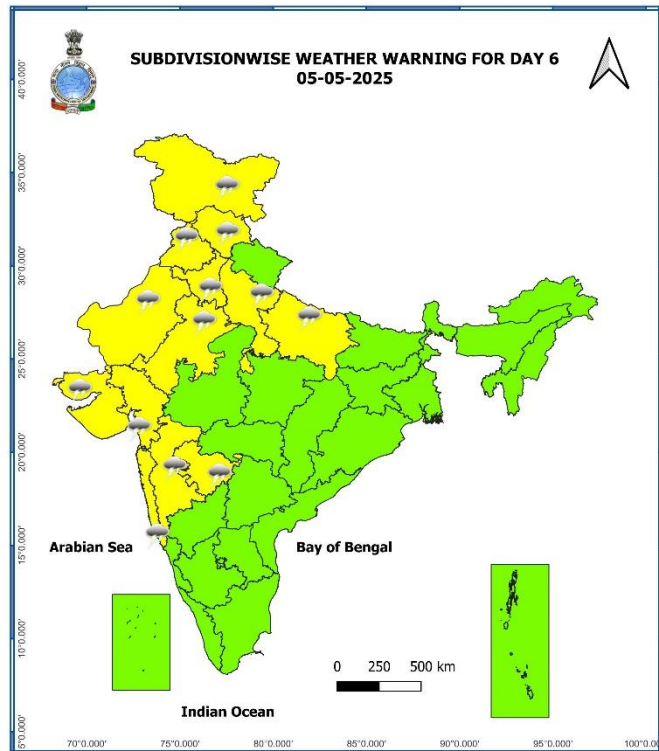
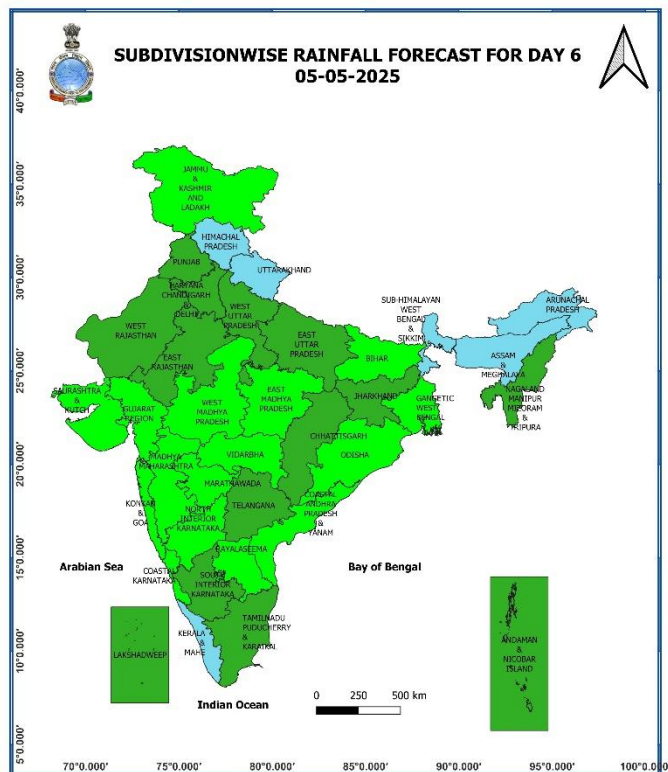




## 04<sup>th</sup> May (Day 5)

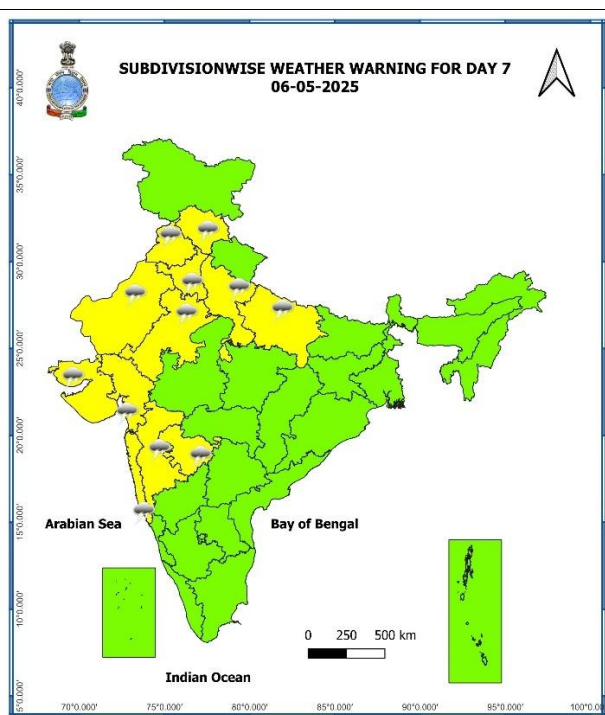
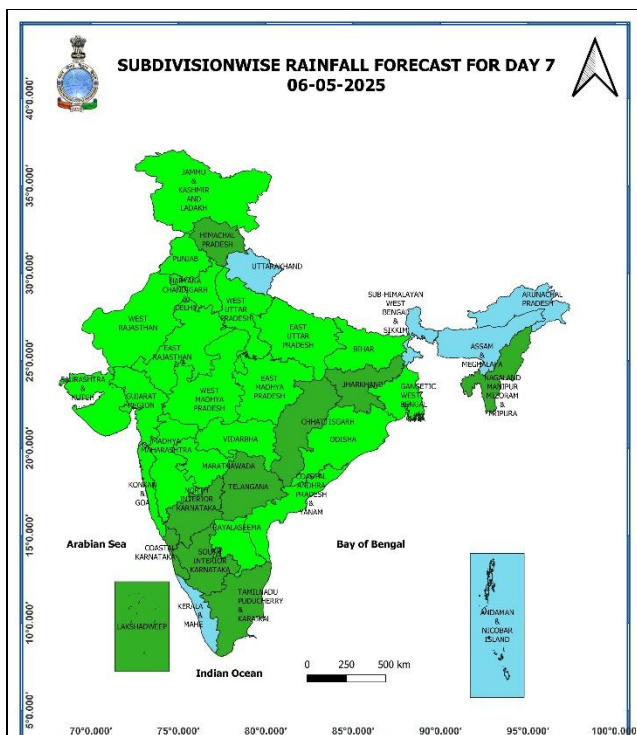
- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** likely at isolated places over East Rajasthan, Vidarbha, Chhattisgarh and North Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over Jharkhand, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Punjab, Jammu and Kashmir and Ladakh, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Coastal Karnataka, South Interior Karnataka and Haryana, Chandigarh & Delhi.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, South Himalayan West Bengal & Sikkim, Bihar, Himachal Pradesh, Gujarat Region, Saurashtra & Kutch, Coastal Andhra Pradesh and Kerala.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Arunachal Pradesh, Madhya Maharashtra, Marathwada, Telangana and Rayalaseema.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over West Rajasthan.
- ❖ **Squally weather with wind speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over Gulf of Mannar and adjoining Comorin area.





## 05<sup>th</sup> May (Day 6)

- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Uttar Pradesh, Punjab, Jammu and Kashmir and Ladakh and East Rajasthan.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Himachal Pradesh, West Rajasthan, Gujarat Region and Saurashtra & Kutch.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Marathwada.



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

- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over East Rajasthan.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Uttar Pradesh, Punjab, Himachal Pradesh, West Rajasthan, Gujarat Region and Saurashtra & Kutch.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Marathwada.

### Weather Outlook for subsequent 3 days (During 07<sup>th</sup> May- 09<sup>th</sup> May, 2025)

- ❖ **Scattered to fairly widespread** rainfall activity likely over east & northeast India, Kerala.
- ❖ **Isolated to scattered rainfall** likely over Northwest India, adjoining central India, Maharashtra, south peninsular India and Andaman & Nicobar Islands.

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

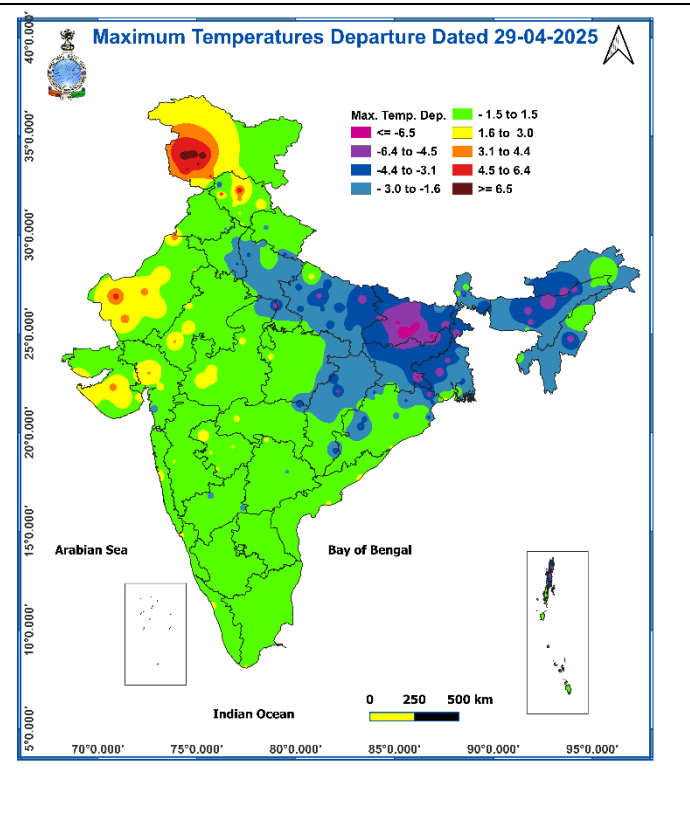
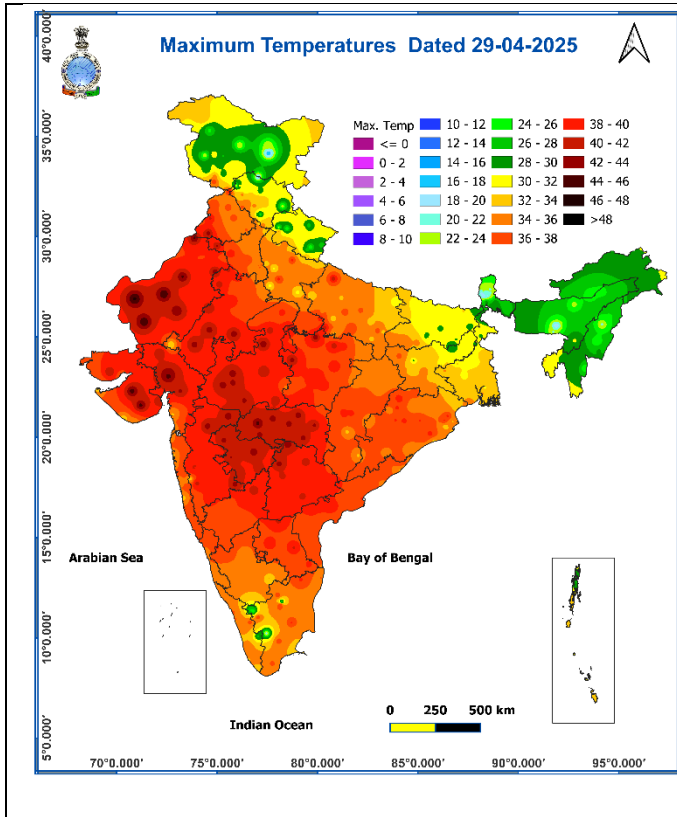


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

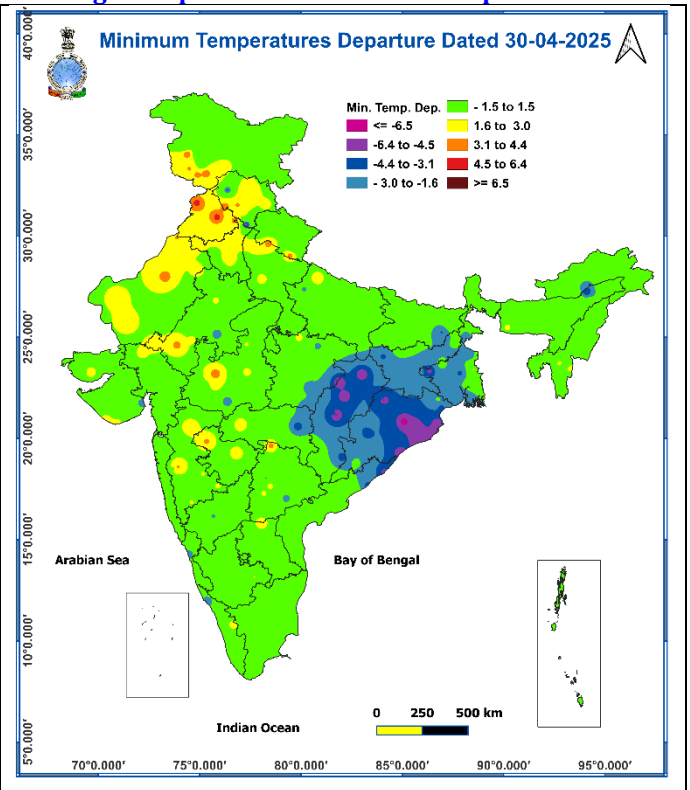
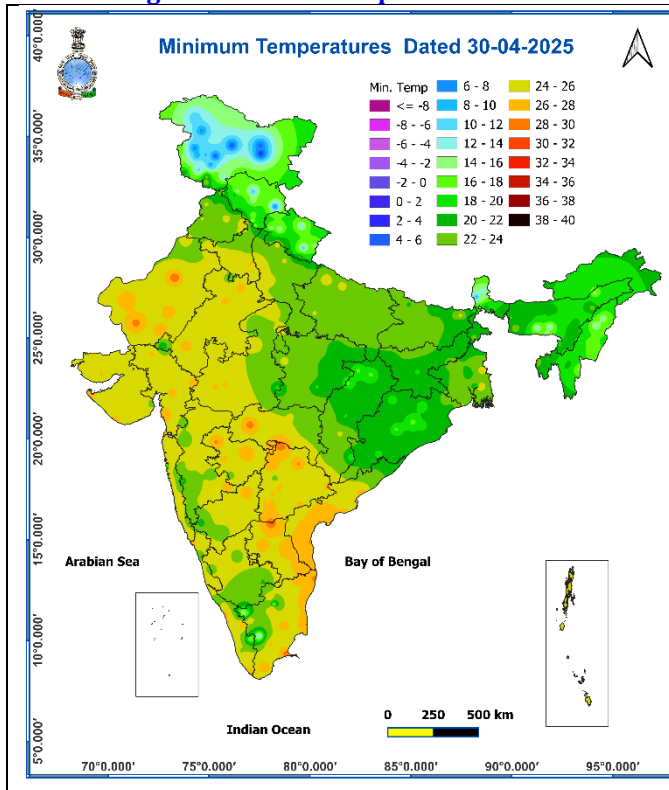
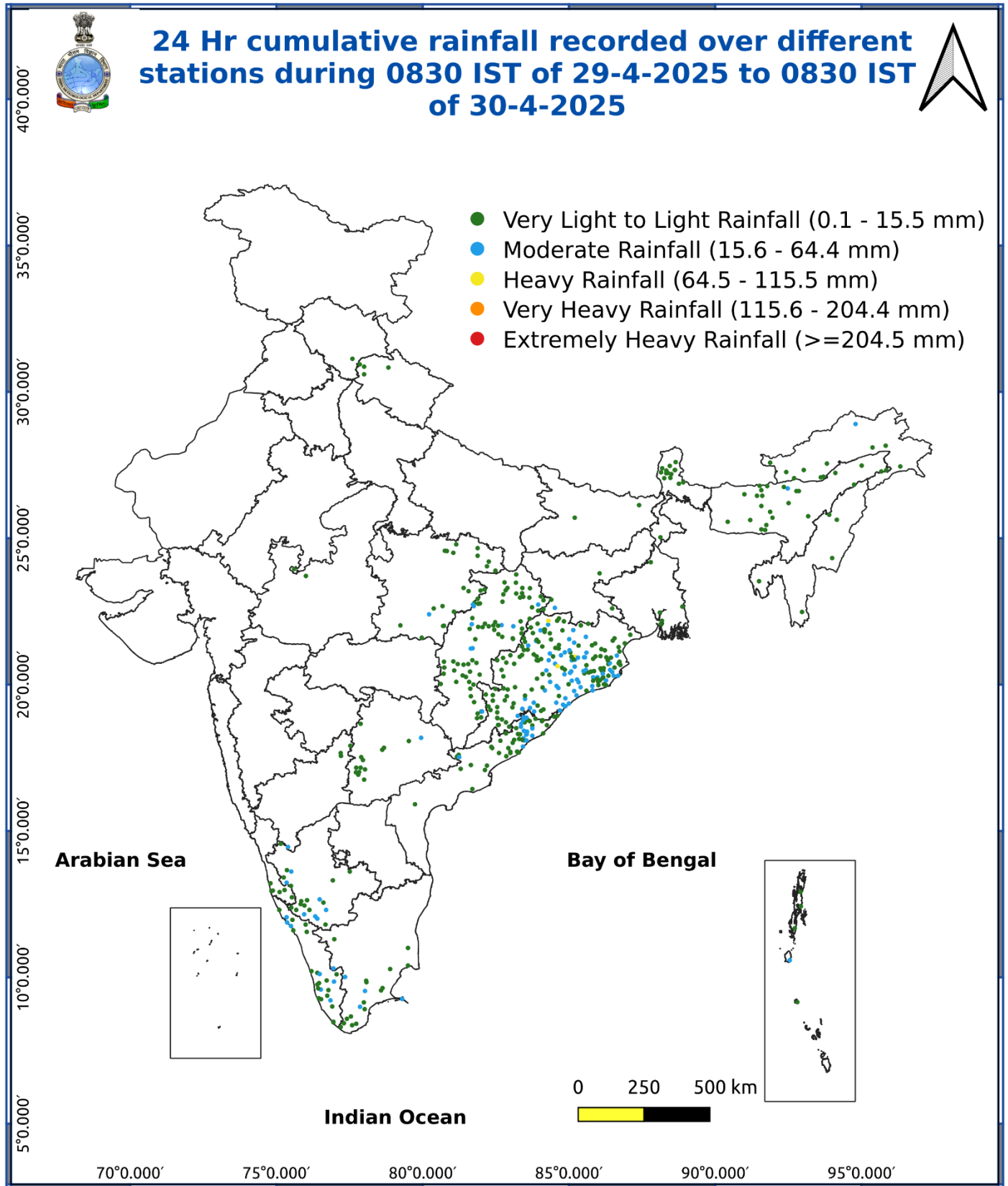




Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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

- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** likely over Jharkhand on 30<sup>th</sup> April & 01<sup>st</sup> May; Odisha, Assam & Meghalaya on 30<sup>th</sup> April; East Madhya Pradesh during 30<sup>th</sup> April-03<sup>rd</sup> May; Vidarbha and Chhattisgarh on 03<sup>rd</sup> & 04<sup>th</sup> May, Punjab, Haryana Chandigarh & Delhi, Uttarakhand on 01<sup>st</sup> May, Jammu division on 02<sup>nd</sup> & 03<sup>rd</sup> May, North Interior Karnataka during 30<sup>th</sup> April-04<sup>th</sup> May.
- ✓ **Isolated hailstorm** activity likely over Chhattisgarh on 30<sup>th</sup>; Odisha on 30<sup>th</sup> April & 1<sup>st</sup> May, Uttarakhand on 01<sup>st</sup> & 02<sup>nd</sup> May; East Madhya Pradesh on 02<sup>nd</sup> & 03<sup>rd</sup> May and Nagaland, Manipur, Mizoram & Tripura on 01<sup>st</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 kutcha 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

- ❖ **Heat wave to severe heat wave conditions** very likely in isolated pockets of Saurashtra & Kutch on 30<sup>th</sup> April; southwest Rajasthan and Jammu division on 30<sup>th</sup> April & 01<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 Hailstorm / Heavy Rainfall / Gusty Winds / Heat wave

- In **North Eastern States** and **Odisha**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Gangetic West Bengal, Odisha, Jharkhand, Vidarbha** and **Chhattisgarh**, use hail net and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- To protect standing crops, vegetables and orchards from adverse effects of heat waves and high temperatures, apply light and frequent irrigation in the evening.
- 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.

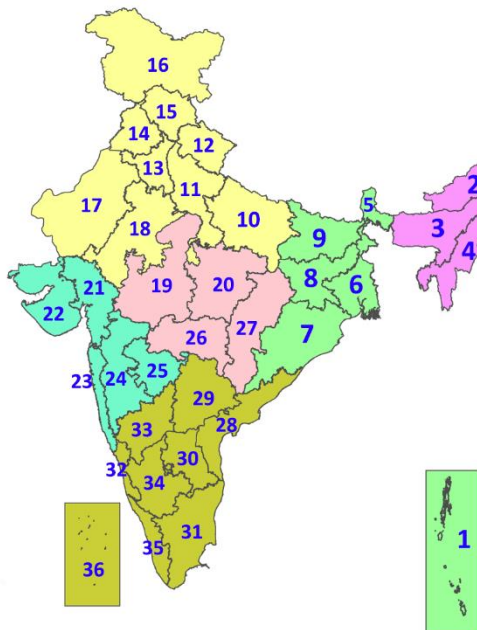
### Livestock / Poultry / Fishery

- 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.
- 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.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow



## 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)



### 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

\* 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)

## 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 departure  $4.5^{\circ}\text{C}$  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)