

Monday, May 19, 2025
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Northeast India:

- ❖ Fairly widespread to widespread light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Northeast India during next 7 days.
- ❖ **Isolated heavy rainfall** over Arunachal Pradesh during 19th-20th; Assam & Meghalaya during 19th-24th; with isolated **very heavy rainfall** over Assam & Meghalaya during 19th-20th May.

South peninsular India:

- ❖ Fairly widespread to widespread light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Kerala & Mahe, Lakshadweep, 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 rainfall** likely over Tamilnadu Puducherry & Karaikal on 19th & 20th; Kerala & Mahe, Coastal Karnataka, North Interior Karnataka during 19th-24th; Lakshadweep on 19th; Coastal Andhra Pradesh & Yanam during 20th-22nd; Rayalaseema during 19th-20th; South Interior Karnataka during 19th-21st May with the **Isolated very heavy rainfall** also likely over Coastal Karnataka during 20th-22nd; South Interior Karnataka during 19th-20th and over North Interior Karnataka during 19th-22nd; ghats area of Tamil Nadu on 20th May.
- ❖ **Extremely heavy rainfall** at isolated places over Coastal Karnataka on 20th May.

West India:

- ❖ **Isolated to scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Konkan & Goa, Madhya Maharashtra, Marathwada during 19th-24th and over Gujarat State during 22nd-24th May.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Konkan & Goa during 20th-23rd; Madhya Maharashtra during 20th-23rd; Marathwada on 20th May.
- ❖ **Isolated heavy rainfall** likely over south Madhya Maharashtra during 19th -23rd; Konkan & Goa during 19th-24th May with **very heavy rainfall** over Konkan during 20th - 22nd and Madhya Maharashtra on 21st & 22nd 2025.

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, Jharkhand; **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Bihar during next 7 days.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Sub-Himalayan West Bengal & Sikkim on 20th; Bihar during 19th-20th; Jharkhand, Vidarbha on 19th; Chhattisgarh during 20th-22nd May.
- ❖ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 19th-21st; Bihar during 19th-22nd May with **very heavy rainfall** over Sub-Himalayan West Bengal & Sikkim on 20th May 2025.

Northwest India:

- ✓ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 19th-20th and Uttarakhand during 19th-24th May.
- ✓ Isolated light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over plains of Northwest India during 19th-24th May.
- ✓ **Isolated hailstorm** very likely over Himachal Pradesh on 19th and over Uttarakhand on 19th & 20th May.
- ✓ **Isolated heavy rainfall** likely over Uttarakhand on 23rd & 24th May.
- ✓ **Strong dust raising winds (30-40 kmph)** very likely over West Rajasthan on 19th May.

Maximum Temperature Forecast:

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

Heat wave and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely in isolated pockets of West Rajasthan during 19th-22nd May.
- ❖ **Hot & humid weather** is likely to prevail over Odisha on 19th May.
- ❖ **Warm night conditions** very likely in isolated pockets of West Rajasthan on 19th May.

Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours to 1730 hours IST of Yesterday): **at most places over** Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **at a few places over** Bihar, Madhya Maharashtra, North Interior Karnataka, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe; **at isolated places over** Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Vidarbha, Marathwada, Telangana, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- ❖ **Significant amount of rainfall recorded** (from 0830 hours to 1730 hours IST of Yesterday) (in cm): **Marathwada:** Aurangabad 8; **Tamil Nadu:** Coimbatore 7, Valparai 2; **Gangetic West Bengal:** Canning 5, Alipore Kolkata 2; **Meghalaya:** Shillong 3; **Jharkhand:** Ranchi 3; **North Interior Karnataka:** Belgaum 4, Bidar 3; **Dharwad 2;** **Coastal Andhra Pradesh:** Machilipatnam 3; **Rayalaseema:** Tirupati 3; **Kerala & Mahe:** Trissur 3.
- ❖ **Heavy rainfall** at isolated places over Marathwada, Tamil Nadu.
- ❖ Yesterday, **Heat wave conditions** observed at a few places over West Rajasthan.
- ❖ **Minimum Temperature Departures (as on 18-05-2025):** Minimum temperatures were **markedly above normal (> 5.1°C)** at Many places over East Madhya Pradesh; at Few places over West Rajasthan and Gujarat Region; at Isolated places over Assam & Meghalaya, Bihar, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, Saurashtra & Kutch and Madhya Maharashtra. **Appreciably above normal (3.1°C to 5.0°C)** at Many places over Punjab; at Isolated places over Gangetic West Bengal, Haryana-Chandigarh-Delhi, East Rajasthan and Konkan & Goa. **above normal (1.6°C to 3.0°C)** at Few places over Andaman & Nicobar Islands and Odisha; at Isolated places over Sub Himalayan West Bengal & Sikkim, Uttarakhand, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **Near normal (-1.5°C to 1.5°C)** at Many places over Jharkhand and South Interior Karnataka; at Most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at Few places over Vidarbha, Telangana, Rayalaseema and North Interior Karnataka; at Isolated places over Marathwada and Chhattisgarh. **(Fig. 4).** Yesterday, the **lowest minimum temperature of 17.6°C** was reported at **North Lakhimpur (Assam)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 18-05-2025):** Maximum Temperatures were **markedly above normal (5.1°C or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Himachal Pradesh; **above normal (1.6°C to 3.0°C)** at few places over Punjab, Haryana, Rajasthan; at isolated places over Uttar Pradesh. These were **markedly above normal (> 5.1°C)** at many places over Arunachal Pradesh, Assam & Meghalaya; at isolated places over Madhya Pradesh, Chhattisgarh, Vidarbha, Madhya Maharashtra, Marathwada, North Interior Karnataka, Rayalaseema, Telangana; **appreciably below normal (-3.1°C to -5.0°C)** at a few places Coastal Andhra Pradesh & Yanam, Bihar, South Interior Karnataka; at isolated places over Bihar, Gangetic West Bengal, Gujarat Region, Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka; at a few places over Konkan & Goa, Odisha, Nagaland, Manipur, Mizoram & Tripura; at isolated place over West Uttar Pradesh and normal over rest parts of the country. **(Fig. 2).** Yesterday, the highest **maximum temperature of 46.6°C** was reported at **Suratgarh (West Rajasthan)** over 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.

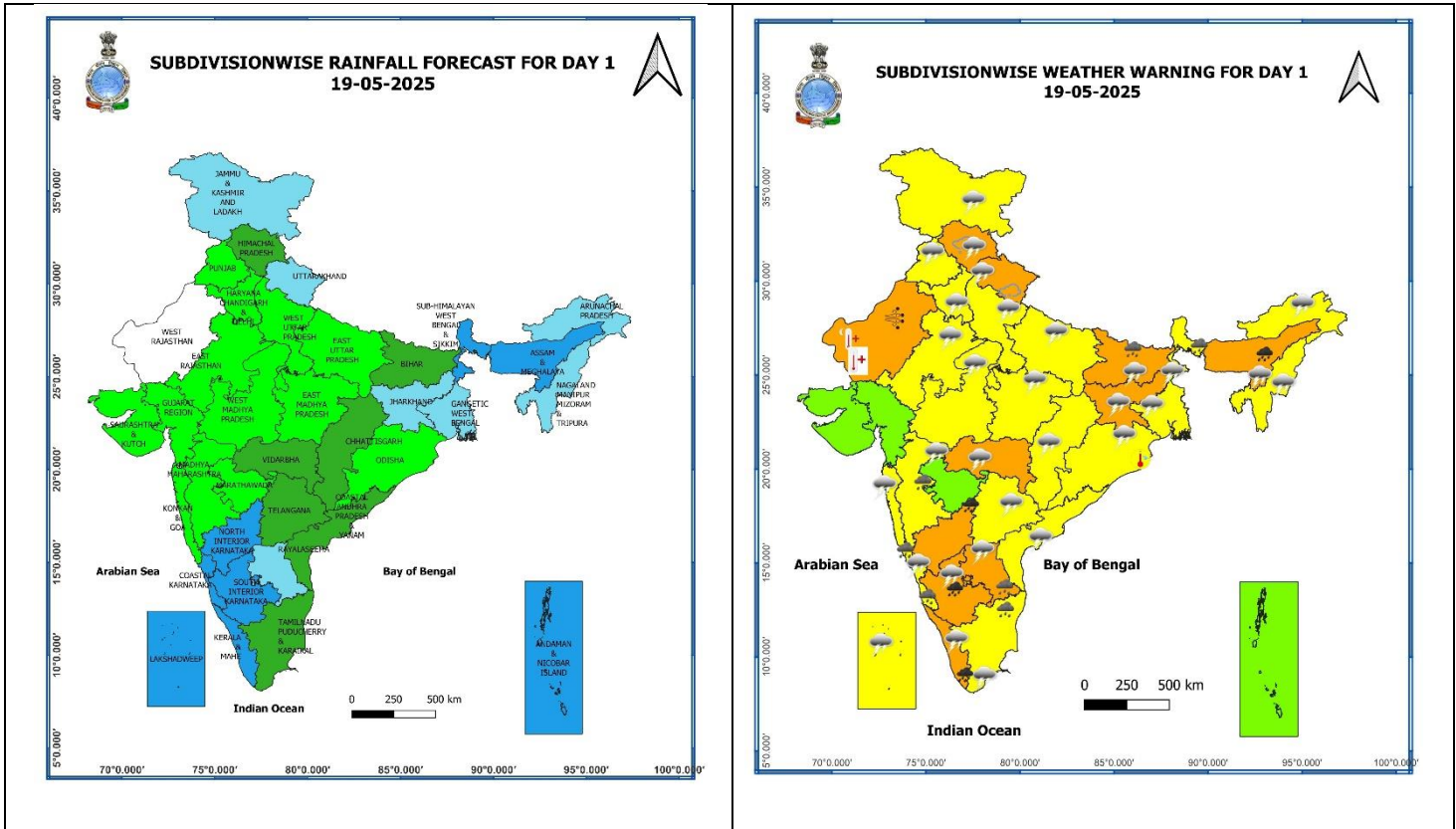
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Meteorological Analysis (Based on 0530 hours IST)

- ❖ **The Northern Limit of Monsoon continues to pass through 5°N/65°E, 6°N/70°E, 6.5°N/75°E, 7°N/80°E, 9°N/85°E, 12°N/90°E, 15°N/93°E and 19°N/97°E.**
- ❖ Conditions are favorable for further advance of southwest Monsoon over some more parts of south Arabian Sea, Maldives & Comorin area; some more parts of South Bay of Bengal; some more parts of central Bay of Bengal, and some 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 21st May. Under its influence, a **Low-pressure area** is likely to form over the same region around 22nd 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. 66°E to the north of Lat. 32°N.
- ❖ An **upper air cyclonic circulation** lies over south Haryana & adjoining northeast Rajasthan at 0.9 km above mean sea level.
- ❖ The **trough** now runs from central parts of Punjab to central parts of Madhya Pradesh across above cyclonic circulation over south Haryana & adjoining northeast Rajasthan at 0.9 km above mean sea level.
- ❖ The **upper air cyclonic circulation** over northwest Uttar Pradesh & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The **upper air cyclonic circulation** over central Assam extending upto 1.5 km above mean sea level persists.
- ❖ The **trough** in westerlies roughly along Long. 91°E to the north of Lat. 23°N at 3.1 km above mean sea level persists.
- ❖ The **upper air cyclonic circulation** over west Vidarbha & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The **trough** from above cyclonic circulation over west Vidarbha to Rayalaseema across North Interior Karnataka at 1.5 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over southwest & adjoining southeast Bay of Bengal between 1.5 & 5.8 km above mean sea level tilting southwestwards with height persists.
- ❖ The **trough** now runs from southeast Bay of Bengal to North Interior Karnataka across the above cyclonic circulation over southwest & adjoining southeast Bay of Bengal and central parts of Tamil Nadu, South Interior Karnataka between 1.5 & 5.8 km above mean sea level tilting southwestwards with height.
- ❖ The **upper air cyclonic circulation** over northeast Arabian Sea off south Gujarat 1.5 km above mean sea level persists.

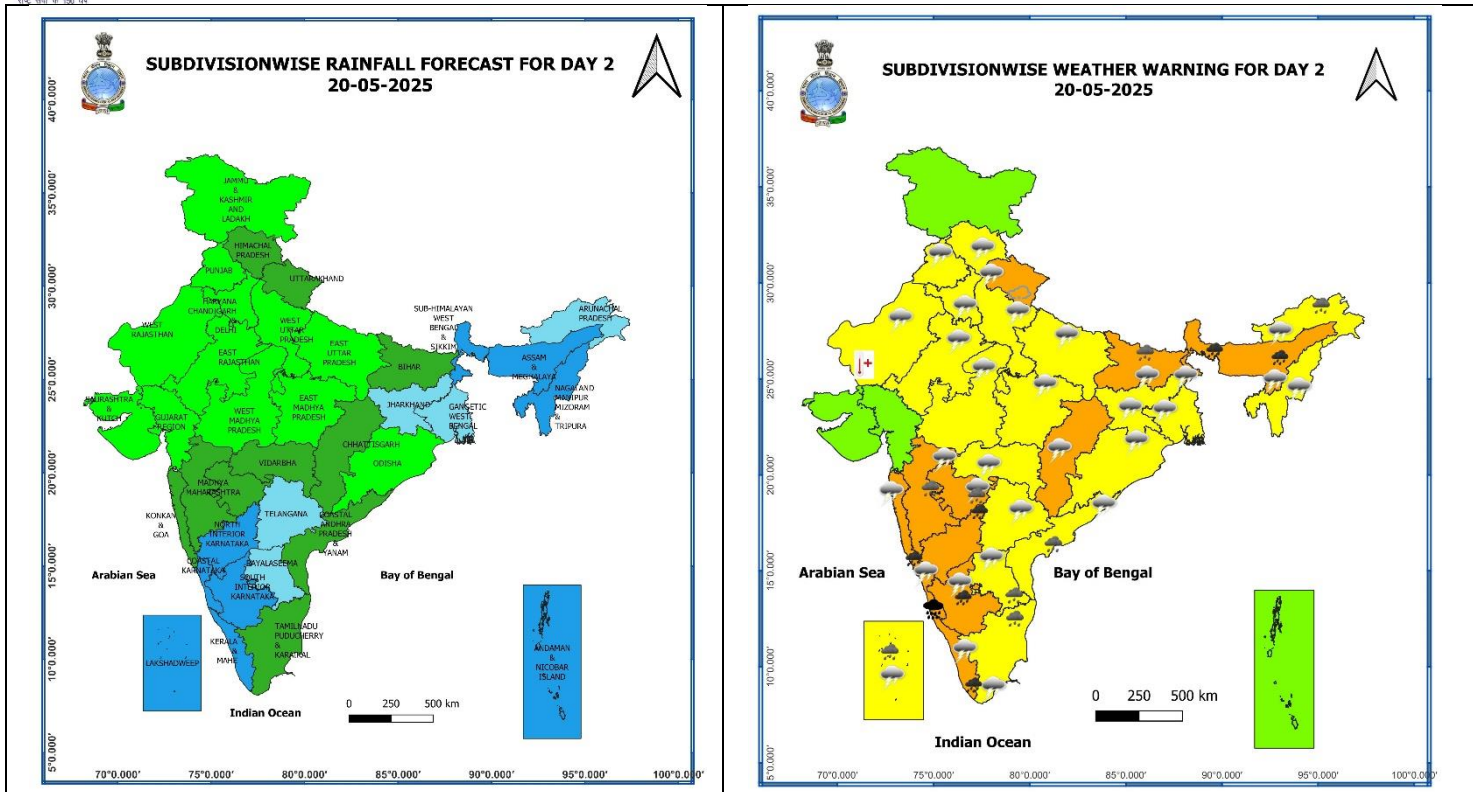
Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 26th May, 2025)



19th May (Day 1)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Interior Karnataka and Kerala & Mahe.
- ❖ **Heavy Rainfall** very likely at isolated places over Bihar, Costal Karnataka, Konkan & Goa, Madhya Maharashtra, Rayalaseema, Sub Himalayan West Bengal & Sikkim and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Himachal Pradesh and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar, Jharkhand, Rayalaseema and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh, East Rajasthan, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh, Uttarakhand and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Kerala & Mahe, South Interior Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Costal Karnataka and Lakshadweep.
- ❖ **Dust Raising Winds** very likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** very likely at isolated places over West Rajasthan.
- ❖ **Hot and Humid weather** very likely at isolated places over Odisha.
- ❖ **Warm Night conditions** very 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 Oman coast, along and off South Sri Lanka coast, 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 Maharashtra, Goa, Kerala, Karnataka coasts, Lakshadweep area and over few parts of southwest Bay of Bengal.

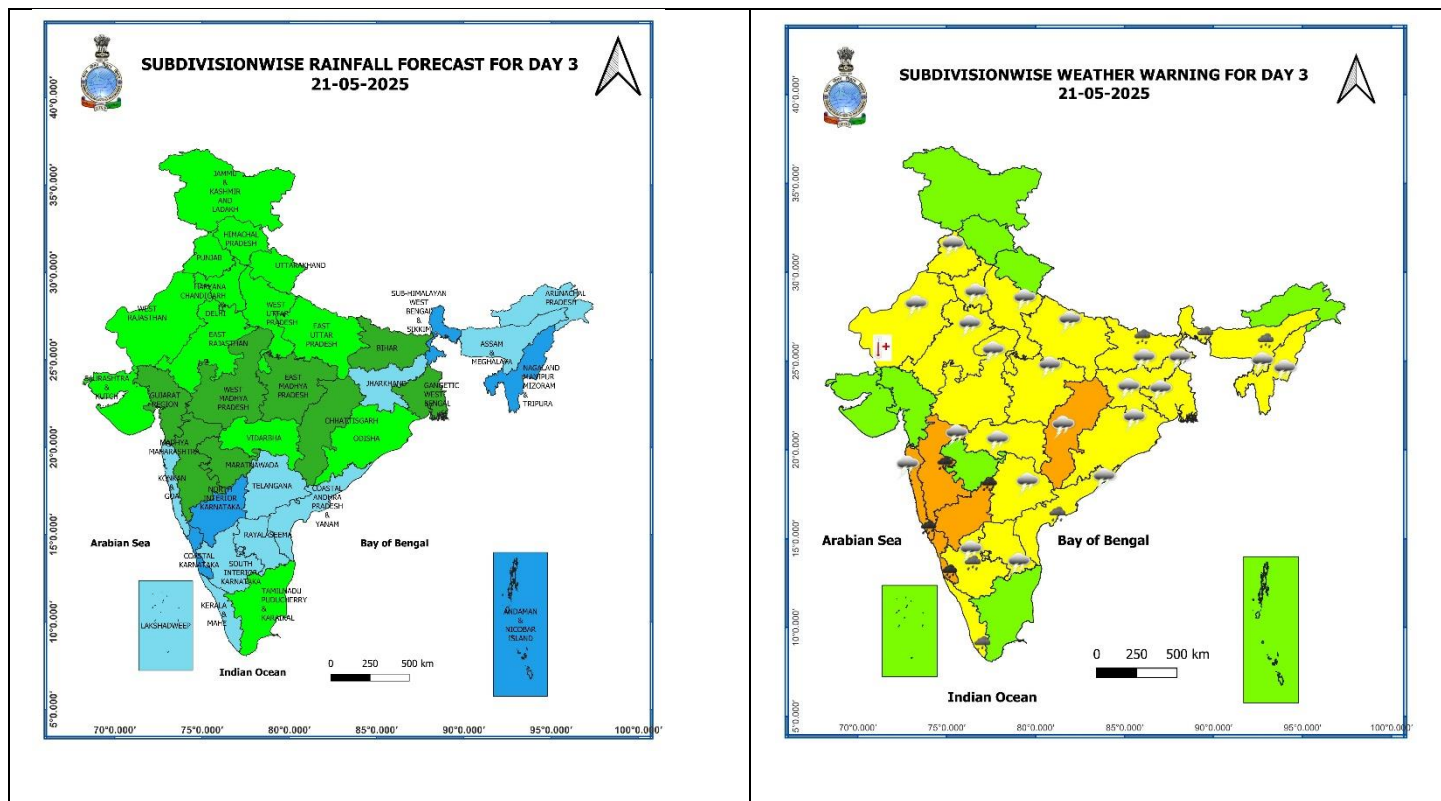
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20th May (Day 2)

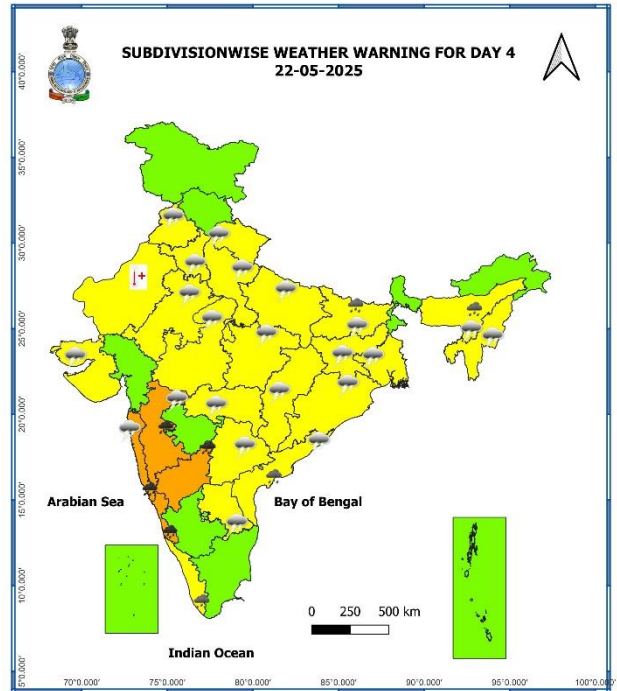
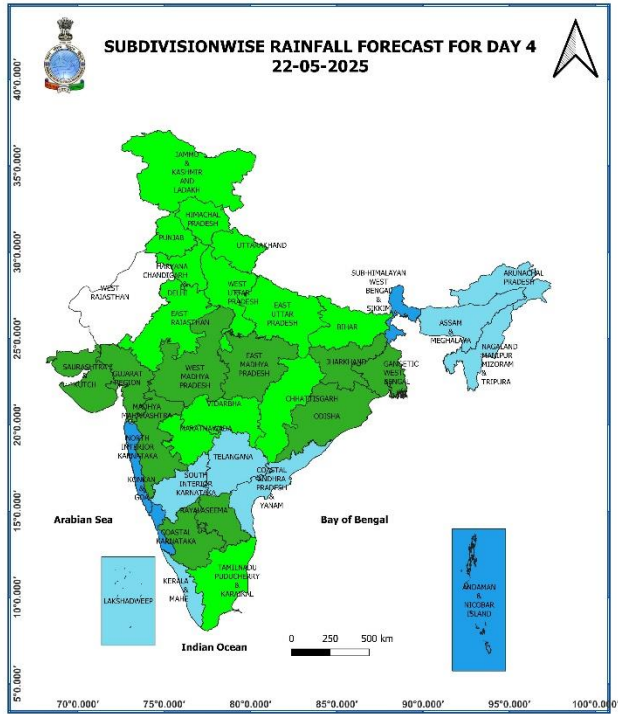
- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Coastal Karnataka.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Interior Karnataka, Kerala & Mahe, Konkan & Goa and Sub Himalayan West Bengal & Sikkim.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Bihar, Lakshadweep, Madhya Maharashtra, Marathwada and Tamil Nadu Puducherry & Karaikal.
- ❖ **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, Chhattisgarh, 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 Himachal Pradesh, Jharkhand, Madhya Pradesh, Rajasthan, Rayalaseema, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Coastal Andhra Pradesh, Coastal Karnataka, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, South Interior Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh and Lakshadweep.
- ❖ **Heat Wave conditions** very likely at isolated places over West Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, along and off South Sri Lanka coast, 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 Maharashtra, Goa, Kerala, Karnataka coasts and Lakshadweep area.

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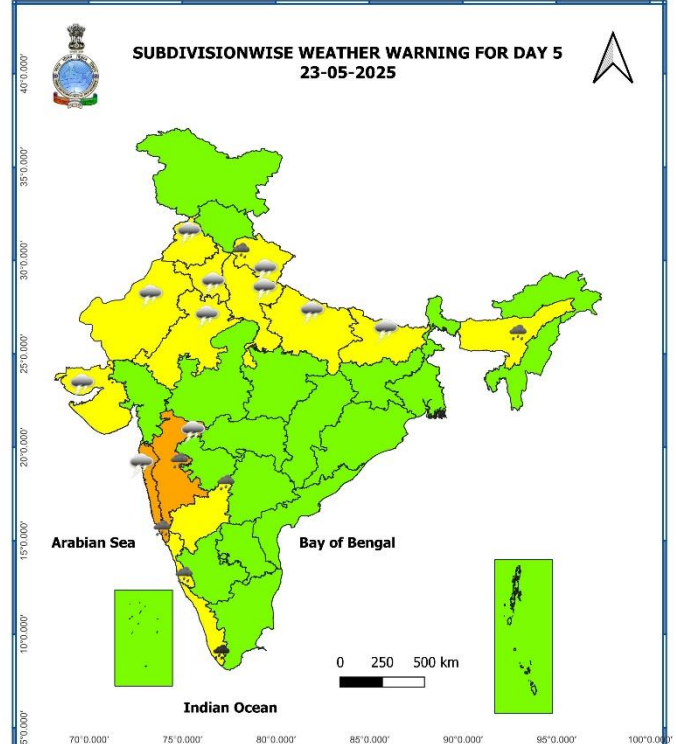
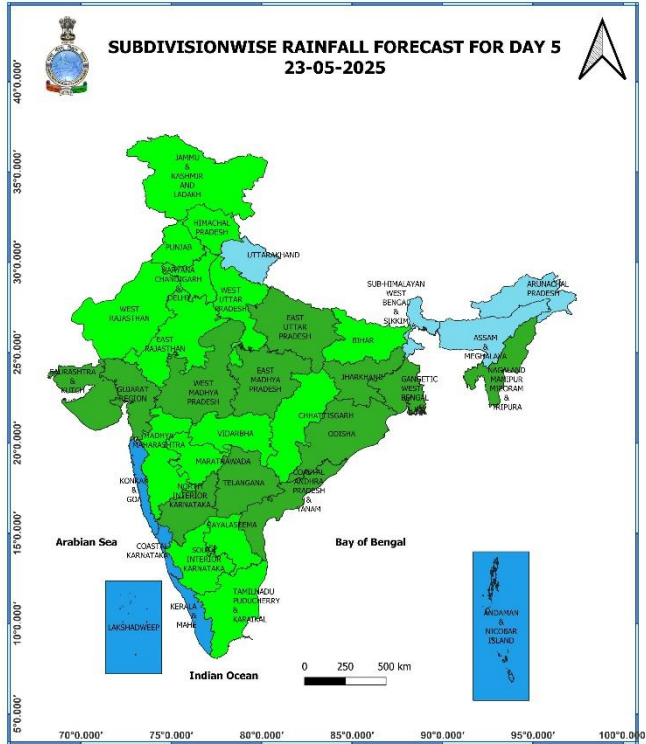
21st May (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Karnataka, Konkan & Goa, Madhya Maharashtra and North Interior Karnataka.
- ❖ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Bihar, Coastal Andhra Pradesh, Kerala & Mahe, South Interior Karnataka and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Chhattisgarh, Konkan & Goa and Madhya Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jharkhand, Madhya Pradesh, Odisha, Rajasthan, Rayalaseema, Sub Himalayan West Bengal & Sikkim and Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya, Bihar, Coastal Andhra Pradesh, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Punjab, South Interior Karnataka, Telangana and Vidarbha.
- ❖ **Heat Wave conditions** likely at isolated places over West Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, along and off South Sri Lanka coast, 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 Maharashtra coast, Goa adjoining Eastcentral Arabian Sea, Kerala, Karnataka coasts and Lakshadweep area.



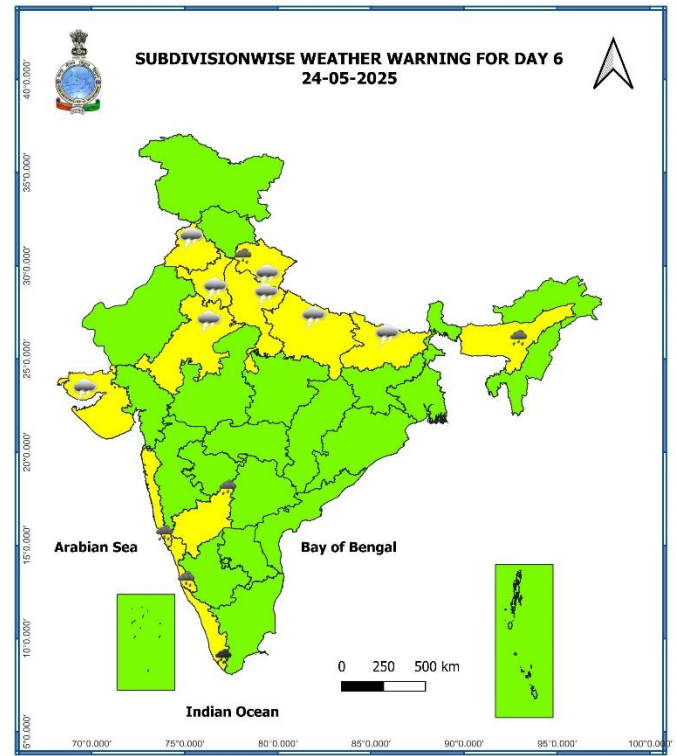
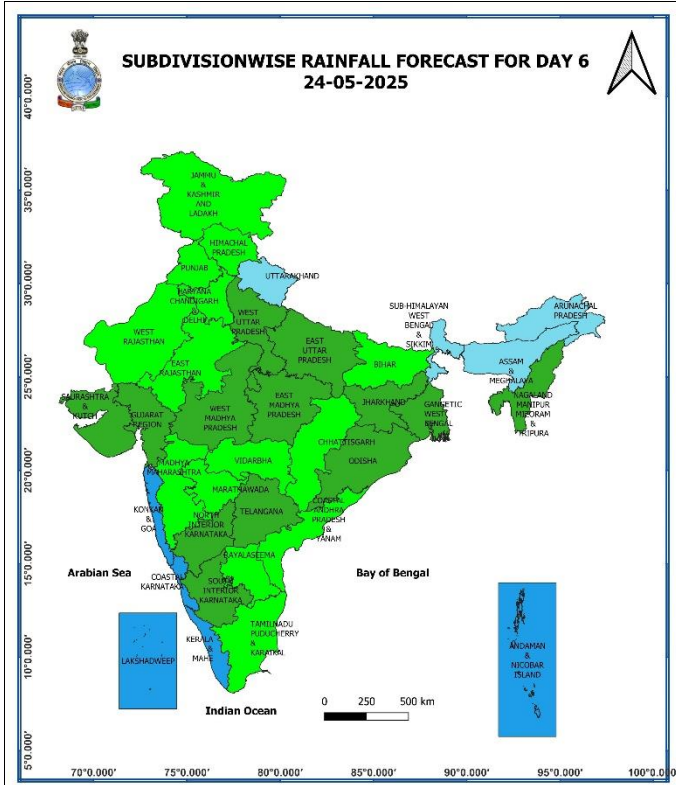
22nd May (Day 4)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Costal Karnataka, Konkan & Goa, Madhya Maharashtra and North Interior Karnataka.
- ❖ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Bihar, Coastal Andhra Pradesh and Kerala & Mahe.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over East Rajasthan, Konkan & Goa and Madhya Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andhra Pradesh, Chhattisgarh, Jharkhand, Madhya Pradesh, Odisha, Saurashtra & Kutch, Uttarakhand and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, East Uttar Pradesh, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Punjab, Telangana and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** likely at isolated places over West Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, along and off South Sri Lanka coast, 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 Maharashtra coast, Goa adjoining Eastcentral Arabian Sea, Kerala, Karnataka coasts and Lakshadweep area.



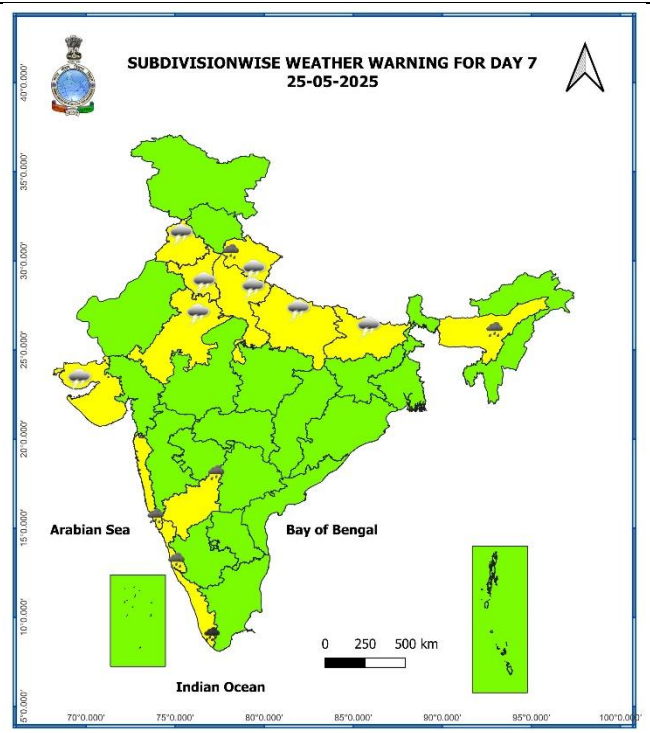
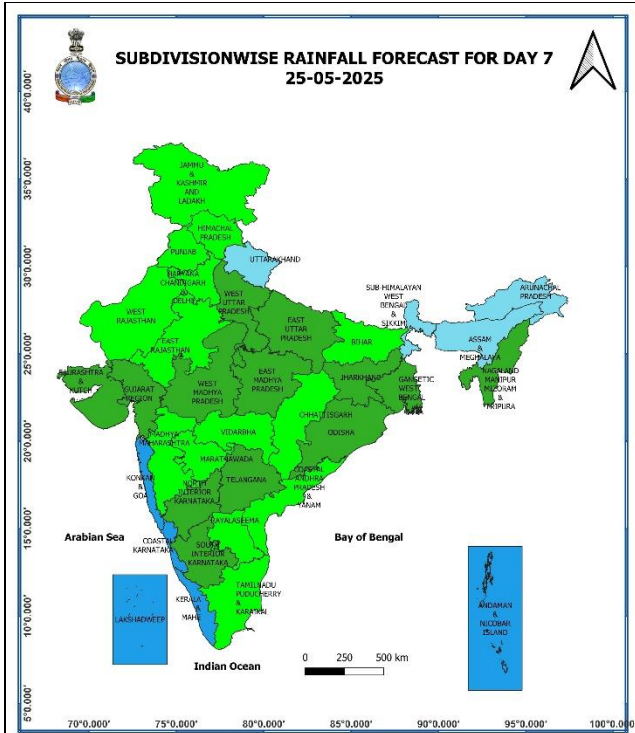
23rd May (Day 5)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Kerala & Mahe.
- ❖ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Costal Karnataka, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over East Rajasthan, Konkan & Goa and Madhya Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Uttarakhand, West Rajasthan and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab and Saurashtra & Kutch.



24th May (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Kerala & Mahe.
- ❖ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Costal Karnataka, Konkan & Goa, North Interior Karnataka and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over East Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab, Saurashtra & Kutch and Uttar Pradesh.



25th May (Day 7)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Kerala & Mahe.
- ❖ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Costal Karnataka, Konkan & Goa, North Interior Karnataka and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over East Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab, Saurashtra & Kutch and Uttar Pradesh.

Weather Outlook for subsequent 3 days (During 26th May- 28th 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.

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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

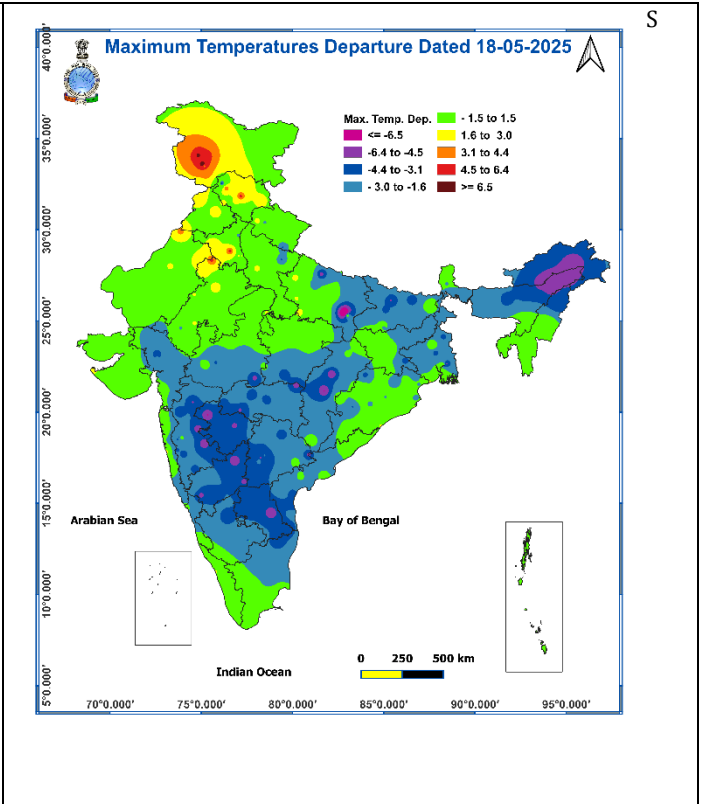
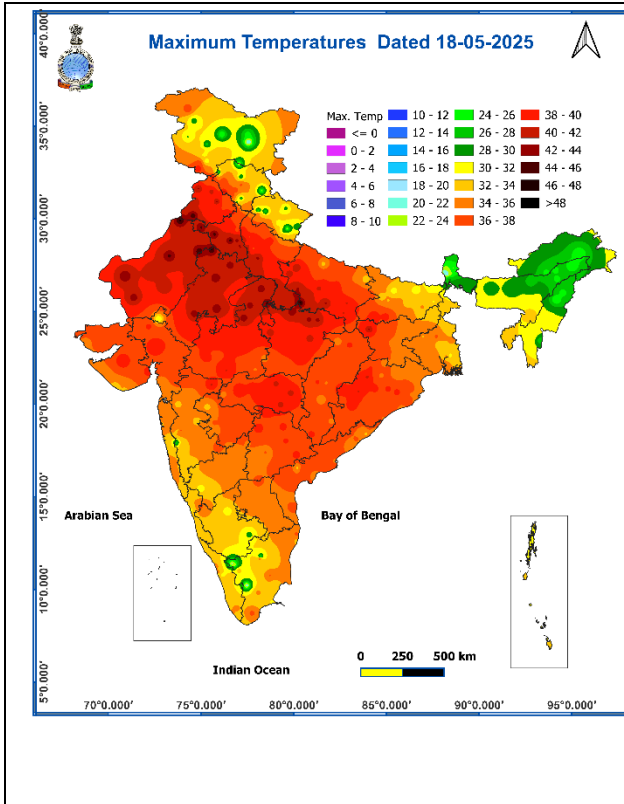


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

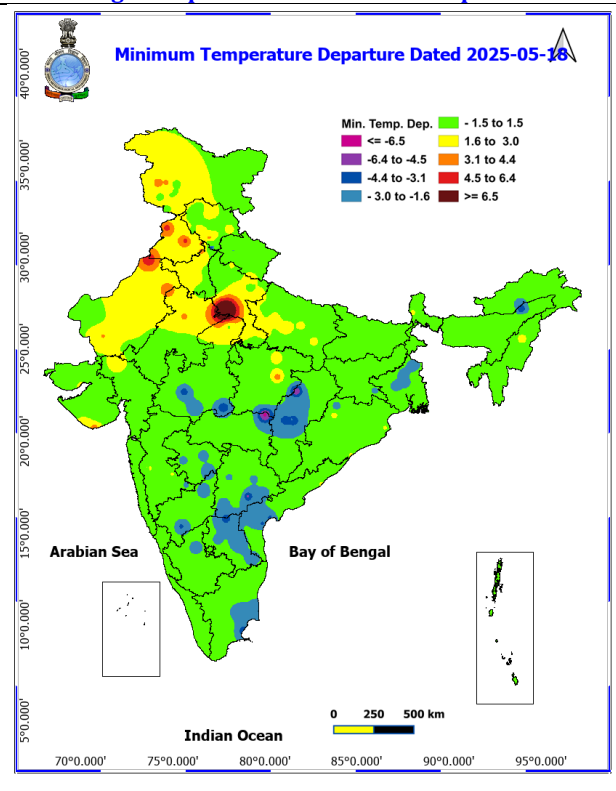
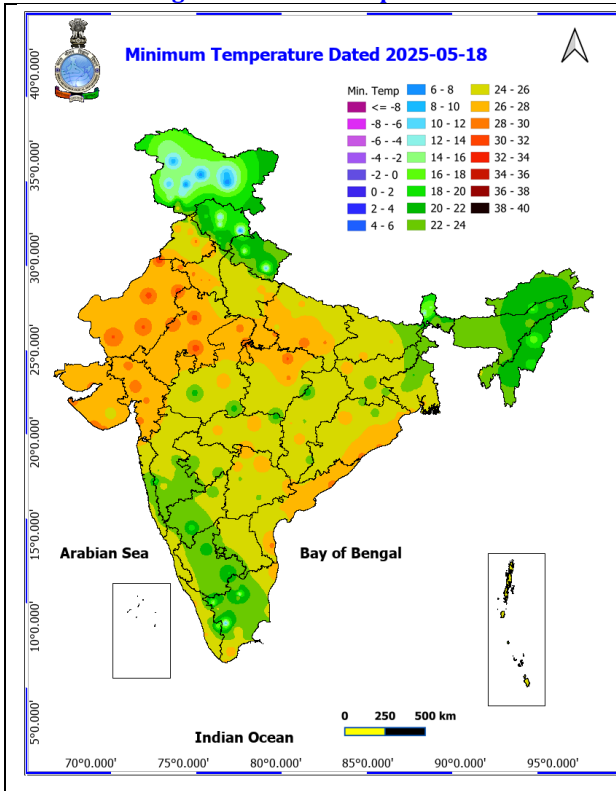


Fig. 5: Advance of Southwest Monsoon 2025

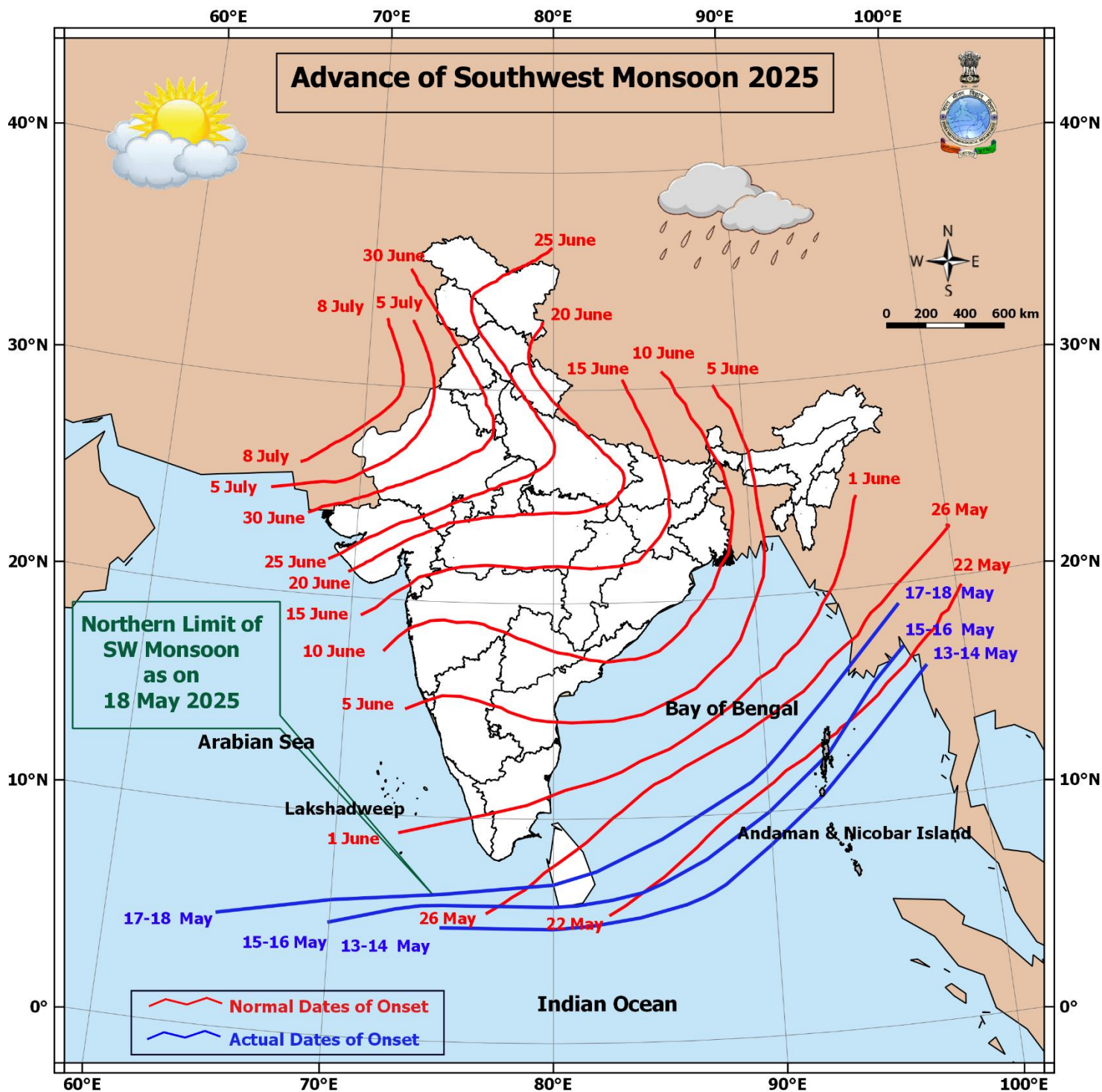
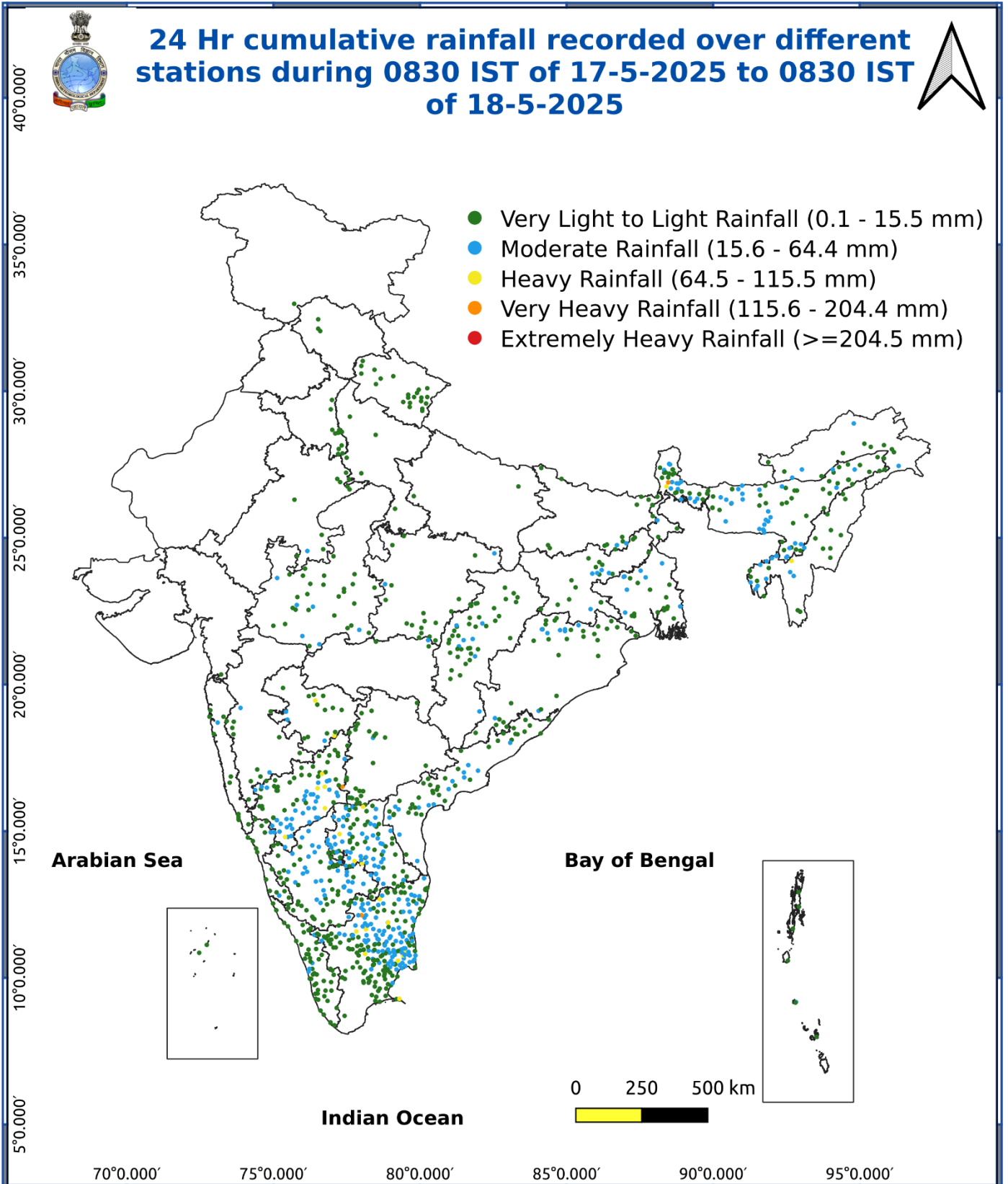


Fig. 6: Accumulated Rainfall (mm) during past 24 hours

* 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)



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Impact & Action Suggested due to very heavy rainfall over

- ❖ **Extremely heavy rainfall** at isolated places over Coastal Karnataka on 20th May.
- ❖ **Very heavy rainfall** over Assam & Meghalaya, South Interior Karnataka during 19th-20th May. Sub-Himalayan West Bengal & Sikkim on 20th; Konkan, Coastal Karnataka, Konkan during 20th – 22nd and Madhya Maharashtra, Madhya Maharashtra on 21st & 22nd; over North Interior Karnataka during 19th-22nd; ghats area of Tamil Nadu on 20th May, 2025.

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** over Konkan & Goa during 20th-23rd; Madhya Maharashtra during 20th-23rd; Marathwada on 20th May. Sub-Himalayan West Bengal & Sikkim on 20th; Bihar during 19th-20th; Jharkhand, Vidarbha on 19th; Chhattisgarh during 20th-22nd May.
- ✓ **Isolated hailstorm** very likely over Himachal Pradesh on 19th and over Uttarakhand on 19th & 20th 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 West Rajasthan during 19th-22nd 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

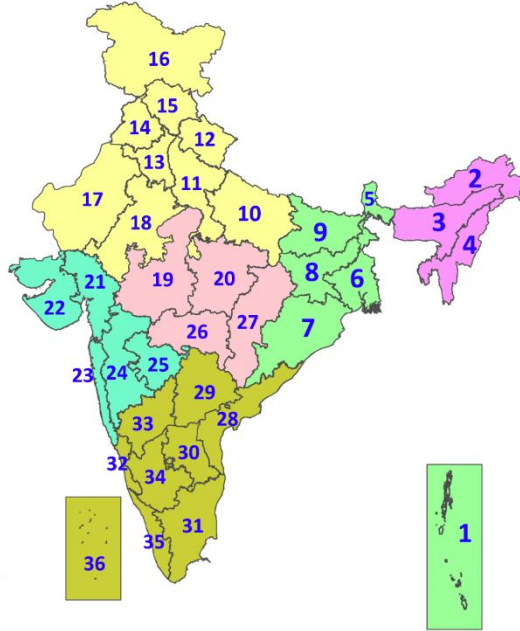
- In West Bengal & Sikkim, Bihar, Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Kerala, Karnataka, Rayalaseema, Arunachal Pradesh, Assam & Meghalaya, Tripura and Nagaland, drain excess water and ensure proper drainage in fields with standing crops and vegetables.
- In Himachal Pradesh and Uttarakhand, 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 Jammu & Kashmir 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 and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty of drinking water to animals.

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)

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

COLOUR CODED WARNING

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

Probabilistic Forecast

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

DEFINITION/CRITERIA

Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *

Heat Wave

When maximum temperature of a station reaches $\geq 40^\circ\text{C}$ for plains and $\geq 30^\circ\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$

Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

Severe Warm Night: When minimum temperature departure $> 6.4^\circ\text{C}$.

Cold Wave

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

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

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

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^\circ\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ\text{C}$

(c) For Coastal Stations

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

Cold Day

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

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

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

Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres

Thunderstorm

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

Dust/Sand Storm

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

Frost

Ice deposits on ground

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

Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph

Sea State

Effect of various waves in the sea over specific area

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

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

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

Cyclone

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

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

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

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

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