

2026-10-09

Time of Issue: 08:06:00 hours IST  
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Systems and Warnings:

Northwest India:

- **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 10th October; Uttarakhand on 9th October.
- **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 9th October, on 11th October and during 13th-14th October; Himachal Pradesh during 13th-14th October; Uttarakhand during 10th-14th October.
- **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 9th-14th October; West Uttar Pradesh during 9th-11th October; East Uttar Pradesh during 9th-10th October; West Rajasthan during 11th-12th October; East Rajasthan on 12th October.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Uttarakhand on 9th October, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Uttarakhand on 10th October.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Haryana Chandigarh & Delhi and Punjab during 10th-11th October; West Rajasthan on 11th October.
- Isolated **thunderstorm & lightning** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 9th-10th October and during 13th-14th October.
- Isolated **heavy rainfall** likely over Uttarakhand on 9th October.

Central India:

- **Isolated to Scattered** rainfall likely over East Madhya Pradesh during 9th-11th October; Chhattisgarh on 9th October and on 14th October.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over East Madhya Pradesh on 9th October and on 11th October.

East India:

- **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands on 9th October and during 12th-14th October; Sub-Himalayan West Bengal & Sikkim during 10th-11th October; Gangetic West Bengal during 9th-10th October and on 14th October; Jharkhand during 9th-10th October; Bihar during 9th-11th October; Odisha during 9th-14th October.
- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 10th-11th October; Sub-Himalayan West Bengal & Sikkim on 9th October.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Bihar on 9th October, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim, Jharkhand and Odisha on 9th October.

Northeast India:

- **Isolated to Scattered** rainfall likely over Arunachal Pradesh during 9th-10th October; Assam & Meghalaya during 9th-11th October and during 13th-14th October; Nagaland, Manipur, Mizoram & Tripura during 9th-14th October.
- Isolated **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 9th October.

South Peninsular India:

- **Isolated to Scattered** rainfall likely over Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Rayalaseema,

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South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal during 9th-14th October; Kerala & Mahe during 11th-13th October; Lakshadweep during 11th-14th October.

- **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe during 9th-10th October and on 14th October; Lakshadweep during 9th-10th October.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 9th-12th October; Kerala & Mahe and Lakshadweep during 9th-10th October, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Kerala & Mahe during 11th-12th October; Coastal Andhra Pradesh & Yanam and Rayalaseema during 9th-10th October.
- Isolated **thunderstorm & lightning** likely over South Interior Karnataka during 9th-10th October.
- Isolated **heavy rainfall** likely over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during 9th-10th October; South Interior Karnataka on 9th October.
- Strong Surface Winds likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 9th-10th October.

**Heat Wave, Hot & Humid weather and Warm Night conditions warning:**

- **Hot and humid** weather conditions likely to prevail over Konkan & Goa during 9th-10th October.

#### Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Uttarakhand, Sub-himalayan West Bengal & Sikkim, Gangetic West Bengal and Jammu & Kashmir and Ladakh; **at many places** over Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Punjab, East Uttar Pradesh, Jharkhand, Odisha, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Tamilnadu Puducherry & Karaikal; **Dry** over rest of the country.

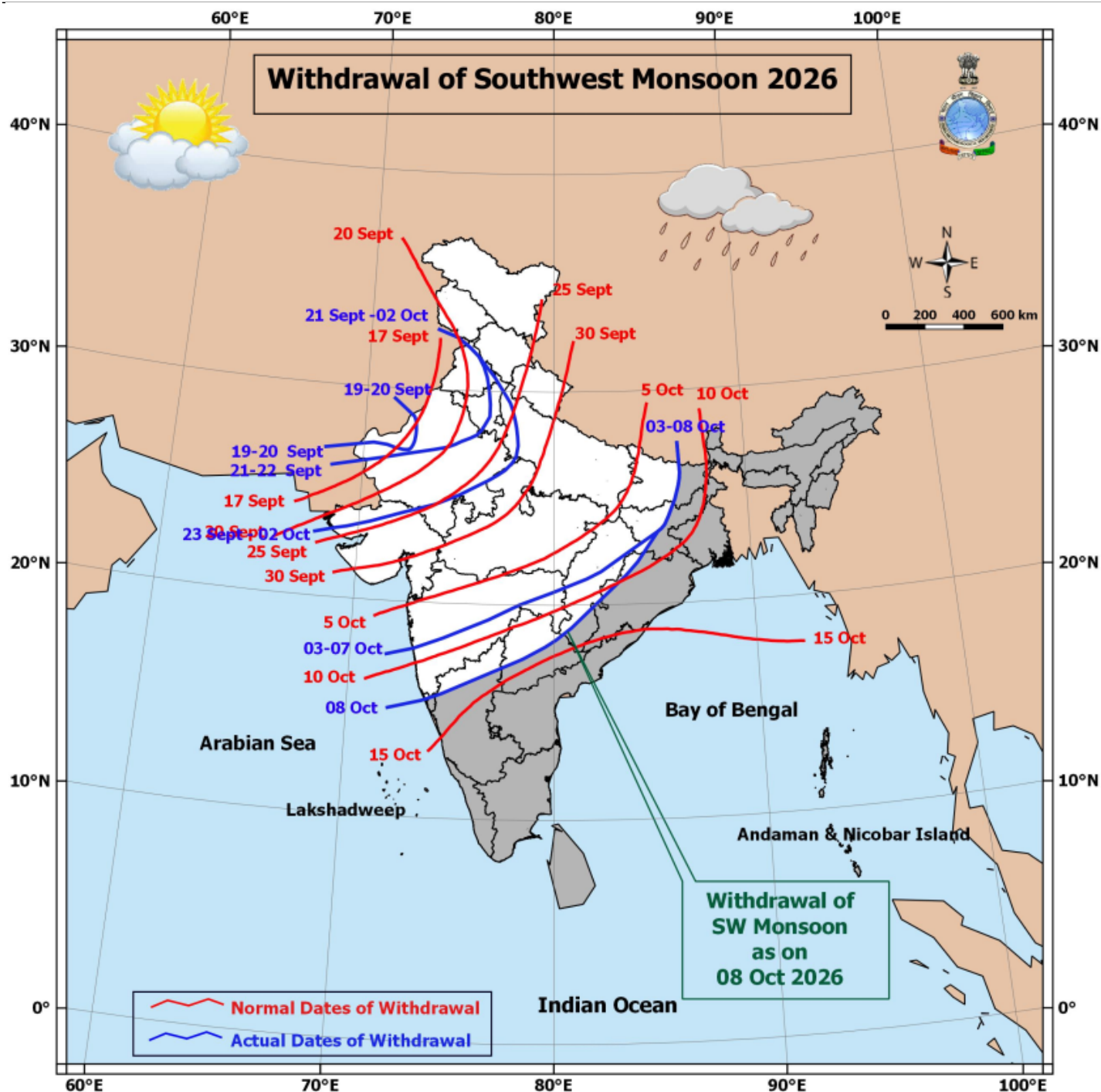
❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Assam & Meghalaya**: Guwahati (dist Kamrup Metropolitan) 6, Dhubri (dist Dhubri) 4, Barapani/Shillong (dist East Khasi Hills) 3; **Kerala & Mahe**: Thiruvananthapuram-city (dist Thiruvananthapuram) 3; **Nagaland, Manipur, Mizoram & Tripura**: Agartala AP (dist West Tripura) 2; **Gangetic West Bengal**: Kolkata (dum Dum) AP (dist North 24 Parganas) 2; Jammu & Kashmir And Ladakh: Katra (dist Reasi) 2.

❖ **Minimum Temperature Departures (as on 08-10-2026)**: **markedly above normal(> 5.1°C)** at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya and West Rajasthan. **appreciably above normal(3.1°C to 5.0°C)** at few places over Punjab; at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Bihar, East Uttar Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. **above normal(1.6°C to 3.0°C)** at many places over Andaman & Nicobar Islands and Coastal Karnataka; at few places over Haryana-Chandigarh-Delhi, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; at isolated places over Gangetic West Bengal, Odisha, Bihar, West Uttar Pradesh, Punjab, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Vidarbha and Telangana. **near normal(-1.5°C to 1.5°C)** at many places over Gangetic West Bengal, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka, Kerala & Mahe and Lakshadweep; at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, Saurashtra & Kutch, Marathwada and South Interior Karnataka; at few places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Bihar, Haryana-Chandigarh-Delhi, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka; at isolated places over Andaman & Nicobar Islands, Punjab and East Rajasthan. **The lowest minimum temperature** of 15.0°C was reported at HALFLONG (ASSAM) over the Plains of India.

❖ **Maximum Temperature Departures (as on 08-10-2026)**: **markedly above normal(> 5.1°C)** at few places over Vidarbha; at isolated places over Konkan & Goa, Madhya Maharashtra, Telangana and Rayalaseema. **appreciably above normal(3.1°C to 5.0°C)** at many places over Marathwada; at most places over North Interior Karnataka; at few places over East Rajasthan, Coastal Karnataka and Kerala & Mahe; at isolated places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, Saurashtra & Kutch and Coastal Andhra Pradesh & Yanam. **above normal(1.6°C to 3.0°C)** at many places over Gujarat Region and Lakshadweep; at most places over Arunachal Pradesh; at few places over Andaman & Nicobar Islands, Assam & Meghalaya, East Madhya Pradesh, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka; at isolated places over Gangetic West Bengal and Odisha. **near normal(-1.5°C to 1.5°C)** at most places over Nagaland, Manipur, Mizoram & Tripura, Haryana-Chandigarh-Delhi, Himachal Pradesh and West Rajasthan; at few places over West Uttar Pradesh and Punjab; at isolated places over Sub Himalayan West Bengal & Sikkim and Jharkhand. **The highest maximum temperature** of 39.7°C was reported at PILANI (RAJASTHAN).

**Meteorological Analysis (Based on 0530 hours IST)**

- The line of withdrawal of **Southwest Monsoon** continues to pass through 27.5°N/86.5°E, Supaul, Ranchi, Sundargarh, Bargarh, Bijapur, Hyderabad, Belagavi, Panjim and 15°N/72°E.
- Conditions are becoming favourable for further withdrawal of **Southwest Monsoon** from some more parts of eastern India and Northern Peninsula, and many parts of northeast India during next 3-4 days.
- The **upper air cyclonic circulation** over north Bangladesh & adjoining Assam persists and now seen between 0.9 & 5.8 km above mean sea level.
- The **trough** runs from north Bangladesh & adjoining Assam to Telangana across Jharkhand, Odisha and Chhattisgarh persists and now seen between 5.8 & 7.6 km above mean sea level tilting northwestwards with height.
- The **upper air cyclonic circulation** over East Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over northwest Uttar Pradesh now lies over Haryana & adjoining northwest Uttar Pradesh and extends upto 1.5 km above mean sea level.
- A **trough** runs from Comorin area to Marathwada across Tamil Nadu, Interior Karnataka at 0.9 km above mean sea level.
- The **Western Disturbance** as a cyclonic circulation over north Pakistan & neighbourhood at 3.1 km above mean sea level persists.
- The **trough** from the southeast Arabian Sea to South Interior Karnataka between 3.1 km & 5.8 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** over south Kerala coast at 0.9 km above mean sea level has become less marked.

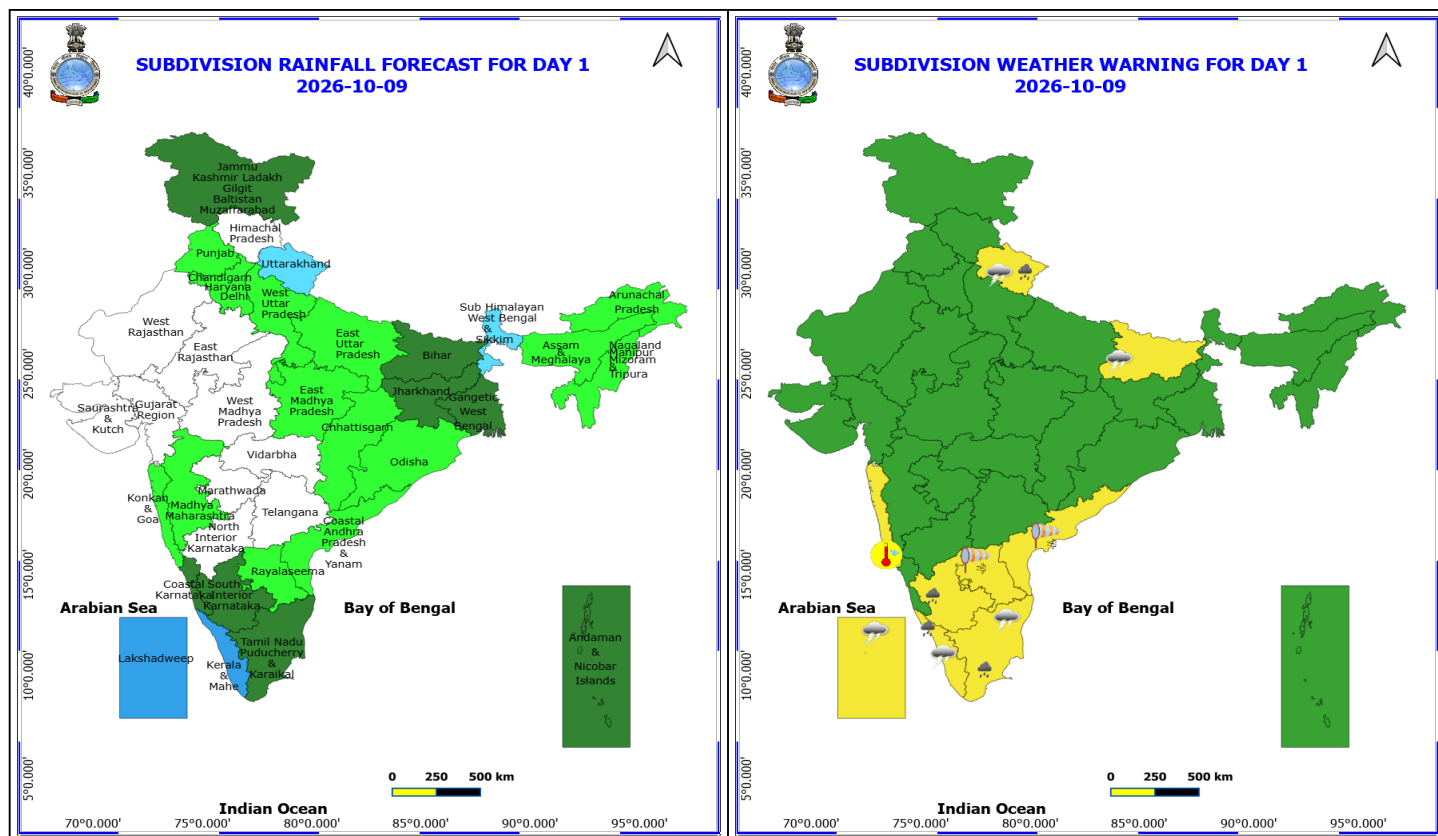


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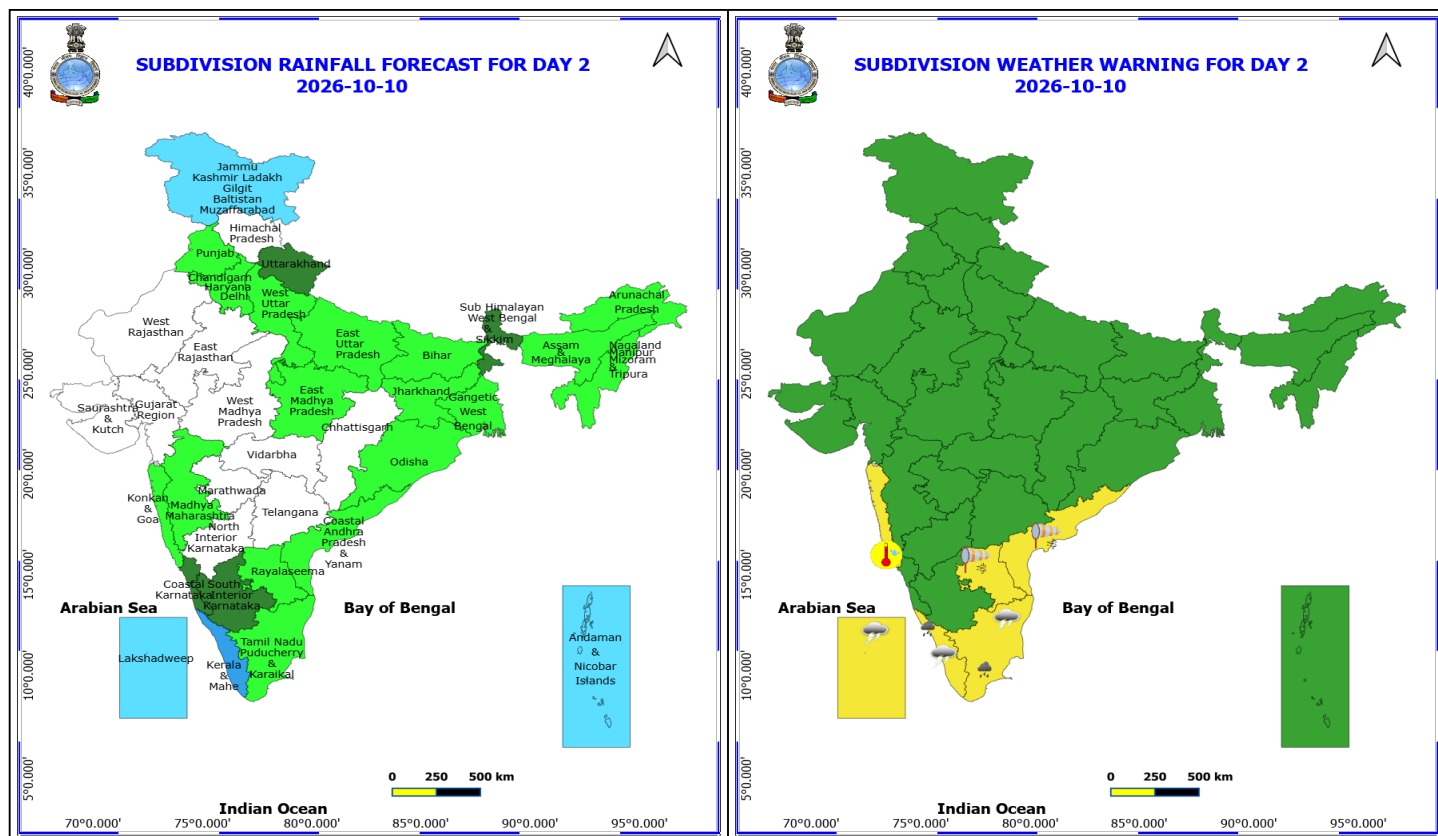
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## 9 October (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Kerala & Mahe, Lakshadweep, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, East Madhya Pradesh, Jharkhand, Odisha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura and South Interior Karnataka.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh.
- ❖ **Hot and Humid weather** very likely at isolated places over Konkan & Goa.

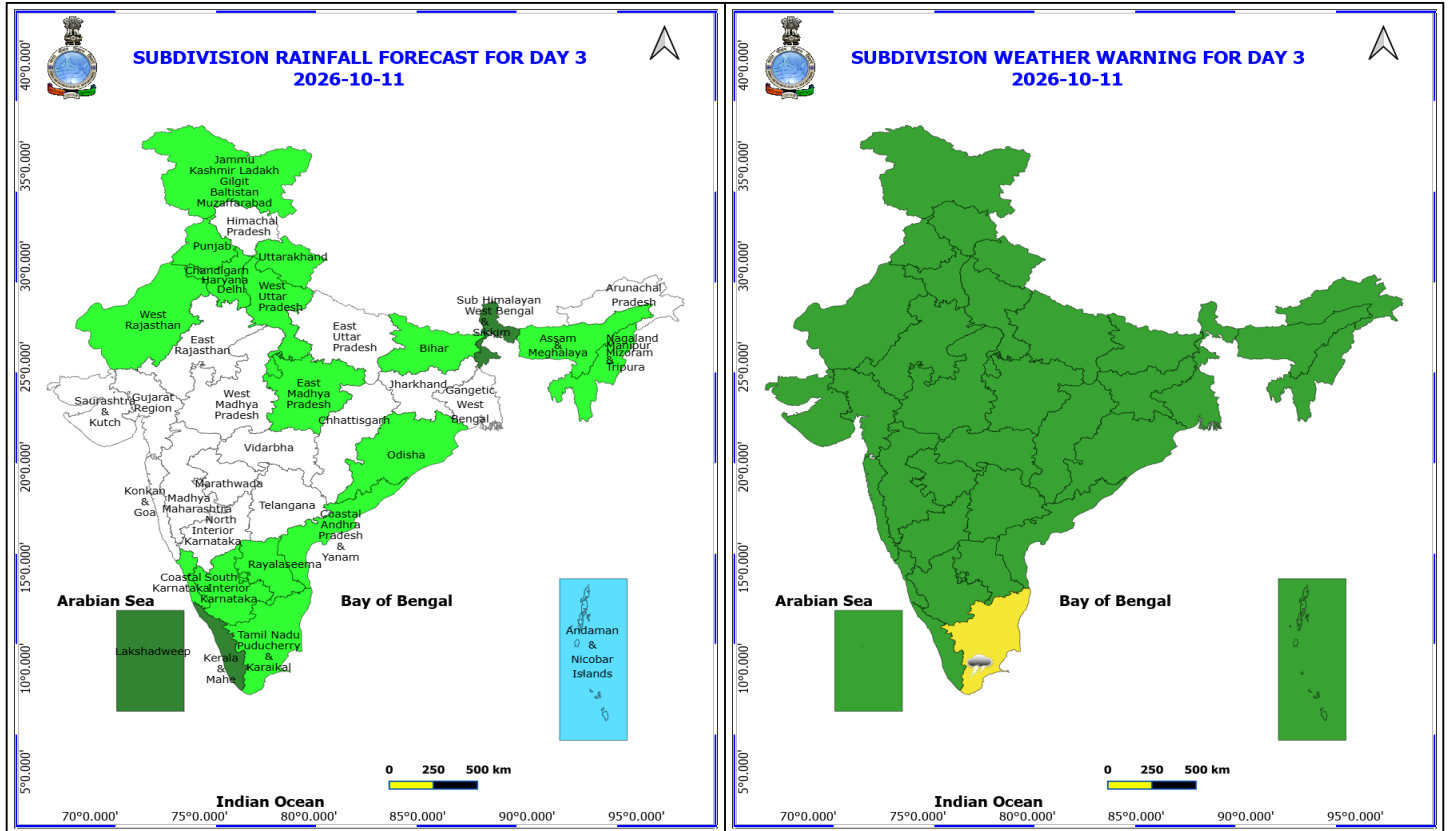
**No Fishermen Warning**



## 10 October (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Haryana, Chandigarh & Delhi, Punjab, Uttarakhand and West Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and South Interior Karnataka.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh.
- ❖ **Hot and Humid weather** very likely at isolated places over Konkan & Goa.

**No Fishermen Warning**



### 11 October (Day 3)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over East Madhya Pradesh, Haryana, Chandigarh & Delhi, Kerala & Mahe, Punjab and West Rajasthan.

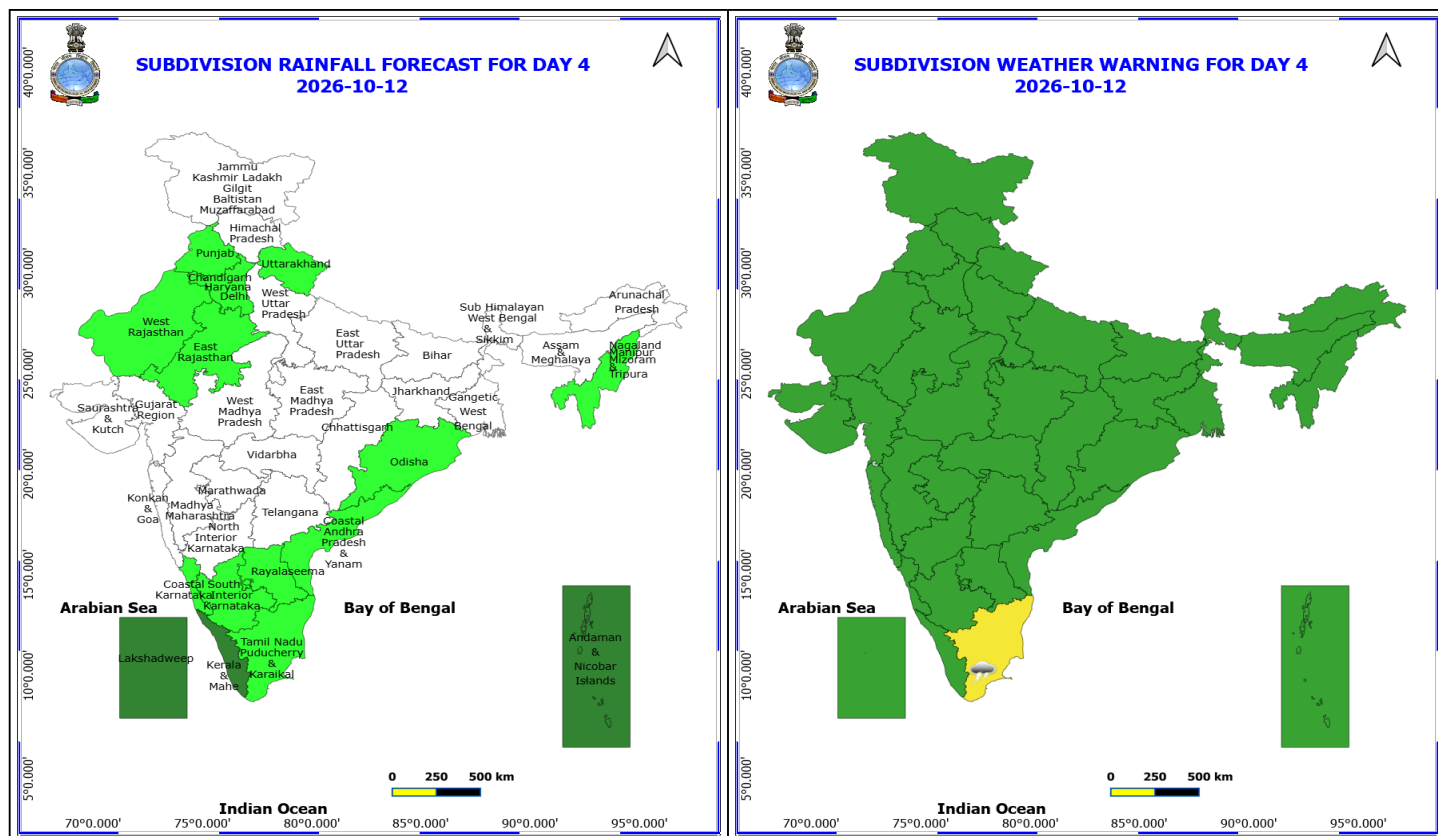
**No Fishermen Warning**

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## 12 October (Day 4)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Kerala & Mahe.

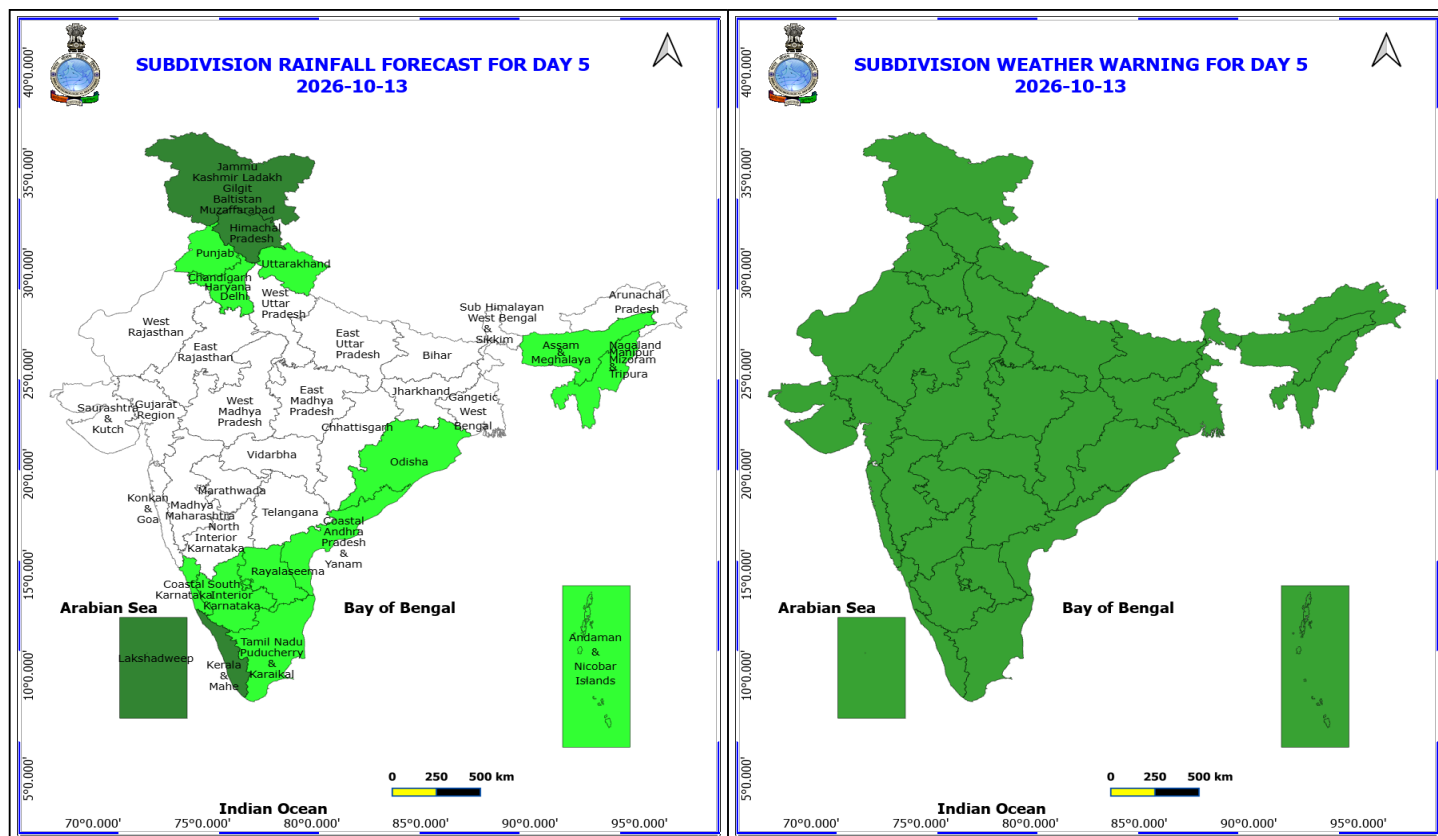
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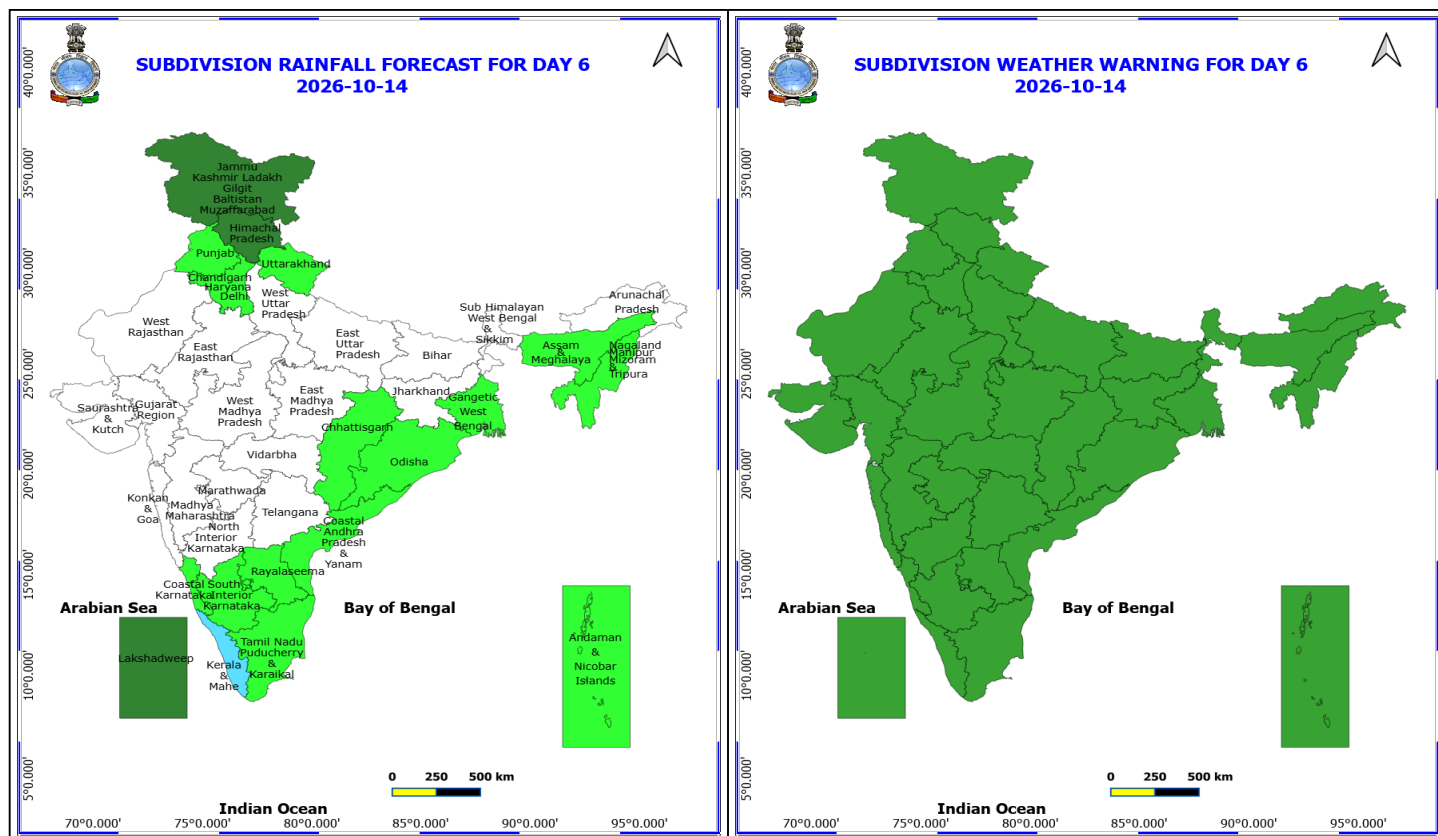
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### 13 October (Day 5)

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

**No Fishermen Warning**



#### 14 October (Day 6)

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

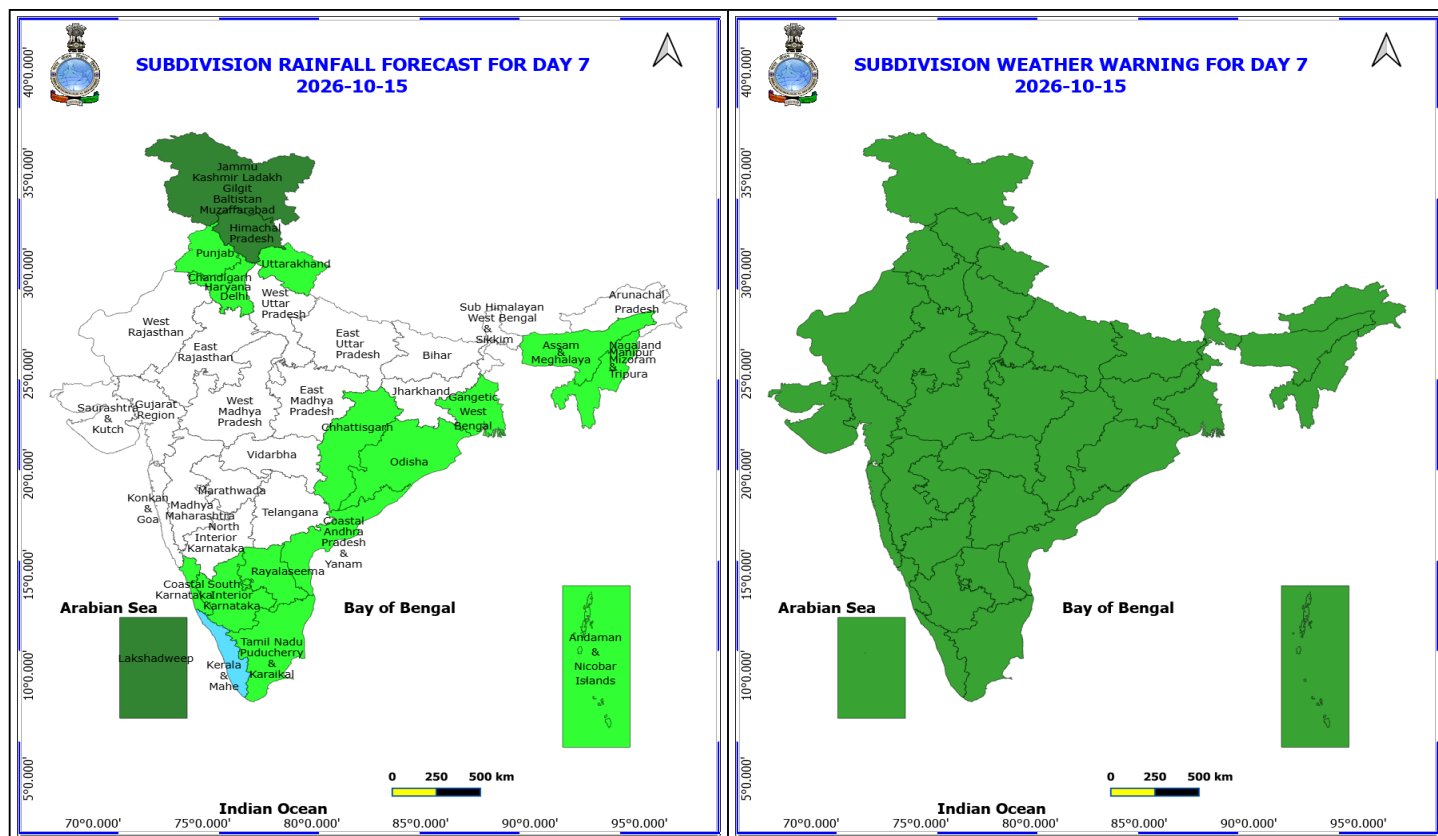
**No Fishermen Warning**

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### 15 October (Day 7)

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

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## Table-1

### 7 Days Rainfall Forecast

| S.No. | Subdivision                  | 9- Oct | 10- Oct | 11- Oct | 12- Oct | 13- Oct | 14- Oct | 15- Oct |
|-------|------------------------------|--------|---------|---------|---------|---------|---------|---------|
|       |                              | Day 1  | Day 2   | Day 3   | Day 4   | Day 5   | Day 6   | Day 7   |
| 1     | ANDAMAN & NICOBAR ISLANDS    | SCT    | FWS     | FWS     | SCT     | ISOL    | ISOL    | ISOL    |
| 2     | ARUNACHAL PRADESH            | ISOL   | ISOL    | DRY     | DRY     | DRY     | DRY     | DRY     |
| 3     | ASSAM & MEHGHALAYA           | ISOL   | ISOL    | ISOL    | DRY     | ISOL    | ISOL    | ISOL    |
| 4     | N. M. M. & T.                | ISOL   | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 5     | S.H. WEST BENGAL & SIKKIM    | FWS    | SCT     | SCT     | DRY     | DRY     | DRY     | DRY     |
| 6     | GANGETIC WEST BENGAL         | SCT    | ISOL    | DRY     | DRY     | DRY     | ISOL    | ISOL    |
| 7     | ODISHA                       | ISOL   | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 8     | JHARKHAND                    | SCT    | ISOL    | DRY     | DRY     | DRY     | DRY     | DRY     |
| 9     | BIHAR                        | SCT    | ISOL    | ISOL    | DRY     | DRY     | DRY     | DRY     |
| 10    | EAST UTTAR PRADESH           | ISOL   | ISOL    | DRY     | DRY     | DRY     | DRY     | DRY     |
| 11    | WEST UTTAR PRADESH           | ISOL   | ISOL    | ISOL    | DRY     | DRY     | DRY     | DRY     |
| 12    | UTTARAKHAND                  | FWS    | SCT     | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 13    | HARYANA, CHD & DELHI         | ISOL   | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 14    | PUNJAB                       | ISOL   | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 15    | HIMACHAL PRADESH             | DRY    | DRY     | DRY     | DRY     | SCT     | SCT     | SCT     |
| 16    | JAMMU AND KASHMIR AND LADAKH | SCT    | FWS     | ISOL    | DRY     | SCT     | SCT     | SCT     |
| 17    | WEST RAJASTHAN               | DRY    | DRY     | ISOL    | ISOL    | DRY     | DRY     | DRY     |
| 18    | EAST RAJASTHAN               | DRY    | DRY     | DRY     | ISOL    | DRY     | DRY     | DRY     |
| 19    | WEST MADHYA PRADESH          | DRY    | DRY     | DRY     | DRY     | DRY     | DRY     | DRY     |
| 20    | EAST MADHYA PRADESH          | ISOL   | ISOL    | ISOL    | DRY     | DRY     | DRY     | DRY     |
| 21    | GUJRAT REGION                | DRY    | DRY     | DRY     | DRY     | DRY     | DRY     | DRY     |
| 22    | SAURASHTRA & KUTCH           | DRY    | DRY     | DRY     | DRY     | DRY     | DRY     | DRY     |
| 23    | KONKAN & GOA                 | ISOL   | ISOL    | DRY     | DRY     | DRY     | DRY     | DRY     |
| 24    | MADHYA MAHARASHTRA           | ISOL   | ISOL    | DRY     | DRY     | DRY     | DRY     | DRY     |
| 25    | MARATHWADA                   | DRY    | DRY     | DRY     | DRY     | DRY     | DRY     | DRY     |
| 26    | VIDARBHA                     | DRY    | DRY     | DRY     | DRY     | DRY     | DRY     | DRY     |
| 27    | CHATTISGARH                  | ISOL   | DRY     | DRY     | DRY     | DRY     | ISOL    | ISOL    |
| 28    | COASTAL ANDHRA PRADESH       | ISOL   | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 29    | TELANGANA                    | DRY    | DRY     | DRY     | DRY     | DRY     | DRY     | DRY     |
| 30    | RAYALASEEMA                  | ISOL   | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 31    | TAMILNADU & PUDUCHERRY       | SCT    | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 32    | COSTAL KARNATAKA             | SCT    | SCT     | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 33    | NORTH INTERIOR KARNATAKA     | DRY    | DRY     | DRY     | DRY     | DRY     | DRY     | DRY     |
| 34    | SOUTH INTERIOR KARNATAKA     | SCT    | SCT     | ISOL    | ISOL    | ISOL    | ISOL    | ISOL    |
| 35    | KERALA                       | WS     | WS      | SCT     | SCT     | SCT     | FWS     | FWS     |
| 36    | LAKSHDWEAP                   | WS     | FWS     | SCT     | SCT     | SCT     | SCT     | SCT     |

| Legend | Category                      | %Stations |
|--------|-------------------------------|-----------|
| WS     | Widespread/Most Places        | 76-100    |
| FWS    | Fairly Widespread/Many Places | 51-75     |
| SCT    | Scattered/ A Few Places       | 26-50     |
| ISOL   | Isolated Places               | 1-25      |
| DRY    | No Rain                       | 0         |

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Fig. 1: Maximum Temperatures Dated 2026-10-08

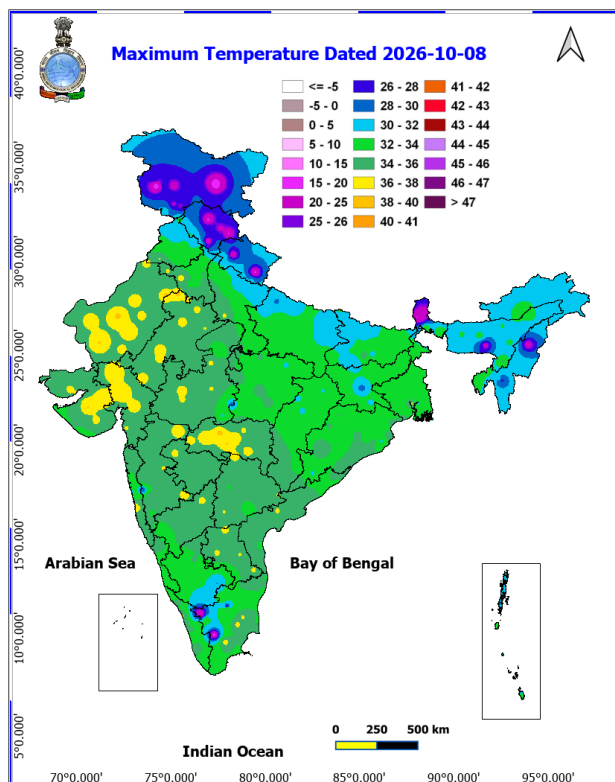


Fig. 2: Departure of Maximum Temp. Dated 2026-10-08

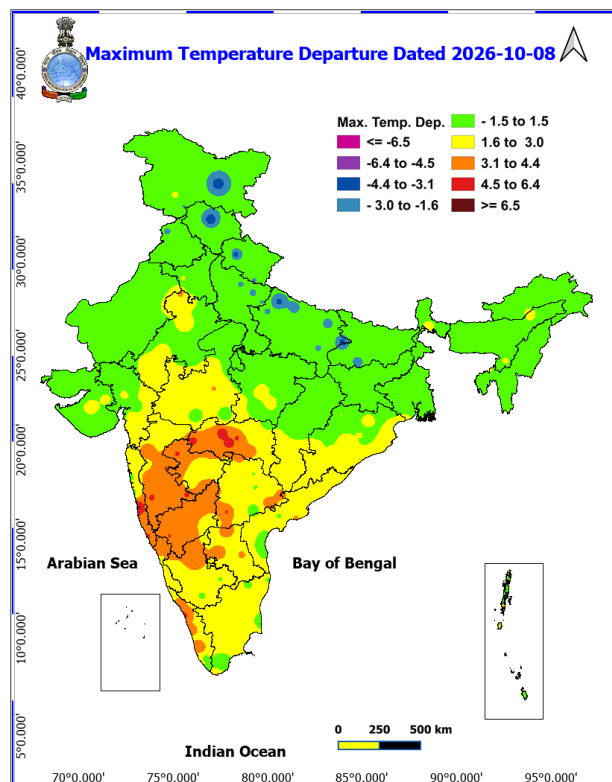


Fig. 3: Minimum Temperatures Dated 2026-10-08

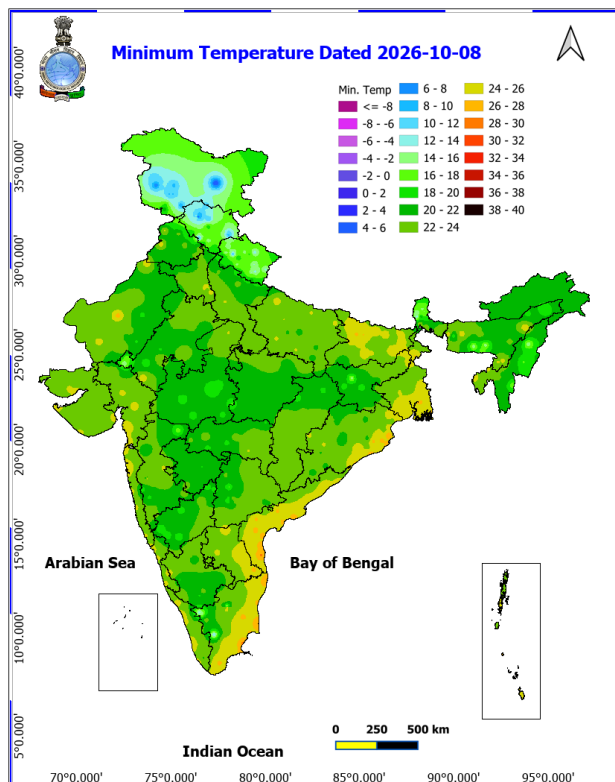
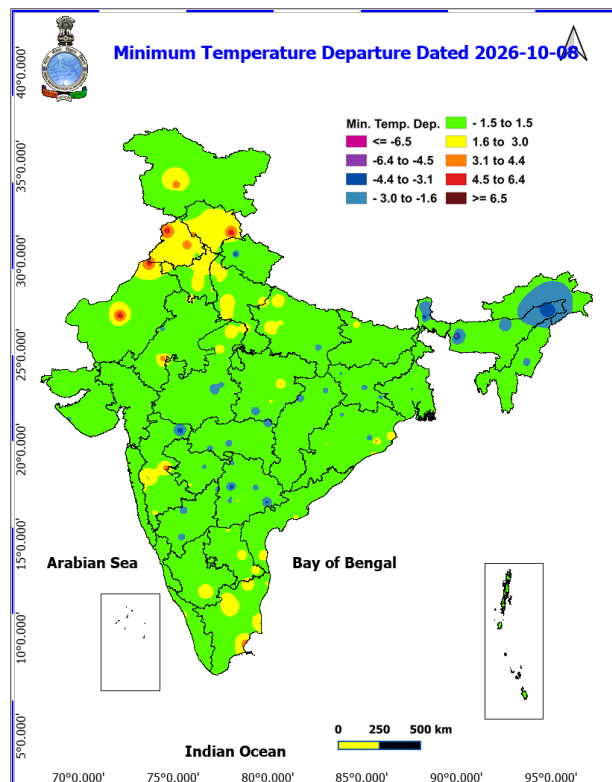
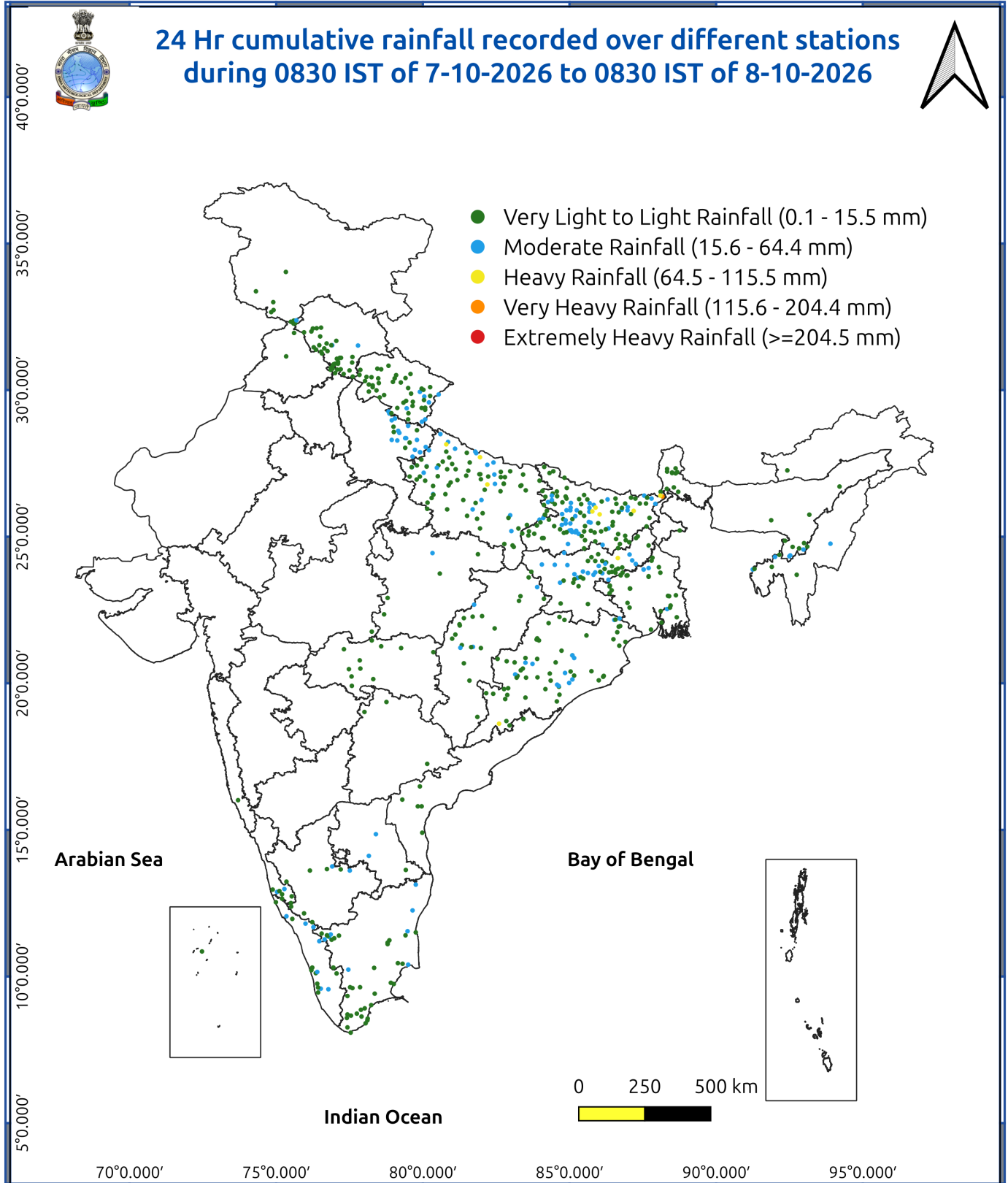


Fig. 4: Departure of Minimum Temp. Dated 2026-10-08





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## Impact and Actions

### Impact Expected and Action Suggested due to very heavy/extremely heavy rainfall:

- Isolated heavy rainfall likely over Uttarakhand on 9th; over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during 9th-10th October; South Interior Karnataka on 9th October.

### Impact expected:

- Breaking of tree branches, uprooting of small trees like banana, papaya, drum sticks. Strong wind and rain may damage plantation, horticulture and standing crops.
- Partial damage to vulnerable structures due to strong winds and rain.
- Minor damage to kutcha houses/walls, huts and roads due to heavy rain.
- Loose objects may fly.
- Small ships, trawlers and boats may be affected.
- Road and rail traffic may be affected due to heavy rain and squally winds.
- There could be localised landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- Occasional reduction in visibility due to heavy rainfall.
- Helicopter services may get affected.

### Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Take safe shelters; do not take shelter under trees, as there could be lightning.
- In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- Tourism and recreational activities to be regulated.
- Onshore and offshore activities to be judiciously regulated.
- Helicopter services to be regulated.

## Agromet advisories for various parts of the country

### Agromet advisories for likely impact of Heavy Rainfall

- In **Tamil Nadu**, ensure proper drainage in sorghum, maize, black gram and vegetable fields to prevent water stagnation. Provide adequate support to banana, papaya and moringa and undertake propping in sugarcane to minimize lodging. Harvest mature paddy during suitable dry intervals and keep the produce in safe, dry places.
- In **Keralam**, ensure effective drainage in paddy, banana, coconut, pepper, ginger, turmeric and vegetable fields, with priority to low-lying and waterlogged areas. Harvest mature paddy during clear weather and keep the produce in safe, dry places.
- In **South Interior Karnataka**, maintain proper drainage in standing crop fields. Harvest mature green gram, black gram, soybean wherever conditions permit and shift the produce to covered, safe storage.
- In **Gangetic West Bengal**, maintain adequate drainage in rice and other standing crop fields, particularly in areas prone to water accumulation, and keep field channels clear. Strengthen rice nursery bunds where required and harvest mature crops and vegetables during suitable dry intervals, keeping the produce in safe, dry places.
- In **Sub-Himalayan West Bengal**, maintain proper drainage in rice, ginger, tomato, brinjal, chilli and other vegetable fields and keep drainage channels clear. Strengthen bunds around rice fields and protect vegetable seedlings from excess rain. Harvest mature vegetables and tea leaves during rain-free periods and shift harvested produce to safe, dry places.
- In **Bihar**, ensure drainage in maize, sesame, pigeon pea and other standing crop fields to prevent prolonged water stagnation. Postpone irrigation, fertilizer application and plant-protection operations in excessively wet fields until soil conditions become suitable.

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- In **Uttarakhand**, maintain effective drainage in rice, sugarcane, soybean, green gram, black gram and vegetable fields, particularly in low-lying areas. Harvest mature rice, barnyard millet and maize during suitable dry intervals, storing the produce safely.
- In **Konkan and Goa**, maintain adequate moisture in standing crops and provide ventilation in protected cultivation and livestock shelters. Ensure clean drinking water for livestock and poultry and avoid unnecessary field operations during the hottest part of the day.

#### Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

#### Livestock / Poultry / Fisheries

Keep the animals inside the shed during heavy rainfall and provide them balanced feed.

Store the feed and fodder in a safe place to prevent spoilage.

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

#### Legends & abbreviations:

**Heavy Rain:**64.5115.5mm; **Very Heavy Rain:**115.6204.4mm; **Extremely Heavy Rain:** >204.4mm.

**Obsy:** Observatory; **Automatic Weather Station;** **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.

#### Region wise classification of meteorological Sub-Divisions:

**Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana Chandigarh & Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.

**Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.

**East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.

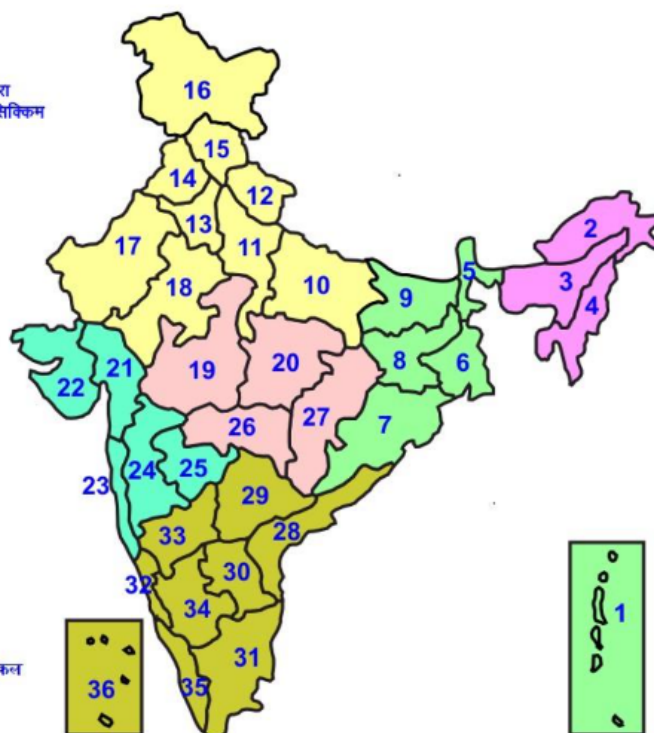
**Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

**West India:** Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (Konkan) & Goa, Madhya Maharashtra and Marathwada.

**South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & 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. Marathawada
26. Vidharbha
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)               |

### Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- 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                          |

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

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## LEGENDS

### WARNING

|                               |
|-------------------------------|
| <b>WARNING (TAKE ACTION)</b>  |
| <b>ALERT (BE PREPARED)</b>    |
| <b>WATCH (BE UPDATED)</b>     |
| <b>NO WARNING (NO ACTION)</b> |

### Probabilistic Forecast

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



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



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  $\geq 37^{\circ}\text{C}$



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  $> 6.4^{\circ}\text{C}$ .



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  $\leq 15^{\circ}\text{C}$



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



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



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



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



Ice deposits on ground

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



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

Moderate: Wind speed 52-61 kmph  
Severe: Wind speed 62-87 kmph  
Very Severe: Wind speed  $> 87$  kmph



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



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 Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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