

2026-10-18

Time of Issue: 21:08:00 hours IST  
(Night)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Systems and Warnings:

##### South Peninsular India:

- **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal during 18th-24th October; Coastal Karnataka during 18th-20th October and during 23rd-24th October; Coastal Andhra Pradesh & Yanam and Rayalaseema on 18th October.
- **Isolated to Scattered** rainfall likely over Coastal Karnataka during 21st-22nd October; North Interior Karnataka during 18th-24th October; Coastal Andhra Pradesh & Yanam and Rayalaseema during 19th-24th October; Telangana during 18th-21st October.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 18th-24th October; Coastal Andhra Pradesh & Yanam and Rayalaseema during 18th-20th October, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Kerala & Mahe, Lakshadweep, North Interior Karnataka and South Interior Karnataka during 18th-20th October; Coastal Andhra Pradesh & Yanam and Rayalaseema during 21st-22nd October; Telangana during 18th-21st October.
- Isolated **thunderstorm & lightning** likely over Kerala & Mahe and Lakshadweep during 21st-22nd October; Coastal Karnataka during 18th-20th October.
- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 22nd-24th October; Kerala & Mahe during 18th-24th October; Lakshadweep during 21st-23rd October; Coastal Karnataka on 18th October; South Interior Karnataka during 19th-24th October; Coastal Andhra Pradesh & Yanam and Rayalaseema during 19th-21st October with isolated **very heavy rainfall** also likely over Tamil Nadu, Puducherry & Karaikal during 18th-21st October; Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka on 18th October.
- **Strong Surface Winds** likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 18th-22nd October.

##### Northwest, Central, East & Northeast India:

- No significant weather likely over Northwest, Central, East, West & Northeast India during the week.

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#### Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at many places** over Odisha, Andaman & Nicobar Islands, Sub-himalayan West Bengal & Sikkim, Gangetic West Bengal, South Interior Karnataka, Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam, East Madhya Pradesh, Tamilnadu Puducherry & Karaikal, Coastal Karnataka and North Interior Karnataka; **Dry** over rest of the country.

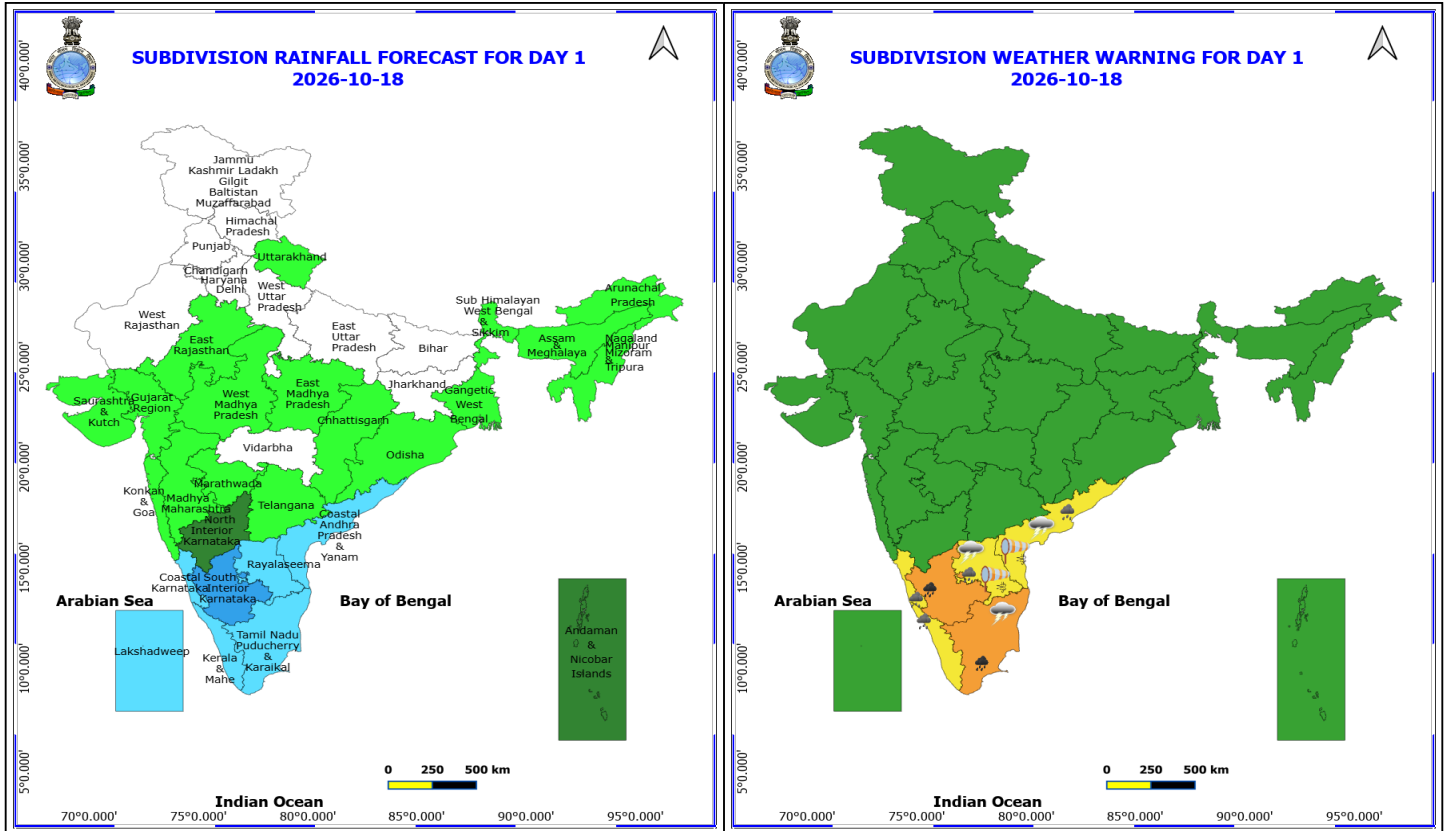
❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST to 1730 hours IST of today): **Andaman & Nicobar Islands**: Car Nicobar (dist Nicobar) 4; **South Interior Karnataka**: Chintamani (dist Kolar) 1; **Odisha**: Puri (dist Puri) 1; **Rayalaseema**: Cuddapah (dist Ysr) 1.

❖ **Minimum Temperature Departures (as on 18-10-2026): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, West Rajasthan, East Rajasthan, West Madhya Pradesh and Madhya Maharashtra. **appreciably above normal(3.1°C to 5.0°C)** at few places over East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Vidarbha and Chhattisgarh; at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Odisha, Bihar, West Uttar Pradesh, East Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Telangana and North Interior Karnataka. **above normal(1.6°C to 3.0°C)** at many places over West Rajasthan and Lakshadweep; at most places over Gujarat Region and Marathwada; at few places over Andaman & Nicobar Islands, Odisha, Bihar, East Uttar Pradesh, West Uttar Pradesh, West Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Vidarbha and Rayalaseema; at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Sub Himalayan West Bengal & Sikkim, Punjab, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh, Konkan & Goa, Chhattisgarh, Rayalaseema and North Interior Karnataka; at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Uttarakhand, Haryana-Chandigarh-Delhi, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe; at few places over Andaman & Nicobar Islands, Assam & Meghalaya, Odisha, Bihar, East Uttar Pradesh, West Uttar Pradesh, West Rajasthan, Saurashtra & Kutch, Vidarbha, Telangana and Lakshadweep; at isolated places over East Rajasthan, West Madhya Pradesh, Madhya Maharashtra and Marathwada. **The lowest minimum temperature** of 16.6°C was reported at LUDHIANA (PUNJAB) over the Plains of India.

❖ **Maximum Temperature Departures (as on 18-10-2026): markedly above normal(> 5.1°C)** at isolated places over Vidarbha. **appreciably above normal(3.1°C to 5.0°C)** at many places over Marathwada and Lakshadweep; at few places over Madhya Maharashtra and Telangana; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Saurashtra & Kutch, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and Kerala & Mahe. **above normal(1.6°C to 3.0°C)** at many places over Jharkhand; at few places over Andaman & Nicobar Islands, Arunachal Pradesh, Sub Himalayan West Bengal & Sikkim, Odisha, Uttarakhand, Gujarat Region and Chhattisgarh; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Bihar, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh and Konkan & Goa. **near normal(-1.5°C to 1.5°C)** at many places over East Uttar Pradesh, West Uttar Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad and South Interior Karnataka; at most places over Punjab, Himachal Pradesh and West Rajasthan; at few places over Haryana-Chandigarh-Delhi and Coastal Andhra Pradesh & Yanam. **The highest maximum temperature** of 39.9°C was reported at RAJKOT (A) (GUJARAT).

**Meteorological Analysis (Based on 1730 hours IST)**

- The **upper air cyclonic circulation** over West central Bay of Bengal & adjoining south Andhra Pradesh and Tamil Nadu coasts persists and now extends upto 5.8 km above mean sea level.
- The **upper air cyclonic circulation** over North Interior Karnataka & neighbourhood at 0.9 km above mean sea level persists.
- The **trough** from Lakshadweep to Westcentral Bay of Bengal across Karnataka, south Andhra Pradesh between 1.5 & 3.1 km above mean sea level persists.
- The **low pressure area** over southwest Arabian Sea lay as a **Well marked low pressure area** over the same region at 1730 hrs IST of today, the 18th October, 2026. The associated cyclonic circulation extends upto 9.6 km above mean sea level. It is very likely to intensify into a depression over the same region during next 24 hours. It is likely to move initially east-northeastwards, recurve gradually northwestwards and move towards Somalia coast during next 2-3 days.
- The **Western Disturbance** as a **cyclonic circulation** over Himachal Pradesh & adjoining Punjab at 3.1 km above mean sea level persists with a trough aloft in middle tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 70°E to the North of Lat. 32°N.
- The **upper air cyclonic circulation** over south Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- The **trough** from Southwest Rajasthan to Northeast Arabian sea at 3.1 km above mean sea level persists.
- The **upper air cyclonic circulation** over Gulf of Thailand & neighbourhood extending upto 1.5 km above mean sea level persists.



## 18 October (Day 1)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Coastal Karnataka and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, East Rajasthan, Interior Karnataka, Kerala & Mahe, Lakshadweep, Odisha, Telangana and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Chhattisgarh, Coastal Karnataka, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra and Marathwada.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh.

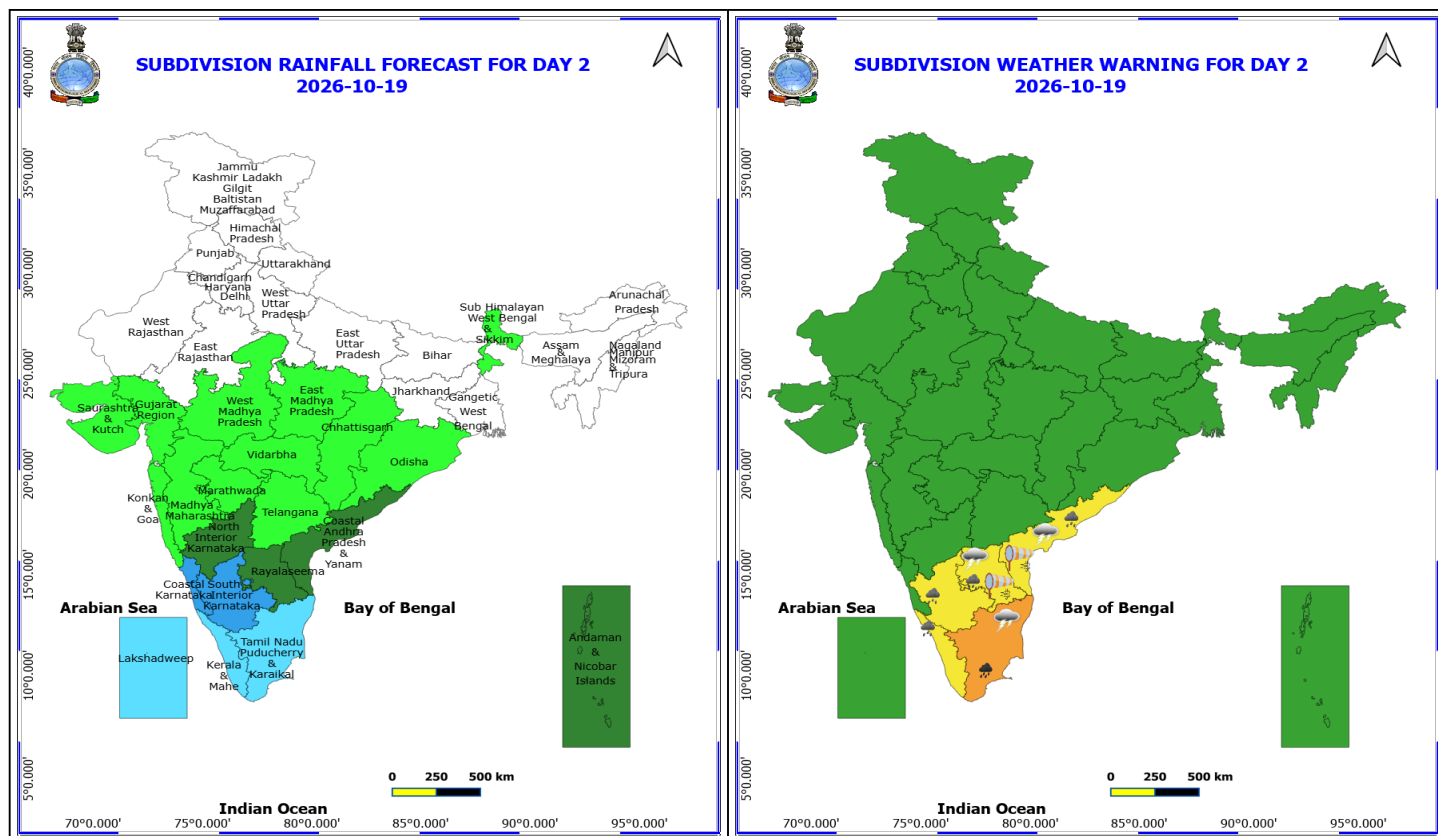
**No Fishermen Warning**

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## 19 October (Day 2)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka, Kerala & Mahe, Lakshadweep, Telangana and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Chhattisgarh, Coastal Karnataka, East Madhya Pradesh, Konkan & Goa and Maharashtra.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh.

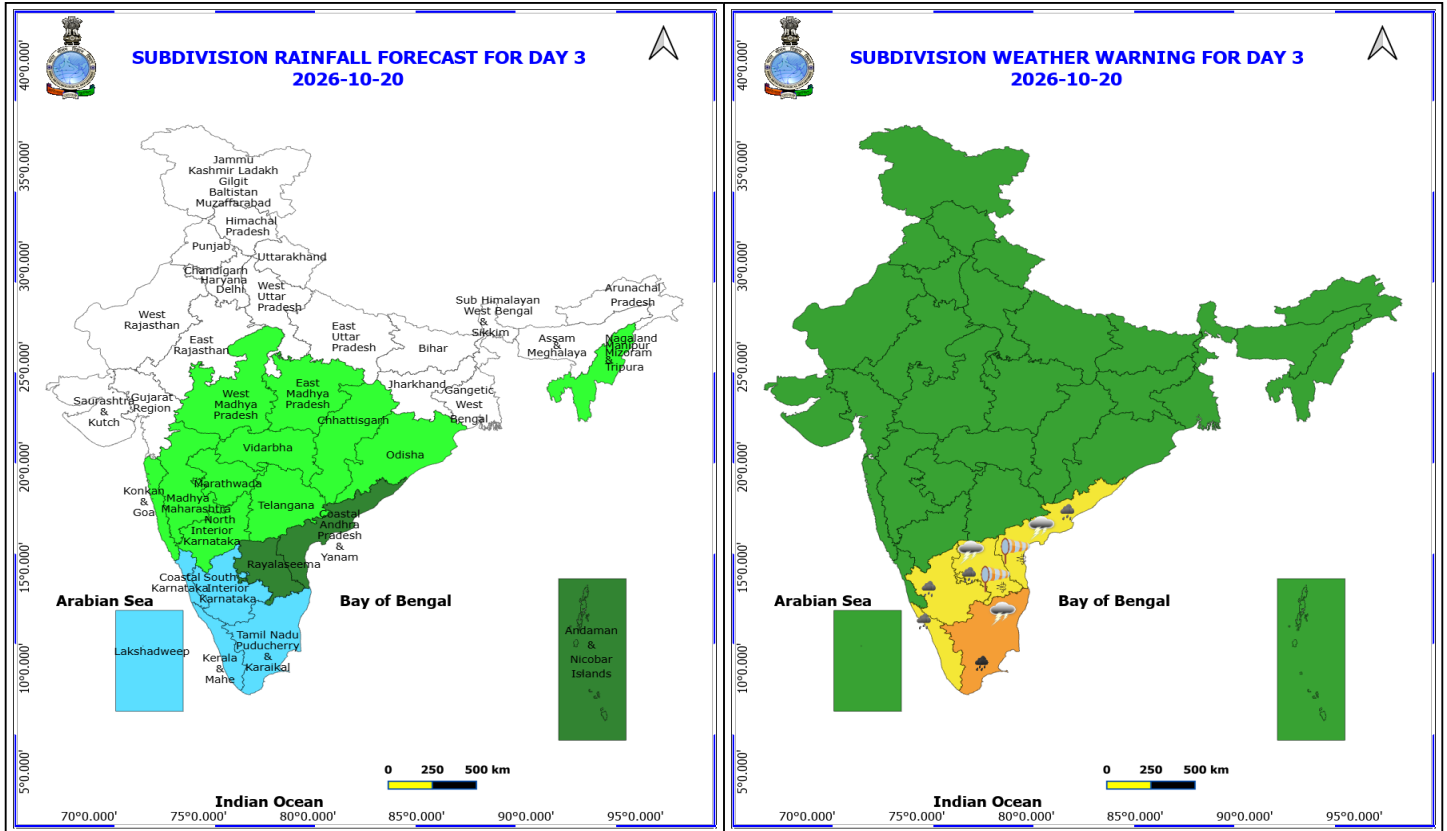
**Squally weather with wind speed 35-45 kmph gusting to 55 kmph** is likely to prevail southwest Arabian sea adjoining northwest Equatorial Indian Ocean.

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## 20 October (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Interior Karnataka, Kerala & Mahe, Lakshadweep, Telangana and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Chhattisgarh, Coastal Karnataka, Madhya Maharashtra and Vidarbha.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh.

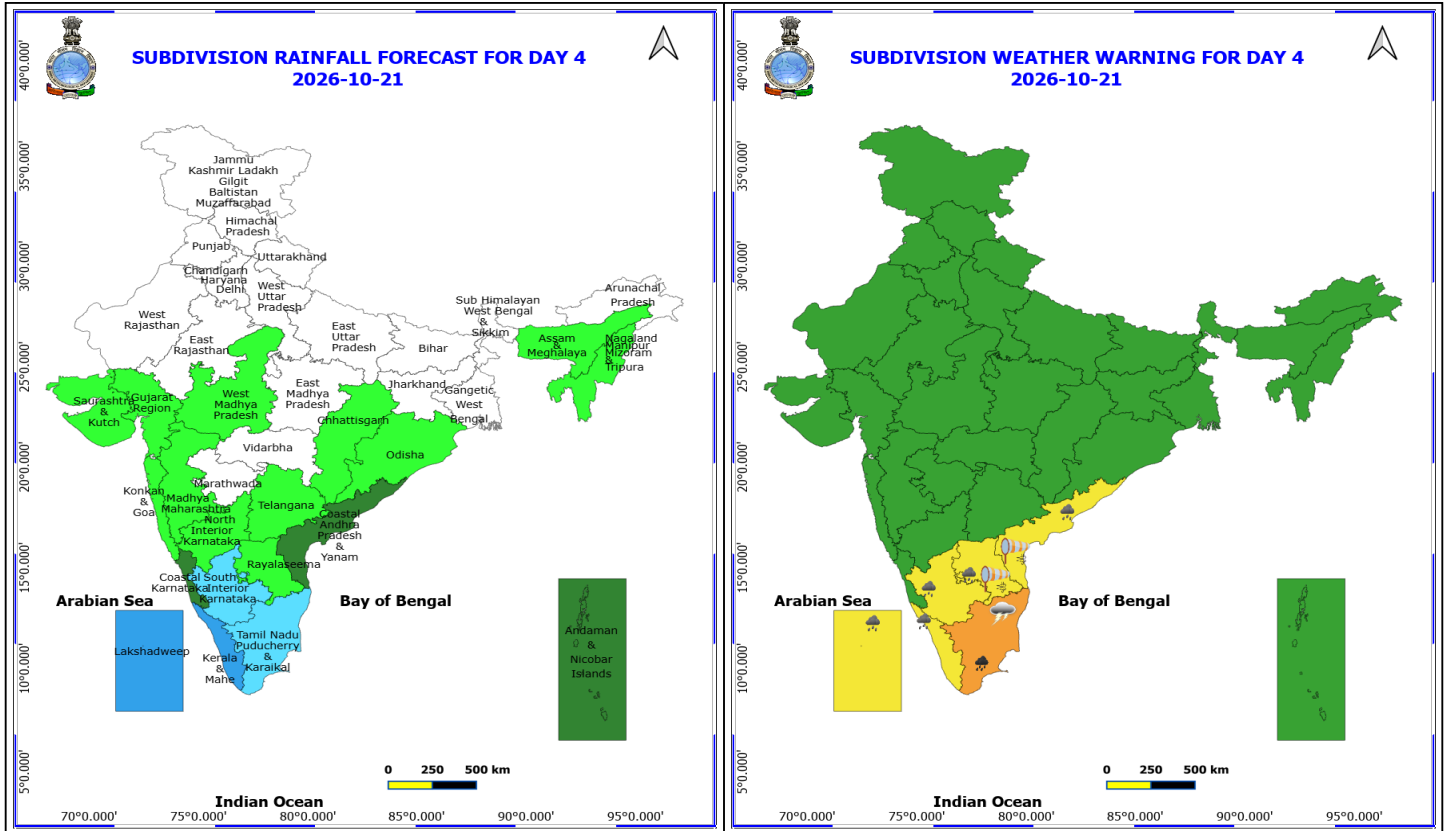
**Squally weather with wind speed 35-45 kmph gusting to 55 kmph** is likely to prevail southwest Arabian sea.

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## 21 October (Day 4)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** likely at isolated places over Andhra Pradesh, Kerala & Mahe, Lakshadweep and South Interior Karnataka.
- ❖ **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 Andhra Pradesh, Telangana and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Kerala & Mahe and Lakshadweep.
- ❖ **Strong Surface Winds** likely at isolated places over Andhra Pradesh.

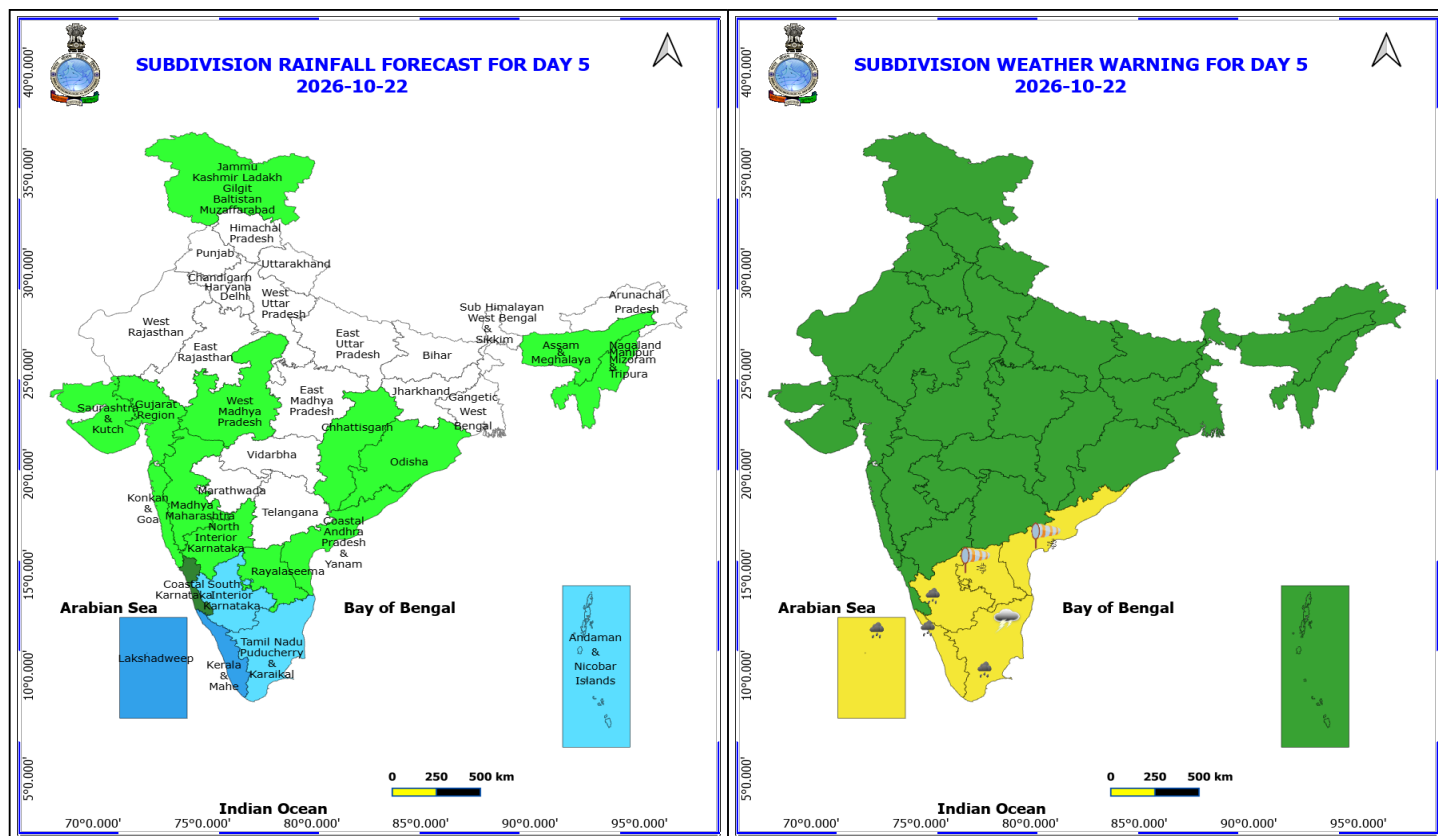
**Squally weather with wind speed 35-45 kmph gusting to 55 kmph** is likely to prevail southwest adjoining westcentral Arabian sea.

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## 22 October (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **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 Andhra Pradesh and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Kerala & Mahe and Lakshadweep.
- ❖ **Strong Surface Winds** likely at isolated places over Andhra Pradesh.

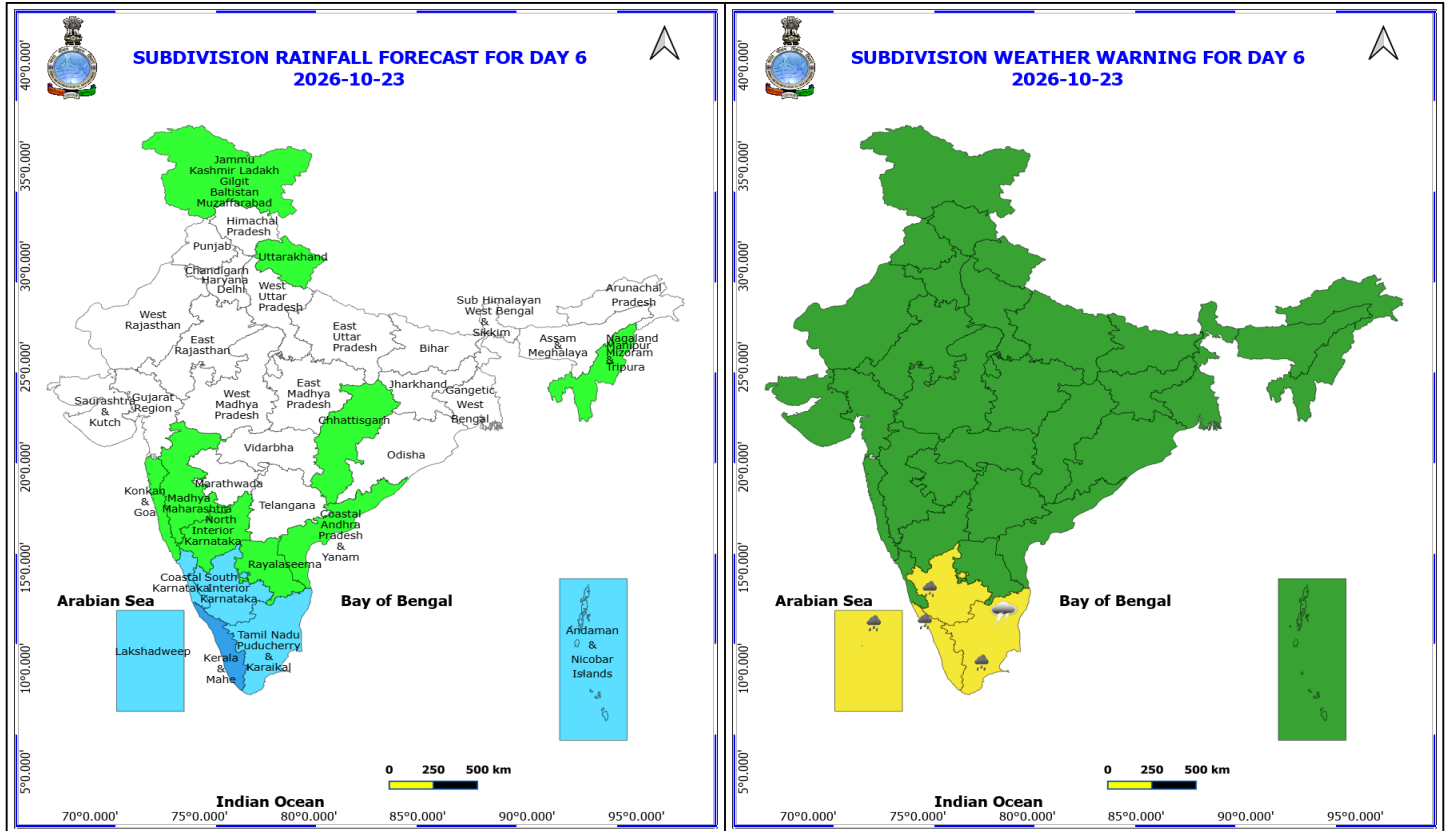
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## 23 October (Day 6)

- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Tamil Nadu Puducherry & Karaikal.

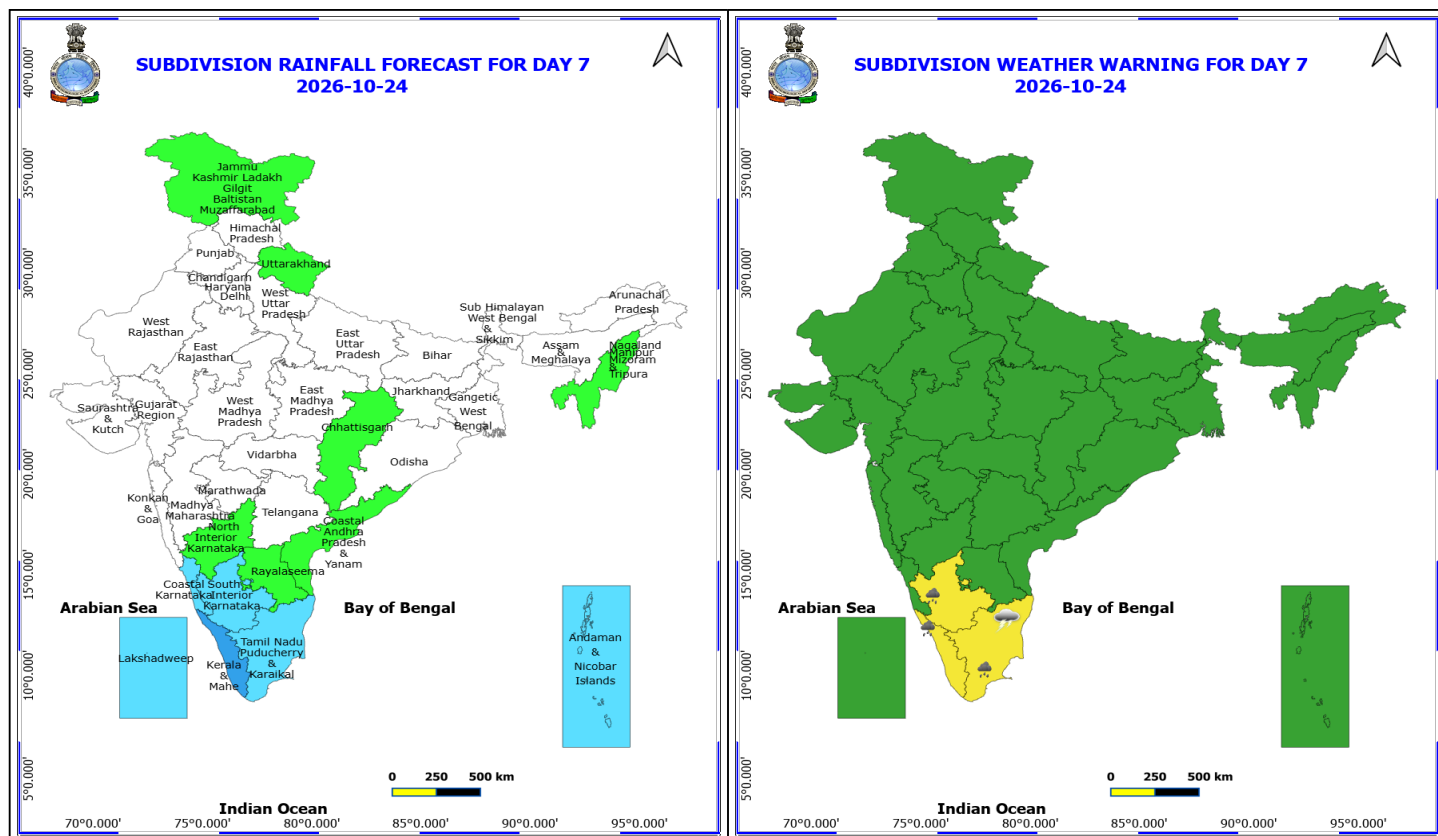
**No Fishermen Warning**

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## 24 October (Day 7)

- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Tamil Nadu Puducherry & Karaikal.

**No Fishermen Warning**

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## Table-1

### 7 Days Rainfall Forecast

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

| 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 2026-10-18

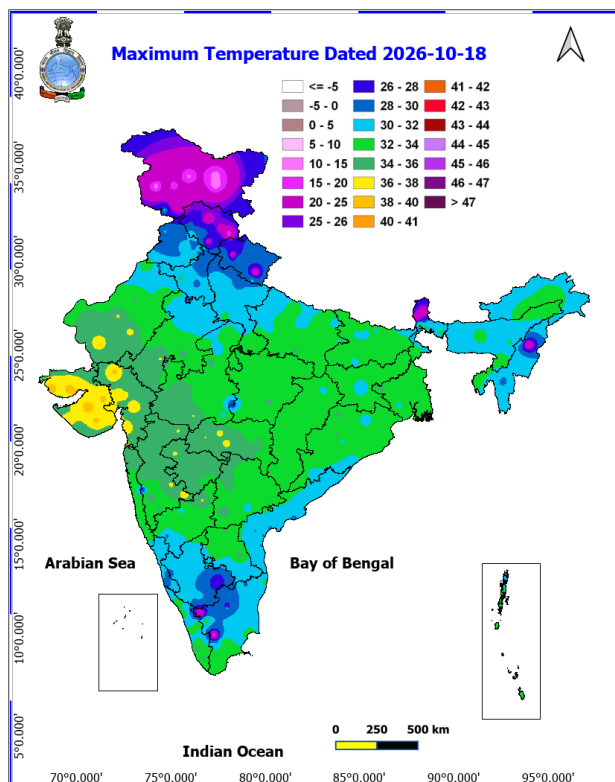


Fig. 2: Departure of Maximum Temp. Dated 2026-10-18

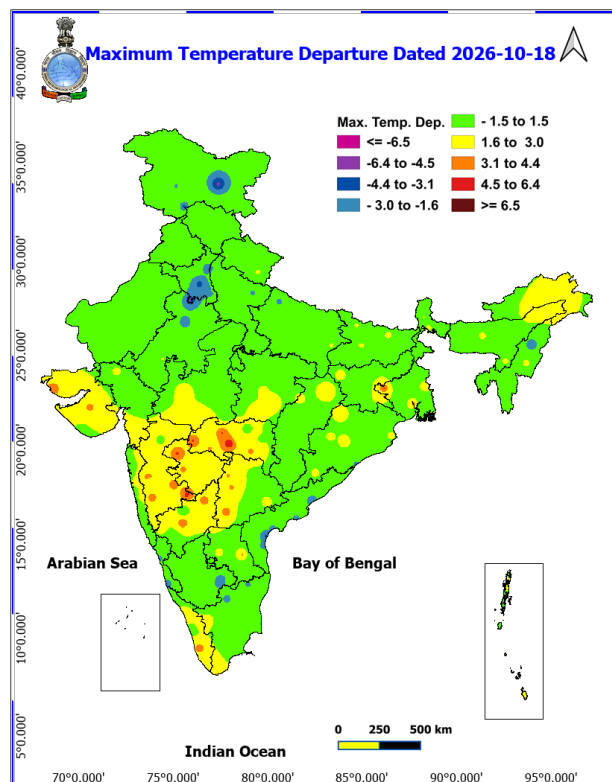


Fig. 3: Minimum Temperatures Dated 2026-10-18

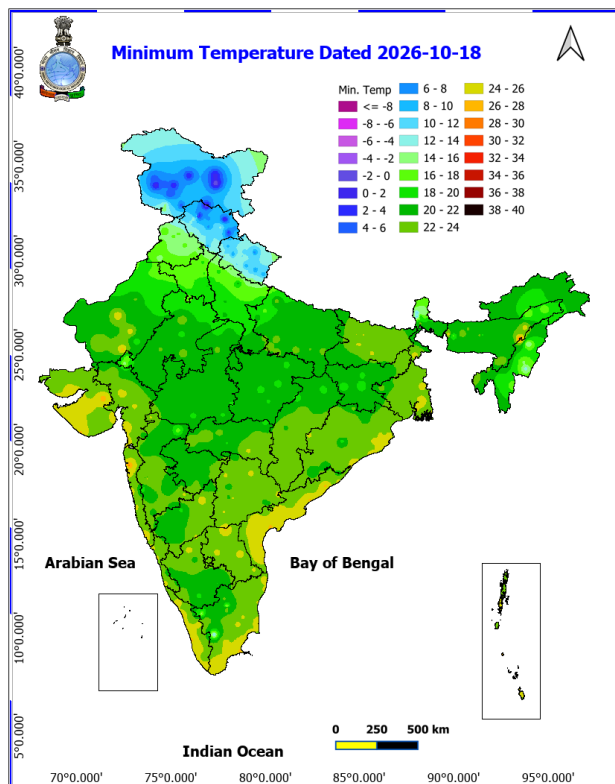
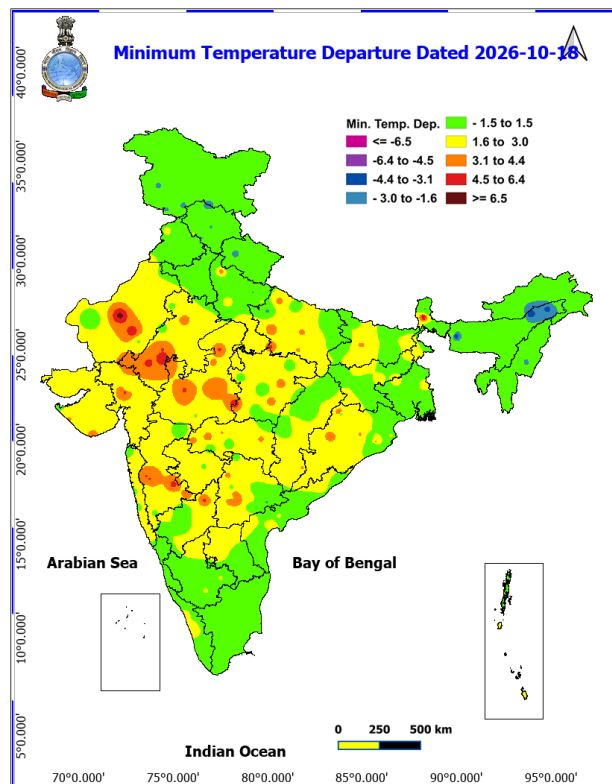
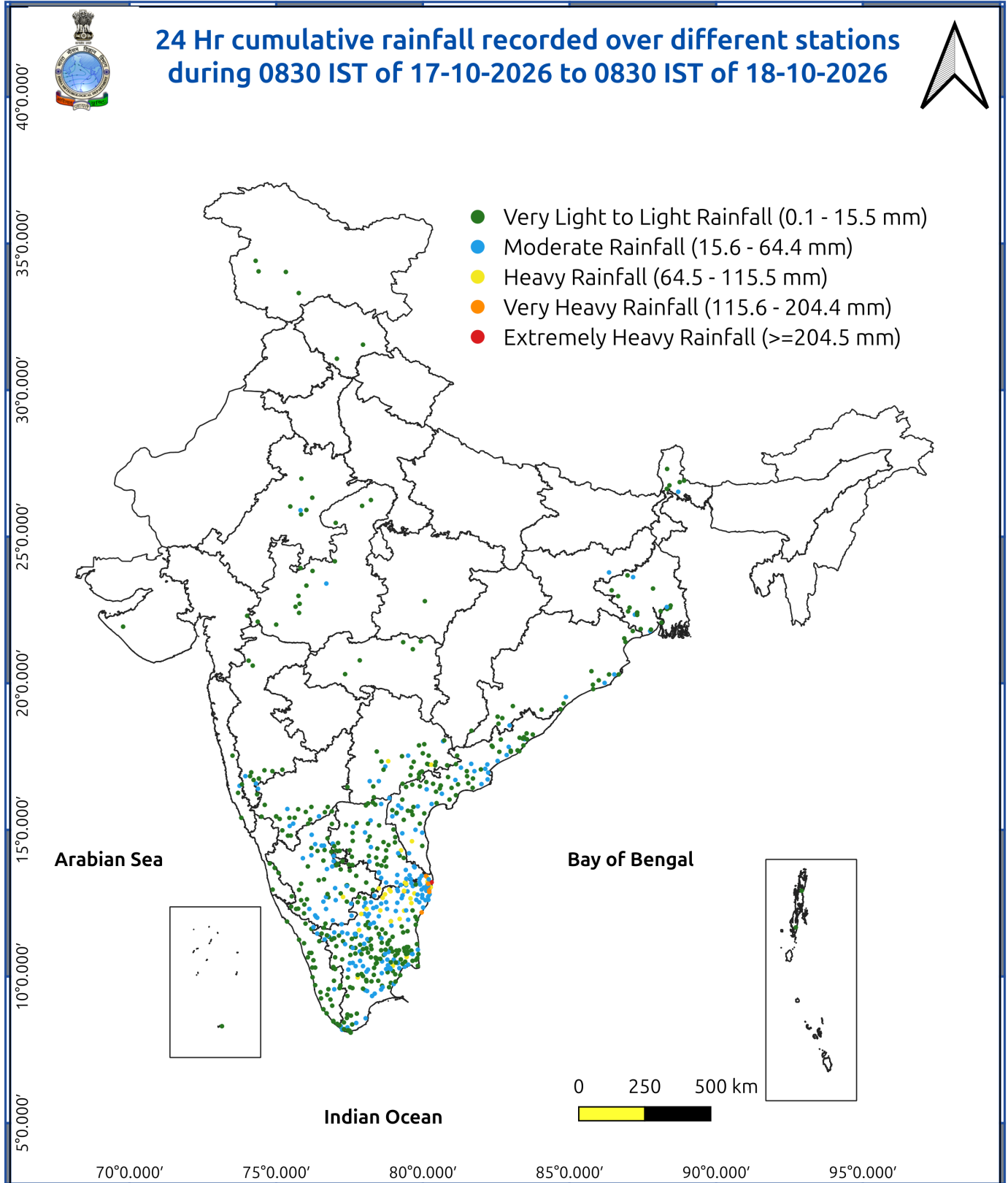


Fig. 4: Departure of Minimum Temp. Dated 2026-10-18





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## Impact and Actions

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

- **Isolated very heavy rainfall** also likely over Tamil Nadu, Puducherry & Karaikal during 18th-21st October; Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka on 18th October.
- **Isolated heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 22nd-24th October; Kerala & Mahe during 18th-24th October; Lakshadweep during 21st-23rd October; Coastal Karnataka on 18th October; South Interior Karnataka during 19th-24th October; Coastal Andhra Pradesh & Yanam and Rayalaseema during 19th-21st 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**, drain excess water from paddy, banana, cotton, turmeric, sugarcane and tapioca fields to prevent waterlogging. Harvest mature paddy and groundnut during dry intervals and store the produce safely. Postpone fertilizer application, pesticide spraying and intercultural operations during rainfall.
- In **Keralam**, ensure proper drainage in paddy, coconut, vegetables, ginger, banana field. Provide mechanical support to banana and papaya plants and stake young plants to avoid lodging. Monitor paddy for blast and sheath rot under wet conditions. Postpone fertilizer application and plant-protection operations during rainfall.
- In **Coastal Karnataka**, clear drainage channels in fields, particularly in areas expecting very heavy rainfall. Ensure adequate drainage in ginger and other standing crops, provide support to vulnerable horticultural plants and protect harvested produce in covered, dry storage.
- In **South Interior Karnataka**, drain excess water from lowlying fields to prevent waterlogging and crop damage. Provide staking or propping to crops vulnerable to lodging, particularly horticultural crops, and protect harvested produce from rain. Harvest mature crops during suitable dry intervals and postpone fertilizer application, plant-protection measures and other field operations during rainfall.
- In **Coastal Andhra Pradesh**, provide adequate drainage in standing crops, particularly rice, maize, finger millet, groundnut and vegetables. Provide mechanical support to horticultural crops and stake vegetables

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against strong winds. Harvest mature groundnut and maize during suitable dry intervals and store the produce safely. Postpone fertilizer application, pesticide spraying and intercultural operations during heavy rainfall.

- In **Rayalaseema**, ensure adequate drainage in crop fields and provide mechanical support to horticultural crops and staking to vegetables to minimise lodging due to strong winds. Monitor groundnut for Helicoverpa incidence and install bird perches for natural pest control. Suspend fertilizer application, pesticide spraying and other field operations during heavy rain and thunderstorms.

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

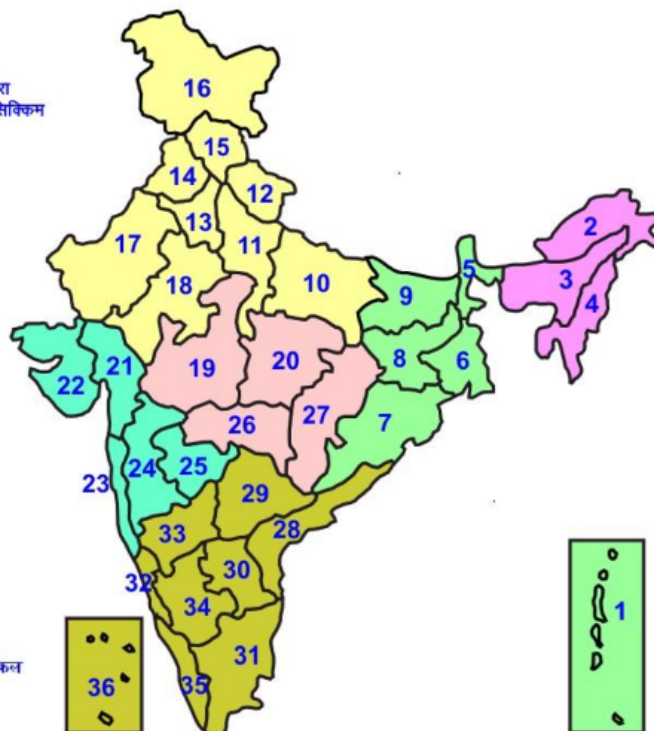
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables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

#### **Advisories for likely impact of Heavy Rainfall for 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

- 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

 Thunderstorm & Lightning

 Strong surface winds

 Cold Wave

 Hot & Humid

 Very Heavy Rain

 Hailstorm

 Heat Wave

 Cold Day

 Extremely Heavy Rain

 Dust Storm

 Hot Day

 Ground Frost

 Heavy Snow

 Dust Raising Winds

 Warm Night

 Fog

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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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