

2025-10-20

Time of Issue: 13:44:00 hours IST  
(Mid-Day)

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

**Weather warning:**

**South Peninsular India:**

Light to moderate rainfall/thunderstorm at many/some places with isolated heavy rainfall over Tamilnadu during 20th-24th; Lakshadweep and Coastal Karnataka during 20th -24th; North Interior Karnataka on 20th & during 23rd -24th ; South Interior Karnataka on 21st & 22nd; Kerala & Mahe on 21st; Coastal Andhra Pradesh & Yanam on 20th-26th; Rayalaseema on 20th-25th; Telangana during 23rd -25th with very heavy rainfall over Tamil Nadu during 20th - 23rd; Kerala & Mahe during 22nd - 24th; Coastal Karnataka on 23rd & 24th; South Interior Karnataka on 20th & during 23rd -25th; Coastal Andhra Pradesh & Yanam and Rayalaseema during 22nd - 25th October. Strong surface winds (speed reaching 30-40 kmph) likely over South Interior Karnataka on 24th & 25th October. Thunderstorm with lightning likely over the region during next 5 days.

**East & Central India:**

Light to moderate rain/thunderstorm at many places with isolated heavy rainfall over Andaman & Nicobar Islands during 20th-21st & 24th -26th October. Thunderstorm with lightning and gusty winds (speed reaching 30-50 kmph) likely over Odisha and Andaman & Nicobar Islands during 20th-24th with lightning over Madhya Pradesh and Vidarbha during 21st -23rd and Chhattisgarh during 20th -24th October.

**West India:**

Thunderstorm with lightning likely over Konkan & Goa, Marathawada and Madhya Maharashtra during next 2 days.

**North India:**

Thunderstorm with lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and Himachal Pradesh on 21st October.

#### Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Coastal Karnataka, South Interior Karnataka and Kerala & Mahe; **at many places** over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Lakshadweep; **at a few places** over Odisha, Telangana and Rayalaseema; **at isolated places** over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, West Madhya Pradesh, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Chhattisgarh and North Interior Karnataka; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Kerala & Mahe**: Kodungallur (dist Thrissur) 13; Munakkal AWS (dist Thrissur) 9; Palakkad (dist Palakkad), Mannarkkad (dist Palakkad), Kanjirapuzha ARG (dist Palakkad), Peringome AWS (dist Cannur), Pothundy Dam AWS (dist Palakkad), Malampuzha Dam AWS (dist Palakkad) 8 Each; Irinjalakuda (dist Thrissur), Alathur (dist Palakkad), Lower Sholayar AWS (dist Thrissur) 7 Each; **Tamil Nadu, Puducherry & Karaikal**: Coonoor (dist Nilgiris), Coonoor PTO (dist Nilgiris) 10 Each; Burliar (dist Nilgiris), Kodivery (dist Erode) 9 Each; Tuticorin Rly ARG (dist Toothukudi), Theerthandathanam (dist Ramanathapuram), Kavundapadi (dist Erode), Kil Kotagiri Estate (dist Nilgiris), Servalar Dam (dist Tirunelveli) 8 Each; Sathyamangalam (dist Erode), Rajapalayam (dist Virudhunagar), Adar Estate (dist Nilgiris), Sothuparai (dist Theni), Pillur Dam Mettupalayam (dist Coimbatore) 7 Each; **South Interior Karnataka**: Arkalgud (dist Hassan) 8; Anavatti (dist Shivamogga), Kunigal (dist Tumakuru) 7 Each; **Odisha**: Swam-patna (dist Keonjhar) 8; **Coastal Karnataka**: Shakti Nagar (dist Dakshina Kannada) 7.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rain** at isolated places over Kerala & Mahe. **Heavy rain** at isolated places over Odisha, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka and South Interior Karnataka.

❖ **Minimum Temperature Departures (as on 20-10-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Bihar and West Uttar Pradesh. **appreciably above normal(3.1°C to 5.0°C)** at few places over Uttarakhand; at isolated places over West Rajasthan and Madhya Maharashtra. **above normal(1.6°C to 3.0°C)** at many places over Nagaland, Manipur, Mizoram & Tripura and Chhattisgarh; at few places over East Uttar Pradesh, Haryana-Chandigarh-Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat Region, Vidarbha, Telangana and South Interior Karnataka; at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Jharkhand, Punjab, Himachal Pradesh, Saurashtra & Kutch, Marathwada, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over East Rajasthan and West Madhya Pradesh; at most places over Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, North Interior Karnataka and Lakshadweep; at few places over East Madhya Pradesh. **The lowest minimum temperature** of 12.0°C is reported at UNA (HIMACHAL PRADESH) over the Plains of India.

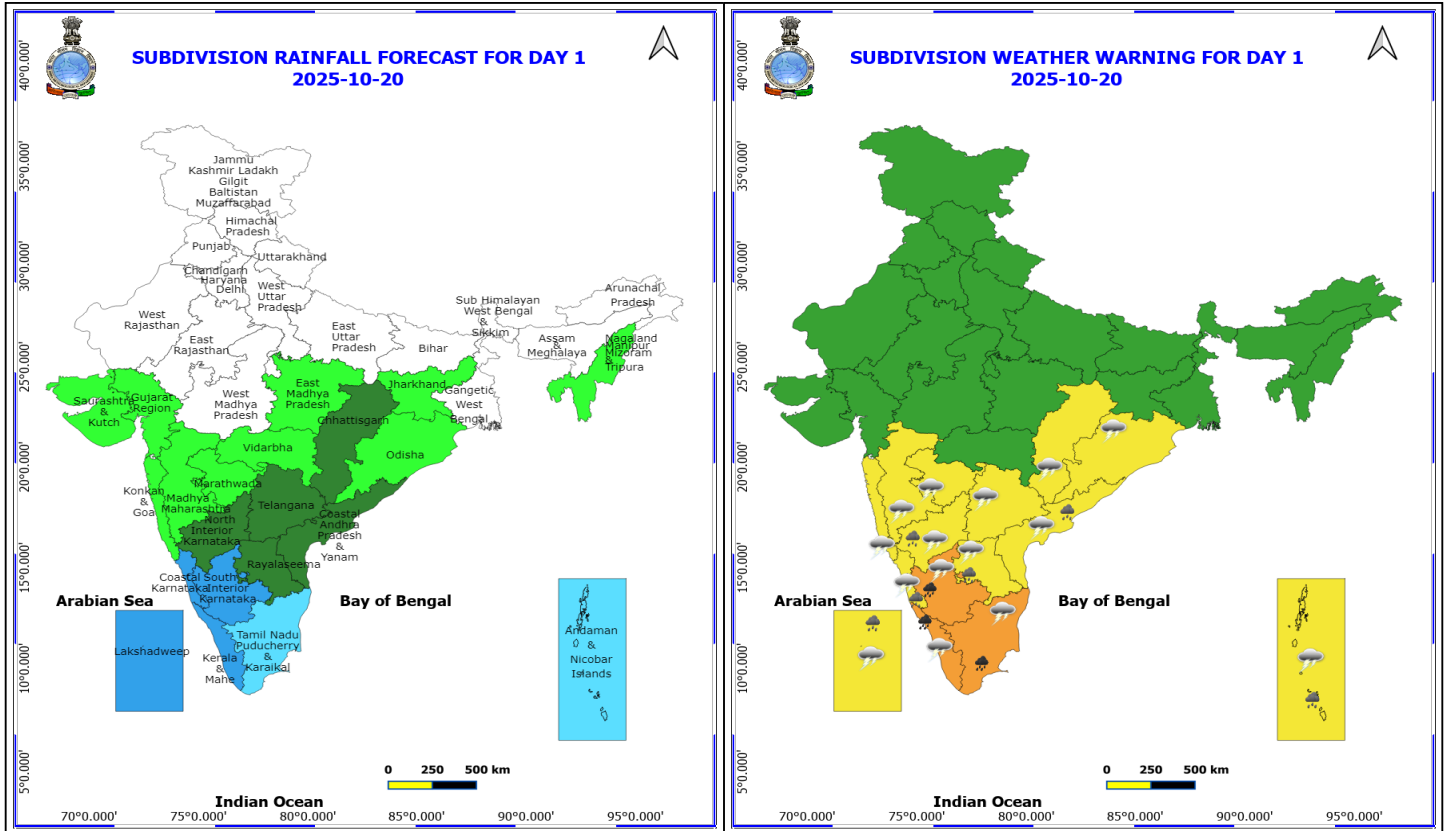
❖ **Maximum Temperature Departures (as on 19-10-2025): appreciably above normal(3.1°C to 5.0°C)** at few places over Arunachal Pradesh, Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Uttarakhand, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Chhattisgarh; at isolated places over Gangetic West Bengal, Haryana-Chandigarh-Delhi, Punjab and Himachal Pradesh. **above normal(1.6°C to 3.0°C)** at most places over Nagaland, Manipur, Mizoram & Tripura; at few places over Konkan & Goa; at isolated places over Jharkhand, Bihar, East Uttar Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over East Rajasthan, East Madhya Pradesh, Gujarat Region, Rayalaseema, South Interior Karnataka and Lakshadweep; at most places over Andaman & Nicobar Islands, West Uttar Pradesh, West Rajasthan, Marathwada, Vidarbha, Telangana, Coastal Karnataka and North Interior Karnataka; at few places over West Madhya Pradesh; at isolated places over Odisha and Coastal Andhra Pradesh & Yanam. **The highest maximum temperature** of 37.5°C is reported at BARMER (RAJASTHAN).

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

- The **Well marked Low Pressure area** over southeast Arabian Sea & adjoining Lakshadweep area moved nearly westwards and lay over southeast Arabian Sea at 0830 hrs IST of today, 20th October 2025. It is likely to move nearly westwards and intensify into a depression during next 24 hours.
- The **upper air cyclonic circulation** over south Andaman Sea & adjoining southeast Bay of Bengal persisted and extended upto 5.8 km above mean sea level. Under its influence, a low pressure area is likely to form over southeast Bay of Bengal during next 24 hours. It is likely to move west-northwestwards and intensify further into a depression over central parts of south Bay of Bengal and adjoining westcentral Bay of Bengal during subsequent 48 hours.
- The **upper air cyclonic circulation** over south Kerala & adjoining Comorin area now lies over southeast Arabian Sea off Kerala coast and extends upto 1.5 km above mean sea level.
- The **trough** now runs from the cyclonic circulation associated with well marked Low-Pressure area over southeast Arabian Sea to south Andaman sea across cyclonic circulation over southeast Arabian Sea off Kerala coast at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over northwest Madhya Pradesh & neighbourhood now lies over northwest Rajasthan & neighbourhood between 1.5 & 3.1 km above mean sea level.
- A trough runs from **upper air cyclonic circulation** over northwest Rajasthan & neighbourhood to central parts of Madhya Pradesh across East Rajasthan at 1.5 km above mean sea level.
- A **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 65°E to the north of Lat. 28°N.

#### Weather Outlook for subsequent 3 days

- Fairly widespread to widespread rainfall activity likely over the south peninsular India.
- isolated to scattered rainfall activity likely over Eastern coast, Northeast India and Western Himalayan Region.



## 20 October (Day 1)

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

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.

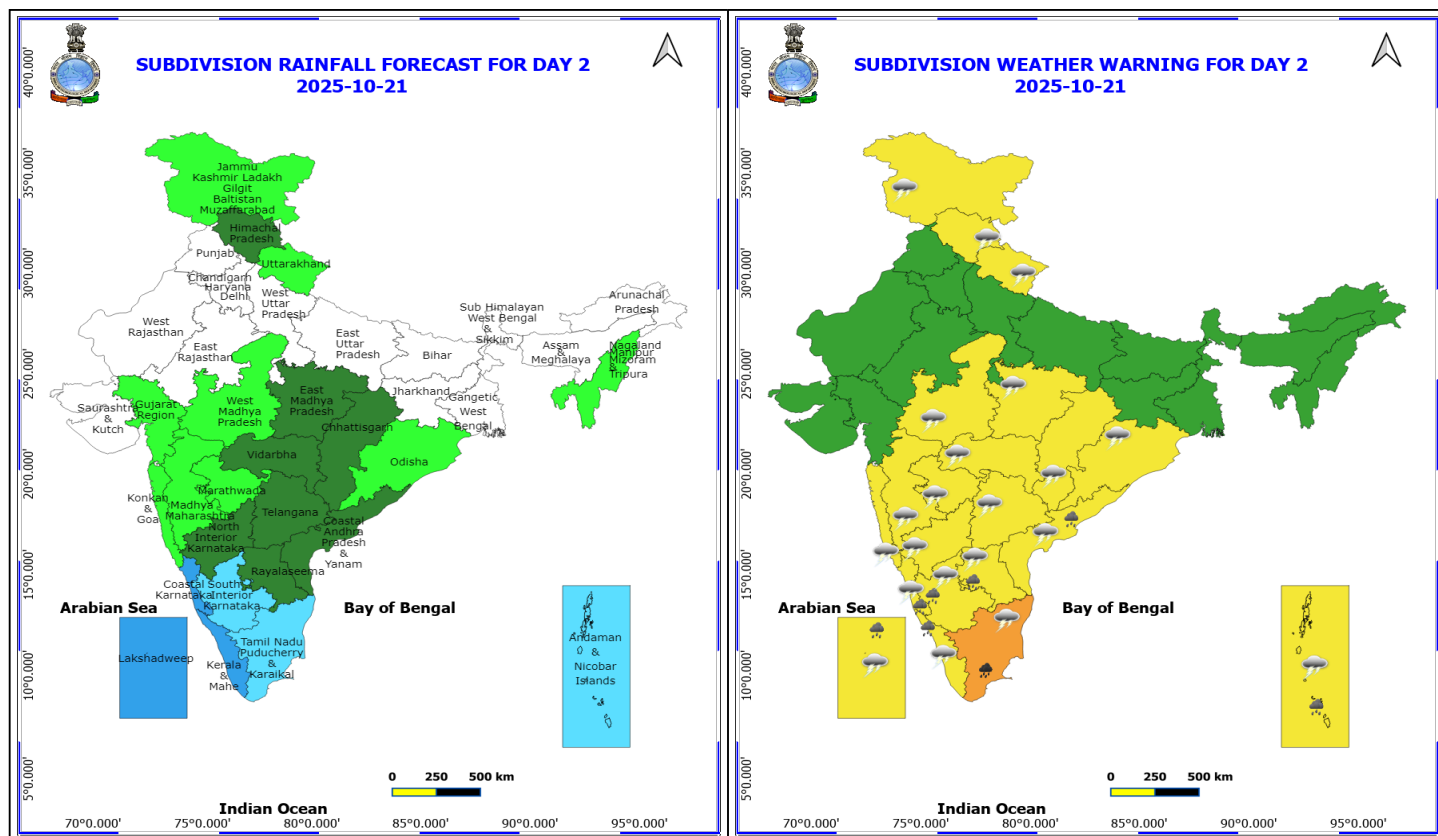
Squally weather with wind speed reaching 40-50 gusting to 60 kmph over Southeast and adjoining Southwest & Eastcentral Arabian Sea

**\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"**

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## 21 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 Andaman & Nicobar Islands, Andhra Pradesh, Coastal Karnataka, Kerala & Mahe, Lakshadweep and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Chhattisgarh, Coastal Karnataka, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Madhya Pradesh, Maharashtra, Tamil Nadu Puducherry & Karaikal and Uttarakhand.

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.

Squally weather with wind speed reaching 40-50 gusting to 60 kmph over central parts of south & adjoining central Arabian sea.

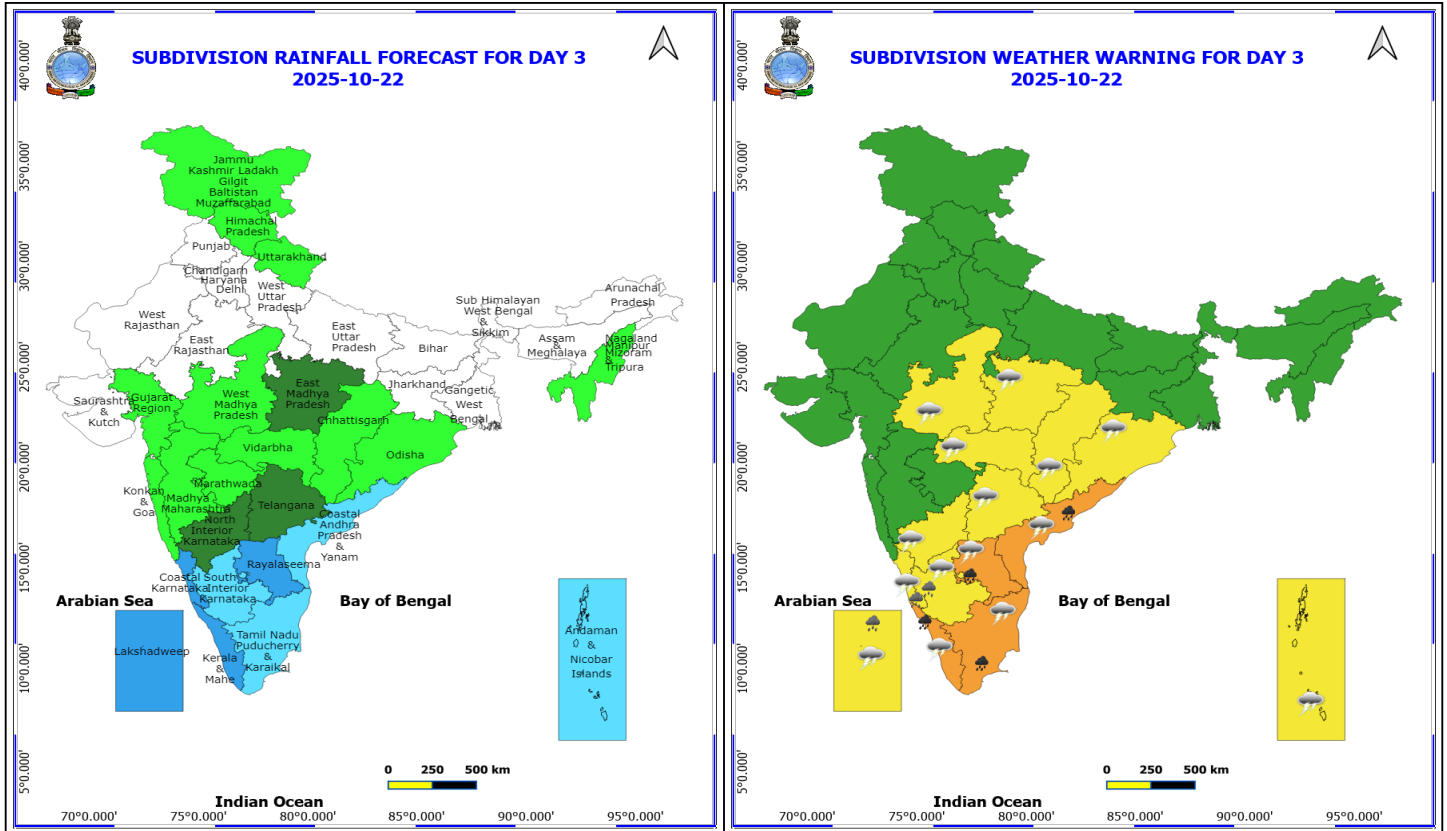
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## 22 October (Day 3)

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

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.

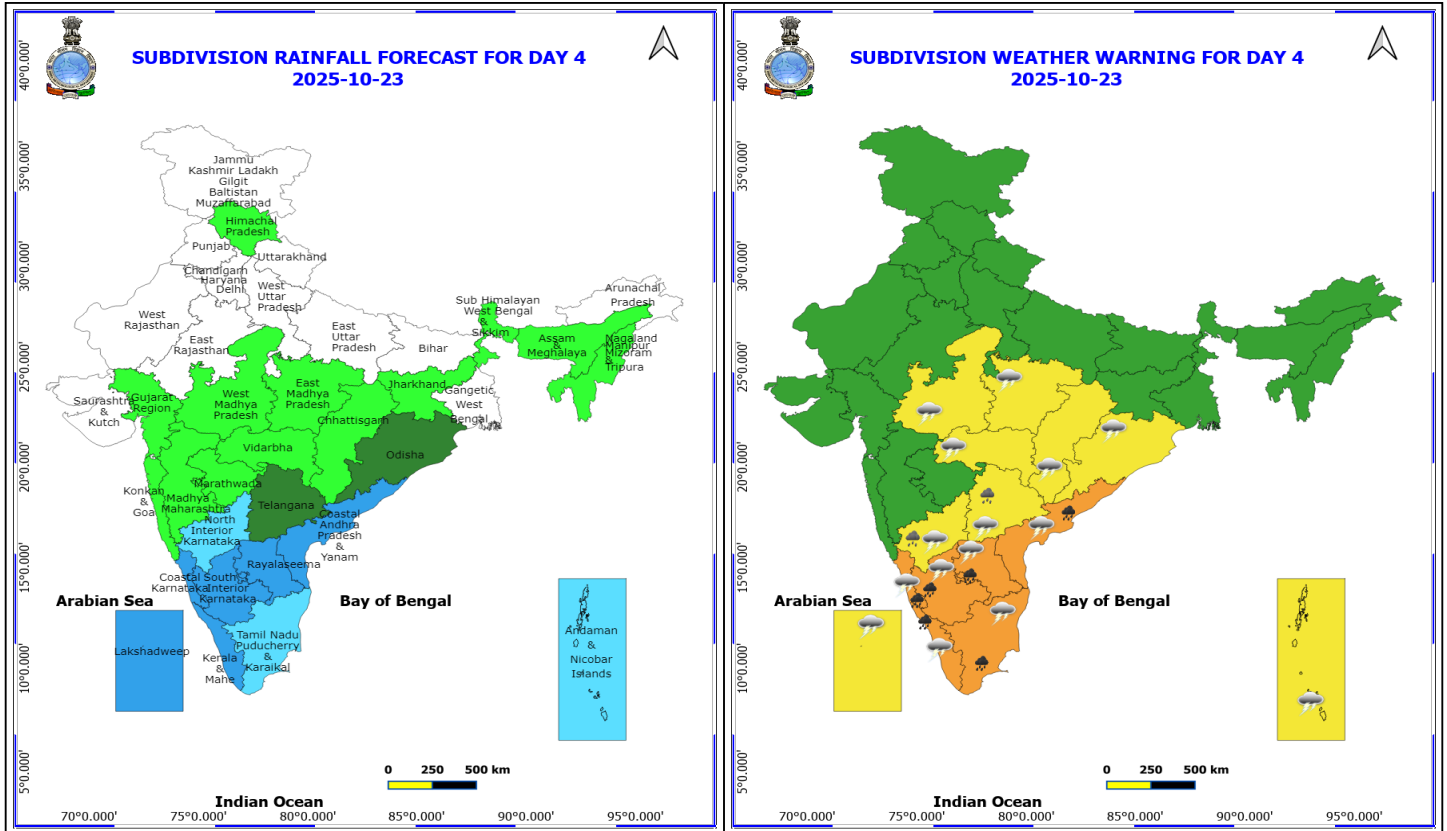
Squally weather with wind speed reaching 40-50 gusting to 60 kmph over central parts of south & adjoining central over southwest & adjoining westcentral Arabian Sea on 22<sup>nd</sup> & 23<sup>rd</sup> October.

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## 23 October (Day 4)

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

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.

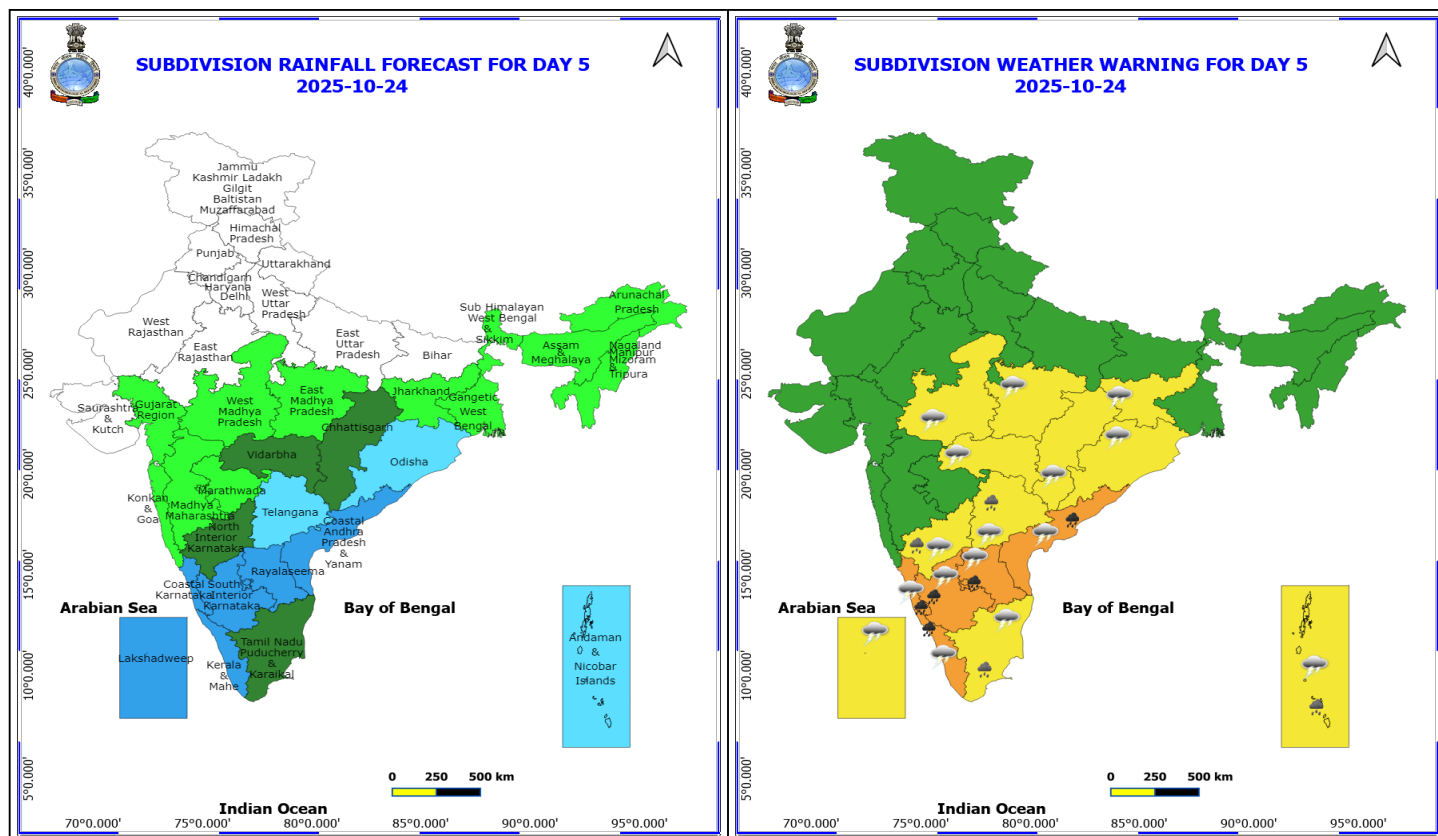
Squally weather with wind speed reaching 40-50 gusting to 60 kmph over central parts of south & adjoining central over southwest & adjoining westcentral Arabian Sea.

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## 24 October (Day 5)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andhra Pradesh, Coastal Karnataka, Kerala & Mahe and South Interior Karnataka.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, North Interior Karnataka, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Interior Karnataka, Kerala & Mahe, Lakshadweep, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Coastal Karnataka, Jharkhand, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal and Vidarbha.

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is likely to prevail over Southeast and adjoining Southwest & Eastcentral Arabian Sea, Lakshadweep & Comorin Area and along & off Karnataka, Kerala and adjoining South Tamil Nadu coasts.

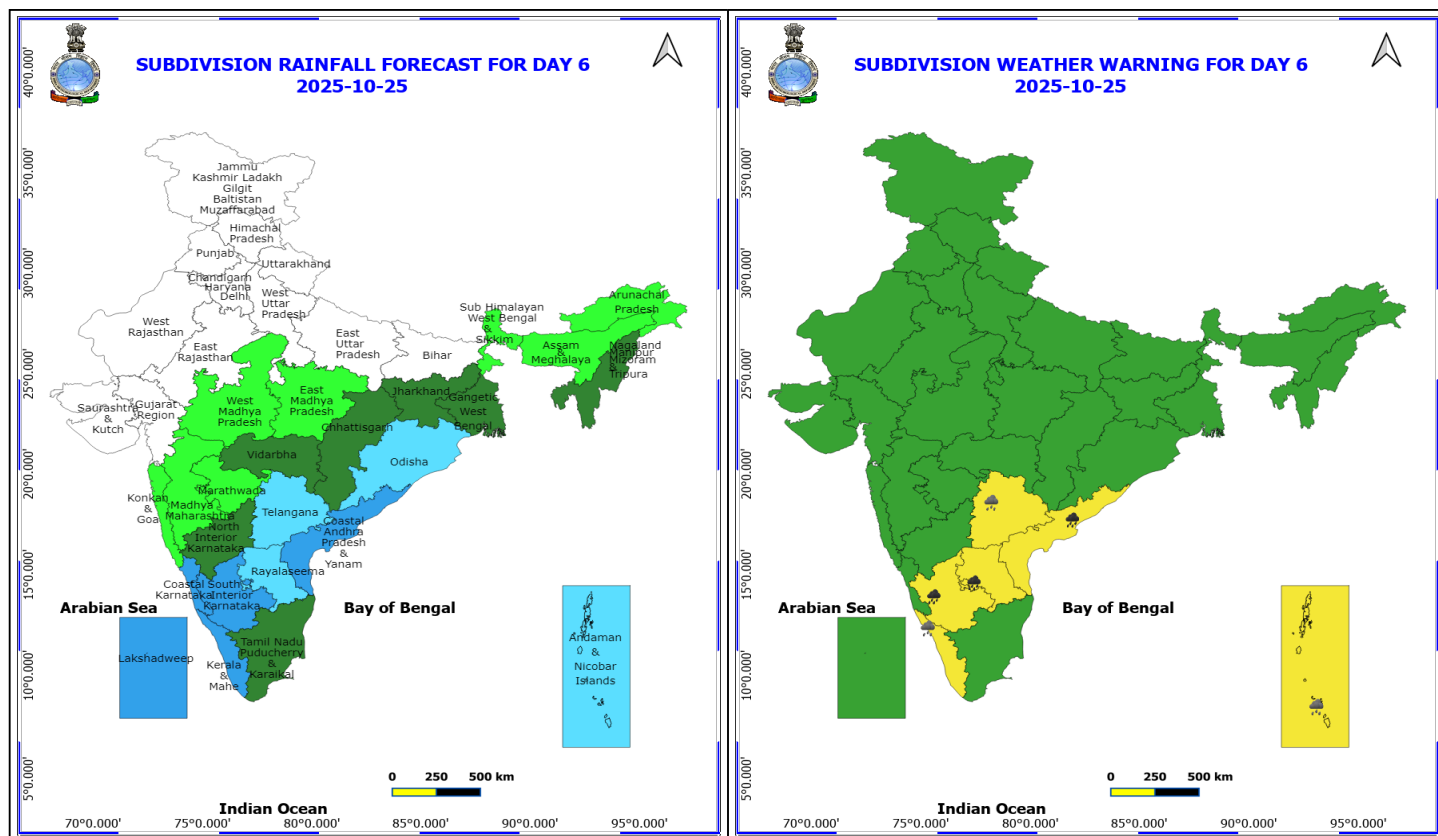
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## 25 October (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andhra Pradesh and South Interior Karnataka.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Telangana.

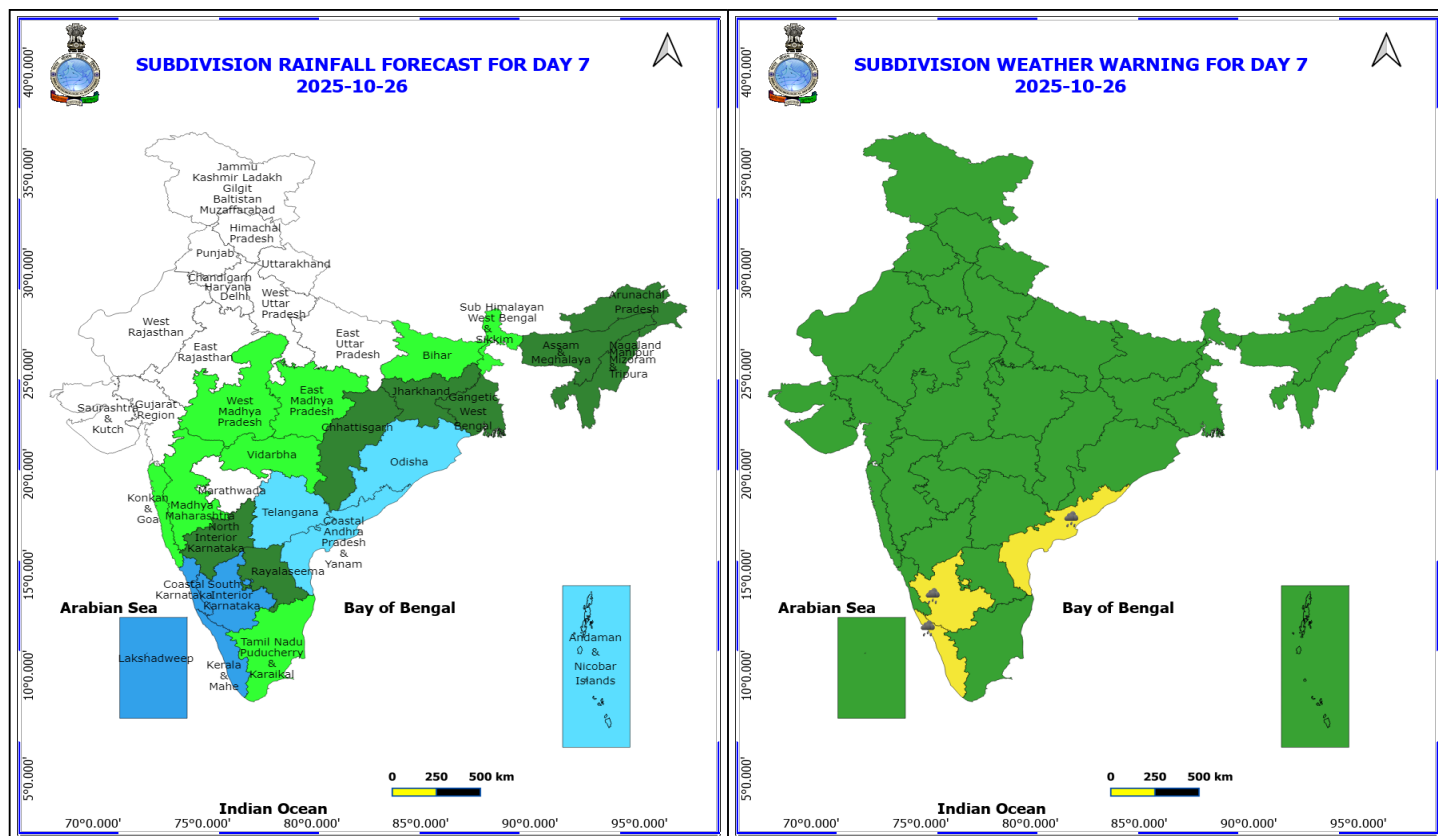
**No Fishermen Warning**

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## 26 October (Day 7)

❖ **Heavy Rainfall** likely at isolated places over Coastal Andhra Pradesh, Kerala & Mahe and South Interior Karnataka.

**No Fishermen Warning**

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### Flash Flood Warnings

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 21-10-2025 :

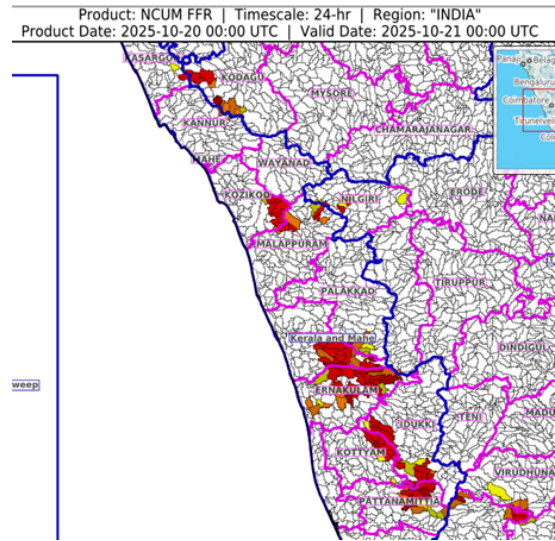
Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

Kerala & Mahe - Ernakulam, Idukki, Kannur, Kasargod, Kottayam, Kozikod, Malappuram, Pattanamittia and Wayanad districts.

Tamil Nadu - Puducherry & Karaikal - Karaikal, Puduchery, Ariyalur, Cuddalore, Dindigul, Erode, Kanchipuram, Nagapattinam, Nilgiri, Perambalur, Pudukkottai, Ramanathapuram, Sivaganga, Thiruvarur, Tiruvannamalai and Vellore districts.

**Coastal Karnataka** - Dakshin Kannada district.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.



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## Table-1

### 7 Days Rainfall Forecast

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

| 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 2025-10-19

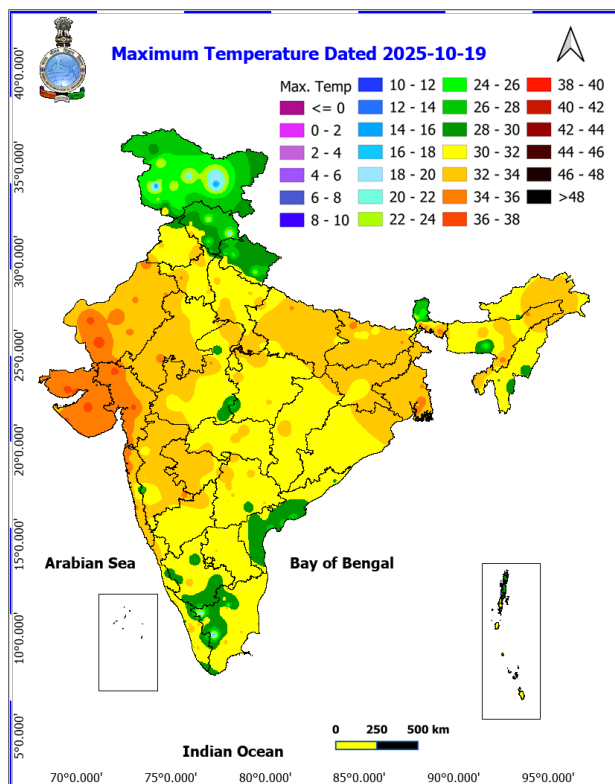


Fig. 2: Departure of Maximum Temp. Dated 2025-10-19

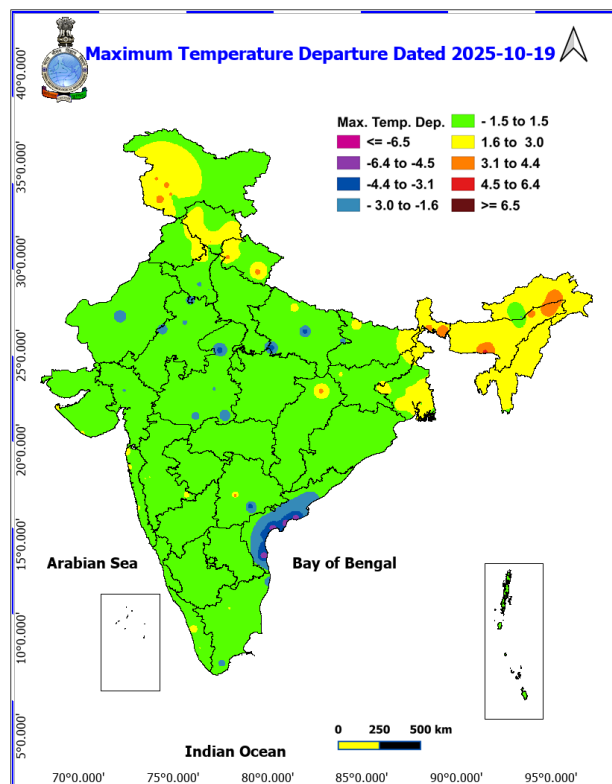


Fig. 3: Minimum Temperatures Dated 2025-10-20

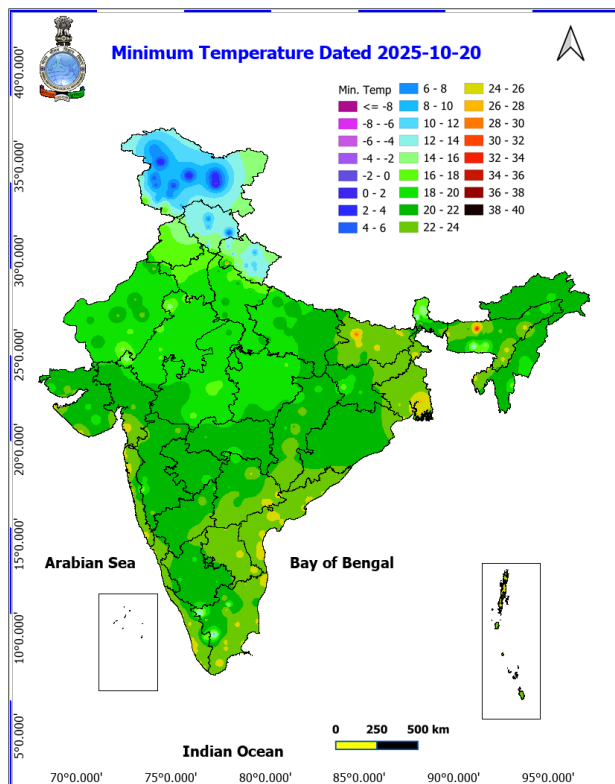
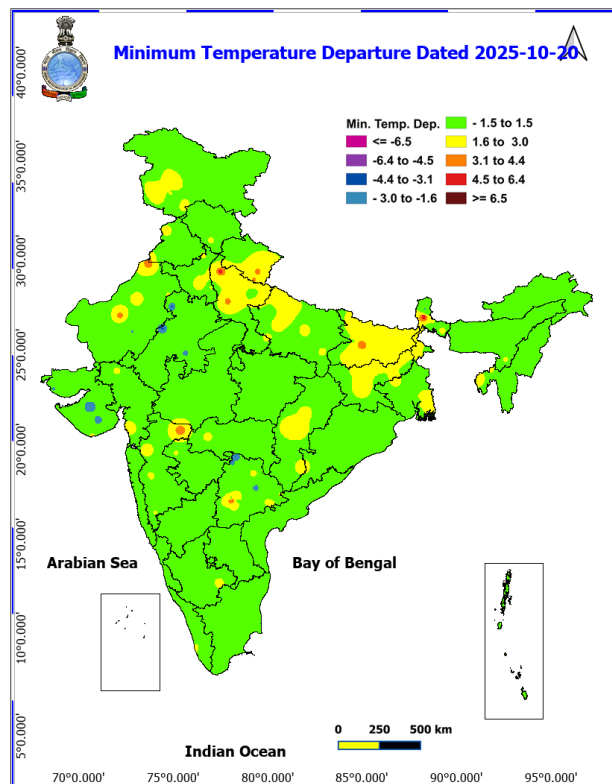
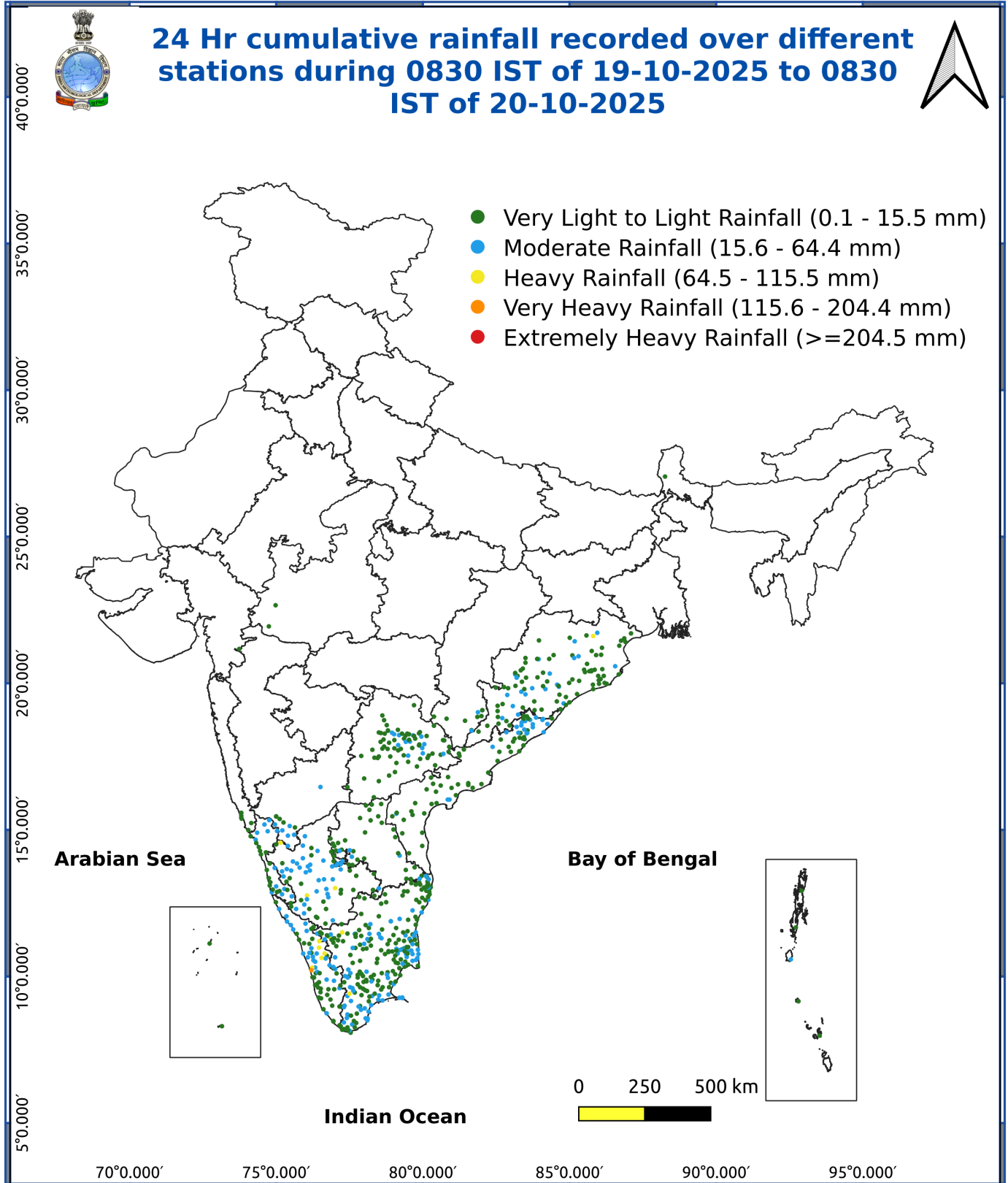


Fig. 4: Departure of Minimum Temp. Dated 2025-10-20







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### Impact & Action Suggested due to

**very heavy rainfall** over Kerala & Mahe on 20<sup>th</sup> and during 23<sup>rd</sup> -25<sup>th</sup>; Tamil Nadu and Rayalaseema during 22<sup>nd</sup> -25<sup>th</sup>; South Interior Karnataka on 24<sup>th</sup> & 25<sup>th</sup>, Coastal Andhra Pradesh & Yanam during 22<sup>nd</sup> -25<sup>th</sup> October.

### 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/landslips/mudslips/landsinks/mudsinks.

Damage to horticulture and standing crops in some areas due to inundation.

It may lead to riverine flooding in some river catchments mainly over Bihar, Jharkhand and West Bengal (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.

### Agromet advisories for various parts of the country

#### Agromet advisories for likely impact of Heavy / Heavy to Very Heavy / Extremely Heavy Rainfall

(Based on the IBF and advisories issued by different AMFUs)

In **Tamil Nadu**, store the harvested produce of rice and groundnut in safer places. Drain out excess water from fields of rice, cotton, black gram, maize, tapioca and vegetables and plantations of coconut, banana and black pepper to avoid water stagnation.

In **Kerala**, keep the harvested produce of rice in safer places. Drain out excess water from fields of rice, vegetables and plantations of banana, coconut, arecanut, cardamom and black pepper.

In **Andhra Pradesh**, harvest matured groundnut crop and matured cobs of maize during fair weather / non-rainy period only and store the produce in safe places. Provide adequate drainage facilities in fields of rice, maize, pigeon pea, black gram, green gram, groundnut, turmeric, ginger, vegetables and plantations of banana, coconut and arecanut.

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In **Coastal Karnataka**, drain out excess water from fields of rice and plantations of coconut, arecanut and black pepper. In **South Interior Karnataka**, keep the harvested produce of groundnut and maize in dry, covered and ventilated areas or cover with tarpaulins in the fields. Harvest matured crops such as rice, pulses, vegetables, cardamom and coffee during dry intervals and store the harvested produce in well-ventilated and moisture-free places. Make necessary arrangements to drain out excess water from fields of rice, maize, finger millet, pulses, groundnut and vegetables and plantations of banana, black pepper, cardamom, coffee, coconut and arecanut to avoid waterlogging.

### **Livestock / 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.

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

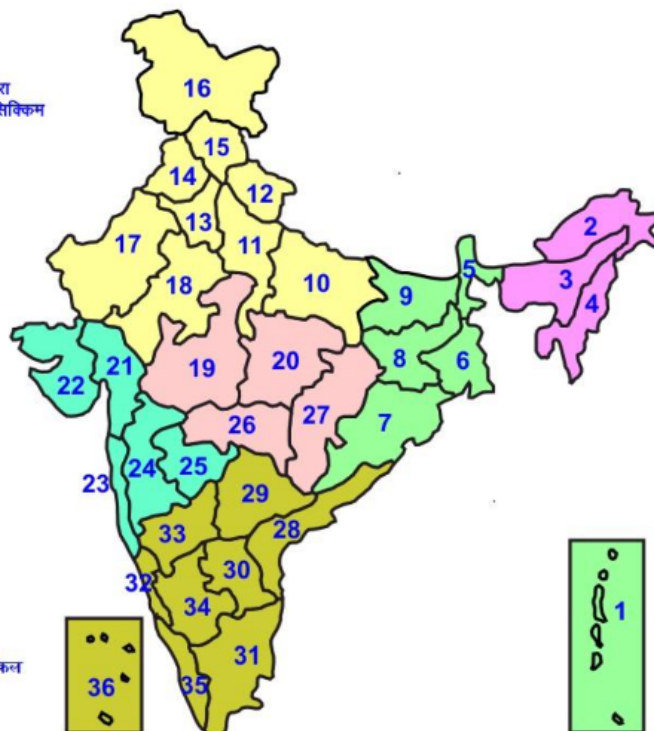
**(Based on the IBF and advisories issued by different AMFUs)**

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.

Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.

## 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. Marathwada
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 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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