

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Advance of Southwest Monsoon 2026:

- The **Southwest Monsoon** has further advanced into entire northwest Bay of Bengal, some more parts of westcentral Bay of Bengal, West Bengal & Bihar, and some parts of Odisha & Jharkhand, today the 12<sup>th</sup> June, 2026.
- The **Northern Limit of Monsoon** passes through 18°N/60°E, 18°N/65°E, 18°N/70°E, Harnai, Solapur, Hyderabad, Bhadradi Kothagudem, Kalingapatnam, Paradeep, Baripada, Purulia, Dhanbad, Muzaffarpur and 28.3°N/83°E.
- **Conditions are favourable** for further advance of southwest monsoon into some more parts of central Arabian Sea, Maharashtra, remaining parts of Karnataka, Telangana, Andhra Pradesh, West Bengal & westcentral Bay of Bengal, some more parts of Odisha, Jharkhand & Bihar, and some parts of Chhattisgarh during next 2-3 days.

#### Weather Forecast and Warnings:

##### Northwest India:

- **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 12th June; Himachal Pradesh and Uttarakhand during 12th-13th June.
- **Fairly Widespread to Widespread** rainfall likely over Haryana Chandigarh & Delhi, Punjab and West Uttar Pradesh on 12th June.
- **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13th-18th June; Himachal Pradesh and Uttarakhand during 14th-18th June.
- **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi, Punjab and West Uttar Pradesh during 13th-18th June; East Uttar Pradesh during 12th-13th June and on 18th June; West Rajasthan during 12th-17th June; East Rajasthan during 12th-18th June.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 13th-14th June; Himachal Pradesh during 13th-16th June; Uttarakhand during 13th-15th June.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Haryana Chandigarh & Delhi and Punjab during 13th-14th June; East Uttar Pradesh and West Uttar Pradesh on 13th June; West Rajasthan during 14th-17th June; East Rajasthan during 14th-18th June.
- **Isolated heavy rainfall likely over Uttarakhand and West Uttar Pradesh on 12th June.**
- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over Haryana Chandigarh & Delhi, Punjab and West Uttar Pradesh on 12th June; East Rajasthan and West Rajasthan during 12th-13th June.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over East Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand on 12th June.
- **Isolated Hailstorm** activity likely over Haryana Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab and Uttarakhand on 12th June.
- **Duststorm** activity likely over West Rajasthan during 12th-13th June; East Rajasthan on 12th June.

##### Central India:

- **Isolated to Scattered** rainfall likely over East Madhya Pradesh, Vidarbha and West Madhya Pradesh during 12th-18th June; Chhattisgarh during 13th-18th June.
- **Fairly Widespread to Widespread** rainfall likely over Chhattisgarh on 12th June.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over East Madhya Pradesh and West Madhya Pradesh during 14th-16th June; Vidarbha during 12th-13th June and on 16th June; Chhattisgarh during 13th-16th June, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Vidarbha during 14th-15th June.

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- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over East Madhya Pradesh and West Madhya Pradesh during 12th-13th June; Chhattisgarh on 12th June.
- Isolated **Hailstorm** activity likely over East Madhya Pradesh and West Madhya Pradesh on 12th June.

#### East India:

- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim during 12th-18th June; Gangetic West Bengal during 12th-15th June; Jharkhand and Odisha during 12th-13th June; Bihar on 13th June.
- **Isolated to Scattered** rainfall likely over Gangetic West Bengal during 16th-18th June; Jharkhand and Odisha during 14th-18th June; Bihar on 12th June and during 14th-18th June.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands during 13th-18th June; Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim during 12th-16th June; Jharkhand during 14th-18th June; Bihar on 14th June; Odisha during 14th-16th June, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Bihar during 15th-17th June.
- **Isolated heavy rainfall** likely over Andaman & Nicobar Islands and Jharkhand on 12th June; Sub-Himalayan West Bengal & Sikkim during 12th-15th June and on 18th June; Bihar during 12th-13th June; Odisha during 12th-14th June **with isolated very heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim during 16th-17th June.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Andaman & Nicobar Islands on 12th June; Jharkhand and Odisha during 12th-13th June; Bihar during 12th-13th June and on 18th June.

#### Northeast India:

- **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 12th-18th June.
- Isolated **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 12th-18th June.
- Isolated **heavy rainfall** likely over Arunachal Pradesh during 12th-16th June; Assam & Meghalaya during 14th-16th June; Nagaland, Manipur, Mizoram & Tripura during 12th-14th June with isolated **very heavy rainfall** also likely over Arunachal Pradesh during 17th-18th June; Assam & Meghalaya during 12th-13th June and during 17th-18th June.
- **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 12th-18th June.
- Isolated **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 12th-18th June.
- **Isolated heavy rainfall likely** over Arunachal Pradesh during 12th-16th June; Assam & Meghalaya during 14th-16th June; Nagaland, Manipur, Mizoram & Tripura during 12th-14th June with **isolated very heavy rainfall** also likely over Arunachal Pradesh during 17th-18th June; Assam & Meghalaya during 12th-13th June and during 17th-18th June.

#### West India:

- **Isolated to Scattered** rainfall likely over Gujarat Region, Konkan & Goa, Madhya Maharashtra and Marathawada during 12th-18th June; Saurashtra & Kutch during 16th-18th June.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Konkan & Goa, Madhya Maharashtra and Marathawada during 12th-13th June.

#### South Peninsular India:

- **Isolated to Scattered** rainfall likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Telangana during 12th-18th June; Lakshadweep during 16th-18th June; North Interior Karnataka during 12th-16th June; South Interior Karnataka on 12th June.
- **Fairly Widespread to Widespread** rainfall likely over Coastal Karnataka and Kerala & Mahe during 12th-18th

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June; Lakshadweep during 12th-15th June; North Interior Karnataka during 17th-18th June; South Interior Karnataka during 13th-18th June

- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 12th-15th June; Kerala & Mahe and Lakshadweep during 12th-13th June; Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana on 12th June, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over North Interior Karnataka during 12th-16th June; South Interior Karnataka during 12th-15th June; Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana during 13th-16th June.
- Isolated **heavy rainfall** likely over Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Lakshadweep, North Interior Karnataka, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Telangana on 12th June; Kerala & Mahe during 13th-14th June with isolated **very heavy rainfall** also likely over Kerala & Mahe on 12th June.

**Main Weather Observations:**

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Coastal Karnataka and Kerala & Mahe; **at many places** over Arunachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh and Lakshadweep; **at a few places** over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Odisha, Bihar, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka; **at isolated places** over Jharkhand, East Uttar Pradesh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Konkan & Goa, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema 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**: Chemberi AWS (dist Cannur) 15; Manjeri (dist Malappuram), Varkala (dist Thiruvananthapuram) 8 Each; Pirappancode AWS (dist Thiruvananthapuram) 7; **Andaman & Nicobar Islands**: Port Blair (dist South Andaman) 11; Maya Bandar (dist North & Middle Andaman) 7; **Tamil Nadu, Puducherry & Karaikal**: Manjolai (dist Tirunelveli) 10; Kodivery (dist Erode), Oothu (dist Tirunelveli) 9 Each; Kialai (dist Kanyakumari), Thirparappu (dist Kanyakumari), Nalumukku (dist Tirunelveli) 7 Each; **Himachal Pradesh**: Kasauli (dist Solan) 10; Dharampur (dist Solan) 9; **Odisha**: Ghasipura (dist Keonjhar) 10; Anandpur (dist Keonjhar) 9; Kamakhyanagar (dist Dhenkanal) 8; Raigarh (dist Nawarangpur), Altuma (dist Dhenkanal), Hatadihi (dist Keonjhar), Khaira (dist Balasore) 7 Each; **West Uttar Pradesh**: Chandpur (dist Bijnor) 9; Moradabad (dist Moradabad) 8; Jansath (dist Muzaffarnagar), Moradabad (dist Moradabad) 7 Each; **Bihar**: Barari (dist Katihar), Pranpur (dist Katihar) 8 Each; **Gangetic West Bengal**: PTO Tarakeswar (dist Hooghly) 8; Durgachack (dist East Midnapore) 7; **Assam & Meghalaya**: Dalgaoon ARG (dist Darrang) 7; **Jharkhand**: Manjhari (dist West Singhbhum) 7; **Uttarakhand**: Keertinagar (dist Garhwal Tehri) 7; **Punjab**: Nawanshahr (dist Sbs Nagar) 7; **Nagaland, Manipur, Mizoram & Tripura**: Bagafa (dist South Tripura) 7; **Sub Himalayan West Bengal & Sikkim**: Malda (dist Malda) 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 a few places over Andaman & Nicobar Islands and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Jharkhand, Bihar, West Uttar Pradesh, Uttarakhand, Punjab, Himachal Pradesh and Tamil Nadu, Puducherry & Karaikal.

❖ **Minimum Temperature Departures (as on 12-06-2026): markedly above normal(> 5.1°C)** at few places over East Rajasthan and East Madhya Pradesh; at isolated places over Assam & Meghalaya, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, West Madhya Pradesh, Gujarat Region, Saurashtra & Kutch and Vidarbha. **appreciably above normal(3.1°C to 5.0°C)** at many places over Konkan & Goa; at few places over West Rajasthan, Marathwada and Lakshadweep; at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Odisha, Bihar, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at many places over Madhya Maharashtra; at few places over Coastal Karnataka and North Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Jharkhand; at most places over Arunachal Pradesh, South Interior Karnataka and Kerala & Mahe; at few places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad and Chhattisgarh; at isolated places over Gangetic West Bengal. **The lowest minimum temperature** of 19.0°C was reported at JEUR (MAHARASHTRA) over the Plains of India.

❖ **Maximum Temperature Departures (as on 11-06-2026): markedly above normal(> 5.1°C)** at a few places over Vidarbha; at isolated places over East Madhya Pradesh, Madhya Maharashtra, Odisha. **appreciably above normal (3.1°C to 5.0°C)** at many places over Konkan & Goa, Marathwada, Telangana; at isolated places over Coastal Andhra Pradesh & Yanam, East Rajasthan, East Uttar Pradesh, Gangetic West Bengal, Gujarat Region, Haryana-Chandigarh-Delhi, Himachal Pradesh, Jammu & Kashmir, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, West Madhya Pradesh, West Rajasthan. **above normal (1.6°C to 3.0°C)** at most places over North Interior Karnataka; at a few places over Coastal Karnataka, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema; at isolated places over Assam & Meghalaya, Chhattisgarh, West Uttar Pradesh. **The highest maximum temperature** of 46.0°C was reported at JAISALMER(RAJASTHAN).

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

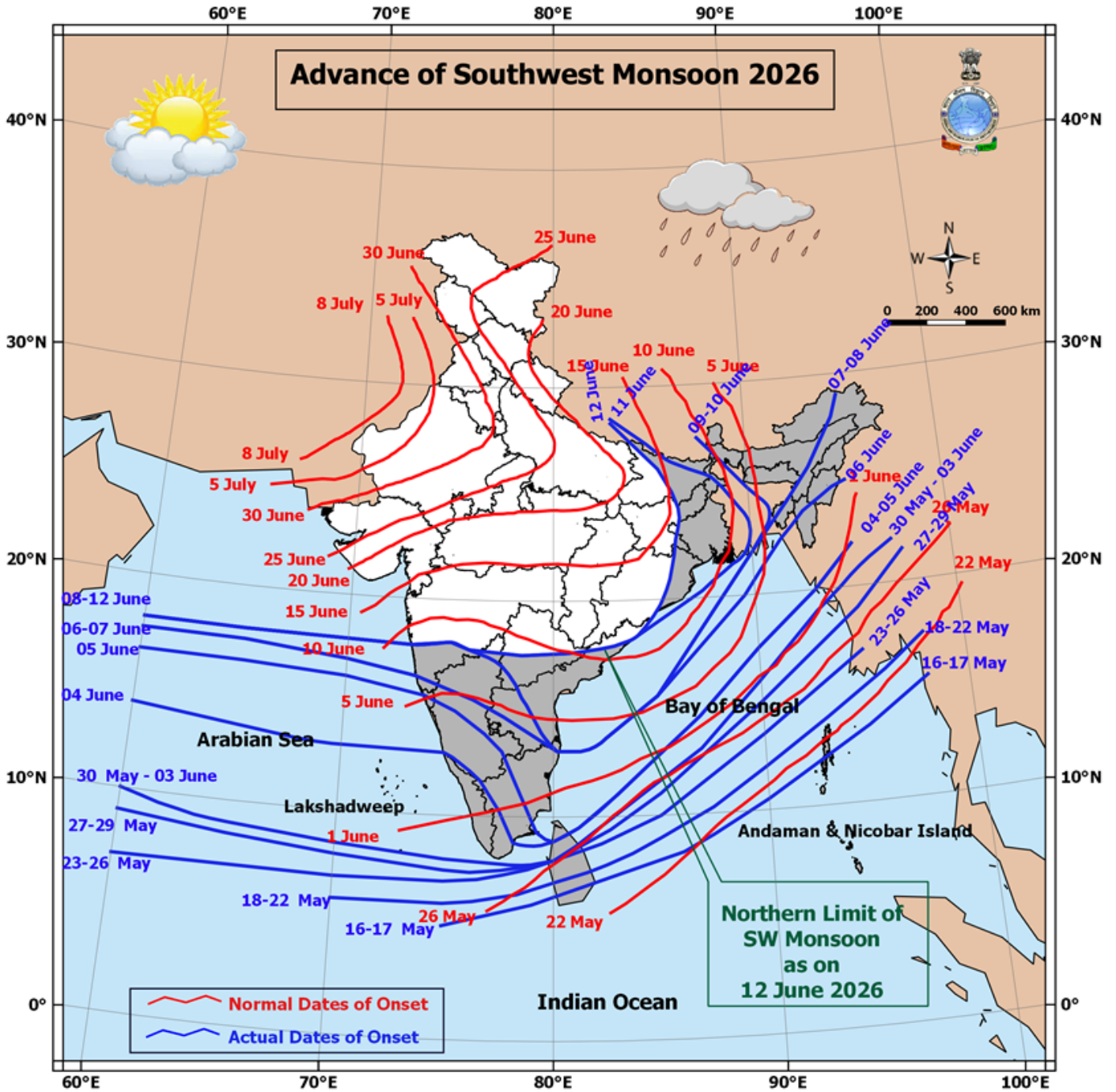
- The **Southwest Monsoon** has further advanced into entire northwest Bay of Bengal, some more parts of westcentral Bay of Bengal, West Bengal & Bihar, and some parts of Odisha & Jharkhand, today the 12<sup>th</sup> June, 2026.
- The **Northern Limit of Monsoon** passes through 18°N/60°E, 18°N/65°E, 18°N/70°E, Harnai, Solapur, Hyderabad, Bhadradi Kothagudem, Kalingapatnam, Paradeep, Baripada, Purulia, Dhanbad, Muzaffarpur and 28.3°N/83°E as on 12<sup>th</sup> June, 2026.
- **Conditions are favourable** for further advance of southwest monsoon into some more parts of central Arabian Sea, Maharashtra, remaining parts of Karnataka, Telangana, Andhra Pradesh, West Bengal & westcentral Bay of Bengal, some more parts of Odisha, Jharkhand & Bihar, and some parts of Chhattisgarh during next 2-3 days.
- The **Western Disturbance** as **cyclonic circulation** over north Haryana & neighbourhood at 3.1 km above mean sea level with a trough aloft in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 75°E to the north of Lat. 28°N persists.
- The **upper air cyclonic circulation** over central Pakistan & adjoining Punjab now lies over central Pakistan adjoining Northwest Rajasthan and extends upto 1.5 km above mean sea level.
- The **seasonal trough** at mean sea level now runs from the above **cyclonic circulation** over central Pakistan adjoining Northwest Rajasthan to south Gangetic West Bengal across north Rajasthan, north Madhya Pradesh, north Chhattisgarh & Jharkhand.
- A **trough** runs from central Pakistan adjoining Northwest Rajasthan to northwest Bay of Bengal across north Madhya Pradesh, north Chhattisgarh, Jharkhand, Gangetic West Bengal at 1.5 km above mean sea level.
- An **upper air cyclonic circulation** lies over Southeast Rajasthan & neighbourhood at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** now lies over coastal Bangladesh & adjoining north Bay of Bengal and extends upto 3.1 km above mean sea level.
- The **upper air cyclonic circulation** over north Tamil Nadu coast now lies over north coastal Tamil Nadu at 3.1 km above mean sea level.
- A **shear zone** runs around 11°N across the above cyclonic circulation over north coastal Tamil Nadu at 3.1 km above mean sea level.
- The **upper air cyclonic circulation** over south Coastal Andhra Pradesh & neighbourhood at 5.8 km above mean sea level persists.
- An **upper air cyclonic circulation** lies over central Assam at 3.1 km above mean sea level.

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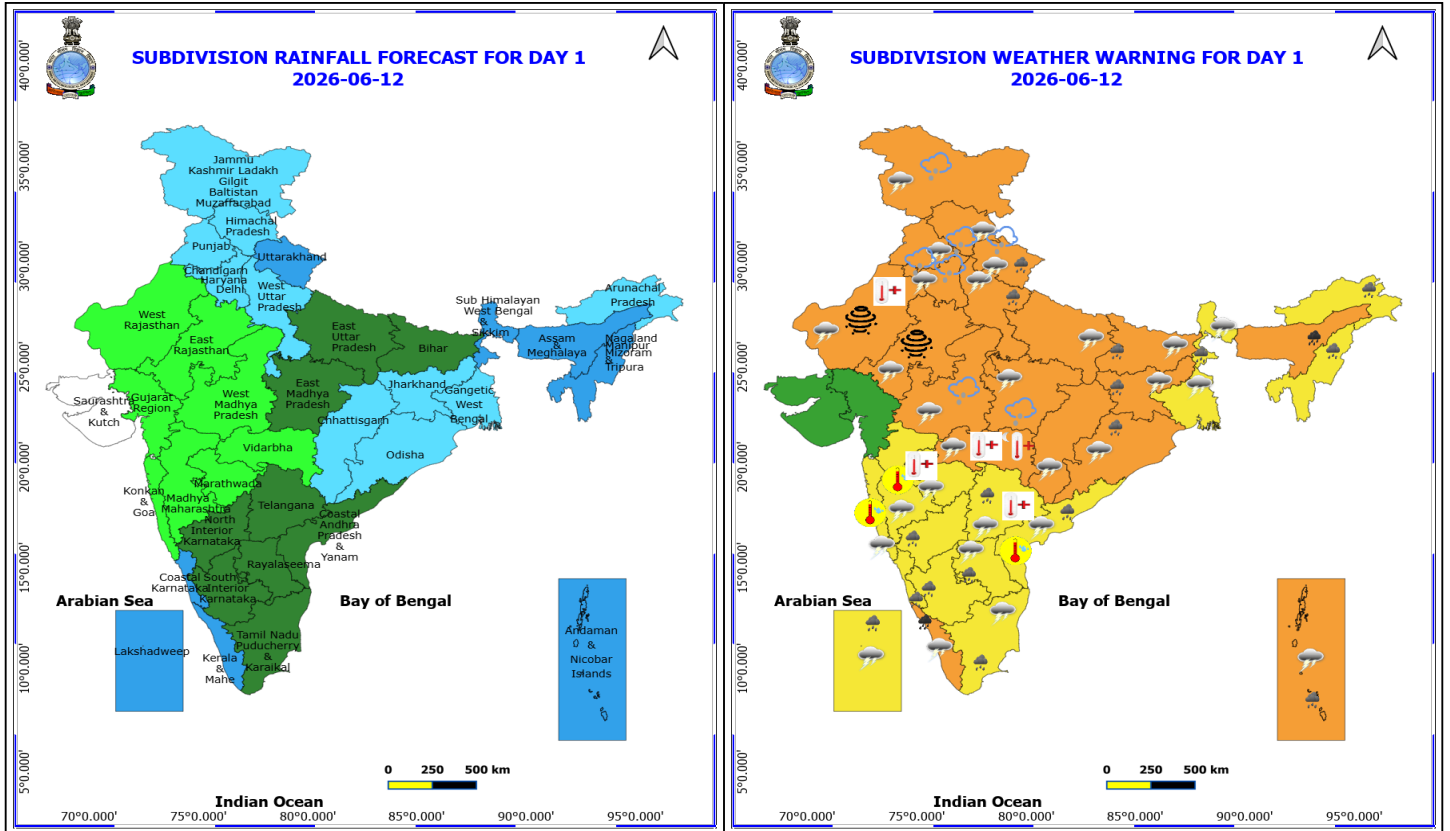
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**12 June (Day 1)**

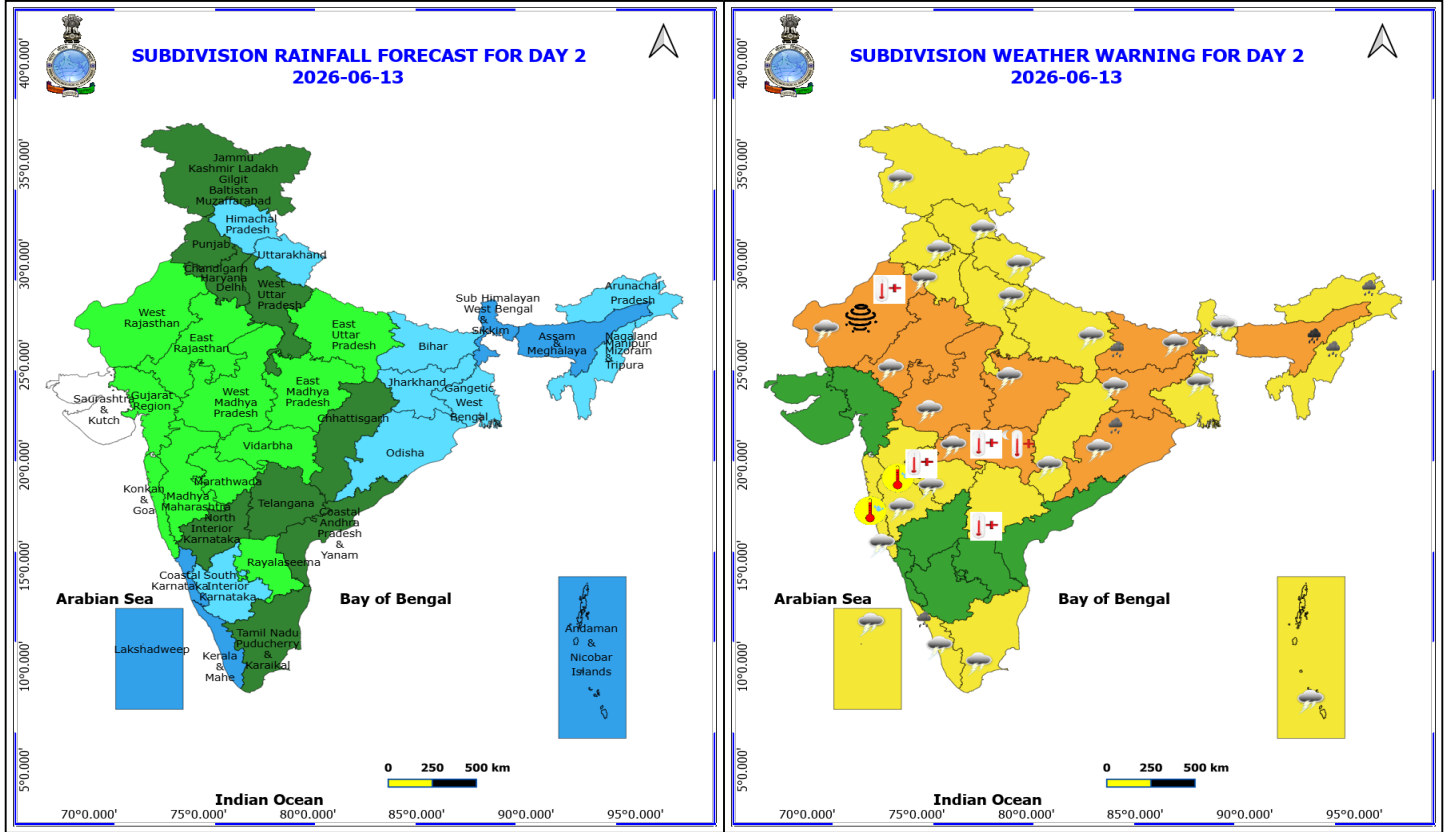
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya and Kerala & Mahe.
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Bihar, Jharkhand, Karnataka, Lakshadweep, Nagaland, Manipur, Mizoram and Tripura, Odisha, Sub Himalayan West Bengal & Sikkim, Tamil Nadu Puducherry & Karaikal, Telangana, Uttarakhand and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Punjab and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(60-70kmph) gusting to 80 kmph** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Rajasthan and West Uttar Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Andaman & Nicobar Islands, Bihar, Chhattisgarh, East Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Madhya Pradesh, Odisha and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh, Kerala & Mahe, Konkan & Goa, Lakshadweep, Maharashtra, Tamil Nadu Puducherry & Karaikal, Telangana and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Interior Karnataka.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam &

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Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

- ❖ **Dust Storm** very likely at isolated places over Rajasthan.
  - ❖ **Heat Wave conditions** very likely at isolated places over Marathwada, Telangana, Vidarbha and West Rajasthan.
  - ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Konkan & Goa and Madhya Maharashtra.
  - ❖ **Warm Night conditions** very likely at isolated places over Vidarbha.
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- ❖ **Arabian Sea: Arabian Sea: Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail along & off Somalia & Oman coasts, some parts of westcentral adjoining southwest Arabian Sea.
  - ❖ **Squally weather with wind speed 40-50 gusting to 60 kmph** is likely over along and off Karnataka, Kerala coasts, over Lakshadweep area adjoining parts of eastcentral Arabian Sea and Maldives areas.
  - ❖ **Bay of Bengal: Squally Weather with wind speed 40-50 kmph gusting to 60 kmph** is likely to prevail over Gulf of Mannar, Comorin area, along and off Sri Lanka coasts, south Bay of Bengal, eastcentral adjoining westcentral Bay of Bengal and Andaman Sea.



**13 June (Day 2)**

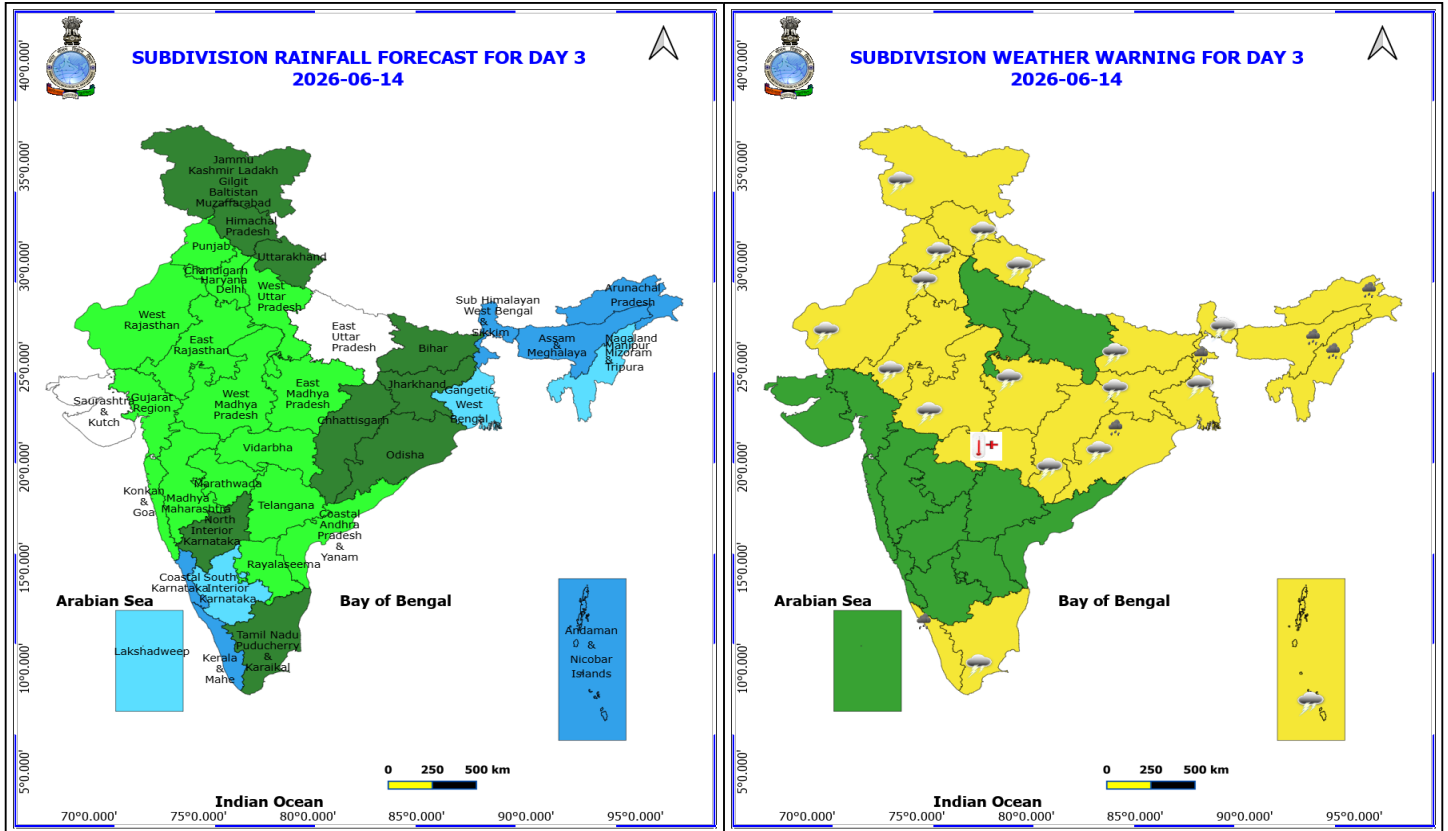
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Bihar, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(60-70kmph) gusting to 80 kmph** very likely at isolated places over Rajasthan.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar, Jharkhand, Madhya Pradesh and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands, Chhattisgarh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Kerala & Mahe, Konkan & Goa, Lakshadweep, Maharashtra, Punjab, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh, Uttarakhand and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Interior Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Dust Storm** very likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** very likely at isolated places over Marathwada, Telangana, Vidarbha and West Rajasthan.

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- ❖ **Hot and Humid weather** very likely at isolated places over Konkan & Goa and Madhya Maharashtra.
- ❖ **Warm Night conditions** very likely at isolated places over Vidarbha.

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- ❖ **Arabian Sea: Arabian Sea: Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail along & off Somalia & Oman coasts, some parts of westcentral adjoining some parts of southwest Arabian Sea.
- ❖ **Squally weather with wind speed 40-50 gusting to 60 kmph** is likely over east central adjoining southeast Arabian sea.
- ❖ **Bay of Bengal: Squally Weather with wind speed 40-50 kmph gusting to 60 kmph** is likely to prevail over Gulf of Mannar, Comorin area, along and off Sri Lanka coasts, southwest Bay of Bengal adjoining southeast & adjoining few parts of central Bay of Bengal and Andaman Sea.



### 14 June (Day 3)

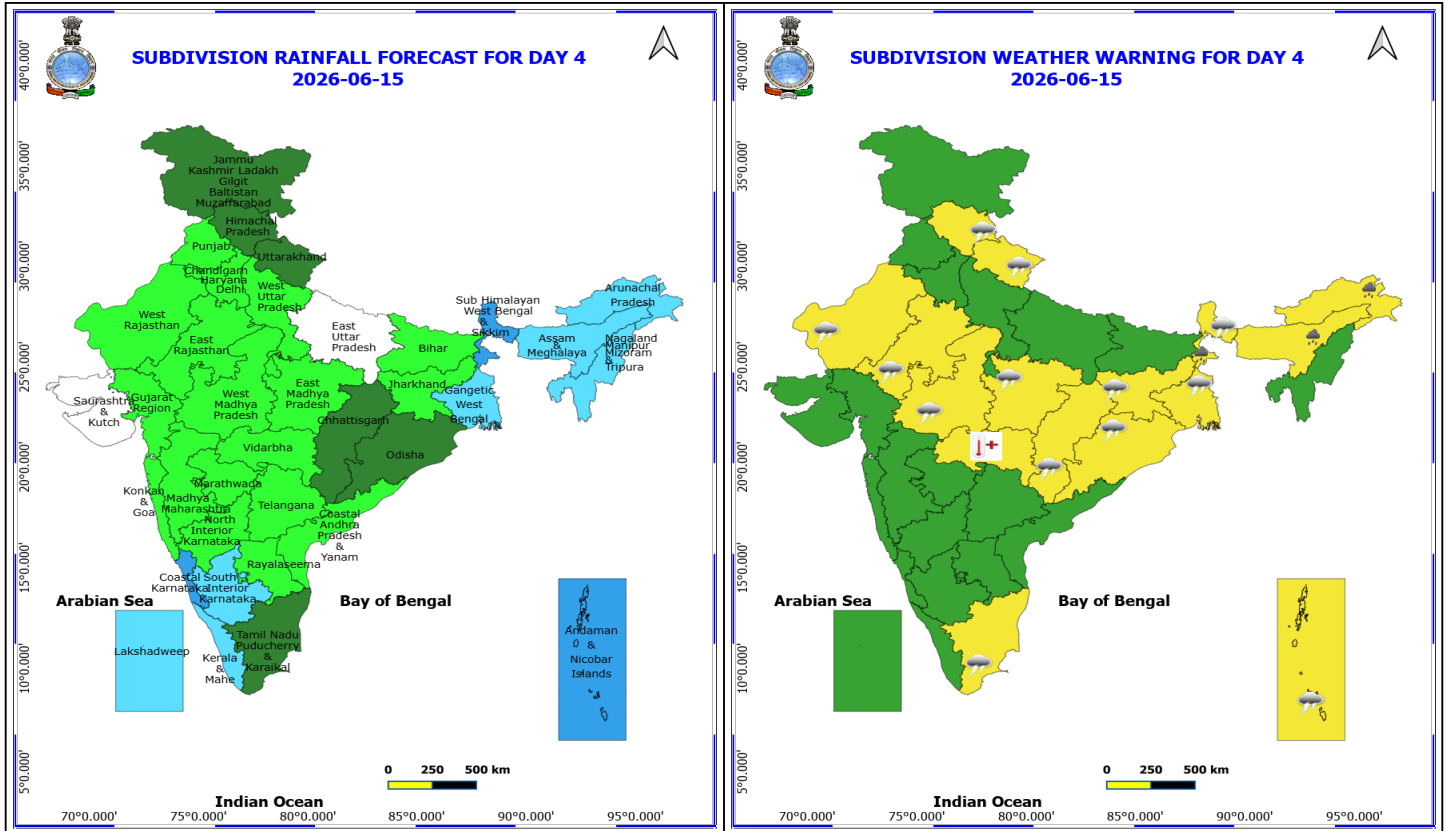
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, Odisha and Sub Himalayan West Bengal & Sikkim.
  - ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands, Bihar, Chhattisgarh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Madhya Pradesh, Odisha, Punjab, Rajasthan, Tamil Nadu Puducherry & Karaikal, Uttarakhand and West Bengal & Sikkim.
  - ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Interior Karnataka, Telangana and Vidarbha.
  - ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
  - ❖ **Heat Wave conditions** very likely at isolated places over Vidarbha.
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- ❖ **Arabian Sea:** Arabian Sea: **Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail along & off Somalia & Oman coasts, some parts of westcentral adjoining some parts of southwest Arabian Sea.
  - ❖ **Squally weather with wind speed 40-50 gusting to 60 kmph** is likely over east central adjoining southeast Arabian sea.
  - ❖ **Bay of Bengal:** **Squally Weather with wind speed 40-50 kmph gusting to 60 kmph** is likely to prevail over Gulf of Mannar, Comorin area, along and off Sri Lanka coasts, southwest Bay of Bengal adjoining westcentral & southeast Bay of Bengal and Andaman Sea.

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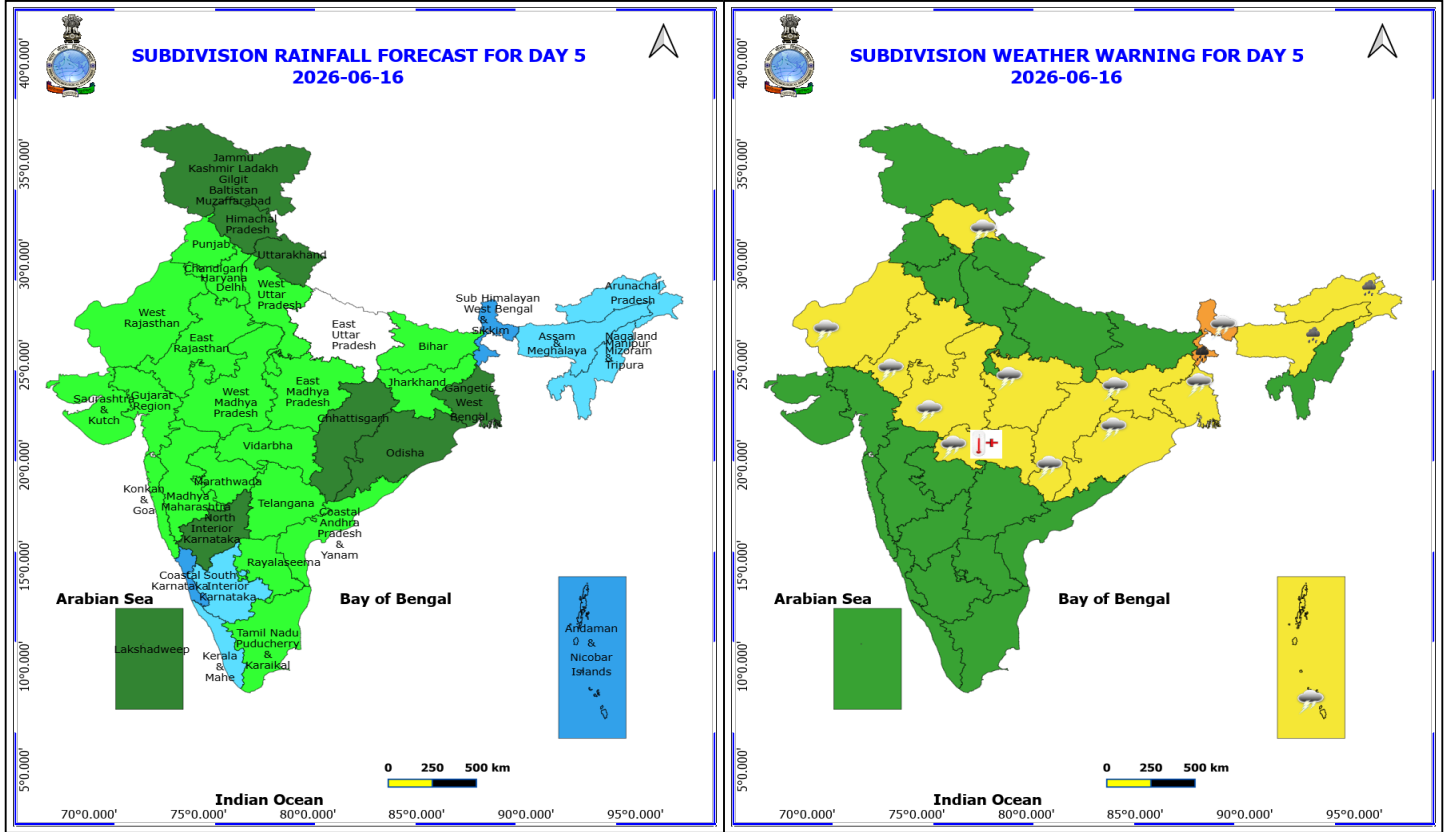


**15 June (Day 4)**

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.
  - ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands, Chhattisgarh, Himachal Pradesh, Jharkhand, Madhya Pradesh, Odisha, Rajasthan, Tamil Nadu Puducherry & Karaikal, Uttarakhand and West Bengal & Sikkim.
  - ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Bihar, Interior Karnataka, Telangana and Vidarbha.
  - ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
  - ❖ **Heat Wave conditions** likely at isolated places over Vidarbha.
- 
- ❖ **Arabian Sea:** Arabian Sea: **Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia adjoining southwest & westcentral Arabian Sea.
  - ❖ **Squally weather with wind speed 40-50 gusting to 60 kmph** is likely over some parts of east central Arabian sea.
  - ❖ **Bay of Bengal:** **Squally Weather with wind speed 40-50 kmph gusting to 60 kmph** is likely to prevail over Gulf of Mannar, Comorin area, along and off Sri Lanka coasts, southwest Bay of Bengal adjoining westcentral & southeast Bay of Bengal and Andaman Sea.

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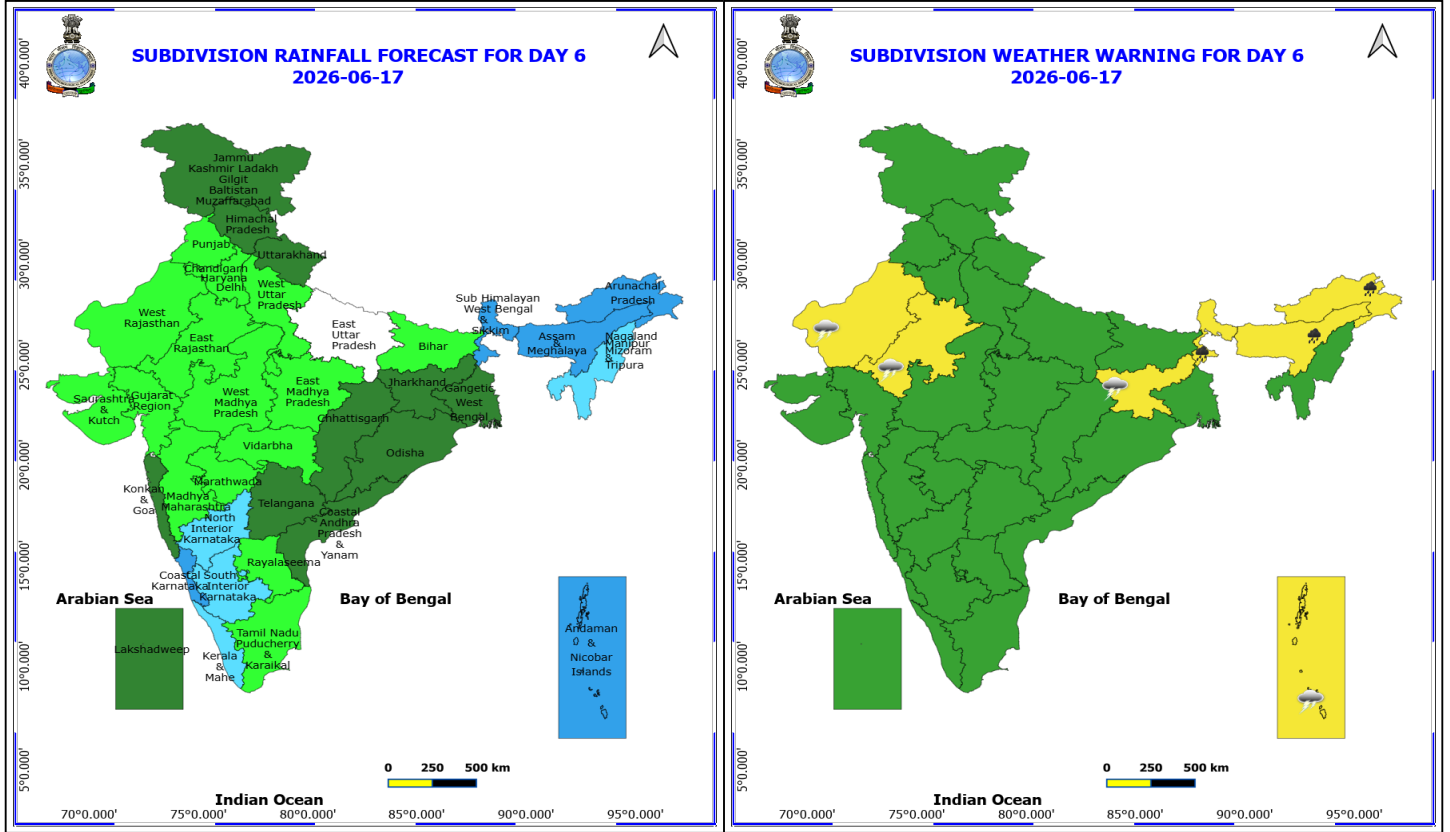
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**16 June (Day 5)**

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands, Chhattisgarh, Himachal Pradesh, Jharkhand, Madhya Pradesh, Odisha, Rajasthan, Vidarbha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Bihar, North Interior Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** likely at isolated places over Vidarbha.

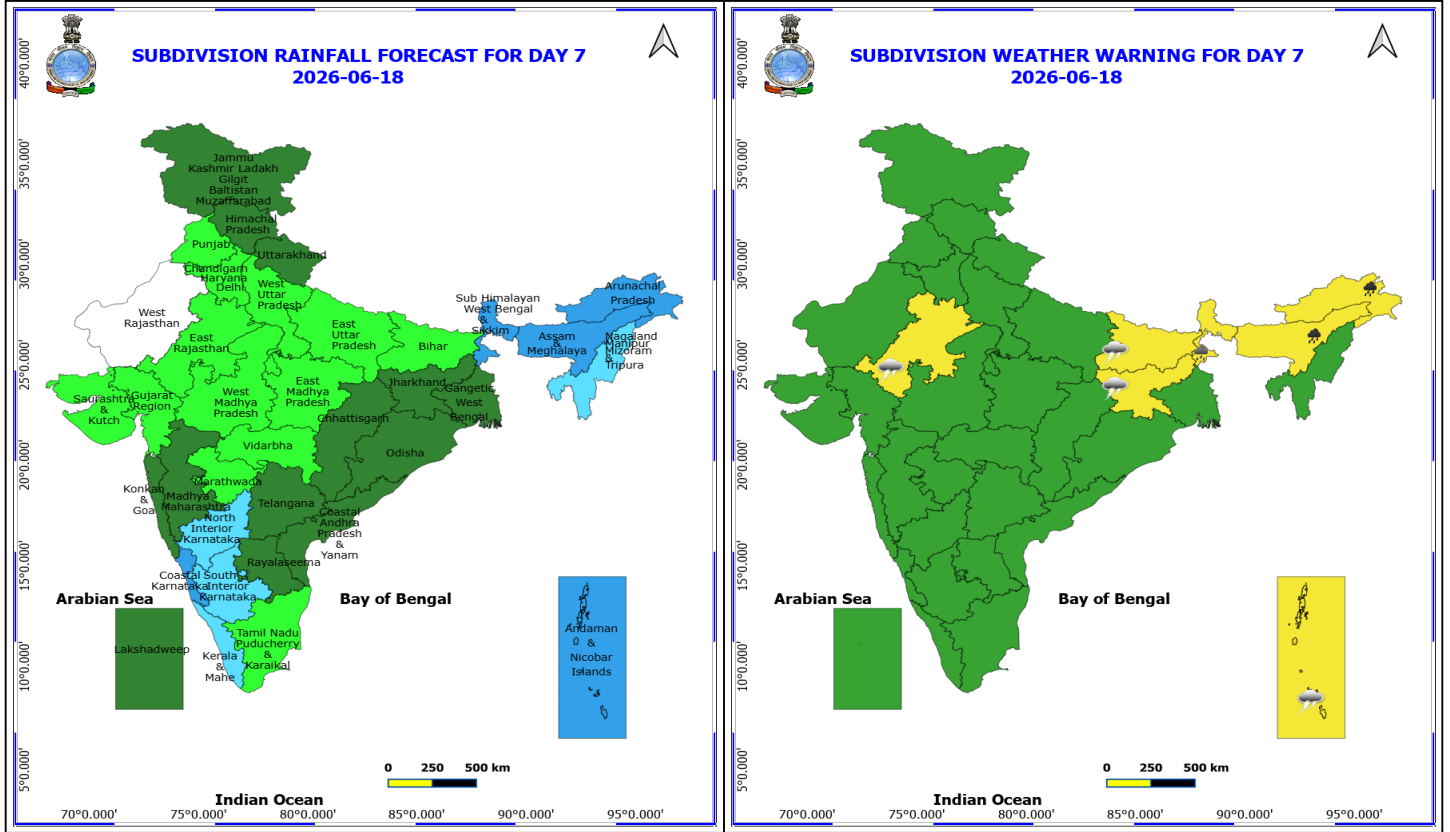
**No Fishermen Warning**



**17 June (Day 6)**

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands, Jharkhand and Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

**No Fishermen Warning**



**18 June (Day 7)**

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Heavy Rainfall** likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Bihar.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands, East Rajasthan and Jharkhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

**No Fishermen Warning**

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### Flash Flood Warnings

**24 hours Outlook for the Flash Flood Risk (FFR) till  
1130 IST of 13-06-2026 :**

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

**Himachal Pradesh** - Mandi and Shimla districts.

**Uttarakhand** - Bageshwar, Chamoli, Pauri Garhwal,  
Pithoragarh, Tehri Garwal and Uttarkashi districts.

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	12- Jun	13- Jun	14- Jun	15- Jun	16- Jun	17- Jun	18- Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	WS	FWS	FWS	WS	WS
3	ASSAM & MEHGHALAYA	WS	WS	WS	FWS	FWS	WS	WS
4	N. M. M. & T.	WS	FWS	FWS	FWS	FWS	FWS	FWS
5	S.H. WEST BENGAL & SIKKIM	WS	WS	WS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	FWS	FWS	FWS	FWS	SCT	SCT	SCT
7	ODISHA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
8	JHARKHAND	FWS	FWS	SCT	ISOL	ISOL	SCT	SCT
9	BIHAR	SCT	FWS	SCT	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	SCT	ISOL	DRY	DRY	DRY	DRY	ISOL
11	WEST UTTAR PRADESH	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
12	UTTARAKHAND	WS	FWS	SCT	SCT	SCT	SCT	SCT
13	HARYANA, CHD & DELHI	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	FWS	FWS	SCT	SCT	SCT	SCT	SCT
16	JAMMU AND KASHMIR AND LADAKH	FWS	SCT	SCT	SCT	SCT	SCT	SCT
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJRAT REGION	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHATTISGARH	FWS	SCT	SCT	SCT	SCT	SCT	SCT
28	COASTAL ANDHRA PRADESH	SCT	SCT	ISOL	ISOL	ISOL	SCT	SCT
29	TELANGANA	SCT	SCT	ISOL	ISOL	ISOL	SCT	SCT
30	RAYALASEEMA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
31	TAMILNADU & PUDUCHERRY	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	SCT	SCT	ISOL	SCT	FWS	FWS
34	SOUTH INTERIOR KARNATAKA	SCT	FWS	FWS	FWS	FWS	FWS	FWS
35	KERALA	WS	WS	WS	FWS	FWS	FWS	FWS
36	LAKSHDWEEP	WS	WS	FWS	FWS	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 2026-06-11

Fig. 2: Departure of Maximum Temp. Dated 2026-06-11

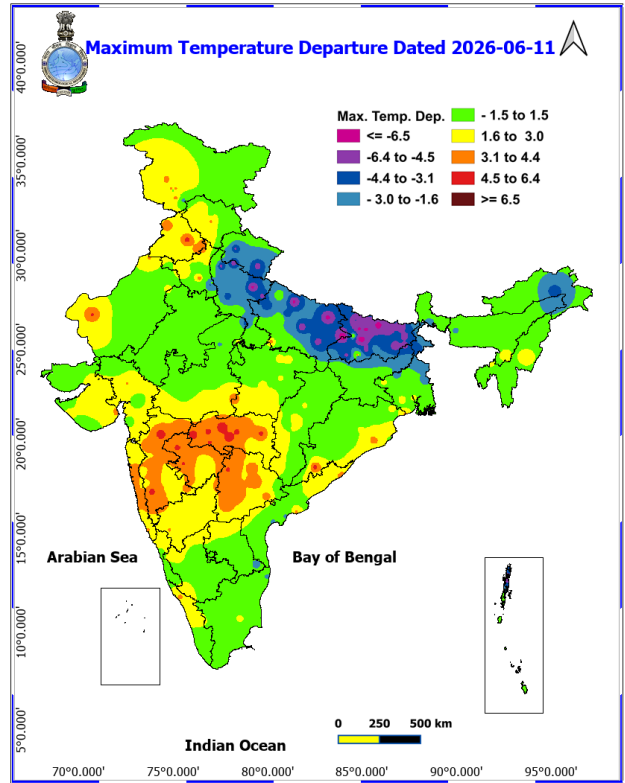
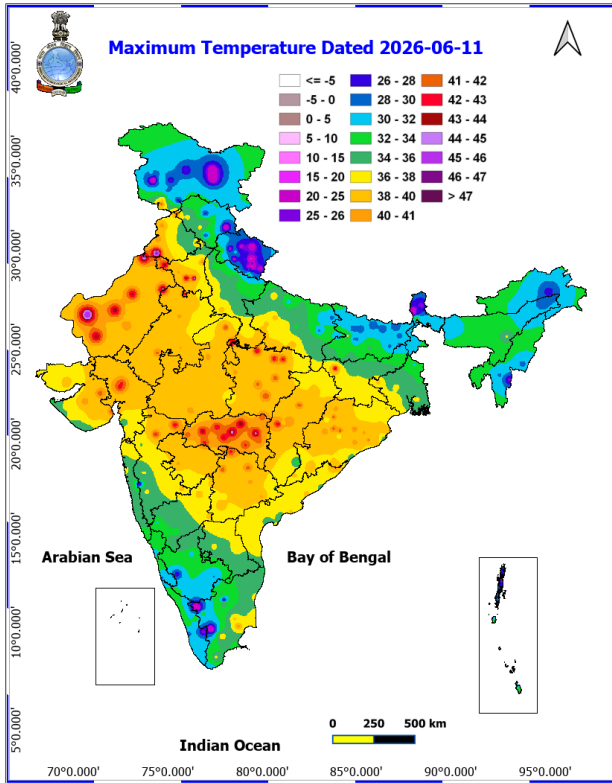
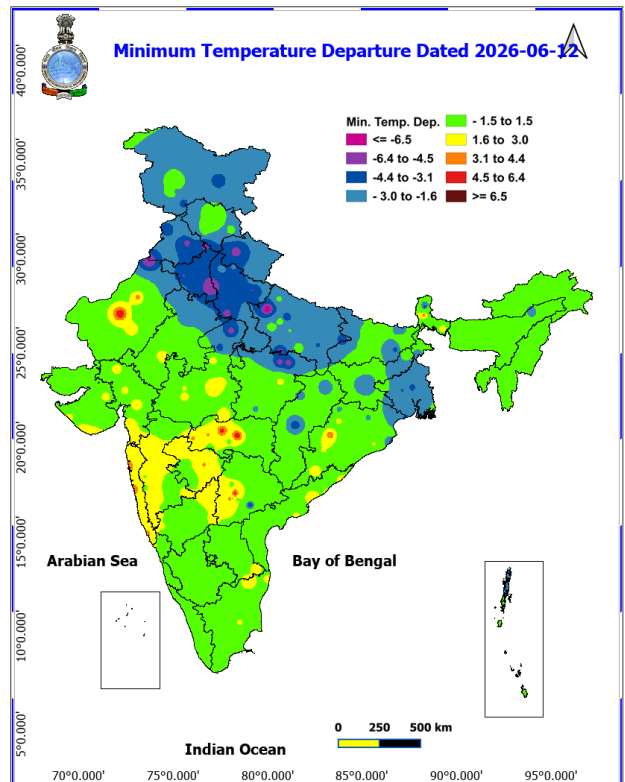
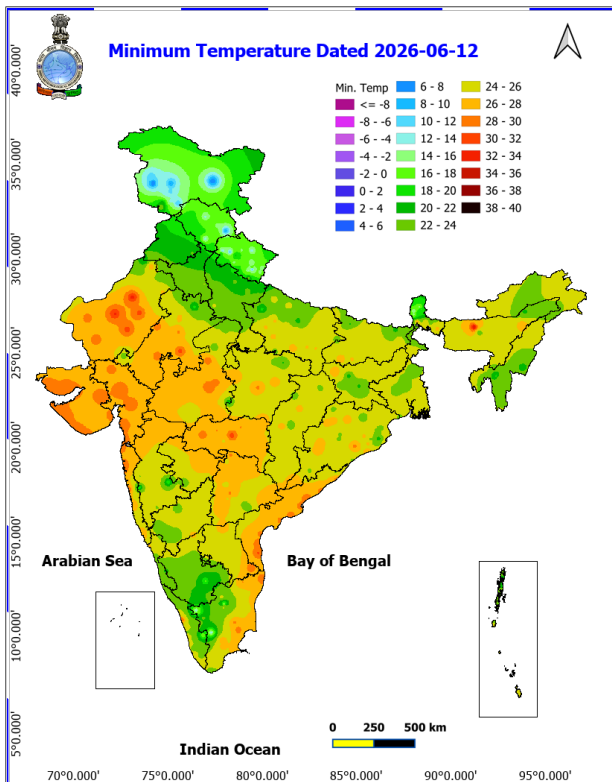
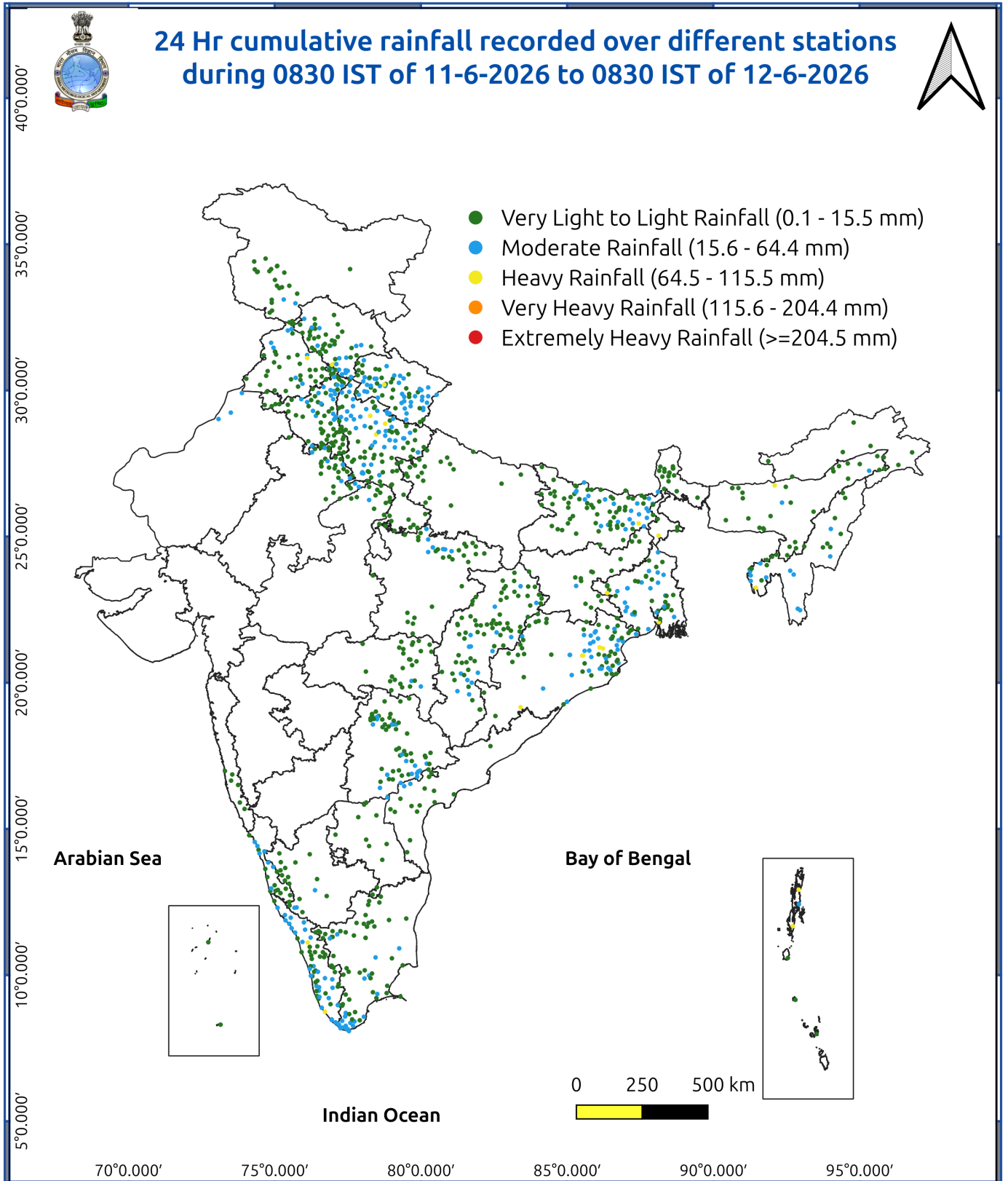


Fig. 3: Minimum Temperatures Dated 2026-06-12

Fig. 4: Departure of Minimum Temp. Dated 2026-06-12





## Impact and Actions

### Impact Expected & Action Suggested due to Extremely/ very heavy/ heavy rainfall over

- Isolated **heavy rainfall** likely over Uttarakhand and West Uttar Pradesh on 12th June; Andaman & Nicobar Islands and Jharkhand on 12th June; Sub-Himalayan West Bengal & Sikkim during 12th-15th June and on 18th June; Bihar during 12th-13th June; Odisha during 12th-14th June; Arunachal Pradesh during 12th-16th June; Assam & Meghalaya during 14th-16th June; Nagaland, Manipur, Mizoram & Tripura during 12th-14th June; Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Lakshadweep, North Interior Karnataka, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Telangana on 12th June; Kerala & Mahe during 13th-14th June.
- Isolated **very heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim during 16th-17th June; Arunachal Pradesh during 17th-18th June; Assam & Meghalaya during 12th-13th June and during 17th-18th June; Kerala & Mahe on 12th June.

### Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- 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 kutch 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 (for riverine flooding please visit Web page of CWC).

### Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

### Impact Expected & Action Suggested due to

- **Thundersquall (wind speed reaching 60-70 kmph gusting to 80 kmph)** likely over Haryana Chandigarh & Delhi, Punjab and West Uttar Pradesh on 12th June; East Rajasthan and West Rajasthan during 12th-13th June;
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over East Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand on 12th June; East Madhya Pradesh and West Madhya Pradesh during 12th-13th June; Chhattisgarh on 12th June; Andaman & Nicobar Islands on 12th June; Jharkhand and Odisha during 12th-13th June; Bihar during 12th-13th June and on 18th June.
- Isolated **Hailstorm** activity likely over Haryana Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab and Uttarakhand on 12th June; East Madhya Pradesh and West Madhya Pradesh on 12th June.

### Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.

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- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

#### Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

#### Impact Expected & Action Suggested due to

- **Heat wave** conditions very likely in isolated pockets over Marathwada during 12th-13th June; Telangana during 12th-13th June; Vidarbha during 12th-16th June; West Rajasthan during 12th-13th June.

#### Alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure— keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

#### Agromet advisories for various parts of the country

##### Agromet advisories for likely impact of Hailstorms

- In **Jammu & Kashamir, Himachal Pradesh, Uttarakhand, Punjab, Haryana** and **Madhya Pradesh**, use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage. Ensure effective field drainage to prevent waterlogging. Undertake picking of matured fruits at the earliest. Keep the harvested produce in safe places.

##### Agromet advisories for likely impact of Heavy Rainfall

- In **Arunachal Pradesh**, ensure proper drainage in vegetables, maize, rice nursery and other crop fields to prevent waterlogging. Immediately drain stagnant water from paddy nurseries to prevent seedling damage. Protect paddy nurseries with polythene covers to minimize damage from heavy rain.
- In **Assam**, ensure proper drainage arrangements for quick removal of excess water from rice nurseries, jute, ginger, vegetables, banana, citrus and papaya. Postpone nursery sowing of *Sali* rice. Cover the rice nursery beds with thin polythene sheet. Provide mechanical support to the sugarcane crop to prevent lodging.
- In **Meghalaya**, ensure proper drainage channels in maize, ginger, cowpea, vegetable fields and banana plantations. Protect young seedlings from direct exposure to heavy rainfall. Use propping (bamboo or wooden poles) to support heavily laden plants.
- In **Tripura**, harvest *Boro* rice and immediately transfer the grains to a safer place.
- In **Sub Himalayan West Belgal**, keep the harvested produce of rice and other vegetables in safe and dry

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place. Provide adequate drainage in ginger, tomato and dalley khorsani fields and nurseries of *kharif* rice and vegetables.

- In **Andaman & Nicobar Islands**, ensure proper drainage in coconut gardens and avoid water stagnation around basins.
- In **Keralam**, drain out excess water from banana, coconut, cardamom, ginger, black pepper and vegetables. Provide staking support in banana plants and strengthen the pandals of vegetable crops. Avoid transplanting of rice during heavy rain.
- In **Tamil Nadu**, maintain proper drainage in rice, cumbu, groundnut, sugarcane, banana and vegetables. Keep the harvested produce at safe places.
- In **South Coastal Andhra Pradesh**, provide adequate drainage in standing crop fields to prevent waterlogging.
- In **Karnataka**, ensure proper drainage in paddy fields, areca nut groves, mango orchards and other standing crops. Keep the harvested produce in safe places. Provide staking to tomato plants.
- In **Telangana**, keep harvested vegetables and fruits under shade and cover them with tarpaulin or plastic sheets to protect from damage.

#### Agromet advisories for likely impact of High temperatures / Heat Waves

- In **North Coastal Andhra Pradesh**, apply need based irrigation in vegetable nurseries.
- In **Vidarbha** and **Marathwada**, apply light irrigation as per requirement in vegetable crops and fruit orchards.
- In **Telangana**, adopt mulching in tomato to conserve soil moisture and also apply foliar spray of Calcium Nitrate @ 5 g per litre of water.

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

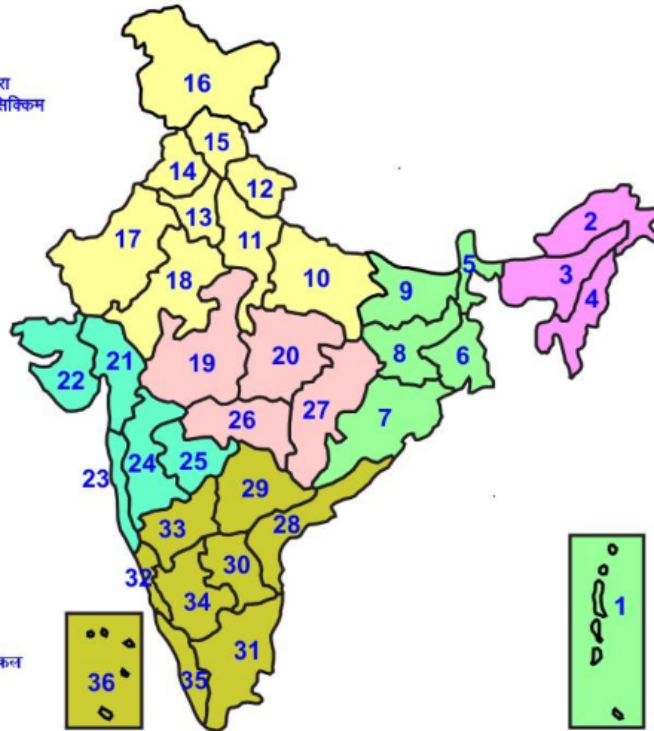
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables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

#### Livestock / Poultry / Fisheries

- Keep the animals inside the shed during hailstorms / heavy rainfall and provide them balanced feed.
- Store the feed and fodder in a safe place to prevent spoilage.
- In regions with high temperatures and heat wave conditions, provide clean, cool drinking water to animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects of heat.
- 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 चंडिगढ़ 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 मराठावाडा
- 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

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

### Probabilistic Forecast

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



Rain/ Snow \*

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



Heat Wave

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

Heat Wave: Maximum Temperature Departure from normal $4.5^{\circ}\text{C}$ to $6.4^{\circ}\text{C}$ .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$ .
Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

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



Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure $4.5^{\circ}\text{C}$ to $6.4^{\circ}\text{C}$ .
Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$ .



Cold Wave

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

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal $-4.5^{\circ}\text{C}$ to $-6.4^{\circ}\text{C}$ .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

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

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

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



Cold Day

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

Cold Day: Maximum Temperature Departure from normal $-4.5^{\circ}\text{C}$ to $-6.4^{\circ}\text{C}$ .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Fog

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

Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50- 200 metres
Very Dense Fog: when the visibility $< 50$ metres



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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

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

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



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed $> 117$ kmph ( $> 63$ knots) & Wave height $> 14$ metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
Super Cyclone Strom: Wind speed $> 220$ kmph ( $> 119$ knots)

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

Forecast and warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit <https://mausam.imd.gov.in> or contact 011-2434-4599

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