

2025-06-19

Time of Issue: 14:08:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings

##### • East & Central India:

Light/moderate rainfall at most/many places accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Andaman & Nicobar Islands on 19<sup>th</sup> & 20<sup>th</sup>; Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha during 19<sup>th</sup>-25<sup>th</sup> June.

**Extremely heavy rainfall (>20 cm/24 hours) likely at isolated places over Jharkhand on 19<sup>th</sup> June.**

Isolated **heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim during 22<sup>nd</sup>-24<sup>th</sup>, Gangetic West Bengal on 22<sup>nd</sup> & 25<sup>th</sup>, Bihar during 19<sup>th</sup>-23<sup>rd</sup>; Jharkhand, Odisha during 19<sup>th</sup>-22<sup>nd</sup>, Madhya Pradesh during 19<sup>th</sup>-25<sup>th</sup> June with **very heavy rainfall** over Bihar, West Bengal, Odisha on 19<sup>th</sup>, Jharkhand on 20<sup>th</sup>, East Madhya Pradesh on 21<sup>st</sup>; Madhya Pradesh on 24<sup>th</sup> & 25<sup>th</sup> and over Chhattisgarh on 19<sup>th</sup> & 20<sup>th</sup> June.

##### West India:

Light/moderate rainfall at most/many places likely over Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathawada during 19<sup>th</sup> -25<sup>th</sup> June.

**Extremely heavy rainfall (>20 cm/24 hours) likely at isolated places over Konkan, ghat areas of Madhya Maharashtra, Gujarat Region on 19<sup>th</sup> June.**

Isolated **heavy rainfall** likely over Konkan & Goa, Madhya Maharashtra, Gujarat state during 19<sup>th</sup>-25<sup>th</sup> with **very heavy rainfall** on Madhya Maharashtra on 20<sup>th</sup>, Gujarat region on 22<sup>nd</sup> & 23<sup>rd</sup> June.

##### Northeast India:

Light/moderate rainfall at many/most places accompanied with **thunderstorm, lightning and isolated heavy to very heavy rainfall** likely to continue over Northeast India during next 7 days.

##### Northwest India:

Light/moderate rainfall at most/many places accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Northwest India during 19<sup>th</sup>-24<sup>th</sup> June.

Isolated **heavy rainfall** likely over Uttarakhand, Uttar Pradesh, East Rajasthan during 19<sup>th</sup>-25<sup>th</sup>; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 22<sup>nd</sup> & 25<sup>th</sup>; Himachal Pradesh, Punjab during 21<sup>st</sup>-25<sup>th</sup>; Haryana, Chandigarh during 20<sup>th</sup>-25<sup>th</sup>; with **very heavy rainfall** on West Uttar Pradesh on 19<sup>th</sup>; East Uttar Pradesh on 20<sup>th</sup> & 21<sup>st</sup>; East Rajasthan on 19<sup>th</sup> & 23<sup>rd</sup>, Uttarakhand on 22<sup>nd</sup>, Himachal Pradesh on 22<sup>nd</sup> & 25<sup>th</sup> June.

##### South Peninsular India:

Light/moderate rainfall at many/some places accompanied with isolated **thunderstorm, lightning** over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Karnataka on 19<sup>th</sup>; Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana during 19<sup>th</sup>-23<sup>rd</sup> June.

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Isolated **heavy rainfall** likely over Kerala & Mahe on 19<sup>th</sup> & during 22<sup>nd</sup>-25<sup>th</sup>; Coastal Karnataka on 19<sup>th</sup> and during 21<sup>st</sup>-25<sup>th</sup> June.

**Strong surface winds** (speed reaching 40-60 kmph) very likely over Kerala & Mahe, Lakshadweep, Karnataka on 19<sup>th</sup>, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema during 19<sup>th</sup> -21<sup>st</sup> June.

**Maximum Temperature Forecast:**

Fall by 2-4°C in maximum temperatures likely over Madhya Pradesh during next 5 days and no large change thereafter. No significant change in maximum temperatures likely over rest parts of the country.

**Hot & Humid Conditions warnings:**

**Hot & Humid conditions** very likely in isolated pockets of Tamil Nadu, Coastal Andhra Pradesh & Yanam, Rayalaseema during 19<sup>th</sup>-21<sup>st</sup> June.



### Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, Kerala & Mahe and Lakshadweep; **at many places** over Andaman & Nicobar Islands, Bihar, Uttarakhand, East Rajasthan, West Madhya Pradesh and Chhattisgarh; **at a few places** over East Uttar Pradesh, West Uttar Pradesh, Saurashtra & Kutch, Vidarbha, North Interior Karnataka and South Interior Karnataka; **at isolated places** over Haryana-Chandigarh-Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Madhya Pradesh, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Assam & Meghalaya**: Mawsynram (dist East Khasi Hills) 31; Cherrapunji(rkm) (dist East Khasi Hills), Mawkyrwat (dist South West Khasi Hills) 20 Each; Cherrapunji (dist East Khasi Hills) 19; Mawkyrwat ARG (dist South West Khasi Hills) 13; Mawphlang (dist East Khasi Hills) 11; Bijni ARG (dist Chirang) 8; Kokrajhar (dist Kokrajhar), Khliehriat (dist East Jaintia Hills) 7 Each; **Gujarat Region**: Kaprada (dist Valsad), Dangs (ahwa) (dist Dangs) 26 Each; Dharampur (dist Valsad), Subir (dist Dangs), Dang Kvk AWS (dist Dangs) 21 Each; Waghai (dist Dangs) 20; Silvassa (dist Dadara & Nagar Haveli) 18; Nanipalson (dist Valsad) 17; Vansda (dist Navsari) 16; Madhbun (dist Dadara & Nagar Haveli), Khergam (dist Navsari) 13 Each; Vapi (dist Valsad), Dolvan (dist Tapi) 11 Each; Godhra (dist Panchmahal), Pardi (dist Valsad), Mansa (dist Gandhinagar) 10 Each; Dahegam (dist Gandhinagar) 9; Chikhli (dist Navsari), Hansot (dist Bharuch), Sagbara (dist Narmada), Khanvel (dist Dadara & Nagar Haveli) 8 Each; Valia (dist Bharuch), Kapadvanj (dist Kheda), Dharoi Colony (dist Mehsana), Umerpada (dist Surat), Abad City (dist Ahmedabad) 7 Each; **Konkan & Goa**: Matheran (dist Raigad) 26; Wada (dist Palghar) 22; Panvel ARG (dist Raigad), Khalapur (dist Raigad) 20 Each; Pen (dist Raigad), Jawhar (dist Palghar) 19 Each; Mokheda - Fmo (dist Palghar), Uran (dist Raigad), Wakwali ARG (dist Ratnagiri) 17 Each; Sudhagad Pali (dist Raigad) 16; Palghar ARG (dist Palghar) 15; Colaba (dist Mumbai City) 14; Murbad (dist Thane), Mandangad (dist Ratnagiri), Roha (dist Raigad), Karjat ARG (dist Raigad), Vikramgad (dist Palghar), Mahad (dist Raigad), Mhasla (dist Raigad) 13 Each; Shriwardhan (dist Raigad), Alibag - IMD Part Time (dist Raigad) 12 Each; Mangaon (dist Raigad), Khed (dist Ratnagiri), Ambernath (dist Thane), Tala (dist Raigad), Dapoli ARG (dist Ratnagiri), Dahanu (dist Palghar) 11 Each; Poladpur (dist Raigad), Ulhasnagar (dist Thane) 10 Each; Tbia IMD Part Time (dist Thane), Talasari (dist Palghar), Bhiwandi (dist Thane) 9 Each; Shahapur (dist Thane), Ratnagiri (dist Ratnagiri), Sangameshwar Devrukh (dist Ratnagiri) 8 Each; Harnai IMD (dist Ratnagiri), Murud (dist Raigad), Chiplun (dist Ratnagiri), Vasai (dist Palghar), Lanja (dist Ratnagiri) 7 Each; **Gangetic West Bengal**: Kharidwar (dist Purulia) 21; Bankura(CWC) (dist Bankura) 19; Kansabati Dam (dist Bankura), Simula (dist Purulia), Phulberia (dist Purulia) 18 Each; D.p.ghat (dist Jhargram), Tusuma (dist Purulia) 17 Each; Lalgah (dist Jhargram) 16; Purihansa (dist Purulia), Purulia (dist Purulia), Bankura (dist Bankura) 14 Each; Jhargram PTO (dist Jhargram) 10; **Chhattisgarh**: Kusmi (dist Balrampur) 20; Sanna (dist Jashpur) 8; Manora (dist Jashpur), Doura Kochali (dist Balrampur) 7 Each; **Madhya Maharashtra**: Lonavala ARG (dist Pune) 20; Mahabaleshwar (dist Satara) 19; Surgana (dist Nashik), Igatpuri (dist Nashik) 16 Each; Peth (dist Nashik), Trimbakshwar (dist Nashik) 14 Each; Harsul - Fmo (dist Nashik) 13; Nandurbar (dist Nandurbar) 11; Radhanagari (dist Kolhapur) 9; Shahada (dist Nandurbar), Ozharkheda - Fmo (dist Nashik) 8 Each; Velhe (dist Pune) 7; **Odisha**: Tiring (dist Mayurbhanj) 18; Bahalda (dist Mayurbhanj), Chandua Kuliana (dist Mayurbhanj) 15 Each; Jamsolaghat (dist Mayurbhanj) 13; Jamda (dist Mayurbhanj), Sarasakana (dist Mayurbhanj) 12 Each; Joshipur (dist Mayurbhanj), Kusumi (dist Mayurbhanj) 11 Each; Bangiriposi (dist Mayurbhanj), Bijatala (dist Mayurbhanj), Rairangpur (dist Mayurbhanj) 10 Each; Chandanpur (dist Mayurbhanj), Sukruli (dist Mayurbhanj), Raruana (dist Mayurbhanj) 9 Each; Champua (dist Keonjhar), Altuma (dist Dhenkanal), Balisankara (dist Sundargarh) 8 Each; Tensa (dist Sundargarh) 7; **Sub Himalayan West Bengal & Sikkim**: Lava (dist Kalimpong) 16; Hilla T.e. (dist Jalpaiguri) 11; Pedong (dist Kalimpong), Kalimpong (dist Kalimpong), Amfu Kalimpong (dist Kalimpong) 10 Each; Soreng ARG (dist Soreng), Chalouni Tea Estate (dist Jalpaiguri), Munsong (dist Darjeeling) 8 Each; Majitar (dist Pakyong), Jiti T.e. (dist Jalpaiguri), Kurti T.e. (dist Jalpaiguri) 7 Each; **Nagaland, Manipur, Mizoram & Tripura**: Belonia (dist South Tripura) 15; Bagafa (dist South Tripura) 12; Kvk South (dist South Tripura) 10; Sabroom (dist South Tripura) 8; Jiribam AWS (dist Imphal East) 7; **Bihar**: Imamganj (dist Gaya) 13; Kauwakol (dist Nawada) 12; Dobhi (dist Gaya), Akbarpur (dist Nawada) 11 Each; Bankey Bazar (dist Gaya) 10; Gaya AP (dist Gaya), Bodh Gaya (dist Gaya), Gobindpur (dist Nawada) 9 Each; Amas (dist Gaya) 8; Sherghati (dist Gaya), Guraru (dist Gaya), Manpur (dist Gaya) 7 Each; **West Uttar Pradesh**: Shikohabad (dist Firozabad) 12; Jalesar (dist Etah) 10; Tilhar (dist Shahjahanpur), Jasrana (dist Firozabad) 9 Each; Karhal (dist Mainpuri) 8; **Saurashtra & Kutch**: Sutrapada (dist Gir Somnath) 10; Veraval (dist Gir Somnath), Kodinar (dist Gir Somnath) 7 Each; **West Madhya Pradesh**: Kathiwada (dist

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Alirajpur) 10; Porsa (dist Morena) 8; Alirajpur (dist Alirajpur) 7; **Andaman & Nicobar Islands:** Port Blair (dist South Andaman) 8; **East Rajasthan:** Bharatpur Tehsil SR (dist Bharatpur) 8; **Tamil Nadu, Puducherry & Karaikal:** Chinnakalar (dist Coimbatore) 7; **Kerala & Mahe:** Ponnani (dist Malappuram) 7.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Extremely heavy rain** at isolated places over Assam & Meghalaya, Gangetic West Bengal, Gujarat Region and Konkan & Goa. **Heavy to very heavy rain** at a few places over Konkan & Goa and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Bihar, West Uttar Pradesh, Gujarat Region, Madhya Maharashtra and Chhattisgarh. **Heavy rain** at isolated places over Andaman & Nicobar Islands, East Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

❖ **Minimum Temperature Departures (as on 19-06-2025):** **markedly above normal(> 5.1°C)** at few places over East Madhya Pradesh; at isolated places over Assam & Meghalaya, Bihar, East Uttar Pradesh, West Uttar Pradesh, Punjab, Himachal Pradesh, West Rajasthan and Saurashtra & Kutch. **appreciably above normal(3.1°C to 5.0°C)** at few places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Andaman & Nicobar Islands, Sub Himalayan West Bengal & Sikkim, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam. **above normal(1.6°C to 3.0°C)** at few places over Vidarbha and Lakshadweep; at isolated places over Gangetic West Bengal, Odisha, Uttarakhand, Haryana-Chandigarh-Delhi, East Rajasthan, Konkan & Goa, Chhattisgarh, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. **near normal(-1.5°C to 1.5°C)** at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka and Kerala & Mahe; at isolated places over Jharkhand. **The lowest minimum temperature** of 19.2°C was reported at NARSINGHPUR (MADHYA PRADESH), and MATHERAN (MAHARASHTRA) over the Plains of India.

❖ **Maximum Temperature Departures (as on 18-06-2025):** **markedly above normal(> 5.1°C)** at isolated places over Himachal Pradesh. **appreciably above normal(3.1°C to 5.0°C)** at most places over Arunachal Pradesh; at few places over Assam & Meghalaya and Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Odisha, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at few places over Nagaland, Manipur, Mizoram & Tripura, West Rajasthan and Coastal Karnataka; at isolated places over West Uttar Pradesh, Konkan & Goa, Vidarbha, Telangana and Rayalaseema. **near normal(-1.5°C to 1.5°C)** at many places over East Madhya Pradesh, Marathwada and Kerala & Mahe; at most places over Andaman & Nicobar Islands, Sub Himalayan West Bengal & Sikkim, Uttarakhand, North Interior Karnataka, South Interior Karnataka and Lakshadweep; at few places over Bihar, East Uttar Pradesh, Punjab, West Madhya Pradesh and Madhya Maharashtra; at isolated places over Haryana-Chandigarh-Delhi, Saurashtra & Kutch and Chhattisgarh. **The highest maximum temperature** of 43.1°C was reported at JAISALMER (RAJASTHAN).

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

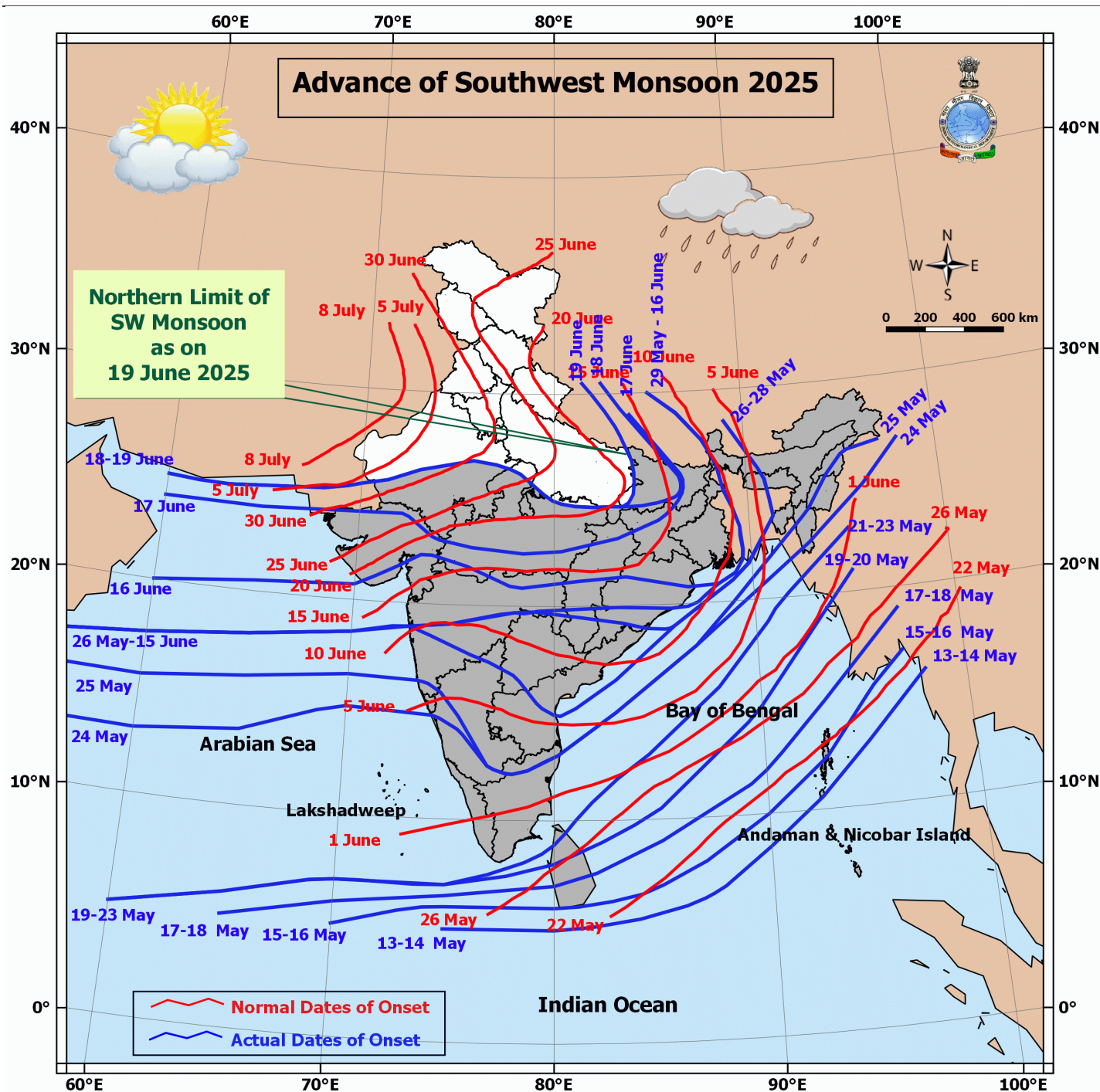
- Southwest monsoon further advanced over most parts of Bihar and some more parts of east Uttar Pradesh today, on 19<sup>th</sup> June 2025.
- The Northern Limit of Monsoon continue to pass through 25.0°N/60.0°E, 25.0°N/65.0°E, 25.5°N/70.0°E, Barmer, Jodhpur, Jaipur, Gwalior, Khajuraho, Sonbhadra, Ballia, 28.0°N/83.5°E and 30.5°N/81.5°E.
- Conditions are favourable for further advance of Southwest monsoon over remaining parts of North Arabian Sea, some more parts of Rajasthan, remaining parts of Madhya Pradesh, some more parts of Uttar Pradesh, some parts of Uttarakhand, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during next 2-3 days. Conditions are also becoming favorable for further advance of southwest monsoon over some parts of Punjab & Haryana during subsequent 2-3 days.
- The **well marked low pressure area** over northeast Jharkhand & adjoining Gangetic West Bengal persists over the same region at 0830 hrs IST of today, the 19<sup>th</sup> June 2025. The associated upper air cyclonic circulation extends upto 7.6 km above mean sea level tilting southwards with height. It is likely to move slowly northwestwards during next 24 hours.
- The upper air cyclonic circulation over Southwest Rajasthan extending upto 1.5 km above mean sea level persists.
- The upper air cyclonic circulation over northeast Rajasthan & neighbourhood extending upto 4.5 km above mean sea level persists.
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- **The trough** from northwest Uttar Pradesh to northeast Gujarat region now runs from northwest Uttar Pradesh to north Gujarat Region across the above cyclonic circulation over northeast Rajasthan & neighbourhood between 3.1 & 5.8 km above mean sea level.
- 
- An east-west **trough** runs from south Punjab to south Assam across the cyclonic circulation over northeast Rajasthan, north Madhya Pradesh and the cyclonic circulation associated with the well-marked low pressure area over Jharkhand & adjoining Gangetic West Bengal at 0.9 km above mean sea level.
- An off-shore **trough** at sea level chart runs from north Konkan coast to north Kerala coast.
- The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 76°E to the north of Lat. 30°N has been moved away northeast wards.

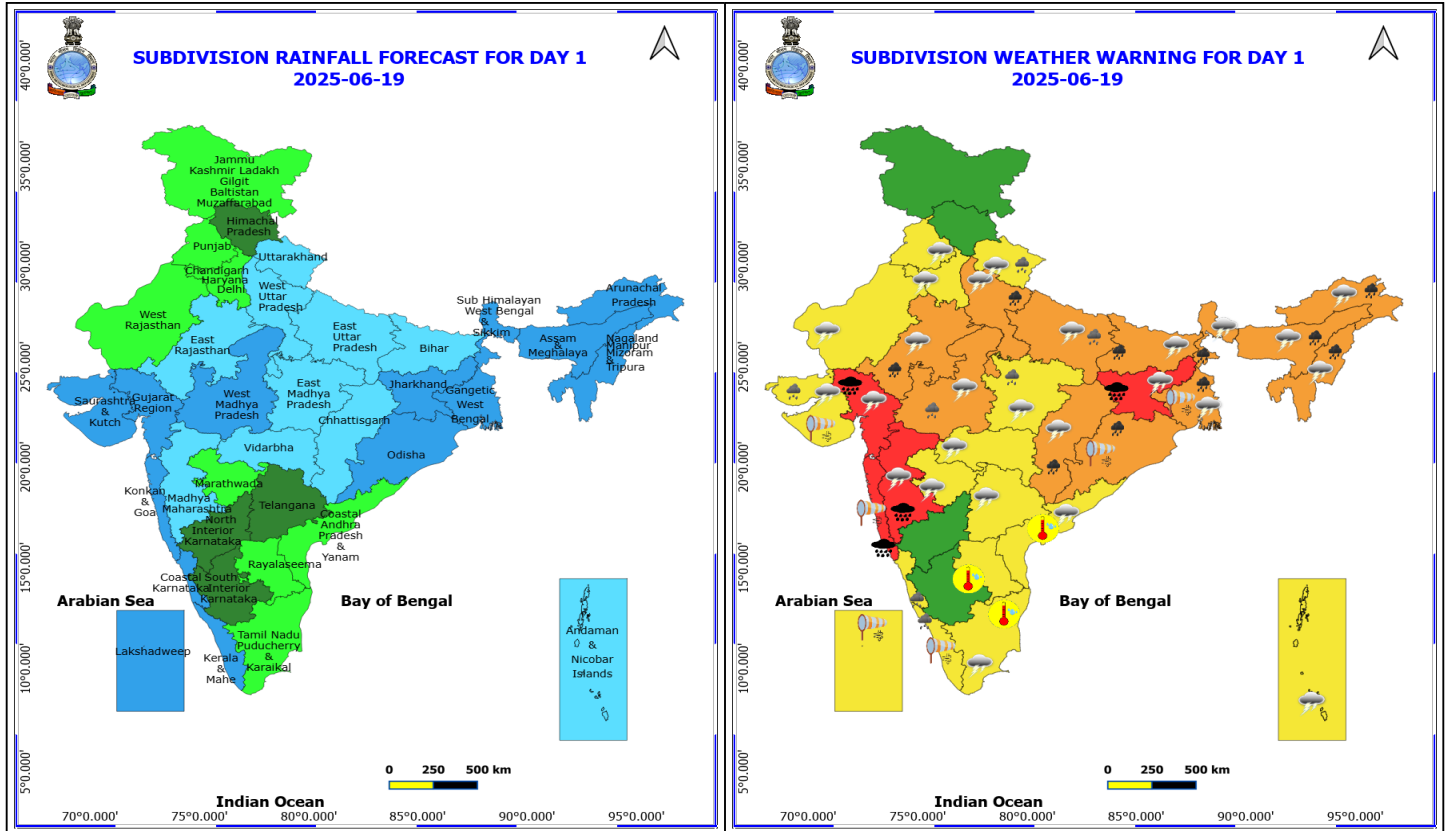
### Weather Outlook for subsequent 3 days

Fairly widespread to widespread rainfall activity likely over Northeast, East, Northwest, Central and West India, Coastal Andhra Pradesh, North Interior Karnataka, Coastal Karnataka, Kerala & Mahe;

Isolated to scattered rainfall likely over Tamil Nadu, Rayalaseema and South Interior Karnataka.







## 19 June (Day 1)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Gujarat Region, Jharkhand, Konkan & Goa and Madhya Maharashtra.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, East Rajasthan, Nagaland, Manipur, Mizoram and Tripura, Odisha, West Bengal & Sikkim and West Uttar Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Coastal Karnataka, East Uttar Pradesh, Kerala & Mahe, Madhya Pradesh, Saurashtra & Kutch and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands, Haryana, Chandigarh & Delhi, Madhya Pradesh, Punjab, Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Bihar, Jharkhand, Nagaland, Manipur, Mizoram and Tripura and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Chhattisgarh, Coastal Andhra Pradesh, Gujarat State, Maharashtra, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Strong Surface Winds** very likely at isolated places over Gangetic West Bengal, Kerala & Mahe, Konkan & Goa, Lakshadweep, Odisha and Saurashtra & Kutch.
- ❖ **Hot and Humid weather** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

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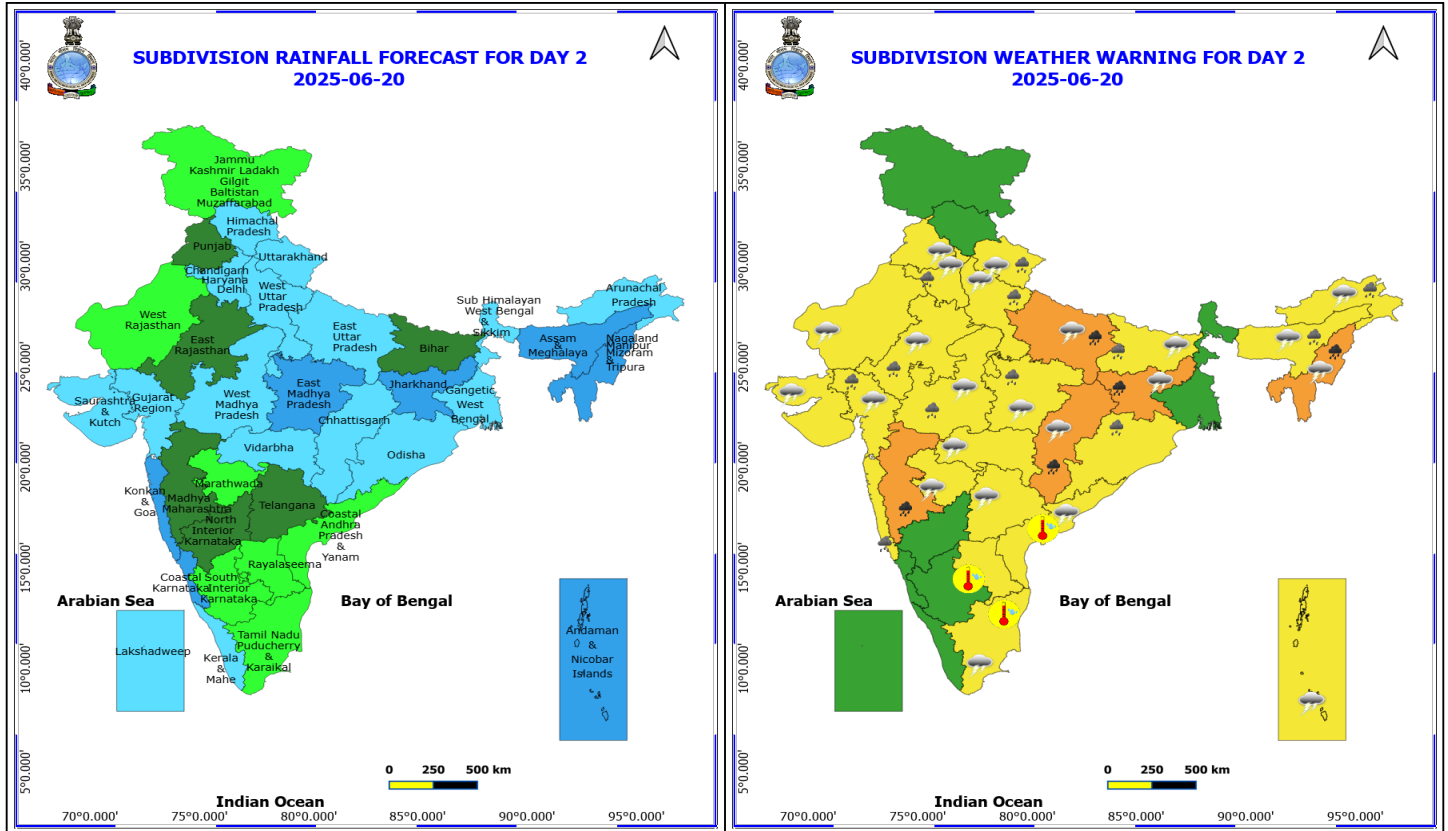
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- **Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia, Oman & adjoining Yemen coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral, North and southwest Arabian Sea.
- **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over eastcentral & adjoining areas of northeast Arabian Sea and along and off Gujarat, Maharashtra, Konkan, Goa, Karnataka coasts.
- **Squally weather with wind speed 35 - 45 kmph gusting to 55 kmph** is likely to prevail central and adjoining areas of north Bay of Bengal and along & off Bangladesh, West Bengal, Odisha and North Andhra Pradesh coasts.





## 20 June (Day 2)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Chhattisgarh, East Uttar Pradesh, Jharkhand, Madhya Maharashtra and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, East Rajasthan, Gujarat Region, Haryana, Chandigarh & Delhi, Konkan & Goa, Madhya Pradesh, Odisha, Uttarakhand and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands, Madhya Pradesh, Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Jharkhand, Nagaland, Manipur, Mizoram and Tripura and Punjab.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Chhattisgarh, Coastal Andhra Pradesh, Gujarat State, Marathwada, Tamil Nadu Puducherry & Karaikal, Telangana and Vidarbha.
- ❖ **Hot and Humid weather** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- **Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia, Oman & adjoining Yemen coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral, North and southwest Arabian Sea.
- **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over eastcentral & adjoining areas of northeast Arabian Sea and along and off Gujarat, Maharashtra, Konkan and Goa coasts.

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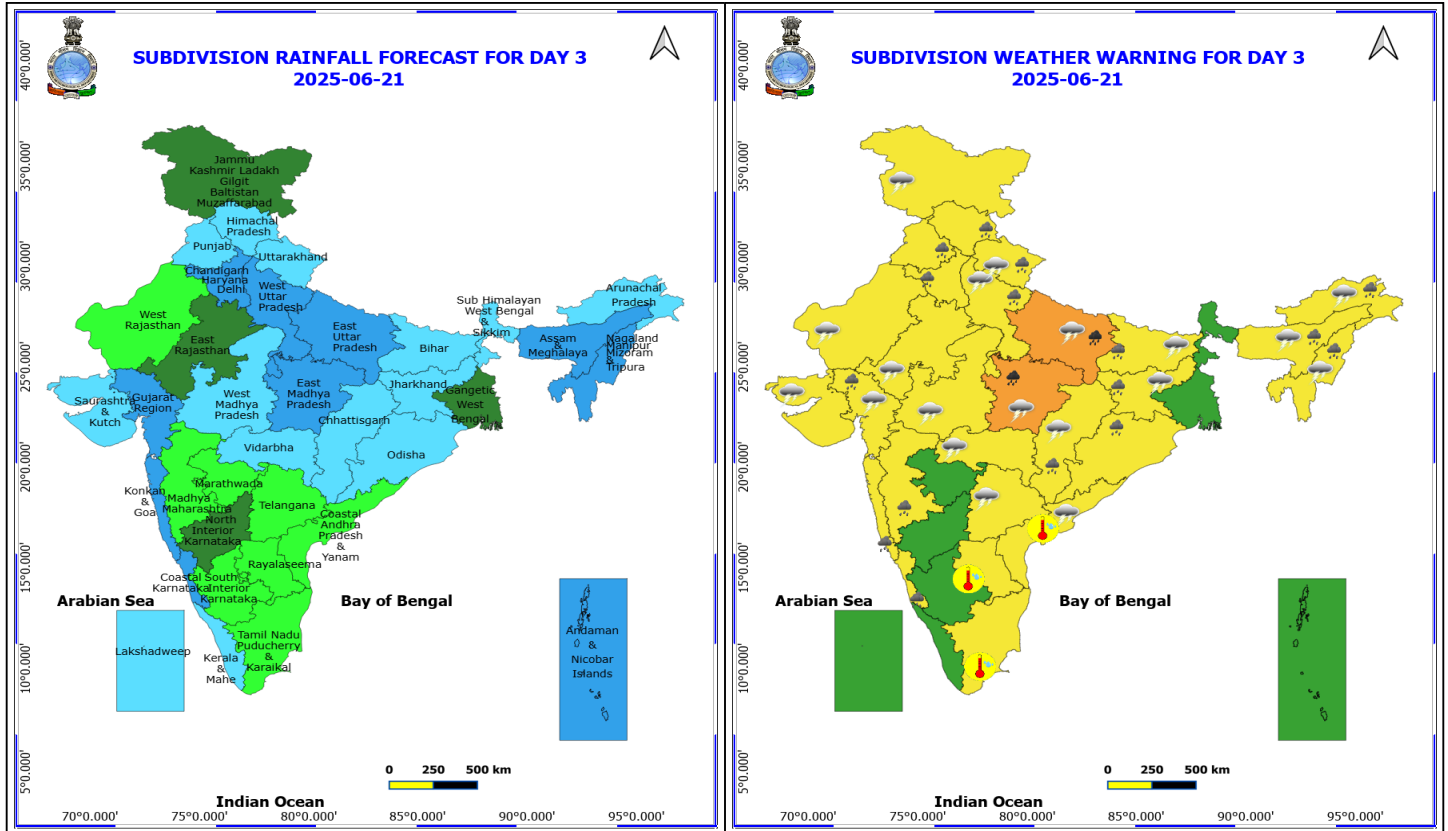
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- **Squally weather with wind speed 35 - 45 kmph gusting to 55 kmph** is likely to prevail westcentral and adjoining areas of northwest Bay of Bengal and along & off Odisha and North Andhra Pradesh coasts.



## 21 June (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over East Madhya Pradesh and East Uttar Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Coastal Karnataka, Gujarat Region, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jharkhand, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Uttarakhand and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh, East Madhya Pradesh, Gujarat State, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Telangana and Vidarbha.
- ❖ **Hot and Humid weather** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- **Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia, Oman & adjoining Yemen coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral, North and southwest Arabian Sea.
- **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over eastcentral & adjoining areas of northeast Arabian Sea and along and off Gujarat coasts.
- **Squally weather with wind speed 35 - 45 kmph gusting to 55 kmph** is likely to prevail westcentral and

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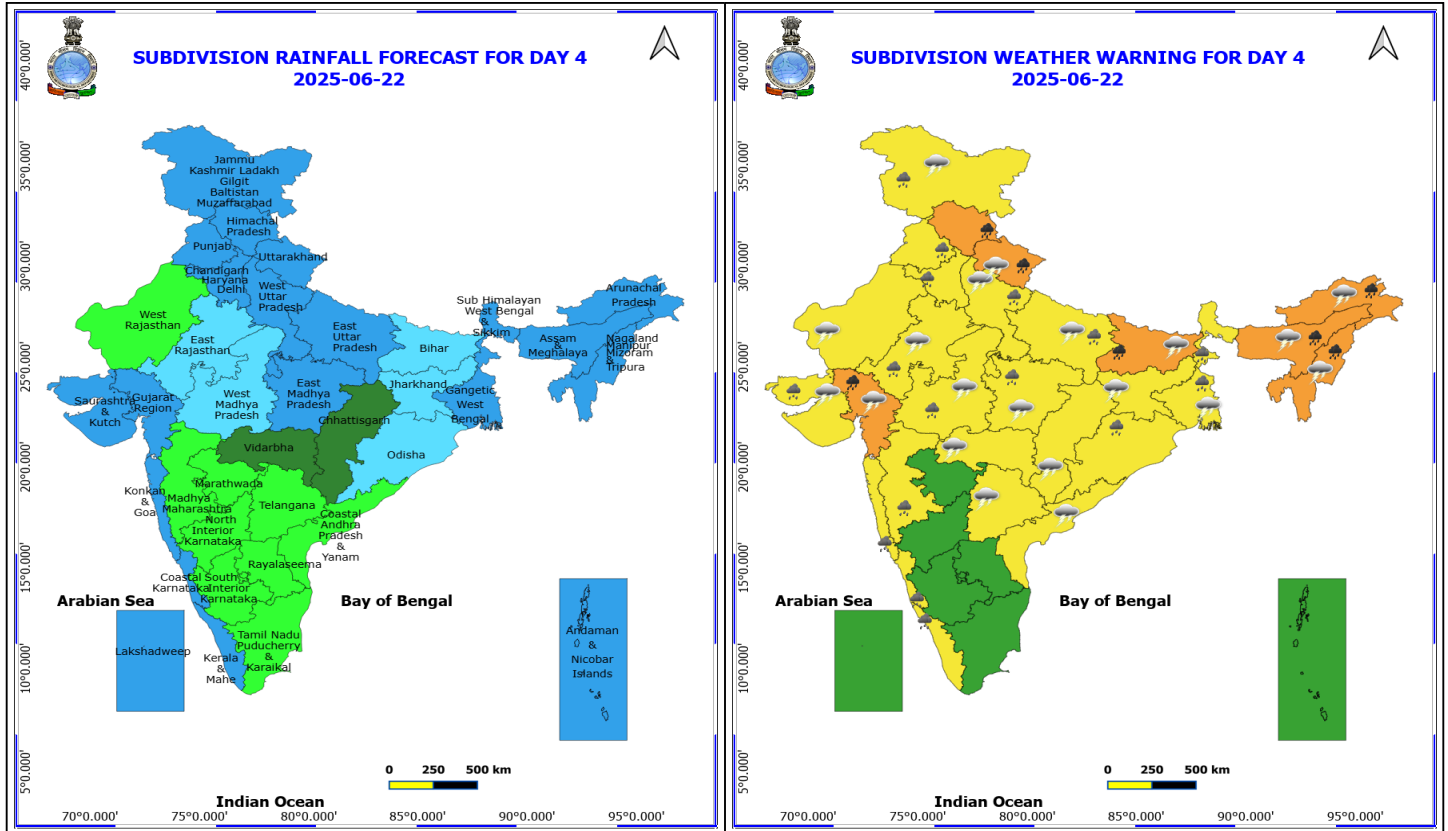
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adjoining areas of northwest Bay of Bengal and along & off North Andhra Pradesh coasts and Comorin Area & Gulf of Mannar.





## 22 June (Day 4)

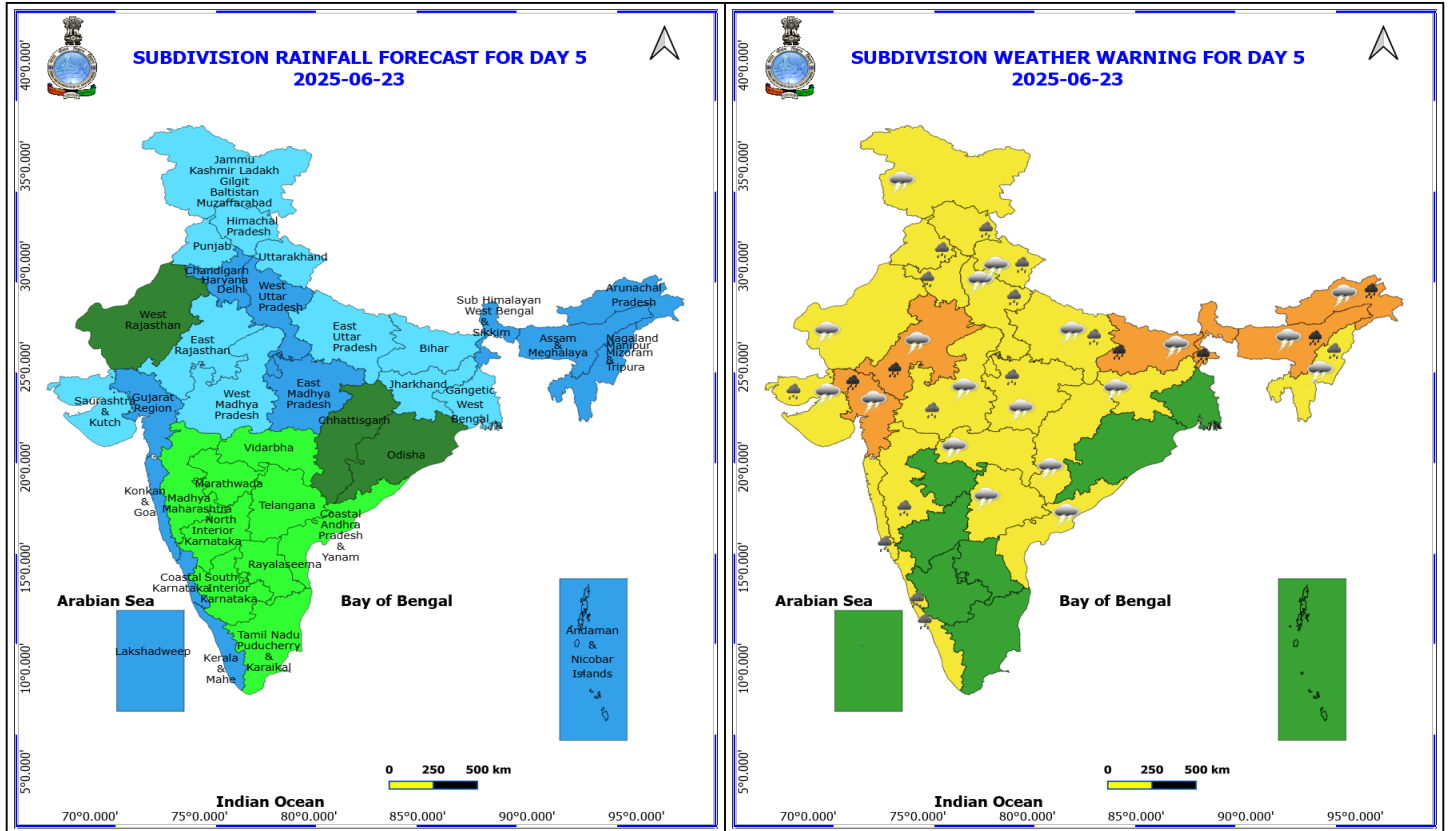
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Gujarat Region, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura and Uttarakhand.
- ❖ **Heavy Rainfall** likely at isolated places over Costal Karnataka, East Rajasthan, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Kerala & Mahe, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Odisha, Punjab, Saurashtra & Kutch, Uttar Pradesh and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Gangetic West Bengal, Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh, East Madhya Pradesh, Gujarat State, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Telangana and Vidarbha.
- **Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia, Oman & adjoining Yemen coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral, North and southwest Arabian Sea.
- **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over eastcentral & adjoining areas of northeast Arabian Sea and along and off North Gujarat coasts.
- **Squally weather with wind speed 35 - 45 kmph gusting to 55 kmph** is likely to prevail westcentral and southwest Bay of Bengal and Comorin Area & Gulf of Mannar

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## 23 June (Day 5)

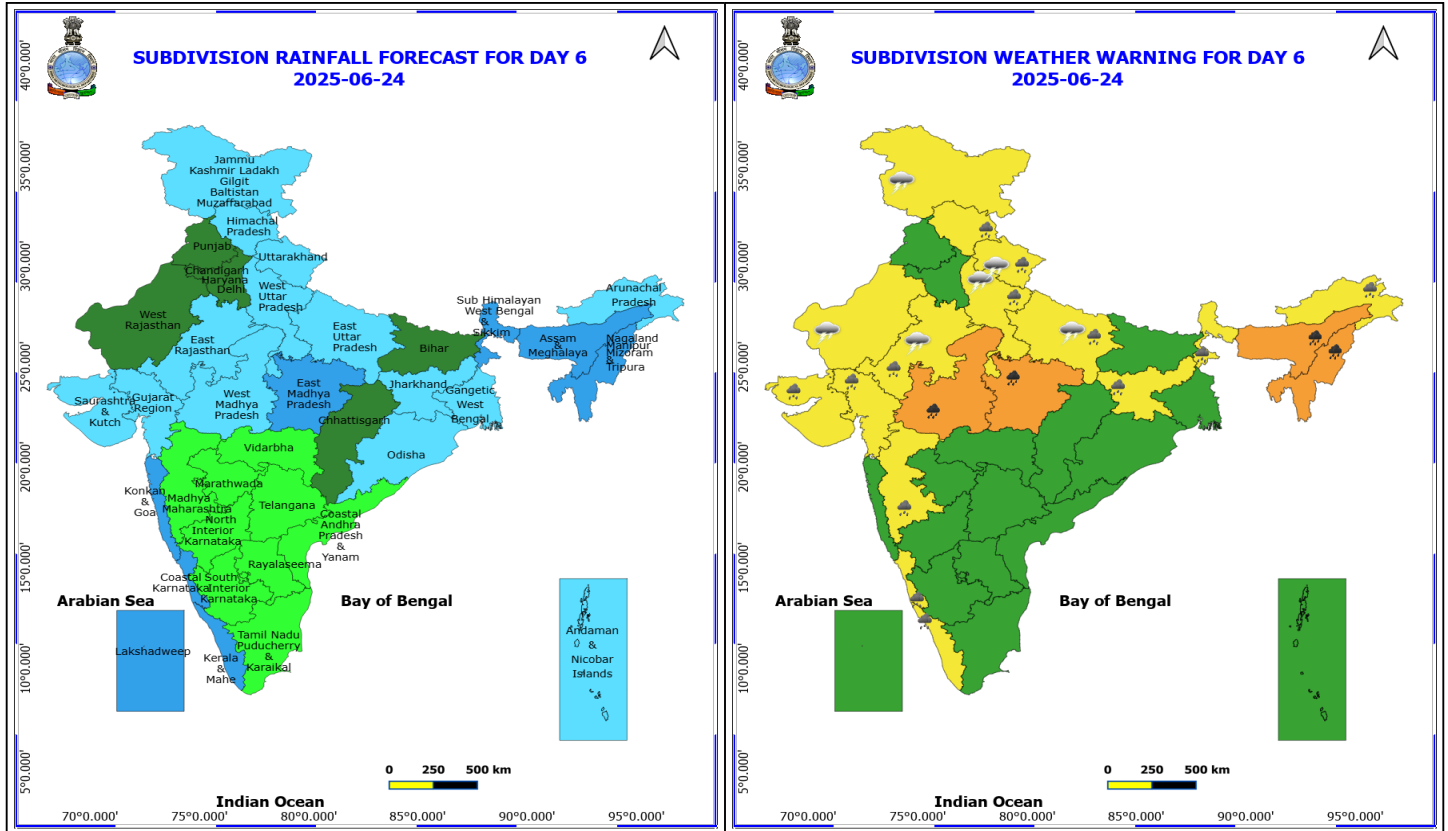
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, East Rajasthan, Gujarat Region and Sub Himalayan West Bengal & Sikkim.
- ❖ **Heavy Rainfall** likely at isolated places over Costal Karnataka, Haryana, Chandigarh & Delhi, Himachal Pradesh, Kerala & Mahe, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Punjab, Saurashtra & Kutch, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Rajasthan and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh, East Madhya Pradesh, Gujarat State, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Telangana, Uttar Pradesh and Vidarbha.
- **Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia, Oman & adjoining Yemen coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral, North and southwest Arabian Sea.
- **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over eastcentral & adjoining areas of northeast Arabian Sea and along and off North Gujarat coasts.
- **Squally weather with wind speed 35 - 45 kmph gusting to 55 kmph** is likely to prevail westcentral and southwest Bay of Bengal and Comorin Area & Gulf of Mannar.

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## 24 June (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Madhya Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Costal Karnataka, East Rajasthan, Gujarat State, Himachal Pradesh, Jharkhand, Kerala & Mahe, Madhya Maharashtra, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Rajasthan and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Uttar Pradesh.

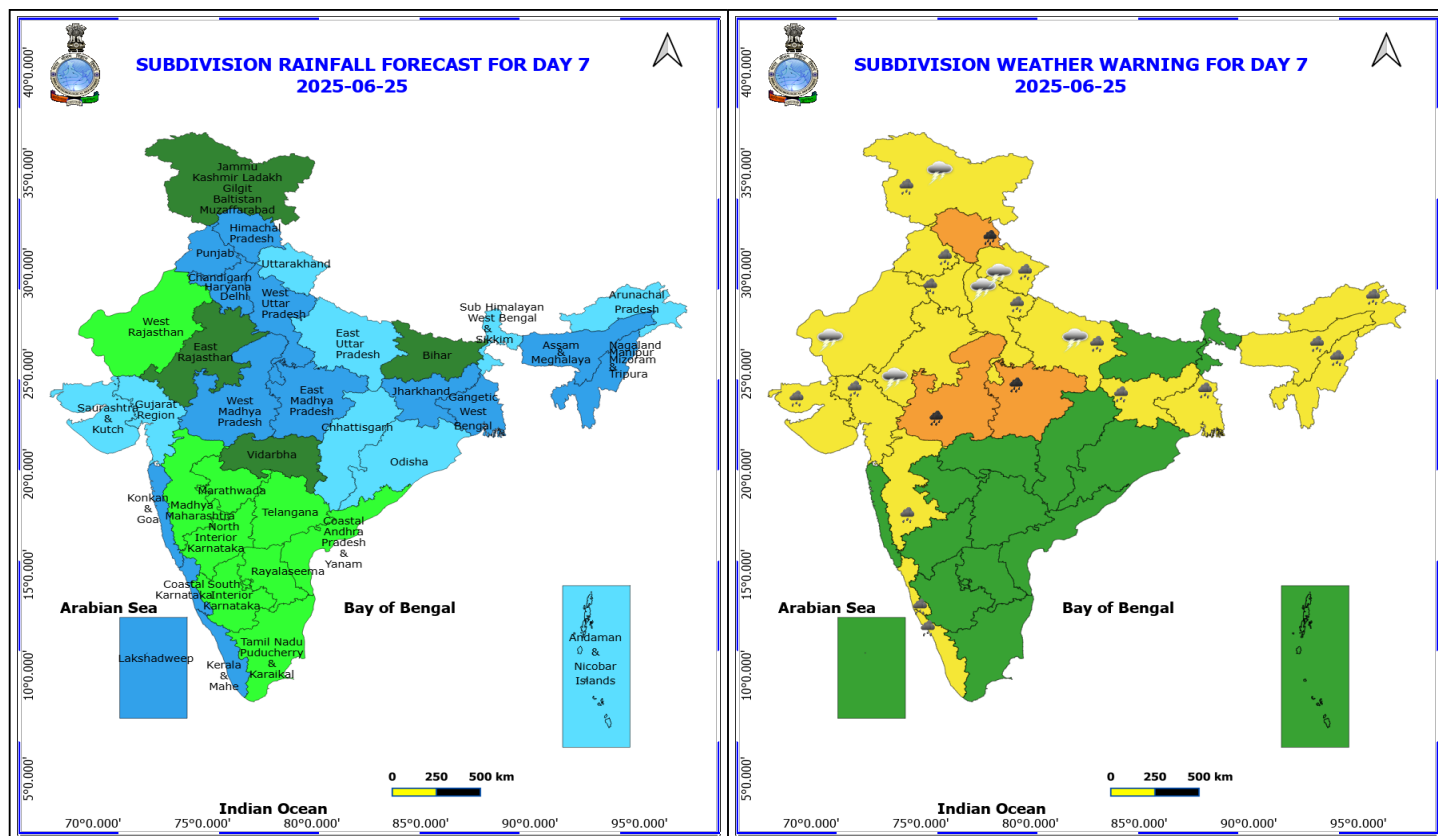
**No Fishermen Warning**

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## 25 June (Day 7)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Himachal Pradesh and Madhya Pradesh.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Karnataka, Gangetic West Bengal, Gujarat State, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Kerala & Mahe, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Rajasthan and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Uttar Pradesh.

**No Fishermen Warning**

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# Table-1

## 7 Days Rainfall Forecast

S.No.	Subdivision	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	WS	WS	FWS	FWS
2	ARUNACHAL PRADESH	WS	FWS	FWS	WS	WS	FWS	FWS
3	ASSAM & MEHGHALAYA	WS	WS	WS	WS	WS	WS	WS
4	N. M. M. & T.	WS	WS	WS	WS	WS	WS	WS
5	S.H. WEST BENGAL & SIKKIM	WS	FWS	FWS	WS	WS	WS	FWS
6	GANGETIC WEST BENGAL	WS	FWS	SCT	WS	FWS	FWS	WS
7	ODISHA	WS	FWS	FWS	FWS	SCT	FWS	FWS
8	JHARKHAND	WS	WS	FWS	FWS	FWS	FWS	WS
9	BIHAR	FWS	SCT	FWS	FWS	FWS	SCT	SCT
10	EAST UTTAR PRADESH	FWS	FWS	WS	WS	FWS	FWS	FWS
11	WEST UTTAR PRADESH	FWS	FWS	WS	WS	WS	FWS	WS
12	UTTARAKHAND	FWS	FWS	FWS	WS	FWS	FWS	FWS
13	HARYANA, CHD & DELHI	ISOL	FWS	WS	WS	WS	SCT	WS
14	PUNJAB	ISOL	SCT	FWS	WS	FWS	SCT	WS
15	HIMACHAL PRADESH	SCT	FWS	FWS	WS	FWS	FWS	WS
16	JAMMU AND KASHMIR AND LADAKH	ISOL	ISOL	SCT	WS	FWS	FWS	SCT
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	SCT	SCT	ISOL
18	EAST RAJASTHAN	FWS	SCT	SCT	FWS	FWS	FWS	SCT
19	WEST MADHYA PRADESH	WS	FWS	FWS	FWS	FWS	FWS	WS
20	EAST MADHYA PRADESH	FWS	WS	WS	WS	WS	WS	WS
21	GUJRAT REGION	WS	FWS	WS	WS	WS	FWS	FWS
22	SAURASHTRA & KUTCH	WS	FWS	FWS	WS	FWS	FWS	FWS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	FWS	FWS	FWS	SCT	ISOL	ISOL	SCT
27	CHATTISGARH	FWS	FWS	FWS	SCT	SCT	SCT	FWS
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	WS	FWS	FWS	WS	WS	WS	WS
36	LAKSHDWEEP	WS	FWS	FWS	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 2025-06-19

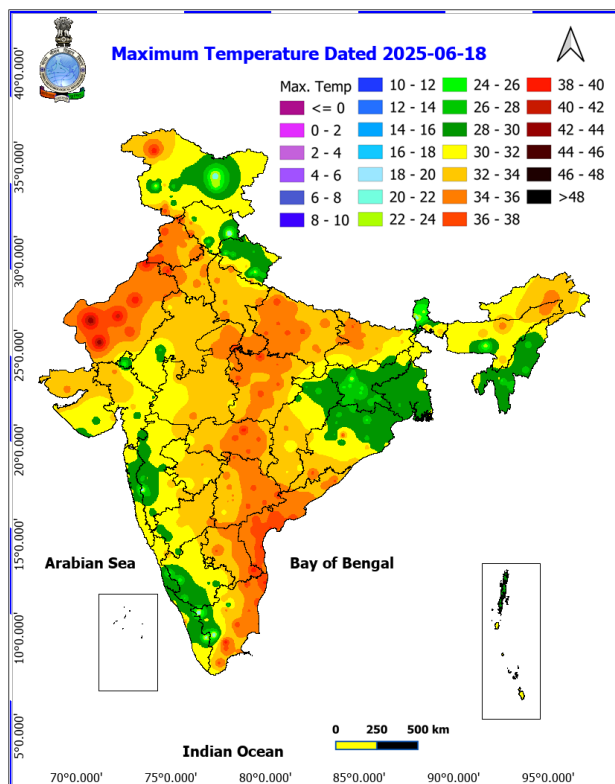


Fig. 2: Departure of Maximum Temp. Dated 2025-06-19

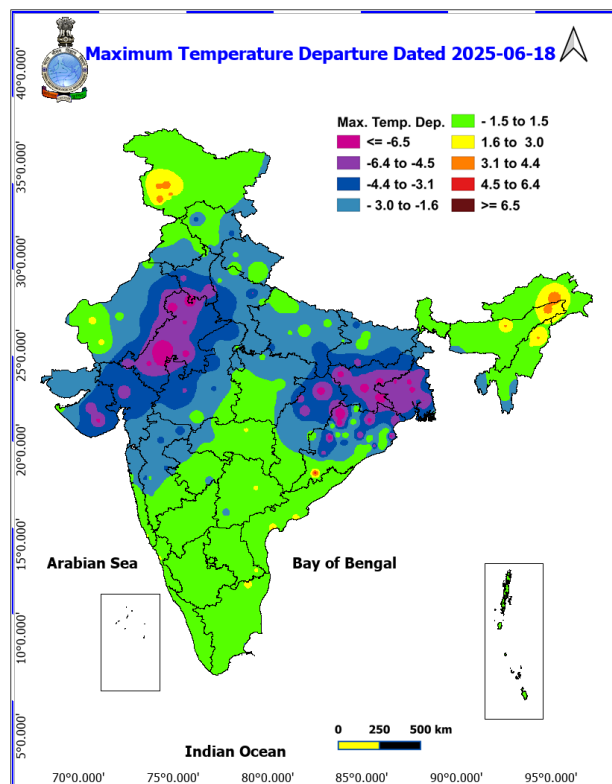


Fig. 3: Minimum Temperatures Dated 2025-06-19

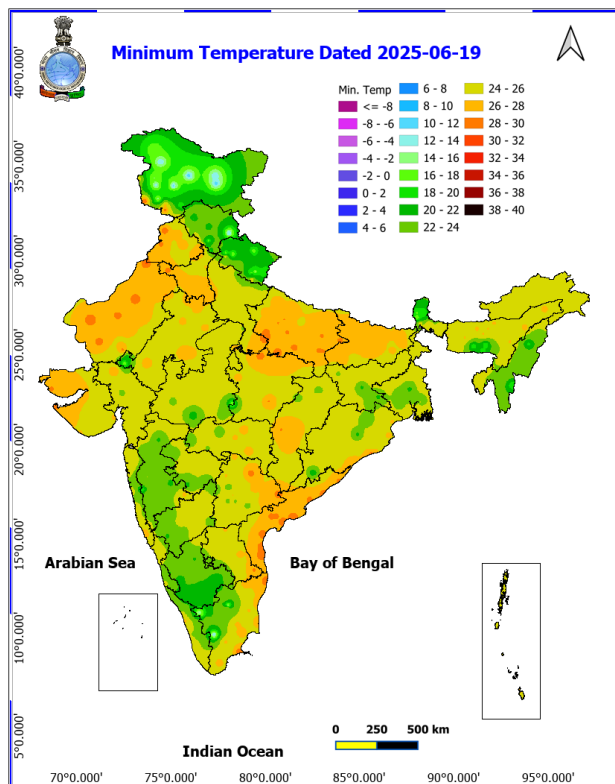
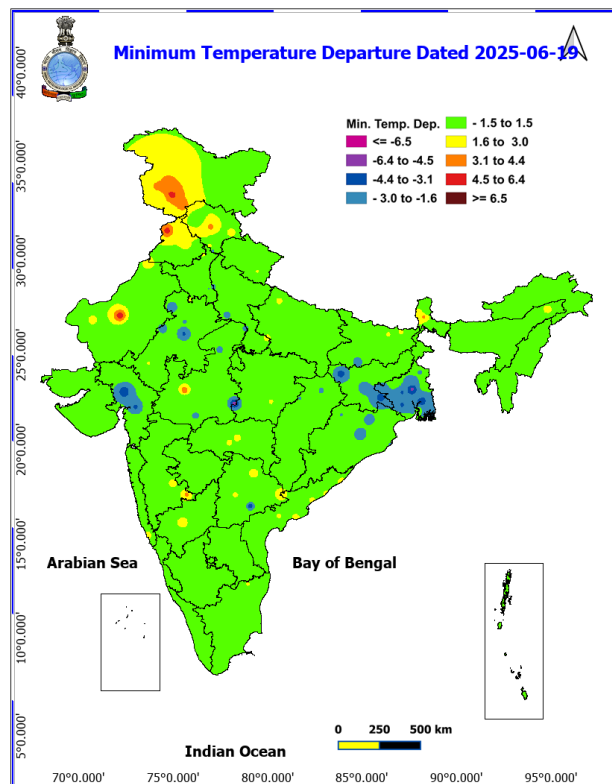
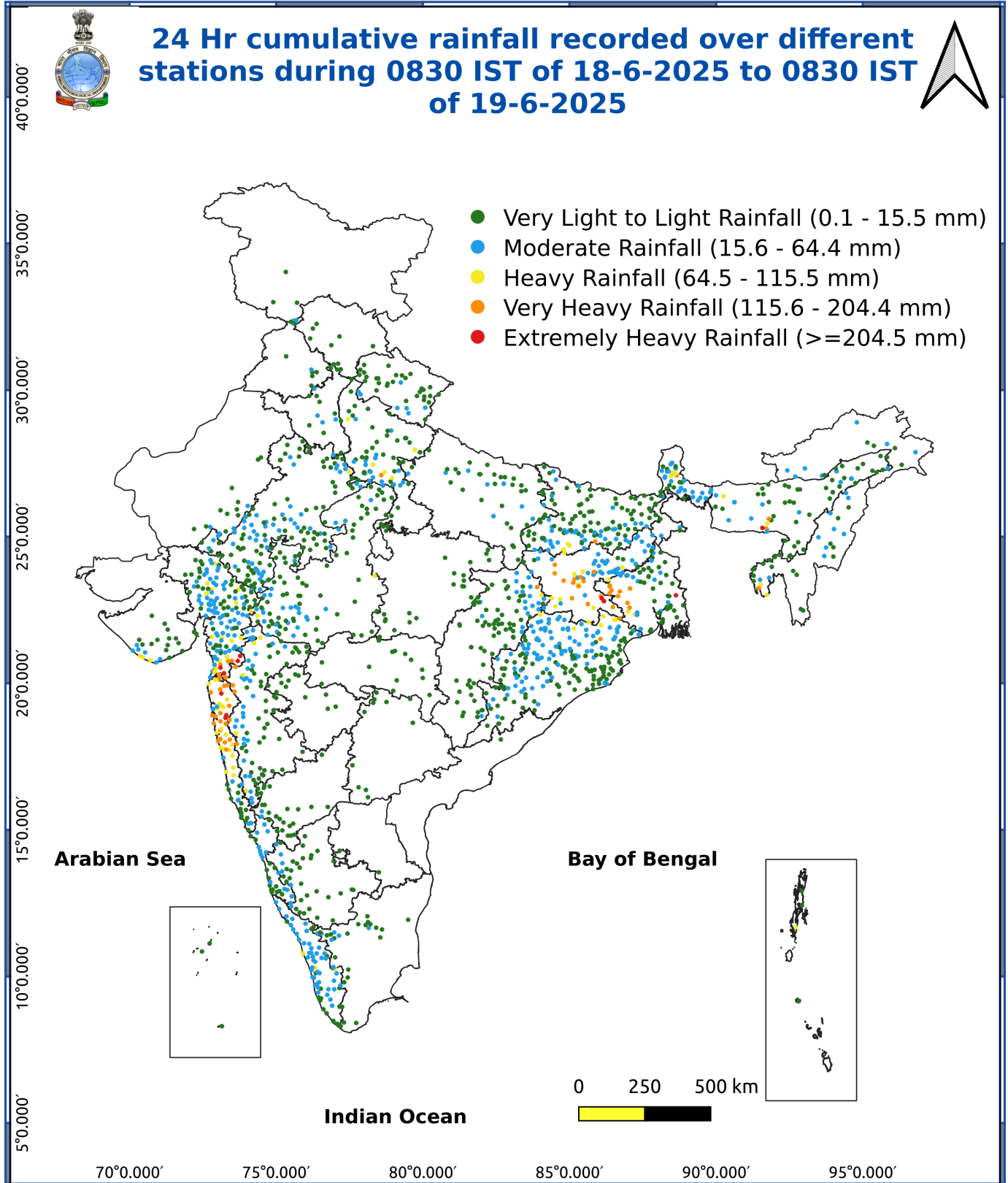


Fig. 4: Departure of Minimum Temp. Dated 2025-06-19





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#### Impact & Action Suggested due to extremely heavy falls/ very heavy rainfall:

- **Extremely heavy rainfall (>20 cm/24 hours)** likely at isolated places over Meghalaya, Gangetic West Bengal, Odisha on 18<sup>th</sup>, Jharkhand on 18<sup>th</sup> & 19<sup>th</sup> June.
- **Heavy to very heavy rainfall** likely to continue over Northeast India during 18<sup>th</sup>-24<sup>th</sup>; Konkan & Goa, Madhya Maharashtra, East Rajasthan on 18<sup>th</sup> & 19<sup>th</sup>, Gujarat State on 18<sup>th</sup>, Chhattisgarh during 18<sup>th</sup>-20<sup>th</sup>, Madhya Pradesh, Uttar Pradesh during 20<sup>th</sup> -22<sup>nd</sup>, Uttarakhand during 21<sup>st</sup>-23<sup>rd</sup> and Himachal Pradesh on 22<sup>nd</sup> & 23<sup>rd</sup> June.

#### 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 (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

- In **Gangetic West Bengal**, postpone nursery sowing of *kharif* rice. Ensure proper drainage in already sown rice nurseries, fields of sesame, jute and groundnut to prevent waterlogging. Cover the young seedlings of *kharif* rice with plastic sheets or agro-shade nets to protect them from heavy rains. Keep the harvested produce of *Boro* rice at safer place to protect harvested grains from heavy rains.
- In **Sub-Himalayan West Bengal**, maintain proper drainage channels in rice nurseries and fields of jute and ginger to avoid water stagnation.
- In **North Odisha**, postpone nursery sowing of rice and sowing of millets, maize, pulses and vegetables. Ensure proper drainage from already sown rice nurseries, fields of maize and vegetables to prevent waterlogging. Cover rice and vegetable nurseries with plastic sheets to prevent washing away of seeds.
- In **Jharkhand**, postpone sowing of rice nursery, maize and green gram. Make necessary arrangements to drain out excess water from already sown maize fields, rice and vegetable nurseries. Postpone harvesting of summer maize and keep the already harvested produce in safe place.
- In **South Gujarat**, postpone nursery sowing of rice. Ensure proper drainage facilities in already sown rice nurseries, sugarcane fields, banana and mango plantations to prevent waterlogging. Provide support to sugarcane and banana to prevent lodging.
- In **Saurashtra**, ensure proper drainage in vegetable fields. Keep the harvested summer crop / fodder in safe place.
- In **Rajasthan**, store the harvested green gram and vegetables in safe place.
- In **Konkan & Goa** and **ghat areas of Madhya Maharashtra**, make arrangement to drain out excess water from rice nurseries to prevent water logging.

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- In **North Chhattisgarh**, postpone nursery sowing of rice and ensure proper drainage in already sown rice nurseries.
- In **Bhabar and Tarai Zone** of **Uttarakhand**, ensure proper drainage in already sown crops of pigeon pea, millets and soybean.
- In **Assam**, keep the harvested produce of sesame, foxtail millet, *Boro* rice, banana and citrus at safer places. Ensure proper drainage in *Sali* rice nursery, maize and sugarcane fields, arecanut and coconut plantations to prevent water logging.
- In **Meghalaya**, postpone nursery sowing of rice especially in valleys. Ensure proper drainage in the fields of maize, ginger, French bean, cowpea, vegetables and around rice nurseries to prevent water logging. Provide strong bamboo stakes or trellis support to cow pea, cucumber and bottle gourd to prevent vines from trailing on wet ground. Provide support to banana plant to prevent lodging.
- In **Arunachal Pradesh**, keep the harvested produce of soybean and vegetables such as chilli and okra at a safer place. Ensure proper drainage in rice nurseries, kiwi and apple orchards to avoid water logging.
- In **Tripura**, use sandbags to protect seedbeds of *Aus* paddy from waterlogging. Provide support to banana, papaya and young fruit plants to prevent lodging.

#### 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.

## 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


 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)

\*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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