

2025-06-20

Time of Issue: 14:06:00 hours IST

(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### East & Central India:

- **Extremely heavy rainfall (>20 cm/24 hours) likely at isolated places over northwest Madhya Pradesh on 23<sup>rd</sup> June.**
- Isolated **heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim during 20<sup>th</sup>-22<sup>nd</sup>, Madhya Pradesh during 20<sup>th</sup>-25<sup>th</sup>; Chhattisgarh, Jharkhand on 20<sup>th</sup>, 21<sup>st</sup>, during 24<sup>th</sup>-26<sup>th</sup>; Bihar during 20<sup>th</sup>-24<sup>th</sup>; Andaman & Nicobar Islands on 21<sup>st</sup>; Gangetic West Bengal on 22<sup>nd</sup>-26<sup>th</sup>; Odisha during 24<sup>th</sup>-26<sup>th</sup> June with **very heavy rainfall** over West Madhya Pradesh during 20<sup>th</sup>-26<sup>th</sup>; East Madhya Pradesh during 21<sup>st</sup>-23<sup>rd</sup>; Chhattisgarh, Jharkhand on 20<sup>th</sup>; Bihar on 22<sup>nd</sup> & 23<sup>rd</sup> June.
- Light/moderate rainfall at most/many places accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Andaman & Nicobar Islands; Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha during 20<sup>th</sup>-26<sup>th</sup> June.

#### West India:

- Isolated **heavy rainfall** likely over Konkan & Goa, Madhya Maharashtra, Gujarat state during 20<sup>th</sup>-26<sup>th</sup> June with very heavy rainfall during 22<sup>nd</sup>-24<sup>th</sup> June.
- Light/moderate rainfall at most/many places likely over Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathwada during 20<sup>th</sup> -26<sup>th</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:

- Isolated **heavy rainfall** likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, West Uttar Pradesh, East Rajasthan during 20<sup>th</sup>-26<sup>th</sup>; Rajasthan, East Uttar Pradesh during 20<sup>th</sup>-24<sup>th</sup>; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 21<sup>st</sup>, 22<sup>nd</sup>, 25<sup>th</sup> & 26<sup>th</sup> with **very heavy rainfall** over East Uttar Pradesh during 20<sup>th</sup>-22<sup>nd</sup>; East Rajasthan on 20<sup>th</sup> & 23<sup>rd</sup>, south Haryana, West Uttar Pradesh on 22<sup>nd</sup>, Himachal Pradesh, Uttarakhand during 22<sup>nd</sup>-26<sup>th</sup> June.
- Light/moderate rainfall at most/many places accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Northwest India during 20<sup>th</sup>-26<sup>th</sup> June.

#### South Peninsular India:

- Isolated **heavy rainfall** likely over Kerala & Mahe during 22<sup>nd</sup>-26<sup>th</sup>; Coastal Karnataka on 20<sup>th</sup> and during 22<sup>nd</sup>-26<sup>th</sup>; North Interior Karnataka on 20<sup>th</sup>, during 23<sup>rd</sup>-26<sup>th</sup>; South Interior Karnataka during 23<sup>rd</sup>-26<sup>th</sup> June.
- **Strong surface winds** (speed reaching 40-60 kmph) very likely over Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema during 20<sup>th</sup> -24<sup>th</sup> June.
- Light/moderate rainfall at many/some places over Kerala & Mahe, Lakshadweep, Coastal Karnataka; isolated to scattered rainfall accompanied with isolated **thunderstorm, lightning** over Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka during 20<sup>th</sup>-26<sup>th</sup> June.

#### Maximum Temperature Forecast:

- No significant change in maximum temperatures likely over rest parts of the country.

#### Hot & Humid Conditions warnings:

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- **Hot & Humid conditions** very likely in isolated pockets of Tamil Nadu during 20<sup>th</sup>-22<sup>nd</sup>; Coastal Andhra Pradesh & Yanam, Rayalaseema on 20<sup>th</sup> & 21<sup>st</sup> June.
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### Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, East Uttar Pradesh, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Coastal Karnataka and Kerala & Mahe; **at many places** over Assam & Meghalaya, Odisha, Uttarakhand, East Rajasthan, East Madhya Pradesh, Gujarat Region, Chhattisgarh and Lakshadweep; **at a few places** over West Uttar Pradesh, Himachal Pradesh, Marathwada and North Interior Karnataka; **at isolated places** over Haryana-Chandigarh-Delhi, Punjab, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and South 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): **Gangetic West Bengal:** Purulia (dist Purulia) 21; Simula (dist Purulia) 12; **Jharkhand:** Mandar (dist Ranchi) 21; Bano Simdega Kvk AWS (dist Simdega) 18; Bariyatu (dist Latehar) 17; Ramgarh (dist Ramgarh) 16; Ramgarh(bdo) (dist Ramgarh) 14; Simdega (dist Simdega), Gola (dist Ramgarh) 13 Each; Mandu (dist Ramgarh), Patratu (dist Ramgarh) 12 Each; Gumla (dist Gumla), Bau Kanke (dist Ranchi), Anandpur (dist West Singhbhum) 11 Each; Raidih (dist Gumla), Hendigir (dist Hazaribag), Khalari (dist Ranchi) 10 Each; Palkot (dist Gumla), Gobindpur Dvc (dist Dhanbad), Ramgarh Dvc (dist Ramgarh), Lesliganj (dist Palamu), Mandu Dvc (dist Ramgarh) 9 Each; Kurdeg (dist Simdega), Kalebira (dist Simdega), Kuru (dist Lohardaga), Ranchi AP (dist Ranchi), Ramgarh Kvk AWS (dist Ramgarh), Gudri (dist West Singhbhum), Manoharpur (dist West Singhbhum), Potka (dist East Singhbhum) 8 Each; Chaibasa (dist West Singhbhum), Hariharganj (dist Palamu), Ormanjhi (dist Ranchi), Icar Namkum (dist Ranchi), Barkagaon (dist Hazaribag), Dumri Dvc (dist Giridih), Goilkeria (dist West Singhbhum), Boram (dist East Singhbhum), Herhanj (dist Latehar) 7 Each; Putki (dist Dhanbad), Jamshedpur (dist East Singhbhum), Manjhari (dist West Singhbhum), Rania (dist Khunti) 6 Each; **Madhya Maharashtra:** Mahabaleshwar (dist Satara), Harsul - Fmo (dist Nashik) 21 Each; Lonavala ARG (dist Pune) 17; Igatpuri (dist Nashik) 13; Ozarkheda - Fmo (dist Nashik) 12; Vadgaon Maval (dist Pune), Velhe (dist Pune), Trimbakshwar (dist Nashik) 11 Each; Radhanagari (dist Kolhapur) 10; Ajra (dist Kolhapur) 8; Paud Mulshi (dist Pune) 7; Ambegaon Ghodegaon (dist Pune), Khed Rajgurunagar (dist Pune), Nashik (dist Nashik) 6 Each; **Gujarat Region:** Daman (dist Daman) 18; Daman AWS (dist Daman) 16; Madhbun (dist Dadara & Nagar Haveli) 15; Vapi (dist Valsad), Daman Fmo (dist Daman) 14 Each; Silvassa (dist Dadara & Nagar Haveli) 13; Pardi (dist Valsad) 12; Umernagar (dist Valsad), Kaprada (dist Valsad) 10 Each; Khergam (dist Navsari) 9; Waghai (dist Dangs), Khanvel (dist Dadara & Nagar Haveli) 8 Each; Dharampur (dist Valsad) 7; Nanipalson (dist Valsad), Valsad (dist Valsad), Dang Kvk AWS (dist Dangs) 6 Each; **Chhattisgarh:** Kunkuri (dist Jashpur) 16; Kusmi (dist Balrampur) 15; Samari (dist Balrampur) 12; Bagicha (dist Jashpur) 10; Manora (dist Jashpur) 9; Jashpurnagar (dist Jashpur), Sanna (dist Jashpur) 8 Each; Mukdega (dist Raigarh) 7; Duldula (dist Jashpur), Kansabel (dist Jashpur), Lailunga (dist Raigarh) 6 Each; **Konkan & Goa:** Mokhedra - Fmo (dist Palghar), Jawhar (dist Palghar), Poladpur (dist Raigad) 15 Each; Mandangad (dist Ratnagiri) 13; Khed (dist Ratnagiri) 11; Sudhagad Pali (dist Raigad), Wada (dist Palghar) 10 Each; Murbad (dist Thane), Roha (dist Raigad), Mahad (dist Raigad), Mhasla (dist Raigad), Dapoli ARG (dist Ratnagiri), Wakwali ARG (dist Ratnagiri) 9 Each; Mangaon (dist Raigad), Khalapur (dist Raigad) 8 Each; Shahapur (dist Thane), Shriwardhan (dist Raigad), Talasari (dist Palghar), Vikramgad (dist Palghar), Savarde-arg (dist Ratnagiri), Lanja (dist Ratnagiri) 7 Each; Harnai IMD (dist Ratnagiri), Tala (dist Raigad), Kankavli (dist Sindhudurg) 6 Each; **Arunachal Pradesh:** Mukto ARG (dist Tawang) 12; **East Uttar Pradesh:** Kakardharighat (dist Shrawasti) 12; Bara (dist Prayagraj), Shardanagar (dist Kheri) 11 Each; Fatehpur Tehsil (dist Barabanki) 10; Lucknow (Cr) (dist Lucknow), Kheri Lakhimpur (dist Kheri) 9 Each; Safipur (dist Unnao) 8; Lucknow (hs) (dist Lucknow), Bhatpurwaghat (dist Sitapur), Neemsar (dist Sitapur), Bighapur (dist Unnao) 7 Each; Sidhauli (dist Sitapur), Prayagraj PBO (dist Prayagraj), Bahraich (dist Bahraich), Gonda CWC (dist Gonda), Kanpur IAF (dist Kanpur City), Malihabad (dist Lucknow), Unnao Tehsil (dist Unnao) 6 Each; **East Rajasthan:** Banswara SR (dist Banswara), Shahpura (dist Bhilwara), Bijoliya SR (dist Bhilwara), Danpur (dist Banswara), Ramganjmandi SR (dist Kota) 11 Each; Nimbahera (dist Chittorgarh) 10; Todabhim (dist Karauli), Kesarpura SR (dist Banswara), Nainwa (dist Bundi), Shahabad (dist Baran) 9 Each; Bhungra SR (dist Banswara), Bari (dist Dholpur), Khushalgarh (dist Banswara), Hindaun (dist Karauli), Jhalarapatan SR (dist Jhalawar) 8 Each; Sangod (dist Kota) 7; Malpura (dist Tonk), Gangapur (dist Sawai Madhopur), Arnod SR (dist Pratapgarh) 6 Each; **West Uttar Pradesh:** Maudaha (dist Hamirpur) 9; Khairagarh (dist Agra) 6; **Assam & Meghalaya:** Mawsynram (dist East Khasi Hills) 9; Udaipur (dist Tinsukia) 8; Cherrapunji(rkm) (dist East Khasi Hills) 6; **West Madhya Pradesh:** Mandsaur-aws (dist Mandsaur), Sailana (dist Ratlam), Khalwa (dist Khandwa) 8 Each; Biaora (dist Rajgarh), Piploda (dist Ratlam), Pohri (dist Shivpuri), Sanjeet (dist Mandsaur), Bhavgarh (dist Mandsaur), Umarvan (dist Dhar) 7 Each; Chanderi (dist Ashoknagar), Narmadapuram (dist Narmadapuram), Jawad (dist Neemuch), Budhni (dist Sehore), Meghnagar (dist

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Jhabua), Gormi (dist Bhind) 6 Each; **East Madhya Pradesh:** Ajaigarh (dist Panna), Hanumana (dist Rewa) 8 Each; Singrauli-aws (dist Singrauli), Naigarhi (dist Rewa) 7 Each; Mehadwani (dist Dindori), Bijadandi (dist Mandla), Badamalhera (dist Chhatarpur) 6 Each; **Himachal Pradesh:** Nahan (dist Sirmaur) 8; **Odisha:** Nawana (dist Mayurbhanj), Tangarpali (dist Sundargarh) 8 Each; Bamra (dist Sambalpur) 7; Sundargarh (dist Sundargarh), Gurundia (dist Sundargarh), Tiring (dist Mayurbhanj), Bahalda (dist Mayurbhanj), Lephripara (dist Sundargarh), Kutra (dist Sundargarh) 6 Each.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Extremely heavy rain** at isolated places over Gangetic West Bengal, Jharkhand and Madhya Maharashtra. **Heavy to very heavy rain** at isolated places over Arunachal Pradesh, Gangetic West Bengal, Jharkhand, East Uttar Pradesh, Gujarat Region, Konkan & Goa, Madhya Maharashtra and Chhattisgarh. **Heavy rain** at isolated places over Assam & Meghalaya, Odisha, West Uttar Pradesh, Himachal Pradesh, East Rajasthan, West Madhya Pradesh and East Madhya Pradesh.

❖ **Minimum Temperature Departures (as on 20-06-2025): markedly above normal(> 5.1°C)** at few places over Himachal Pradesh and Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Assam & Meghalaya, Bihar, East Uttar Pradesh, West Uttar Pradesh, East Madhya Pradesh and Saurashtra & Kutch. **appreciably above normal(3.1°C to 5.0°C)** at few places over Gujarat Region; at isolated places over Sub Himalayan West Bengal & Sikkim, Odisha, Punjab, West Rajasthan, West Madhya Pradesh and Coastal Andhra Pradesh & Yanam. **above normal(1.6°C to 3.0°C)** at few places over Haryana-Chandigarh-Delhi, Coastal Karnataka and Lakshadweep; at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Uttarakhand, Konkan & Goa, Madhya Maharashtra, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Chhattisgarh; at most places over Arunachal Pradesh, Marathwada, Vidarbha, South Interior Karnataka and Kerala & Mahe; at few places over Jharkhand and East Rajasthan. **The lowest minimum temperature** of 17.4°C is reported at NARSINGHPUR (MADHYA PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 19-06-2025): markedly above normal(> 5.1°C)** at few places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad. **appreciably above normal(3.1°C to 5.0°C)** at isolated places over Odisha, Himachal Pradesh, West Rajasthan, East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at few places over Coastal Karnataka; at isolated places over Assam & Meghalaya, East Uttar Pradesh, Konkan & Goa and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Nagaland, Manipur, Mizoram & Tripura and Uttarakhand; at most places over Punjab, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka, South Interior Karnataka and Lakshadweep; at few places over Andaman & Nicobar Islands, Arunachal Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi and Saurashtra & Kutch; at isolated places over Gangetic West Bengal and Madhya Maharashtra. **The highest maximum temperature** of 44.6°C was reported at JAISALMER (RAJASTHAN).

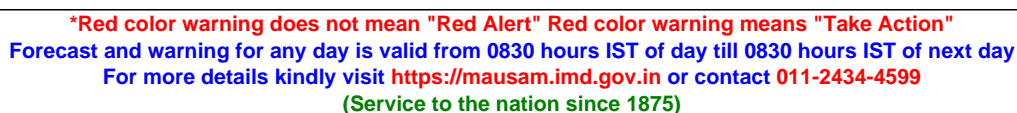
### Meteorological Analysis (Based on 0830 hours IST)

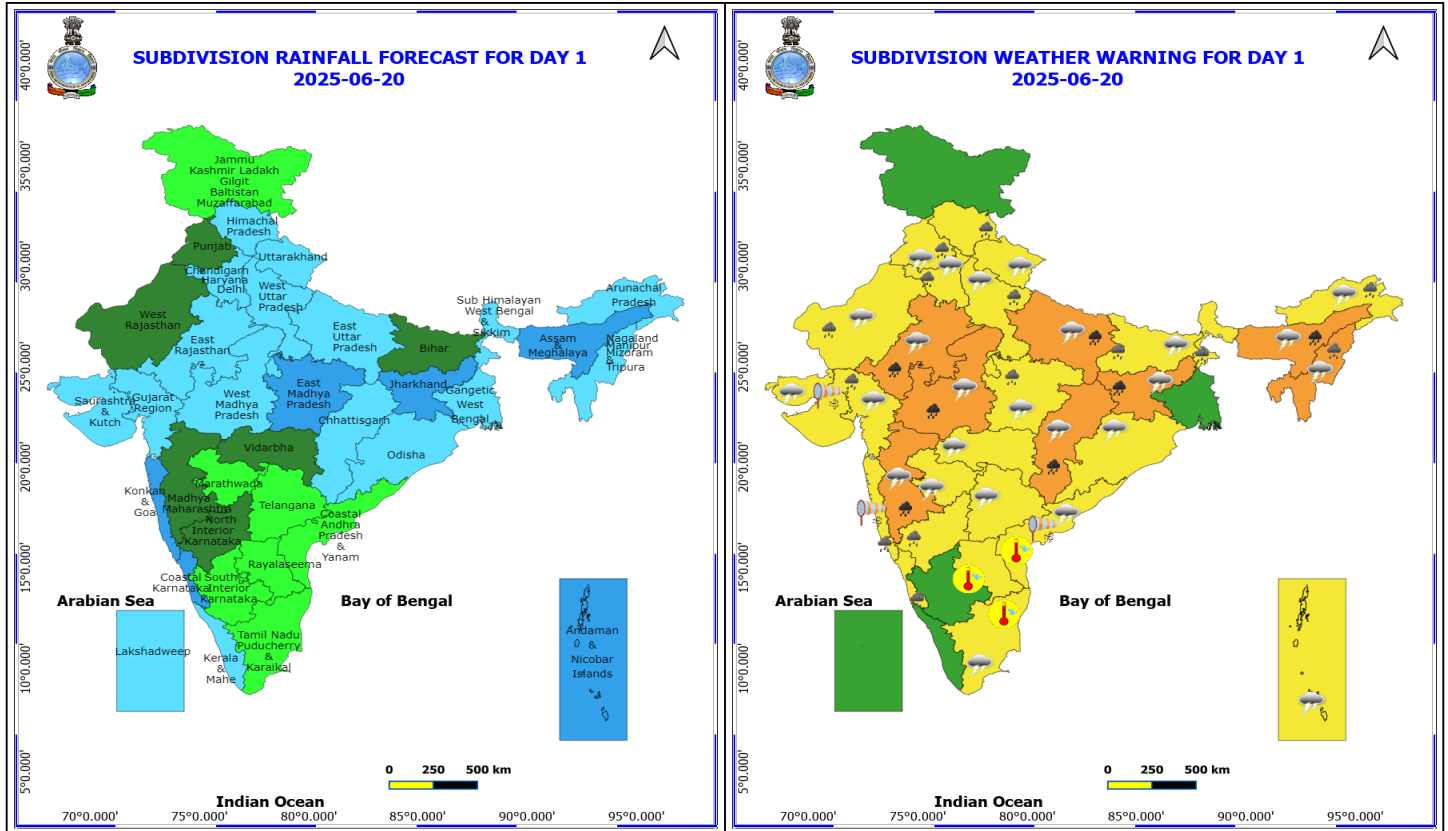
- Southwest monsoon has further advanced into remaining parts of Bihar & East Uttar Pradesh and Madhya Pradesh, some parts of West Uttar Pradesh, most parts of Uttarakhand, many parts of Himachal Pradesh and some parts of Ladakh.
- The Northern Limit of Monsoon now passes through 25.0°N/60.0°E, 25.0°N/65.0°E, 25.5°N/70.0°E, Jaipur, Agra, Rampur, Dehradun, Shimla, Manali and 33.5°N/79.0°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 West Uttar Pradesh, Uttarakhand, Himachal Pradesh and some parts of Jammu & Kashmir-Gilgit-Baltistan-Muzaffarabad, some more parts of Ladakh during next 2 days. Conditions are also becoming favorable for further advance of southwest monsoon over remaining parts of Jammu & Kashmir, Ladakh, some parts of Punjab & Haryana and Chandigarh & Delhi during subsequent 2 days.
- The well marked low pressure area over northeast Jharkhand & neighbourhood weakened into a **low pressure area** and lay over south Bihar & neighbourhood at 0830 hrs IST of today, the 20<sup>th</sup> June 2025. The associated upper air cyclonic circulation extended upto 7.6 km above mean sea level tilting southwards with height. It is likely to move slowly northwestwards and weakened gradually during next 24 hours.
- The **upper air cyclonic circulation** over northeast Rajasthan & neighbourhood persists and now extends upto 5.8 km above mean sea level.
- The **trough** from northwest Uttar Pradesh to north Gujarat Region across the above cyclonic circulation over northeast Rajasthan & neighbourhood at 3.1 km above mean sea level persists.
- The **east-west trough** now runs from northwest Rajasthan to Meghalaya across the cyclonic circulation over northeast Rajasthan & neighbourhood, south Uttar Pradesh and the cyclonic circulation associated with the low-pressure area over south Bihar & neighbourhood and Gangetic West Bengal between 0.9 & 1.5 km above mean sea level.
- The off-shore **trough** at sea level from north Konkan coast to north Kerala coast has become less marked.

### Weather Outlook for subsequent 3 days

- ❖ Scattered to fairly widespread rainfall very likely over central India, ghat area of western coast, north east India & northwest India.
- ❖ Isolated to scattered rainfall very likely over the south peninsula India, eastern India & western India.







## 20 June (Day 1)

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

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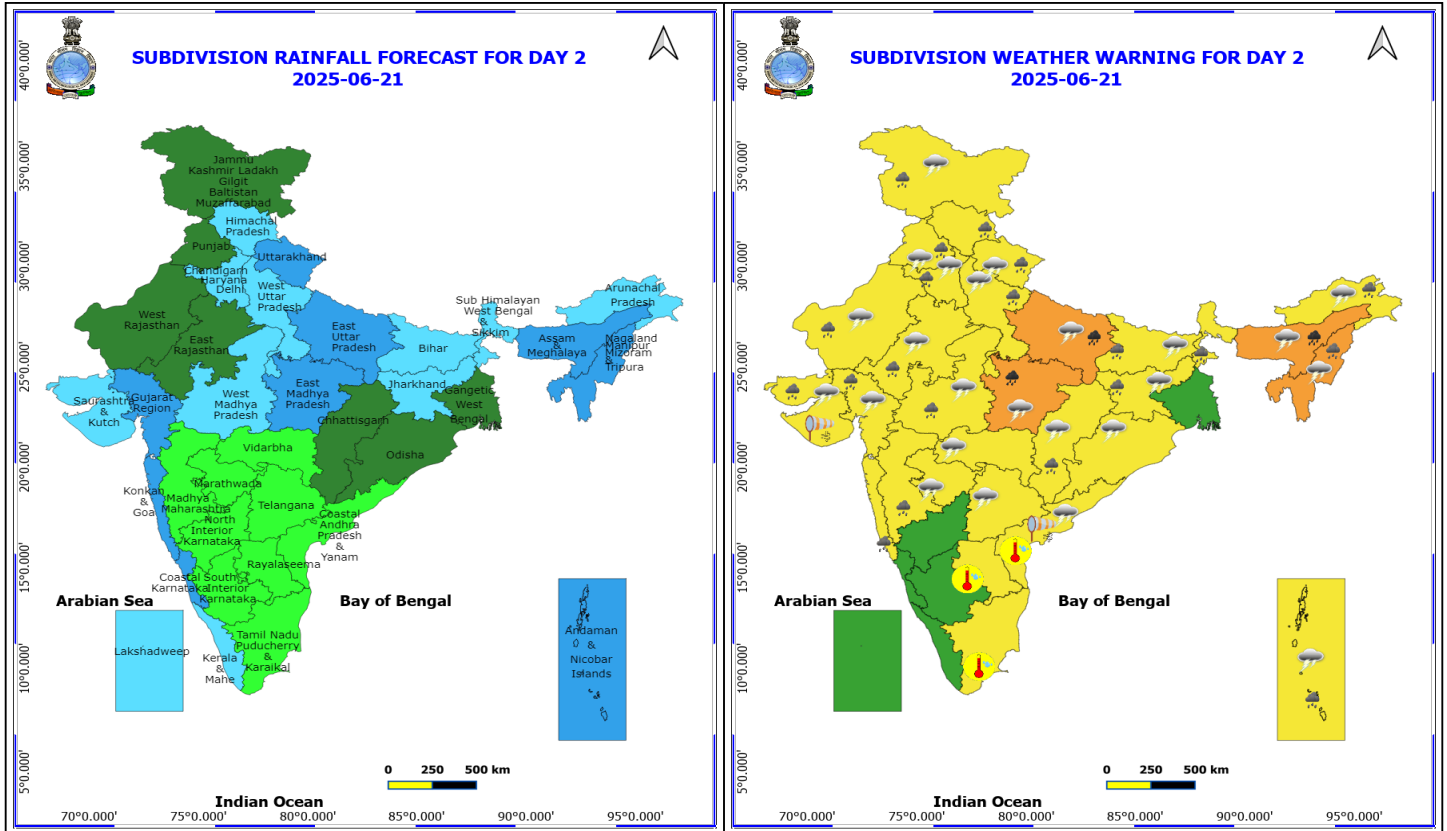
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eastcentral, north and southwest Arabian Sea.

❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over most parts of eastcentral & adjoining areas of northeast Arabian Sea, adjoining & some parts of westcentral Arabian Sea, along and off Gujarat, Konkan coasts, along and off north and adjoining south Andhra Pradesh coast, adjoining & some parts of westcentral Bay of Bengal.

❖ **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over eastern parts of westcentral & adjoining eastcentral Arabian Sea.





## 21 June (Day 2)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, East Madhya Pradesh and East Uttar Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Bihar, Chhattisgarh, Gujarat State, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Punjab, Rajasthan, Sub Himalayan West Bengal & Sikkim, Uttarakhand, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Odisha, Uttar Pradesh 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, Haryana, Chandigarh & Delhi, Jharkhand, Marathwada, Nagaland, Manipur, Mizoram and Tripura, Punjab, Telangana and Vidarbha.
- ❖ **Strong Surface Winds** very likely at isolated places over Coastal Andhra Pradesh and Saurashtra & Kutch.
- ❖ **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, some parts of

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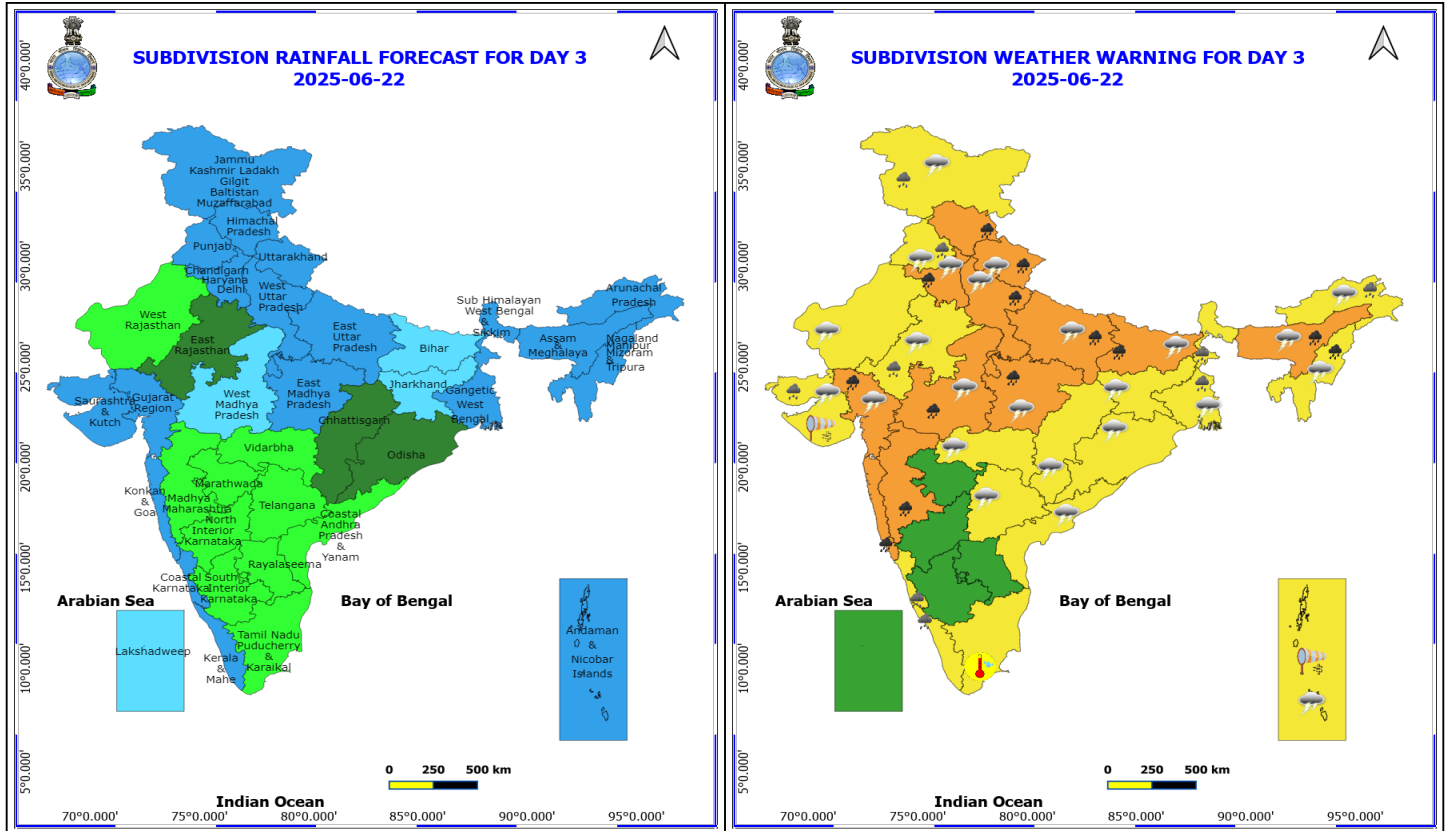
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eastcentral, north and southwest Arabian Sea.

❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over most parts of eastcentral & adjoining areas of northeast Arabian Sea, adjoining & some parts of westcentral Arabian Sea, along and off Gujarat coast, along and off north and adjoining south Andhra Pradesh coast, adjoining & some parts of westcentral Bay of Bengal, some parts of southwest and southeast Bay of Bengal, over Gulf of Mannar.

❖ **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over eastern parts of westcentral & adjoining eastcentral Arabian Sea.



## 22 June (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Bihar, Gujarat Region, Haryana, Chandigarh & Delhi, Himachal Pradesh, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Uttar Pradesh and Uttarakhand.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Coastal Karnataka, East Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Kerala & Mahe, Punjab, Saurashtra & Kutch and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Rajasthan and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Uttar Pradesh 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, Haryana, Chandigarh & Delhi, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Punjab, Telangana and Vidarbha.
- ❖ **Strong Surface Winds** very likely at isolated places over Andaman & Nicobar Islands and Saurashtra & Kutch.
- ❖ **Hot and Humid weather** very likely at isolated places over 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, some parts of eastcentral, north and southwest Arabian Sea.

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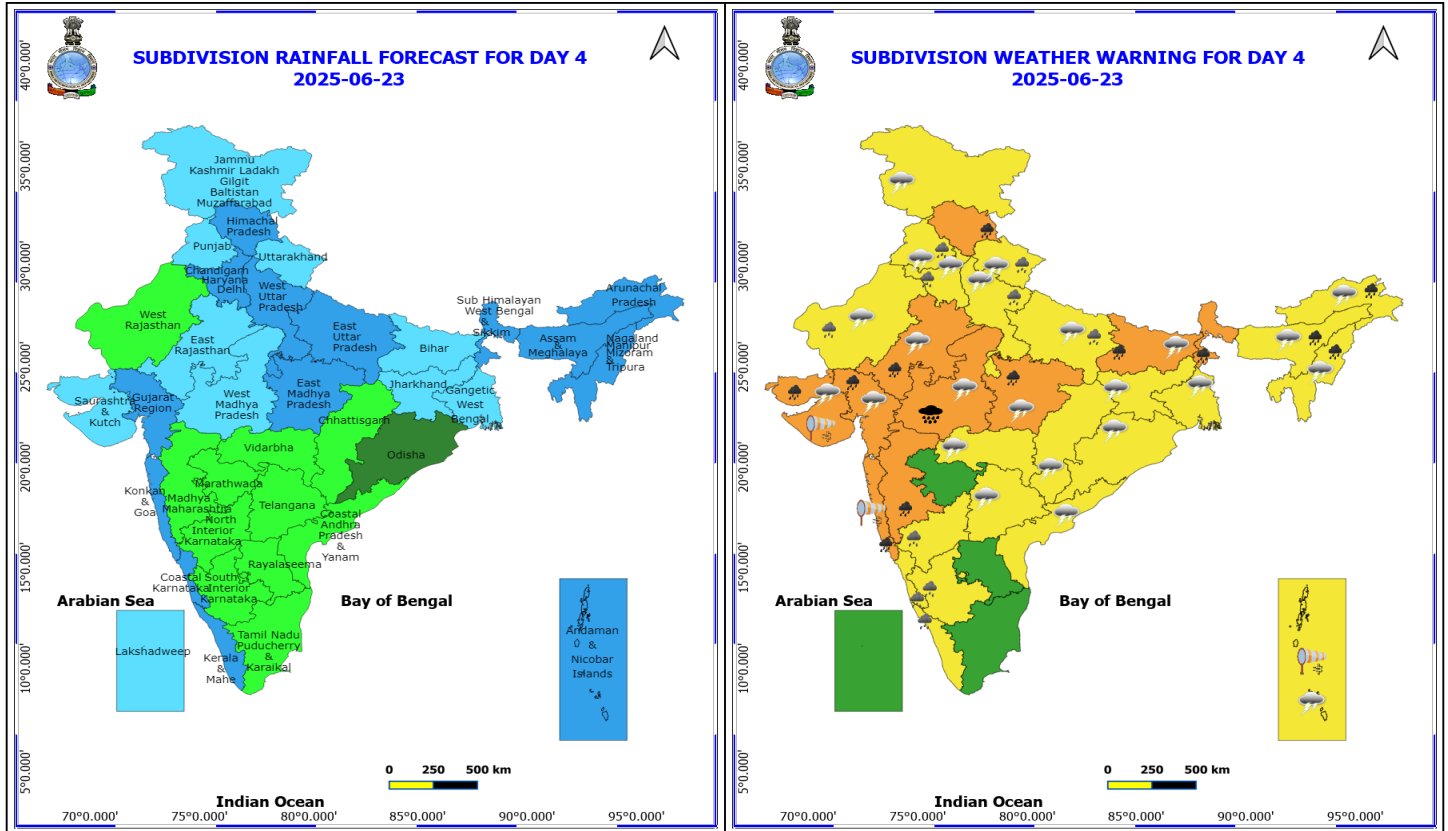
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❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over most parts of eastcentral & adjoining areas of northeast Arabian Sea, adjoining & some parts of westcentral Arabian Sea, along and off Gujarat coast, along and off north Andhra Pradesh coast, many parts of westcentral, southwest Bay of Bengal, few southern parts of eastcentral Bay of Bengal, over Gulf of Mannar, over north and adjoining south Andaman Sea.

❖ **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over eastern parts of westcentral & adjoining eastcentral Arabian Sea, over few parts of westcentral Bay of Bengal.



## 23 June (Day 4)

- ❖ **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, some parts of eastcentral, north and southwest Arabian Sea.
- ❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over most parts of eastcentral & adjoining areas of northeast Arabian Sea, adjoining & some parts of westcentral Arabian Sea, along and off Gujarat, north Konkan coasts, along and off north Andhra Pradesh coast, many parts of westcentral, south Bay of Bengal, few southern parts of eastcentral Bay of Bengal, over north and adjoining south Andaman Sea.

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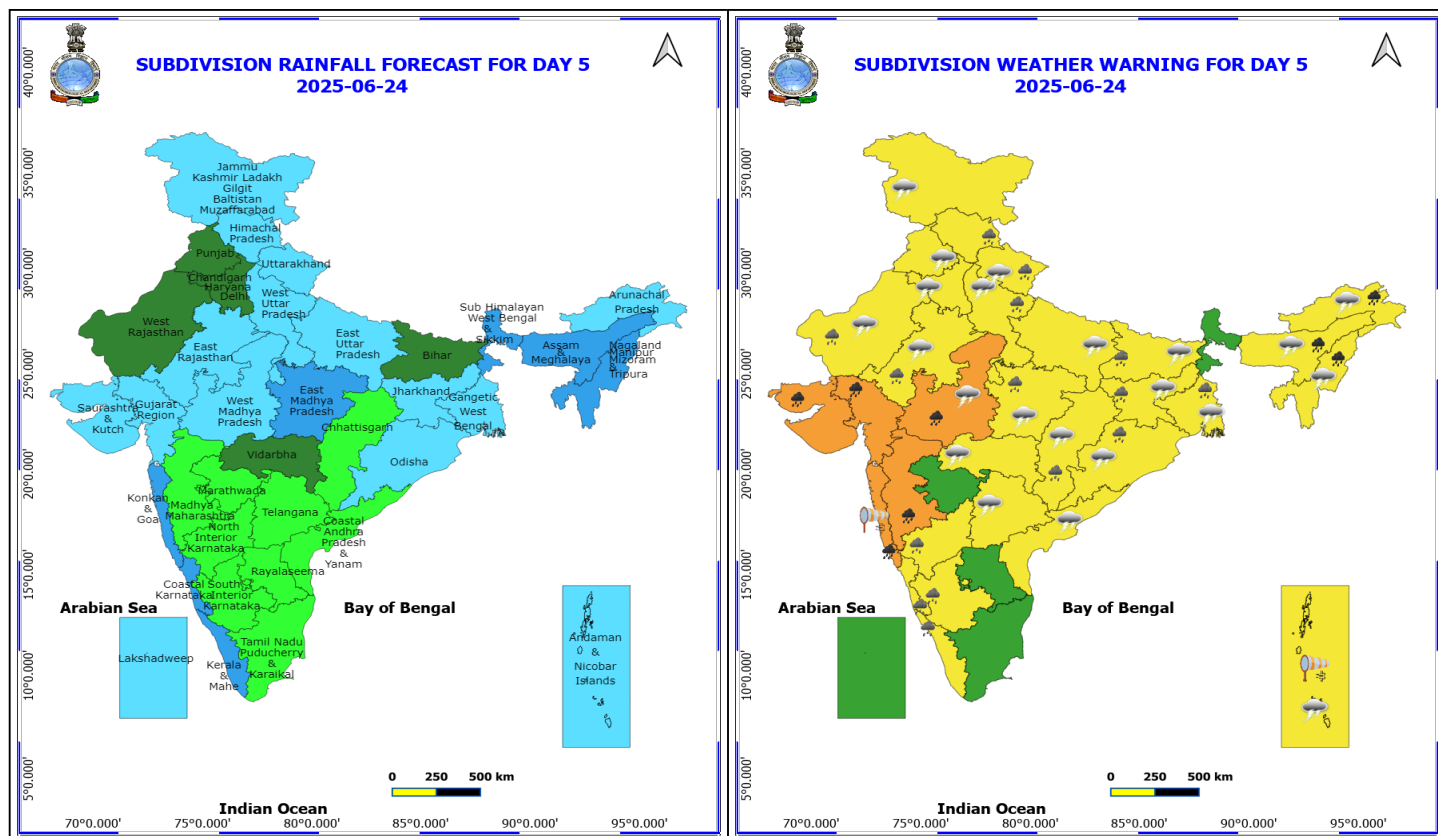
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❖ **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over western parts eastcentral & adjoining westcentral Arabian Sea, over few parts of westcentral Bay of Bengal.



## 24 June (Day 5)

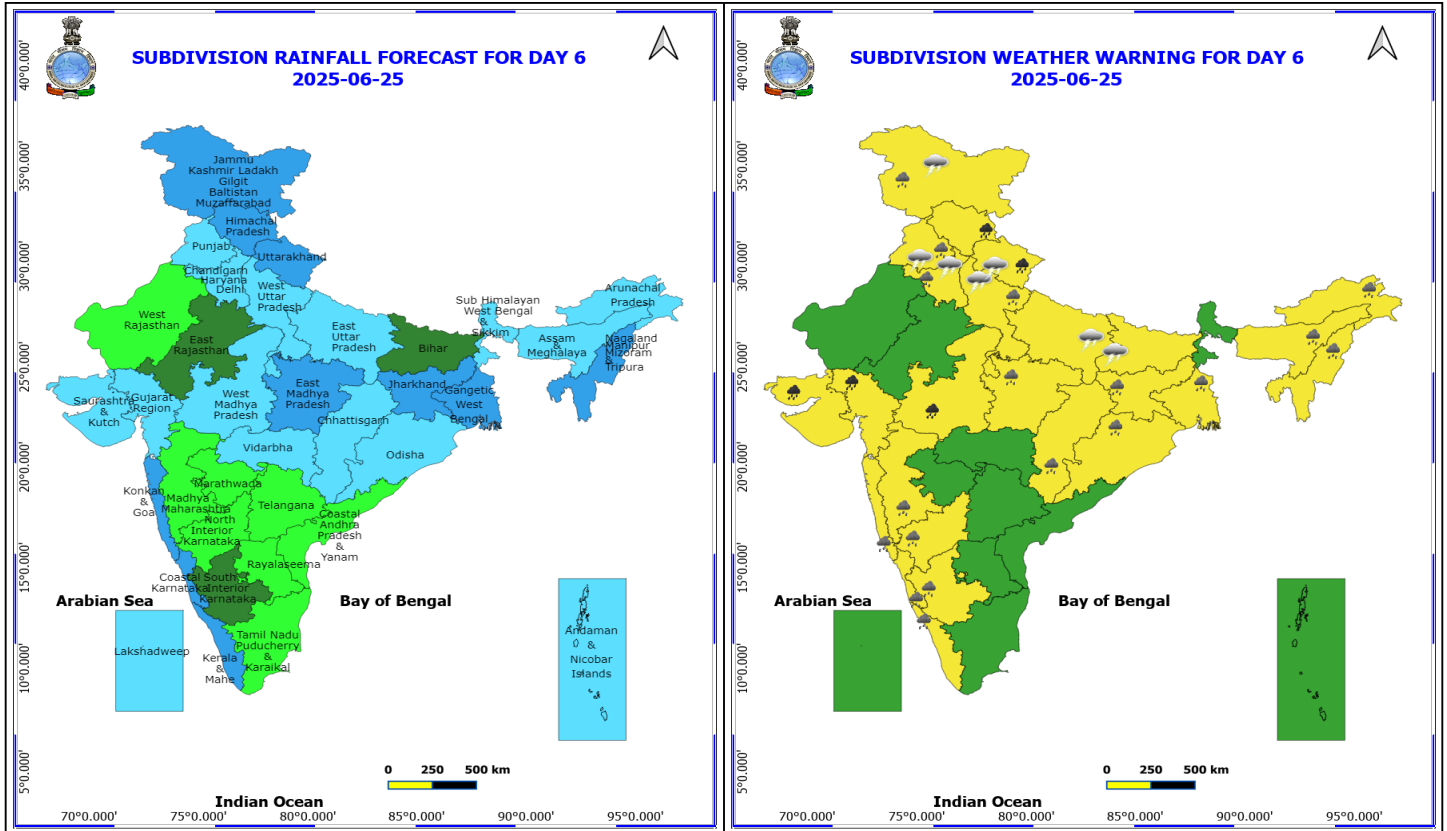
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Madhya Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Coastal Karnataka, East Rajasthan, Gujarat State, Himachal Pradesh, Jharkhand, Kerala & 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.
- ❖ **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, some parts of eastcentral, north and southwest Arabian Sea.
- ❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over most parts of eastcentral & adjoining areas of northeast Arabian Sea, adjoining & some parts of westcentral Arabian Sea, along and off Gujarat, Konkan coasts, off north Andhra Pradesh coast, most parts of central Bay of Bengal, many parts of southwest and adjoining southeast Bay of Bengal, over north and adjoining south Andaman Sea.
- ❖ **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over western parts eastcentral & adjoining westcentral Arabian Sea, over few parts of westcentral Bay of Bengal.

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## 25 June (Day 6)

- ❖ **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.

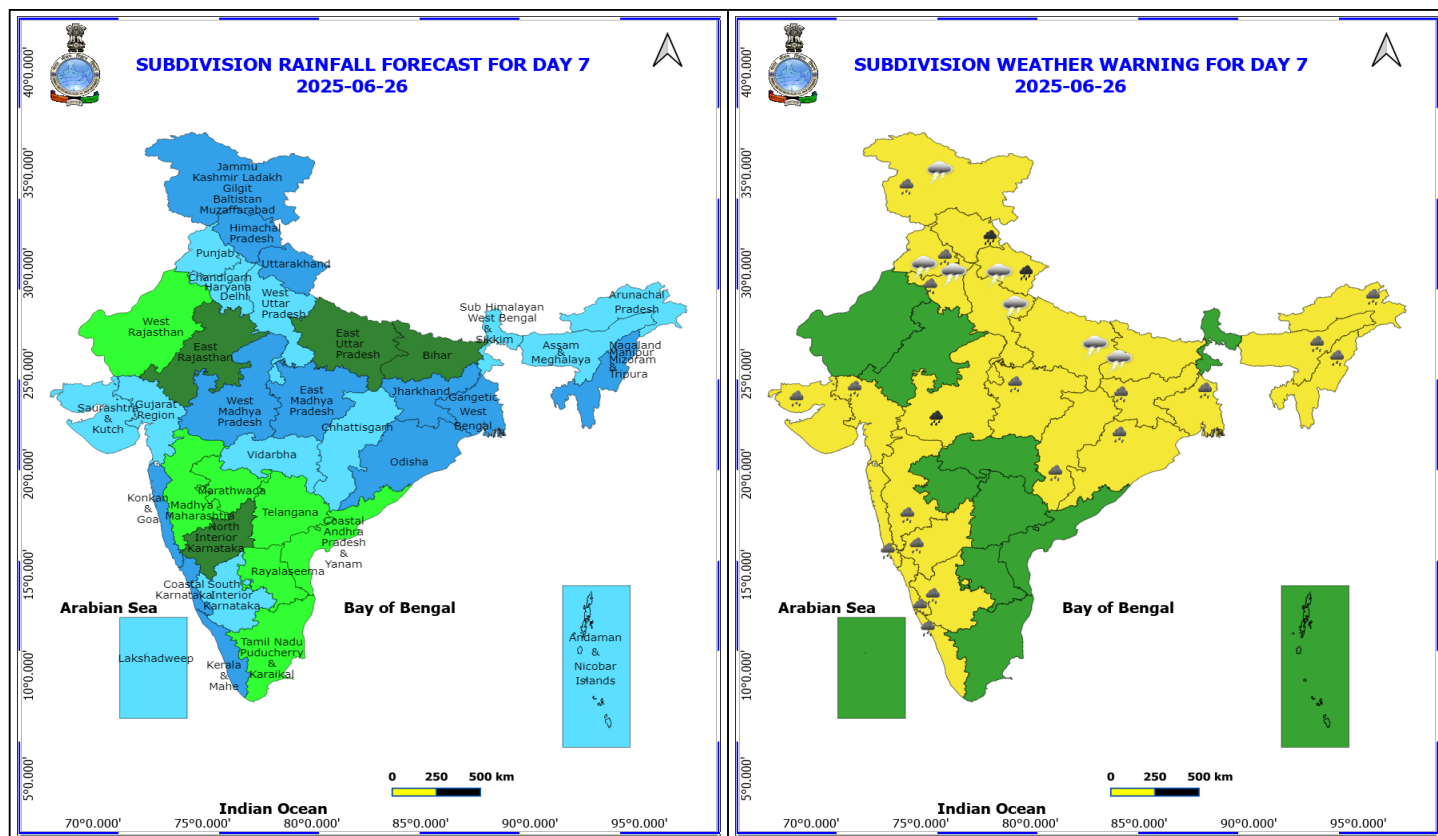
**No Fishermen Warning**

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## 26 June (Day 7)

- ❖ **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, Coastal 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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# Table-1

## 7 Days Rainfall Forecast

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

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

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Fig. 1: Maximum Temperatures Dated 2025-06-20

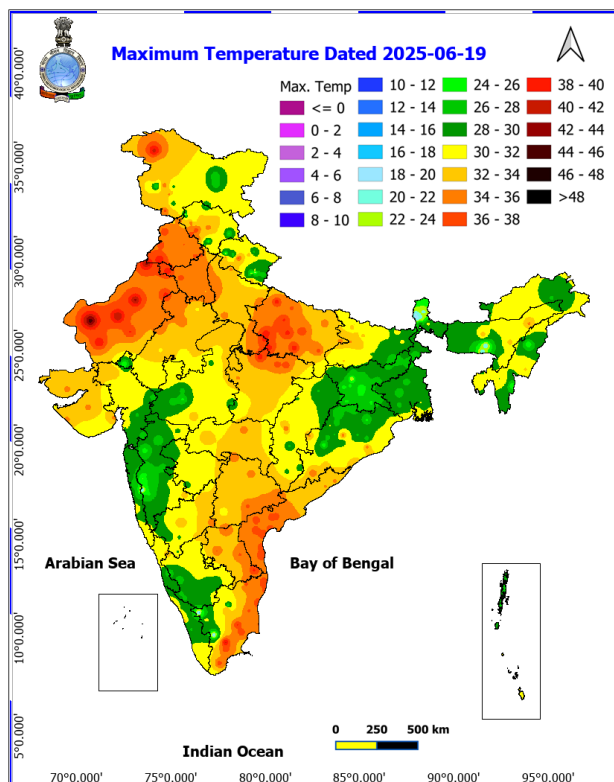


Fig. 2: Departure of Maximum Temp. Dated 2025-06-20

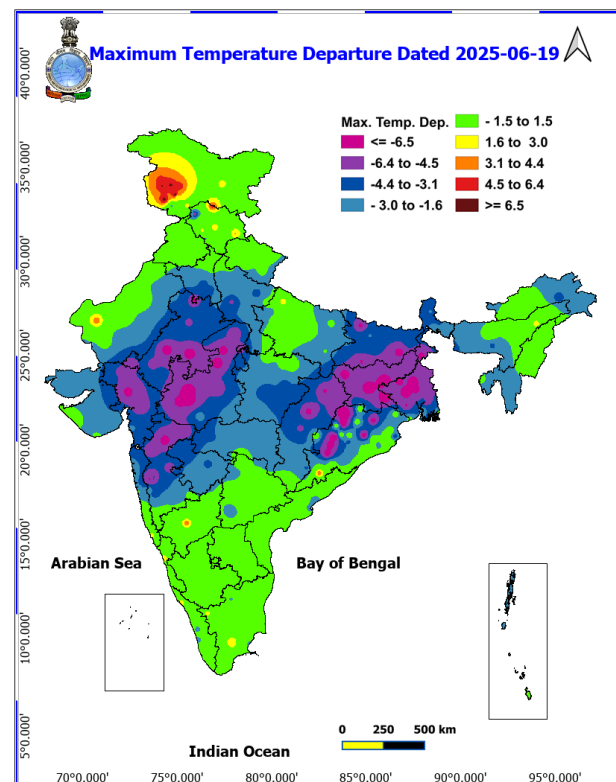


Fig. 3: Minimum Temperatures Dated 2025-06-20

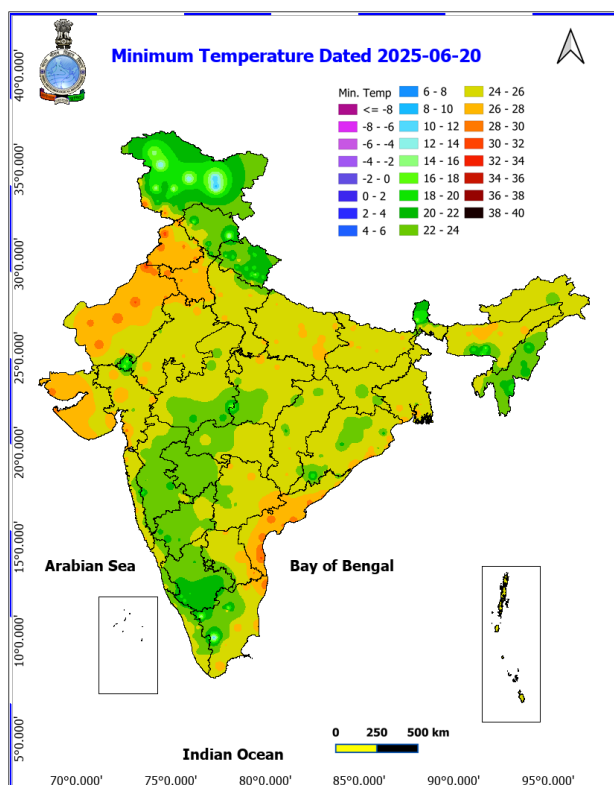
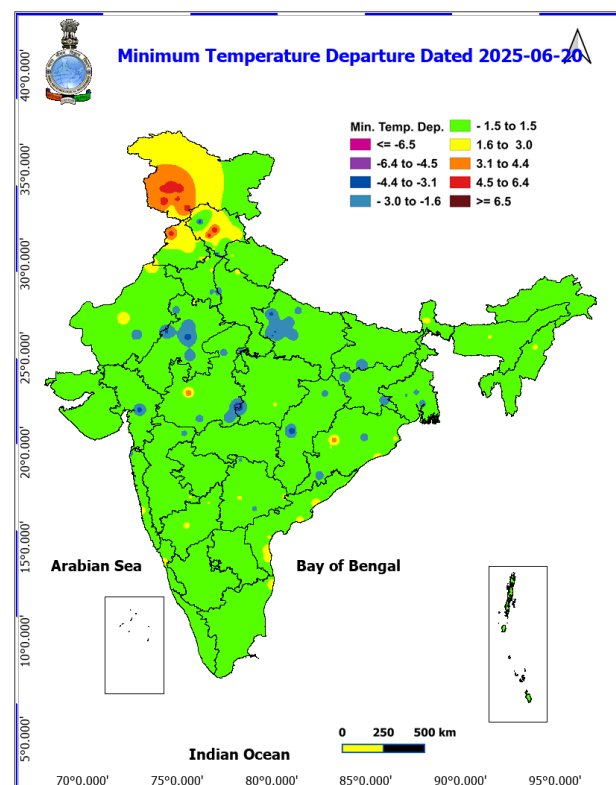
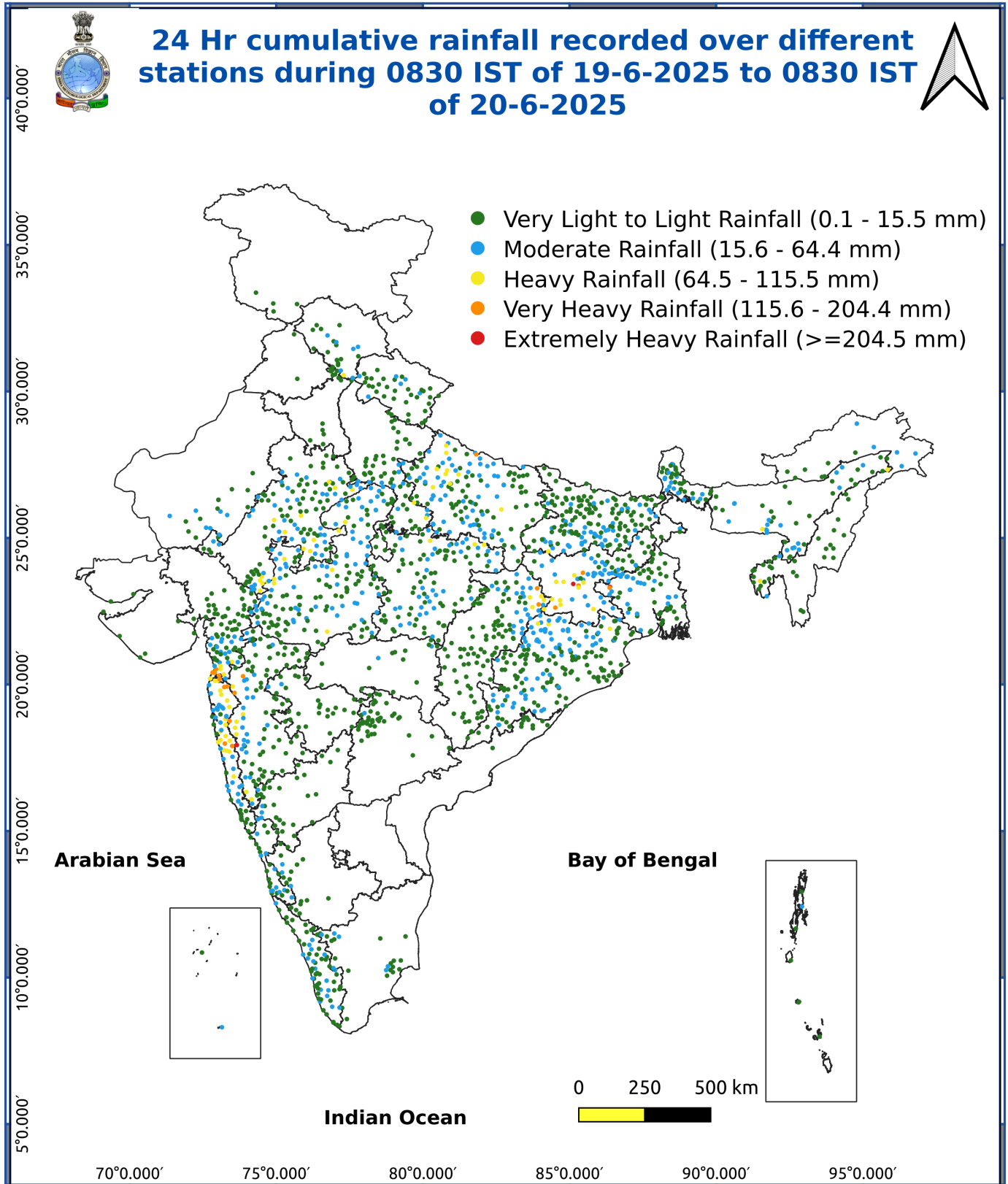


Fig. 4: Departure of Minimum Temp. Dated 2025-06-20





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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 northwest Madhya Pradesh on 23<sup>rd</sup> June.**
- **Very heavy rainfall** over West Madhya Pradesh during 20<sup>th</sup>-26<sup>th</sup>; East Madhya Pradesh during 21<sup>st</sup>-23<sup>rd</sup>; Chhattisgarh, Jharkhand on 20<sup>th</sup>; Bihar on 22<sup>nd</sup> & 23<sup>rd</sup>, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura during 22<sup>nd</sup>-24<sup>th</sup>, Arunachal Pradesh on 23<sup>rd</sup> & 24<sup>th</sup>; Assam & Meghalaya during 20<sup>th</sup>-24<sup>th</sup>; East Uttar Pradesh during 20<sup>th</sup>-22<sup>nd</sup>; East Rajasthan on 20<sup>th</sup> & 23<sup>rd</sup>, south Haryana, West Uttar Pradesh on 22<sup>nd</sup>, Himachal Pradesh, Uttarakhand during 22<sup>nd</sup>-26<sup>th</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**, 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.
- In **Sub-Himalayan West Bengal**, maintain proper drainage channels in rice nurseries and fields of jute and ginger to avoid water stagnation.
- In **Jharkhand**, postpone sowing of rice nurseries, 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 **Rajasthan**, store the harvested green gram and vegetables in safe place.
- In **East Uttar Pradesh**, make necessary arrangement to protect paddy nurseries from the adverse impacts of heavy rainfall.
- In **Konkan & Goa** make arrangement to drain out excess water from rice nurseries, fields of finger millet, groundnut and orchards to prevent water logging.
- In **Inghat areas of Madhya Maharashtra**, drain out excess water from rice nurseries and banana plantations.
- In **North Chhattisgarh**, postpone nursery sowing of rice and ensure proper drainage in already sown rice nurseries.
- In **Assam**, keep the harvested produce of sesame, foxtail millet, *Boro* rice, banana and citrus at safer places.

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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.
- Agromet advisories for likely impact of Thunderstorm / Gusty Winds / Squally 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.



## LEGENDS

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



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

## Subdivision Colour

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

## Probabilistic Forecast

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

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

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## LEGENDS

### WARNING

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

### Probabilistic Forecast

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



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



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

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

(b). Based on Actual maximum temperature

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

(c). Criteria for heat wave for coastal stations

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



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

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



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

(a). Based on departure

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

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

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

(c) For Coastal Stations

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



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

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



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

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



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



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



Ice deposits on ground

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



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

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



Effect of various waves in the sea over specific area

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



Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

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

\*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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