

2026-07-16

Time of Issue: 14:20:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather forecast and Warnings:

Northwest India:

- **Isolated to Scattered** rainfall likely over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 16th-17th July.
- **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 16th-19th July; West Uttar Pradesh during 16th-18th July; East Uttar Pradesh during 16th-17th July; East Rajasthan and West Rajasthan during 16th-22nd July.
- **Fairly Widespread to Widespread** rainfall likely over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-22nd July; Uttarakhand during 16th-22nd July.
- **Fairly Widespread to Widespread** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 20th-22nd July; West Uttar Pradesh during 19th-22nd July; East Uttar Pradesh during 18th-22nd July.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 16th-22nd July.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over East Rajasthan and West Rajasthan during 20th-22nd July.
- **Isolated thunderstorm & lightning** likely over Himachal Pradesh on 17th July; East Uttar Pradesh and Uttarakhand during 16th-22nd July.
- **Isolated heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 19th-20th July and on 22nd July; Himachal Pradesh on 18th July; Uttarakhand during 16th-17th July and on 22nd July; Haryana Chandigarh & Delhi and Punjab during 20th-22nd July; West Uttar Pradesh during 19th-22nd July; East Uttar Pradesh during 17th-18th July and on 22nd July with isolated **very heavy rainfall** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 21st July; Himachal Pradesh during 19th-22nd July; Uttarakhand during 18th-21st July; East Uttar Pradesh during 19th-21st July.

Central India:

- **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 16th-20th July; East Madhya Pradesh on 16th July; Vidarbha during 16th-19th July.
- **Fairly Widespread to Widespread** rainfall likely over West Madhya Pradesh during 21st-22nd July; East Madhya Pradesh during 17th-22nd July; Vidarbha during 20th-22nd July; Chhattisgarh during 16th-22nd July.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over East Madhya Pradesh, Vidarbha and West Madhya Pradesh during 16th-20th July.
- **Isolated thunderstorm & lightning** likely over Chhattisgarh during 16th-20th July.
- **Isolated heavy rainfall** likely over Chhattisgarh and East Madhya Pradesh during 17th-21st July; Vidarbha during 17th-18th July with isolated **very heavy rainfall** also likely over Chhattisgarh on 16th July.

East India:

- **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands during 16th-20th July; Bihar on 16th July and on 22nd July; Odisha during 19th-22nd July.
- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 21st-22nd July; Gangetic West Bengal, Jharkhand and Sub-Himalayan West Bengal & Sikkim during 16th-22nd July; Bihar during 17th-21st July; Odisha during 16th-18th July.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands on 16th July; Gangetic West Bengal during 16th-17th July; Jharkhand during 16th-20th July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands during 17th-22nd July; Gangetic West Bengal during 18th-20th July; Bihar during 16th-22nd July.
- **Isolated thunderstorm & lightning** likely over Sub-Himalayan West Bengal & Sikkim during 16th-22nd July.

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- Isolated **heavy rainfall** likely over Bihar and Sub-Himalayan West Bengal & Sikkim during 16th-17th July and during 21st-22nd July; Gangetic West Bengal during 16th-17th July; Jharkhand during 16th-18th July; Odisha on 16th July and during 18th-20th July with isolated **very heavy rainfall** also likely over Bihar and Sub-Himalayan West Bengal & Sikkim during 18th-20th July; Odisha on 17th July.
- **Heavy to very heavy rainfall at few places with extremely heavy rainfall** likely at isolated places over Odisha on 16th July.

Northeast India:

- **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh during 16th-20th July; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 16th-22nd July.
- **Isolated to Scattered** rainfall likely over Arunachal Pradesh during 21st-22nd July.
- Isolated **thunderstorm & lightning** likely over Arunachal Pradesh during 16th-18th July; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 16th-20th July.
- Isolated **heavy rainfall** likely over Arunachal Pradesh on 16th July and during 20th-22nd July; Assam & Meghalaya during 20th-22nd July; Nagaland, Manipur, Mizoram & Tripura during 16th-22nd July with isolated **very heavy rainfall** also likely over Arunachal Pradesh during 17th-19th July; Assam & Meghalaya during 16th-19th July.

West India:

- **Fairly Widespread to Widespread** rainfall likely over Konkan & Goa during 16th-22nd July.
- **Isolated to Scattered** rainfall likely over Gujarat Region, Madhya Maharashtra, Marathwada and Saurashtra & Kutch during 16th-22nd July.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Konkan & Goa on 16th July; Madhya Maharashtra during 16th-17th July; Marathwada during 16th-18th July.
- Isolated **heavy rainfall** likely over Konkan & Goa and Madhya Maharashtra on 16th July.

South Peninsular India:

- **Isolated to Scattered** rainfall likely over Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Telangana during 16th-22nd July; Kerala & Mahe on 16th July and on 22nd July; Lakshadweep during 16th-17th July and on 22nd July; Coastal Karnataka on 16th July.
- **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe during 17th-21st July; Lakshadweep during 18th-21st July; Coastal Karnataka during 17th-22nd July.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Coastal Andhra Pradesh & Yanam on 16th July; Rayalaseema during 16th-17th July; Telangana during 16th-18th July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 17th-20th July; Coastal Karnataka, North Interior Karnataka and South Interior Karnataka on 19th July; Rayalaseema during 18th-20th July; Telangana during 19th-20th July.
- Isolated **thunderstorm & lightning** likely over Kerala & Mahe during 16th-17th July; North Interior Karnataka during 17th-18th July; Coastal Andhra Pradesh & Yanam on 17th July.
- Isolated **heavy rainfall** likely over Coastal Andhra Pradesh & Yanam on 16th July.
- Strong Surface Winds likely over Coastal Karnataka, North Interior Karnataka and South Interior Karnataka on 19th July; Rayalaseema and Telangana during 16th-20th July.

Heat Wave and Hot & Humid weather conditions warning:

- **Heat wave** conditions very likely in isolated pockets over Coastal Andhra Pradesh & Yanam and Rayalaseema on 16th July; Tamil Nadu, Puducherry & Karaikal during 16th-17th July.
- **Hot and humid** weather conditions likely to prevail over Haryana Chandigarh & Delhi and Punjab during 16th-18th July; East Uttar Pradesh, Telangana and West Uttar Pradesh on 16th July; Tamil Nadu, Puducherry & Karaikal during 16th-17th July; Coastal Andhra Pradesh & Yanam and Rayalaseema on 17th July.

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Fishermen Warning:

Fishermen are advised not to venture:

- **Arabian Sea:** Along and off Somalia, Oman, over most parts of west central adjoining some parts of south west Arabian Sea during 16th to 21st July & few parts of northwest Arabian Sea during 16th to 18th July; along and off Gujarat Coast during 18th to 21st July and North Maharashtra Coast during 19th to 20th July.
- **Bay of Bengal:** Along and off Gangetic West Bengal and Odisha coast adjoining most parts of north and few parts of central Bay of Bengal, some parts of south Bay of Bengal and adjoining areas during 16th to 18th July, over Andaman Sea during 16th to 17th July.



Main Weather Observations:

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

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Odisha:** Banki (dist Cuttack), Angul (dist Angul) 21 Each; Talcher (dist Angul) 19; Tigiria (dist Cuttack) 17; Parjang (dist Dhenkanal), Harabhangra (dist Boudhgarh) 14 Each; Hatadihi (dist Keonjhar), Bhapur (dist Nayagarh) 13 Each; Raghunathpur (dist Jagatsinghpur), Dhenkanal (dist Dhenkanal), Altuma (dist Dhenkanal), Dhenkanal PTO (dist Dhenkanal) 12 Each; Khandapara (dist Nayagarh), Tikabali (dist Kandhamal), Athmalik (dist Angul), Nayagarh (dist Nayagarh), Narsinghpur (dist Cuttack), Biridi (dist Jagatsinghpur), Marsaghai (dist Kendrapara) 11 Each; Kankadahad (dist Dhenkanal), Tikarpara (dist Angul), Alipingal (dist Jagatsinghpur), Salebhatta (dist Bolangir), Kalinga (dist Kandhamal) 10 Each; Kaniha (dist Angul), Puri (dist Puri), Ghatagaon (dist Keonjhar), Garadapur (dist Kendrapara), Bonth (dist Bhadrak), Niali (dist Cuttack), Dunguripalli (dist Sonepur), Bhuban (dist Dhenkanal), Jagatsinghpur (dist Jagatsinghpur), Nischintakoli (dist Cuttack), Satyabadi (dist Puri), K Nuagaon (dist Kandhamal), Kamakhyanagar (dist Dhenkanal), Salepur (dist Cuttack), Anandpur (dist Keonjhar), Gania (dist Nayagarh), Jatni (dist Khurda), Gondia (dist Dhenkanal) 9 Each; Hindol (dist Dhenkanal), Pipili (dist Puri), Korei (dist Jajpur), Athgarh (dist Cuttack), Tirtol (dist Jagatsinghpur), Barpalli (dist Bargarh), Brahmagiri (dist Puri), Bolagarh (dist Khurda), Rajkishorenagar (dist Angul), Harichandanpur (dist Keonjhar), Sukinda (dist Jajpur), Phulbani (dist Kandhamal), Chakapad (dist Kandhamal), Mohakalapada (dist Kendrapara), Ghasipura (dist Keonjhar), Begunia (dist Khurda), Jenapur (dist Jajpur) 8 Each; Belgaon (dist Bolangir), Phiringia (dist Kandhamal), Naraj (dist Cuttack), Binika (dist Sonepur), Akhuapada (dist Bhadrak), Bari (dist Jajpur), Paradeep Cwr (dist Jagatsinghpur), Binjharpur (dist Jajpur), Chendipada (dist Angul), Swam-patna (dist Keonjhar), Jajpur (dist Jajpur), Kotagarh (dist Kandhamal), Boudhgarh (dist Boudhgarh), Tarva (dist Sonepur), Krishnaprasad (dist Puri), Bhadrak (dist Bhadrak), Chandbali (dist Bhadrak), Banarpal (dist Angul), Rajnagar (dist Kendrapara), Nuagaon (dist Nayagarh), Jajpur PTO (dist Jajpur), Bargarh (dist Bargarh) 7 Each; Kujanga (dist Jagatsinghpur), Kantamal (dist Boudhgarh), Kakatpur (dist Puri), Lahunipara (dist Sundargarh), Astaranga (dist Puri), Khairamal (dist Boudhgarh), Tihidi (dist Bhadrak), Kantapada (dist Cuttack), Baliguda (dist Kandhamal), Derabis (dist Kendrapara), Daspalla (dist Nayagarh), Daitari (dist Keonjhar), Odagaon (dist Nayagarh), Ranpur (dist Nayagarh), Danagadi (dist Jajpur), Nimpara (dist Puri), Bhandaripokhari (dist Bhadrak), Banspal (dist Keonjhar), Suliapada (dist Mayurbhanj), Kendrapada PTO (dist Kendrapara), Mundali (dist Cuttack) 6 Each; **Assam & Meghalaya:** Matijuri (dist Hailakandi), Margherita (dist Tinsukia) 16 Each; Matijuri ARG (dist Hailakandi) 13; Cachar Kvk AWS (dist Cachar) 9; A P Ghat (dist Cachar), Chauldhowaghat (dist Lakhimpur), Lakhimpur ARG (dist Cachar), Chouldhuwaghat ARG (dist Lakhimpur) 8 Each; Kokrajhar (dist Kokrajhar), Udaipur (dist Tinsukia), Mawkyrwat (dist South West Khasi Hills) 7 Each; Moranhat (dist Dibrugarh), Nahar Katia (dist Dibrugarh), N.lakhimpur/Lilabari (dist Lakhimpur) 6 Each; **Bihar:** Mainatand (dist West Champaran) 15; Sikta (dist West Champaran) 13; **Arunachal Pradesh:** Itanagar (dist Papumpara) 13; Naharlagun AWS (dist Papumpara) 6; **Nagaland, Manipur, Mizoram & Tripura:** Kadamtala ARG (dist North Tripura) 10; Jharnapani AWS (dist Dimapur) 6; **Konkan & Goa:** Jawhar (dist Palghar) 9; Mokheda - Fmo (dist Palghar) 6; **East Madhya Pradesh:** Ramnagar (dist Maihar) 9; **Chhattisgarh:** Shankargarh (dist Balrampur) 9; Kusmi (dist Balrampur), Chando (dist Balrampur) 8 Each; Patna (dist Koriya) 6; **Sub Himalayan West Bengal & Sikkim:** Buxaduar (dist Alipurduar) 8; Beech Tea Garden (dist Alipurduar) 7; Champasari (dist Darjeeling), Yuksom (dist Gyalshing) 6 Each; **East Uttar Pradesh:** Kheri Lakhimpur (dist Kheri) 6; **Jharkhand:** Koner (dist Hazaribag), Koner Dvc (dist Hazaribag) 6 Each.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Extremely heavy rain** at isolated places over Odisha. **Heavy to very heavy rain** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha and Bihar. **Heavy rain** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, East Madhya Pradesh, Konkan & Goa and Chhattisgarh.

- **Extremely heavy rainfall (?21 cm)** has been recorded over Odisha.
- **Very Heavy rainfall (12-20 cm)** has been recorded over Arunachal Pradesh, Assam & Meghalaya and Bihar.
- **Heavy rainfall (7-11 cm)** has been recorded over East Madhya Pradesh, Chhattisgarh, Konkan, Sub-

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Himalayan West Bengal & Sikkim, Tripura and Nagaland.

Thunderstorm accompanied with Squally/Gusty winds with speed reaching 60-80 kmph at isolated places over Punjab and Gujarat Region; **with speed reaching 40-60 kmph** at isolated places over Andaman & Nicobar Islands, Odisha, Bihar, Jharkhand, Haryana, Rajasthan, Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathwada, Saurashtra & Kutch.

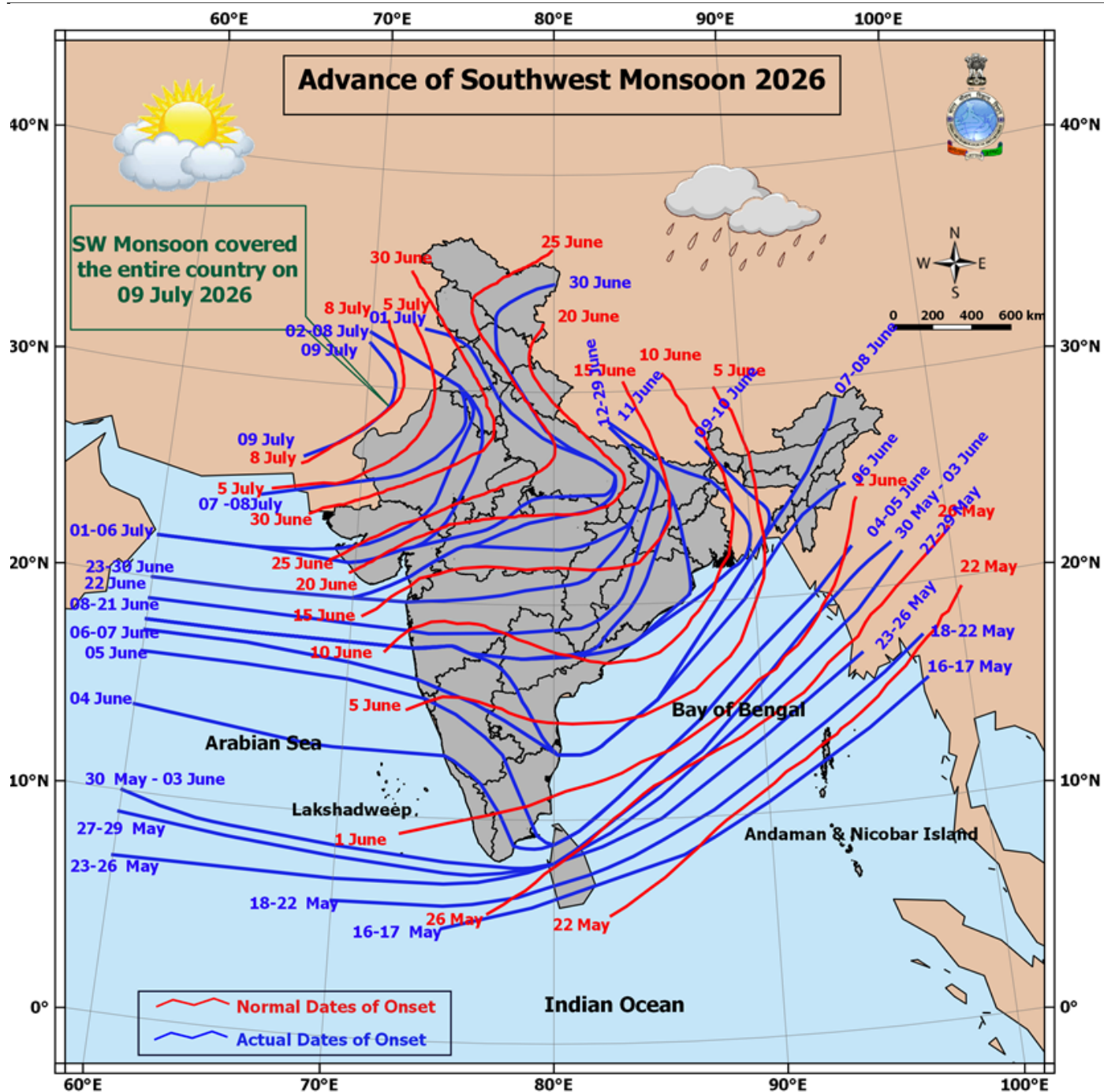
❖ **Minimum Temperature Departures (as on 16-07-2026): markedly above normal(> 5.1°C)** at few places over East Madhya Pradesh; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Bihar, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, West Rajasthan, West Madhya Pradesh, Saurashtra & Kutch and Coastal Andhra Pradesh & Yanam. **appreciably above normal(3.1°C to 5.0°C)** at few places over Haryana-Chandigarh-Delhi, Vidarbha, Coastal Andhra Pradesh & Yanam and Rayalaseema; at isolated places over Andaman & Nicobar Islands, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at many places over Telangana; at most places over Punjab and Lakshadweep; at few places over Andaman & Nicobar Islands, Arunachal Pradesh, Sub Himalayan West Bengal & Sikkim, Bihar, West Uttar Pradesh, West Rajasthan, East Rajasthan, East Madhya Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka and Kerala & Mahe; at isolated places over Gangetic West Bengal, Odisha, Jharkhand, East Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, West Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh and North Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Assam & Meghalaya, Odisha, East Uttar Pradesh, Uttarakhand, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, North Interior Karnataka and Kerala & Mahe; at most places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Himachal Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Chhattisgarh and South Interior Karnataka; at few places over Andaman & Nicobar Islands, Arunachal Pradesh, Sub Himalayan West Bengal & Sikkim, Bihar, West Uttar Pradesh, Haryana-Chandigarh-Delhi, West Rajasthan, West Madhya Pradesh, Konkan & Goa, Vidarbha, Telangana and Rayalaseema; at isolated places over East Madhya Pradesh and Coastal Andhra Pradesh & Yanam. **The lowest minimum temperature** of 18.0°C was reported at JEUR (MAHARASHTRA) over the Plains of India.

❖ **Maximum Temperature Departures (as on 15-07-2026): markedly above normal(> 5.1°C)** at many places over Himachal Pradesh; at most places over Arunachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, West Rajasthan, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **appreciably above normal(3.1°C to 5.0°C)** at many places over Punjab; at few places over Haryana-Chandigarh-Delhi; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Bihar and East Rajasthan. **above normal(1.6°C to 3.0°C)** at few places over West Uttar Pradesh; at isolated places over Uttarakhand, Saurashtra & Kutch and Rayalaseema. **near normal(-1.5°C to 1.5°C)** at many places over Gangetic West Bengal, East Uttar Pradesh and Lakshadweep; at most places over Konkan & Goa; at few places over East Madhya Pradesh, Coastal Karnataka and Kerala & Mahe; at isolated places over Andaman & Nicobar Islands, Odisha, West Madhya Pradesh, Gujarat Region and Telangana. **The highest maximum temperature** of 42.5°C was reported at MADURAI (A) (TAMIL NADU).



Meteorological Analysis (Based on 0830 hours IST)

- The low pressure over Northwest Bay of Bengal and adjoining North Odisha -West Bengal coasts now lay as a **Well-marked low pressure area** over the same region at 0830 hrs IST of today, 16th July, 2026. The associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height. It is very likely to move northwestwards across North Odisha & Gangetic West Bengal during next 2 days.
- The **Monsoon trough** at mean sea level now passes through Jammu, Bareilly, Basti, Daltonganj, centre of well Marked Low Pressure area over Northwest Bay of Bengal and adjoining North Odisha -West Bengal coasts and thence east-southeastwards towards Northeast Bay of Bengal.
- The **Western Disturbance** as a cyclonic circulation over North Pakistan & adjoining Jammu lay over Jammu division & neighbourhood between 4.5 & 5.8 km above mean sea level with the trough aloft with axis at 7.6 km above mean sea level now runs roughly along Long. 75°E to the north of Lat. 30°N.
- The **upper air cyclonic circulation** over Northwest Uttar Pradesh & neighbourhood lay over north Haryana & neighbourhood at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over East Uttar Pradesh & adjoining Bihar and extending upto 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over north Gujarat & adjoining southwest Rajasthan lay over southwest Rajasthan & neighbourhood at 3.1km above mean sea level.
- A **trough** runs from the cyclonic circulation associated the **Well marked low pressure area** over Northwest Bay of Bengal and adjoining North Odisha -West Bengal coasts to Eastcentral Arabian Sea across coastal Andhra Pradesh, Telangana and Maharashtra between 5.8 & 7.6 km above mean sea level.
- A fresh **Western Disturbance** is likely to affect Northwest India from 19th July, 2026.
- The **upper air cyclonic circulation** over East Uttar Pradesh & neighbourhood at 5.8 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** lies over North Bihar & neighbourhood at 3.1 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** over East Assam & neighbourhood at 1.5 km above mean sea level has become less marked.

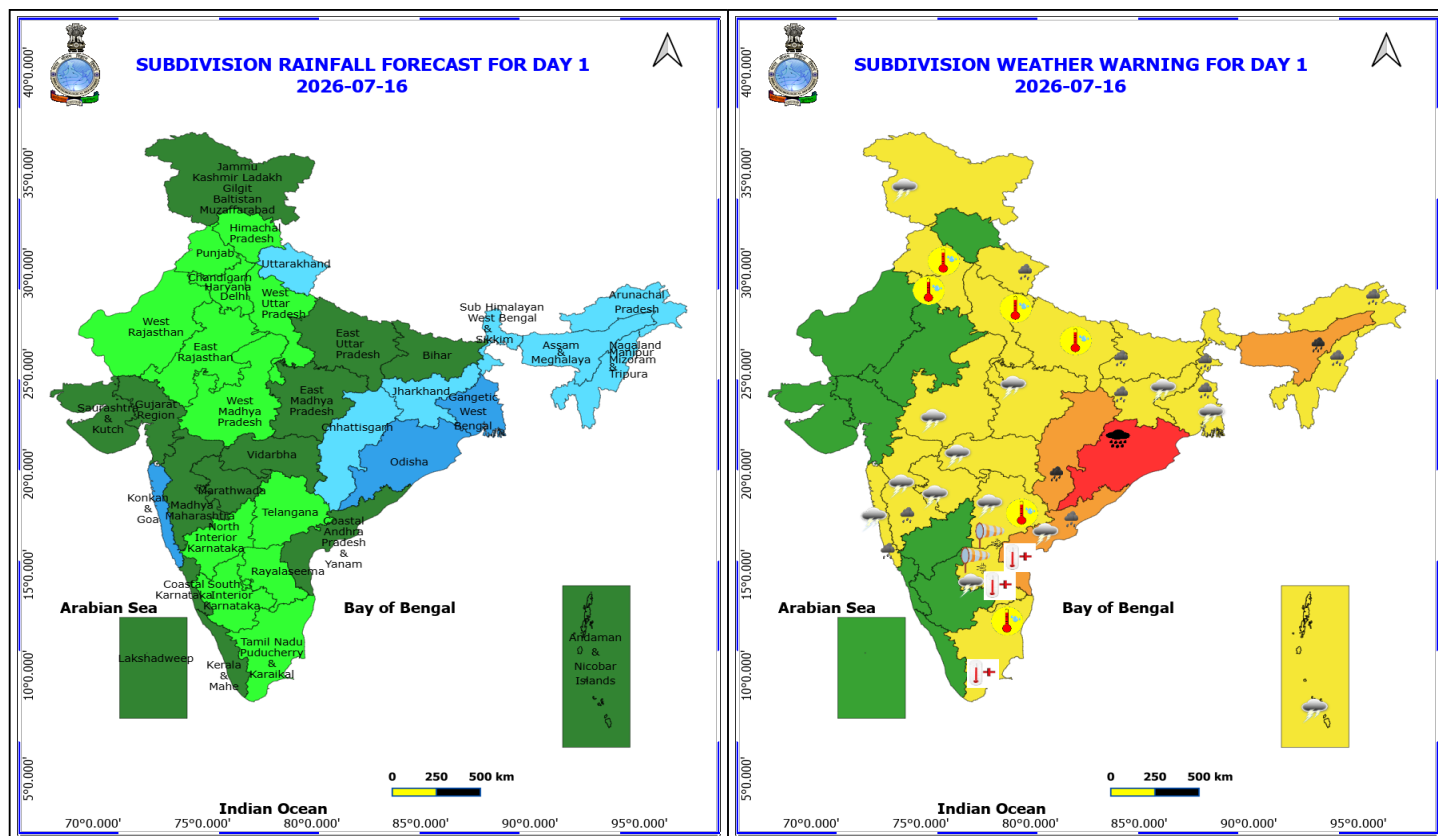


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16 July (Day 1)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Odisha.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya and Chhattisgarh.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Bihar, Coastal Andhra Pradesh, Jharkhand, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Uttarakhand and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Gangetic West Bengal, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Konkan & Goa, Madhya Pradesh, Maharashtra and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, East Uttar Pradesh, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Strong Surface Winds** very likely at isolated places over Rayalaseema and Telangana.
- ❖ **Heat Wave conditions** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ **Hot and Humid weather** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Tamil Nadu Puducherry & Karaikal, Telangana and Uttar Pradesh.

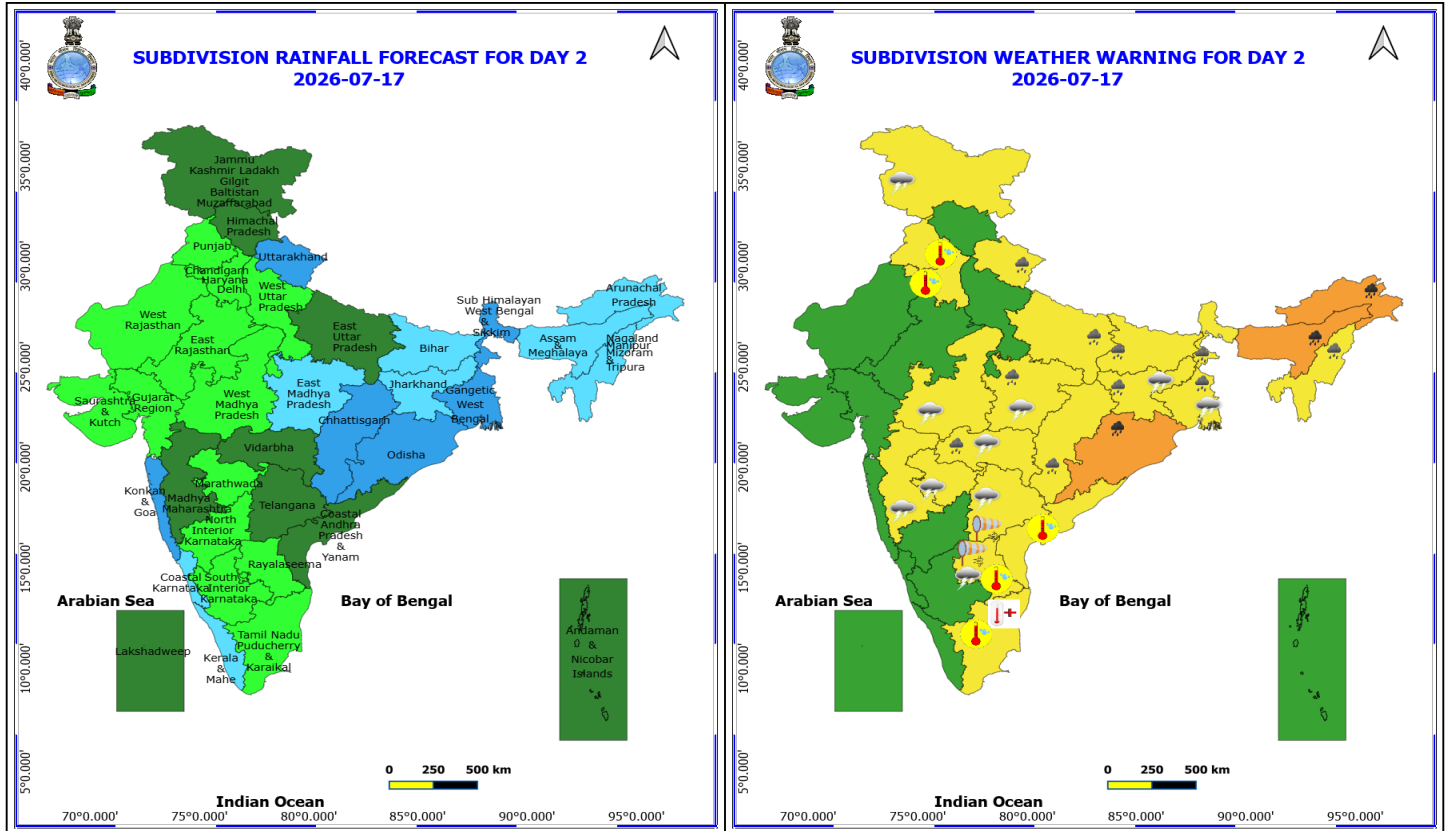
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- ❖ **Arabian Sea: Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail over most parts of west central adjoining few parts of northwest, and some parts of south west Arabian Sea, along and off Somalia, and Oman coasts.
- ❖ **Bay of Bengal: Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail over some parts of south adjoining few parts of west central Bay of Bengal.
- ❖ **Squally Weather with wind speed 40-50 kmph gusting to 60 kmph** is likely to prevail along and off Odisha, Gangetic West Bengal adjoining many parts of north and some parts of Central Bay of Bengal, over Andaman Sea.



17 July (Day 2)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Odisha.
- ❖ **Heavy Rainfall** very likely at isolated places over Bihar, Chhattisgarh, East Madhya Pradesh, East Uttar Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Uttarakhand, Vidarbha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Gangetic West Bengal, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Madhya Pradesh, Maharashtra, Rayalaseema and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Bihar and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh, East Uttar Pradesh, Himachal Pradesh, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, North Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Strong Surface Winds** very likely at isolated places over Rayalaseema and Telangana.
- ❖ **Heat Wave conditions** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Hot and Humid weather** very likely at isolated places over Andhra Pradesh, Haryana, Chandigarh & Delhi, Punjab and Tamil Nadu Puducherry & Karaikal.
- ❖ **Arabian Sea: Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail over most parts of

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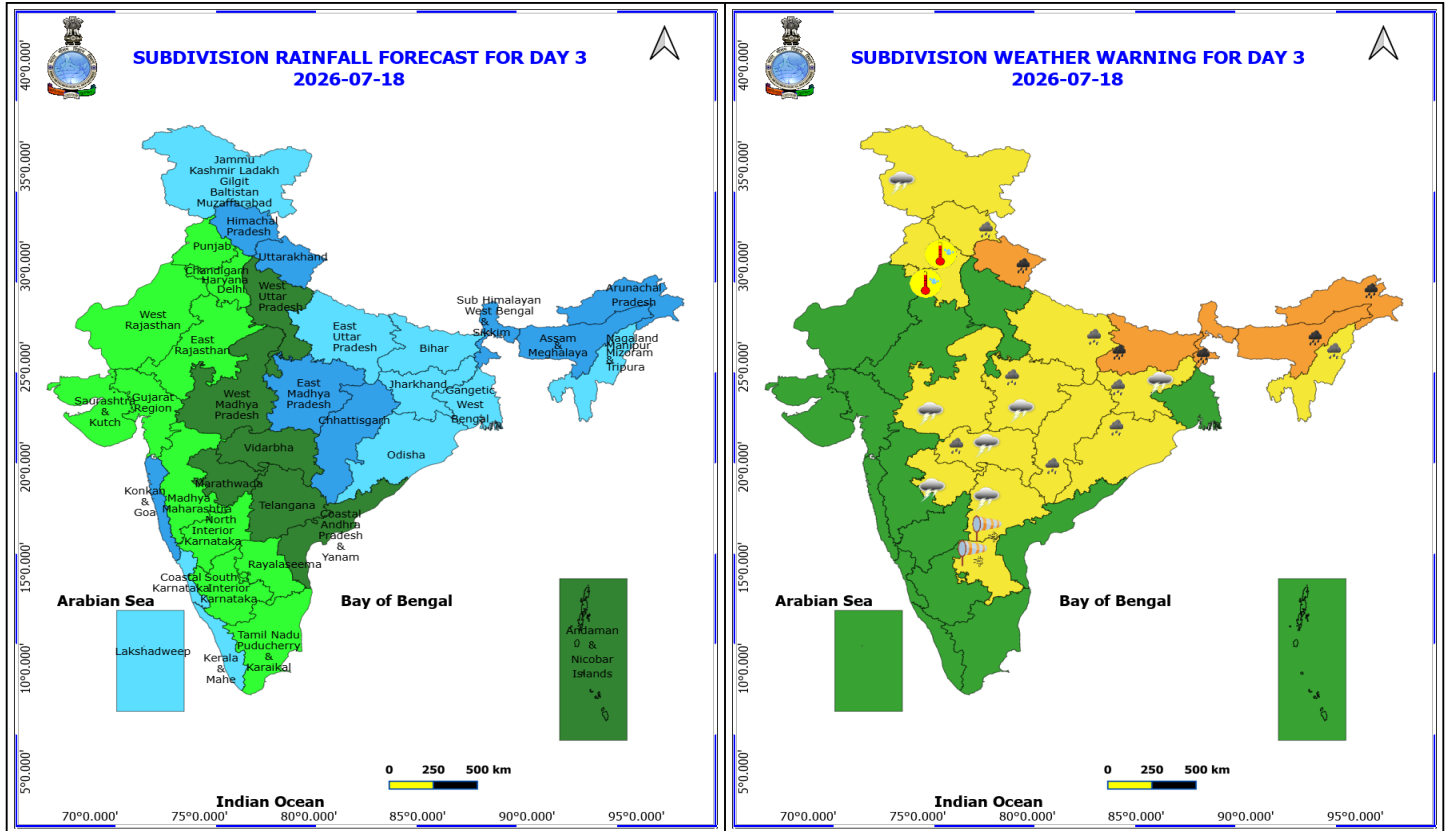
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west central adjoining few parts of northwest, and some parts of south west Arabian Sea, along and off Somalia, and Oman coasts.

❖ **Bay of Bengal: Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail over some parts of south Bay of Bengal.

❖ **Squally Weather with wind speed 40-50 kmph gusting to 60 kmph** is likely to prevail along and off Odisha, Gangetic West Bengal adjoining many parts of north and some parts of Central Bay of Bengal.



18 July (Day 3)

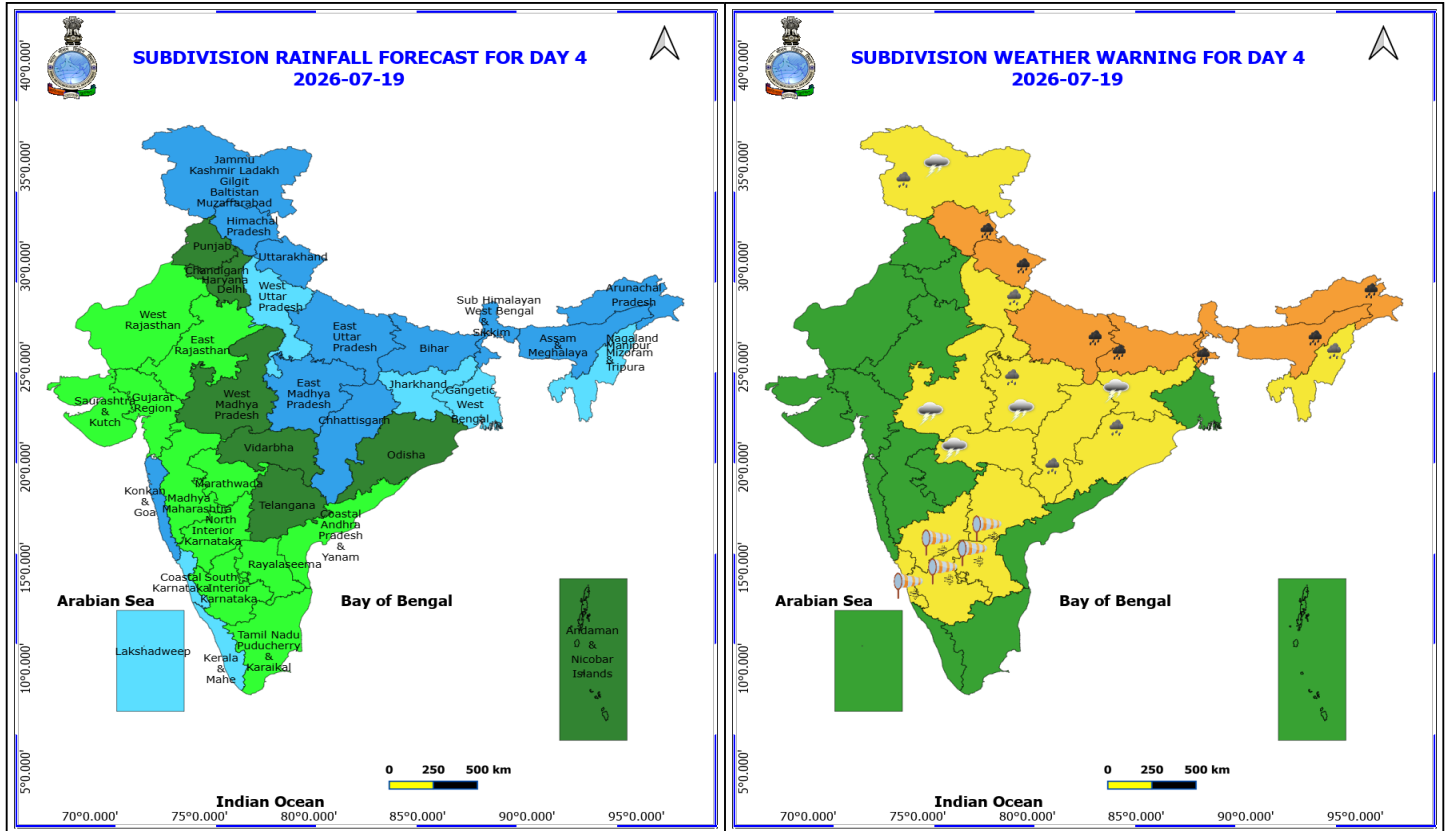
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Heavy Rainfall** very likely at isolated places over Chhattisgarh, East Madhya Pradesh, East Uttar Pradesh, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Odisha and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Madhya Pradesh, Marathwada, Telangana and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Bihar, Gangetic West Bengal, Rayalaseema and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, East Uttar Pradesh, Nagaland, Manipur, Mizoram and Tripura, North Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Strong Surface Winds** very likely at isolated places over Rayalaseema and Telangana.
- ❖ **Hot and Humid weather** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Arabian Sea: Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail over most parts of west central adjoining many parts of north and some parts of south west Arabian Sea, along and off Somalia, Oman and Gujarat Coasts.

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19 July (Day 4)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, East Uttar Pradesh, Himachal Pradesh, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Heavy Rainfall** likely at isolated places over Chhattisgarh, East Madhya Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Odisha and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Madhya Pradesh and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Bihar, Gangetic West Bengal, Karnataka, Rayalaseema, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Assam & Meghalaya, Chhattisgarh, East Uttar Pradesh, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Strong Surface Winds** likely at isolated places over Karnataka, Rayalaseema and Telangana.

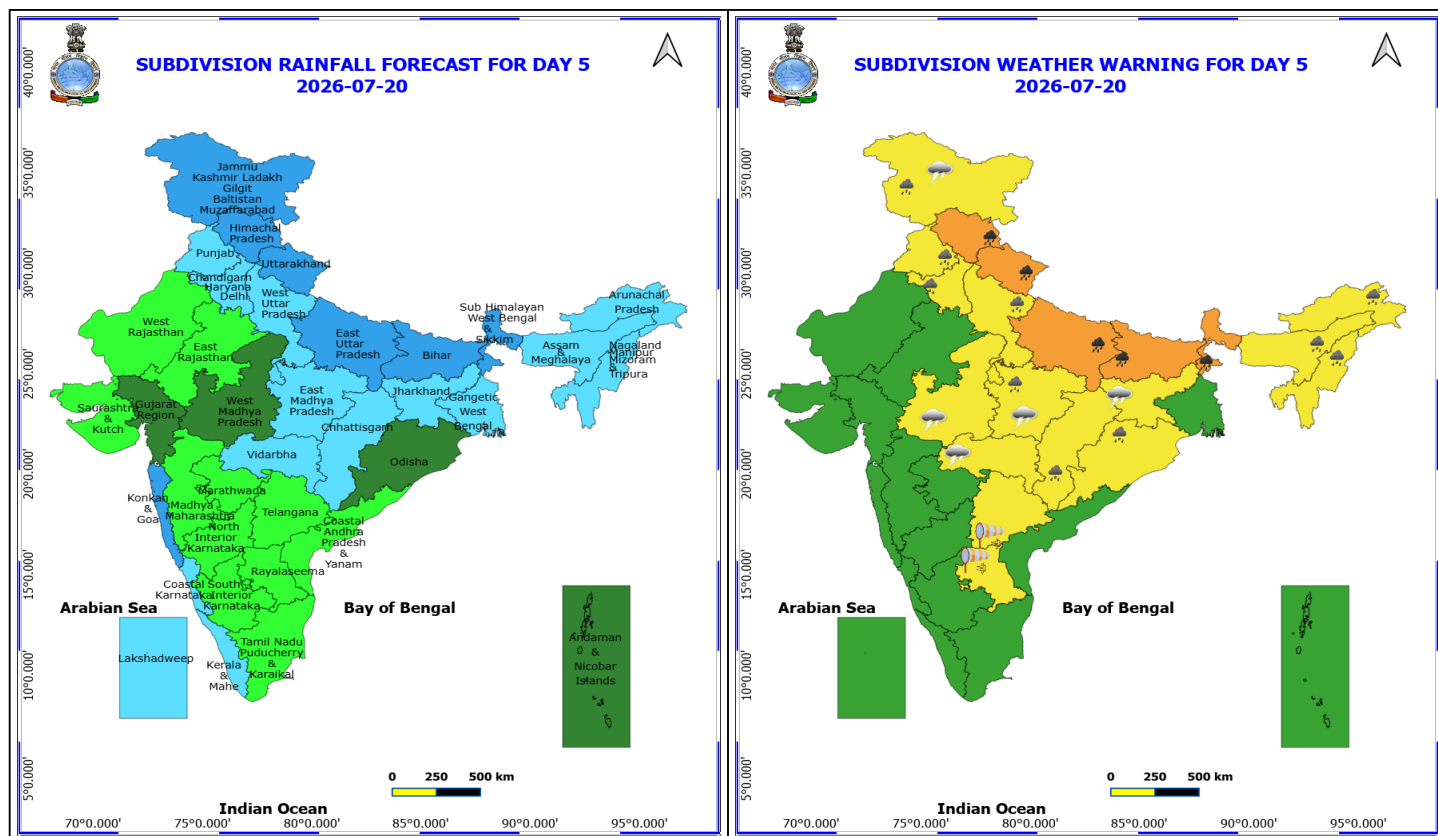
Arabian Sea: Squally wind with speed 45-55 kmph gusting to 65 kmph is likely to prevail over most parts of west central adjoining many parts of north and some parts of south west Arabian Sea, along and off Somalia, Oman, Gujarat and North Maharashtra Coasts.

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20 July (Day 5)

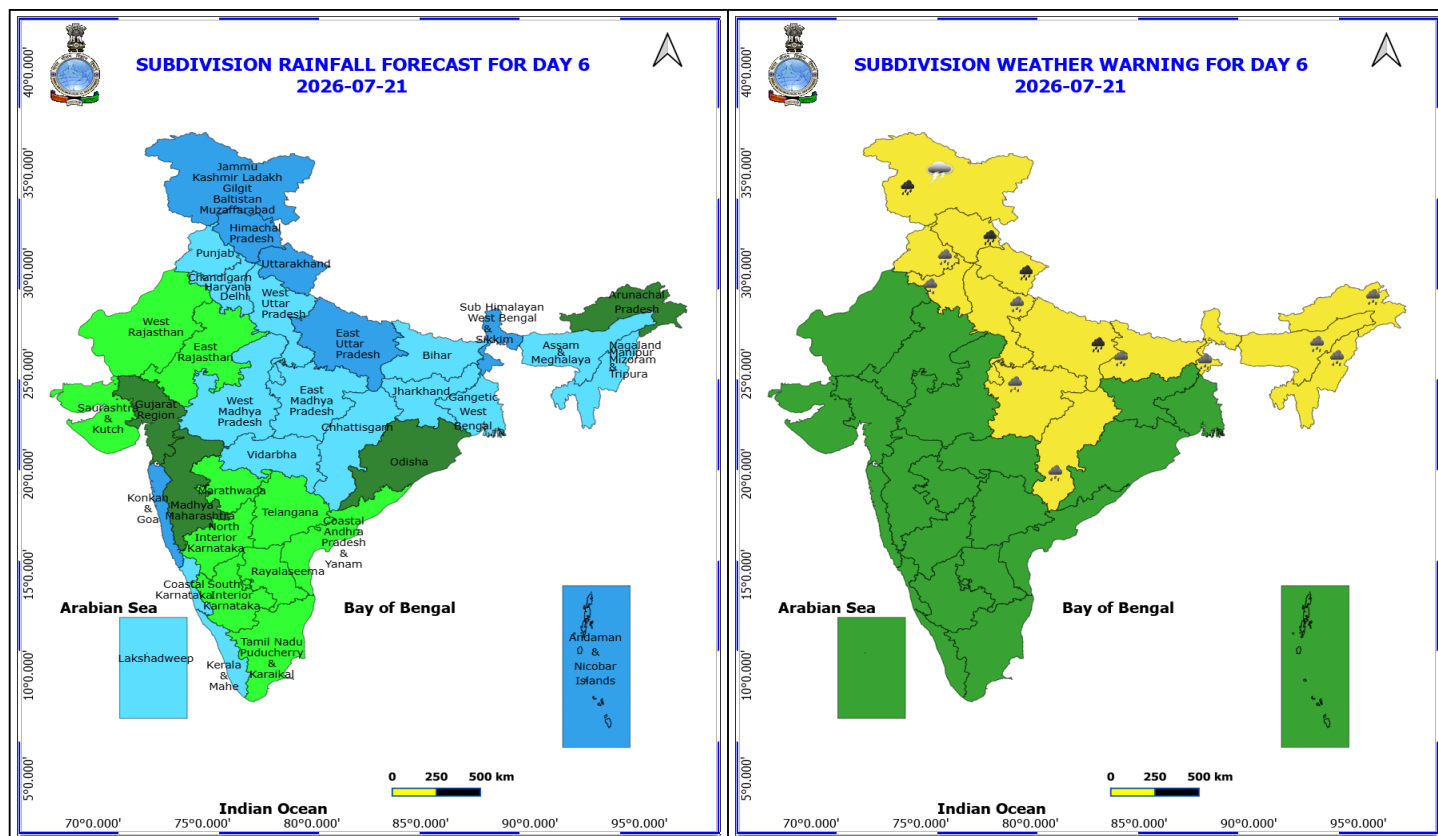
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Bihar, East Uttar Pradesh, Himachal Pradesh, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, East Madhya Pradesh, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Madhya Pradesh and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Bihar, Gangetic West Bengal, Rajasthan, Rayalaseema, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Assam & Meghalaya, Chhattisgarh, East Uttar Pradesh, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Strong Surface Winds** likely at isolated places over Rayalaseema and Telangana.
- ❖ **Arabian Sea: Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail over most parts of west central adjoining many parts of north and some parts of south west Arabian Sea, along and off Somalia, Oman and Gujarat Coasts.

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21 July (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over East Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, East Madhya Pradesh, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Punjab, Sub Himalayan West Bengal & Sikkim and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Bihar and Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over East Uttar Pradesh, Sub Himalayan West Bengal & Sikkim and Uttarakhand.

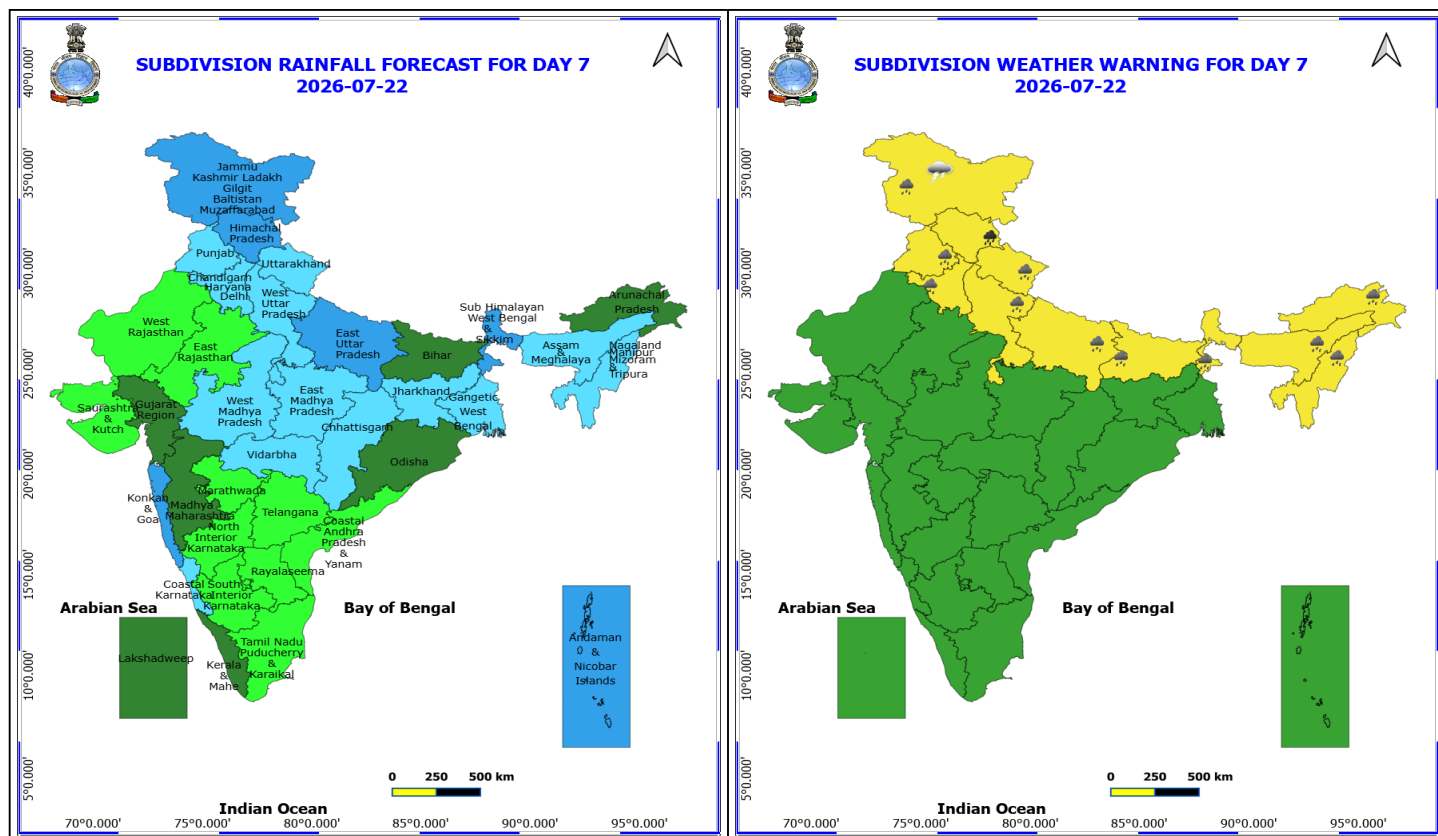
No Fishermen Warning

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22 July (Day 7)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Himachal Pradesh.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Punjab, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Bihar and Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over East Uttar Pradesh, Sub Himalayan West Bengal & Sikkim and Uttarakhand.

No Fishermen Warning



Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	16- Jul	17- Jul	18- Jul	19- Jul	20- Jul	21- Jul	22- Jul
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	SCT	SCT	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	WS	WS	FWS	SCT	SCT
3	ASSAM & MEHGHALAYA	FWS	FWS	WS	WS	FWS	FWS	FWS
4	N. M. M. & T.	FWS	FWS	FWS	FWS	FWS	FWS	FWS
5	S.H. WEST BENGAL & SIKKIM	FWS	WS	WS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	WS	WS	FWS	FWS	FWS	FWS	FWS
7	ODISHA	WS	WS	FWS	SCT	SCT	SCT	SCT
8	JHARKHAND	FWS	FWS	FWS	FWS	FWS	FWS	FWS
9	BIHAR	SCT	FWS	FWS	WS	WS	FWS	SCT
10	EAST UTTAR PRADESH	SCT	SCT	FWS	WS	WS	WS	WS
11	WEST UTTAR PRADESH	ISOL	ISOL	SCT	FWS	FWS	FWS	FWS
12	UTTARAKHAND	FWS	WS	WS	WS	WS	WS	FWS
13	HARYANA, CHD & DELHI	ISOL	ISOL	ISOL	SCT	FWS	FWS	FWS
14	PUNJAB	ISOL	ISOL	ISOL	SCT	FWS	FWS	FWS
15	HIMACHAL PRADESH	ISOL	SCT	WS	WS	WS	WS	WS
16	JAMMU AND KASHMIR AND LADAKH	SCT	SCT	FWS	WS	WS	WS	WS
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL	ISOL	SCT	SCT	SCT	FWS	FWS
20	EAST MADHYA PRADESH	SCT	FWS	WS	WS	FWS	FWS	FWS
21	GUJRAT REGION	SCT	ISOL	ISOL	ISOL	SCT	SCT	SCT
22	SAURASHTRA & KUTCH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	SCT	SCT	ISOL	ISOL	ISOL	SCT	SCT
25	MARATHWADA	SCT	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	SCT	SCT	SCT	SCT	FWS	FWS	FWS
27	CHATTISGARH	FWS	WS	WS	WS	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	SCT	SCT	SCT	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	SCT	FWS	FWS	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	SCT	FWS	FWS	FWS	FWS	FWS	SCT
36	LAKSHDWEEP	SCT	SCT	FWS	FWS	FWS	FWS	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 2026-07-15

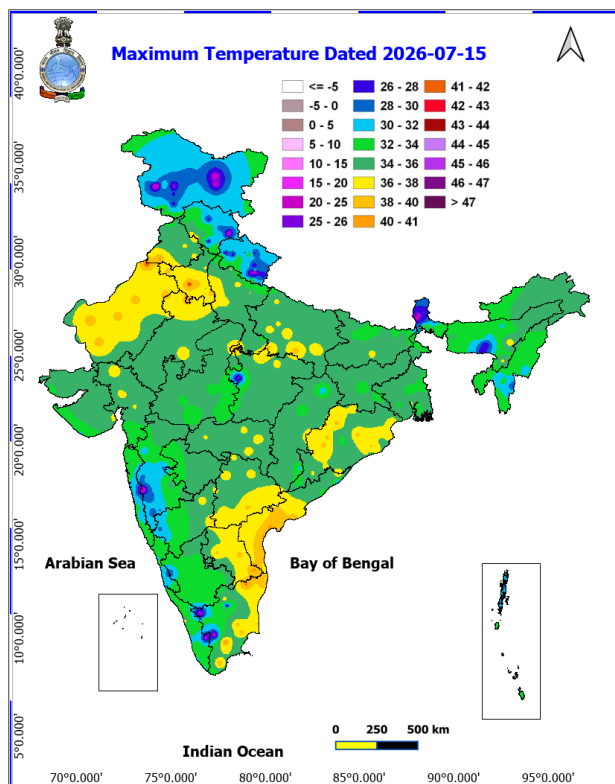


Fig. 2: Departure of Maximum Temp. Dated 2026-07-15

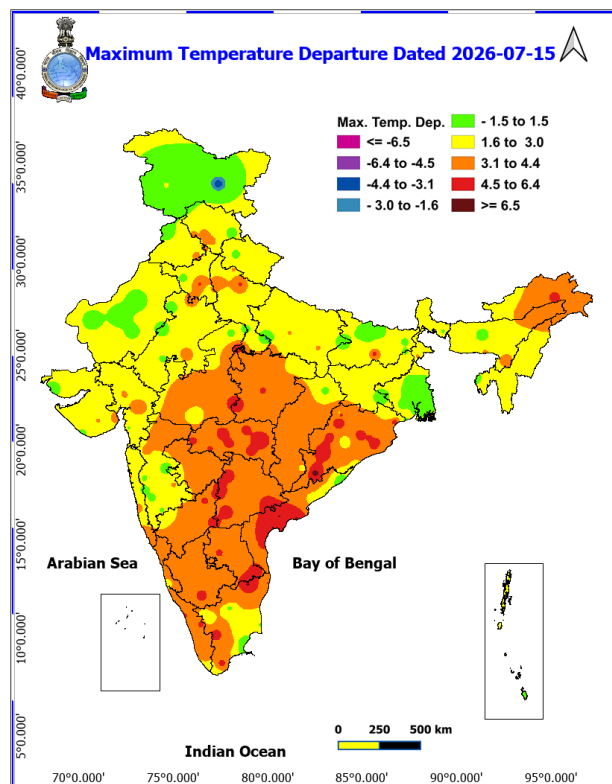


Fig. 3: Minimum Temperatures Dated 2026-07-16

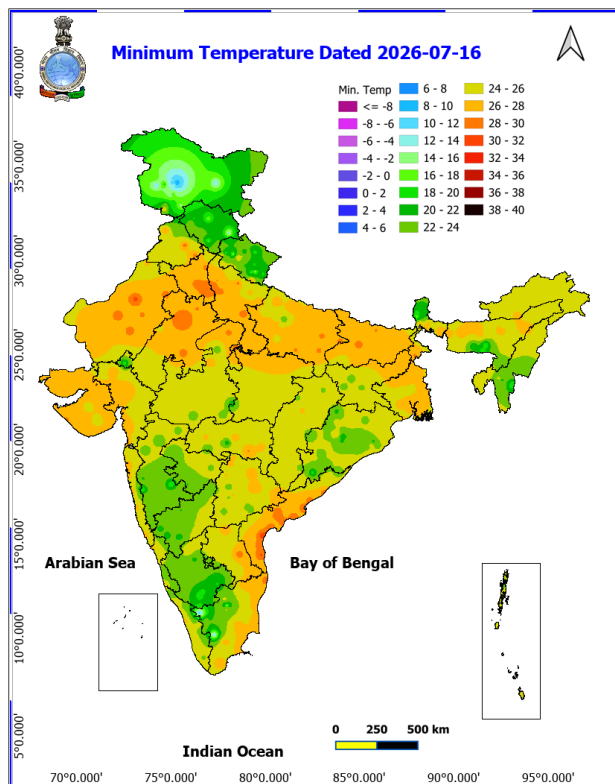
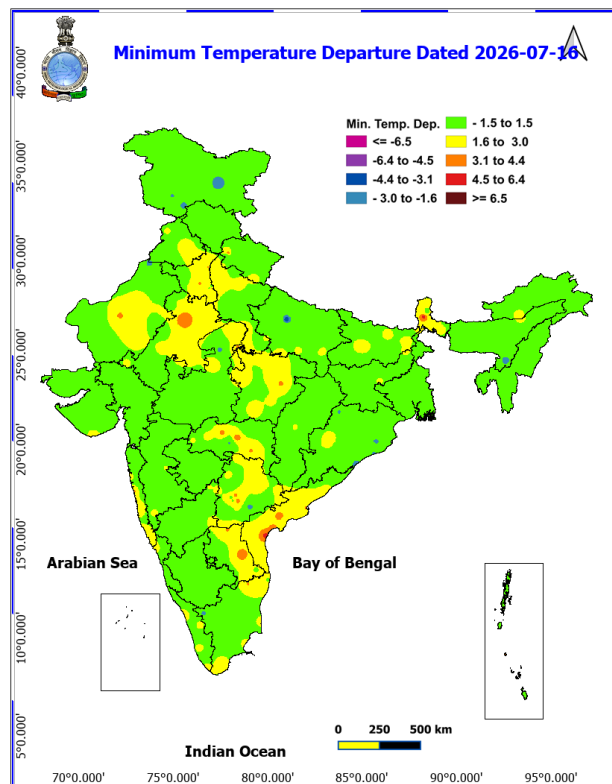
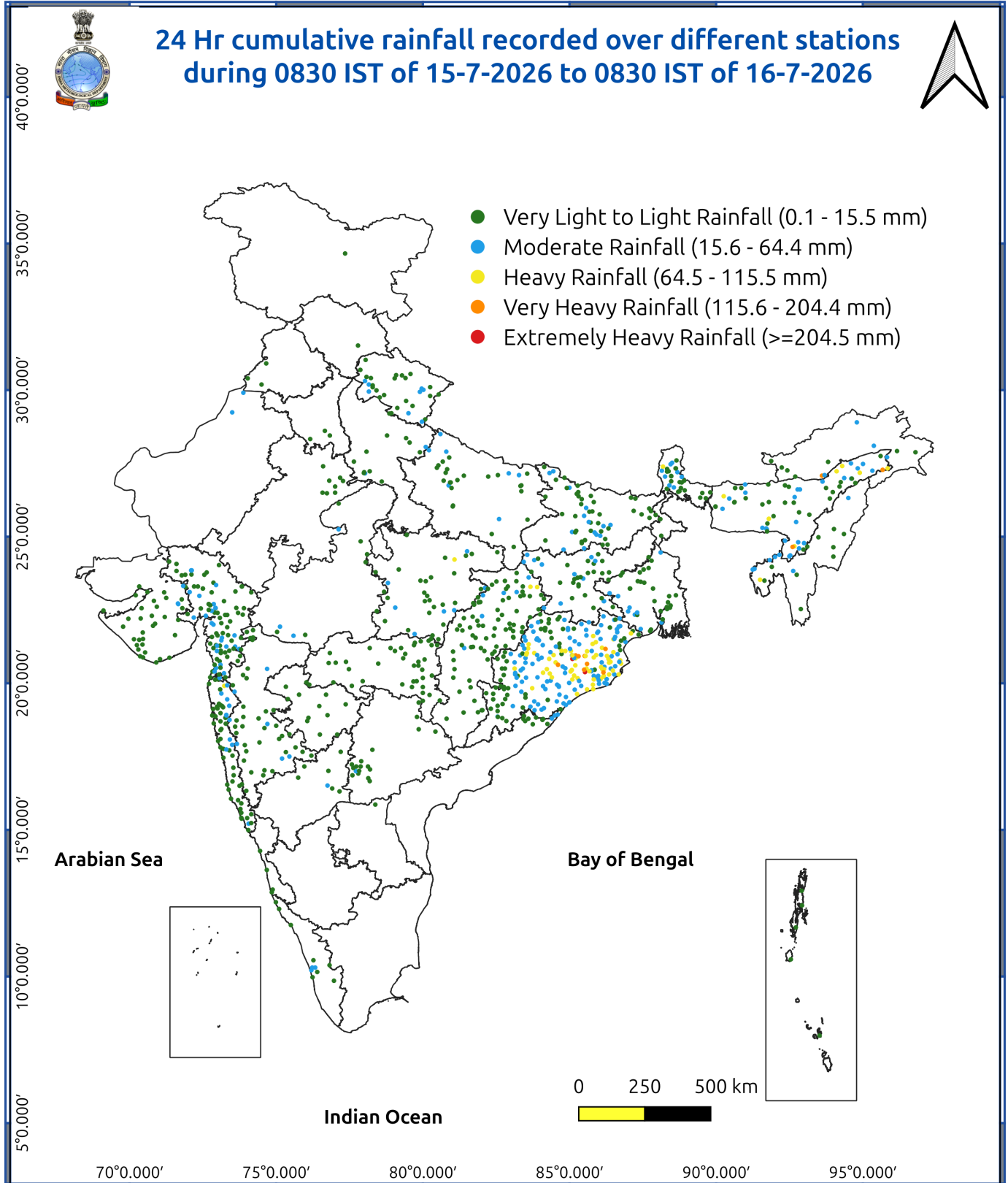


Fig. 4: Departure of Minimum Temp. Dated 2026-07-16





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Impact and Actions

Impact Expected & Action Suggested due to heavy/very heavy/extremely heavy rainfall

- Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Odisha on 16th July.

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 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.

Impact expected and action suggested due to Heat wave conditions:

- **Heat wave** conditions very likely in isolated pockets over Coastal Andhra Pradesh & Yanam and Rayalaseema on 16th July; Tamil Nadu, Puducherry & Karaikal during 16th-17th July.

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 Heavy Rainfall

In **Odisha**, maintain continuous drainage and keep field channels clear to prevent prolonged waterlogging in rice, maize, pulses, oilseed and vegetable fields. Strengthen field bunds and postpone irrigation, fertilizer and plant protection operations until field conditions become suitable.

In **Assam**, maintain continuous and effective drainage of excess rainwater from sugarcane, soybean, pigeon pea, jute, sesame fields and fruit orchards to prevent prolonged waterlogging. Harvest mature crops wherever field conditions

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permit.

In **Meghalaya**, maintain effective drainage in rice nursery beds and fields of maize, cowpea, okra and ginger. Strengthen nursery bunds and field channels to prevent runoff, seedling washout and waterlogging.

In **Chhattisgarh**, maintain continuous drainage in rice nurseries and standing fields of maize, soybean, pigeon pea and minor millets to prevent prolonged waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.

In **Arunachal Pradesh**, ensure continuous drainage of excess rainwater from rice, maize, soybean and finger millet fields to prevent prolonged waterlogging.

In **Nagaland, Manipur, Mizoram and Tripura** ensure continuous and effective drainage and remove any accumulated rainwater from soybean, black gram, ginger, turmeric, cole crop and vegetable fields to prevent residual waterlogging.

In **Sikkim**, ensure proper drainage in rice nurseries and standing crop fields to prevent waterlogging.

In **West Bengal**, ensure continuous and effective drainage in rice nurseries, jute, ginger and vegetable fields to prevent prolonged waterlogging. Inspect and strengthen bunds around rice nurseries and harvest mature tea leaves and vegetables wherever field conditions permit.

In **Jharkhand**, ensure proper drainage in standing crop fields to prevent waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.

In **Bihar**, ensure continuous drainage in rice, maize, sesame and pigeon pea fields to prevent prolonged waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.

In **Uttarakhand**, postpone sowing of groundnut, soybean and maize. Ensure proper drainage in rice, tomato and chilli fields to prevent waterlogging. Harvest mature tomato only during rain-free periods and continue rice transplanting wherever field conditions permit.

In **Himachal Pradesh**, ensure proper drainage in maize, finger millet, cucurbit, tomato and capsicum fields to prevent waterlogging. Harvest mature crops wherever field conditions permit.

In **West Uttar Pradesh**, ensure proper drainage in rice, maize, sesame and pigeon pea fields to prevent waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.

Agromet advisories for likely impact of High temperatures/ Heat Waves

In **Tamil Nadu, Coastal Andhra Pradesh and Rayalaseema**, maintain adequate soil moisture in standing crops through light and need-based irrigation to reduce the adverse effects of heat wave and hot & humid conditions.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

In **Arunachal Pradesh, Assam, Meghalaya, Nagaland, Manipur, Mizoram, Sikkim, West Bengal, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Tamil Nadu, Kerala and Coastal Andhra Pradesh** post-pone fertilizer application and other field activities.

In **Telengana and Rayalaseema and Coastal Andhra Pradesh** provide staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested

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crops securely and cover them to minimize the risk of displacement from strong surface winds.

Livestock / Poultry / Fisheries

Keep the animals inside the shed during heavy rainfall and provide them balanced feed.

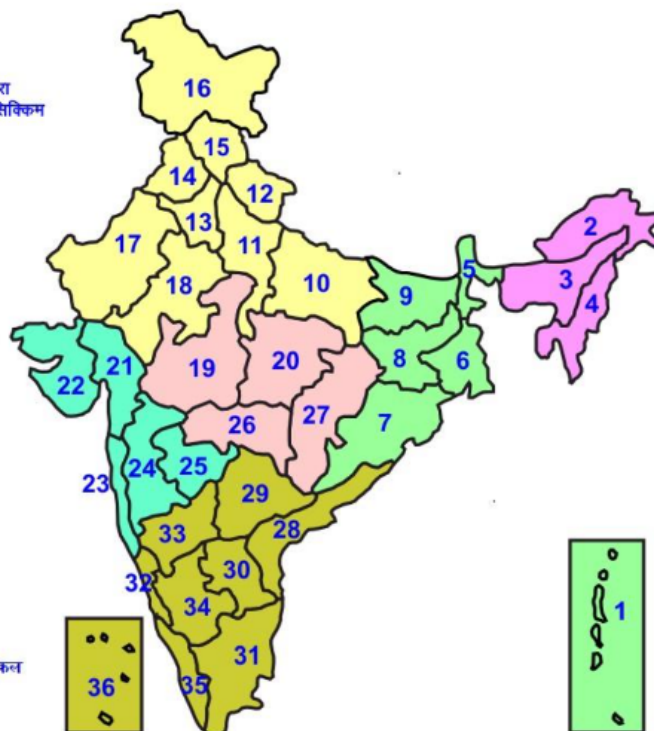
Store the feed and fodder in a safe place to prevent spoilage.

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 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

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

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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



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°C to 6.4°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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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 atleast 1 minute.

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



Effect of various waves in the sea over specific area

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



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

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

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