

2025-07-18

Time of Issue: 13:49:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Northwest India:

- **Extremely heavy rainfall ( $\geq 21$  cm)** very likely at isolated places over Rajasthan on 18<sup>th</sup> and Uttarakhand on 20<sup>th</sup> & 21<sup>st</sup> July.
- Isolated **heavy rainfall** likely over Himachal Pradesh, Uttarakhand during 18<sup>th</sup>-24<sup>th</sup>; West Uttar Pradesh during 18<sup>th</sup>-22<sup>nd</sup>; East Uttar Pradesh on 21<sup>st</sup>; Jammu & Kashmir during 20<sup>th</sup>-23<sup>rd</sup>; Punjab, Haryana during 20<sup>th</sup>-22<sup>nd</sup>; Rajasthan during 18<sup>th</sup>-20<sup>th</sup> July with **very heavy rainfall over Rajasthan on 19<sup>th</sup>; Uttarakhand during 20<sup>th</sup>-22<sup>nd</sup>; West Uttar Pradesh on 18<sup>th</sup> & 21<sup>st</sup> and Himachal Pradesh during 21<sup>st</sup>-23<sup>rd</sup> July.**
- Light/moderate rainfall at most/many places accompanied with thunderstorm, lightning likely over western Himalayan region and some/many places over the plains during next 7 days.

#### South Peninsular India:

- **Extremely heavy rainfall ( $\geq 21$  cm)** very likely at isolated places over Kerala during 18<sup>th</sup>-20<sup>th</sup> and Coastal Karnataka on 18<sup>th</sup> July.
- Isolated **heavy to very heavy rainfall** likely over Kerala & Mahe, Coastal and South Interior Karnataka during 18<sup>th</sup>-24<sup>th</sup>; Tamil Nadu during 18<sup>th</sup>-22<sup>nd</sup> July; Coastal Andhra Pradesh & Yanam on 18<sup>th</sup> & 19<sup>th</sup> July; isolated **heavy rainfall** over Coastal Andhra Pradesh & Yanam, north Interior Karnataka, Telangana during 18<sup>th</sup>-23<sup>rd</sup>; Lakshadweep on 19<sup>th</sup> & 20<sup>th</sup>; Rayalaseema during 18<sup>th</sup>-20<sup>th</sup> July.
- **Strong surface winds** (speed reaching 40-50 kmph) very likely over South Peninsular India during next 5 days.
- Light/moderate rainfall at many/some places over Kerala & Mahe, Lakshadweep, Karnataka, Rayalaseema; isolated to scattered rainfall over Coastal Andhra Pradesh & Yanam, Telangana during next 7 days.

#### East & Central India:

- **Extremely heavy rainfall ( $\geq 21$  cm)** very likely at isolated places over West Madhya Pradesh on 18<sup>th</sup> July.
- Isolated **heavy rainfall** very likely to continue over Madhya Pradesh on 18<sup>th</sup> & 19<sup>th</sup> and during 21<sup>st</sup>-23<sup>rd</sup>; Odisha, Chhattisgarh during 19<sup>th</sup> -23<sup>rd</sup>; Vidarbha during 22<sup>nd</sup>-24<sup>th</sup>; Gangetic West Bengal, Jharkhand on 23<sup>rd</sup> & 24<sup>th</sup>; Bihar during 20<sup>th</sup>-22<sup>nd</sup>; Sub-Himalayan West Bengal & Sikkim during 18<sup>th</sup>-21<sup>st</sup> July **with very heavy rainfall over East Madhya Pradesh on 18<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim on 19<sup>th</sup> & 20<sup>th</sup> and Odisha on 24<sup>th</sup> July.**
- Light/moderate rainfall at most/many places accompanied with thunderstorm & lightning likely over the region during next 7 days.

#### West India:

- **Heavy rainfall** likely at isolated places over Konkan & Goa, Ghat areas of Madhya Maharashtra during 18<sup>th</sup>-24<sup>th</sup>; Marathwada, north Gujarat on 18<sup>th</sup> July with **very heavy rainfall** over Konkan & Goa on 20<sup>th</sup>, 21<sup>st</sup>, 24<sup>th</sup> and Ghat areas of Madhya Maharashtra on 18<sup>th</sup>, 23<sup>rd</sup> & 24<sup>th</sup> July.
- Light/moderate rainfall at many/some places very likely over the region during next 5 days.

#### Northeast India:

- Light/moderate rainfall at many places accompanied with **thunderstorm, lightning** likely to continue over Northeast India during next 7 days.
- Isolated **heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland & Tripura during 18<sup>th</sup>-22<sup>nd</sup> with **very heavy rainfall** over Meghalaya on 19<sup>th</sup> July.

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

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **East Madhya Pradesh:** Chhatrapur-aws (dist Chhatrapur) 31; Gaurihar (dist Chhatrapur) 27; Palera (dist Tikamgarh) 23; Lavkushnagar (dist Chhatrapur) 19; Rajnagar (dist Chhatrapur) 18; Ajaigarh (dist Panna) 17; Khajuraho AP (dist Chhatrapur) 15; Satna (raghurajnagar) (dist Satna), Sohawal (dist Satna), Birsingpur (dist Satna) 14 Each; Nowgong (dist Chhatrapur), Amarpatan (dist Satna), Jatara (dist Tikamgarh), Badamalhera (dist Chhatrapur), Mohangarh (dist Tikamgarh) 13 Each; Sirmaur (dist Rewa) 12; Panna-aws (dist Panna), Nagode (dist Satna), Majhgaon (dist Satna), Khargapur (dist Tikamgarh) 11 Each; Devendranagar (dist Panna), Naigarhi (dist Rewa) 10 Each; Tikamgarh-aws (dist Tikamgarh), Rampur Baghelan (dist Satna), Gonour (dist Panna), Raipurkarchuliyan (dist Rewa), Mangawan (dist Rewa), Amanganj (dist Panna), Bijawar (dist Chhatrapur) 9 Each; Hanumana (dist Rewa), Pawai (dist Panna), Baldevgarh (dist Tikamgarh), Teonthar (dist Rewa), Semariya (dist Rewa), Bilhari (dist Katni), Badagaon Dhasan (dist Tikamgarh) 7 Each; **West Madhya Pradesh:** Bhanpura (dist Mandsaur) 18; Datia-aws (dist Datia) 13; Indergarh (dist Datia) 12; Bhandar (dist Datia) 10; Seodha(seondha) (dist Datia), Mau (dist Bhind) 8 Each; Guna-aws (dist Guna), Khilchipur (dist Rajgarh) 7 Each; **East Rajasthan:** Sangod (dist Kota) 17; Mangrol (dist Baran), Atru SR (dist Baran), Mandana SR (dist Kota), Ajmer (dist Ajmer), Nasirabad (dist Ajmer) 8 Each; Ajmer Tehsil SR (dist Ajmer) 7; **Coastal Karnataka:** Manki (dist Uttara Kannada) 16; Honavar (dist Uttara Kannada), Shirali PTO (dist Uttara Kannada), Gersoppa (dist Uttara Kannada) 9 Each; Kadra (dist Uttara Kannada) 8; Castle Rock (dist Uttara Kannada), Kumta (dist Uttara Kannada) 7 Each; **Sub Himalayan West Bengal & Sikkim:** Buxaduar (dist Alipurduar) 13; Karballa Tea Estate (dist Jalpaiguri), Leesh River Tea Garden (dist Jalpaiguri), Moraghat Tea Estate (dist Jalpaiguri) 11 Each; Beech Tea Garden (dist Alipurduar) 10; Chengmari/Diana (dist Jalpaiguri), Gandrapara Tea Garden (dist Jalpaiguri), Jiti T.e. (dist Jalpaiguri), Zurrantee T.e (dist Jalpaiguri) 9 Each; Banarhat High School (dist Jalpaiguri), Palashbari Tea Estate (dist Jalpaiguri), Fagu Tea Estate (dist Jalpaiguri) 8 Each; Ghish (dist Jalpaiguri), Jaybirpara Tea Estate (dist Alipurduar) 7 Each; **Telangana:** Bala Nagar (dist Mahabubnagar) 12; Shadnagar (dist Rangareddy) 11; Shadnagar(ARG) (dist Rangareddy) 10; Kollapur (dist Nagarkurnool) 9; Marriguda (dist Nalgonda), Mattampally (dist Suryapet) 7 Each; **Coastal Andhra Pradesh & Yanam:** Yerragondapalem (dist Prakasam) 12; Guntur (dist Guntur) 9; **Odisha:** Kotraguda (dist Rayagada) 12; Padia (dist Malkangiri) 10; Phulbani (dist Kandhamal), Rajgangpur (dist Sundargarh) 7 Each; **West Rajasthan:** Pilibanga SR (dist Hanumangarh) 11; Bhadra (dist Hanumangarh) 7; **Madhya Maharashtra:** Gaganbawada (dist Kolhapur) 11; **Tamil Nadu, Puducherry & Karaikal:** Maduranthagam (dist Chengalpattu) 9; Tiruttani (dist Tiruvallur), Gingee (dist Villupuram) 7 Each; **Rayalaseema:** Badvel (dist Ysr District) 9; Srisailam (dist Nandyal) 8; Pakala (dist Tirupati) 7; **Bihar:** Sheikhpura (dist Sheikhpura), Fatuha (dist Patna) 9 Each; Barbiga (dist Sheikhpura) 8; **Arunachal Pradesh:** Deomali AWS (dist Tirap) 9; **Chhattisgarh:** Sukma (dist Sukma) 8; **Kerala & Mahe:** Kudulu (dist Kasargod) 7; **North Interior Karnataka:** Kakkeri (dist Yadgir) 7; **Konkan & Goa:** Quepem (dist South Goa) 7.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Extremely heavy rain** at isolated places over East Madhya Pradesh. **Heavy to very heavy rain** at isolated places over Sub Himalayan West Bengal & Sikkim, Odisha, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Coastal Karnataka. **Heavy rain** at isolated places over Arunachal Pradesh, Bihar, West Rajasthan, Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and Kerala & Mahe.

❖ **Minimum Temperature Departures (as on 18-07-2025):** **markedly above normal(> 5.1°C)** at most places over Himachal Pradesh; at few places over Assam & Meghalaya; at isolated places over Sub Himalayan West Bengal & Sikkim, East Uttar Pradesh, West Uttar Pradesh, West Madhya Pradesh, Gujarat Region and Saurashtra & Kutch. **appreciably above normal(3.1°C to 5.0°C)** at few places over East Madhya Pradesh; at isolated places over Gangetic West Bengal, Odisha, Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan and Madhya Maharashtra. **above normal(1.6°C to 3.0°C)** at many places over Konkan & Goa; at few places over

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Marathwada, Vidarbha and Lakshadweep; at isolated places over Andaman & Nicobar Islands, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, East Rajasthan, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Chhattisgarh and Kerala & Mahe; at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Rayalaseema, Coastal Karnataka and South Interior Karnataka. **The lowest minimum temperature** of 19.0°C is reported at SHIMOGA (KARNATAKA) over the Plains of India.

❖ **Maximum Temperature Departures (as on 17-07-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana. **appreciably above normal(3.1°C to 5.0°C)** at few places over Arunachal Pradesh; at isolated places over Sub Himalayan West Bengal & Sikkim, Odisha and Vidarbha. **above normal(1.6°C to 3.0°C)** at many places over Rayalaseema; at few places over Gujarat Region, Konkan & Goa and North Interior Karnataka; at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal. **near normal(-1.5°C to 1.5°C)** at many places over Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka; at most places over Bihar, Uttarakhand, Marathwada, South Interior Karnataka and Lakshadweep; at few places over East Uttar Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, West Rajasthan, West Madhya Pradesh and Kerala & Mahe; at isolated places over East Madhya Pradesh. **The highest maximum temperature** of 40.0°C is reported at MADURAI (A) (TAMIL NADU).

❖ **Maximum Temperature Changes (as on 17-07-2025): Markedly fall at** at isolated places over Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Uttarakhand, Himachal Pradesh, West Rajasthan and East Madhya Pradesh. **Appreciable fall at** at most places over East Rajasthan; at few places over Andaman & Nicobar Islands and West Madhya Pradesh; at isolated places over Assam & Meghalaya, West Uttar Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and Kerala & Mahe. **Appreciable rise at** at many places over Gangetic West Bengal; at most places over Odisha, Jharkhand, Haryana-Chandigarh-Delhi, Punjab, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Karnataka, South Interior Karnataka and Lakshadweep; at few places over Arunachal Pradesh, Bihar and Chhattisgarh; at isolated places over Sub Himalayan West Bengal & Sikkim and Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad.

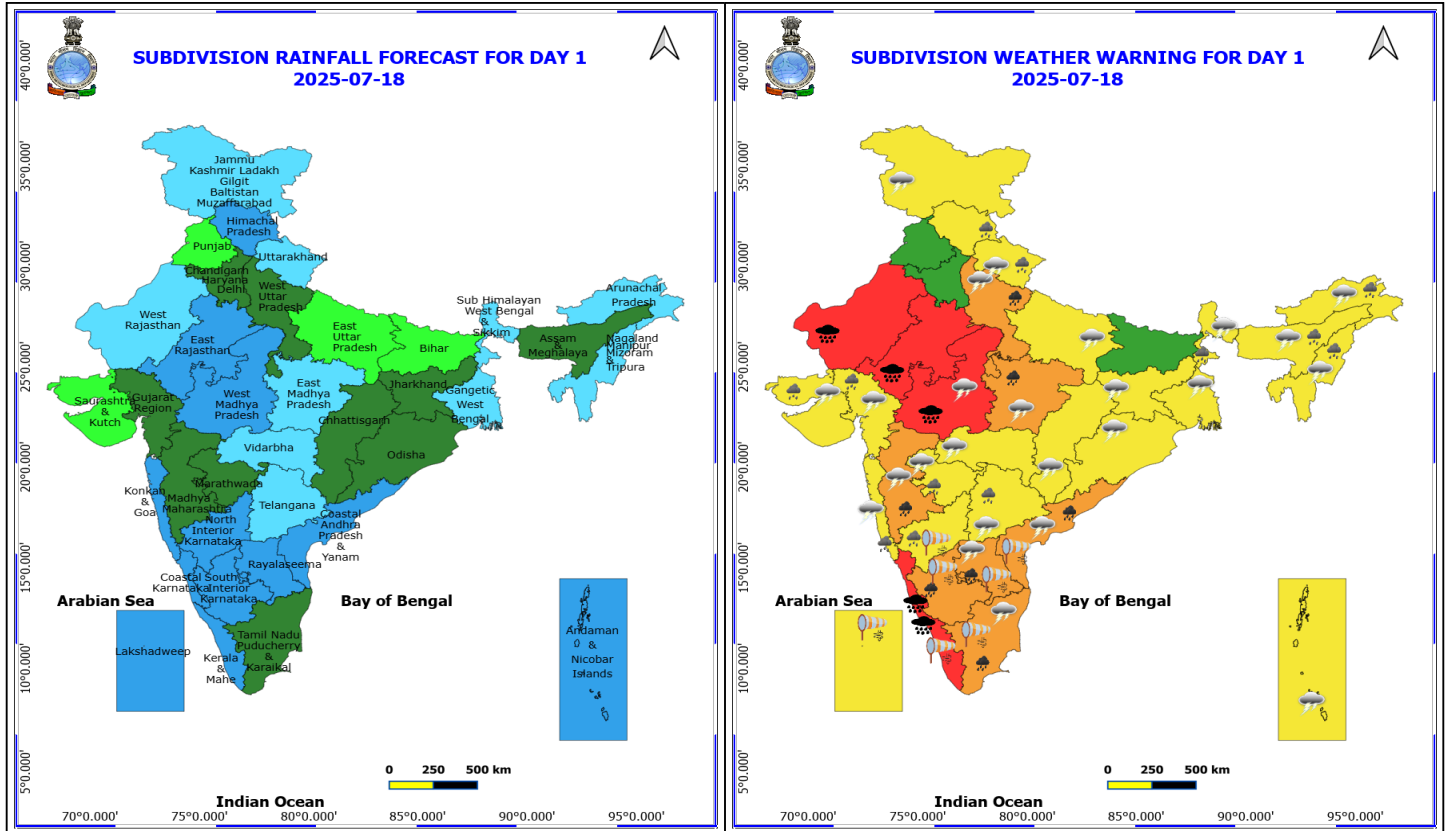
❖ **Minimum Temperature Changes (as on 18-07-2025): markedly fall at** at isolated places over Coastal Andhra Pradesh & Yanam. **Appreciable fall at** at isolated places over Odisha, West Madhya Pradesh, East Madhya Pradesh, Chhattisgarh, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. **Appreciable rise at** at most places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, Bihar, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka and Kerala & Mahe; at few places over Lakshadweep.

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

- The **Depression** over northwest Madhya Pradesh & adjoining Southwest Uttar Pradesh moved west-northwestwards with a speed of 17 kmph during past 6 hours and lay centered at 0830 hrs IST of today, the 18th July, 2025, over the same region, near latitude 26.5°N and longitude 78.6°E, 20 km southeast of Bhind, 50 km northeast of Gwalior, 80 km east-southeast of Dholpur and 100 km southeast of Agra. It is likely to move west-northwestwards across northwest Madhya Pradesh and east Rajasthan and weaken gradually into a well marked low pressure area during next 24 hours.
- The **monsoon trough** at mean sea level now passes through Bikaner, Sikar, center of **Depression** over northwest Madhya Pradesh & adjoining Southwest Uttar Pradesh, Sidhi, Daltonganj, Purulia, Contai and thence east southeastwards to northeast Bay of Bengal.
- The **upper air cyclonic circulation** over central parts of Pakistan persists and now extends upto 1.5 km above mean sea level.
- The **Western Disturbance** as a trough in middle tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 62°E to the north of Lat. 30°N.
- An **upper air cyclonic circulation** lies over northeast Assam and neighbourhood at 0.9 km above mean sea level.
- An **upper air cyclonic circulation** lies over south Coastal Andhra Pradesh and neighbourhood and extends upto 5.8 km above mean sea level tilting southwestwards with height.
- The **east-west trough** now runs roughly along Lat. 13°N between 4.5 & 5.8 km above mean sea level through the cyclonic circulation over south Coastal Andhra Pradesh.
- The **upper air cyclonic circulation** over North Interior Karnataka now lies over Madhya Maharashtra and neighbourhood at 3.1 km above mean sea level.
- A fresh **Low Pressure area** is likely to form over north Bay of Bengal around 24<sup>th</sup> July, 2025.

### Weather Outlook for subsequent 3 days

- **Fairly widespread to widespread rainfall** very likely over most parts of the country except the plains of Northwest India where isolated to scattered rainfall is likely.



## 18 July (Day 1)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Coastal Karnataka, Kerala & Mahe, Rajasthan and West Madhya Pradesh.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andhra Pradesh, East Madhya Pradesh, Madhya Maharashtra, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal and West Uttar Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Gujarat State, Himachal Pradesh, Konkan & Goa, Marathwada, Nagaland, Manipur, Mizoram and Tripura, North Interior Karnataka, Sub Himalayan West Bengal & Sikkim, Telangana and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha, Uttarakhand, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, East Madhya Pradesh, East Uttar Pradesh, Gujarat State, Konkan & Goa, Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh, Interior Karnataka, Kerala & Mahe, Lakshadweep 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, Yemen & south Oman coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral Arabian Sea, some parts of southwest Arabian Sea.

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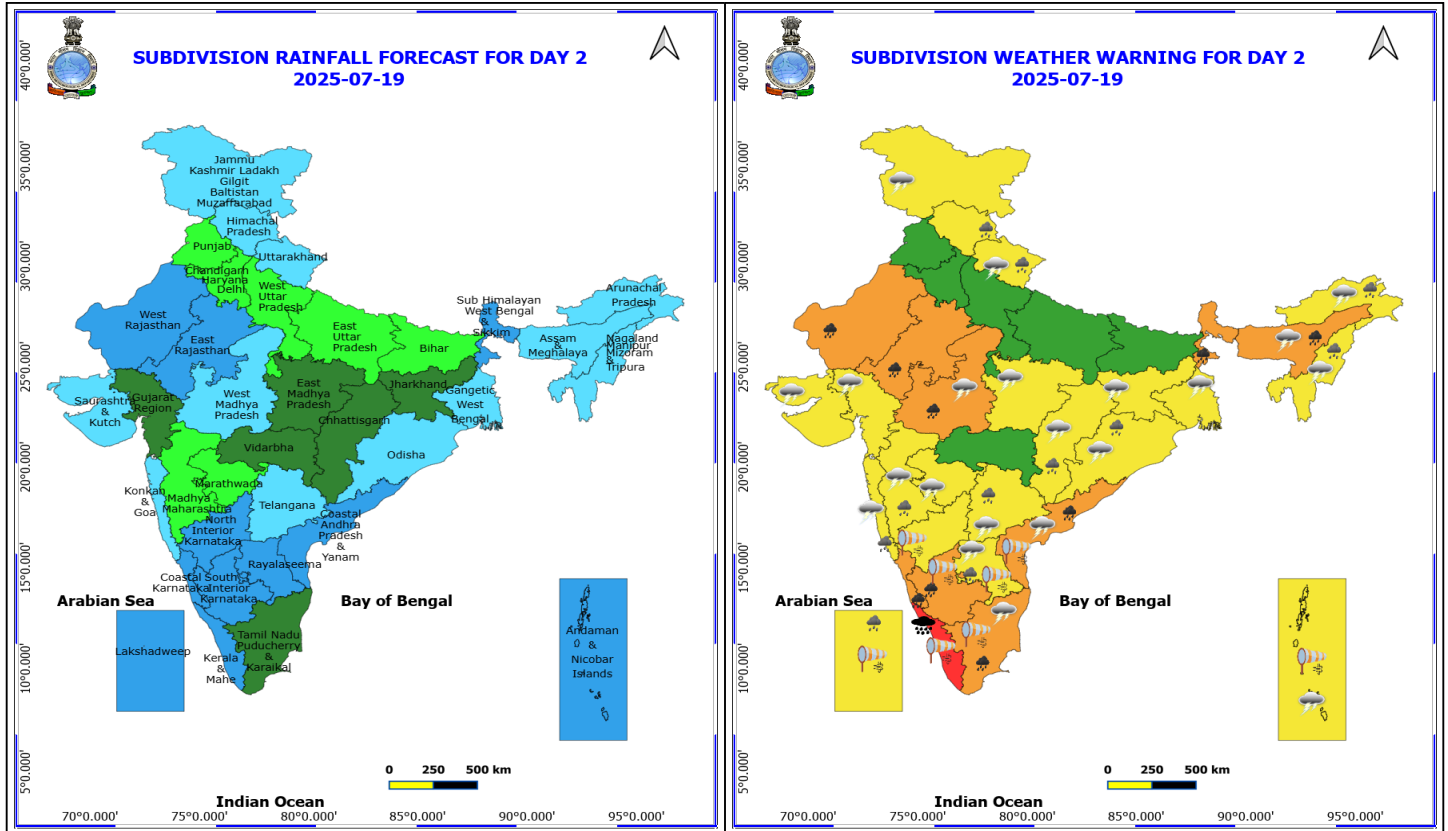
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❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over most parts of eastcentral Arabian Sea, many parts of westcentral Arabian Sea, many parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep area & adjoining Maldives area, Comorin area, most parts of south Bay of Bengal, over Gulf of Mannar, along and off Sri Lanka coast, over Andaman Sea.



## 19 July (Day 2)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Kerala & Mahe.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Coastal Andhra Pradesh, Coastal Karnataka, Rajasthan, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim, Tamil Nadu Puducherry & Karaikal and West Madhya Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Chhattisgarh, Himachal Pradesh, Konkan & Goa, Lakshadweep, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Odisha, Rayalaseema, Telangana and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha, Uttarakhand and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, East Madhya Pradesh, Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram and Tripura, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Strong Surface Winds** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Interior Karnataka, Kerala & Mahe, Lakshadweep 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, Yemen & south Oman coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral Arabian Sea, some parts of southwest Arabian Sea.

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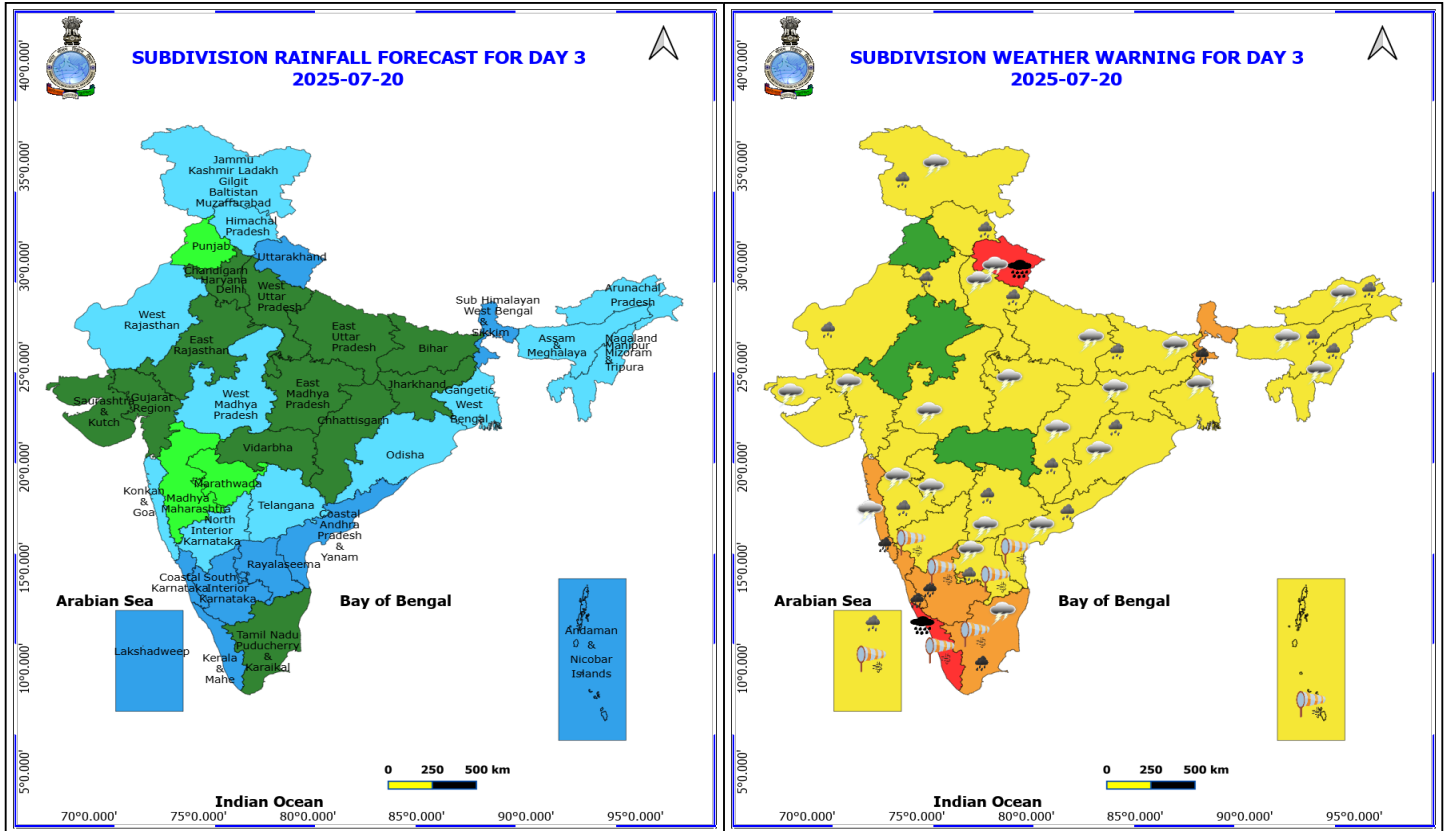
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❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over some southern parts of north Arabian Sea, most parts of eastcentral Arabian Sea, many parts of westcentral Arabian Sea, many parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep, Maldives, Comorin areas, many parts of south Bay of Bengal, over Gulf of Mannar, along and off Sri Lanka coast, over Andaman Sea.



## 20 July (Day 3)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Uttarakhand.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Coastal Karnataka, Konkan & Goa, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Lakshadweep, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Odisha, Telangana, West Rajasthan and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Gangetic West Bengal, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Gujarat State, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Marathwada, Nagaland, Manipur, Mizoram and Tripura, Tamil Nadu Puducherry & Karaikal, Telangana and Uttar Pradesh.
- ❖ **Strong Surface Winds** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Interior Karnataka, Kerala & Mahe, Lakshadweep 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, Yemen & south Oman coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral Arabian Sea, some parts of southwest Arabian Sea.

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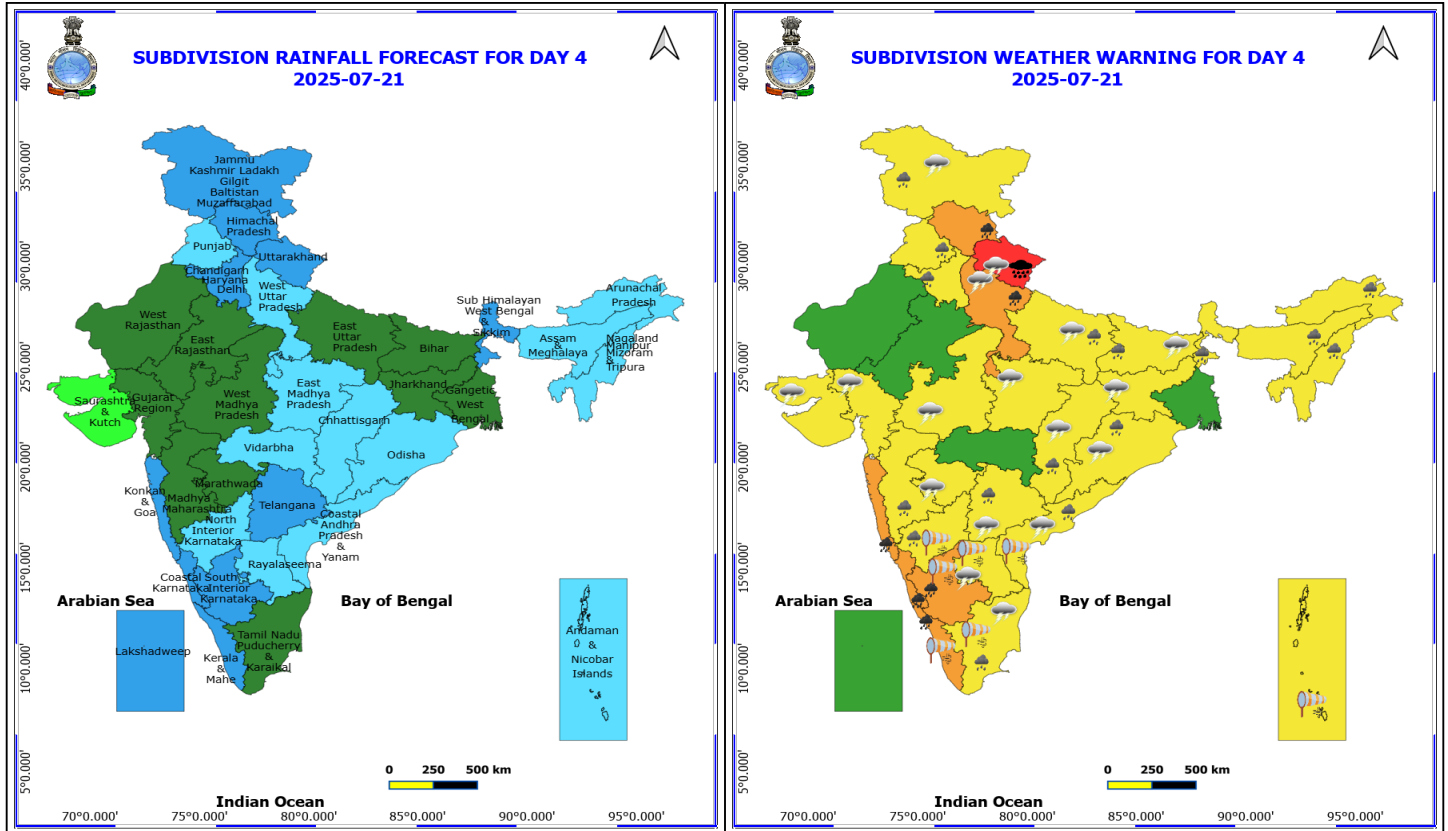
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❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over most parts of eastcentral Arabian Sea, many parts of westcentral Arabian Sea, many parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep, Maldives, Comorin areas, most parts of south Bay of Bengal & adjoining central Bay of Bengal, over Gulf of Mannar, along and off Sri Lanka coast, over Andaman Sea.



## 21 July (Day 4)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** likely at isolated places over Uttarakhand.
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Karnataka, Himachal Pradesh, Kerala & Mahe, Konkan & Goa, South Interior Karnataka and West Uttar Pradesh.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Coastal Andhra Pradesh, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, North Interior Karnataka, Odisha, Punjab, Sub Himalayan West Bengal & Sikkim, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Gujarat State, Madhya Pradesh, Marathwada, Tamil Nadu Puducherry & Karaikal, Telangana and Uttar Pradesh.
- ❖ **Strong Surface Winds** likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Interior Karnataka, Kerala & Mahe 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, Yemen & south Oman coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral Arabian Sea, some parts of southwest Arabian Sea.
- ❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over most parts of eastcentral Arabian Sea, many parts of westcentral Arabian Sea, many parts of south Arabian Sea, along and off

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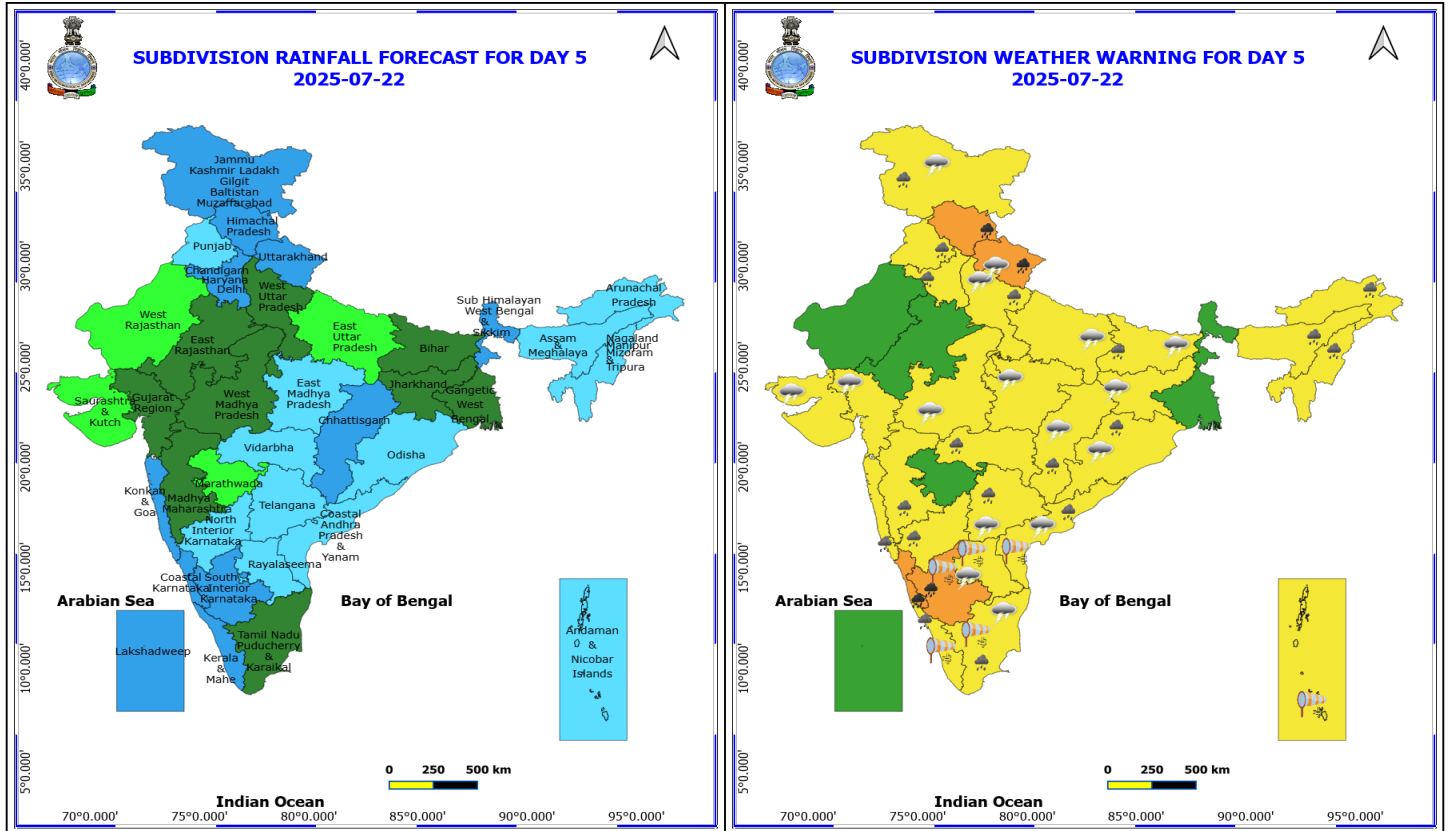
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Kerala, Karnataka coasts, over Lakshadweep, Maldives, Comorin areas, most parts of south and central Bay of Bengal, over Gulf of Mannar, along and off Sri Lanka coast, off Tamil Nadu and Andhra Pradesh coasts, over Andaman Sea.



## 22 July (Day 5)

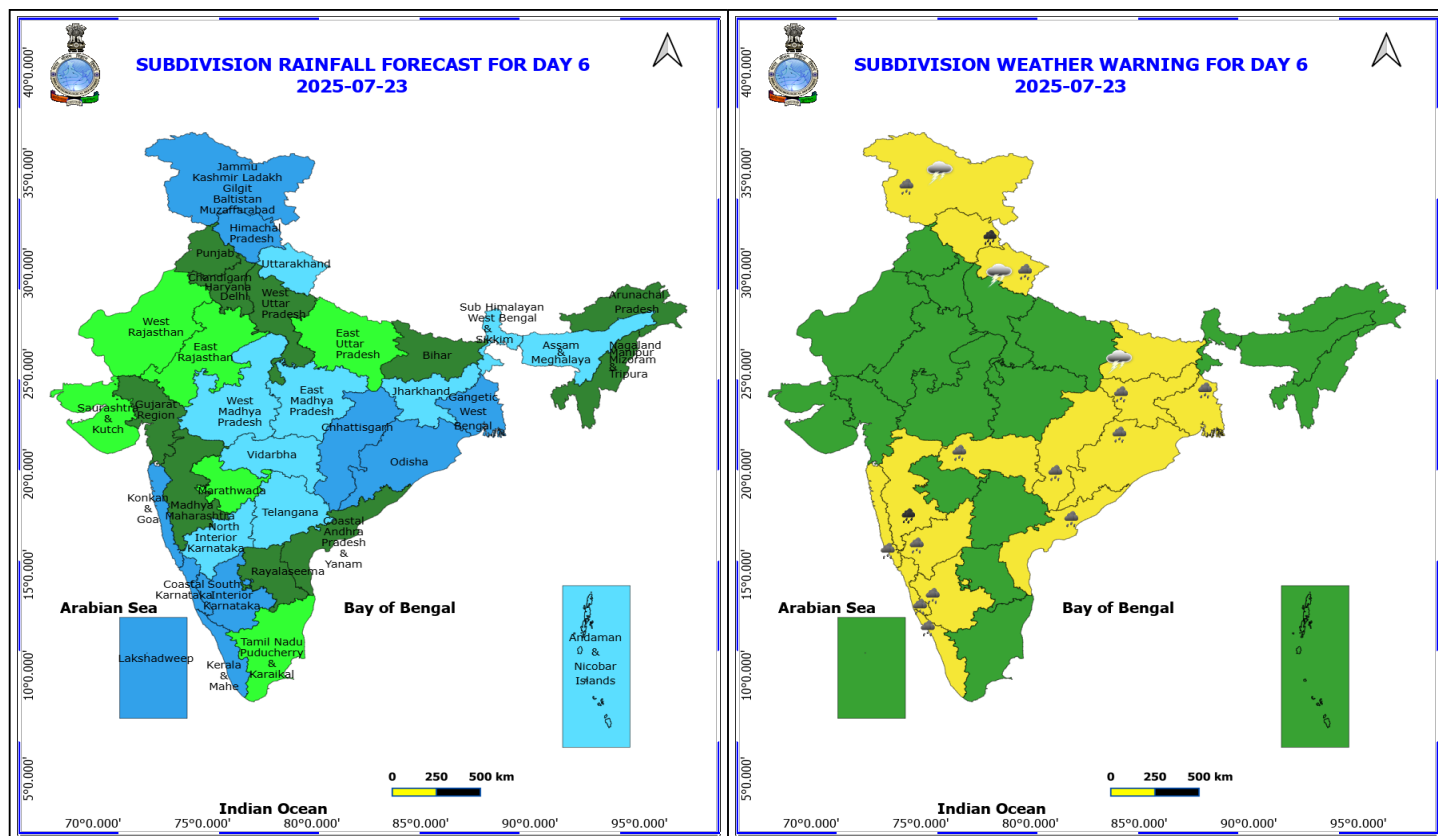
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Karnataka, Himachal Pradesh, South Interior Karnataka and Uttarakhand.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Coastal Andhra Pradesh, Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Kerala & Mahe, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, North Interior Karnataka, Odisha, Punjab, Tamil Nadu Puducherry & Karaikal, Telangana, Vidarbha and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Gujarat State, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal, Telangana and Uttar Pradesh.
- ❖ **Strong Surface Winds** likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Kerala & Mahe, South Interior Karnataka 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, Yemen & south Oman coasts, most parts of westcentral Arabian Sea & adjoining parts of eastcentral Arabian Sea, some parts of southwest Arabian Sea.
- ❖ **Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph** likely to prevail over most parts of eastcentral Arabian Sea, many parts of westcentral Arabian Sea, many parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep, Maldives, Comorin areas, most parts of south and central Bay of Bengal, over Gulf of Mannar, along and off Sri Lanka coast, off Tamil Nadu and Andhra Pradesh coasts, over Andaman Sea.

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## 23 July (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Himachal Pradesh and Madhya Maharashtra.
- ❖ **Heavy Rainfall** likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh, Gangetic West Bengal, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Karnataka, Kerala & Mahe, Konkan & Goa, Odisha, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand.

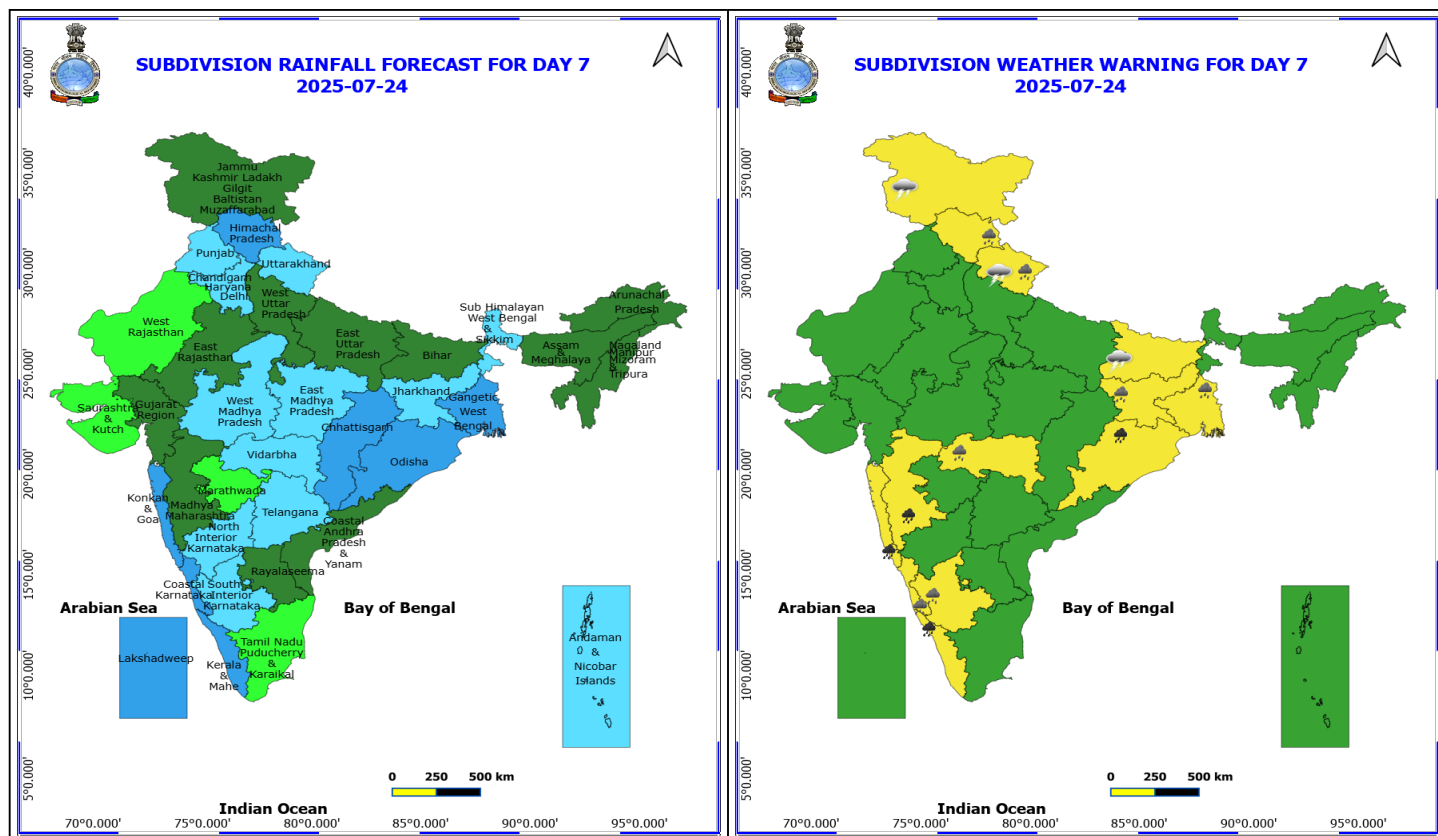
**No Fishermen Warning**

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## 24 July (Day 7)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Kerala & Mahe, Konkan & Goa, Madhya Maharashtra and Odisha.
- ❖ **Heavy Rainfall** likely at isolated places over Coastal Karnataka, Gangetic West Bengal, Himachal Pradesh, Jharkhand, South Interior Karnataka, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand.

**No Fishermen Warning**

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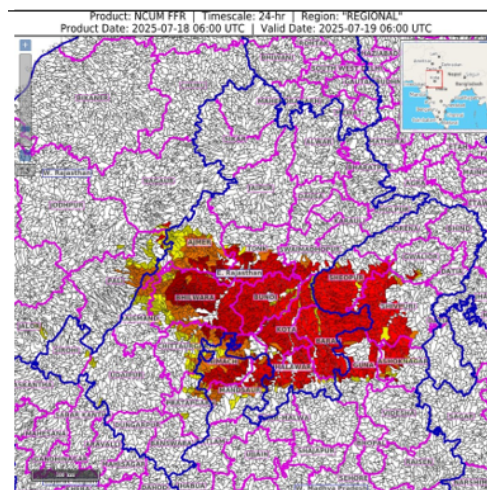
## Flash Flood Warnings

### **24hoursOutlookfortheFlashFloodRisk (FFR) till 1130 IST of 19-07-2025 :**

**Moderate flash flood risk** likely over few watersheds & neighbourhoods of following MetSub-divisionsduringnext24hours.

**East Rajasthan** - Ajmer,Baran, Bundi, Bhilwara, Chittaurgarh, Jhalawar, Tonk, Swaimadhopur,RajsamndandKotadistricts. **West Rajasthan** – Pali and Nagaur districts  
**WestMadhyaPradesh**-Ashoknagar,Guna, Gwalior, Sheopur, Shivpuri, Neemach, Mandsaur districts.

Surfacerrunoff/Inundationmayoccuratsome fully saturated soils & low-lying areas over AreaofConcern(AoC)asshowninmapdue to expected rainfall occurrence in next 24 hours.



### **24hoursOutlookfortheFlashFloodRisk (FFR) till 1130 IST of 19-07-2025:**

**Moderate flash flood risk** likely over few watersheds & neighbourhoods of following MetSub-divisionsduringnext24hours.

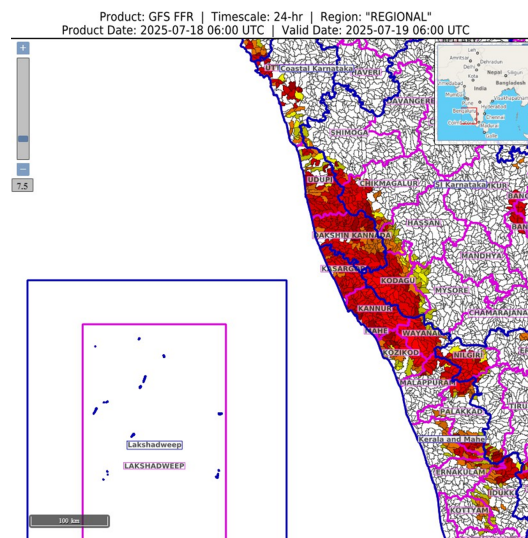
**Coastal Karnataka** – Uttar Kannada, Dakshin Kannada and Udupi districts. **Kerala & Mahe** - Ernakulam, Idukki, Kannur, Kottayam, Kasargod, Kozikod, Mahe,Malappuram,Palakkad,Pattanamittia, Trishur and Wayanad districts.

**Adjoining South Interior Karnataka**  
- Chamaraajanagar,Chikmagalur,Shimogaand Kodagu districts.

**Adjoining Tamil Nadu - Puducherry & Karaikal**  
- Coimbatore, Dindigul, Nilgiri, Tiruppur and Teni districts.

Surfacerrunoff/Inundationmayoccuratsome fully saturated soils & low-lying areas over AreaofConcern(AoC)asshowninmapdue toexpectedrainfalloccurrenceinnext24

hours.



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# Table-1

## 7 Days Rainfall Forecast

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

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

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Fig. 1: Maximum Temperatures Dated 2025-07-18

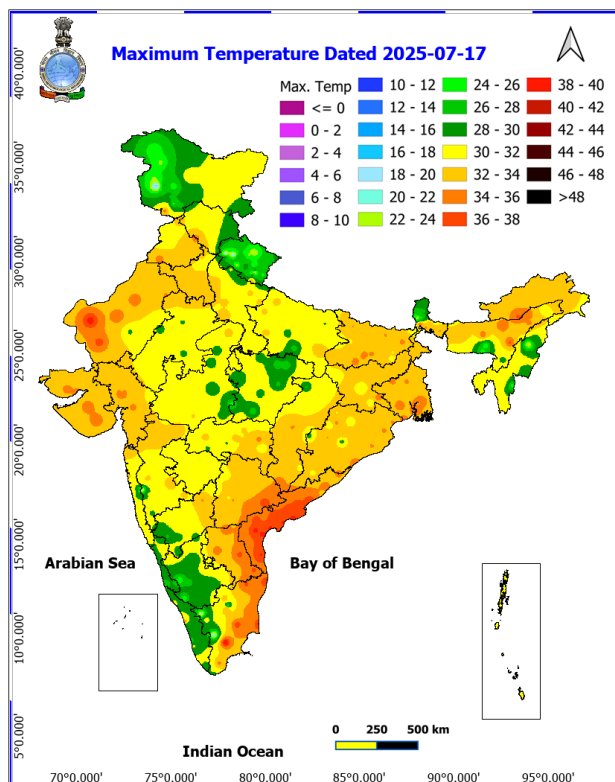


Fig. 2: Departure of Maximum Temp. Dated 2025-07-18

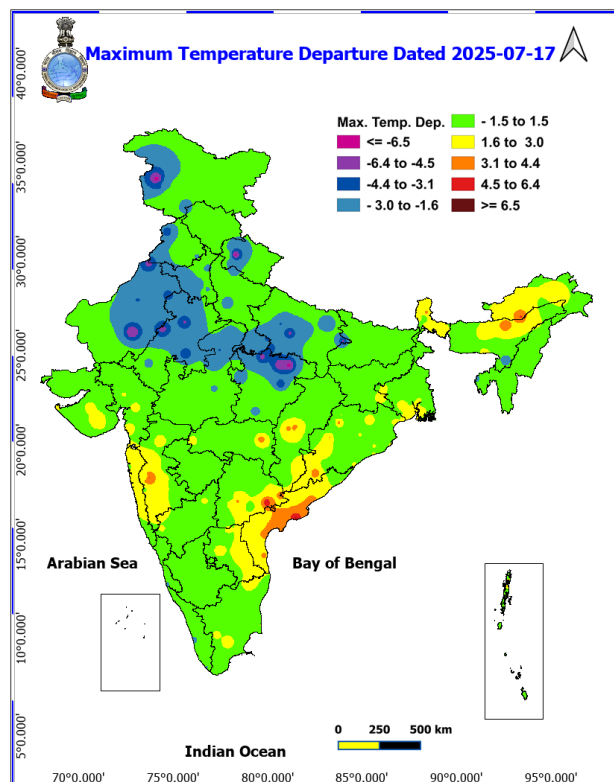


Fig. 3: Minimum Temperatures Dated 2025-07-18

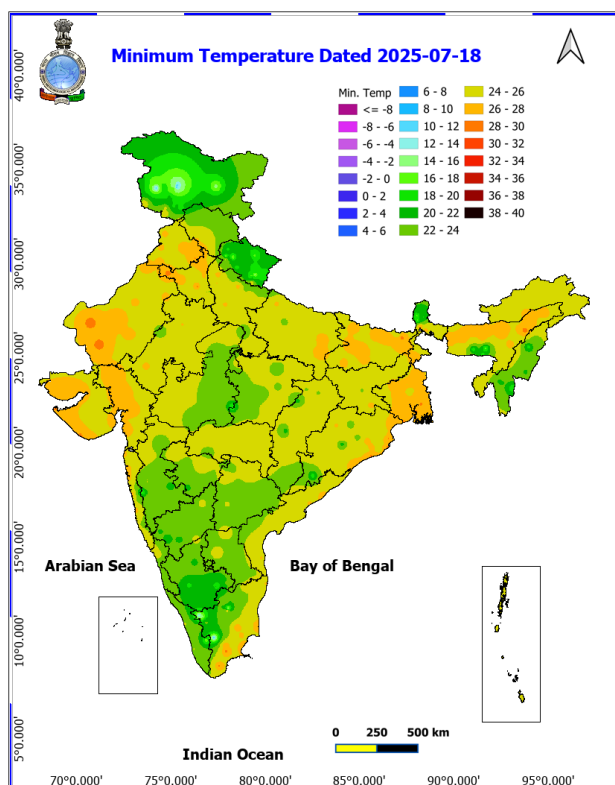
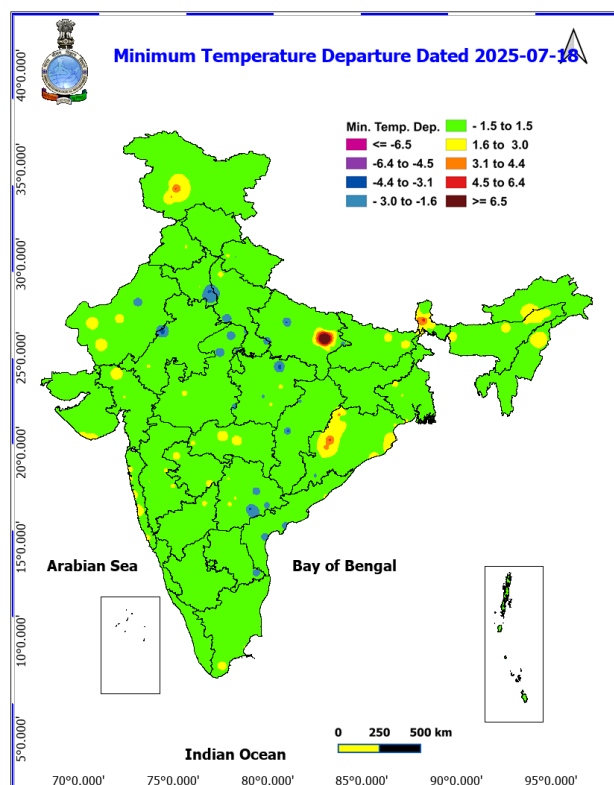
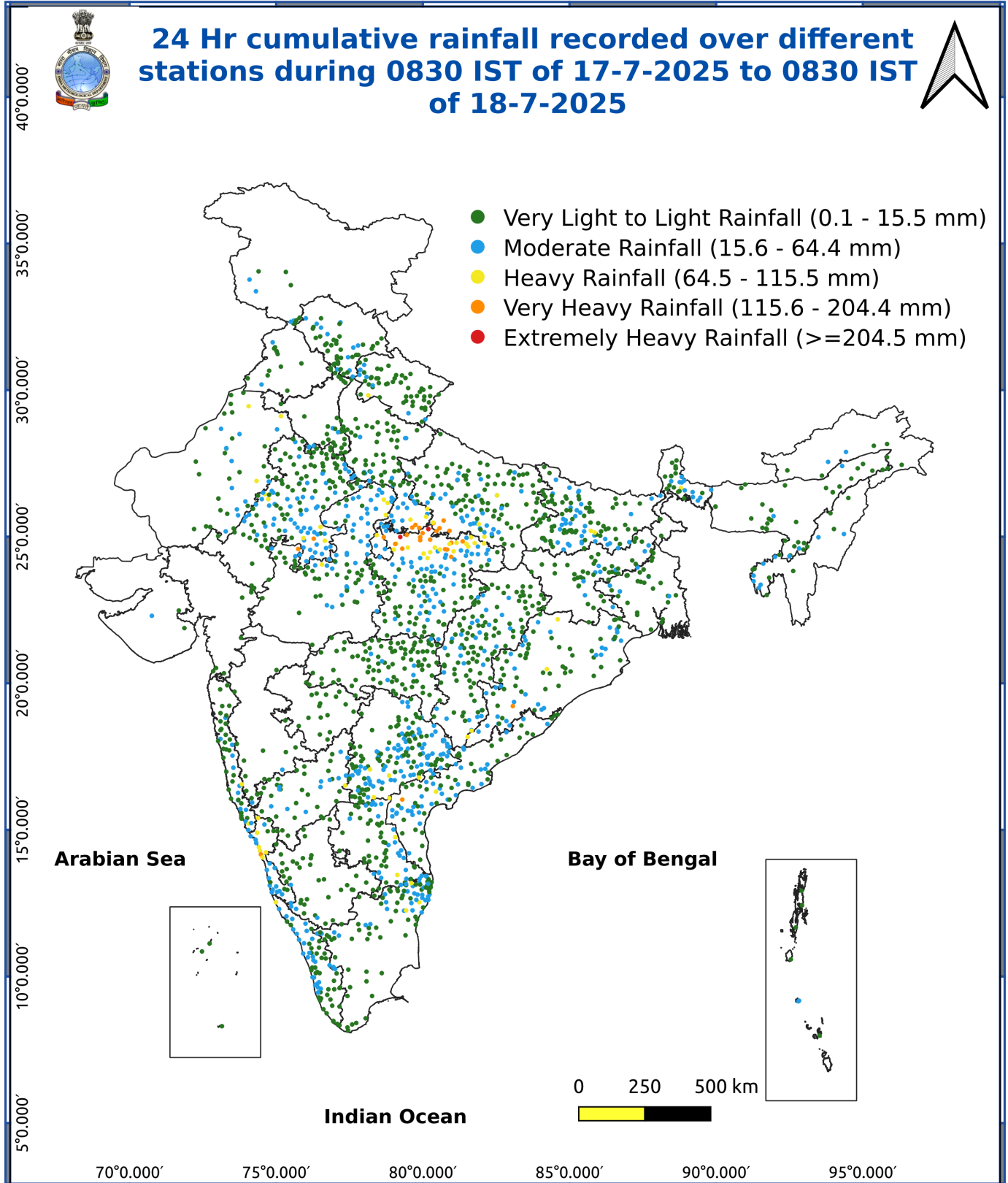


Fig. 4: Departure of Minimum Temp. Dated 2025-07-18





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- **Extremely heavy rainfall ( $\geq 21$  cm)** very likely at isolated places over Rajasthan, West Madhya Pradesh, Coastal Karnataka on 18<sup>th</sup>; Uttarakhand on 20<sup>th</sup> & 21<sup>st</sup> and Kerala during 18<sup>th</sup>-20<sup>th</sup> July.
- **very heavy rainfall** over Rajasthan on 19<sup>th</sup>; Uttarakhand during 20<sup>th</sup>-22<sup>nd</sup>; West Uttar Pradesh on 18<sup>th</sup> & 21<sup>st</sup>; Himachal Pradesh during 21<sup>st</sup>-23<sup>rd</sup> July Kerala & Mahe, Coastal and South Interior Karnataka during 18<sup>th</sup>-24<sup>th</sup>; Tamil Nadu during 18<sup>th</sup>-22<sup>nd</sup> July; Coastal Andhra Pradesh on 18<sup>th</sup> & 19<sup>th</sup>; East Madhya Pradesh on 18<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim on 19<sup>th</sup> & 20<sup>th</sup>; Odisha on 24<sup>th</sup>; Konkan & Goa on 20<sup>th</sup>, 21<sup>st</sup>, 24<sup>th</sup> and Ghat areas of Madhya Maharashtra on 18<sup>th</sup>, 23<sup>rd</sup> & 24<sup>th</sup> July.
- 

### Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of (**Rajasthan and West Madhya Pradesh**) 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

- In **Madhya Pradesh**, ensure proper drainage from standing crops. Postpone transplanting of rice and mango and sowing of pearl millet, soybean and vegetables in **Gird Zone**. Postpone transplanting of rice and sowing of maize and vegetables in **Kymore Plateau & Satpura Hills Zone**. Postpone sowing of soybean and sorghum in **Malwa Plateau Zone** and vegetables and horticultural crops in **Bundelkhand Zone**.
- In **Rajasthan**, postpone sowing of maize, soybean, green gram, black gram and groundnut and ensure drainage in standing crops in **Sub Humid Southern Plain and Aravali Hill Zone**. Postpone sowing of soybean, black gram, green gram, sesame and maize and provide adequate drainage in standing crops in **Southeastern Humid Plain Zone**. Make provision to drain out excess water from fields of pearl millet, sesame, black gram and vegetables in **Flood Prone Eastern Plain Zone** and pearl millet and groundnut fields in **Semi Arid Eastern Plain Zone**.
- In **South Uttar Pradesh**, drain out excess water from standing crops. Avoid transplanting of rice and sowing of green gram, black gram, groundnut and sesame in **Bundelkhand Zone**; transplanting of paddy and sowing of maize, pigeon pea, millet, black gram, green gram, groundnut and vegetables in **Vindhyan Zone**; and sowing of maize, sorghum, pigeon pea, green gram, black gram and vegetables in **Eastern Plain Zone** till soils moisture reaches at optimum level.
- In **Uttarakhand**, ensure proper drainage facilities in soybean, maize, barnyard millet, finger millet, pigeon pea, kidney beans, vegetables and orchards. Harvest matured vegetables and fruits and store in safe place.
- In **Chhattisgarh**, make arrangements for drainage of excess water from fields of rice, maize, pigeon pea, minor millets and vegetables. Provide mechanical support to tall/weak crops with stakes or bamboo to prevent lodging or breakage.
- In **Bihar**, do not allow rain water to stagnate in fields of maize, ragi, kodo, Sava, and vegetables in **North East**

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**Alluvial Zone** and ensure proper drainage in maize and vegetable crops in low-lying areas of **South Bihar Alluvial Zone**.

- In **Coastal Karnataka**, drain out excess water from rice nurseries, transplanted rice fields and plantations of arecanut and coconut in **Coastal Zone** and from rice nurseries and fields of maize, cotton and ginger and plantations of arecanut in **Hill Zone**. In **South Interior Karnataka**, make necessary arrangements to drain out excess water from fields of paddy, maize, black gram, green gram, field bean, cowpea, sugarcane, vegetables, ginger and plantations of coffee, pepper, cardamom, arecanut and banana in **Southern Dry Zone** and rice nurseries, fields of paddy, finger millet, maize and plantations of arecanut and black pepper in **Southern Transition Zone**.
- In **Kerala**, ensure proper drainage facilities in rice nurseries, transplanted rice fields, coconut and banana plantations to prevent water logging. Undertake propping in banana to protect the plants from heavy rains.
- In **Tamil Nadu**, ensure proper drainage facilities in rice nurseries, cotton, sugarcane, groundnut and transplanted rice fields, coconut and banana plantations to prevent water logging. Provide staking or support to tender plants of cotton, young plants of sugarcane and fruit-bearing plants of banana to avoid lodging.
- In **Andhra Pradesh**, drain out excess water from sugarcane, already sown fields of direct seeded rice, rice nurseries, sesame, banana & vegetables in **North Coastal Zone**.
- In **Konkan**, make arrangement to drain out excess water from rice and finger millet nurseries, groundnut, vegetables and orchards. In **ghat areas** of **Madhya Maharashtra** drain out excess water from rice and finger millet nurseries.

#### Livestock / Fishery

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

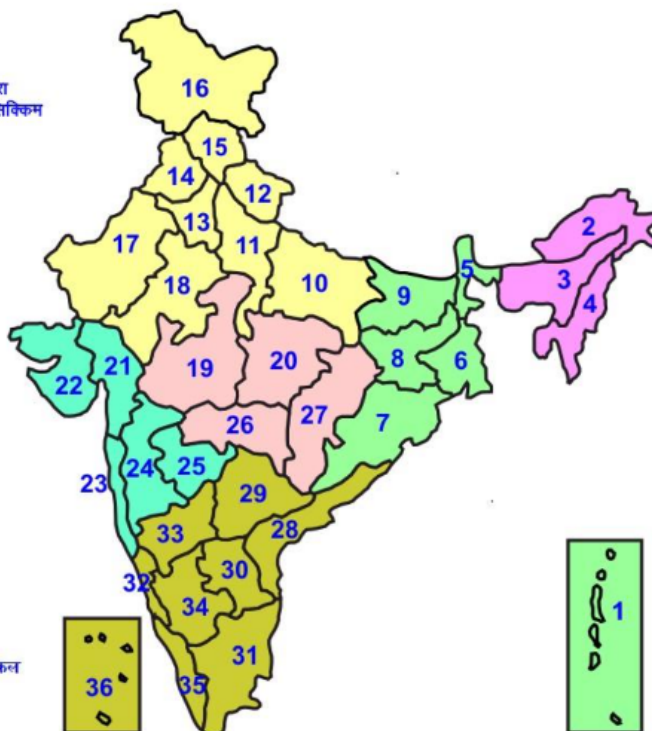
#### Agromet advisories for likely impact of Thunderstorm / Gusty Winds / Squally Winds

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

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

## 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


 Thunderstorm & Lightning


 Strong surface winds


 Cold Wave


 Hot & Humid


 Very Heavy Rain


 Hailstorm


 Heat Wave


 Cold Day


 Extremely Heavy Rain


 Dust Storm


 Hot Day

 Ground Frost

 Heavy Snow

 Dust Raising Winds

 Warm Night

 Fog

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## LEGENDS

### WARNING

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

### Probabilistic Forecast

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



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



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

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

(b). Based on Actual maximum temperature

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

(c). Criteria for heat wave for coastal stations

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



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

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



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

(a). Based on departure

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

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

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

(c) For Coastal Stations

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



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

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



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

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



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



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



Ice deposits on ground

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



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

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



Effect of various waves in the sea over specific area

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



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

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

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

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

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

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