

2025-07-14

Time of Issue: 15:12:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Northwest India

- **Extremely heavy rainfall(≥ 21 cm)**very likely at isolated places over Rajasthan on 14th & 15th July.
- Isolated **heavy rainfall** likely over Himachal Pradesh, Uttarakhand, East Uttar Pradesh during 14th-20th; Jammu-Kashmir during 14th-17th; Punjab on 14th & 16th; Haryana, Chandigarh on 14th; West Uttar Pradesh during 16th-20th; Rajasthan during 14th-17th July with **very heavy rainfall over Himachal Pradesh on 14th & 15th; Uttarakhand on 15th; West Rajasthan on 16th; East Uttar Pradesh on 17th 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.

East & Central India:

- **Extremely heavy rainfall(≥ 21 cm)**very likely at isolated places over Odisha, coastal Gangetic West Bengal, Jharkhand on 14th and Chhattisgarh on 15th July.
- Isolated **heavy rainfall** very likely to continue over West Madhya Pradesh during 14th-18th, East Madhya Pradesh, Odisha during 14th-20th, Chhattisgarh, Bihar during 14th-16th, Andaman & Nicobar Islands on 15th; Sub-Himalayan West Bengal & Sikkim on 14th, 15th, 19th & 20th July with **very heavy rainfall over West Madhya Pradesh on 14th, East Madhya Pradesh on 16th & 17th, Jharkhand during 15th-16th, Odisha, Gangetic West Bengal on 15th and Bihar on 15th & 16th July.**
- Light/moderate rainfall at most/many places accompanied with thunderstorm & lightning likely over the region during next 7 days with moderate to intense lightning over Bihar today.

West India:

- **Heavy rainfall** likely at isolated places over Konkan & Goa, Ghat areas of Madhya Maharashtra, Saurashtra & Kutchon 14th and Gujarat Region on 14th & 15th July with **very heavy rainfall over Gujarat Region on 14th 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 Assam & Meghalaya, Arunachal Pradesh, Mizoram & Tripura during 14th-16th July with **very heavy rainfall** over Meghalaya on 15th July.

South Peninsular India:

- Isolated **heavy to very heavy rainfall** likely over Kerala & Mahe, Tamil Nadu, Karnataka during 14th-20th; Tamil Nadu during 15th-19th, isolated **heavy rainfall** over Lakshadweep on 19th & 20th; Coastal Andhra Pradesh & Yanam during 18th-20th; Rayalaseema on 18th & 19th 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.

Hot & Humid weather Warnings:

- Hot & Humid weather conditions very likely in isolated pockets of Tamil Nadu, Coastal Andhra Pradesh & Yanam and Rayalaseema on 14th & 15th 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 Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Jharkhand, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Gujarat Region, Konkan & Goa, Coastal Karnataka, Kerala & Mahe and Lakshadweep; **at many places** over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Bihar, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Himachal Pradesh, West Rajasthan, East Madhya Pradesh, Vidarbha and South Interior Karnataka; **at a few places** over Punjab, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, Chhattisgarh and North Interior Karnataka; **at isolated places** over Arunachal Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal;

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Odisha:** Mandira Dam (dist Sundargarh) 22; Rajkanika (dist Kendrapara) 14; Dhamnagar (dist Bhadrak) 12; Panposh (dist Sundargarh), Jenapur (dist Jajpur) 11 Each; Pallahara (dist Angul), Lathikata (dist Sundargarh) 10 Each; Kankadahad (dist Dhenkanal), Bhuban (dist Dhenkanal), Sukinda (dist Jajpur), Raurkela (dist Sundargarh) 9 Each; Batagaon (dist Sambalpur), Sonapur (dist Sonapur), Nayagarh (dist Nayagarh), Bhandaripokhari (dist Bhadrak), Raruana (dist Mayurbhanj) 8 Each; Kaniha (dist Angul), Ghatagaon (dist Keonjhar), Khairamal (dist Boudhgarh), Chandbali (dist Bhadrak), Hatadihi (dist Keonjhar), Sukruli (dist Mayurbhanj) 7 Each; Kuchinda (dist Sambalpur), Bhanjnar (dist Ganjam), Dhenkanal (dist Dhenkanal), Talcher (dist Angul), Kamakhyanagar (dist Dhenkanal), Odagaon (dist Nayagarh), Altuma (dist Dhenkanal), Padia (dist Malkangiri), Bahanga (dist Balasore) 6 Each; **East Rajasthan:** Mangrol (dist Baran) 18; Shahabad (dist Baran) 17; Pipalda SR (dist Kota) 15; Aspuri (dist Dungarpur), Kota-aero (dist Kota), Kishanganj (dist Baran) 12 Each; Deogarh (dist Rajsamand), Baran (dist Baran), Bundi (dist Bundi) 11 Each; Bari (dist Dholpur), Ghatol (dist Banswara) 10 Each; Chothkabarwara SR (dist Sawai Madhopur), Girva SR (dist Udaipur), Uniara/aligarh (dist Tonk), Ganeshpur SR (dist Dungarpur), Bhungra SR (dist Banswara), Mounntabu Tehsil SR (dist Sirohi), Bhainsroadgarh SR (dist Chittorgarh) 9 Each; Tatgarh SR (dist Ajmer), Atru SR (dist Baran), Bari-sadri (dist Chittorgarh), Khandar SR (dist Sawai Madhopur), Sarmathura SR (dist Dholpur) 8 Each; Karauli (dist Karauli), Udaipur/D-aero (dist Udaipur), Nadoti (dist Karauli), Anta SR (dist Baran), Chabra (dist Baran) 7 Each; Hindoli (dist Bundi), Kumbhalgarh SR (dist Rajsamand), Baswa (dist Dausa), Sallopat SR (dist Banswara), Bayana (dist Bharatpur), Talera SR (dist Bundi), Mahwa (dist Dausa), Sapotra (dist Karauli), Amet (dist Rajsamand), Ladpura SR (dist Kota), Jhalrapatan SR (dist Jhalawar), Patan (dist Bundi) 6 Each; **West Madhya Pradesh:** Badoda (dist Sheopur) 17; Sabalgarh (dist Morena) 15; Khategaon (dist Dewas) 14; Bagli (dist Dewas), Piploda (dist Ratlam), Satwas (dist Dewas) 11 Each; Vijaypur (adp) (dist Sheopur), Badarwas (dist Shivpuri) 10 Each; Kolaras (dist Shivpuri), Isagarh (dist Ashoknagar), Nagda (dist Ujjain), Karhal (dist Sheopur), Bairad (dist Shivpuri), Bamori (dist Guna) 9 Each; Kannod (dist Dewas), Tonkhurd (dist Dewas), Alot (dist Ratlam) 8 Each; Guna-aws (dist Guna), Jaora (dist Ratlam), Nasrullahganj (dist Sehore), Sheopur-aws (dist Sheopur), Veerapur (dist Sheopur) 7 Each; Pohri (dist Shivpuri), Khaniyadana (dist Shivpuri), Jawar (dist Sehore) 6 Each; **Jharkhand:** Ghatsila (dist East Singhbhum) 17; Chandil (dist Seraikela-kharsawan) 11; Manoharpur (dist West Singhbhum) 10; Torpa (dist Khunti), Arki (dist Khunti), Anandpur (dist West Singhbhum), Dhalbhumgarh (dist East Singhbhum), Rania (dist Khunti) 8 Each; Jamshedpur AP (dist East Singhbhum), Kumardungi (dist West Singhbhum) 7 Each; Jamshedpur (dist East Singhbhum), Hatgamharia (dist West Singhbhum) 6 Each; **West Rajasthan:** Pali (dist Pali) 17; Desuri (dist Pali) 14; Bilara (dist Jodhpur) 11; Marwar Junction (dist Pali) 10; Sojat (dist Pali) 9; Dungargarh (dist Bikaner) 8; Raipur SR (dist Pali), Sujargarh (dist Churu), Rohat SR (dist Pali) 7 Each; Jodhpur Tehsil SR (dist Jodhpur) 6; **East Uttar Pradesh:** Turtipar (dist Ballia) 13; Ballia (dist Ballia), Chunar (dist Mirzapur) 10 Each; Varanasi BHU (dist Varanasi) 8; Mahsi (dist Bahraich), Fatehpur Tehsil (dist Barabanki) 7 Each; Nighasan (dist Kheri), Mirzapur CWC (dist Mirzapur) 6 Each; **Gujarat Region:** Satlasana (dist Mehsana) 10; Khedbrahma (dist Sabarkantha), Dharoi Colony (dist Mehsana) 7 Each; Khambhat (dist Anand), Kaprada (dist Valsad) 6 Each; **Sub Himalayan West Bengal & Sikkim:** Chalouni Tea Estate (dist Jalpaiguri) 9; Chengmari/Diana (dist Jalpaiguri), Chel (dist Jalpaiguri), Hilla T.e. (dist Jalpaiguri), Indong T.e. (dist Jalpaiguri), Zurrantee T.e (dist Jalpaiguri) 6 Each; **Coastal Karnataka:** Kota (dist Udupi) 9; Shakti Nagar (dist Dakshina Kannada), Mangaluru (dist Dakshina Kannada) 8 Each; Udupi (dist Udupi), Bantwal (dist Dakshina Kannada) 7 Each; Mudubidre (dist Dakshina Kannada), Sulya (dist Dakshina Kannada), Puttur HMS (dist Dakshina Kannada) 6 Each; **Assam & Meghalaya:** Goalpara AWS (dist Goalpara) 9; Goalpara PTO (dist Goalpara) 8; Goibargaon (dist Baksa) 7; **Gangetic West Bengal:** Sagar Island PTO (dist South 24 Parganas) 8; Basirhat(pt) (dist North 24 Parganas), Canning (dist South 24 Parganas), Contai (dist East Midnapore) 6 Each; **Chhattisgarh:** Pratappur (dist Surajpur) 8; Wandrafanagar (dist Balrampur) 7; **South Interior Karnataka:** Agumbe AWS (dist Shivamogga) 7; **Saurashtra & Kutch:** Barvala (dist Botad) 7; **Himachal Pradesh:** Rajgarh (dist Sirmaur) 7; **Haryana-Chandigarh-Delhi:** Sohana (dist Gurgaon),

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Palhawas REV (dist Rewari) 7 Each; Jatusana (dist Rewari) 6; **West Uttar Pradesh:** Talbehat (dist Lalitpur) 7; **Nagaland, Manipur, Mizoram & Tripura:** Chhamonu (dist Dhalai) 7; **Madhya Maharashtra:** Gaganbawada (dist Kolhapur) 6; **Punjab:** Rajpura ARG (dist Patiala) 6; **Coastal Andhra Pradesh & Yanam:** Visakhapatnam (dist Vishakhapatnam) 6; **Tamil Nadu, Puducherry & Karaikal:** Rasipuram (dist Namakkal), Sandhiyur Kvk AWS (dist Salem) 6 Each; **Uttarakhand:** Sama (dist Bageshwar) 6.

❖ **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 Odisha, Jharkhand, East Uttar Pradesh, West Rajasthan, East Rajasthan and West Madhya Pradesh. **Heavy rain** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Himachal Pradesh, Gujarat Region, Saurashtra & Kutch, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka and South Interior Karnataka.

❖ **Minimum Temperature Departures (as on 14-07-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, Odisha, Bihar, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, East Rajasthan, West Madhya Pradesh and Saurashtra & Kutch. **appreciably above normal(3.1°C to 5.0°C)** at few places over Arunachal Pradesh and East Madhya Pradesh; at isolated places over Sub Himalayan West Bengal & Sikkim, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, Gujarat Region and Coastal Andhra Pradesh & Yanam. **above normal(1.6°C to 3.0°C)** at few places over Andaman & Nicobar Islands, Punjab, Chhattisgarh, Rayalaseema and Coastal Karnataka; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Konkan & Goa, Vidarbha, Telangana and Tamil Nadu, Puducherry & Karaikal. **near normal(-1.5°C to 1.5°C)** at many places over Jharkhand, Haryana-Chandigarh-Delhi and Kerala & Mahe; at most places over Gangetic West Bengal, Madhya Maharashtra, Marathwada, North Interior Karnataka and South Interior Karnataka; at few places over Lakshadweep. **The lowest minimum temperature** of 18.0°C is reported at Khargone (Madhya Pradesh) over the Plains of India.

❖ **Maximum Temperature Departures (as on 13-07-2025): markedly above normal(> 5.1°C)** at most places over Arunachal Pradesh and Assam & Meghalaya; at few places over Sub Himalayan West Bengal & Sikkim and Bihar; at isolated places over Coastal Andhra Pradesh & Yanam. **appreciably above normal(3.1°C to 5.0°C)** at many places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Odisha, East Uttar Pradesh, Uttarakhand, Chhattisgarh, Telangana and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at few places over Gangetic West Bengal, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, Marathwada, Rayalaseema, Kerala & Mahe and Lakshadweep; at isolated places over West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha and North Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Jharkhand, Gujarat Region, Saurashtra & Kutch and South Interior Karnataka; at most places over Andaman & Nicobar Islands and Coastal Karnataka; at few places over West Madhya Pradesh; at isolated places over East Rajasthan and East Madhya Pradesh. **The highest maximum temperature** of 40.5°C is reported at MADURAI (A) (TAMIL NADU).

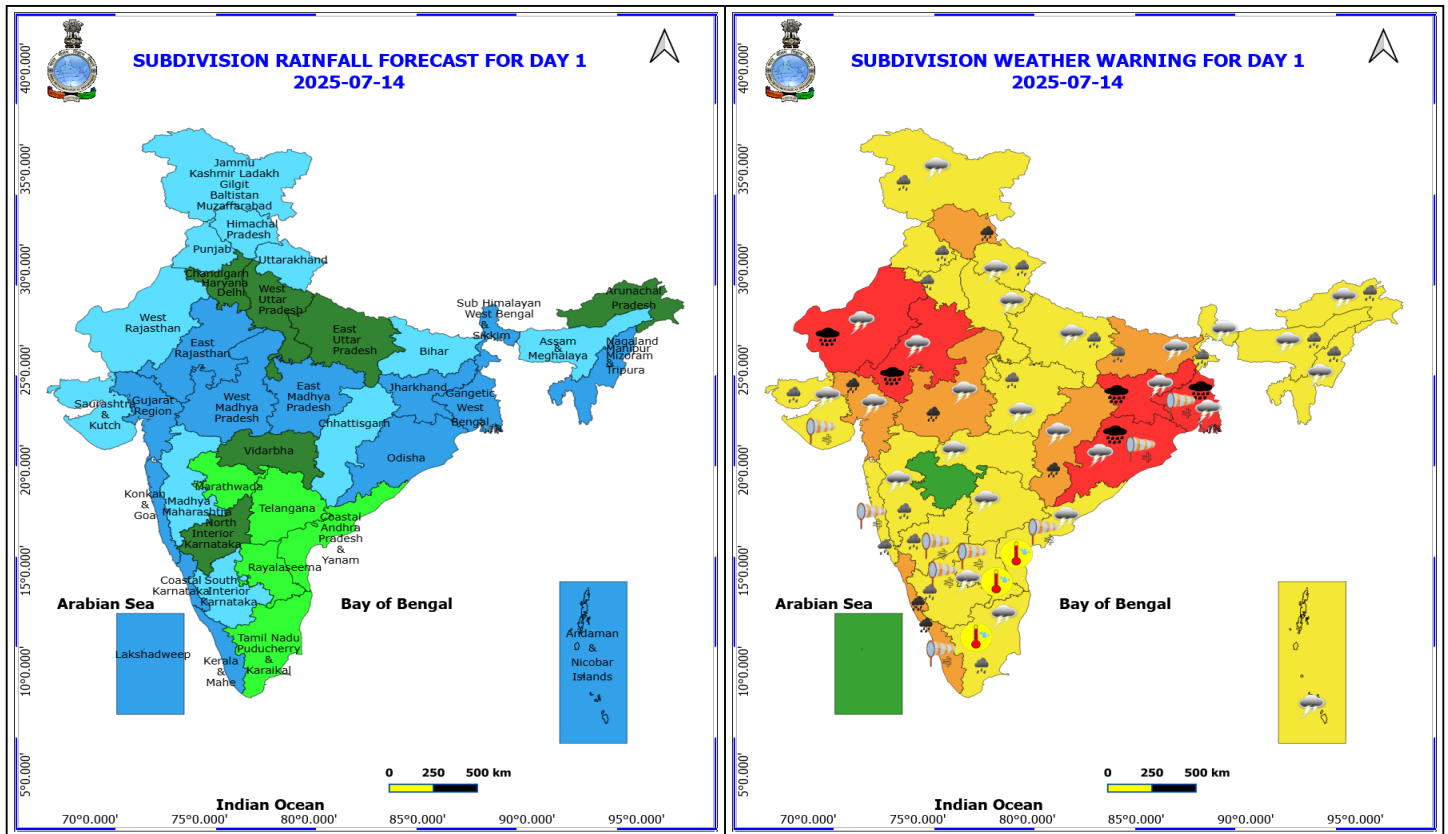


Meteorological Analysis (Based on 0830 hours IST)

- The **low pressure** area over northwest Madhya Pradesh and adjoining east Rajasthan moved slowly west-northwestwards and lay as a **well marked Low Pressure area** over northeast Rajasthan & adjoining northwest Madhya Pradesh at 0830 hrs IST of today, the 14th July, 2025. The associated upper air cyclonic circulation extended upto 7.6 km above mean sea level. It is likely to continue to move further slowly west-northwestwards across Rajasthan during next 2 days.
- The **well marked low pressure area** over southwest Bangladesh and adjoining Gangetic West Bengal moved slowly west-northwestwards and lay over southeast Gangetic West Bengal and adjoining Bangladesh at 0830 hrs IST of today, the 14th July, 2025. The associated upper air cyclonic circulation extended upto 7.6 km above mean sea level tilting southwestwards with height. It is likely to continue to move northwestwards and concentrate into a **Depression** over Gangetic West Bengal during next 24 hours.
- The **monsoon trough** at mean sea level now passes through Bikaner, centre of a **well marked low Pressure area** over northeast Rajasthan & adjoining northwest Madhya Pradesh, Siddhi, Ranchi, center of **well marked low pressure area** over southeast Gangetic West Bengal and adjoining Bangladesh.
- 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. 66°E to the north of Lat. 28°N.

Weather Outlook for subsequent 3 days

- Fairly widespread to widespread rainfall very likely over Northwest & Northeast India.
- Scattered to fairly widespread rainfall likely over central and southern India.
- Isolated to Scattered rainfall very likely over rest parts of the country.



14 July (Day 1)

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

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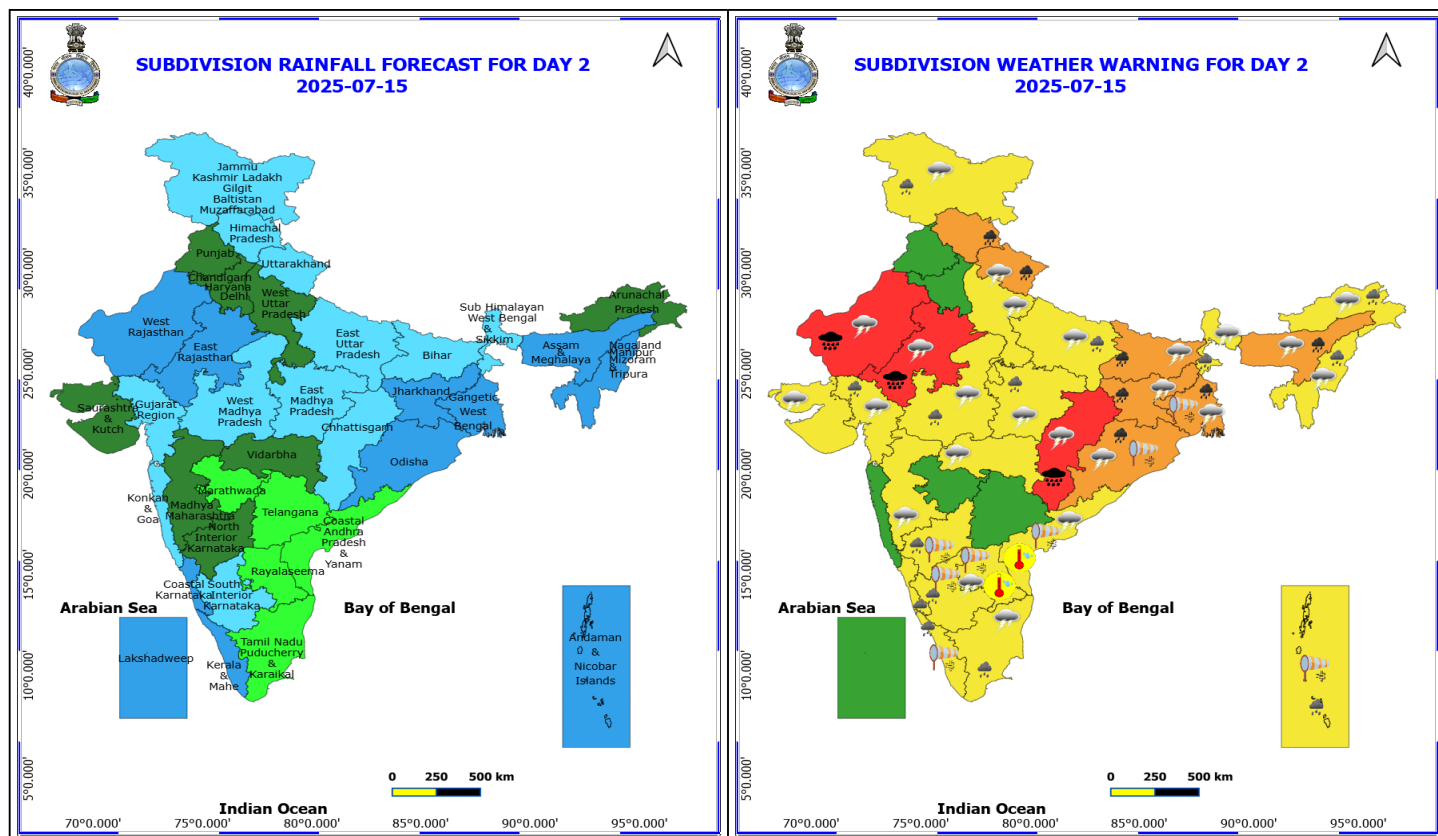
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Karaikal.

- ❖ Squally winds with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail North Bay of Bengal and along and off north Odisha, West Bengal & Bangladesh coast during next 24 hours. Sea conditions likely to be rough over north Bay of Bengal during next 24 hours. Fisherman are advised not to venture into the sea for the above areas, during next 24 hours.
- ❖ Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Oman & adjoining Yemen coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea, Gulf of Mannar.
- ❖ Squally winds with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over many parts of eastcentral, westcentral Arabian Sea and adjoining south Arabian Sea, along and off Kerala, Karnataka coasts, Lakshadweep area, Comorin area.



15 July (Day 2)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Chhattisgarh and Rajasthan.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Bihar, Gangetic West Bengal, Himachal Pradesh, Jharkhand, Odisha and Uttarakhand.
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, East Uttar Pradesh, Gujarat Region, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Karnataka, Kerala & Mahe, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha, Uttarakhand and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Gujarat State, Madhya Maharashtra, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh and Vidarbha.
- ❖ **Strong Surface Winds** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Gangetic West Bengal, Interior Karnataka, Kerala & Mahe and Odisha.
- ❖ **Hot and Humid weather** very likely at isolated places over Andhra Pradesh.
- ❖ Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea,

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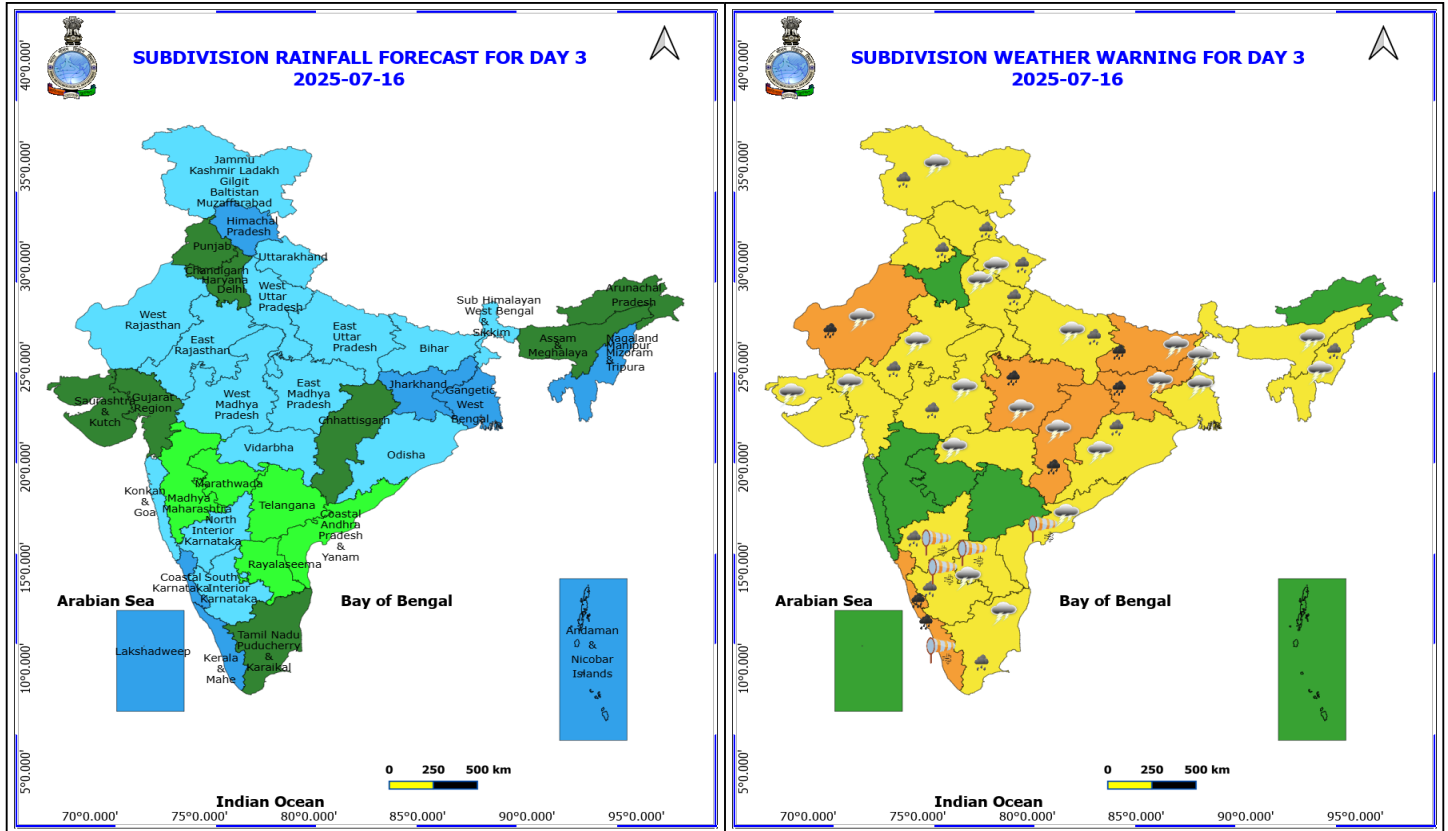
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northern parts of southwest Arabian Sea, Gulf of Mannar.

❖ Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over most parts of eastcentral Arabian Sea & adjoining westcentral, south Arabian Sea, along and off Gujarat, Konkan, Goa, Karnataka, Kerala coasts, some parts of northeast Arabian Sea, over Lakshadweep area, Comorin area, over some parts of southwest & few parts of westcentral Bay of Bengal, some southern parts of south Bay of Bengal.



16 July (Day 3)

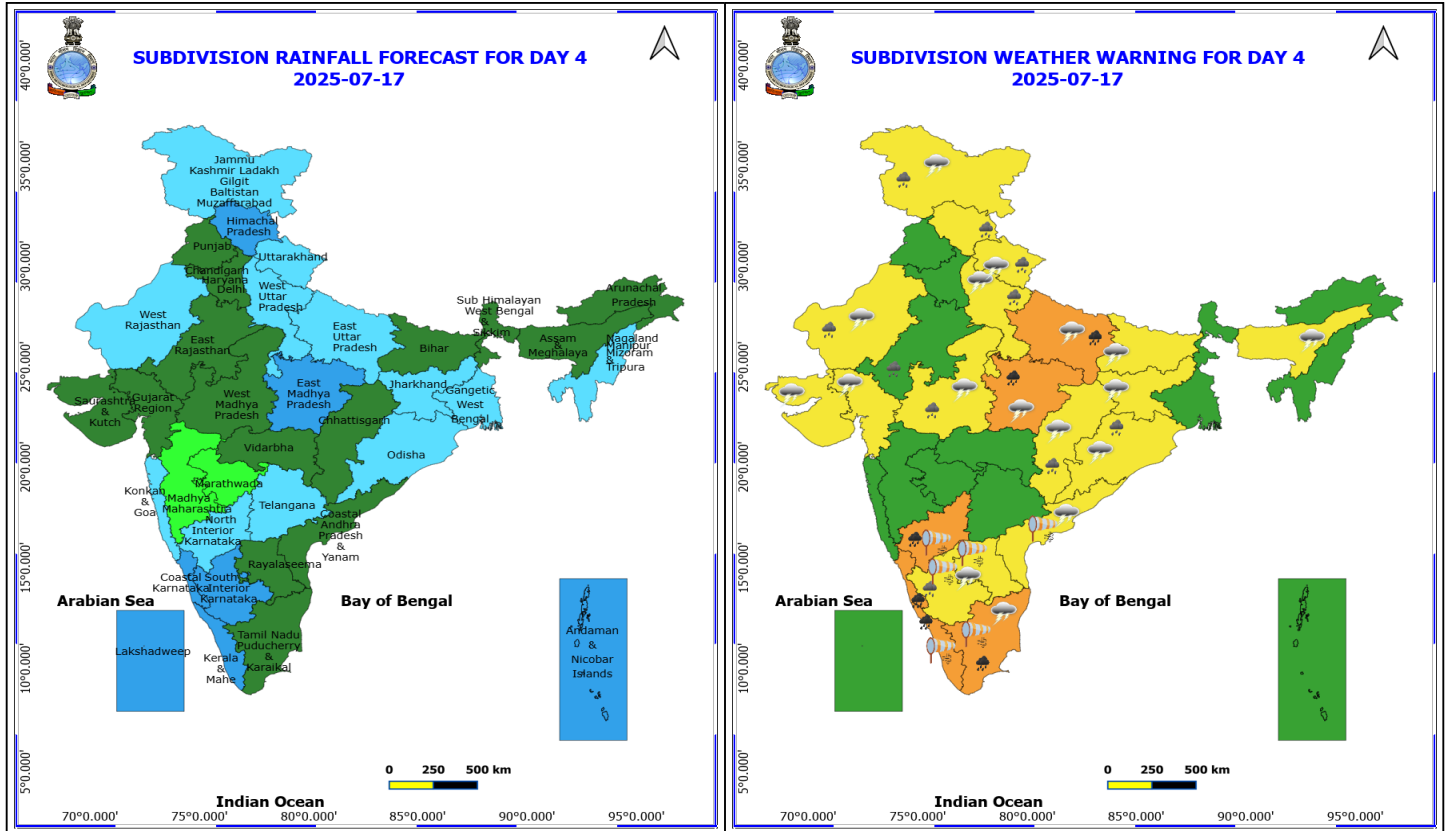
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Bihar, Chhattisgarh, Coastal Karnataka, East Madhya Pradesh, Jharkhand, Kerala & Mahe and West Rajasthan.
- ❖ **Heavy Rainfall** very likely at isolated places over East Rajasthan, Himachal Pradesh, Interior Karnataka, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh, Uttarakhand and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, Gangetic West Bengal, Gujarat State, Jharkhand, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh, Uttarakhand and Vidarbha.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh, Interior Karnataka and Kerala & Mahe.
- ❖ Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.
- ❖ Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over many parts of eastcentral Arabian Sea, adjoining and some parts of westcentral Arabian Sea, & adjoining, northern parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep area, Comorin area, some parts of southwest and adjoining westcentral Bay of Bengal, some southern parts of southwest and adjoining southeast Bay of Bengal, over Gulf of Mannar.

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17 July (Day 4)

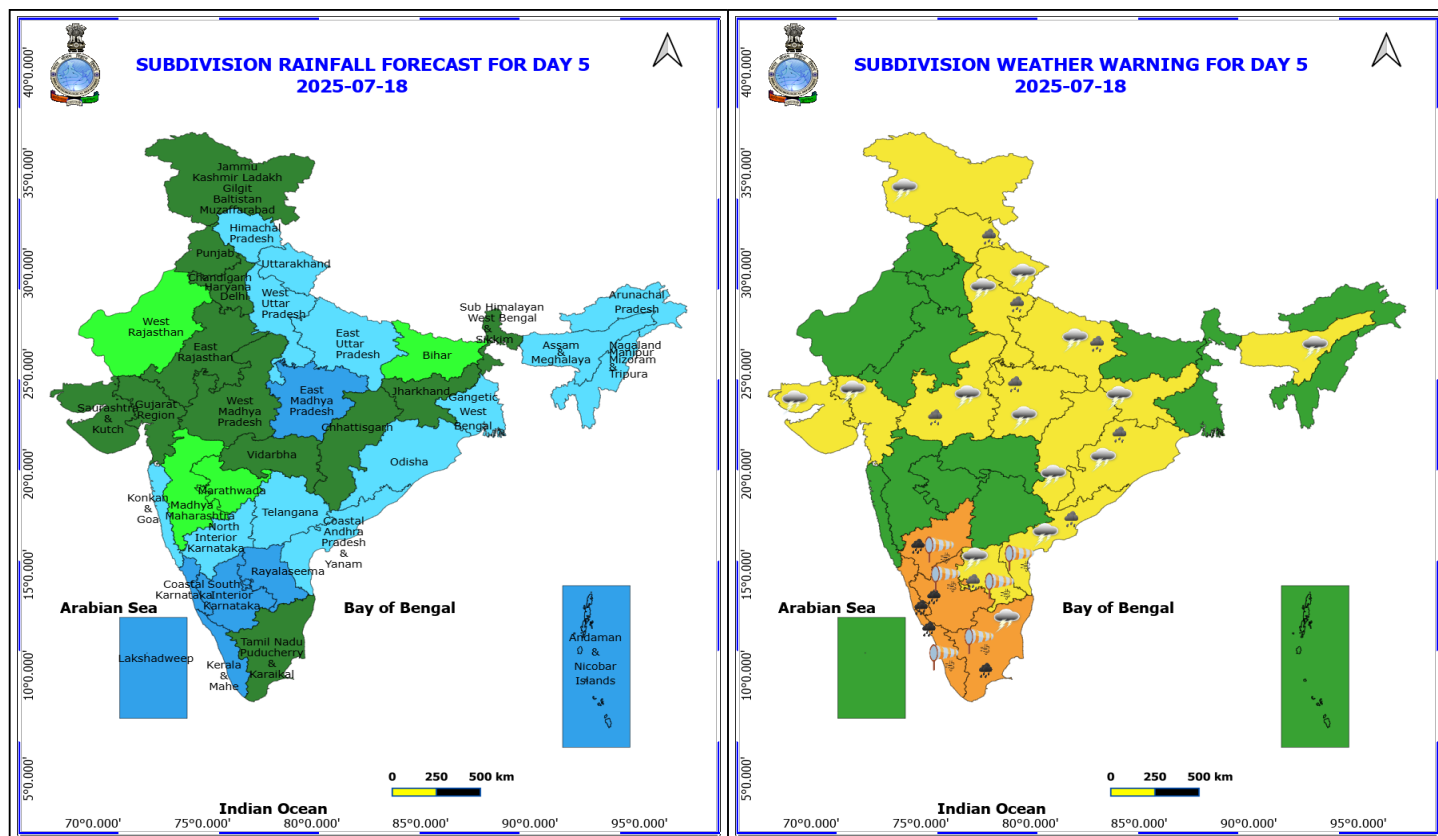
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Karnataka, East Madhya Pradesh, East Uttar Pradesh, Kerala & Mahe, North Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** likely at isolated places over Chhattisgarh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Rajasthan, South Interior Karnataka, Uttarakhand, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, Gujarat State, Jharkhand, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh, Uttarakhand and West Rajasthan.
- ❖ **Strong Surface Winds** likely at isolated places over 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 & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some 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 many parts of eastcentral Arabian Sea, adjoining and some parts of westcentral Arabian Sea, & adjoining, northern parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep area, Comorin area, some parts of southwest and adjoining westcentral Bay of Bengal, some southern parts of southwest and adjoining southeast Bay of Bengal, over Gulf of Mannar, south Andaman Sea.

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18 July (Day 5)

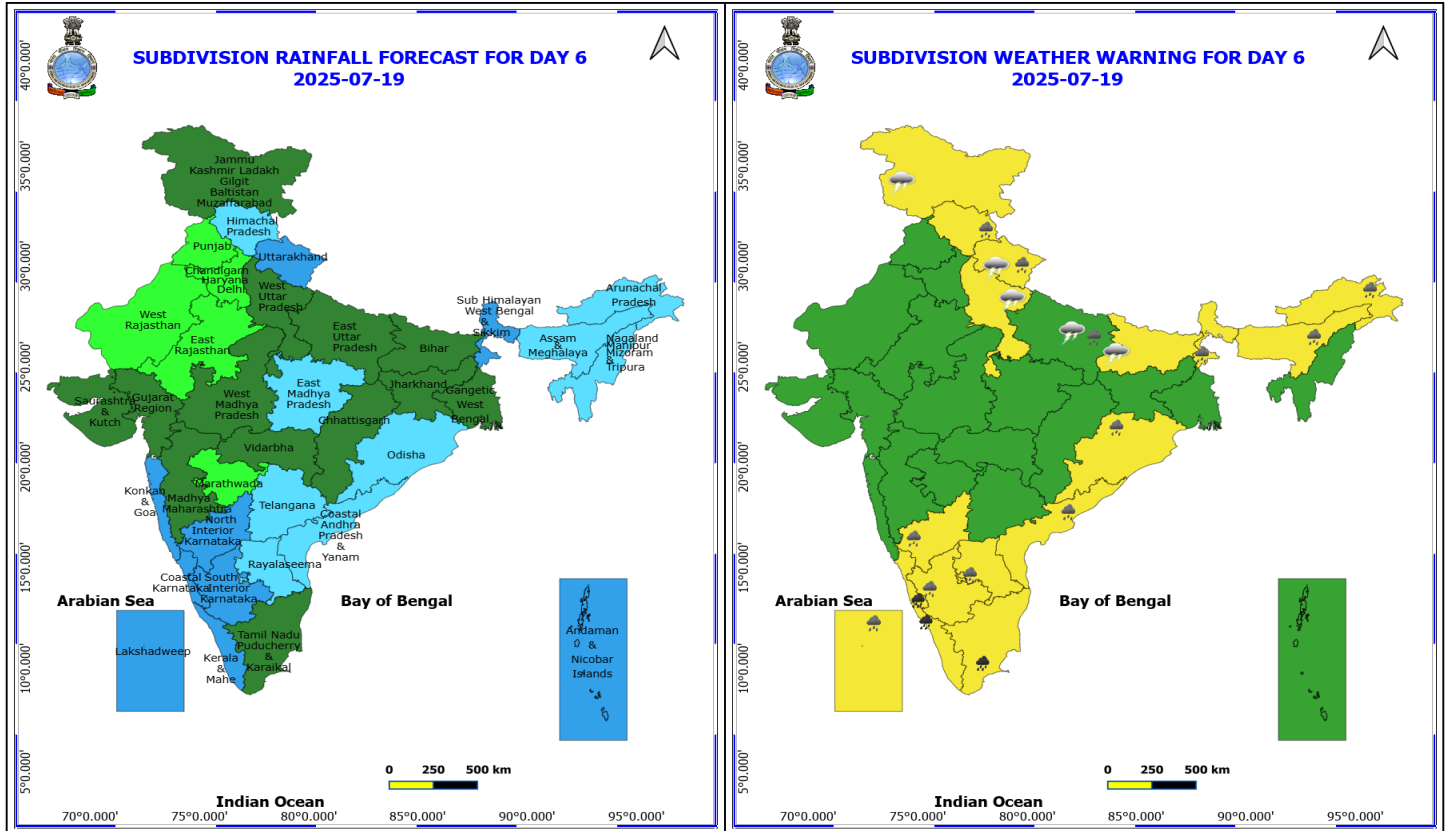
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Karnataka, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** likely at isolated places over Andhra Pradesh, Himachal Pradesh, Madhya Pradesh, Odisha and Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, Gujarat State, Jharkhand, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh and Uttarakhand.
- ❖ **Strong Surface Winds** likely at isolated places over 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 & 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 some parts of eastcentral, westcentral, south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep area, Comorin area, some southern parts of southwest and adjoining southeast Bay of Bengal, over Gulf of Mannar, south Andaman Sea and adjoining north Andaman Sea.

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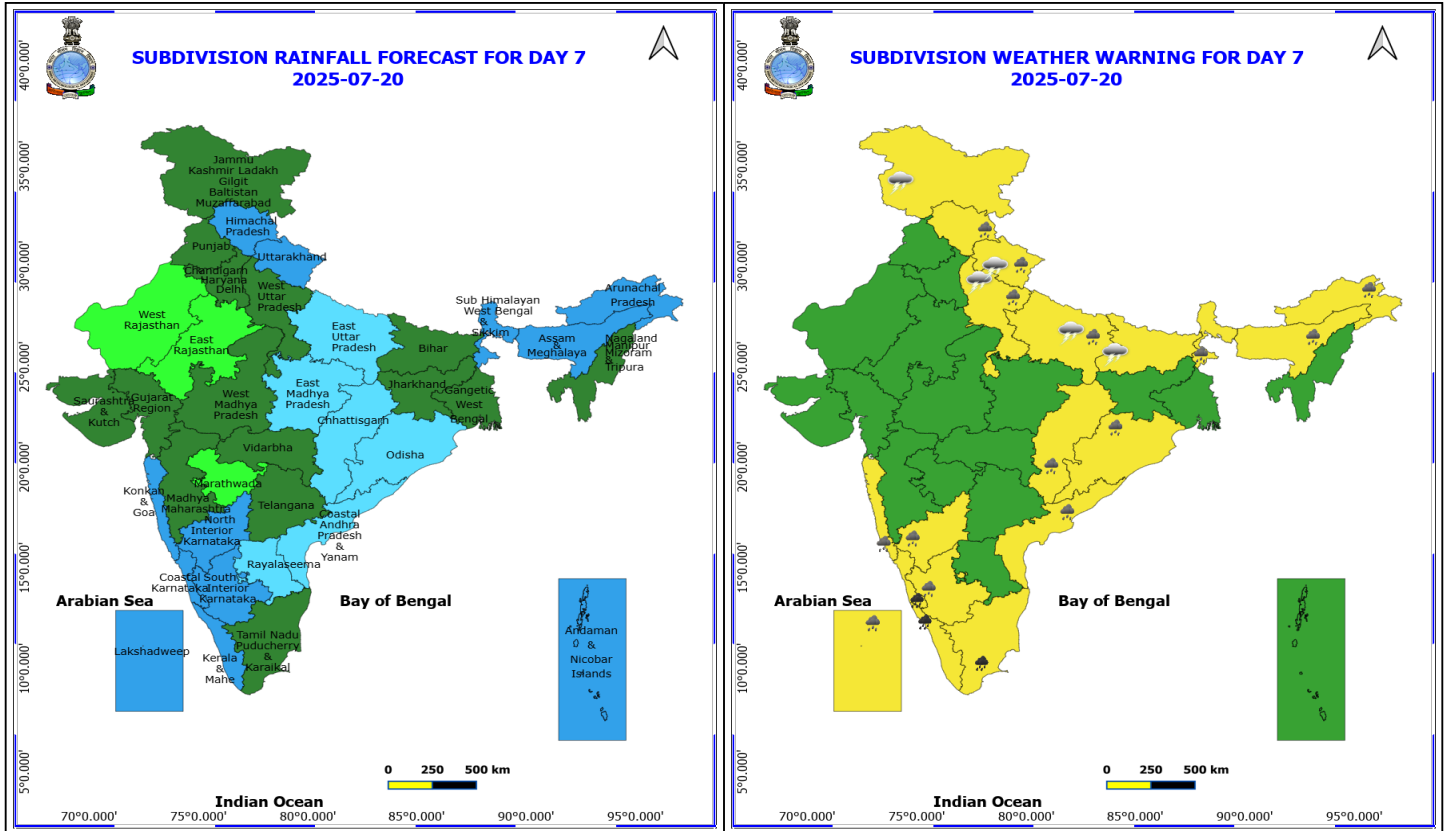
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19 July (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Karnataka, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, East Uttar Pradesh, Himachal Pradesh, Interior Karnataka, Lakshadweep, Odisha, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Uttar Pradesh and Uttarakhand.

No Fishermen Warning



20 July (Day 7)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Karnataka, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** likely at isolated places over Andhra Pradesh, Himachal Pradesh, Madhya Pradesh, Odisha and Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, Gujarat State, Jharkhand, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh and Uttarakhand.
- ❖ **Strong Surface Winds** likely at isolated places over Andhra Pradesh, Interior Karnataka, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.

No Fishermen Warning

Flash Flood Warnings

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 15-07-2025 :

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

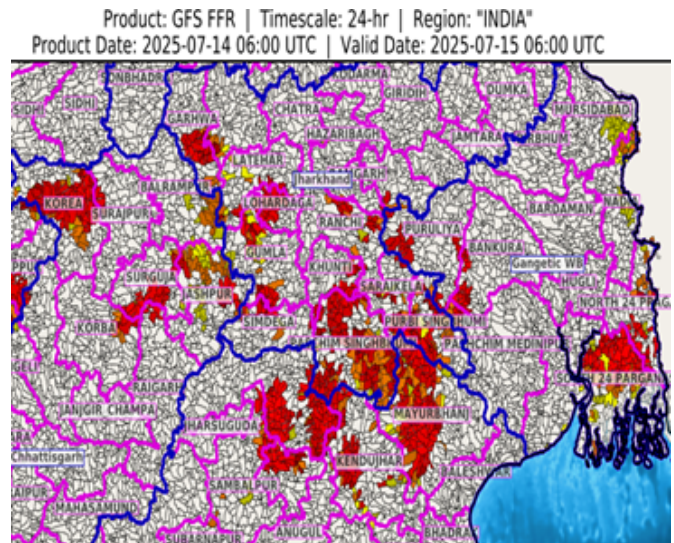
Chhattisgarh - Balarampur, Jashpur, Korba, Korea, Raigarh, Surajpur and Surguja districts.

Odisha - Deogarh, Kendujhar, Mayurbhanj, Sambalpur and Sundargarh districts.

Gangetic West Bengal - Bankura, Eastmednipur, Mursidabad, Nadia, North 24 Pragana, Pashchim Medinipur, Puruliya and South 24 Parganas districts.

Jharkhand - Bokaro, East Singhbhum, Garhwa, Gumla, Khunti, Latehar, Lohardaga, Palamu, Ranchi, Saraikela, Simdega and West Singhbhum districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.



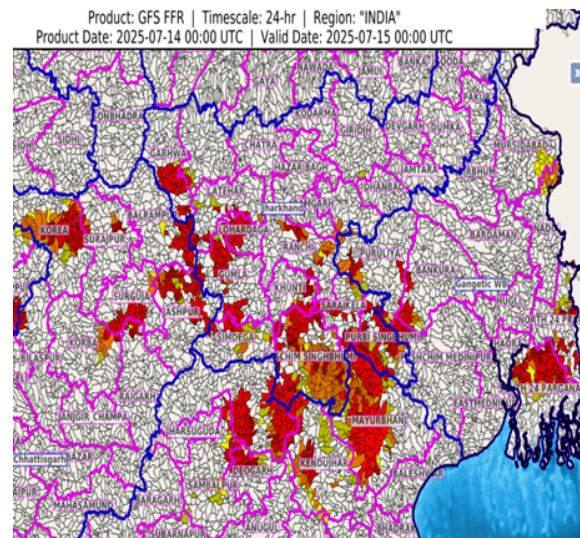
24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 15-07-2025 :

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

East Rajasthan - Ajmer, Bhilwara, Jaipur, Jhalawar, Kota, Pratapgarh, Rajsmand, Sikar, Swaimadhopur and Tonk districts.

West Rajasthan - Bikaner, Churu, Hanumangarh, Jaisalmer, Jodhpur, Nagaur and Pali districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.



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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	14- Jul	15- Jul	16- Jul	17- Jul	18- Jul	19- Jul	20- Jul
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	SCT	SCT	SCT	SCT	FWS	FWS	WS
3	ASSAM & MEHGHALAYA	FWS	WS	SCT	SCT	FWS	FWS	WS
4	N. M. M. & T.	WS	WS	WS	FWS	FWS	FWS	SCT
5	S.H. WEST BENGAL & SIKKIM	WS	FWS	FWS	SCT	SCT	WS	WS
6	GANGETIC WEST BENGAL	WS	WS	WS	FWS	FWS	SCT	SCT
7	ODISHA	WS	WS	FWS	FWS	FWS	FWS	FWS
8	JHARKHAND	WS	WS	WS	FWS	SCT	SCT	SCT
9	BIHAR	FWS	FWS	FWS	SCT	ISOL	SCT	SCT
10	EAST UTTAR PRADESH	SCT	FWS	FWS	FWS	FWS	SCT	FWS
11	WEST UTTAR PRADESH	SCT	SCT	FWS	FWS	FWS	SCT	SCT
12	UTTARAKHAND	FWS	FWS	FWS	FWS	FWS	WS	WS
13	HARYANA, CHD & DELHI	SCT	SCT	SCT	SCT	SCT	ISOL	SCT
14	PUNJAB	FWS	SCT	SCT	SCT	SCT	ISOL	SCT
15	HIMACHAL PRADESH	FWS	FWS	WS	WS	FWS	FWS	WS
16	JAMMU AND KASHMIR AND LADAKH	FWS	FWS	FWS	FWS	SCT	SCT	SCT
17	WEST RAJASTHAN	FWS	WS	FWS	FWS	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	WS	WS	FWS	SCT	SCT	ISOL	ISOL
19	WEST MADHYA PRADESH	WS	FWS	FWS	SCT	SCT	SCT	SCT
20	EAST MADHYA PRADESH	WS	FWS	FWS	WS	WS	FWS	FWS
21	GUJRAT REGION	WS	FWS	SCT	SCT	SCT	SCT	SCT
22	SAURASHTRA & KUTCH	FWS	SCT	SCT	SCT	SCT	SCT	SCT
23	KONKAN & GOA	WS	FWS	FWS	FWS	FWS	WS	WS
24	MADHYA MAHARASHTRA	FWS	SCT	ISOL	ISOL	ISOL	SCT	SCT
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	SCT	SCT	FWS	SCT	SCT	SCT	SCT
27	CHATTISGARH	FWS	FWS	SCT	SCT	SCT	SCT	FWS
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	SCT	FWS	FWS	FWS
29	TELANGANA	ISOL	ISOL	ISOL	FWS	FWS	FWS	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	WS	FWS	FWS
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
32	COSTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	FWS	WS	WS
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	FWS	WS	WS	WS	WS
35	KERALA	WS	WS	WS	WS	WS	WS	WS
36	LAKSHDWEAP	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 2025-07-14

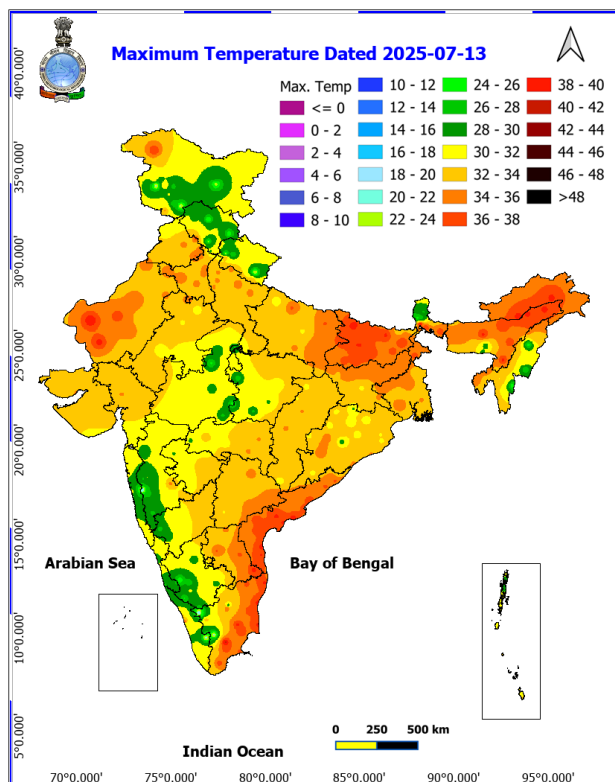


Fig. 2: Departure of Maximum Temp. Dated 2025-07-14

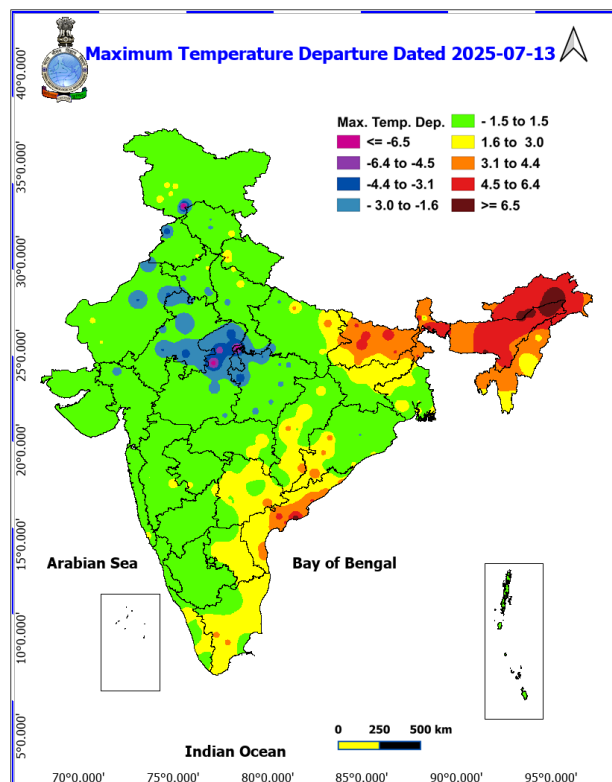


Fig. 3: Minimum Temperatures Dated 2025-07-14

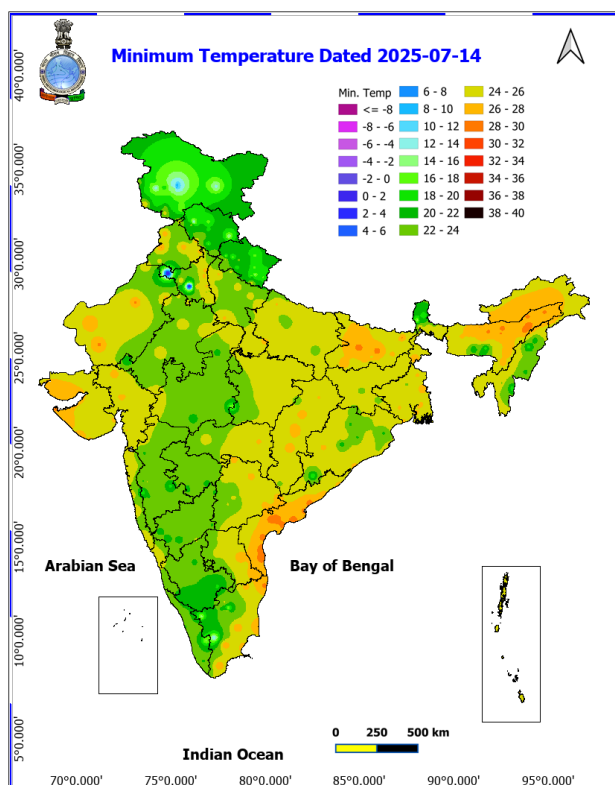
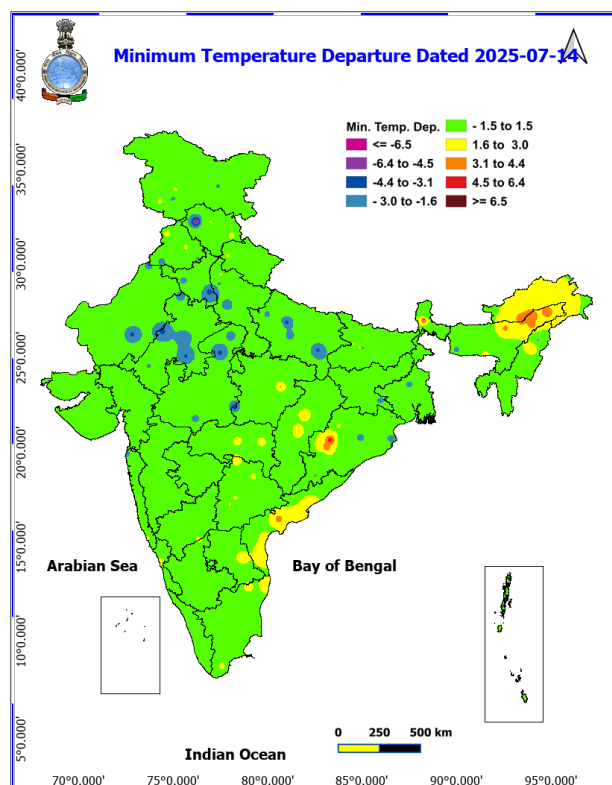
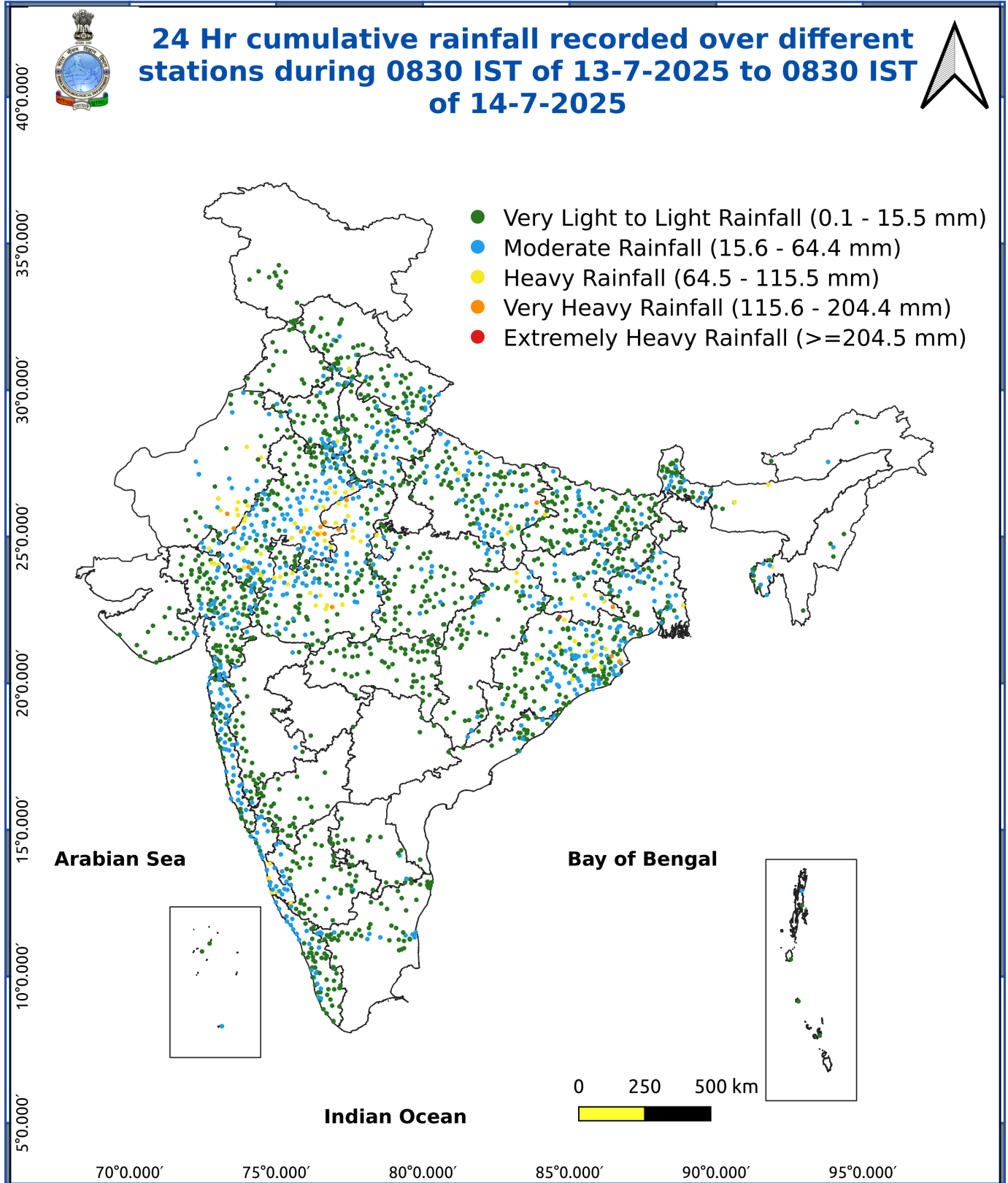


Fig. 4: Departure of Minimum Temp. Dated 2025-07-14





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Impact & Action Suggested

Extremely heavy rainfall (≥ 21 cm) very likely at isolated places over Rajasthan on 14th & 15th, Gangetic West Bengal, Odisha & Jharkhand on 14th and Chhattisgarh on 15th July.

Very heavy rainfall very likely at isolated places over Himachal Pradesh, Uttarakhand on 14th & 15th; West Rajasthan on 16th; West Madhya Pradesh, Gujarat Region on 14th, East Madhya Pradesh on 16th & 17th; Gangetic West Bengal, Odisha on 15th, Jharkhand, Chhattisgarh during 14th-16th, Bihar on 15th & 16th, East Uttar Pradesh on 17th, Kerala & Mahe, Tamil Nadu and Coastal Karnataka during 14th-20th 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

Agromet advisories for likely impact of Heavy / Heavy to Very Heavy Rainfall

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

In **East Rajasthan**, ensure proper drainage of excess water from rice nurseries and fields of maize, soybean, and black gram in the **Southeastern Humid Plain Zone**. In **Flood-Prone Eastern Plain Zone**, provide drainage in fields of pearl millet, sesame, black gram, and vegetables. In **Southern Humid Plain Zone**, postpone the sowing of soybean,

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maize, cotton, and groundnut, and ensure drainage of excess water from standing crops. In **Sub-Humid Southern Plains Zone**, postpone sowing of maize, soybean, green gram, black gram, and groundnut, and ensure drainage of excess water from standing crops. In **West Rajasthan**, postpone sowing of green gram, cluster bean, moth bean, sesame etc and make provision to drain out excess water from *kharif crops* in **Transitional Plain of Luni basin**.

In **Uttar Pradesh**, make proper arrangements for drainage in standing crops and vegetable nurseries in **Eastern Plain Zone**; fields of rice, pulses (black gram, pigeon pea etc.) and groundnut in **Central Plain Zone**; and fields of paddy, spring sugarcane, pigeon pea, maize and vegetables in **South Western Semi-Arid Zone**. In **Chitrakoot district**, avoid sowing of sesame and pearl millet and nursery sowing of vegetables (chilli, brinjal, tomato, cabbage and bitter gourd) during heavy rainfall.

In **Himachal Pradesh**, provide support to the cucumber vines and make proper drainage channels in vegetable and maize fields in **Mid Hills Sub Humid Zone**. In **Sub Montane and Low Hills Sub Tropical Zone**, ensure proper drainage in maize field to avoid water logging. Provide staking in cucumber, summer squash, bitter gourd and bottle gourd. Provide support (staking) to tall and leguminous crops.

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 **Madhya Pradesh**, postpone sowing of *kharif* crops in regions with excessive rainfall. Drain out excess water from rice nurseries and fields of soybean, maize and vegetables in **Kymore Plateau and Satpura Hill Zone**; and from rice nurseries and sugarcane in **Central Narmada Valley Zone**. Ensure proper drainage facilities in the fields of maize, soybean and vegetables in **Satpura Plateau zone**; soybean and vegetables in **Vindhya Plateau Zone**; soybean and pearl millet in **Malwa Plateau Zone**; and soybean, maize, cotton and black gram in **Jhabua Hills Zone**. In **Central Narmada Valley Zone**, avoid sowing of soybean and maize crop till the cessation of heavy rains.

In **Chhattisgarh**, make arrangements for drainage of excess water from rice fields. Provide mechanical support to orchards and other tall/weak crops with stakes or bamboo to prevent lodging or breakage. Postpone transplanting of minor millets and *kharif* vegetables like tomato, chilli, okra, brinjal, pumpkin, gourd, radish and cauliflower etc.

In **Gangetic West Bengal**, postpone transplanting of paddy nurseries and sowing of groundnut and vegetables in **Undulating Red and Laterite Zone** and **Coastal Saline Zone**. Ensure proper drainage in the standing field crops and vegetables.

In **Odisha**, ensure adequate drainage in already sown rice nurseries and fields of maize and vegetables to avoid waterlogging. Postpone sowing of paddy nurseries, maize, and vegetable transplanting in **North Central Plateau Zone**; postpone sowing of paddy nurseries, millets, arhar, maize, groundnut, and vegetables in **North Western Plateau Zone**.

In **Jharkhand**, make necessary arrangements to drain out excess water from maize fields, rice and vegetable nurseries. Cover the vegetable nurseries with polythene sheets.

In **Gujarat region**, drain out excess water from rice nurseries, sugarcane fields, banana and mango plantations to prevent waterlogging. Provide support to sugarcane with strong bamboo or tie the leaves together to prevent lodging.

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**.

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.

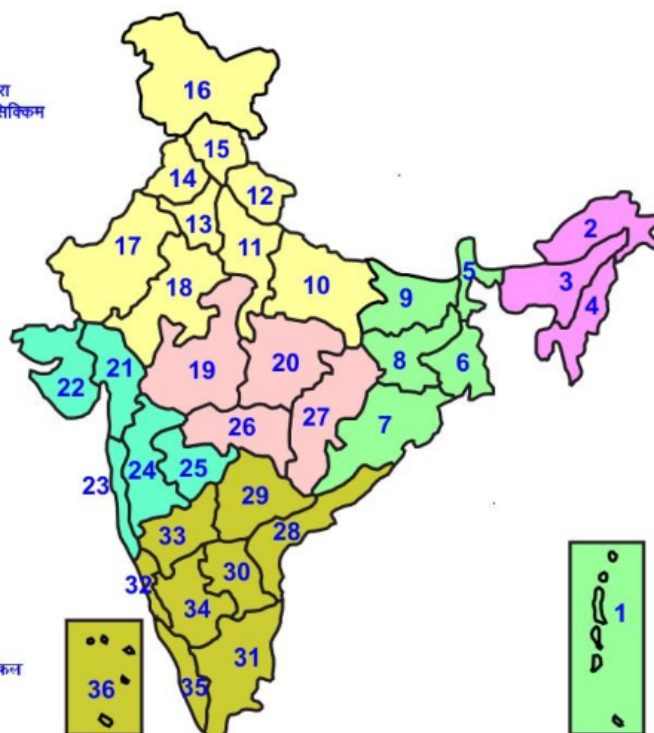
Agromet advisories for likely impact of Thunderstorm / Gusty Winds / Squally Winds

(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. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)


















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

Subdivision Colour

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

Probabilistic Forecast

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

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

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LEGENDS

WARNING

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

Probabilistic Forecast

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



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 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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