

2025-07-15

Time of Issue: 13:32:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings

Northwest India:

- Isolated **heavy rainfall** likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Uttar Pradesh during 15th-21st; Punjab during 15th-17th and 21st; Haryana on 17th & 21st; West Uttar Pradesh during 16th-21st; Rajasthan during 15th-17th July with **very heavy rainfall over Jammu & Kashmir, East Rajasthan on 15th & 16th; Uttarakhand on 17th, 20th & 21st; West Rajasthan on 15th; East Uttar Pradesh on 16th & 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:

- Isolated **heavy rainfall** very likely to continue over Madhya Pradesh during 15th-19th, Chhattisgarh, Bihar, Jharkhand during 15th-17th, Andaman & Nicobar Islands on 15th & 16th; Odisha, Sub-Himalayan West Bengal & Sikkim on 15th, 16th and during 19th-21st; Gangetic West Bengal on 15th July with **very heavy rainfall over West Madhya Pradesh on 18th, East Madhya Pradesh on 16th & 17th, Sub-Himalayan West Bengal & Sikkim, Odisha, Chhattisgarh on 15th; Bihar and Jharkhand on 15th & 16th 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 on 15th; 20th & 21st; Goa on 16th & 19th; Gujarat Region on 15th July with **very heavy rainfall** over Konkan and ghat areas of Madhya Maharashtra on 15th 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 on 15th & 16th and during 19th-21st July.

South Peninsular India:

- Isolated **heavy to very heavy rainfall** likely over Kerala & Mahe, Tamil Nadu, Coastal & South Interior Karnataka during 15th-21st; isolated **heavy rainfall** over North Interior Karnataka on 15th & 16th; Lakshadweep on 19th & 20th; Coastal Andhra Pradesh & Yanam during 17th-21st; Rayalaseema during 17th-19th and Telangana on 17th & 18th 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 on 15th; Coastal Andhra Pradesh & Yanam and Rayalaseema on 15th & 16th 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 Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, Bihar, Punjab, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, Konkan & Goa, Coastal Karnataka, Kerala & Mahe and Lakshadweep; **at many places** over Andaman & Nicobar Islands, Odisha, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Vidarbha and Chhattisgarh; **at a few places** over North Interior Karnataka and South Interior Karnataka; **at isolated places** over 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): **Jharkhand:** Rajmahal (dist Sahibganj) 19; Maharo (dist Dumka) 14; Zrs Dumka (dist Dumka) 12; Daltonganj (dist Palamu), Maheshpur (dist Pakur), Messenjar (dist Dumka), Manoharpur (dist West Singhbhum), Goilkera (dist West Singhbhum) 9 Each; Jamshedpur AP (dist East Singhbhum), Chandil (dist Seraikela-kharsawan), Rajdhanwar (dist Giridih), Chandrapura (dist Bokaro), Anandpur (dist West Singhbhum), Sisai (dist Gumla), Chainpur (dist Palamu), Manoharpur Phc (dist West Singhbhum) 8 Each; Chaibasa (dist West Singhbhum), Amrapara (dist Pakur), Jamshedpur (dist East Singhbhum), Bokaro Thermal (dist Bokaro), Gudri (dist West Singhbhum), Chakulia (dist East Singhbhum), Boram (dist East Singhbhum) 7 Each; **Konkan & Goa:** Savarde-arg (dist Ratnagiri) 19; Sudhagad Pali (dist Raigad), Chiplun (dist Ratnagiri), Rajapur (dist Ratnagiri) 14 Each; Mandangad (dist Ratnagiri), Mhasla (dist Raigad) 13 Each; Guhagarh (dist Ratnagiri), Roha (dist Raigad), Dodamarg (dist Sindhudurg) 12 Each; Mangaon (dist Raigad), Shriwardhan (dist Raigad), Ratnagiri (dist Ratnagiri), Sawantwadi (dist Sindhudurg), Sangameshwar Devrukh (dist Ratnagiri), Lanja (dist Ratnagiri) 11 Each; Kudal (dist Sindhudurg), Dapoli ARG (dist Ratnagiri), Poladpur (dist Raigad) 10 Each; Harnai IMD (dist Ratnagiri), Pen (dist Raigad), Tala (dist Raigad) 9 Each; Matheran (dist Raigad), Murud (dist Raigad), Ponda (dist North Goa), Canacona (dist South Goa), Awalegaon - ARG (dist Sindhudurg), Wakwali ARG (dist Ratnagiri), Quepem (dist South Goa) 8 Each; Sanguem (dist South Goa), Khed (dist Ratnagiri), Kankavli (dist Sindhudurg) 7 Each; **East Rajasthan:** Bijoliya SR (dist Bhilwara) 18; Bhainsroadgarh SR (dist Chittorgarh) 17; Niwai (dist Tonk) 13; Mandana SR (dist Kota) 12; Sambhar SR (dist Jaipur) 10; Rajsamand (dist Rajsamand), Naraina SR (dist Jaipur) 9 Each; Chothkabarwara SR (dist Sawai Madhopur) 8; Deogarh (dist Rajsamand), Malpura (dist Tonk), Veja SR (dist Dungarpur), Tonk Tehsil SR (dist Tonk), Lachmangarh (dist Sikar), Mavli (dist Udaipur), Piplu SR (dist Tonk), Chomu (dist Jaipur) 7 Each; **Coastal Karnataka:** Mulki (dist Dakshina Kannada) 17; Castle Rock (dist Uttara Kannada) 14; Shakti Nagar (dist Dakshina Kannada) 12; Mangaluru AP (dist Dakshina Kannada), Bantwal (dist Dakshina Kannada), Kadra (dist Uttara Kannada), Kundapur (dist Udupi) 11 Each; Kota (dist Udupi) 10; Manki (dist Uttara Kannada) 9; Ankola (dist Uttara Kannada), Shirali PTO (dist Uttara Kannada), Sulya (dist Dakshina Kannada) 8 Each; Mani (dist Dakshina Kannada), Siddapura (dist Udupi), Gokarna (dist Uttara Kannada) 7 Each; **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Udhampur(IAF) (dist Udhampur) 15; **Madhya Maharashtra:** Mahabaleshwar (dist Satara) 15; Gaganbawada (dist Kolhapur) 13; Radhanagari (dist Kolhapur) 12; Shahuwadi (dist Kolhapur), Lonavala ARG (dist Pune) 10 Each; Igatpuri (dist Nashik) 8; **Gangetic West Bengal:** Debagram (dist Nadia) 14; Tusuma (dist Purulia) 9; Midnapore (dist West Midnapore), Kharidwar (dist Purulia), Hetampur (dist Birbhum), Berhampore (dist Murshidabad) 8 Each; Kansabati Dam (dist Bankura), Rampurhat (DRMS) (dist Birbhum), Phulberia (dist Purulia), Midnapore(CWC) (dist West Midnapore), Jangipur (dist Murshidabad) 7 Each; **West Rajasthan:** Makrana SR (dist Nagaur) 14; Degana (dist Nagaur) 12; Parbatsar (dist Nagaur), Nawa (dist Nagaur) 11 Each; Pali (dist Pali) 9; Ratangarh (dist Churu), Anupgarh Tehsil SR (dist Sri Ganganagar) 8 Each; Padampur (dist Sri Ganganagar), Sedwa SR (dist Barmer) 7 Each; **Kerala & Mahe:** Kudulu (dist Kasargod) 12; Muliya AWS (dist Kasargod) 11; Bayar AWS (dist Kasargod) 10; Hosdurg (dist Kasargod), Panathur AWS (dist Kasargod) 9 Each; **Odisha:** Telkoi (dist Keonjhar) 12; Rajgangpur (dist Sundargarh) 11; Bargaon (dist Sundargarh), Reamal (dist Deogarh) 10 Each; Tensa (dist Sundargarh), Barkote (dist Deogarh), Banspal (dist Keonjhar), Kutra (dist Sundargarh) 9 Each; Batagaon (dist Sambalpur), Chendipada (dist Angul), Baripada (dist Mayurbhanj), Mandira Dam (dist Sundargarh), Lathikata (dist Sundargarh) 8 Each; Samakhunta (dist Mayurbhanj), Anandpur (dist Keonjhar), Hatadihi (dist Keonjhar), Khaira (dist Balasore), Ghasipura (dist Keonjhar) 7 Each; **Assam & Meghalaya:** Khowang (dist Dibrugarh) 12; **Sub Himalayan West Bengal & Sikkim:** Amfu Kalimpong (dist Kalimpong) 12; Kalimpong (dist Kalimpong), Ghatia T.e. (dist Jalpaiguri) 11 Each; Hilla T.e. (dist Jalpaiguri), Kurti T.e. (dist Jalpaiguri) 10 Each; Buxaduar (dist Alipurduar), Malda (dist Malda), Indong T.e. (dist Jalpaiguri), Lava (dist Kalimpong) 9 Each; Chengmari/Diana (dist Jalpaiguri), Bhagatpur Tea Estate (dist Jalpaiguri), Chalouni Tea Estate (dist Jalpaiguri) 8 Each; Darjeeling (dist Darjeeling), Rongo (dist Kalimpong), Chel (dist Jalpaiguri), Tra Nagrakata (dist Jalpaiguri), Zurrantee T.e (dist Jalpaiguri), Nagarkata (dist Jalpaiguri) 7 Each; **Punjab:**

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Bhatinda IAF (dist Bhatinda) 11; Bhatinda AMFU (dist Bhatinda) 9; Faridkot (dist Faridkot) 7; **East Uttar Pradesh:** Chhibramau (dist Kannauj) 9; **South Interior Karnataka:** Agumbe AWS (dist Shivamogga) 9; **West Uttar Pradesh:** Karhal (dist Mainpuri) 8; **Chhattisgarh:** Latori (dist Surajpur) 8; Chando (dist Balrampur) 7; **Gujarat Region:** Vansda (dist Navsari) 8; Saraswati (dist Patan), Dediapada (dist Narmada) 7 Each; **East Madhya Pradesh:** Sidhi (gopadbanas) (dist Sidhi) 7; **North Interior Karnataka:** Londa (dist Belagavi) 7; **Arunachal Pradesh:** Deomali AWS (dist Tirap) 7; **Bihar:** Sangrampur (dist Monghyr), Amdabad (dist Katihar) 7 Each.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rain** at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Jharkhand, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka and Kerala & Mahe. **Heavy rain** at a few places over Konkan & Goa and Coastal Karnataka and at isolated places over Arunachal Pradesh, Bihar, East Uttar Pradesh, West Uttar Pradesh, Punjab, East Madhya Pradesh, Gujarat Region, Chhattisgarh, North Interior Karnataka and South Interior Karnataka.

❖ **Minimum Temperature Departures (as on 15-07-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, West Madhya Pradesh and Saurashtra & Kutch. **appreciably above normal(3.1°C to 5.0°C)** at few places over East Madhya Pradesh and Gujarat Region; at isolated places over Sub Himalayan West Bengal & Sikkim, Odisha and Coastal Andhra Pradesh & Yanam. **above normal(1.6°C to 3.0°C)** at few places over Vidarbha, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal and Lakshadweep; at isolated places over Andaman & Nicobar Islands, Bihar, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, Telangana, Rayalaseema and South Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Gangetic West Bengal, Jharkhand, East Uttar Pradesh, West Uttar Pradesh and Kerala & Mahe; at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Punjab, Himachal Pradesh, Konkan & Goa, Marathwada, Coastal Karnataka and North Interior Karnataka; at few places over Haryana-Chandigarh-Delhi, West Rajasthan and East Rajasthan. **The lowest minimum temperature** of 18.4°C is reported at KHARGONE-OBS (MADHYA PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 14-07-2025): markedly above normal(> 5.1°C)** at most places over Arunachal Pradesh; at few places over Assam & Meghalaya; at isolated places over Coastal Andhra Pradesh & Yanam. **appreciably above normal(3.1°C to 5.0°C)** at few places over Sub Himalayan West Bengal & Sikkim and Chhattisgarh; at isolated places over Odisha, Bihar, West Uttar Pradesh, Vidarbha, Telangana, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. **above normal(1.6°C to 3.0°C)** at few places over Marathwada, Rayalaseema and Kerala & Mahe; at isolated places over Andaman & Nicobar Islands, East Uttar Pradesh, Uttarakhand, West Rajasthan, Saurashtra & Kutch and Madhya Maharashtra. **near normal(-1.5°C to 1.5°C)** at many places over Konkan & Goa and Coastal Karnataka; at most places over Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, Gujarat Region, South Interior Karnataka and Lakshadweep; at few places over Gangetic West Bengal, Jharkhand, Haryana-Chandigarh-Delhi, Punjab, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh and East Madhya Pradesh. **The highest maximum temperature** of 40.2°C is reported at RENTACHINTALA (ANDHRA PRADESH).

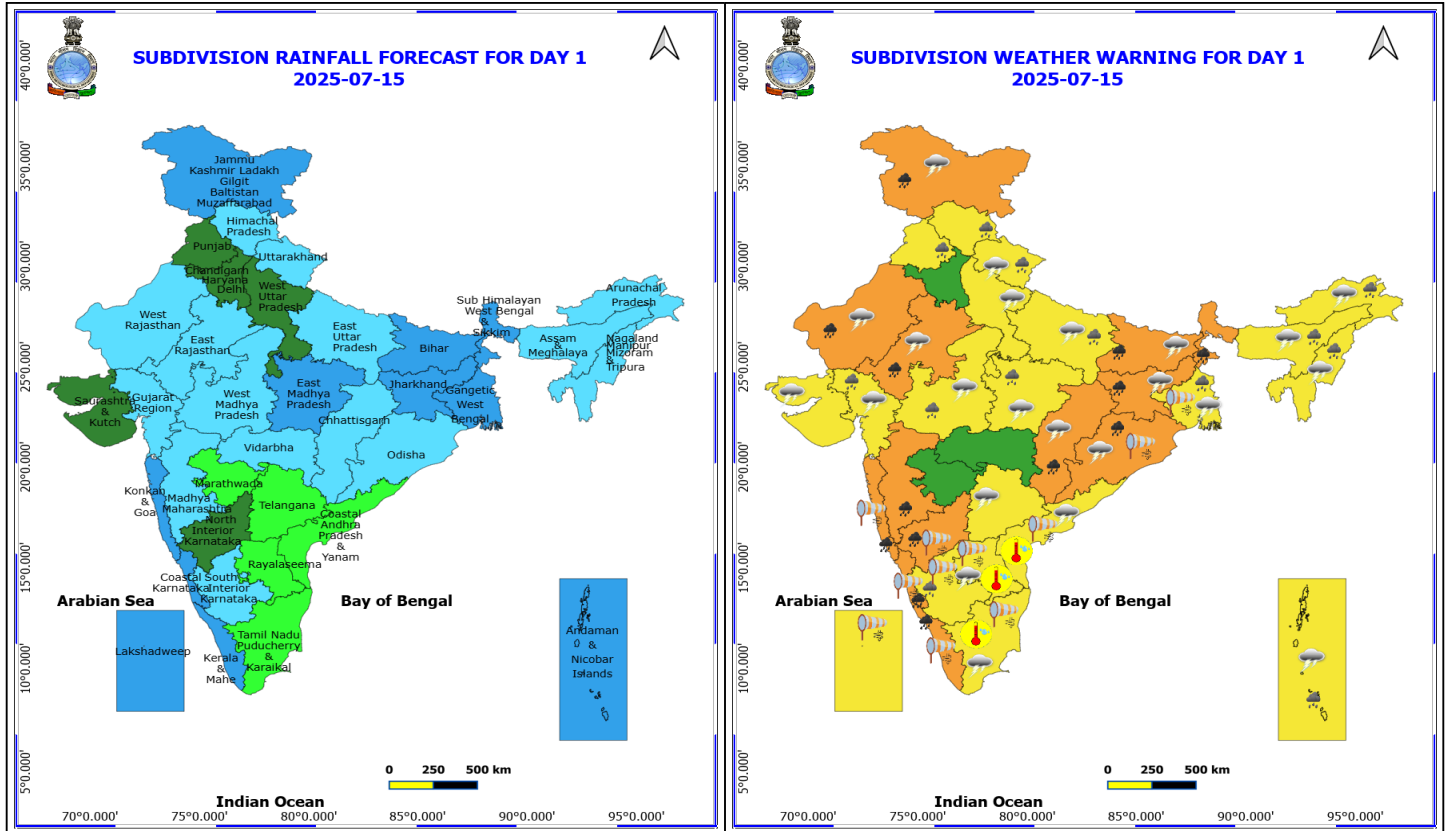


Meteorological Analysis (Based on 0830 hours IST)

- The **well marked Low Pressure area** over central parts of north Rajasthan moved slowly west-northwestwards, concentrated into a **Depression** and lay centred at 0830 hrs IST of today, the 15th July, 2025 over the same region, near latitude 27.4°N and longitude 75.4°E, about 40 km southeast of Sikar and 110 km south-southeast of Churu. It is likely to continue to move slowly west-northwestwards across north Rajasthan during next 24 hours.
- The **Depression** over Jharkhand and neighbourhood moved west-northwestwards, weakened into a well marked low pressure area and lay over north Jharkhand and adjoining south Bihar at 0830 hrs IST of today, the 15th July 2025. It is likely to move further west-northwestwards across Jharkhand and south Bihar towards east Uttar Pradesh during next 24 hours.
- The **monsoon trough** at mean sea level now passes through Bikaner, centre of **Depression** over central parts of north Rajasthan, Hamirpur, center of **well marked low Pressure area** over north Jharkhand and adjoining south Bihar, Contai and thence East-northeastwards of northeast Bay of Bengal.
- The **Western Disturbance** as a trough in middle tropospheric levels with its axis at 5.8 km above mean sea level roughly along Long. 66°E to the north of Lat. 28°N persists.

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.



15 July (Day 1)

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

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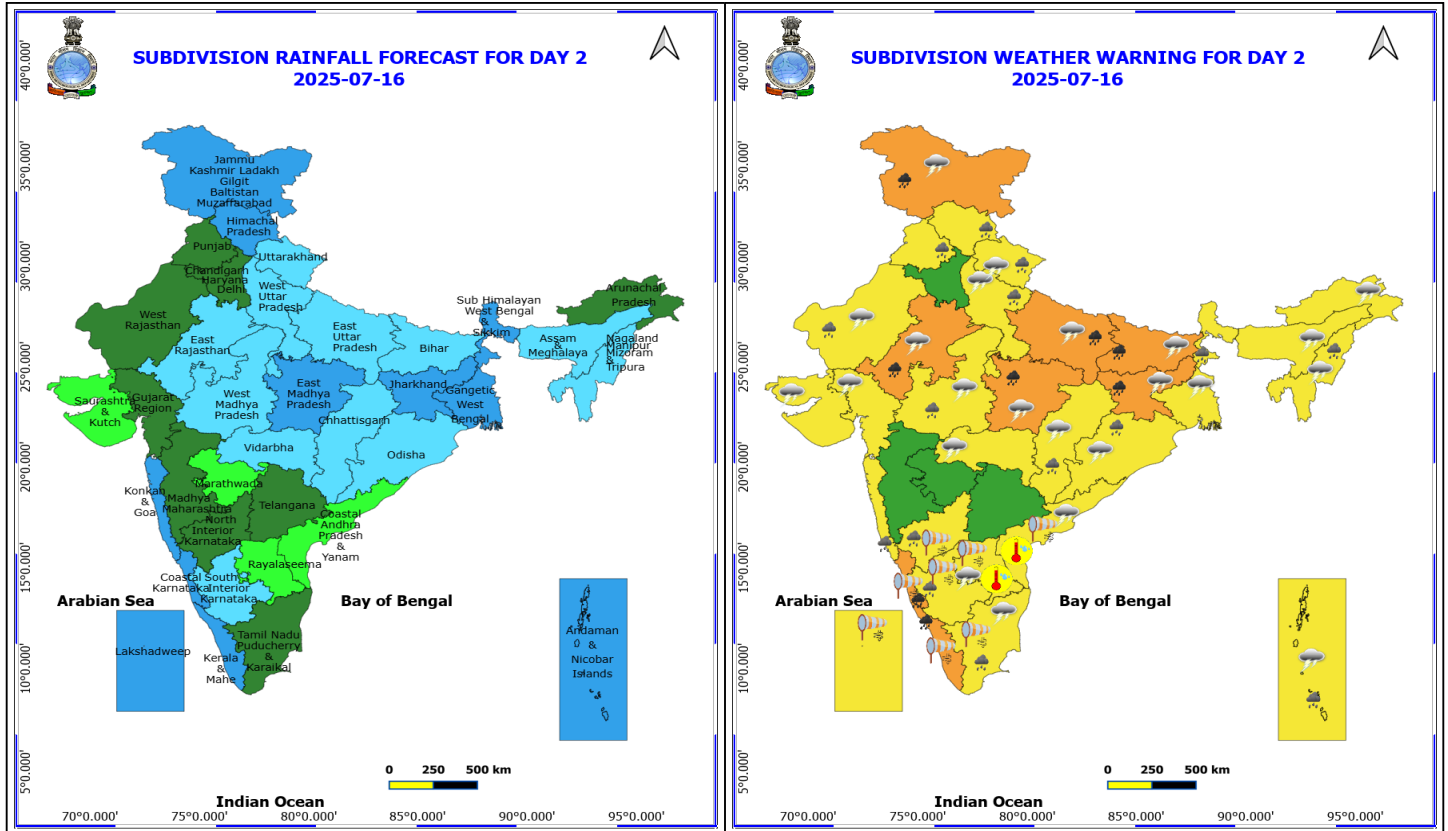
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eastcentral Arabian Sea & adjoining westcentral, southeast Arabian Sea, along and off Konkan & Goa, Karnataka, Kerala coasts, over Lakshadweep area, Gulf of Mannar, Comorin area, over some parts of southwest & few parts of westcentral Bay of Bengal, over southern parts of south Bay of Bengal.



16 July (Day 2)

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

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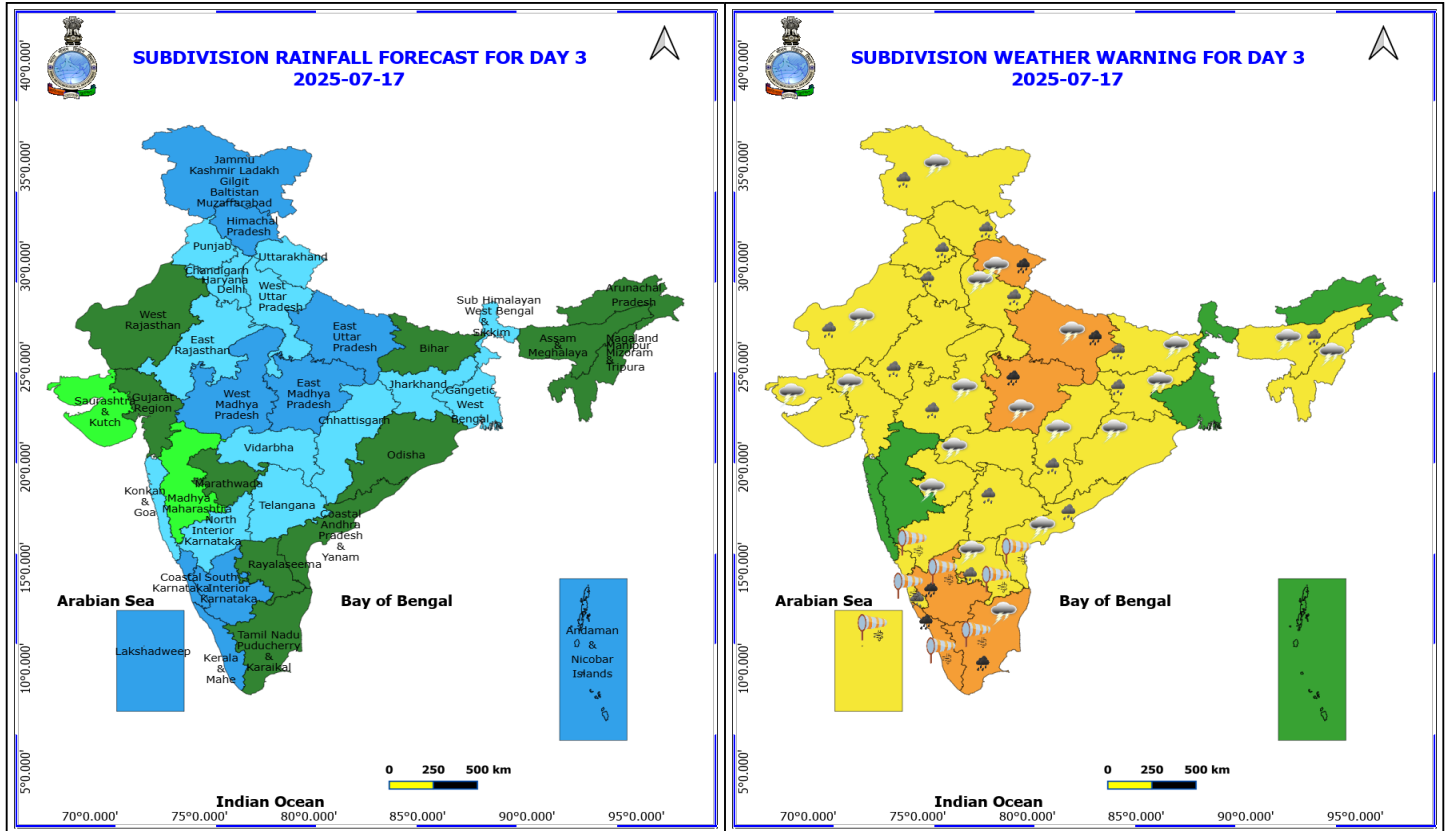
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eastcentral Arabian Sea, adjoining and some parts of westcentral Arabian Sea, & adjoining, northern parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep area, Comorin area, most parts of southwest Bay of Bengal and adjoining parts of southeast & westcentral Bay of Bengal, over Gulf of Mannar, off Sri Lanka coast.



17 July (Day 3)

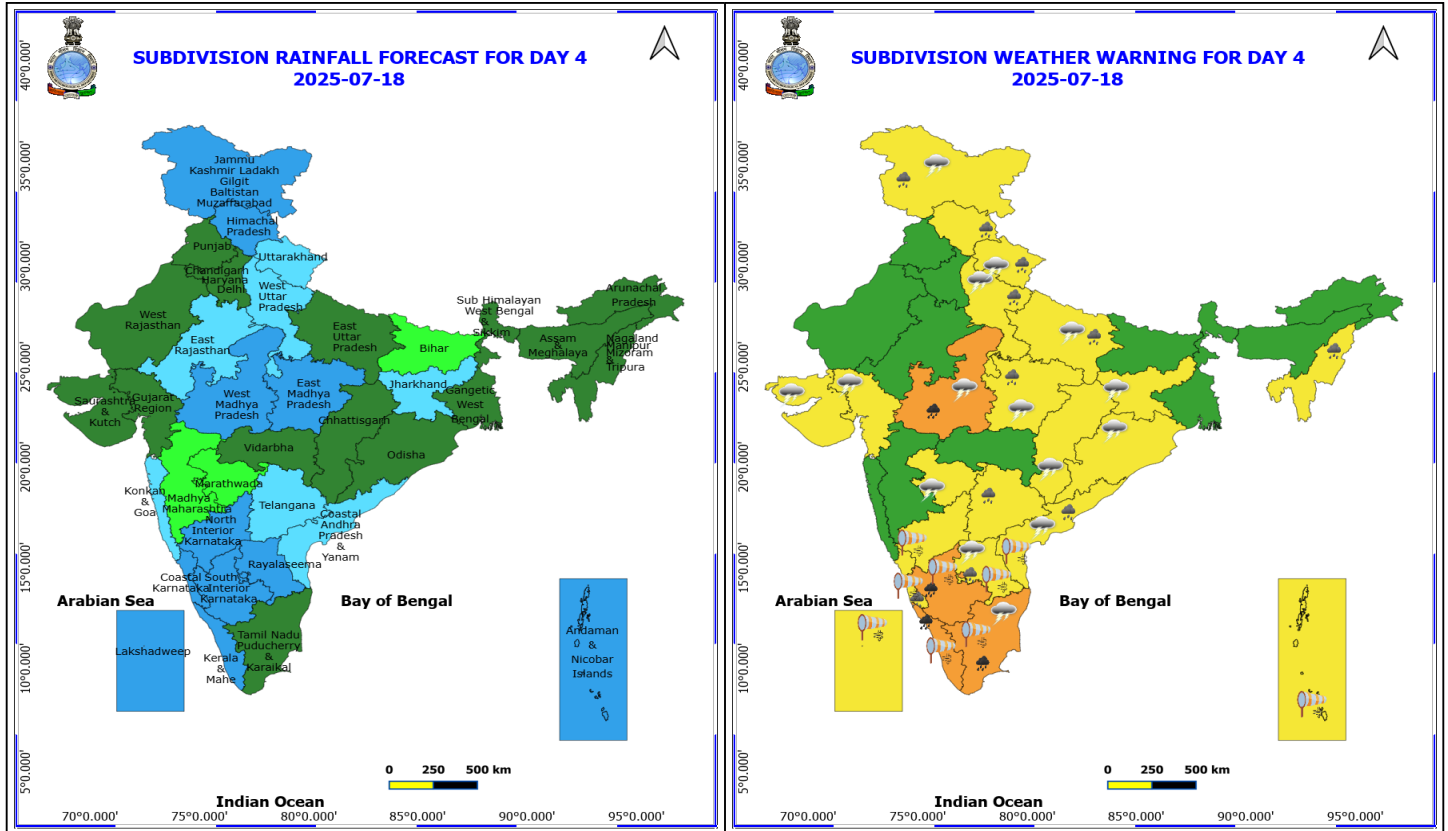
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over East Madhya Pradesh, East Uttar Pradesh, Kerala & Mahe, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Coastal Karnataka, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Punjab, Rajasthan, Telangana, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, Gujarat State, Jharkhand, Madhya Pradesh, Marathwada, Nagaland, Manipur, Mizoram and Tripura, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh, Uttarakhand, Vidarbha and West Rajasthan.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh, 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 & 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, many parts of southwest Bay of Bengal and adjoining parts of southeast & westcentral Bay of Bengal, over Gulf of Mannar, off Sri Lanka coast.

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18 July (Day 4)

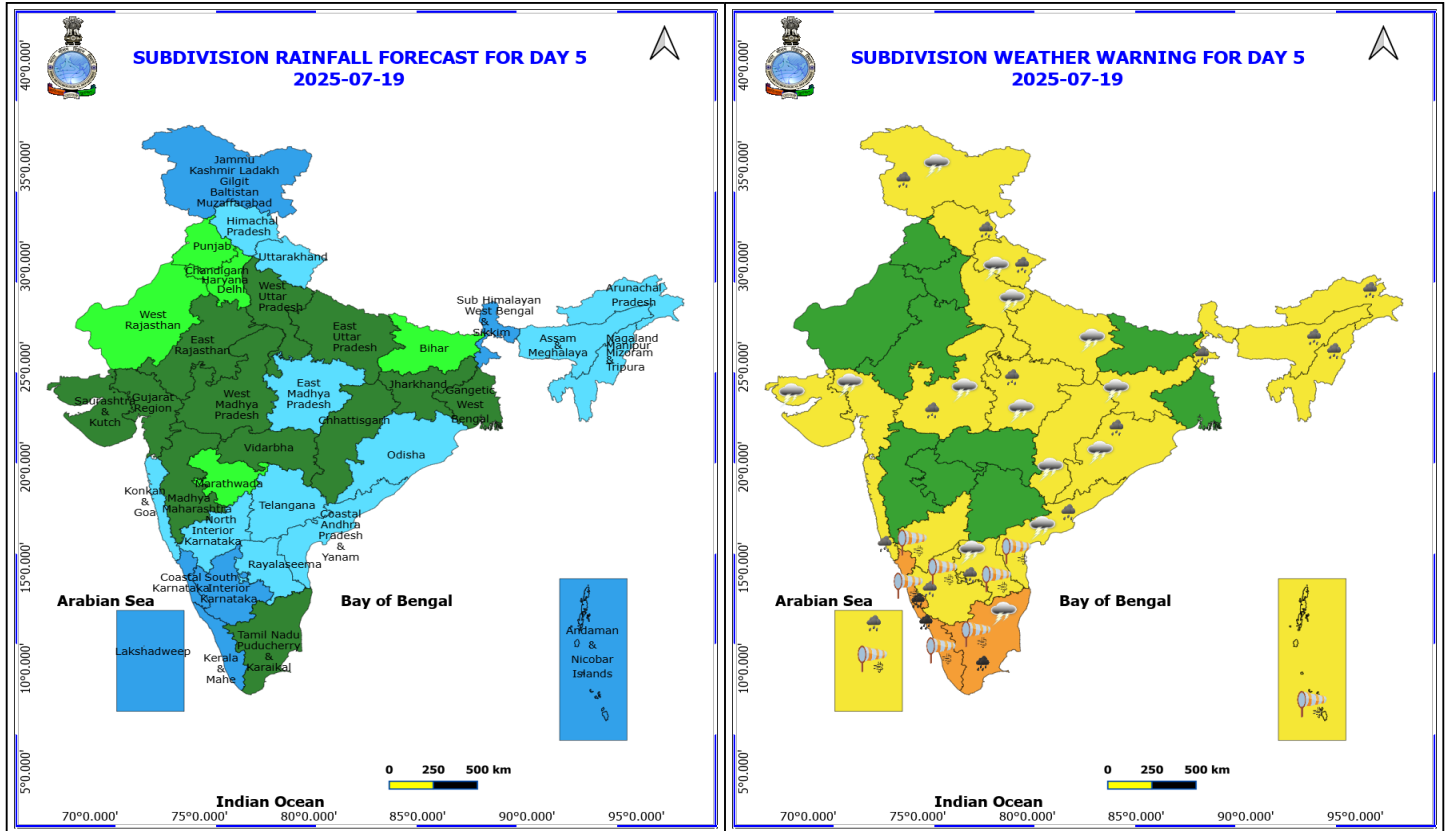
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Kerala & Mahe, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal and West Madhya Pradesh.
- ❖ **Heavy Rainfall** likely at isolated places over Andhra Pradesh, Coastal Karnataka, East Madhya Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad,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

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19 July (Day 5)

❖ **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, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Lakshadweep, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Uttarakhand.

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha and Uttarakhand.

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Gujarat State, Jharkhand, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal and Uttar Pradesh.

❖ **Strong Surface Winds** likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Karnataka, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.

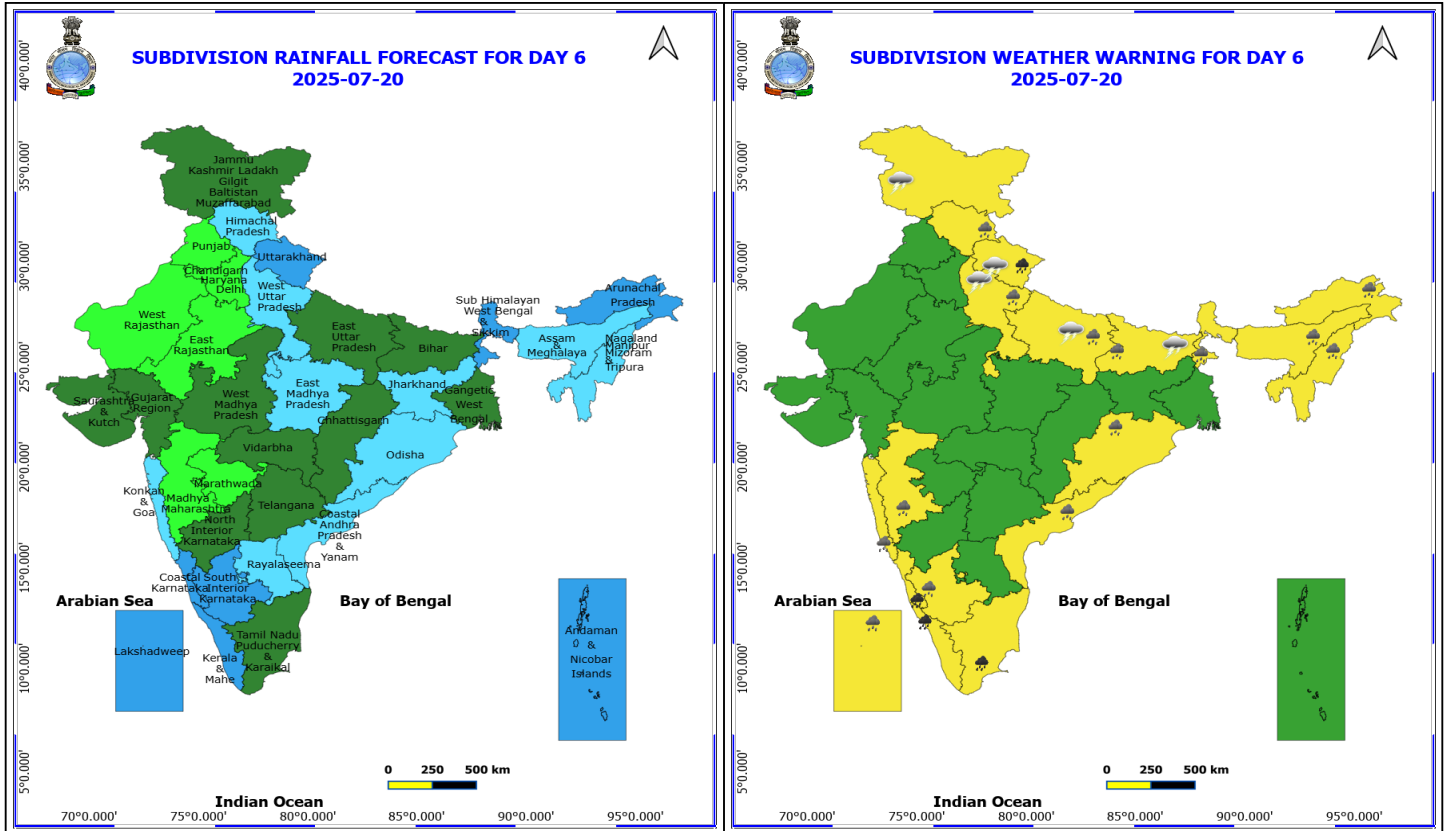
- Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.
- Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over southern parts of north Arabian Sea, most parts of eastcentral Arabian Sea, adjoining and many parts of westcentral Arabian Sea, northern parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep, Maldives, Comorin areas, most parts of south Bay of Bengal & adjoining westcentral Bay of Bengal, over Gulf of Mannar, off Sri Lanka coast, over Andaman Sea.

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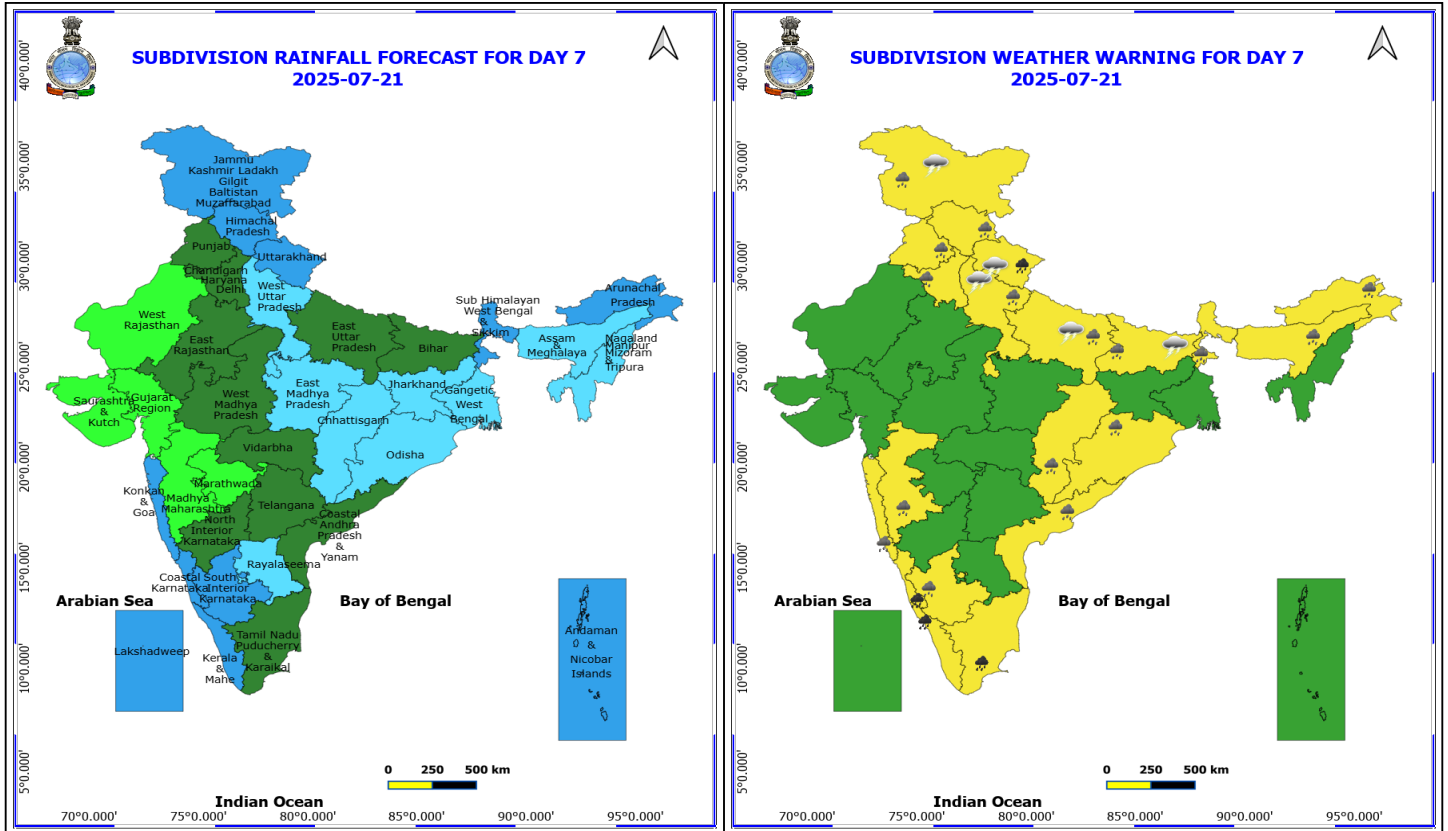
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20 July (Day 6)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Karnataka, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Coastal Andhra Pradesh, Himachal Pradesh, Konkan & Goa, Lakshadweep, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Odisha, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Uttar Pradesh.
- ❖ **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



21 July (Day 7)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Coastal Karnataka, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Coastal Andhra Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Madhya Maharashtra, Odisha, Punjab, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Uttar Pradesh.
- ❖ **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

Flash Flood Warnings

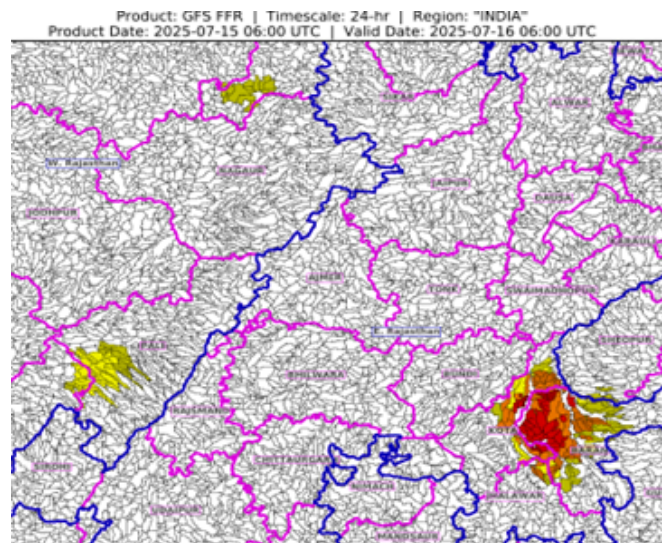
24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 16-07-2025 :

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

East Rajasthan - Baran, Jhalawar and Kota districts.

West Rajasthan - Churu, Jalor 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.



24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 16-07-2025 :

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

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

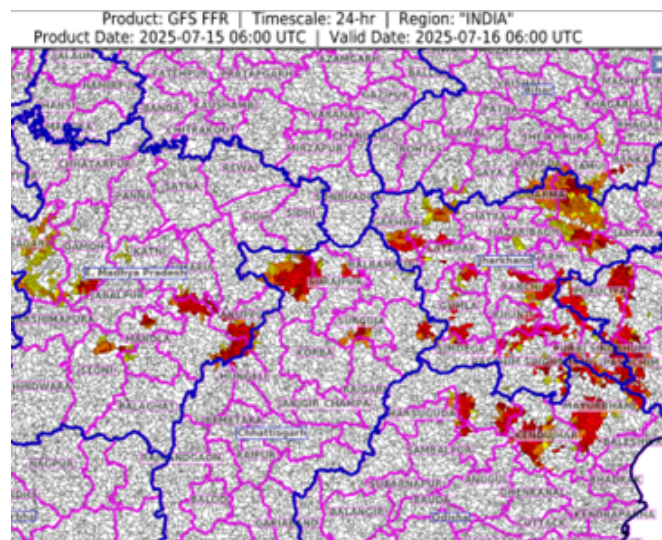
East Madhya Pradesh - Anuppur, Damoh, Dindori, Katni, Mandla, Sagar, Seoni, Shahdol and Umaria districts.

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

Gangetic West Bengal - Bankura, Pashchim Medinipur and Puruliya districts.

Jharkhand - Bokaro, Dhanbad, East Singhbhum, Garhwa, Giridih, Gumla, Hazaribagh, Khunti, Koderma, Latehar, Lohardaga, Palamu, Ramgarh, 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.



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Table-1

7 Days Rainfall Forecast

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

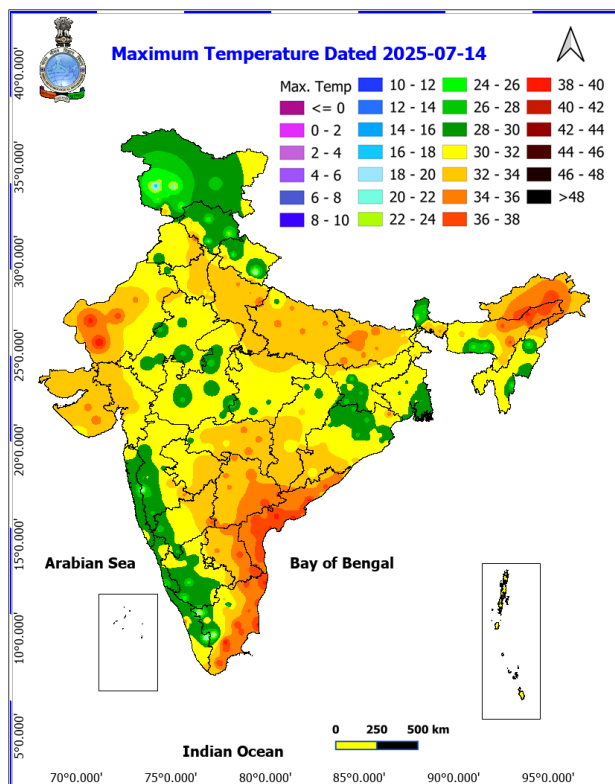


Fig. 2: Departure of Maximum Temp. Dated 2025-07-15

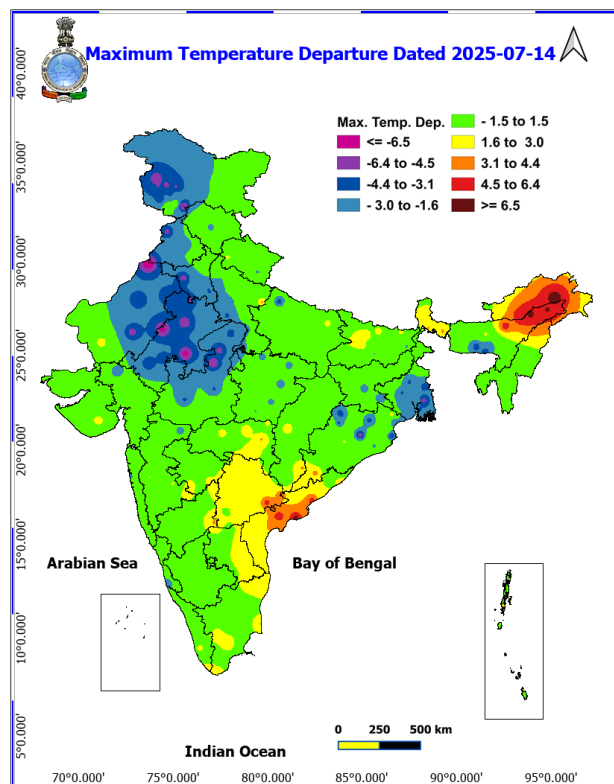


Fig. 3: Minimum Temperatures Dated 2025-07-15

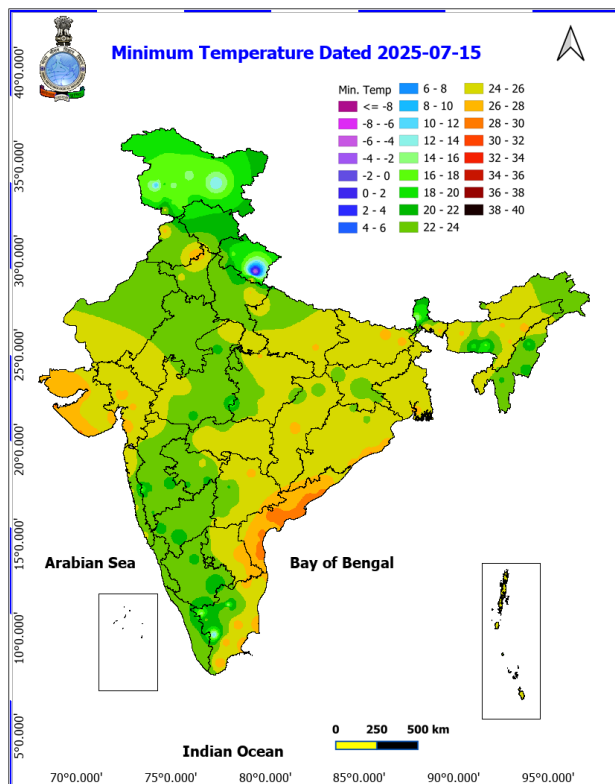
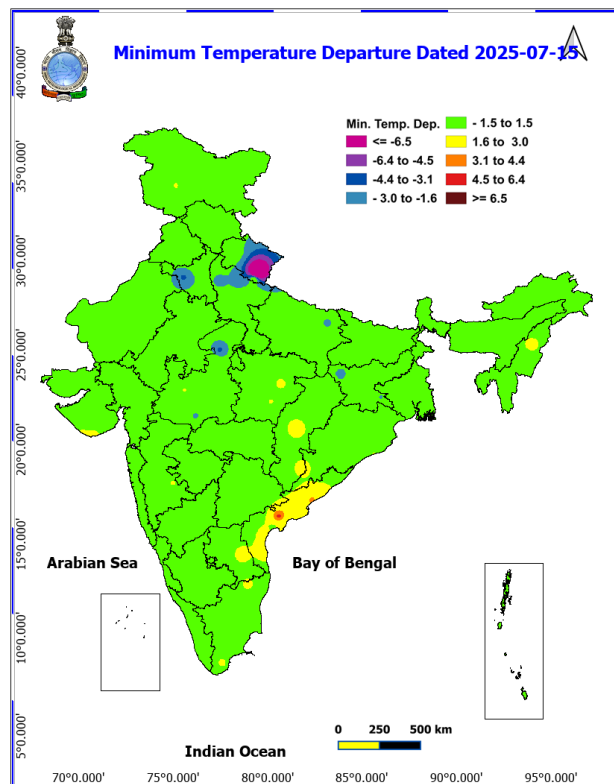
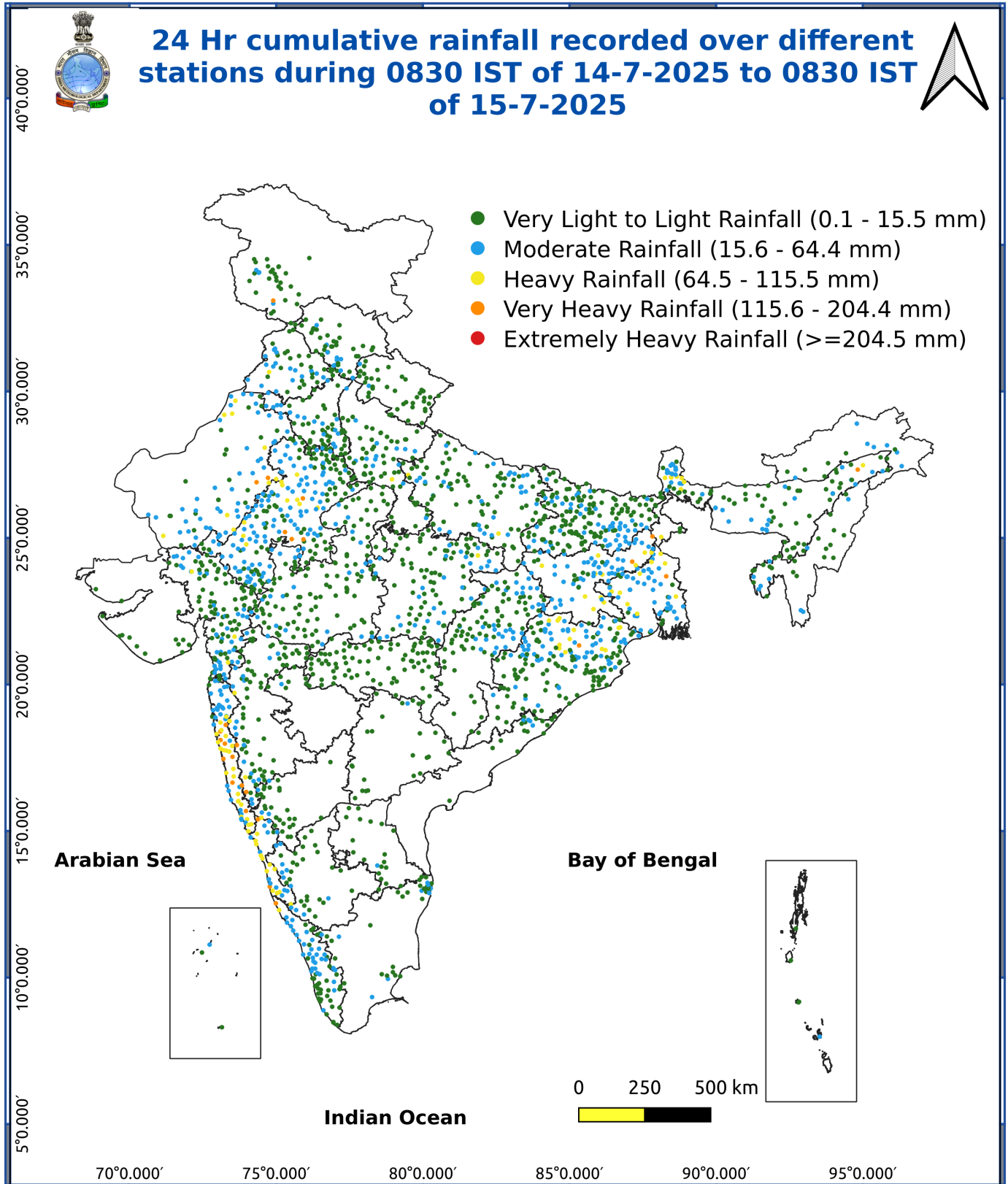


Fig. 4: Departure of Minimum Temp. Dated 2025-07-15





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Impact & Action Suggested

- **Very heavy rainfall very likely at isolated places over** Jammu & Kashmir, East Rajasthan, Bihar and Jharkhand on 15th & 16th; Uttarakhand on 17th, 20th & 21st; West Rajasthan, Konkan and ghat areas of Madhya Maharashtra, Sub-Himalayan West Bengal, Odisha, Chhattisgarh on 15th; East Uttar Pradesh on 16th & 17th July. West Madhya Pradesh on 18th, East Madhya Pradesh on 16th & 17th, Kerala & Mahe, Tamil Nadu, Coastal & South Interior Karnataka during 15th-21st 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 **Rajasthan**, make provision to drain out excess water from rice nurseries and fields of maize, soybean and black gram in **Southeastern Humid Plain Zone**, fields of pearl millet, sesame, black gram and vegetables in **Flood Prone Eastern Plain Zone**, soybean, maize, cotton and groundnut fields in **Southern Humid Plain Zone**, pearl millet and groundnut fields in **Semi Arid Eastern Plain Zone**, maize and soybean fields in **Sub Humid Southern Plain and Aravali Hill Zone** and green gram, cluster bean and sesame in **Arid Western Plain Zone**.

In **Jammu & Kashmir**, provide adequate drainage facilities in fields of maize and transplanted rice in **Sub Tropical Zone** and maize fields in **Intermediate Zone**.

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**, make provision to drain out excess water from rice nurseries and fields of soybean, maize and vegetables in **Kymore Plateau and Satpura Hill Zone** and soybean and pearl millet in **Malwa Plateau Zone** and **Gird Zone**.

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 **West Bengal**, ensure proper drainage facilities in fields of rice and *kharif* groundnut in **Laterite and Red Soil Zone**, sesame, jute and groundnut in **New Alluvial Zone** and finger millet, soybean, ginger, turmeric, vegetables and fruit

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orchards in **Hill Zone**.

In **Odisha**, drain out excess water from rice nurseries and transplanted rice fields, maize, vegetables and banana plantations in **North Central Plateau Zone**, rice nurseries and transplanted rice fields, maize, pulses and vegetables in **North Eastern Plateau Zone**, rice nurseries, vegetables and fruit orchards in **North Eastern Coastal Plain Zone** and rice nurseries and transplanted rice fields, maize, vegetables and fruit orchards in **West Central Table land 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 **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.

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 **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.

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


 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

| |
|-------------------------------|
| 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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