

2026-07-19

Time of Issue: 13:43:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather forecast and Warnings:

Northwest India:

Fairly Widespread to Widespread rainfall likely over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand during 19th-25th July.

Fairly Widespread to Widespread rainfall likely over Haryana Chandigarh & Delhi and Punjab during 20th-23rd July; East Uttar Pradesh and West Uttar Pradesh during 19th-24th July; East Rajasthan during 23rd-25th July.

Isolated to Scattered rainfall likely over Haryana Chandigarh & Delhi and Punjab on 19th July and during 24th-25th July; East Uttar Pradesh and West Uttar Pradesh on 25th July; West Rajasthan during 19th-25th July; East Rajasthan during 19th-22nd July.

Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 19th-23rd July.

Isolated thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) likely over West Rajasthan during 20th-25th July; East Rajasthan during 19th-25th July.

Isolated thunderstorm & lightning likely over Uttarakhand during 19th-25th July; East Uttar Pradesh and West Uttar Pradesh during 19th-22nd July.

Isolated heavy rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 20th-22nd July; Himachal Pradesh during 20th-21st July and on 23rd July; Uttarakhand during 19th-20th July and during 22nd-25th July; Haryana Chandigarh & Delhi and Punjab on 19th July and on 23rd July; East Uttar Pradesh and West Uttar Pradesh during 23rd-25th July; West Rajasthan during 21st-24th July; East Rajasthan during 20th-25th July with isolated **very heavy rainfall** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 19th July and on 23rd July; Himachal Pradesh on 19th July and on 22nd July; Uttarakhand on 21st July; Haryana Chandigarh & Delhi and Punjab during 20th-22nd July; East Uttar Pradesh and West Uttar Pradesh during 19th-22nd July.

Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Uttarakhand on 19th & 20th; Jammu-Kashmir during 20th -22nd and Himachal Pradesh on 20th & 21st July.

Central India:

Isolated to Scattered rainfall likely over West Madhya Pradesh during 19th-21st July; Vidarbha during 20th-21st July and on 25th July.

Fairly Widespread to Widespread rainfall likely over West Madhya Pradesh during 22nd-25th July; Chhattisgarh and East Madhya Pradesh during 19th-25th July; Vidarbha on 19th July and during 22nd-24th July.

Isolated thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) likely over East Madhya Pradesh and West Madhya Pradesh during 19th-23rd July.

Isolated thunderstorm & lightning likely over Chhattisgarh and Vidarbha during 19th-23rd July.

Isolated heavy rainfall likely over West Madhya Pradesh on 20th July and during 22nd-23rd July; East Madhya Pradesh during 19th-23rd July; Vidarbha on 19th July and during 22nd-23rd July; Chhattisgarh during 20th-23rd July with isolated **very heavy rainfall** also likely over Chhattisgarh on 19th July.

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East India:

Isolated to Scattered rainfall likely over Andaman & Nicobar Islands and Odisha during 19th-25th July; Bihar during 22nd-25th July.

Fairly Widespread to Widespread rainfall likely over Gangetic West Bengal, Jharkhand and Sub-Himalayan West Bengal & Sikkim during 19th-25th July; Bihar during 19th-21st July.

Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Odisha during 19th-20th July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands during 19th-24th July; Bihar during 19th-25th July.

Isolated **thunderstorm & lightning** likely over Sub-Himalayan West Bengal & Sikkim during 19th-25th July.

Isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 19th July and during 21st-22nd July; Gangetic West Bengal during 21st-22nd July; Jharkhand during 19th-21st July; Bihar during 21st-24th July; Odisha during 19th-22nd July with isolated **very heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim on 20th July; Bihar during 19th-20th July.

Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim on 19th July.

Northeast India:

Fairly Widespread to Widespread rainfall likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 19th-25th July.

Isolated **thunderstorm & lightning** likely over Arunachal Pradesh during 19th-20th July; Assam & Meghalaya during 19th-21st July.

Isolated **heavy rainfall** likely over Arunachal Pradesh on 20th July and during 24th-25th July; Assam & Meghalaya on 19th July and during 21st-25th July; Nagaland, Manipur, Mizoram & Tripura during 20th-25th July with isolated **very heavy rainfall** also likely over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura on 19th July; Assam & Meghalaya on 20th July.

Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Meghalaya on 19th July.

West India:

Fairly Widespread to Widespread rainfall likely over Konkan & Goa during 19th-25th July; Madhya Maharashtra on 19th July and during 23rd-24th July; Marathwada on 23rd July.

Isolated to Scattered rainfall likely over Madhya Maharashtra during 20th-22nd July and on 25th July; Marathwada during 19th-22nd July and during 24th-25th July; Gujarat Region and Saurashtra & Kutch during 19th-25th July.

Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Madhya Maharashtra and Marathwada on 23rd July.

Isolated **thunderstorm & lightning** likely over Madhya Maharashtra and Marathwada on 19th July.

Isolated **heavy rainfall** likely over Konkan & Goa and Madhya Maharashtra during 19th-23rd July; Gujarat Region during 19th-25th July; Saurashtra & Kutch on 19th July with isolated **very heavy rainfall** also likely over Madhya Maharashtra on 19th July.

South Peninsular India:

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Isolated to Scattered rainfall likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Telangana during 19th-25th July; Kerala & Mahe and Lakshadweep during 21st-23rd July; North Interior Karnataka and South Interior Karnataka during 20th-25th July.

Fairly Widespread to Widespread rainfall likely over Kerala & Mahe and Lakshadweep during 19th-20th July and during 24th-25th July; Coastal Karnataka during 19th-25th July; North Interior Karnataka and South Interior Karnataka on 19th July.

Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over North Interior Karnataka and Rayalaseema during 19th-20th July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Coastal Karnataka during 19th-20th July; South Interior Karnataka during 19th-23rd July; Coastal Andhra Pradesh & Yanam on 19th July; Rayalaseema during 21st-23rd July; Telangana during 19th-25th July.

Isolated **heavy rainfall** likely over Kerala & Mahe during 19th-20th July; Coastal Andhra Pradesh & Yanam, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka and Telangana on 19th July.

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

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Assam & Meghalaya**: Cherrapunji(rkm) (dist East Khasi Hills) 27; Mawsynram (dist East Khasi Hills) 20; Mawkyrwat (dist South West Khasi Hills) 18; Cherrapunji (dist East Khasi Hills), Sonari ARG (dist Charaideo) 16 Each; Gossaigaon AWS (dist Kokrajhar), Mawkyrwat AWS (dist South West Khasi Hills) 12 Each; Gossaigaon (dist Kokrajhar) 11; Moranhat (dist Dibrugarh), Sivasagar AWS (dist Sibsagar) 9 Each; Margherita (dist Tinsukia), Jorhat (dist Jorhat), Udaipur (dist Tinsukia) 8 Each; **Nagaland, Manipur, Mizoram & Tripura**: Tuli Nsdma AWS (dist Mokokchung) 20; Mokokchung (dist Mokokchung) 8; **Sub Himalayan West Bengal & Sikkim**: Murti (dist Jalpaiguri) 17; Nh31 Bridge (dist Jalpaiguri), Jalpaiguri (dist Jalpaiguri) 14 Each; Dalgaon Tea Estate (dist Alipurduar) 13; Chengmari/Diana (dist Jalpaiguri), Alipurduar PTO (dist Alipurduar), Nagarkata (dist Jalpaiguri), Patkapara Tea Estate (dist Alipurduar), Raidak Tea Estate (dist Alipurduar) 12 Each; Domohani (dist Jalpaiguri), Buxaduar (dist Alipurduar), Amfu Pundibari (dist Cooch Behar) 11 Each; Maynaguri College (dist Jalpaiguri), Moraghat Tea Estate (dist Jalpaiguri), Tra Nagrakata (dist Jalpaiguri), Beech Tea Garden (dist Alipurduar), Newlands Tea Garden (dist Alipurduar) 10 Each; Mekhliganj (dist Cooch Behar), Ghish (dist Jalpaiguri), Kurti T.e. (dist Jalpaiguri), Mogulkata Tea Estate (dist Jalpaiguri), Kumargram Tea Estate (dist Alipurduar), Majherdabri Tea Garden (dist Alipurduar), Subhasini Tea Estate (dist Alipurduar) 9 Each; Mathabhanga (dist Cooch Behar), Hasimara (dist Alipurduar), Chepan (dist Alipurduar), Aibheel Tea Estate (dist Jalpaiguri), Baintgoorie T.e. (dist Jalpaiguri), Baradighi T.e. (dist Jalpaiguri), Bhagatpur Tea Estate (dist Jalpaiguri), Kumlai T.e. (dist Jalpaiguri), Palashbari Tea Estate (dist Jalpaiguri), Siliguri PTO (dist Darjeeling), Sankos Tea Estate (dist Alipurduar) 8 Each; **Konkan & Goa**: Wakwali ARG (dist Ratnagiri) 15; Khed (dist Ratnagiri) 14; Talasari (dist Palghar) 10; **Bihar**: Taibpur (dist Kishanganj) 14; Hoswari (dist Patna) 12; Mokama (dist Patna), Kursakanta (dist Araria), Bidupur (dist Vaishali) 11 Each; Suryagadha (dist Lakhisarai) 10; Dhengraghat (dist Purnea) 9; Forbesganj (dist Araria), Sherghati (dist Gaya), Galgalia (dist Kishanganj), Araria (dist Araria), Jokihat (dist Araria), Harnaut (dist Nalanda), Sarmera (dist Nalanda), Shamho Akha Kurha (dist Begusarai) 8 Each; **Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad**: Rajouri ARG (dist Rajouri) 13; Reasi ARG (dist Reasi), Reasi Kvk AWS (dist Reasi) 11 Each; Udhampur(IAF) (dist Udhampur) 10; Poonch (dist Poonch), Rajouri (dist Rajouri), Katra (dist Reasi) 8 Each; **Arunachal Pradesh**: Wakro AWS (dist Lohit) 13; Miao (dist Changlang) 10; Deomali AWS (dist Tirap) 8; **East Madhya Pradesh**: Channodi (dist Shahdol) 12; Rampur Baghelan (dist Satna), Bilhari (dist Katni) 8 Each; **East Uttar Pradesh**: Elgin Bridge (dist Barabanki) 12; Banda CWC (dist Banda), Beberu (dist Banda), Bhinga (dist Shrawasti) 8 Each; **Madhya Maharashtra**: Radhanagari (dist Kolhapur) 11; Gaganbawada (dist Kolhapur) 10; Mahabaleshwar (dist Satara), Lonavala ARG (dist Pune) 9 Each; **Gujarat Region**: Surat City (dist Surat) 10; **Odisha**: Bhapur (dist Nayagarh) 10; Padampur (dist Bargarh), Paikmal (dist Bargarh), Golamunda (dist Kalahandi) 8 Each; **Uttarakhand**: Joshimath (dist Chamoli), Dharchula (dist Pithoragarh) 9 Each; **Coastal Karnataka**: Subramanya (dist Dakshina Kannada) 8; **Chhattisgarh**: Manendragarh (dist Manendragarh Bharatpur) 8; **Vidarbha**: Bhandara (dist Bhandara) 8; **Himachal Pradesh**: Dharmsala (dist Kangra) 8.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today):**Extremely heavy rainfall (?21 cm)** has been recorded over Meghalaya. **Very Heavy rainfall (12-20 cm)** has been recorded over Jammu-Kashmir, Sub-Himalayan West Bengal, East Uttar Pradesh, Bihar, East Madhya Pradesh, Madhya Maharashtra, Konkan, Arunachal Pradesh and Nagaland. **Heavy rainfall (7-11 cm)** has been recorded over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Odisha, Jharkhand, Vidarbha, Chhattisgarh, Gujarat Region and Karnataka.

❖ **Heat wave conditions** prevailed at isolated places over Jammu-Kashmir.

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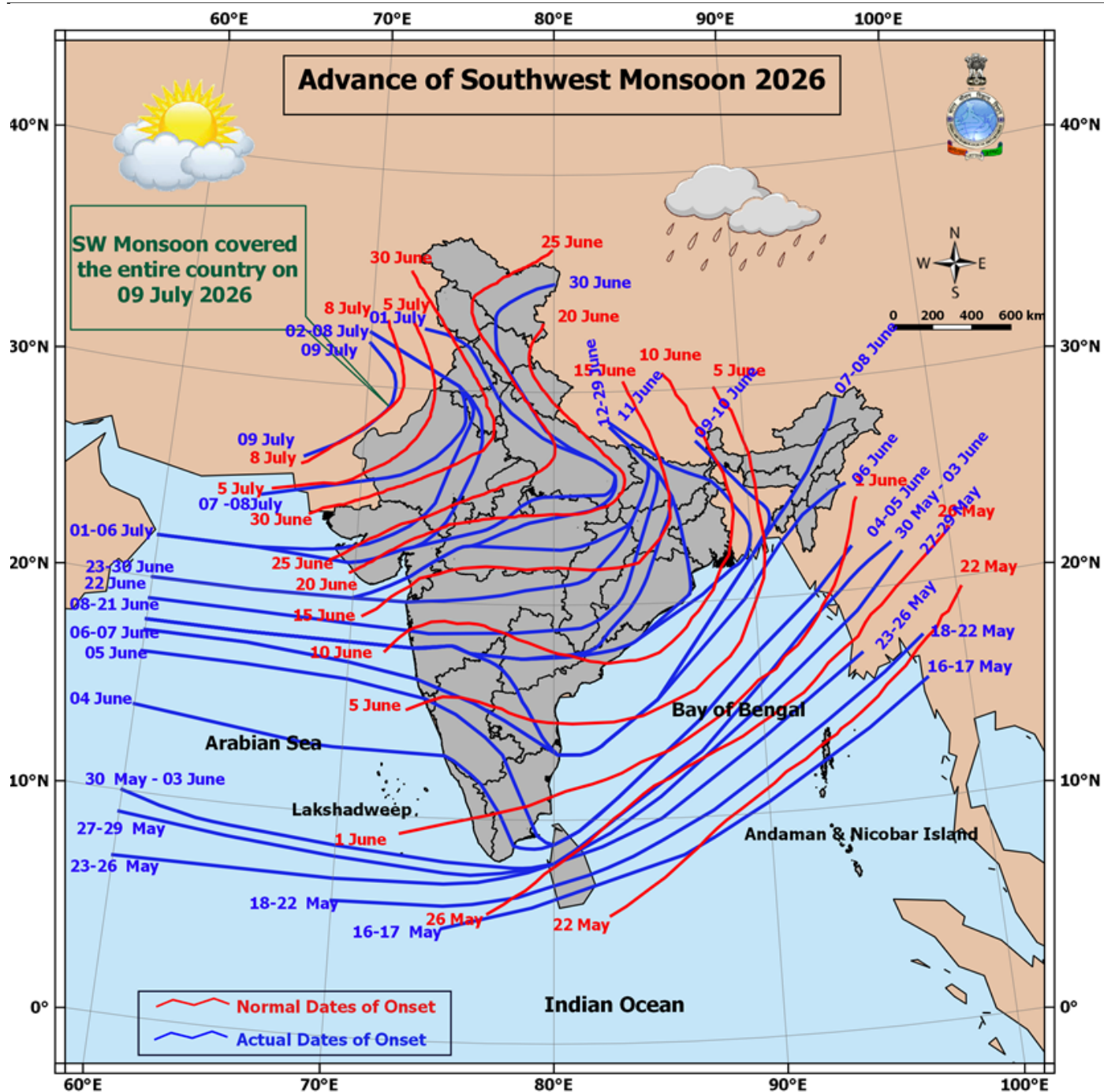
❖ **Minimum Temperature Departures (as on 19-07-2026):** **markedly above normal(> 5.1°C)** at few places over East Rajasthan; at isolated places over Assam & Meghalaya, Bihar, West Uttar Pradesh, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh and Saurashtra & Kutch. **appreciably above normal(3.1°C to 5.0°C)** at few places over Sub Himalayan West Bengal & Sikkim and East Madhya Pradesh; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, East Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, West Madhya Pradesh and Saurashtra & Kutch. **above normal(1.6°C to 3.0°C)** at many places over Andaman & Nicobar Islands, Haryana-Chandigarh-Delhi, Punjab and Coastal Karnataka; at few places over Gangetic West Bengal, Himachal Pradesh, West Rajasthan and Tamil Nadu, Puducherry & Karaikal; at isolated places over Odisha, Bihar, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Vidarbha, Coastal Andhra Pradesh & Yanam and Rayalaseema. **near normal(-1.5°C to 1.5°C)** at many places over Sub Himalayan West Bengal & Sikkim, Odisha, East Uttar Pradesh, Uttarakhand, Saurashtra & Kutch, Konkan & Goa, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Bihar, Gujarat Region, Madhya Maharashtra, Marathwada, Chhattisgarh, Rayalaseema, North Interior Karnataka, South Interior Karnataka and Lakshadweep; at few places over Andaman & Nicobar Islands, Assam & Meghalaya, Gangetic West Bengal, West Uttar Pradesh, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh and Coastal Karnataka; at isolated places over Haryana-Chandigarh-Delhi and East Rajasthan. **The lowest minimum temperature** of 10.3°C was reported at MALEGAON (MAHARASHTRA) over the Plains of India.

❖ **Maximum Temperature Departures (as on 18-07-2026):** **markedly above normal(> 5.1°C)** at most places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Punjab, Himachal Pradesh and West Rajasthan. **appreciably above normal(3.1°C to 5.0°C)** at many places over Haryana-Chandigarh-Delhi; at isolated places over East Rajasthan, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at isolated places over Assam & Meghalaya, West Uttar Pradesh, Uttarakhand and Coastal Andhra Pradesh & Yanam. **near normal(-1.5°C to 1.5°C)** at many places over Sub Himalayan West Bengal & Sikkim; at most places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at few places over Andaman & Nicobar Islands, Gangetic West Bengal, Konkan & Goa and Lakshadweep; at isolated places over Odisha, East Uttar Pradesh, West Madhya Pradesh and Kerala & Mahe. **The highest maximum temperature** of 41.8°C was reported at SRIGANGANAGAR (RAJASTHAN).



Meteorological Analysis (Based on 0830 hours IST)

- The **Monsoon trough** at mean sea level now passes through Sri Ganganagar, Rohtak, Hardoi, Varanasi, Ranchi, Sagar Island and thence southeastwards towards Northwest Bay of Bengal and extends upto 1.5 km above mean sea level.
- An **upper air cyclonic circulation** lies over North Punjab & adjoining Pakistan at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over Western parts of Gangetic West Bengal & adjoining north Jharkhand now lies over North Jharkhand and adjoining Bihar and extends upto 1.5 km above mean sea level.
- The **trough** from North Bihar to Northwest Bay of Bengal across Jharkhand and Gangetic west Bengal between 1.5 & 3.1 Km above mean sea level persists.
- The **upper air cyclonic circulation** over Southwest Madhya Pradesh & neighbourhood at 3.1 km above mean sea level persists.
- The **upper air cyclonic circulation** over South Odisha & neighbourhood now lies over North Coastal Andhra Pradesh & adjoining South Chhattisgarh at 5.8 km above mean sea level.
- The **upper air cyclonic circulation** over Northeast Assam & neighbourhood now lies over Central Assam & adjoining Nagaland between 1.5 & 3.1 km above mean sea level.
- The **upper air cyclonic circulation** over north Haryana & neighbourhood extending upto 1.5 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** over East Uttar Pradesh & neighbourhood between 1.5 & 3.1 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** over Gulf of Mannar adjoining south Tamil Nadu between 5.8 & 7.6 km above mean sea level has become less marked.
- The **Western Disturbance** as a trough in upper level westerlies with its axis at 7.6 km above mean sea level roughly along Long. 70°E to the north of Lat. 30°N has moved away.

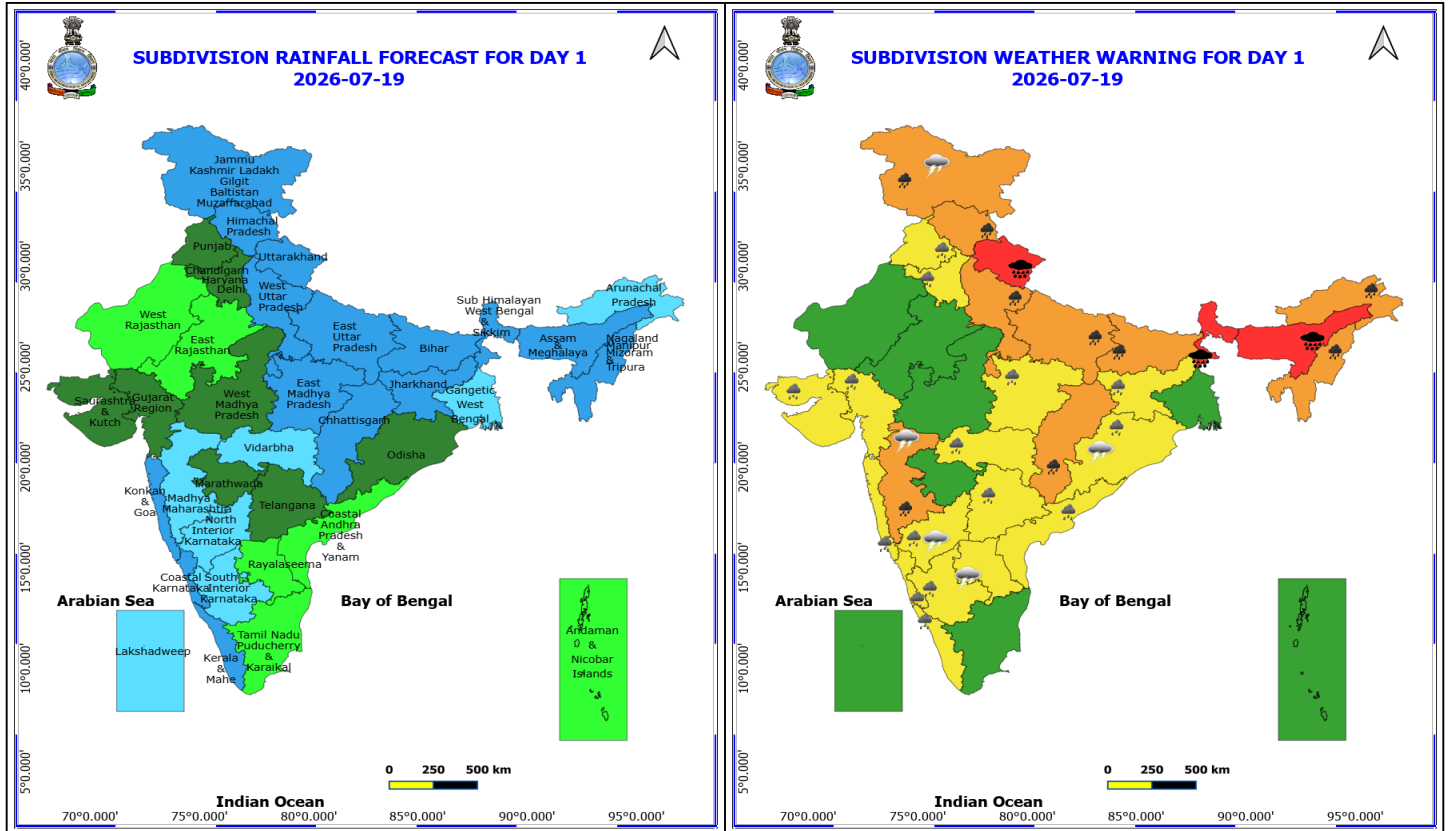


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19 July (Day 1)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Bihar, Chhattisgarh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura and Uttar Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Coastal Andhra Pradesh, East Madhya Pradesh, Gujarat State, Haryana, Chandigarh & Delhi, Jharkhand, Karnataka, Kerala & Mahe, Konkan & Goa, Odisha, Punjab, Telangana and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, North Interior Karnataka, Odisha and Rayalaseema.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Bihar, Coastal Andhra Pradesh, Coastal Karnataka, East Rajasthan, Madhya Pradesh, South Interior Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Maharashtra, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.
- ❖ **Arabian Sea:** Squally wind with speed 45-55 kmph gusting to 65 kmph is likely to prevail over most parts of west central adjoining few parts of east central and some parts of north and south west Arabian Sea and, along and off Somalia, Oman and North Gujarat Coasts.

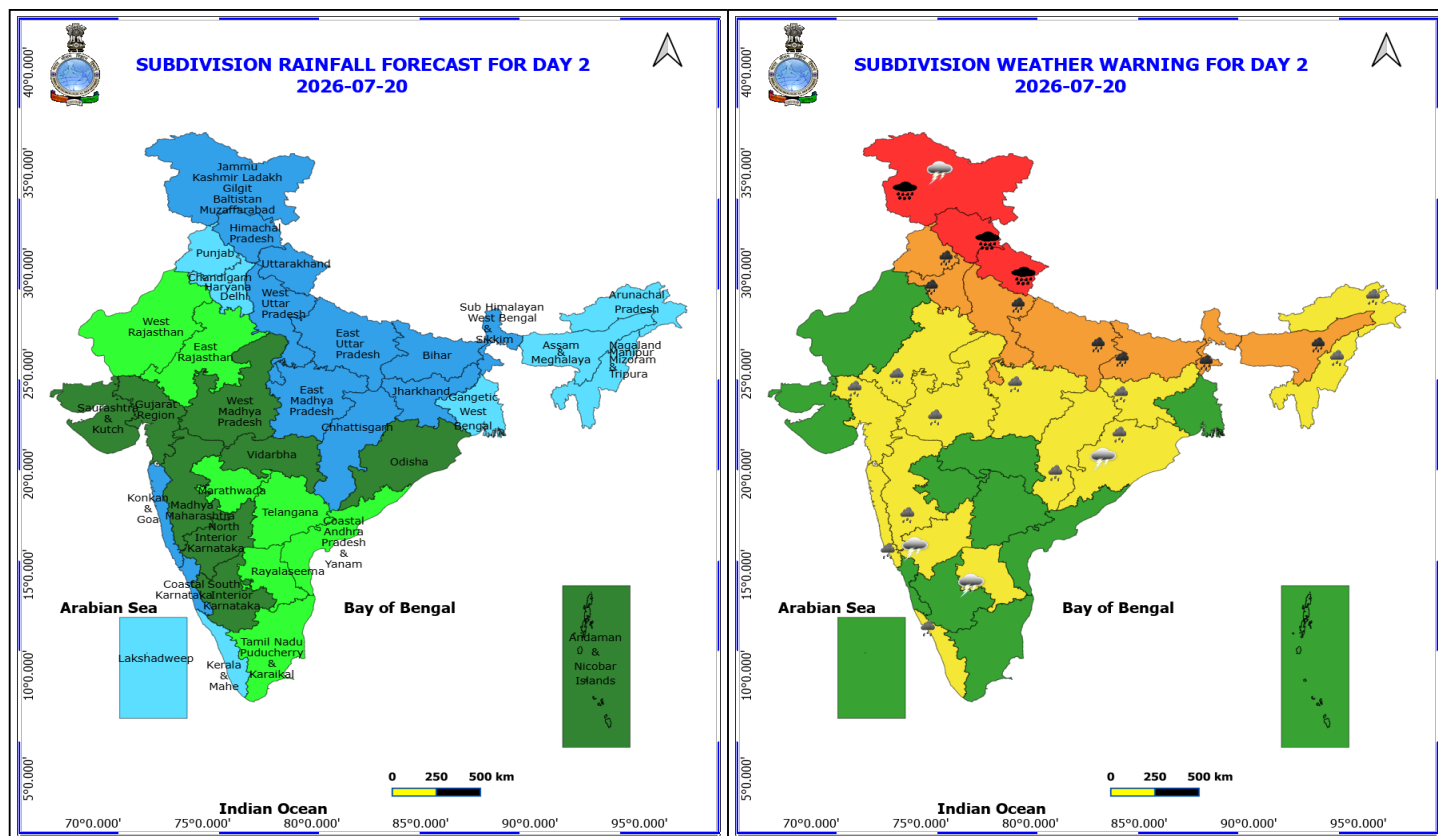
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❖ Bay of Bengal: Squally Weather with wind speed 40-50 kmph gusting to 60 kmph is likely to prevail along and off North Tamil Nadu coast adjoining some parts of southwest and west central Bay of Bengal.



20 July (Day 2)

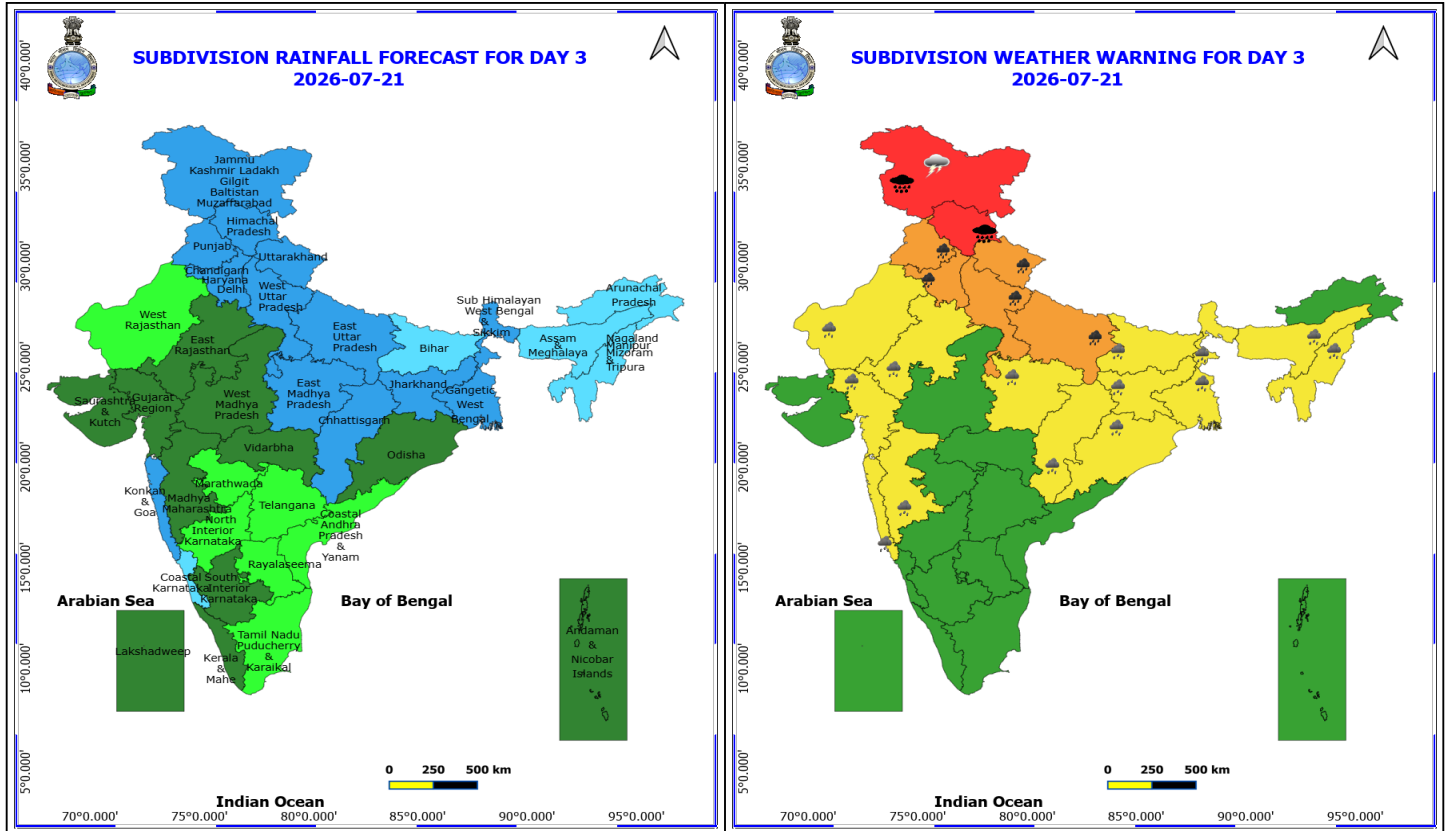
- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Punjab, Sub Himalayan West Bengal & Sikkim and Uttar Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Chhattisgarh, East Rajasthan, Gujarat Region, Jharkhand, Kerala & Mahe, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, North Interior Karnataka, Odisha and Rayalaseema.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Bihar, Coastal Karnataka, Madhya Pradesh, Rajasthan, South Interior Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh, Uttarakhand and Vidarbha.
- ❖ **Arabian Sea:** Squally wind with speed 45-55 kmph gusting to 65 kmph is likely to prevail over most parts of west central adjoining few parts of east central and some parts of north and south west Arabian Sea and, along and off Somalia, Oman and North Gujarat Coasts.
- ❖ **Bay of Bengal:** Squally Weather with wind speed 40-50 kmph gusting to 60 kmph is likely to prevail along and off North Tamil Nadu coast adjoining some parts of southwest and west central Bay of Bengal.

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21 July (Day 3)

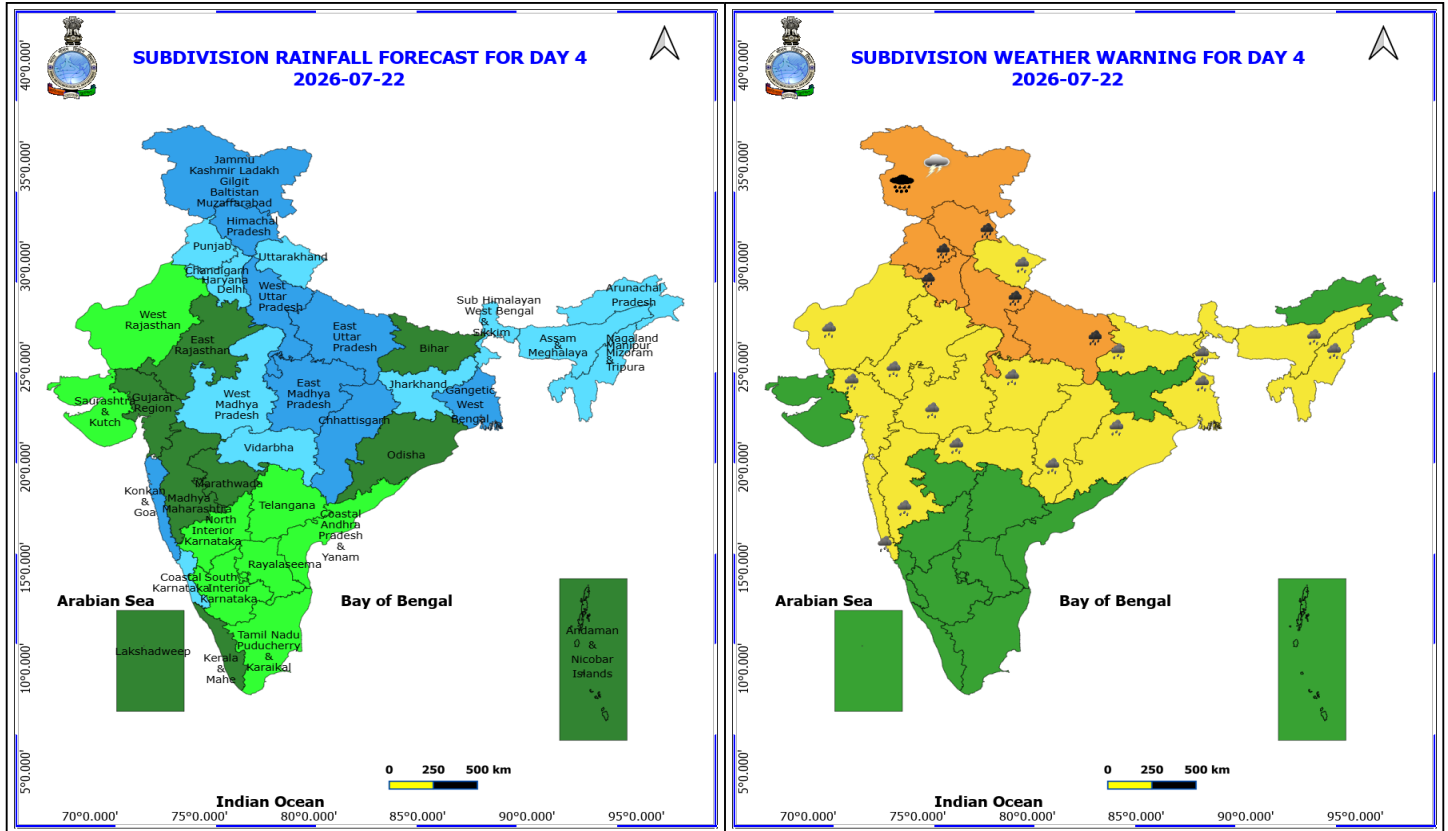
- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Bihar, Chhattisgarh, East Madhya Pradesh, Gujarat Region, Jharkhand, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Odisha, Rajasthan and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Bihar, Madhya Pradesh, Rajasthan, Rayalaseema, South Interior Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Chhattisgarh, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh, Uttarakhand and Vidarbha.
- ❖ **Arabian Sea:** Squally wind with speed 45-55 kmph gusting to 65 kmph is likely to prevail over most parts of west central adjoining some parts of east central, north and south west Arabian Sea and, along and off Somalia, Oman, Gujarat and North Maharashtra Coasts.
- ❖ **Bay of Bengal:** Squally Weather with wind speed 40-50 kmph gusting to 60 kmph is likely to prevail along and off Andhra Pradesh coast adjoining many parts of west central and few parts of southwest Bay of Bengal.

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22 July (Day 4)

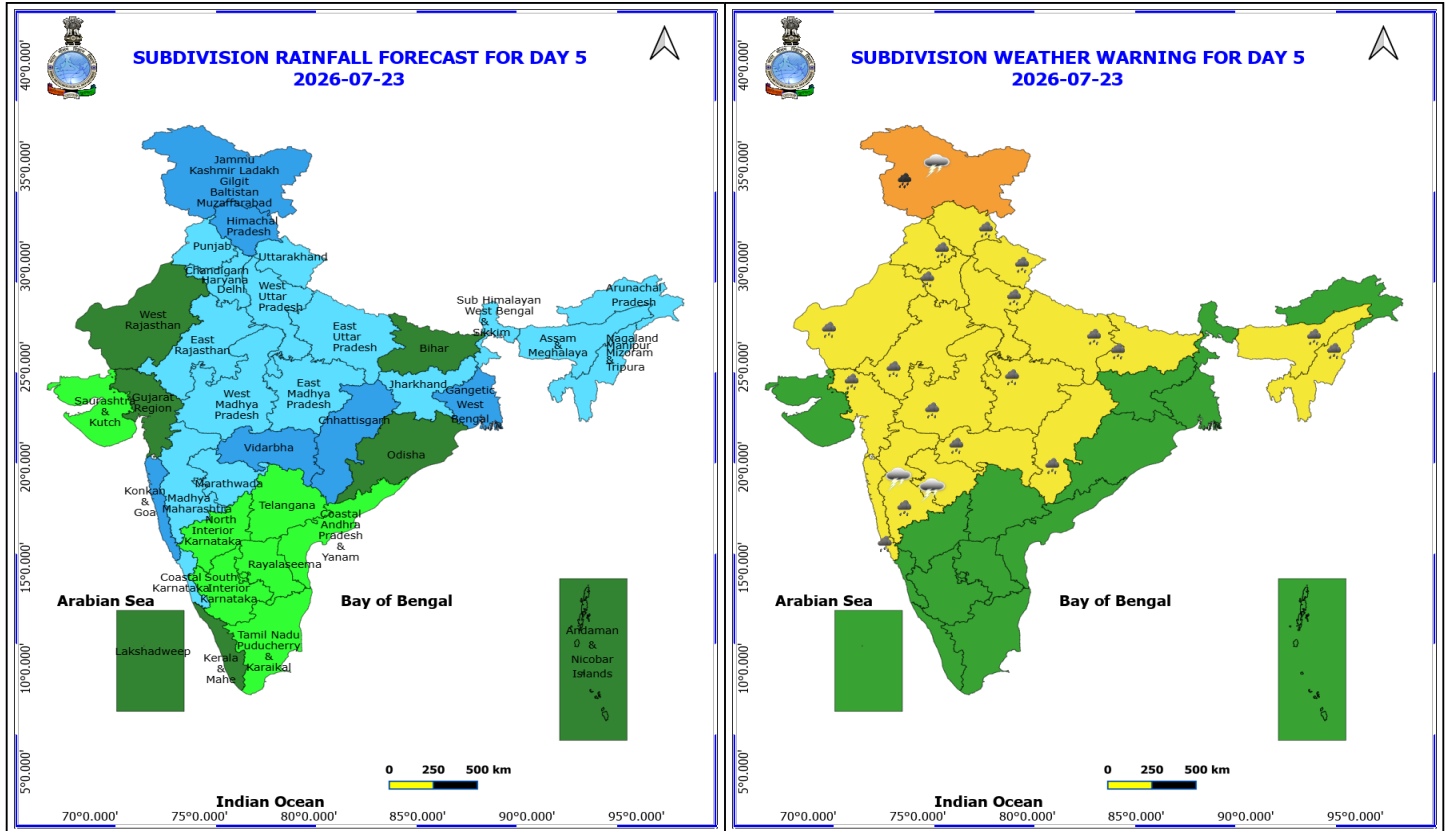
- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab and Uttar Pradesh.
-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

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23 July (Day 5)

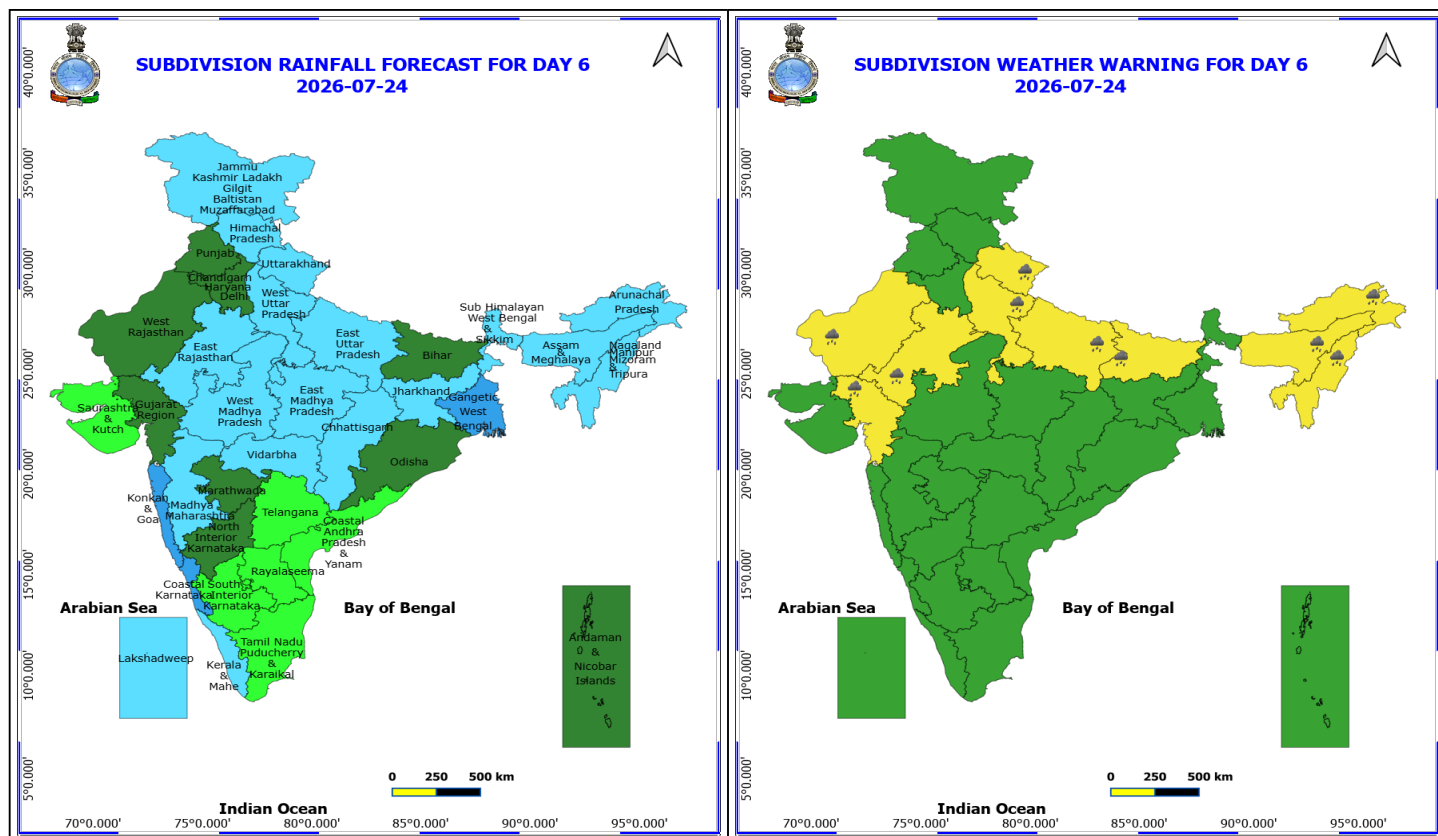
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Bihar, Chhattisgarh, Gujarat Region, Haryana, Chandigarh & Delhi, Himachal Pradesh, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra and Marathwada.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Bihar, Madhya Pradesh, Rajasthan, Rayalaseema, South Interior Karnataka and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Chhattisgarh, Sub Himalayan West Bengal & Sikkim, Uttarakhand and Vidarbha.
- ❖ **Arabian Sea:** Squally wind with speed 45-55 kmph gusting to 65 kmph is likely to prevail over most parts of west central adjoining some parts of east central, north and south west Arabian Sea and, along and off Somalia, Oman, Gujarat and North Maharashtra Coasts.

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24 July (Day 6)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Gujarat Region, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Bihar, Rajasthan and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Sub Himalayan West Bengal & Sikkim and Uttarakhand.

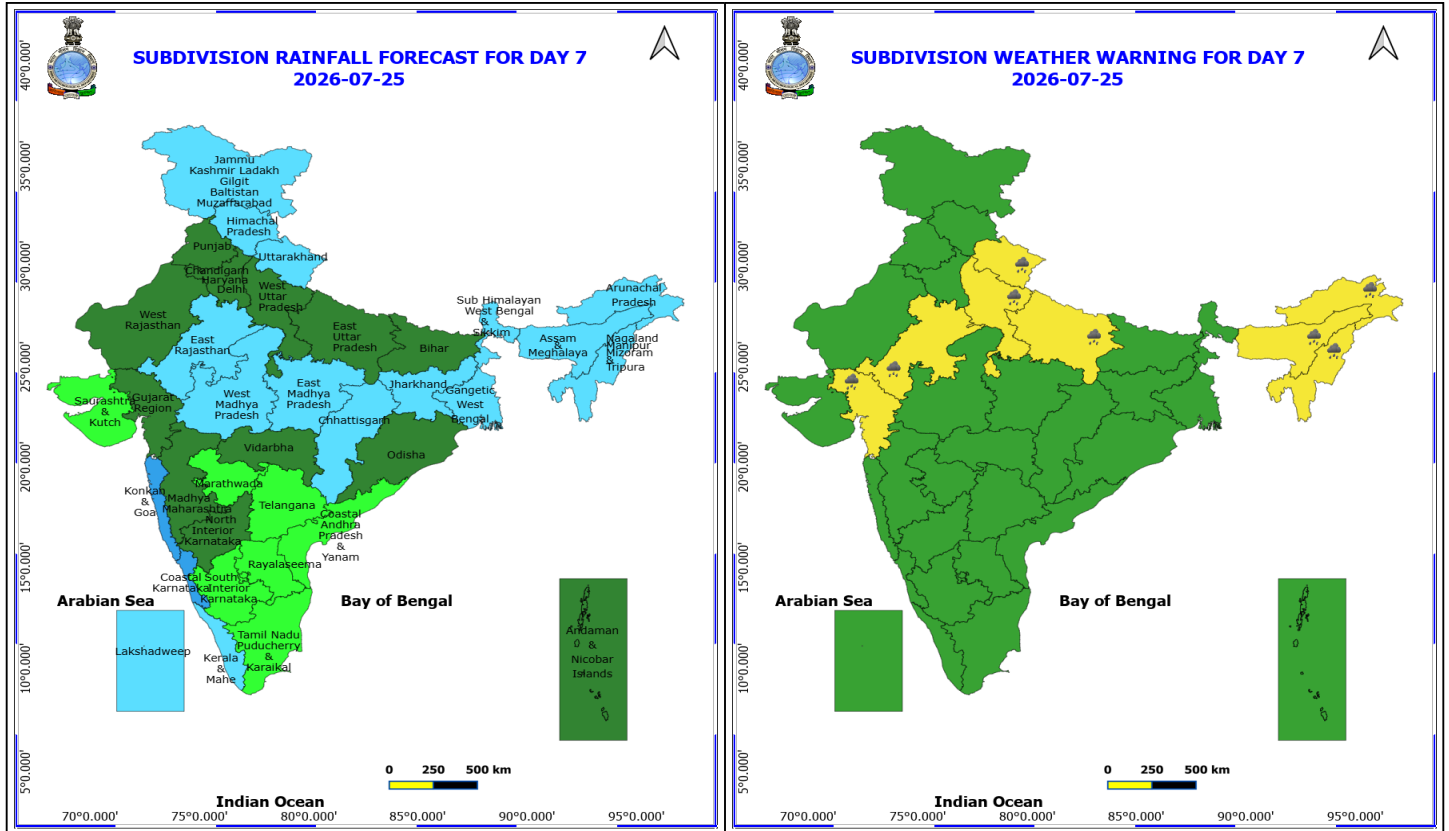
No Fishermen Warning

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25 July (Day 7)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, East Rajasthan, Gujarat Region, Nagaland, Manipur, Mizoram and Tripura, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Rajasthan and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Sub Himalayan West Bengal & Sikkim and Uttarakhand.

No Fishermen Warning

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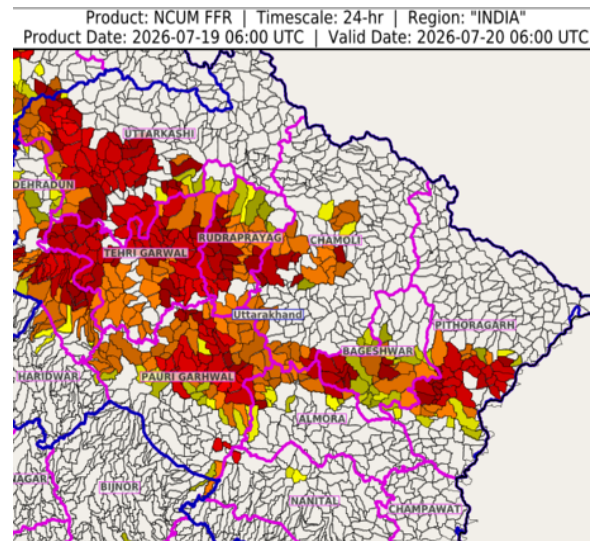
Flash Flood Warnings

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 20-07-2026 :

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

Uttarakhand - Almora, Bageshwar, Chamoli, Dehradun, Pauri Garhwal, Pithoragarh, Rudraprayag, Tehri Garwal and Uttarkashi 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.

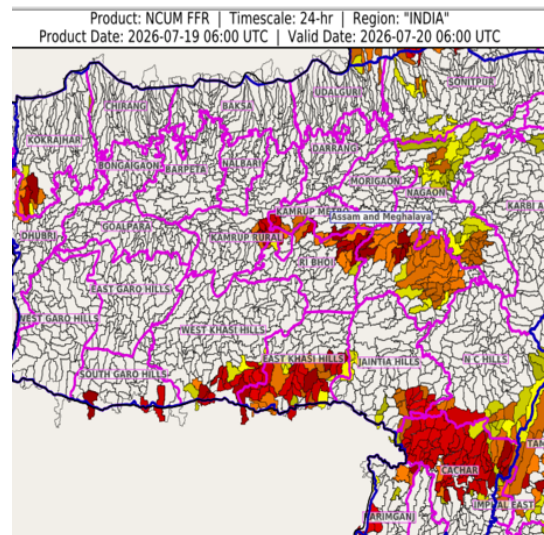


24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 20-07-2026 :

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

Assam & Meghalaya - Cachar, Kamrup Rural, Karbi Analog, Kokrajhar, N.C Hills, Nagaon, Sonitpur, Karimganj, East Garo Hills, East Khasi Hills, Ri Bhoi, South Garo Hills and Jaintia Hills 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	19- Jul	20- Jul	21- Jul	22- Jul	23- Jul	24- Jul	25- Jul
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	FWS	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEHGHALAYA	WS	FWS	FWS	FWS	FWS	FWS	FWS
4	N. M. M. & T.	WS	FWS	FWS	FWS	FWS	FWS	FWS
5	S.H. WEST BENGAL & SIKKIM	WS	WS	WS	FWS	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	FWS	FWS	WS	WS	WS	WS	FWS
7	ODISHA	SCT	SCT	SCT	SCT	SCT	SCT	SCT
8	JHARKHAND	WS	WS	WS	FWS	FWS	FWS	FWS
9	BIHAR	WS	WS	FWS	SCT	SCT	SCT	SCT
10	EAST UTTAR PRADESH	WS	WS	WS	WS	FWS	FWS	SCT
11	WEST UTTAR PRADESH	WS	WS	WS	WS	FWS	FWS	SCT
12	UTTARAKHAND	WS	WS	WS	FWS	FWS	FWS	FWS
13	HARYANA, CHD & DELHI	SCT	FWS	WS	FWS	FWS	SCT	SCT
14	PUNJAB	SCT	FWS	WS	FWS	FWS	SCT	SCT
15	HIMACHAL PRADESH	WS	WS	WS	WS	WS	FWS	FWS
16	JAMMU AND KASHMIR AND LADAKH	WS	WS	WS	WS	WS	FWS	FWS
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
18	EAST RAJASTHAN	ISOL	ISOL	SCT	SCT	FWS	FWS	FWS
19	WEST MADHYA PRADESH	SCT	SCT	SCT	FWS	FWS	FWS	FWS
20	EAST MADHYA PRADESH	WS	WS	WS	WS	FWS	FWS	FWS
21	GUJRAT REGION	SCT	SCT	SCT	SCT	SCT	SCT	SCT
22	SAURASHTRA & KUTCH	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	SCT	SCT	SCT	FWS	FWS	SCT
25	MARATHWADA	SCT	ISOL	ISOL	SCT	FWS	SCT	ISOL
26	VIDARBHA	FWS	SCT	SCT	FWS	WS	FWS	SCT
27	CHATTISGARH	WS	WS	WS	WS	WS	FWS	FWS
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	WS	WS	FWS	FWS	FWS	WS	WS
33	NORTH INTERIOR KARNATAKA	FWS	SCT	ISOL	ISOL	ISOL	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
35	KERALA	WS	FWS	SCT	SCT	SCT	FWS	FWS
36	LAKSHDWEEP	FWS	FWS	SCT	SCT	SCT	FWS	FWS

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

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Fig. 1: Maximum Temperatures Dated 2026-07-18

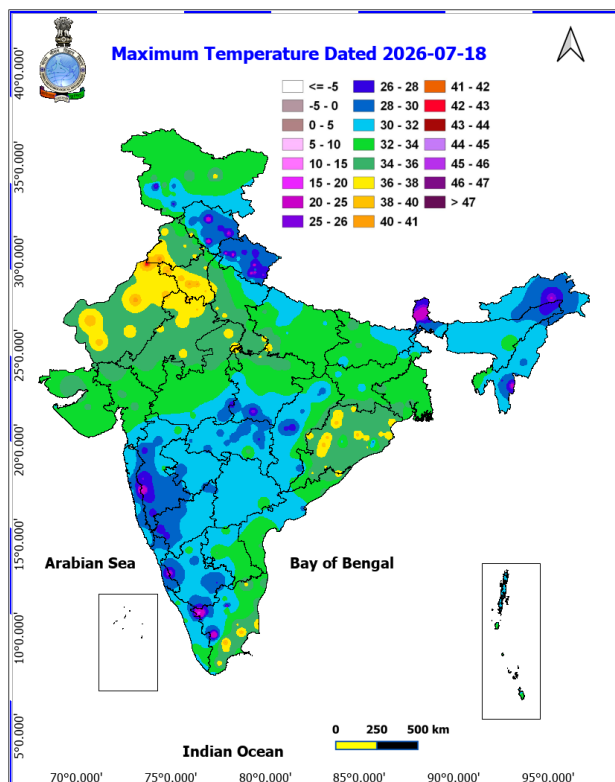


Fig. 2: Departure of Maximum Temp. Dated 2026-07-18

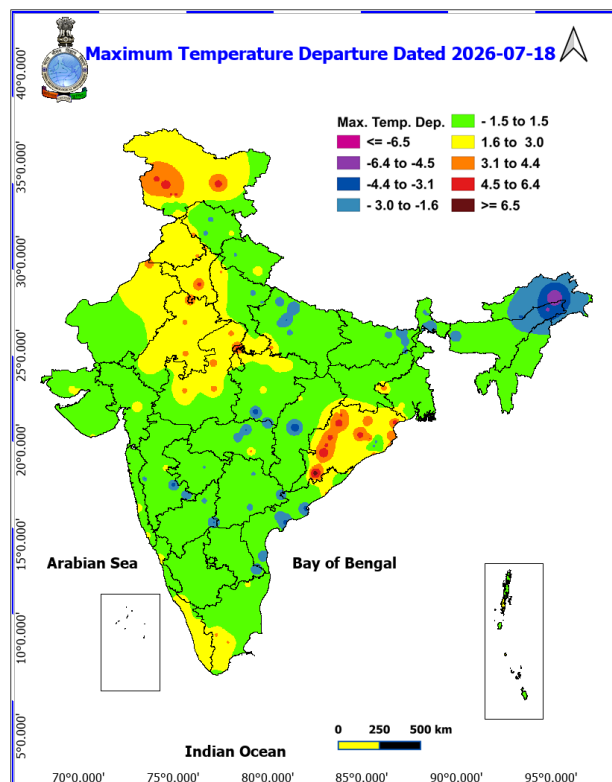


Fig. 3: Minimum Temperatures Dated 2026-07-19

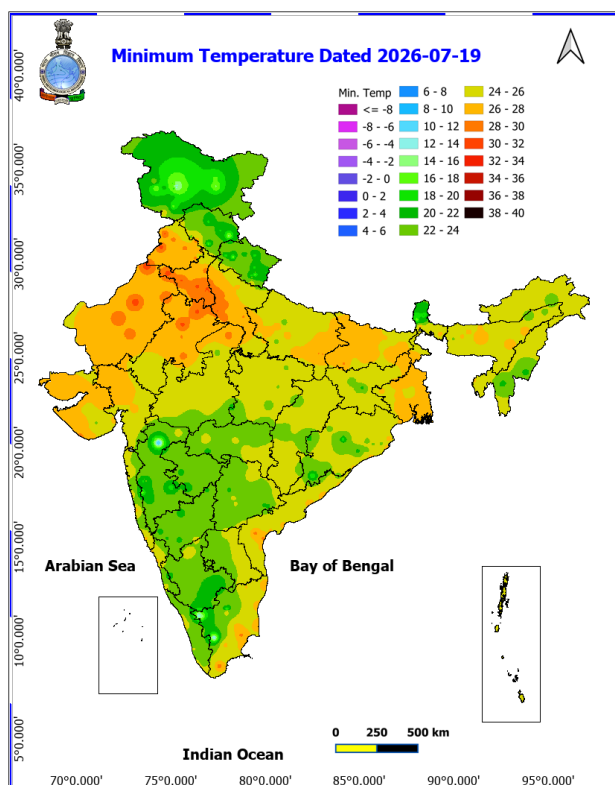
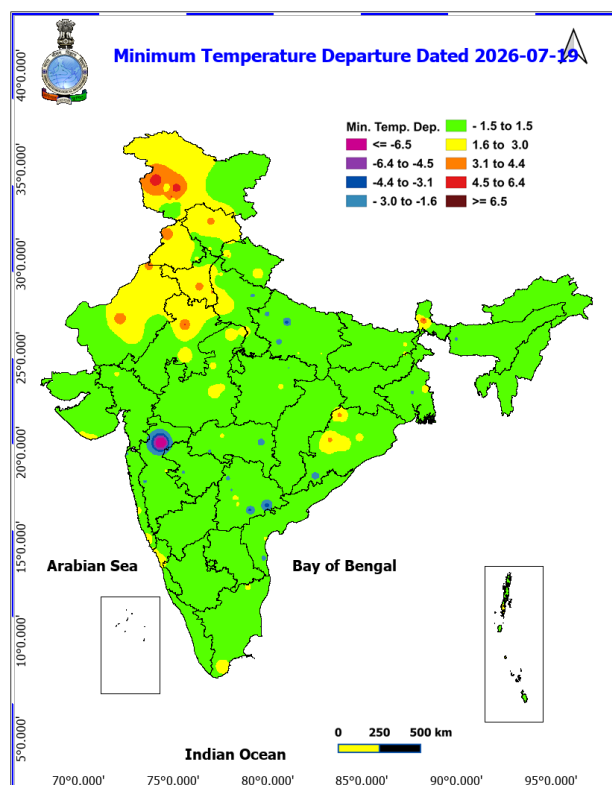
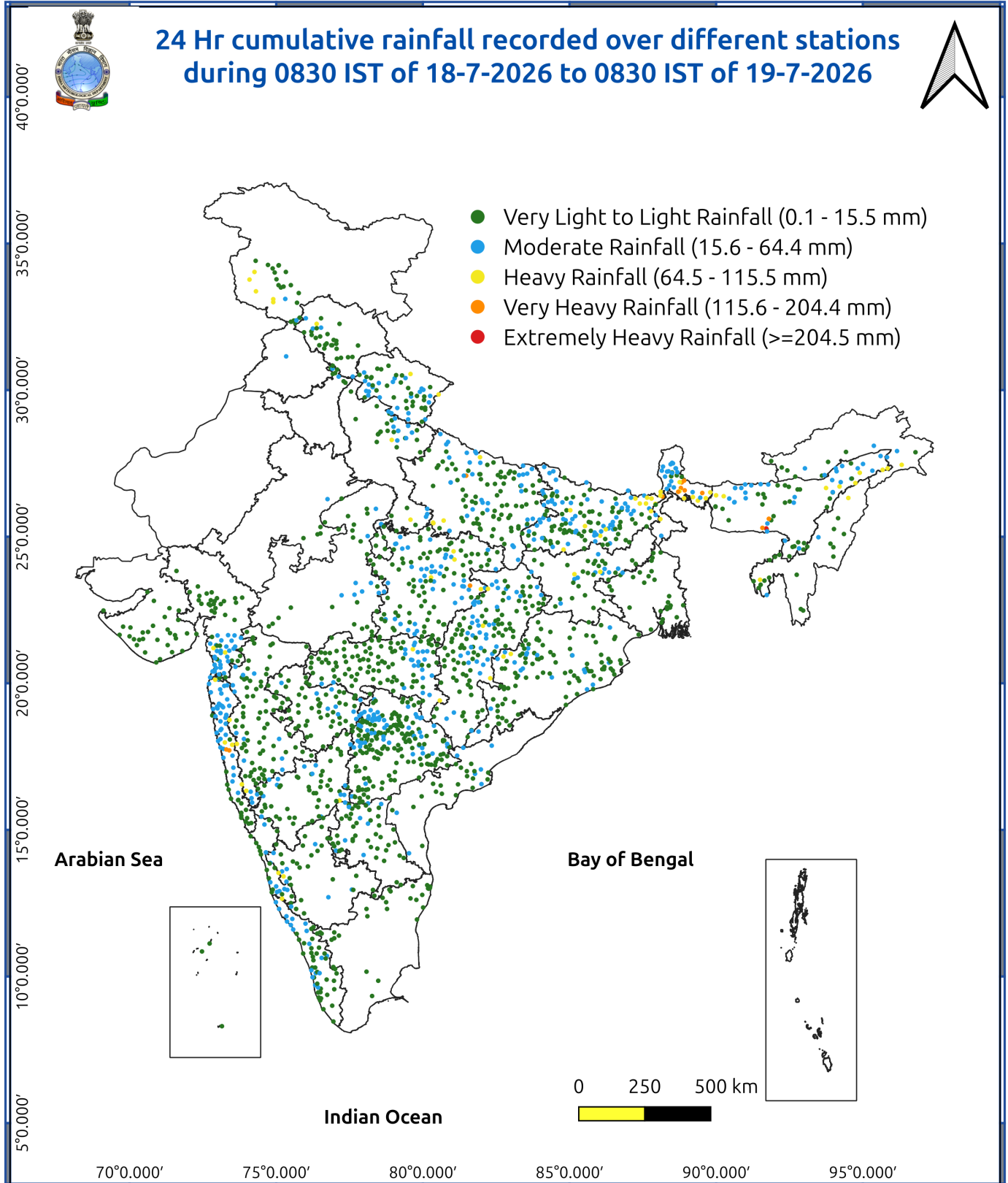


Fig. 4: Departure of Minimum Temp. Dated 2026-07-19





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Impact and Actions

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

- Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Meghalaya & Sub-Himalayan West Bengal & Sikkim on 19th; Uttarakhand on 19th & 20th; Jammu-Kashmir during 20th -22nd and Himachal Pradesh on 20th & 21st July.

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy Rainfall:

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

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

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

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

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

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

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

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

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

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

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

In **Keralam**, provide adequate drainage facilities in banana, coconut, cardamom, ginger, black pepper and vegetables.

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

In the regions expecting heavy rainfall, including **Jammu & Kashmir, Punjab, Haryana Konkan & Goa and Madhya Maharashtra** withhold irrigation in standing crops, make necessary arrangements to remove excess rain water from the crop fields.

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

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.

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

Livestock / Poultry / Fisheries

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

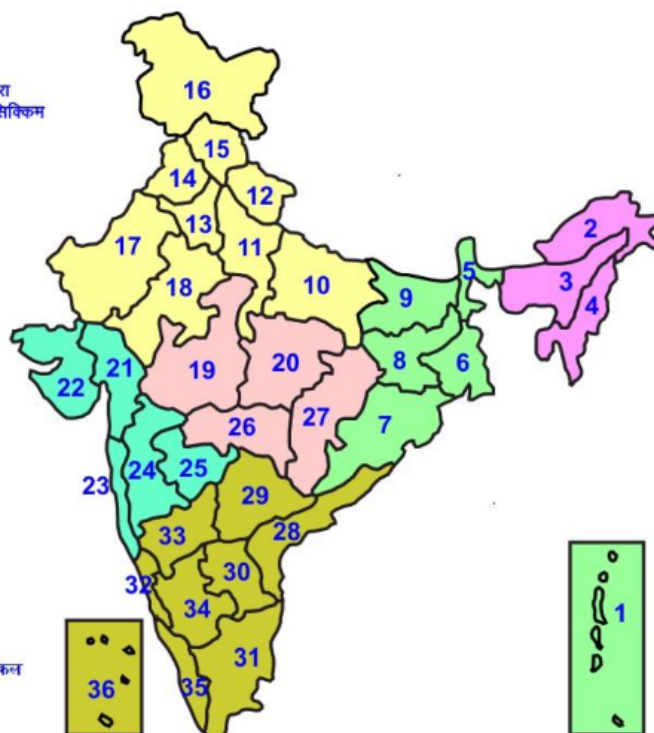
Store the feed and fodder in a safe place to prevent spoilage.

In regions with high temperatures and heat wave conditions, provide clean, cool drinking water to animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects of heat.

Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.

LEGENDS

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



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. 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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