

2026-07-18

Time of Issue: 08:36:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather forecast and Warnings:

##### Northwest India:

- **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th July.
- **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 18th-19th July and on 23rd July; West Uttar Pradesh on 18th July; West Rajasthan during 18th-23rd July; East Rajasthan during 18th-23rd July.
- **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 19th-23rd July; Himachal Pradesh during 18th-23rd July; Uttarakhand during 18th-23rd July.
- **Fairly Widespread to Widespread** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 20th-22nd July; West Uttar Pradesh during 18th-23rd July; East Uttar Pradesh during 18th-23rd July.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-23rd July.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over East Rajasthan and West Rajasthan during 20th-23rd July.
- **Isolated thunderstorm & lightning** likely over Uttarakhand during 18th-23rd July; East Uttar Pradesh and West Uttar Pradesh during 18th-21st July.
- **Isolated heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Uttar Pradesh on 19th July and on 23rd July; Himachal Pradesh on 18th July and on 23rd July; Uttarakhand during 22nd-23rd July; Haryana Chandigarh & Delhi and Punjab during 20th-22nd July; East Uttar Pradesh on 18th July and during 22nd-23rd July with isolated **very heavy rainfall** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Uttar Pradesh during 20th-22nd July; Himachal Pradesh during 19th-22nd July; Uttarakhand during 18th-21st July; East Uttar Pradesh during 19th-21st July.

##### Central India:

- **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 18th-20th July; Vidarbha during 19th-23rd July.
- **Fairly Widespread to Widespread** rainfall likely over West Madhya Pradesh during 21st-23rd July; Chhattisgarh and East Madhya Pradesh during 18th-23rd July; Vidarbha on 18th July.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over East Madhya Pradesh and West Madhya Pradesh during 18th-21st July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Vidarbha on 18th July.
- **Isolated thunderstorm & lightning** likely over Vidarbha on 19th July; Chhattisgarh during 18th-21st July.
- **Isolated heavy rainfall** likely over East Madhya Pradesh during 18th-21st July; Chhattisgarh during 19th-21st July with isolated **very heavy rainfall** also likely over Chhattisgarh on 18th July.

##### East India:

- **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands during 18th-19th July and on 23rd July; Bihar during 22nd-23rd July; Odisha during 19th-23rd July.
- **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 20th-22nd July; Gangetic West Bengal, Jharkhand and Sub-Himalayan West Bengal & Sikkim during 18th-23rd July; Bihar during 18th-21st July; Odisha during on 18th July.
- **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jharkhand during 18th-21st July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands and Bihar during 18th-23rd July; Gangetic West Bengal during 18th-23rd July.

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- Isolated **thunderstorm & lightning** likely over Sub-Himalayan West Bengal & Sikkim during 18th-23rd July.
- Isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 18th-19th July and during 21st-22nd July; Jharkhand during 18th-20th July; Bihar on 18th July and during 21st-23rd July; Odisha during 18th-20th 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 18<sup>th</sup> & 19<sup>th</sup> July.

#### Northeast India:

- **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh and Assam & Meghalaya during 18th-20th July; Nagaland, Manipur, Mizoram & Tripura during 18th-22nd July.
- **Isolated to Scattered** rainfall likely over Arunachal Pradesh and Assam & Meghalaya during 21st-23rd July; Nagaland, Manipur, Mizoram & Tripura on 23rd July.
- Isolated **thunderstorm & lightning** likely over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura on 18th-19th July; Assam & Meghalaya during 18th-21st July.
- Isolated **heavy rainfall** likely over Arunachal Pradesh during 19th-23rd July; Assam & Meghalaya during 20th-23rd July; Nagaland, Manipur, Mizoram & Tripura during 18th-23rd July with isolated **very heavy rainfall** also likely over Arunachal Pradesh on 18th July; Assam & Meghalaya on 18th-19th July.

#### West India:

- **Fairly Widespread to Widespread** rainfall likely over Konkan & Goa during 18th-23rd July.
- **Isolated to Scattered** rainfall likely over Gujarat Region, Madhya Maharashtra, Marathawada and Saurashtra & Kutch during 18th-23rd July.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Madhya Maharashtra and Marathawada on 18th-19th July.

#### South Peninsular India:

- **Isolated to Scattered** rainfall likely over Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Telangana during 18th-23rd July; Kerala & Mahe and Lakshadweep during 22nd-23rd July.
- **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe and Lakshadweep during 18th-21st July; Coastal Karnataka during 18th-23rd July.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over North Interior Karnataka on 18th-19th July; South Interior Karnataka on 18th July; Coastal Andhra Pradesh & Yanam during 18th-21st July; Telangana during 19th-23rd July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal during 18th-21st July; Kerala & Mahe on 18th-19th July; North Interior Karnataka during 20th-23rd July; South Interior Karnataka during 19th-23rd July; Rayalaseema during 18th-21st July.
- Isolated **heavy rainfall** likely over Kerala & Mahe on 18th-19th July; Coastal Karnataka during 18th-19th July; North Interior Karnataka and South Interior Karnataka on 18th July.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Telangana on 18th July.
- Strong Surface Winds likely over Coastal Karnataka and Rayalaseema during 18th-21st July; North Interior Karnataka, South Interior Karnataka and Telangana during 18th-23rd July.

#### Heat Wave, Hot & Humid weather and Warm Night conditions warning:

- **Hot and humid** weather conditions likely to prevail over Haryana Chandigarh & Delhi and Punjab on 18th July.

#### Fishermen Warning:

Fishermen are advised not to venture:

#### Arabian Sea:



- Along and off Somalia coast over most parts of west central adjoining some parts of south west Arabian Sea during 18<sup>th</sup> to 22<sup>nd</sup> July, along and off South Gujarat coast and some parts of north and east central Arabian Sea during 18<sup>th</sup> to 22<sup>nd</sup> July; along and off Oman coast and sea areas during 19<sup>th</sup> to 22<sup>nd</sup> July, and North Maharashtra Coast during 20<sup>th</sup> to 22<sup>nd</sup> July.

**Bay of Bengal:**

- Along and off north Tamil Nadu coast adjoining some parts of southwest and few west central Bay of Bengal on 18<sup>th</sup> & 19<sup>th</sup> July, over southwest and adjoining west central Bay of Bengal during 19<sup>th</sup> to 21<sup>st</sup> July.

#### Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Assam & Meghalaya, Konkan & Goa, East Madhya Pradesh, Himachal Pradesh, South Interior Karnataka, Sub-himalayan West Bengal & Sikkim, Marathwada, Chhattisgarh, Uttarakhand, East Uttar Pradesh, Jharkhand, Arunachal Pradesh, Coastal Karnataka, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, Telangana and Rayalaseema; **at many places** over Jammu & Kashmir and Ladakh, West Madhya Pradesh, Saurashtra & Kutch, Gujarat Region, West Uttar Pradesh, Bihar, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra, East Rajasthan, Vidarbha, Tamilnadu Puducherry & Karaikal and Lakshadweep; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Assam & Meghalaya**: Cherrapunji (dist East Khasi Hills) 23; **Chhattisgarh**: Bilaspur (dist Bilaspur) 14, Pendra Road (dist Gaurella-pendra-marwahi) 3; **East Uttar Pradesh**: Gorakhpur (dist Gorakhpur) 10, Varanasi (dist Varanasi), Sultanpur-obs2 (dist Sultanpur) 6 Each, Bahraich (dist Bahraich), Azamgarh-obs (dist Azamgarh) 2 Each; **Odisha**: Puri (dist Puri) 7, Paradip Port (dist Jagatsinghapur) 3, Bhubaneswar (dist Khordha), Jharsuguda (dist Jharsuguda) 2 Each; **Jharkhand**: Jamshedpur AP (dist East Singhbhum) 7, Ranchi AP (dist Ranchi) 4; **Arunachal Pradesh**: Pasighat (dist East Siang) 7; **Coastal Karnataka**: Mangalore (bajpe) AP (dist Dakshina Kannada) 5; **Coastal Andhra Pradesh & Yanam**: Nellore (dist Sri Potti Sriramulu Nellore) 5; **Uttarakhand**: Dehra Dun-mokampur (dist Dehradun) 4; **Kerala & Mahe**: Cannanore (kannur) (dist Kannur) 3; **Nagaland, Manipur, Mizoram & Tripura**: Agartala AP (dist West Tripura) 2; **East Rajasthan**: Kota AP (dist Kota) 2.

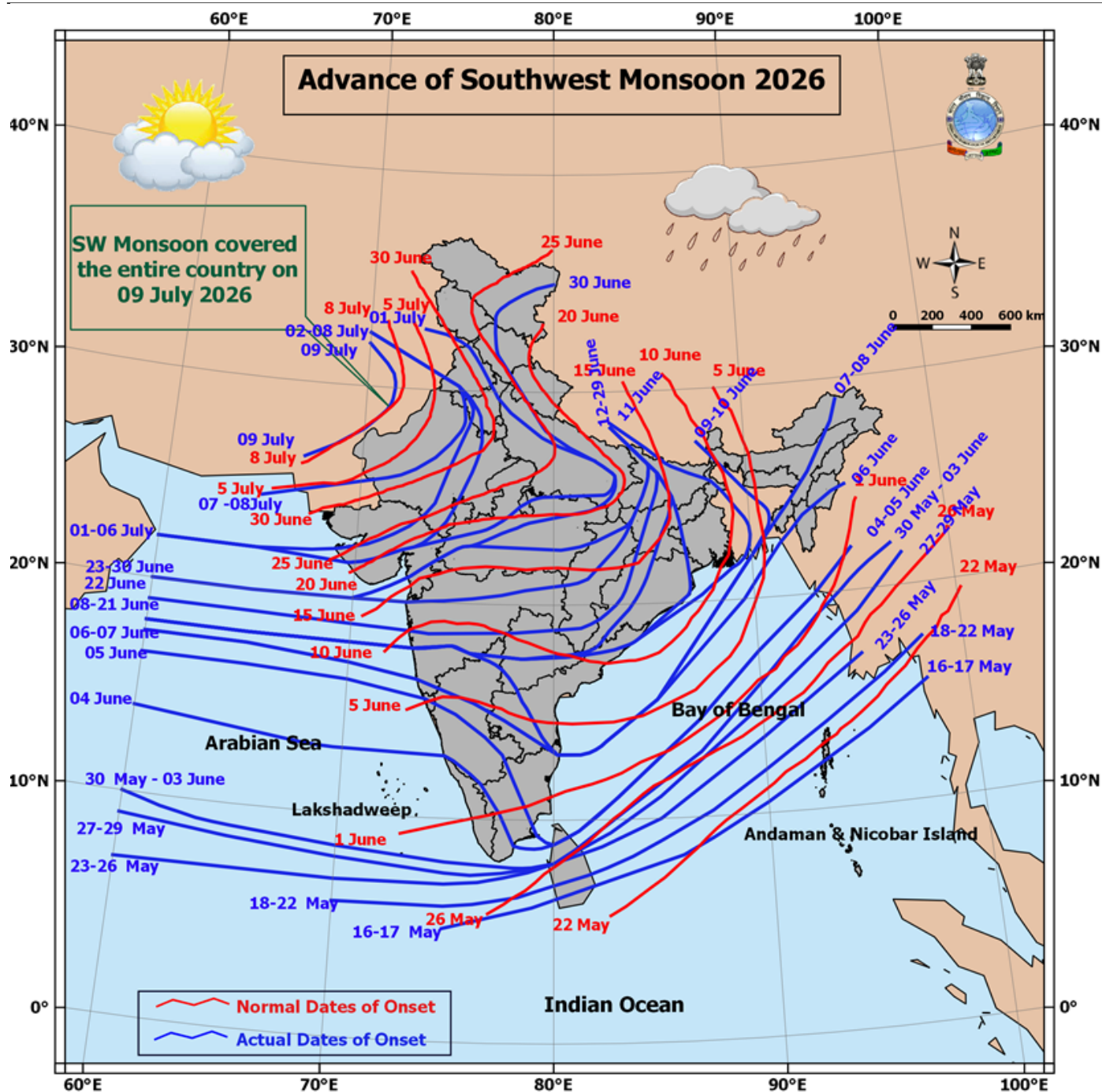
❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Extremely heavy rain** at isolated places over Assam & Meghalaya **Heavy to very heavy rain** at isolated places over Chhattisgarh **Heavy rain** at a few places over Arunachal Pradesh and Jharkhand, at isolated places over Odisha and East Uttar Pradesh

**Minimum Temperature Departures (as on 17-07-2026): markedly above normal(> 5.1°C)** at few places over East Madhya Pradesh; at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Bihar, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, West Madhya Pradesh, Saurashtra & Kutch and Vidarbha. **appreciably above normal(3.1°C to 5.0°C)** at few places over Haryana-Chandigarh-Delhi and Punjab; at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Odisha, Uttarakhand, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, East Rajasthan, Gujarat Region, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at many places over Rayalaseema; at few places over Arunachal Pradesh, Gangetic West Bengal, Marathwada and Lakshadweep; at isolated places over Madhya Maharashtra, Telangana, North Interior Karnataka and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Coastal Karnataka; at most places over Jharkhand, Chhattisgarh and South Interior Karnataka. **The lowest minimum temperature** of 18.0°C was reported at JEUR (MAHARASHTRA) over the Plains of India.

❖ **Maximum Temperature Departures (as on 17-07-2026): markedly above normal(> 5.1°C)** at isolated places over Haryana-Chandigarh-Delhi, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh and Vidarbha. **appreciably above normal(3.1°C to 5.0°C)** at many places over East Rajasthan; at most places over Marathwada; at few places over Uttarakhand, Punjab and Rayalaseema; at isolated places over Odisha, Bihar, West Uttar Pradesh, Himachal Pradesh and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at many places over Saurashtra & Kutch and Konkan & Goa; at most places over Lakshadweep; at few places over East Uttar Pradesh, West Rajasthan, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Jharkhand, East Madhya Pradesh, North Interior Karnataka and South Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Chhattisgarh and Coastal Karnataka; at most places over Sub Himalayan West Bengal & Sikkim and Telangana; at few places over Gangetic West Bengal; at isolated places over Nagaland, Manipur, Mizoram & Tripura. **The highest maximum temperature** of 41.8°C was reported at SRIGANGANAGAR (RAJASTHAN).

**Meteorological Analysis (Based on 0530 hours IST)**

- The **Low Pressure area** over Western parts of Gangetic West Bengal & neighbourhood lay over Western parts of Gangetic West Bengal & adjoining north Jharkhand at 0530 hrs IST of today, 18<sup>th</sup> July, 2026. The associated cyclonic circulation extends upto 5.8 km above mean sea level tilting southwestwards with height. It is very likely to weaken gradually during next 24 hrs.
- The **Monsoon trough** at mean sea level now passes through Amritsar, Karnal, Bareilly, Lucknow, Patna, centre of Low Pressure area over Western parts of Gangetic West Bengal & adjoining north Jharkhand, Diamond harbour and thence southeastwards towards Northeast Bay of Bengal and extends upto 0.9 km above mean sea level.
- An **upper air cyclonic circulation** lay over north Haryana & neighbourhood upto 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over east Uttar Pradesh persists now seen between 1.5 & 3.1 km above mean sea level.
- The **upper air cyclonic circulation** over southwest Rajasthan & neighbourhood at 3.1km above mean sea level persists.
- An **upper air cyclonic circulation** lay over Gulf of Mannar adjoining south Tamil Nadu at 5.8 km above mean sea level.
- An **upper air cyclonic circulation** lay over north Kerala & neighbourhood at 5.8 km above mean sea level.
- The **trough** from North Lakshadweep area to southwest Bay of Bengal across north Kerala, South Interior Karnataka and north Tamilnadu at 7.6 km above mean sea level persists.
- The **upper air cyclonic circulation** over Northeast Assam & neighbourhood extending upto 1.5 km above mean sea level has become less marked.
- The **Western Disturbance** as cyclonic circulation over north Pakistan & neighbourhood at 5.8 km above mean sea level has become less marked, however the trough aloft in upper level westerlies with its axis at 7.6 km above mean sea level now runs roughly along Long. 70°E to the north of Lat. 30°N.

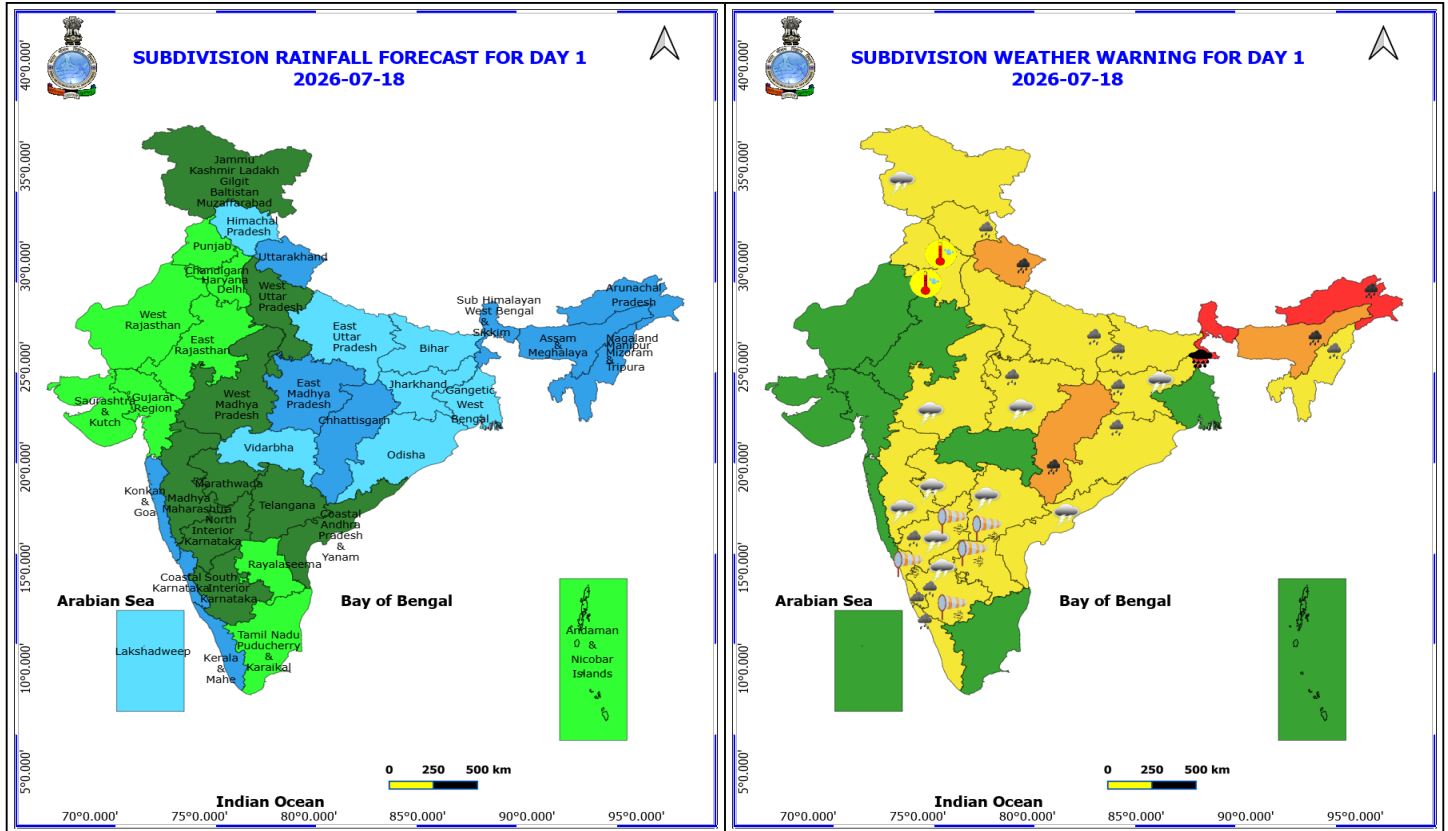


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## 18 July (Day 1)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh and Uttarakhand.
- ❖ **Heavy Rainfall** very likely at isolated places over Bihar, East Madhya Pradesh, East Uttar Pradesh, Himachal Pradesh, Jharkhand, Karnataka, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura and Odisha.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Coastal Andhra Pradesh, Interior Karnataka, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Madhya Maharashtra, Madhya Pradesh and Marathwada.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Bihar, Coastal Karnataka, Gangetic West Bengal, Kerala & Mahe, Rayalaseema, Tamil Nadu Puducherry & Karaikal and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.
- ❖ **Strong Surface Winds** very likely at isolated places over Karnataka, Rayalaseema and Telangana.
- ❖ **Hot and Humid weather** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.

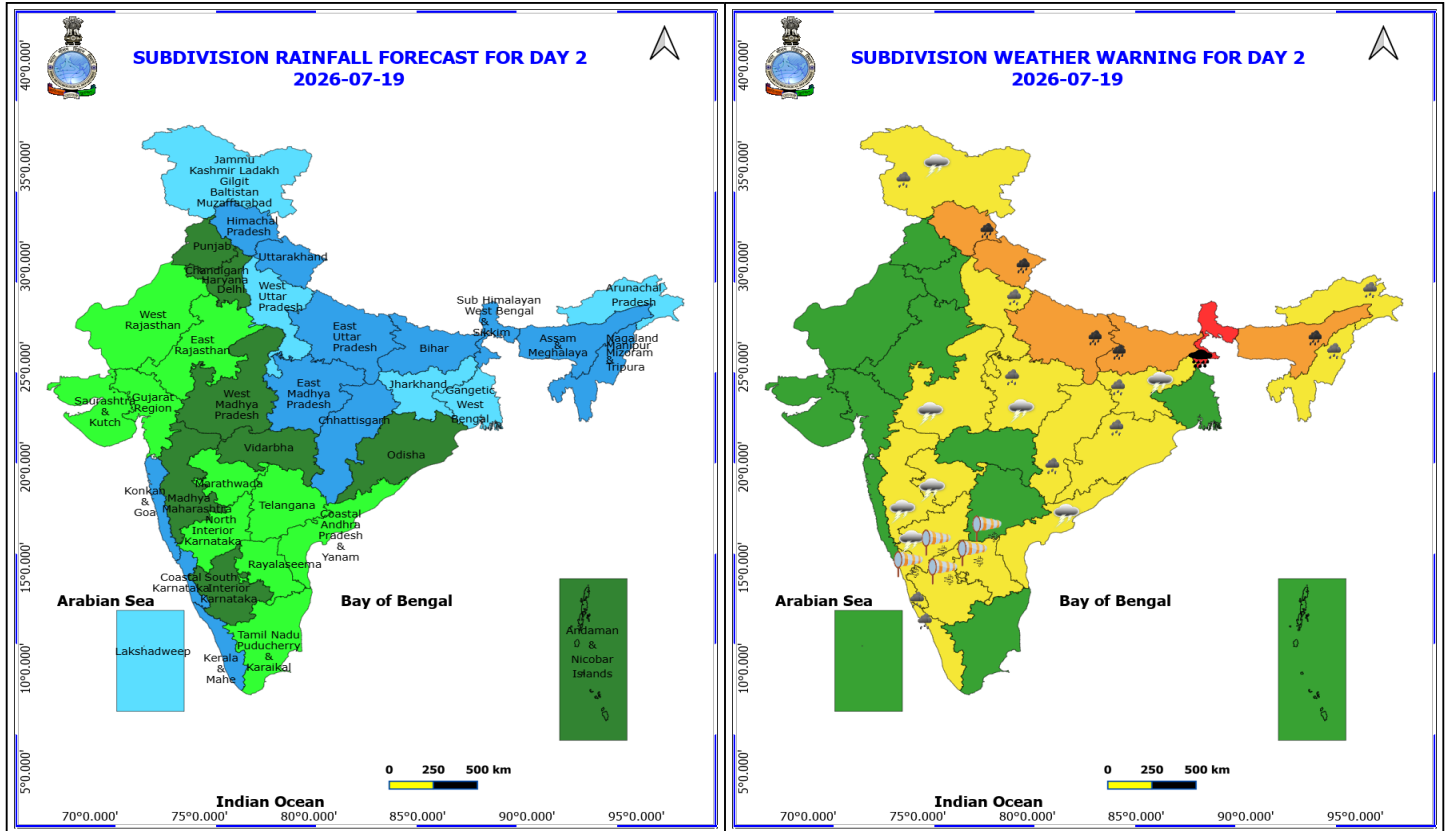
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- ❖ **Arabian Sea: Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail over most parts of central adjoining some parts of north and south west Arabian Sea, along and off Somalia and south Gujarat Coasts.
- ❖ **Bay of Bengal: 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 and adjoining few parts of southeast Bay of Bengal.



## 19 July (Day 2)

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

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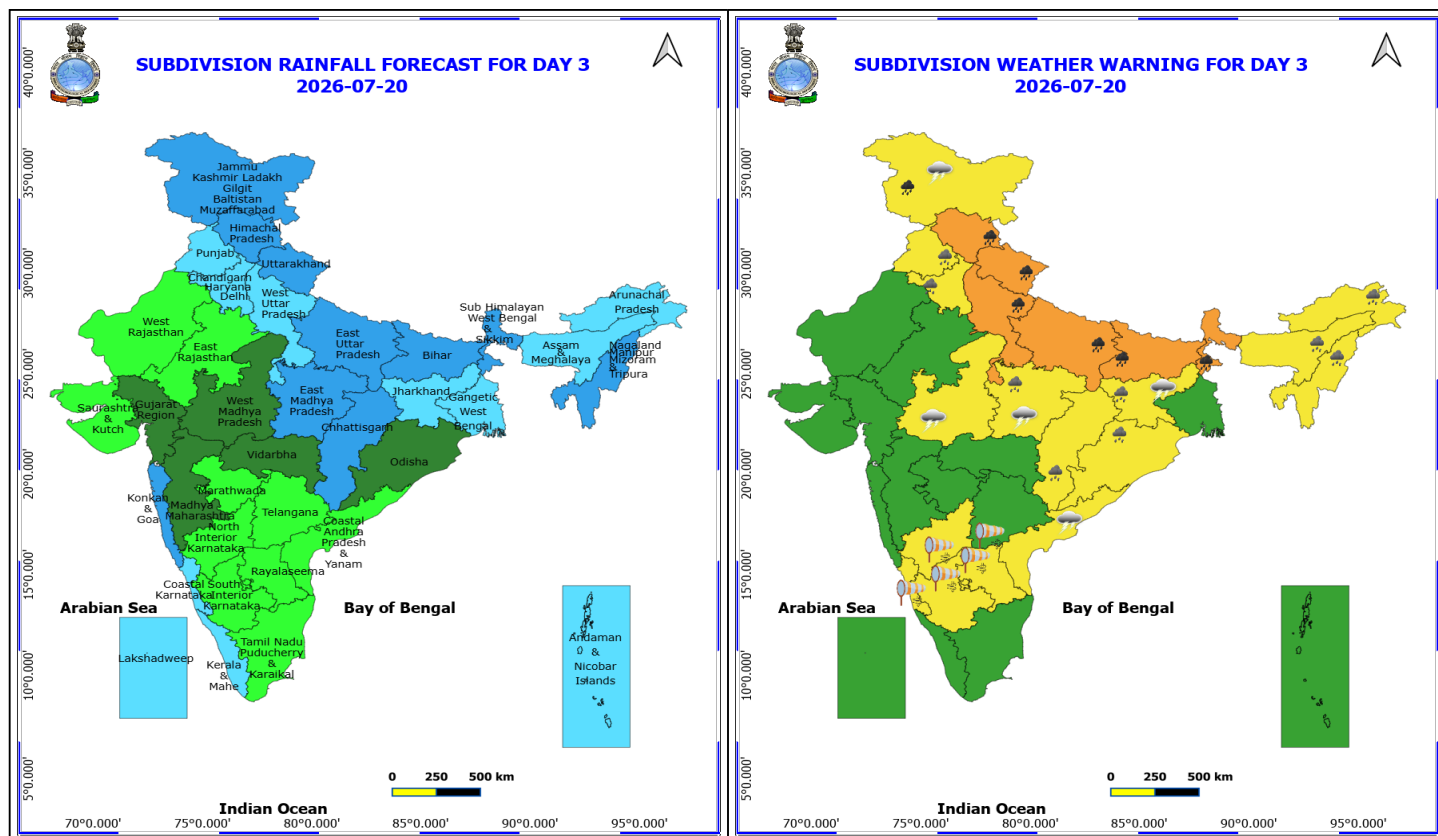
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Coasts.

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



## 20 July (Day 3)

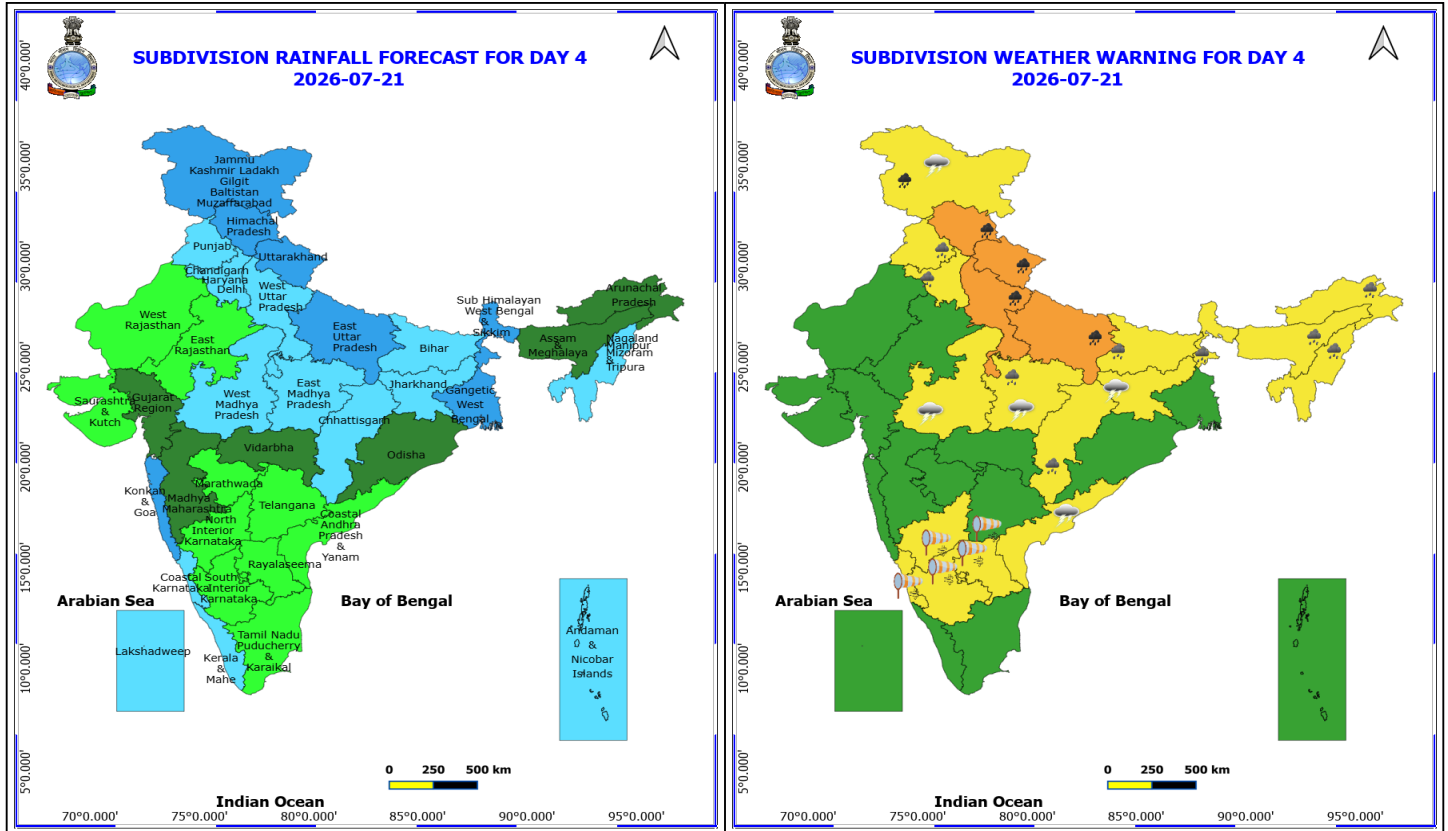
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam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

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## 21 July (Day 4)

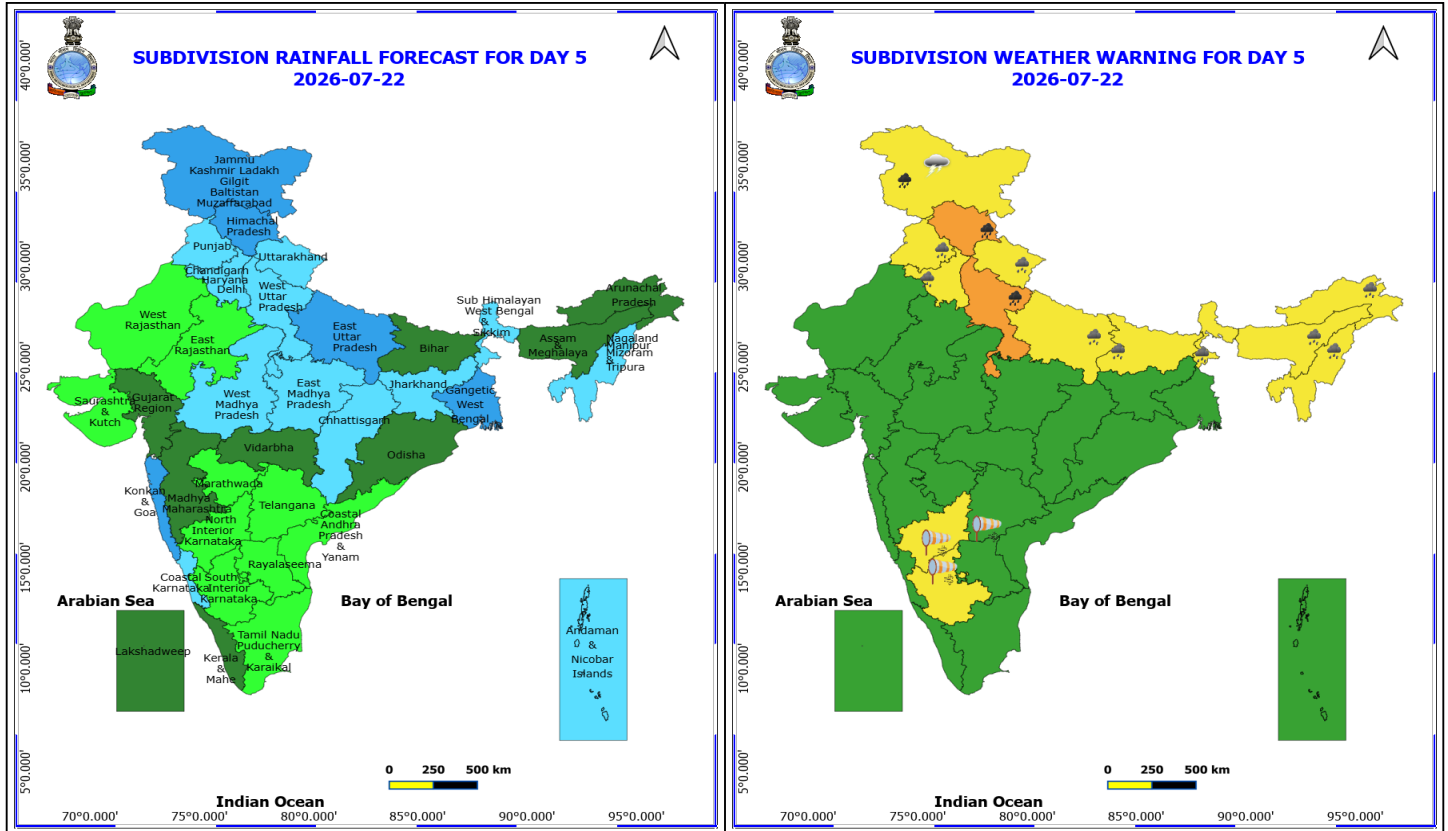
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttar Pradesh and Uttarakhand.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, East Madhya Pradesh,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

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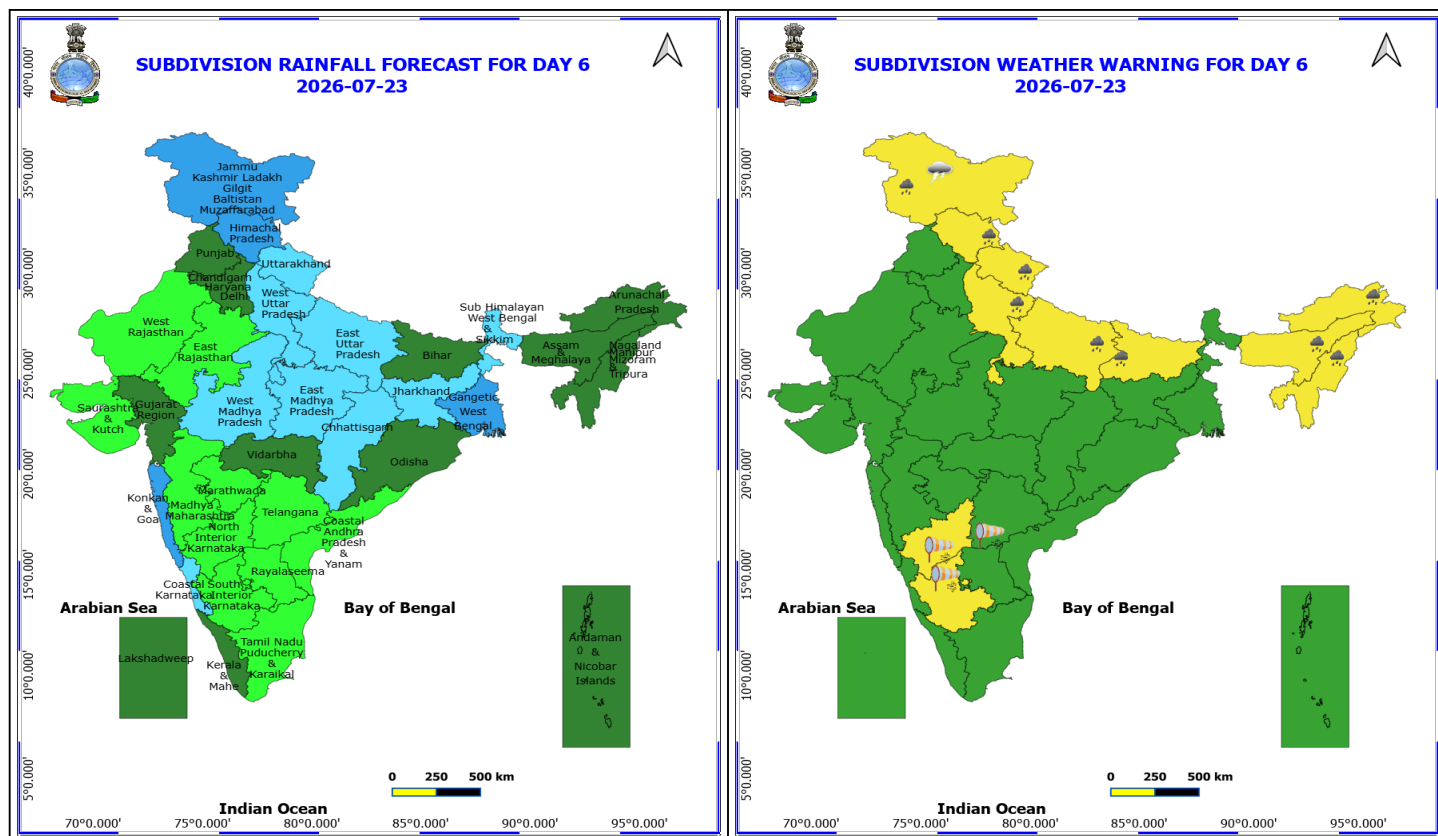
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## 22 July (Day 5)

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

**No Fishermen Warning**



## 23 July (Day 6)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Bihar, Gangetic West Bengal, Interior Karnataka, Rajasthan and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Strong Surface Winds** likely at isolated places over Interior Karnataka and Telangana.

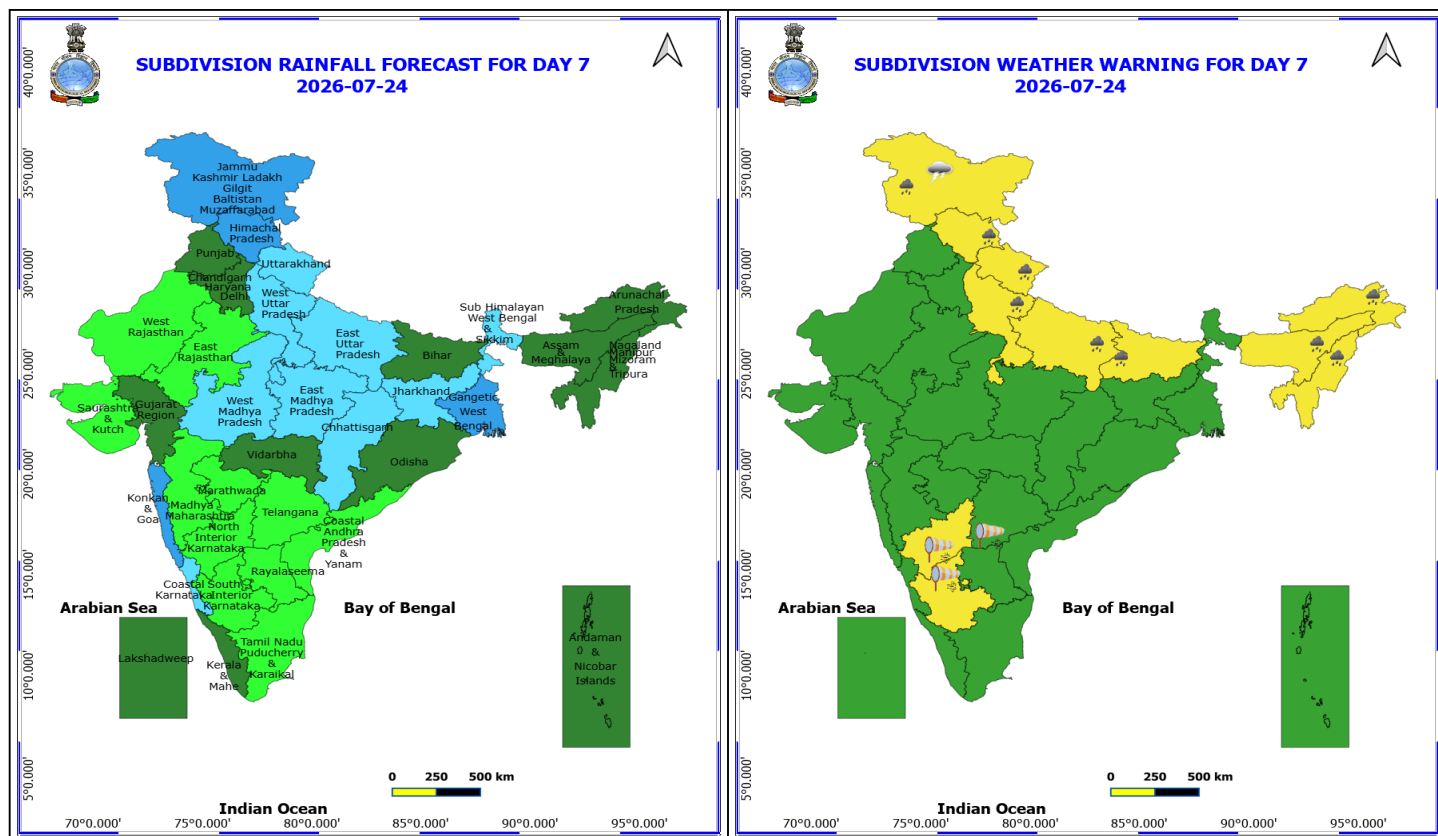
**No Fishermen Warning**

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## 24 July (Day 7)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Bihar, Gangetic West Bengal, Interior Karnataka, Rajasthan and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Strong Surface Winds** likely at isolated places over Interior Karnataka and Telangana.

**No Fishermen Warning**

## Flash Flood Warnings

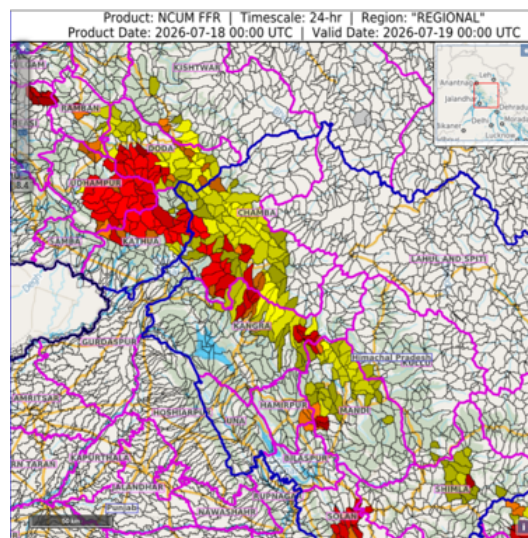
### 24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 19-07-2026 :

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

Jammu & Kashmir- Udhampur, Ramban, Kishtwar, Kathua and Doda districts.

Himachal Pradesh – Chamba, Mandi and Kangra 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.

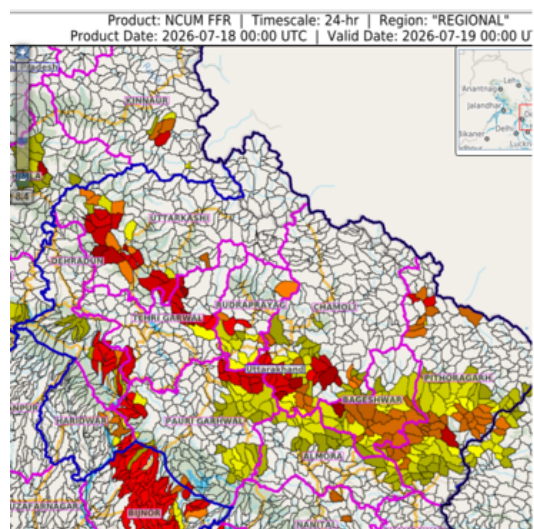


### 24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 19-07-2026 :

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

**Uttarakhand** - Almora, Bageshwar, Chamoli, Champawat, Dehradun, Nainital, Pauri Garhwal, Pithoragarh, Rudrapur, Tehri Garhwal, 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.



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## Table-1

### 7 Days Rainfall Forecast

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

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

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Fig. 1: Maximum Temperatures Dated 2026-07-17

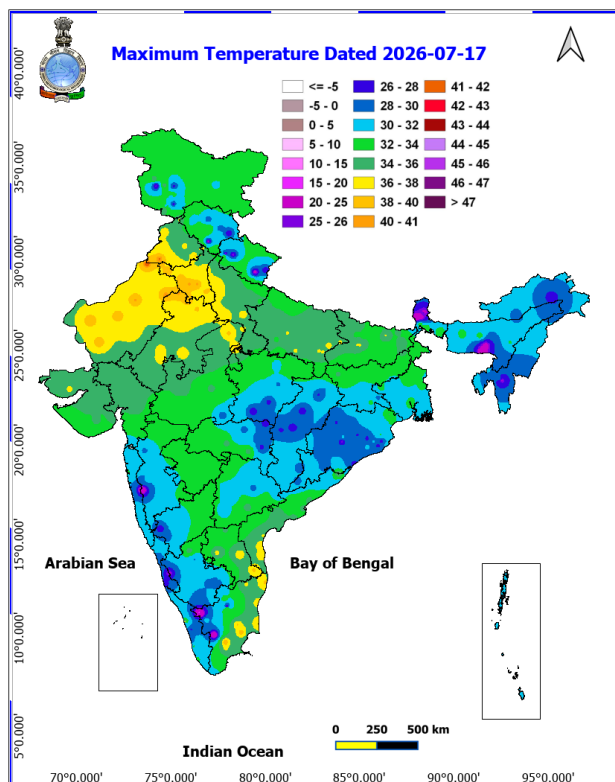


Fig. 2: Departure of Maximum Temp. Dated 2026-07-17

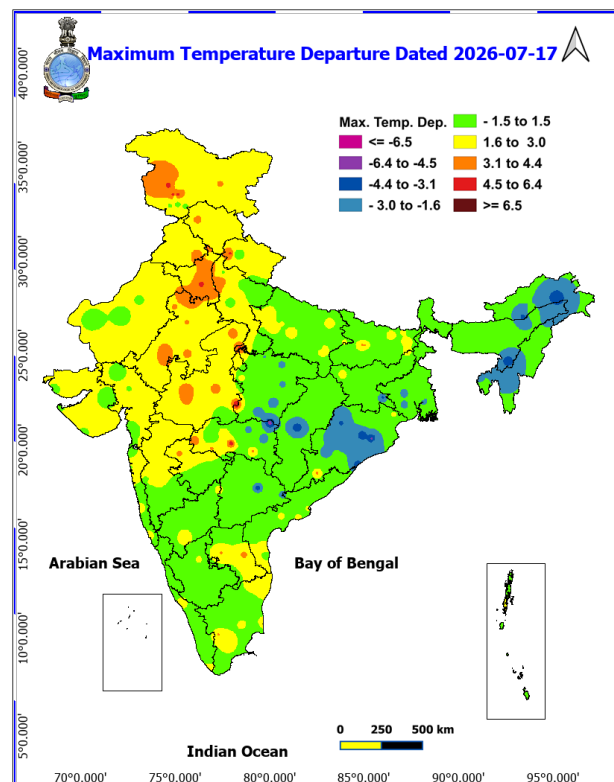


Fig. 3: Minimum Temperatures Dated 2026-07-17

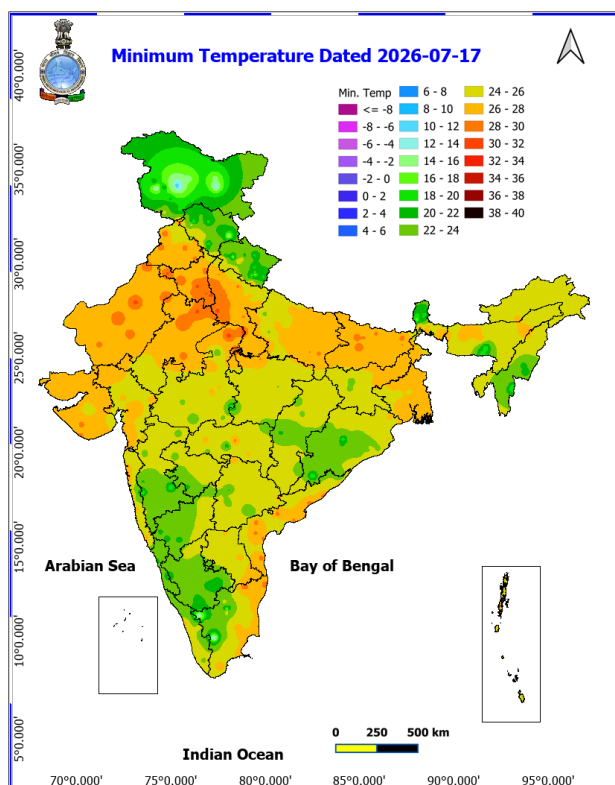
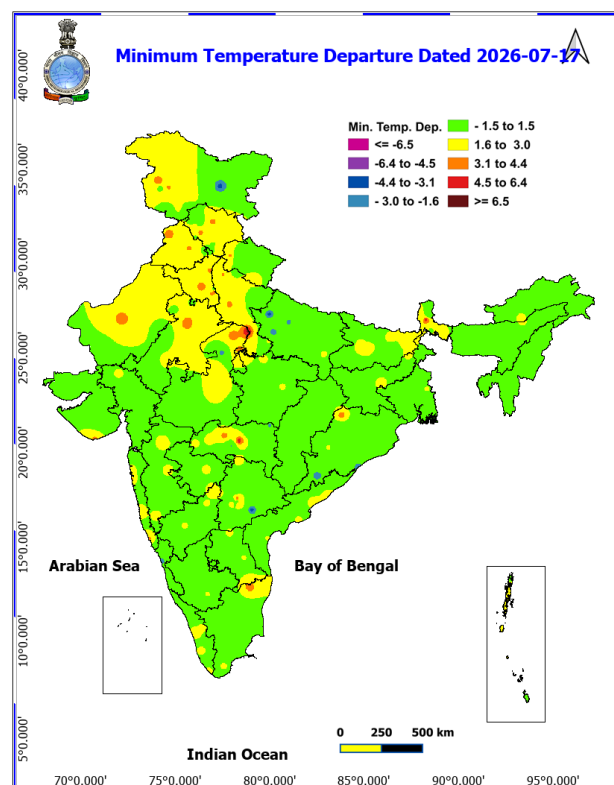
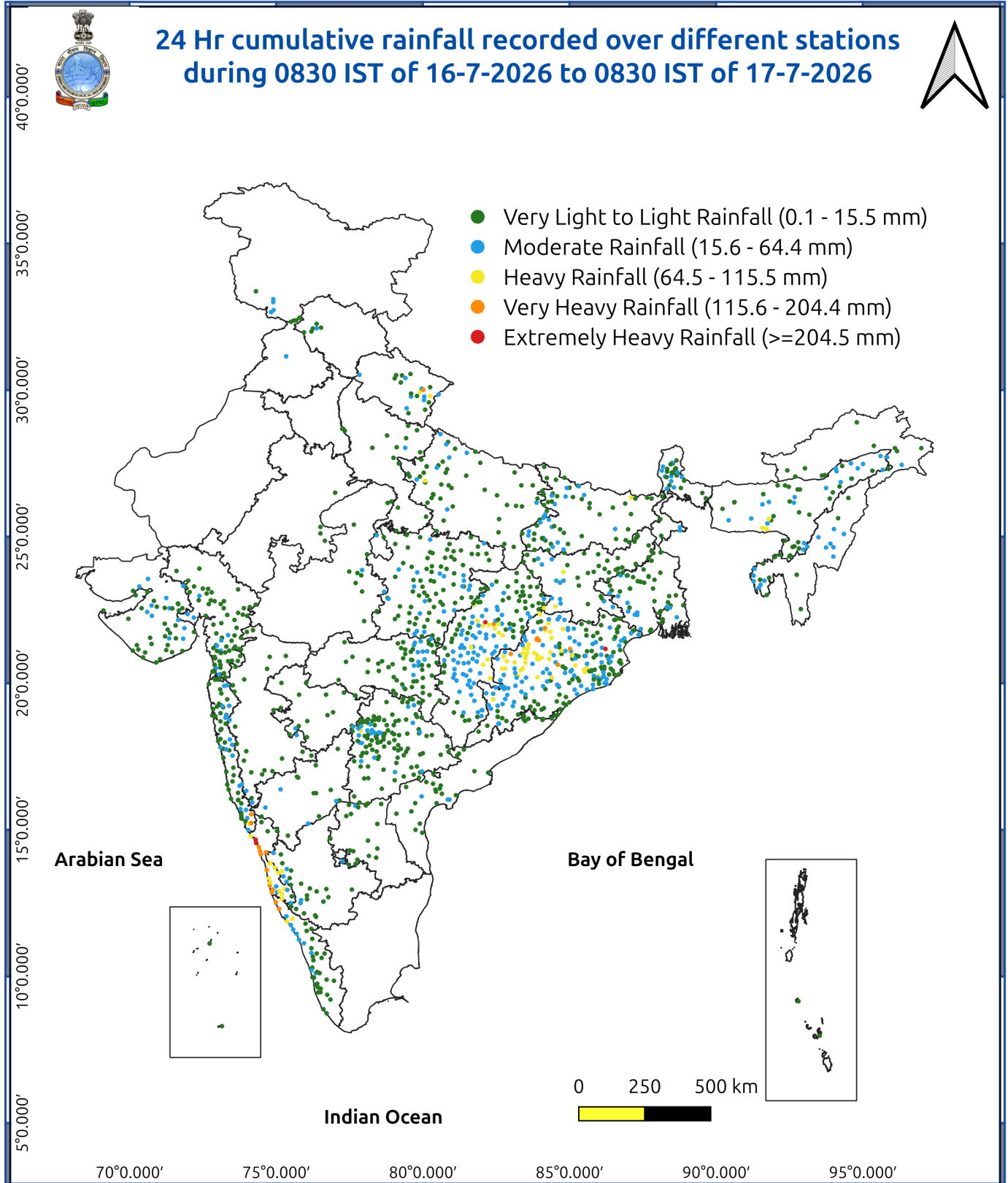


Fig. 4: Departure of Minimum Temp. Dated 2026-07-17





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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 Sub-Himalayan West Bengal & Sikkim on 18<sup>th</sup> & 19<sup>th</sup> 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/landslides/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 **Chhattisgarh**, maintain continuous drainage in rice nurseries and standing fields of maize, soybean, pigeon pea and minor millets to prevent prolonged waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **Arunachal Pradesh**, ensure continuous drainage of excess rainwater from rice, maize, soybean and finger millet fields to prevent prolonged waterlogging.
- In **Nagaland, Manipur, Mizoram and Tripura** ensure continuous and effective drainage and remove any accumulated rainwater from soybean, black gram, ginger, turmeric, cole crop and vegetable fields to prevent residual waterlogging.
- In **Sikkim**, ensure proper drainage in rice nurseries and standing crop fields to prevent waterlogging.
- In **West Bengal**, ensure continuous and effective drainage in rice nurseries, jute, ginger and vegetable fields to prevent prolonged waterlogging. Inspect and strengthen bunds around rice nurseries and harvest mature tea leaves and vegetables wherever field conditions permit.
- In **Jharkhand**, ensure proper drainage in standing crop fields to prevent waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **Bihar**, ensure continuous drainage in rice, maize, sesame and pigeon pea fields to prevent prolonged waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **Odisha**, maintain continuous drainage and keep field channels clear to prevent prolonged waterlogging in rice, maize, pulses, oilseed and vegetable fields. Strengthen field bunds and postpone irrigation, fertilizer and plant protection operations until field conditions become suitable.
- In **Uttarakhand**, postpone sowing of groundnut, soybean and maize. Ensure proper drainage in rice, tomato and chilli fields to prevent waterlogging. Harvest mature tomato only during rain-free periods and continue rice

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transplanting wherever field conditions permit.

- In **Himachal Pradesh**, ensure proper drainage in maize, finger millet, cucurbit, tomato and capsicum fields to prevent waterlogging. Harvest mature crops wherever field conditions permit.
- In **East 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.
- In **Keralam**, provide adequate drainage facilities in banana, coconut, cardamom, ginger, black pepper and vegetables. Provide staking support in banana plants and strengthen the pandals of vegetable crops. Avoid transplanting of rice during heavy rain.
- In **Karnataka**, ensure proper drainage in rice seedbeds, rice fields and fruit orchards fields of maize and ginger and plantations of arecanut and coconut to prevent water stagnation.
- In the regions expecting heavy rainfall, including **Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha and Telangana** withhold irrigation in standing crops, make necessary arrangements to remove excess rain water from the crop fields.

#### 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.

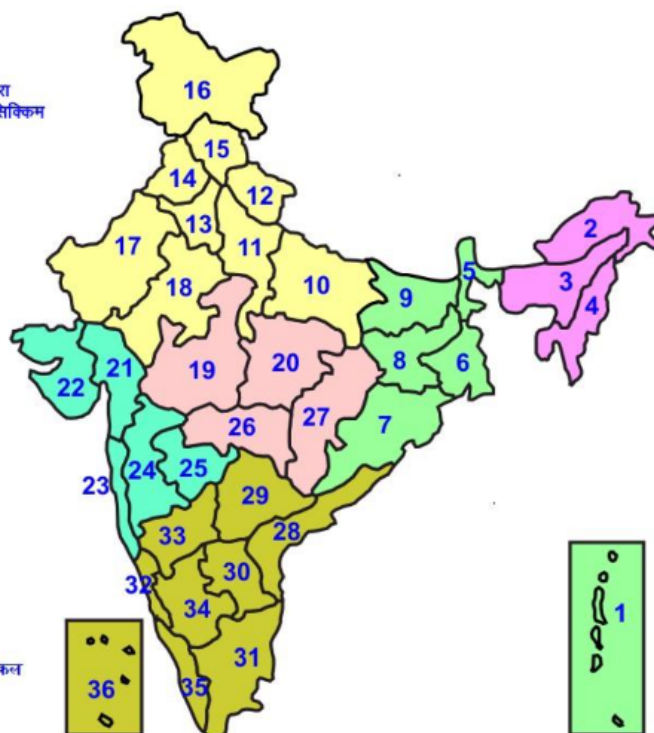
#### Legends & abbreviations:

#### Region wise classification of meteorological Sub-Divisions:

- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana Chandigarh & Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (Konkan) & Goa, Madhya Maharashtra and Marathawada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

## 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

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

### Probabilistic Forecast

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



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



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

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

(b). Based on Actual maximum temperature

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

(c). Criteria for heat wave for coastal stations

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



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

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



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

(a). Based on departure

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

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

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

(c) For Coastal Stations

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



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

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



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

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



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



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



Ice deposits on ground

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



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

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



Effect of various waves in the sea over specific area

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



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

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

\*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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