

2025-07-16

Time of Issue: 13:30:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings:

##### Northwest India:

Isolated **heavy rainfall** likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Uttar Pradesh during 16<sup>th</sup>-22<sup>nd</sup>; Punjab, Haryana on 16<sup>th</sup>, 17<sup>th</sup>, 21<sup>st</sup> & 22<sup>nd</sup>; West Rajasthan on 16<sup>th</sup>; East Rajasthan on 16<sup>th</sup> & 17<sup>th</sup> July with **very heavy rainfall over Jammu & Kashmir, north Punjab on 16<sup>th</sup>; Uttarakhand on 16<sup>th</sup>, 17<sup>th</sup> and during 20<sup>th</sup>-22<sup>nd</sup>; West Uttar Pradesh on 17<sup>th</sup>; East Uttar Pradesh on 16<sup>th</sup> & 17<sup>th</sup> and Himachal Pradesh on 21<sup>st</sup> & 22<sup>nd</sup> July.**

Light/moderate rainfall at most/many places accompanied with thunderstorm, lightning likely over western Himalayan region and some/many places over the plains during next 7 days.

##### East & Central India:

Isolated **heavy rainfall** very likely to continue over West Madhya Pradesh during 16<sup>th</sup>-18<sup>th</sup>, East Madhya Pradesh, Chhattisgarh during 16<sup>th</sup>-18<sup>th</sup>; 21<sup>st</sup> & 22<sup>nd</sup>; Bihar on 16<sup>th</sup>, 17<sup>th</sup>, 20<sup>th</sup> & 21<sup>st</sup>; Andaman & Nicobar Islands on 17<sup>th</sup>; Odisha on 16<sup>th</sup>, 21<sup>st</sup> & 22<sup>nd</sup>; Sub-Himalayan West Bengal & Sikkim on 16<sup>th</sup> and during 19<sup>th</sup>-22<sup>nd</sup> July **with very heavy rainfall over Chhattisgarh, Bihar and Jharkhand on 16<sup>th</sup> July.**

Light/moderate rainfall at most/many places accompanied with thunderstorm & lightning likely over the region during next 7 days.

##### West India:

**Heavy rainfall** likely at isolated places over Konkan & Goa during 20<sup>th</sup>-22<sup>nd</sup>; Ghat areas of Madhya Maharashtra on 16<sup>th</sup>; Goa on 16<sup>th</sup> July.

Light/moderate rainfall at many/some places very likely over the region during next 5 days.

##### Northeast India:

Light/moderate rainfall at many places accompanied with **thunderstorm, lightning** likely to continue over Northeast India during next 7 days.

Isolated **heavy rainfall** very likely over Arunachal Pradesh on 16<sup>th</sup> and during 19<sup>th</sup>-22<sup>nd</sup>; Assam & Meghalaya during 19<sup>th</sup>-22<sup>nd</sup> and Mizoram & Tripura on 19<sup>th</sup> & 20<sup>th</sup> July with very heavy rainfall over Arunachal Pradesh on 21<sup>st</sup> & 22<sup>nd</sup> July.

##### South Peninsular India:

Isolated **heavy to very heavy rainfall** likely over Kerala & Mahe, Tamil Nadu, Coastal & South Interior Karnataka during 16<sup>th</sup>-22<sup>nd</sup>; isolated **heavy rainfall** over Lakshadweep on 16<sup>th</sup>, 19<sup>th</sup> & 20<sup>th</sup>; Coastal Andhra Pradesh & Yanam during 18<sup>th</sup>-20<sup>th</sup>; Rayalaseema on 18<sup>th</sup> & 19<sup>th</sup> and Telangana during 17<sup>th</sup>-19<sup>th</sup> July.

**Strong surface winds** (speed reaching 40-50 kmph) very likely over South Peninsular India during next 5 days.

Light/moderate rainfall at many/some places over Kerala & Mahe, Lakshadweep, Karnataka, Rayalaseema; isolated to scattered rainfall over Coastal Andhra Pradesh & Yanam, Telangana during next 7 days.

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**Hot & Humid weather Warnings:**

Hot & Humid weather conditions very likely in isolated pockets of Coastal Andhra Pradesh & Yanam and Tamil Nadu on 16<sup>th</sup> July.

### Main Weather Observations:

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

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Uttarakhand**: Haripur (dist Dehradun) 22; **Konkan & Goa**: Roha (dist Raigad) 21; Sudhagad Pali (dist Raigad) 20; Mhasla (dist Raigad) 17; Tala (dist Raigad) 15; Mangaon (dist Raigad) 14; Poladpur (dist Raigad) 12; Mandangad (dist Ratnagiri), Pen (dist Raigad), Quepem (dist South Goa) 11 Each; Mahad (dist Raigad) 10; **Jharkhand**: Chainpur (dist Palamu) 20; Daltonganj (dist Palamu) 16; Rajdhanwar (dist Giridih) 15; Dhurki (dist Garhwa) 11; Sikatia (dist Deoghar), Lesliganj (dist Palamu) 10 Each; **Bihar**: Dobhi (dist Gaya) 19; Sherghati (dist Gaya), Fatehpur (dist Gaya) 18 Each; Kodawanpur/C.b li (dist Begusarai), Barachatti (dist Gaya), Mohanpur (dist Gaya) 17 Each; Cheria B.pur 1 (dist Begusarai), Bankey Bazar (dist Gaya) 16 Each; Dalsinghsarai (dist Samastipur), Khaira (dist Jamui) 14 Each; Garhi (dist Jamui), Sonbarsa (dist Saharsa), Nawkothe (dist Begusarai), Imamganj (dist Gaya), Tankuppa (dist Gaya) 13 Each; Madanpur (dist Aurangabad), Bachwara (dist Begusarai) 12 Each; Adhwara (dist Bhabua), Chakai (dist Jamui), Gidhaur (dist Jamui), Sirdala (dist Nawada) 11 Each; Barauni (dist Begusarai), Wazirganj (dist Gaya), Kutumba (dist Aurangabad), Bhagwanpur (dist Begusarai), Belaganj (dist Gaya) 10 Each; **Chhattisgarh**: Ramanujganj (dist Balrampur) 12; Doura Kochali (dist Balrampur), Chalgali (dist Balrampur), Suhela (dist Baloda Bazar) 10 Each; **Coastal Karnataka**: Kota (dist Udupi) 10.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Extremely heavy rain** at isolated places over Uttarakhand and Konkan & Goa. **Heavy to very heavy rain** at isolated places over Jharkhand, Bihar, Konkan & Goa and Chhattisgarh. **Heavy rain** at a few places over Coastal Karnataka and at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Odisha, Uttarakhand, West Rajasthan, East Madhya Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.

❖ **Minimum Temperature Departures (as on 16-07-2025): markedly above normal(> 5.1°C)** at most places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at few places over Sub Himalayan West Bengal & Sikkim and East Rajasthan; at isolated places over Assam & Meghalaya, West Uttar Pradesh, 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 Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Chhattisgarh; at isolated places over Gangetic West Bengal, Odisha and Coastal Andhra Pradesh & Yanam. **above normal(1.6°C to 3.0°C)** at few places over Marathwada, Vidarbha, Telangana and Rayalaseema; at isolated places over Andaman & Nicobar Islands, Jharkhand, Uttarakhand, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Haryana-Chandigarh-Delhi, Punjab and Kerala & Mahe; at most places over Arunachal Pradesh, Bihar, East Uttar Pradesh, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, North Interior Karnataka and Lakshadweep. **The lowest minimum temperature** of 18.2°C is reported at NARSINGHPUR (MADHYA PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 15-07-2025): markedly above normal(> 5.1°C)** at isolated places over Himachal Pradesh and Coastal Andhra Pradesh & Yanam. **appreciably above normal(3.1°C to 5.0°C)** at few places over Chhattisgarh; at isolated places over Odisha, Uttarakhand and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at many places over Gujarat Region; at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at few places over Nagaland, Manipur, Mizoram & Tripura and Rayalaseema; at isolated places over Haryana-Chandigarh-Delhi, Punjab, Saurashtra & Kutch, North Interior Karnataka and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at most places over Andaman & Nicobar Islands, Assam & Meghalaya and Lakshadweep; at few places over Sub Himalayan West Bengal & Sikkim, West Rajasthan, East Rajasthan, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka and South Interior Karnataka; at isolated places over Gangetic West Bengal. **The highest maximum temperature** of 40.6°C is reported at MADURAI (A) (TAMIL NADU).

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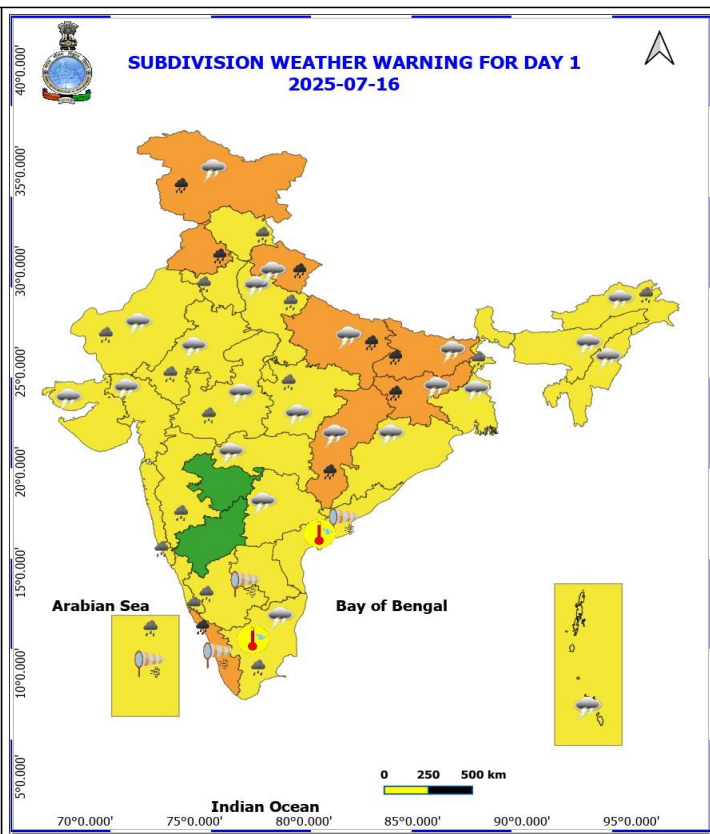
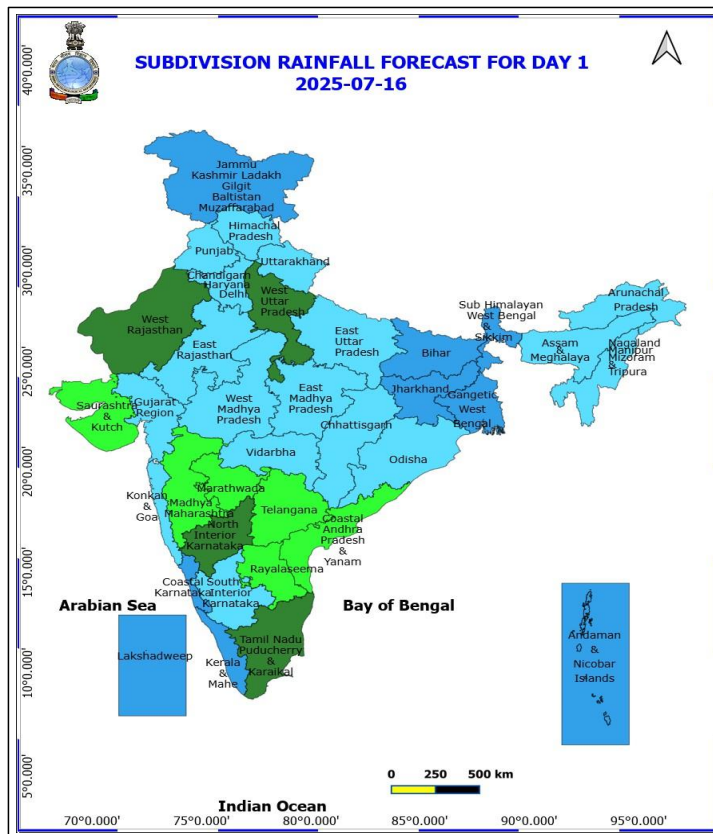
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#### Meteorological Analysis (Based on 0830 hours IST)

- The **Well Marked Low Pressure** area over northwest Rajasthan and neighbourhood persists over the same region at 0830 hrs IST of today, the 16th July, 2025. The associated cyclonic circulation extends upto 5.8km above mean sea level. It is likely to move slowly north-northwestwards and weaken into a low-pressure area during next 12 hours.
- The **Well Marked Low Pressure** area over southwest Bihar and adjoining east Uttar Pradesh persists over the same region at 0830 hrs IST of today, the 16th July 2025. The associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestward with height. It is likely to move west-northwestwards across southwest Bihar and east Uttar Pradesh during next 24 hours.
- The **monsoon trough** at mean sea level now passes through centre of **well marked low Pressure area** over northwest Rajasthan & neighbourhood, Gwalior, center of **well marked low Pressure area** over southwest Bihar and adjoining east Uttar Pradesh, Purulia, Contai and thence southeastwards of northeast Bay of Bengal.
- The **Western Disturbance** as a trough in middle tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 68°E to the north of Lat. 22°N.

#### Weather Outlook for subsequent 3 days

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



## 16 July (Day 1)

❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Bihar, Chhattisgarh, East Uttar Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffargarh, Jharkhand, Kerala & Mahe, Punjab and Uttarakhand.

❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Coastal Karnataka, Haryana, Chandigarh & Delhi, Himachal Pradesh, Konkan & Goa, Lakshadweep, Madhya Maharashtra, Madhya Pradesh, Rajasthan, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim, Tamil Nadu Puducherry & Karaikal and West Uttar Pradesh.

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, Bihar, Gangetic West Bengal, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffargarh, Jharkhand, Odisha, Telangana, Uttarakhand and West Madhya Pradesh.

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, East Madhya Pradesh, Gujarat State, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh and Vidarbha.

❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and Lakshadweep.

❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.

Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over many parts of eastcentral

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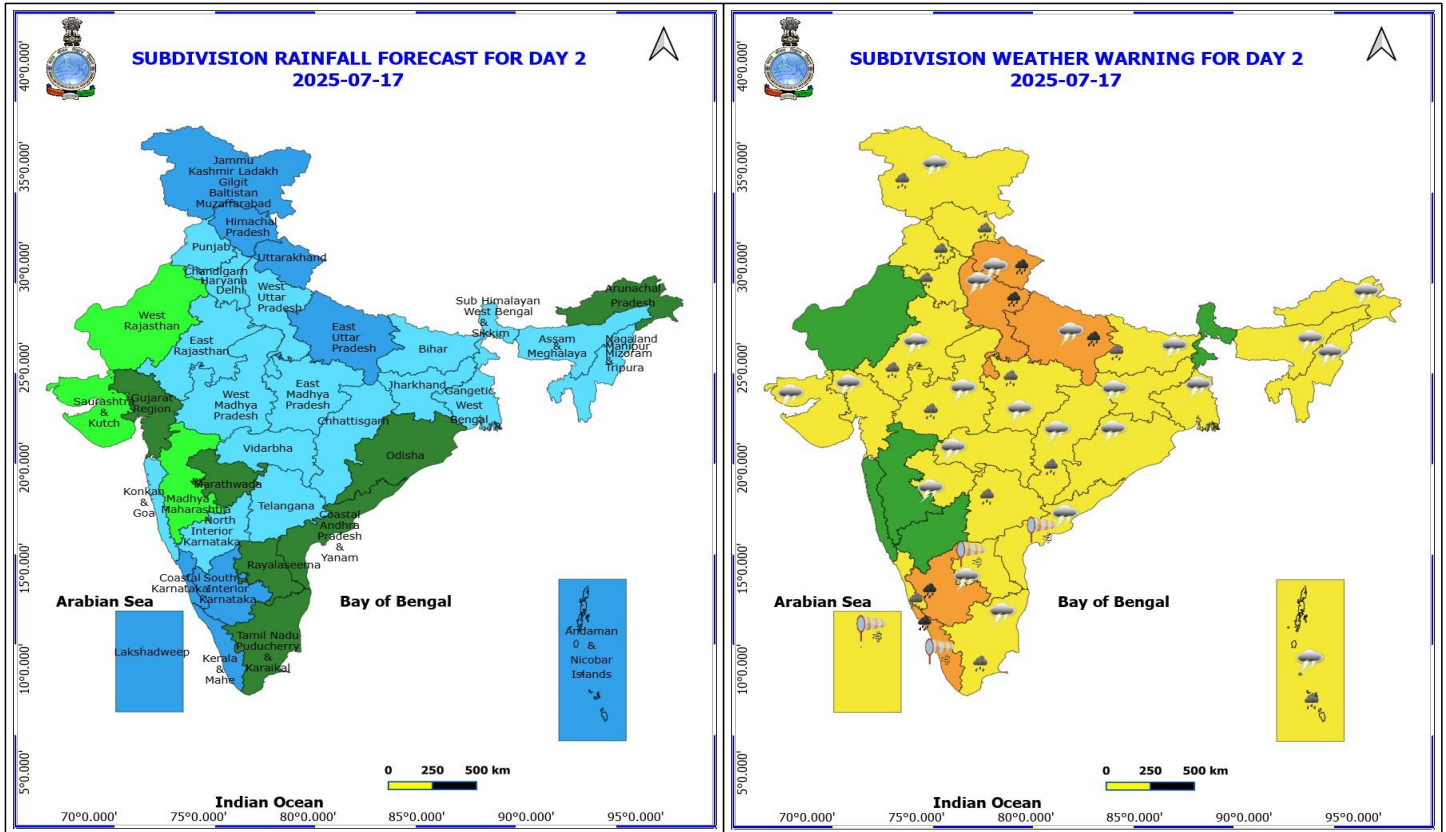
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Arabian Sea, adjoining and some parts of westcentral Arabian Sea, & adjoining, northern parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep area, Comorin area, most parts of southwest Bay of Bengal and adjoining parts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



## 17 July (Day 2)

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

Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.

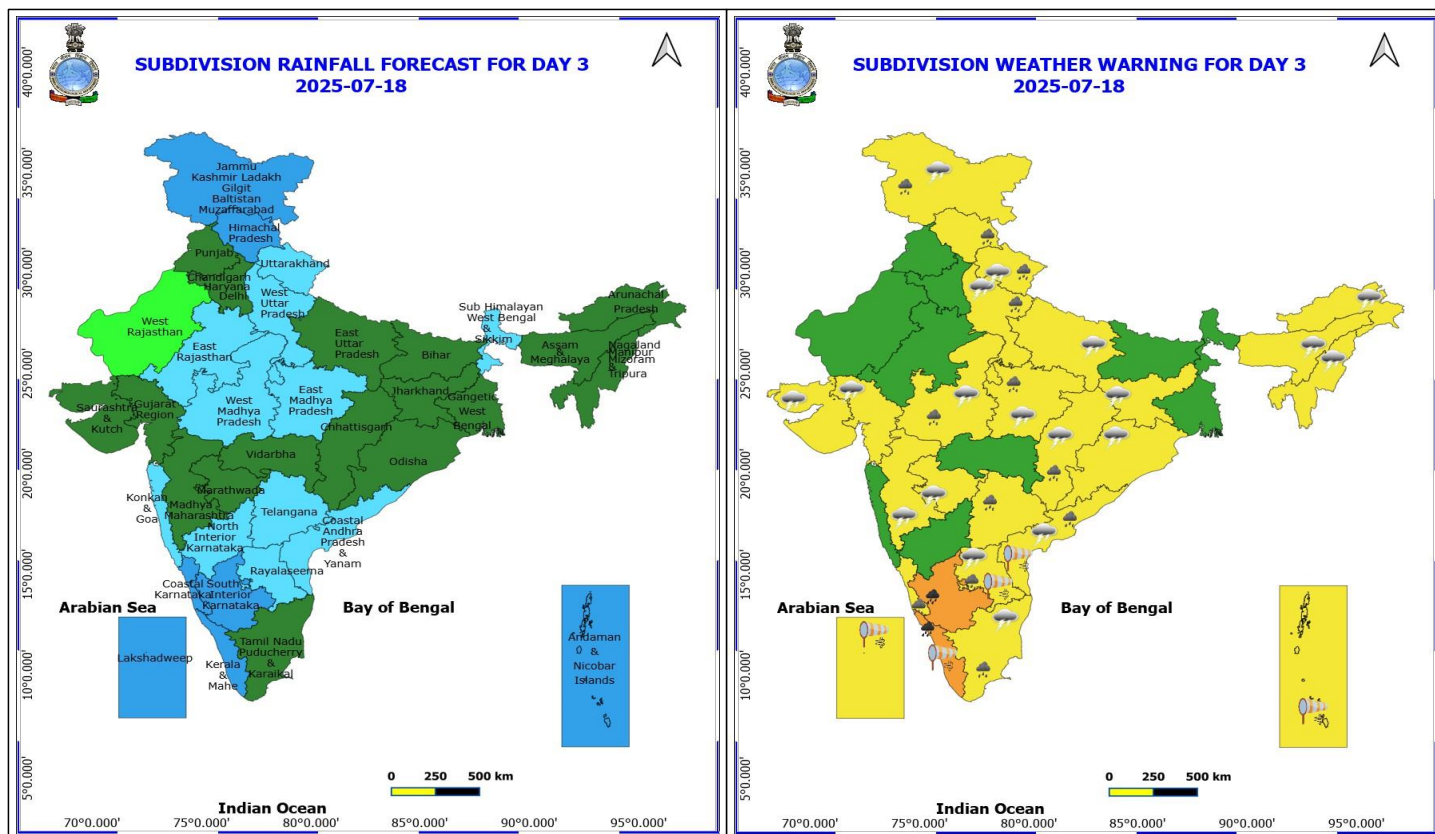
Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over many parts of eastcentral Arabian Sea, adjoining and some parts of westcentral Arabian Sea, & adjoining, northern parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep area, Comorin area,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

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## 18 July (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Kerala & Mahe and South Interior Karnataka.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Chhattisgarh, Coastal Karnataka, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal, Telangana, Uttarakhand and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Gujarat State, Jharkhand, Madhya Maharashtra, Madhya Pradesh, Marathwada, Nagaland, Manipur, Mizoram and Tripura, Tamil Nadu Puducherry & Karaikal and Uttar Pradesh.
- ❖ **Strong Surface Winds** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Kerala & Mahe and Lakshadweep.

Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.

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

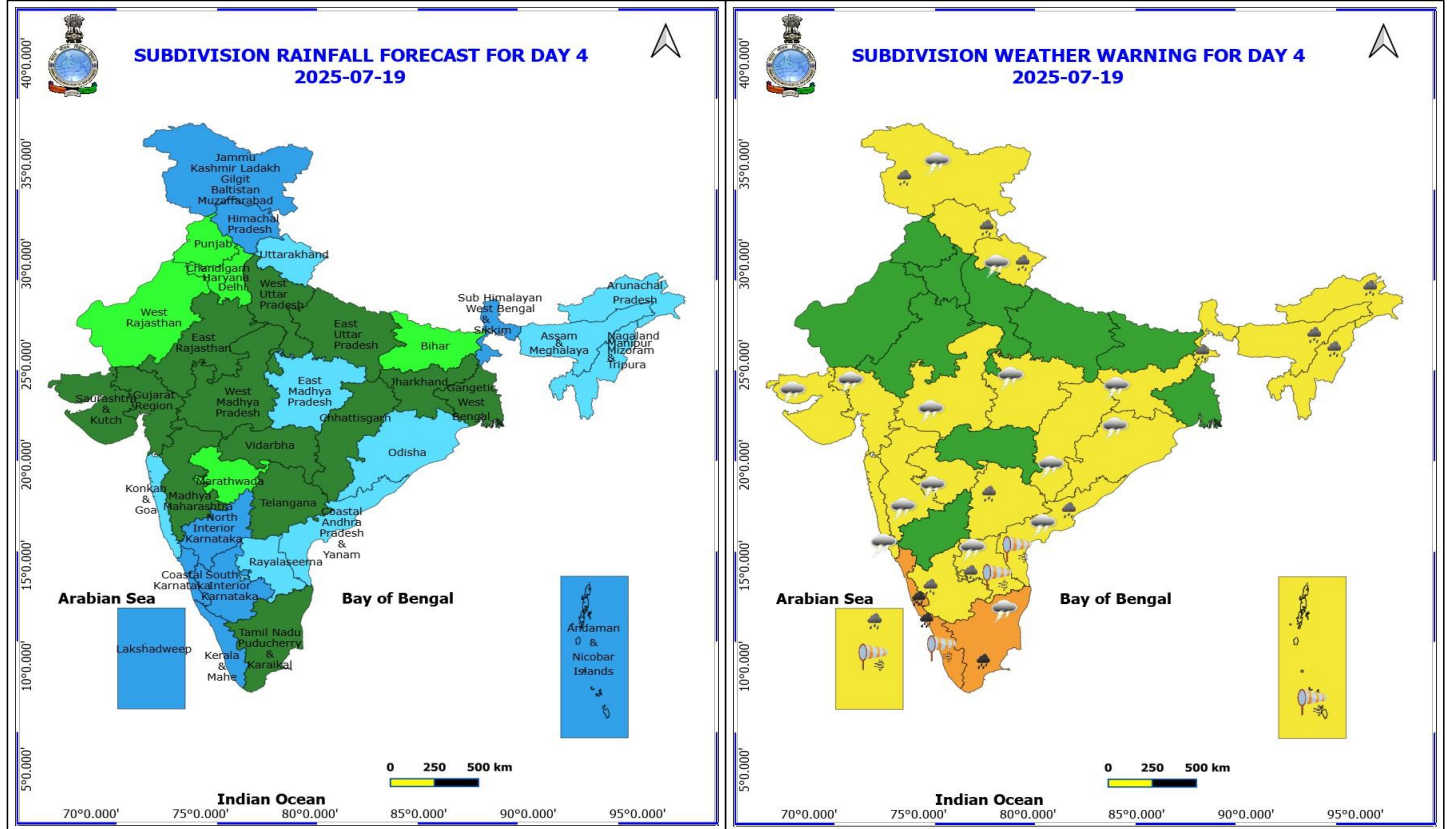
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## 19 July (Day 4)

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

Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.

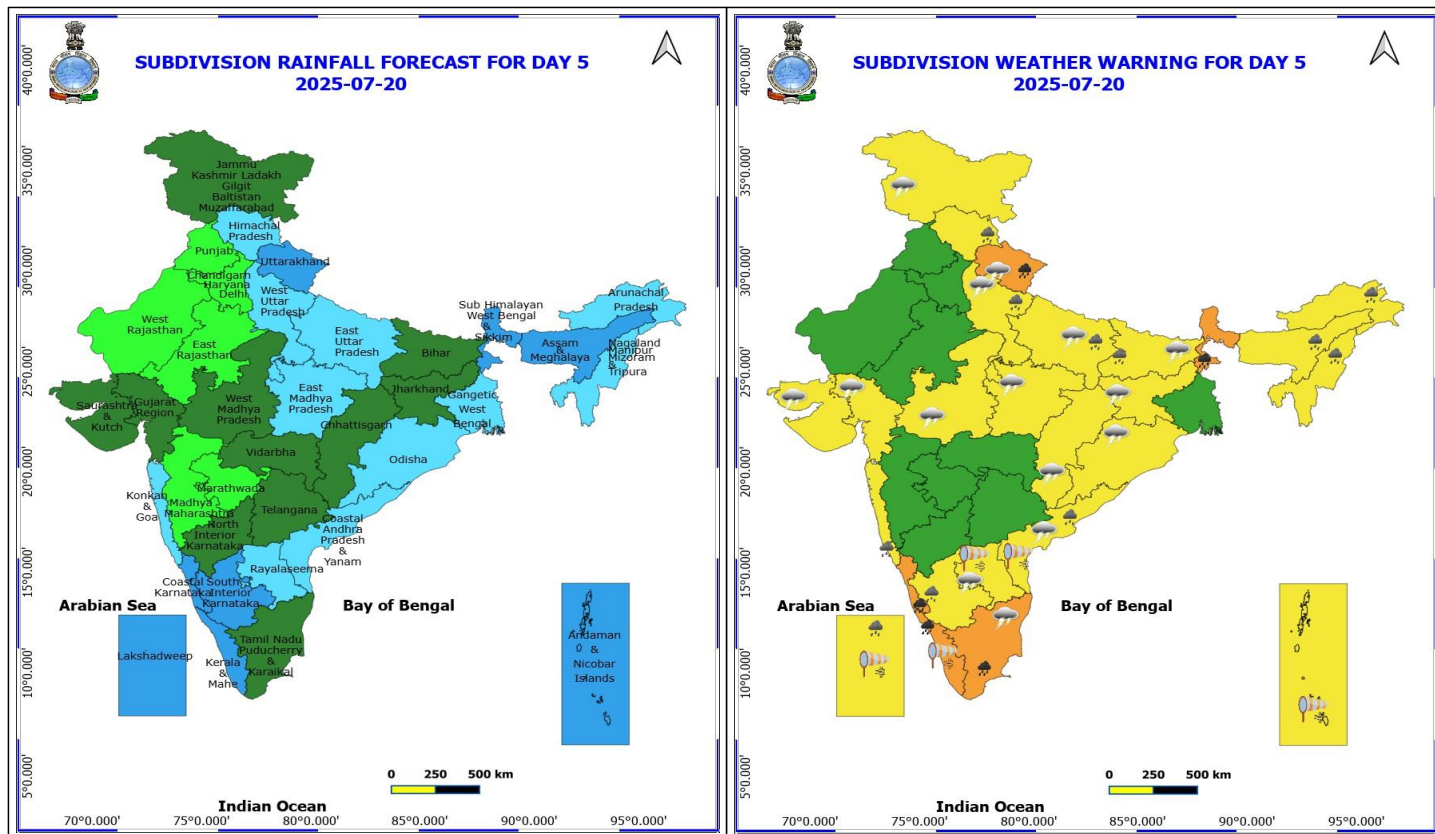
Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over southern parts of north Arabian Sea, most parts of eastcentral Arabian Sea, adjoining and many parts of westcentral Arabian Sea, northern parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep,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

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## 20 July (Day 5)

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

Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.

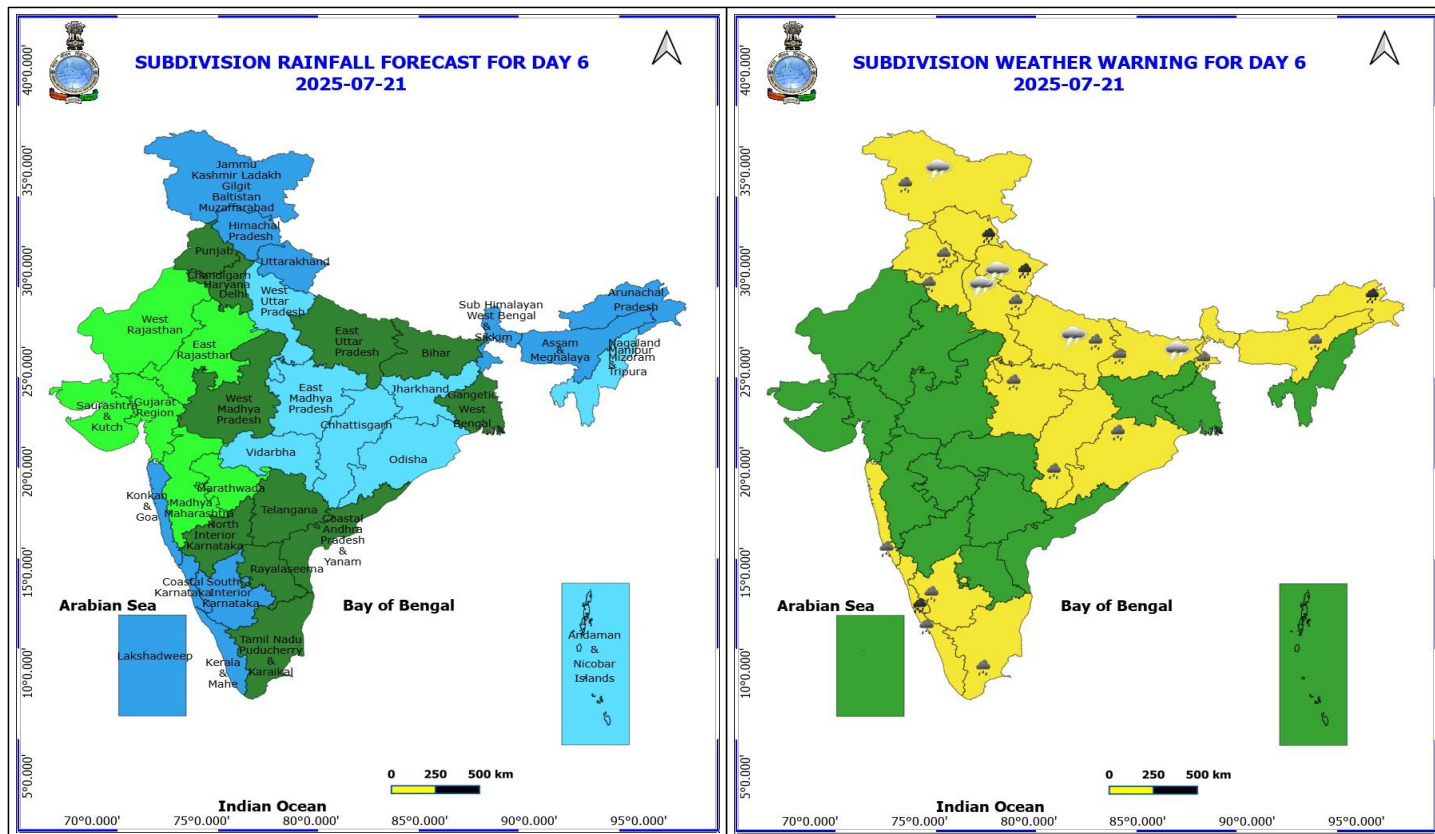
Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over southern parts of north Arabian Sea, most parts of eastcentral Arabian Sea, adjoining and many parts of westcentral Arabian Sea, northern parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep,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

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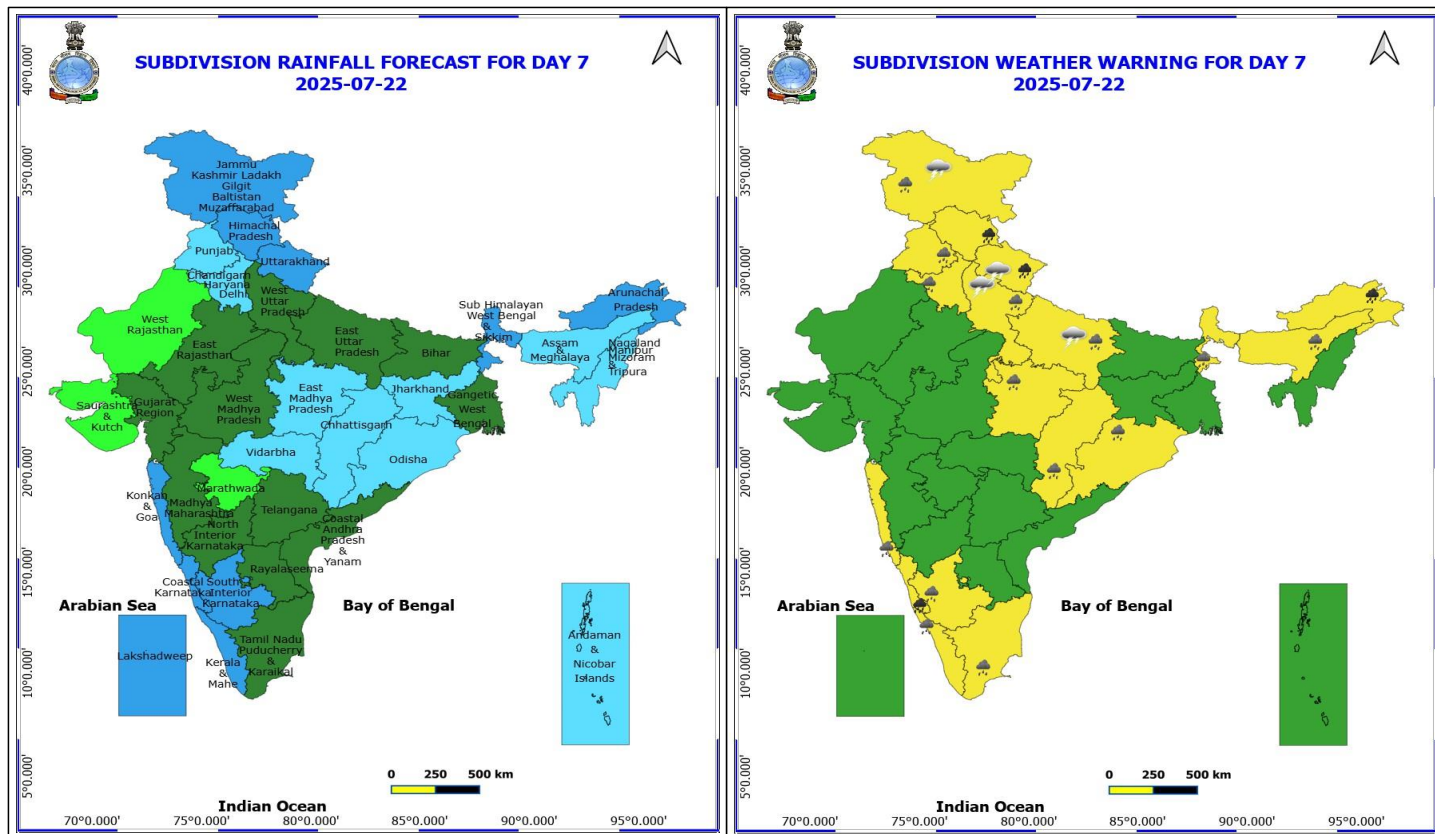


## 21 July (Day 6)

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

**No Fishermen Warning**





## 22 July (Day 7)

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

**No Fishermen Warning**



## Flash Flood Warnings

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 17-07-2025 :

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

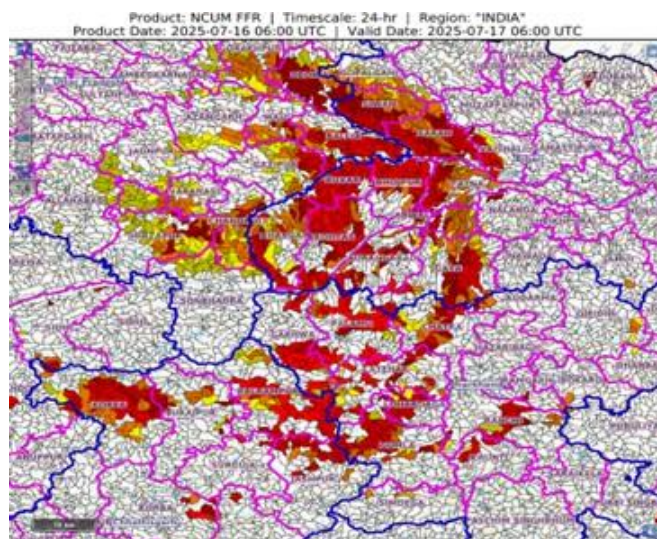
**East Uttar Pradesh** - Azamgarh, Ballia, Chandauli, Deoria, Gazipur, Gorakhpur, Mau, Mirzapur, Santkabirnagar, Santravidasnagar, Sonbhadra and Varanasi districts.

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

**Bihar** - Arwal, Aurangabad, Bhabua, Bhojpur, Buxar, Gaya, Gopalganj, Madubani, Nalanda, Patna, Rohtas, Saran, Siwan and Vaishali districts.

**Jharkhand** - Bokaro, Chatra, Dhanbad, Garhwa, Giridih, Gumla, Khunti, Latehar, Lohardaga, Palamu, Ramgarh, Ranchi and Simdega 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 17-07-2025 :

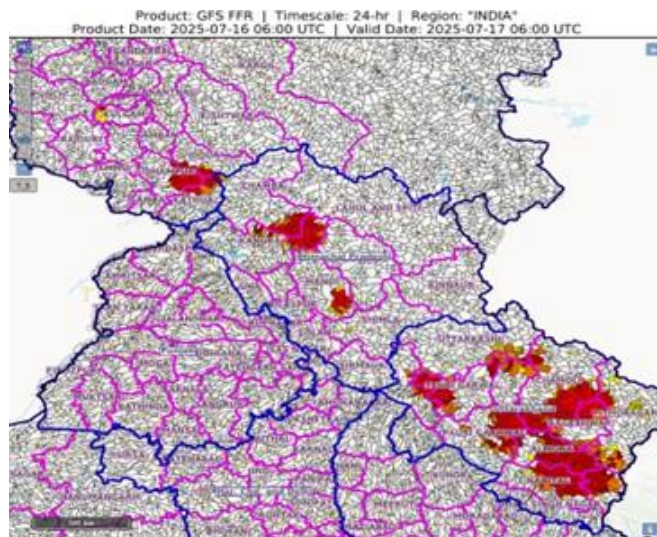
**Low to Moderate flash flood risk** likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

**Himachal Pradesh** - Chamba, Kangra, Kullu, Mandi and Shimla districts.

**Jammu & Kashmir & Ladakh** - Doda, Kathua, Kulgam, Riasi and Udhampur districts.

**Uttarakhand** - Almora, Bageshwar, Chamoli, Champawat, Dehradun, Nanital, 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.



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# Table-1

## 7 Days Rainfall Forecast

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

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

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Fig. 1: Maximum Temperatures Dated 2025-07-16

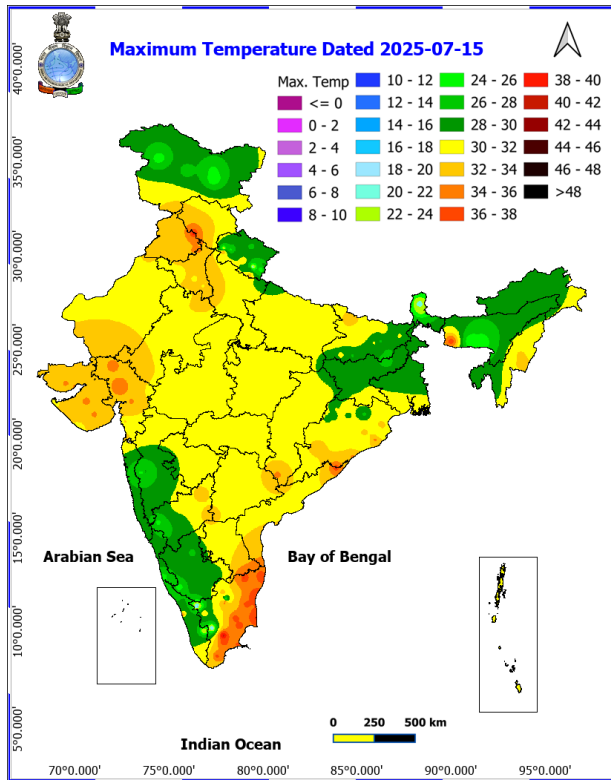


Fig. 2: Departure of Maximum Temp. Dated 2025-07-16

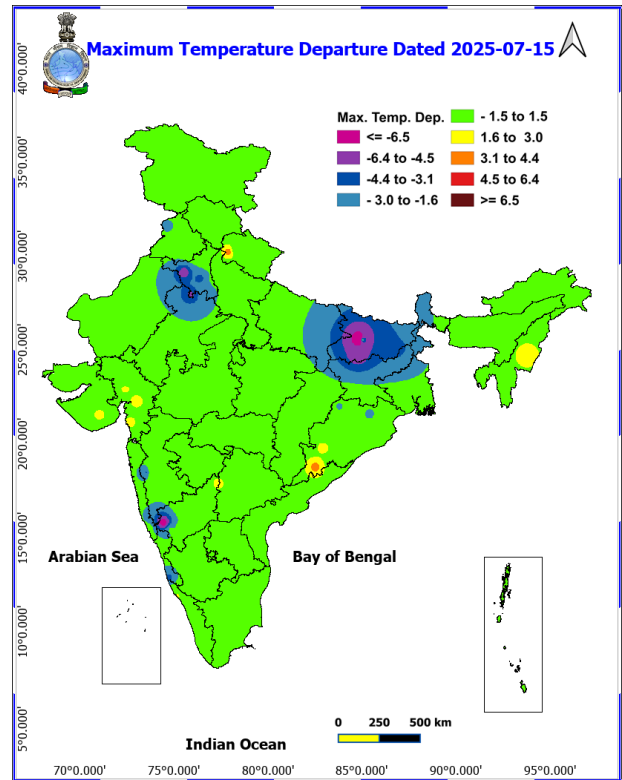


Fig. 3: Minimum Temperatures Dated 2025-07-16

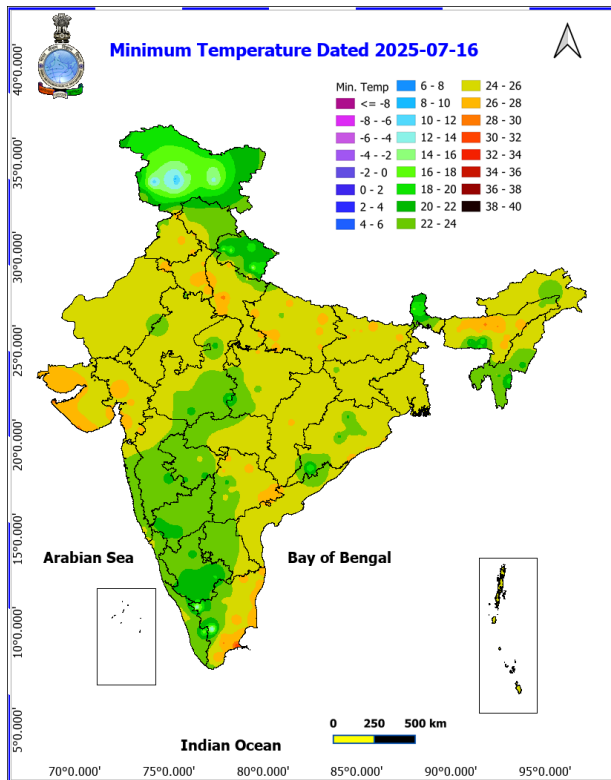
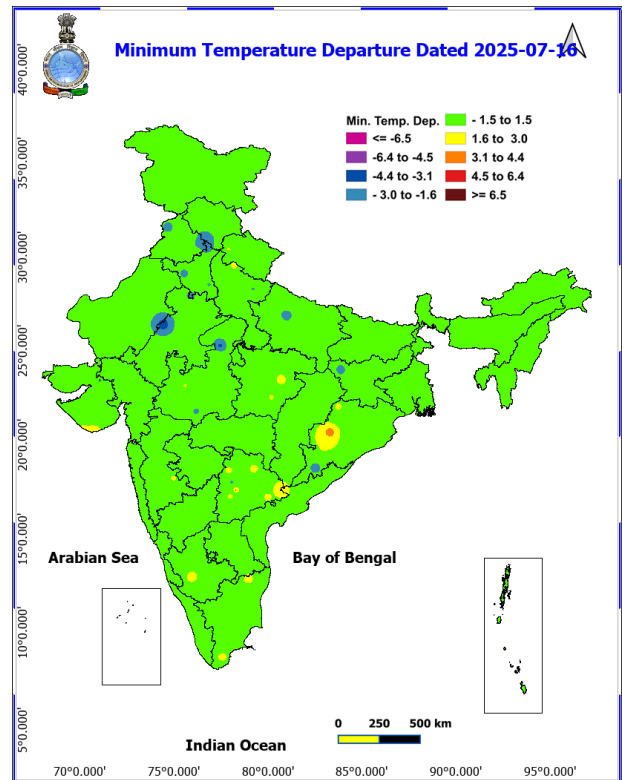
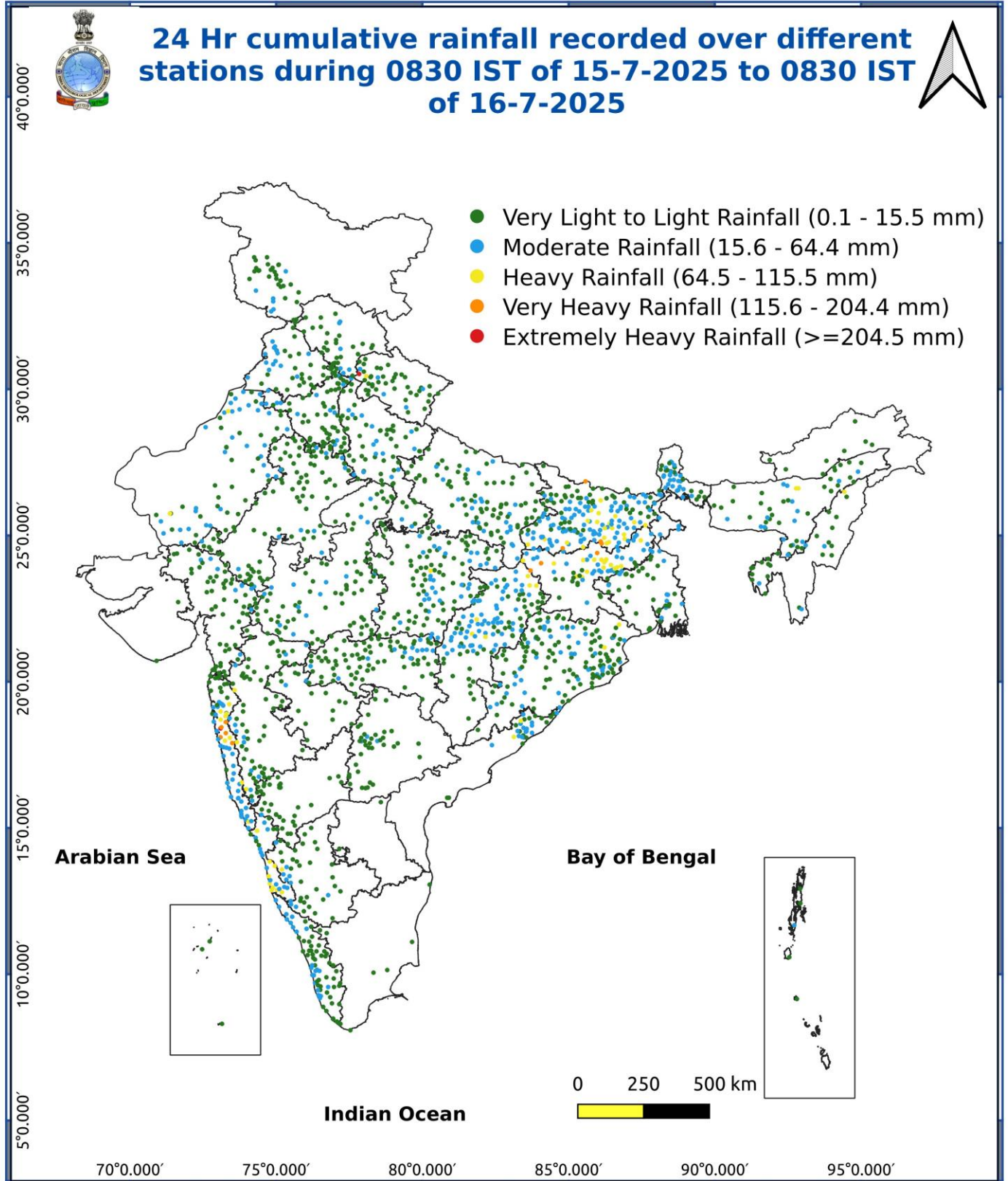


Fig. 4: Departure of Minimum Temp. Dated 2025-07-16









## Impact & suggested due to Extremely and heavy to very heavy rainfall over

**Very heavy rainfall very likely at isolated places over** Jammu & Kashmir, north Punjab, Chhattisgarh, Bihar and Jharkhand on 16<sup>th</sup>; Uttarakhand on 16<sup>th</sup>, 17<sup>th</sup> and during 20<sup>th</sup>-22<sup>nd</sup>; West Uttar Pradesh on 17<sup>th</sup>; East Uttar Pradesh on 16<sup>th</sup> & 17<sup>th</sup>; Himachal Pradesh on 21<sup>st</sup> & 22<sup>nd</sup>; Kerala & Mahe, Tamil Nadu, Coastal & South Interior Karnataka during 16<sup>th</sup>-22<sup>nd</sup> July.

### Impact Expected

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

### Action Suggested

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

Avoid staying in vulnerable structure.

## Agromet advisories for various parts of the country

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

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

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

In **Uttarakhand**, ensure proper drainage facilities in soybean, maize, barnyard millet, finger millet, pigeon pea, kidney beans, vegetables and orchards. Harvest matured vegetables and fruits and store in safe place.

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

In **Chhattisgarh**, make arrangements for drainage of excess water from fields of rice, maize, pigeon pea, minor millets and vegetables. Provide mechanical support to tall/weak crops with stakes or bamboo to prevent lodging or breakage.

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

In **Bihar**, do not allow rain water to stagnate in fields of maize, ragi, kodo, Sava, and vegetables in **North East Alluvial Zone** and ensure proper drainage in maize and vegetable crops in low-lying areas of **South Bihar Alluvial Zone**.

Drain out excess water from rice and finger millet nurseries, groundnut, vegetables and orchards in **Konkan** and rice and finger millet nurseries in **ghat areas** of **Madhya Maharashtra**.

In **Coastal Karnataka**, drain out excess water from rice nurseries, transplanted rice fields and plantations of arecanut and coconut in **Coastal Zone** and from rice nurseries and fields of maize, cotton and ginger and plantations of arecanut in **Hill Zone**. In **South Interior Karnataka**, make necessary arrangements to drain out excess water from fields of paddy, maize, black gram, green gram, field bean, cowpea, sugarcane, vegetables, ginger and plantations of coffee, pepper, cardamom, arecanut and banana in **Southern Dry Zone** and rice nurseries, fields of paddy, finger

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millet, maize and plantations of arecanut and black pepper in **Southern Transition Zone**.

In **Kerala**, ensure proper drainage facilities in rice nurseries, transplanted rice fields, coconut and banana plantations to prevent water logging. Undertake propping in banana to protect the plants from heavy rains.

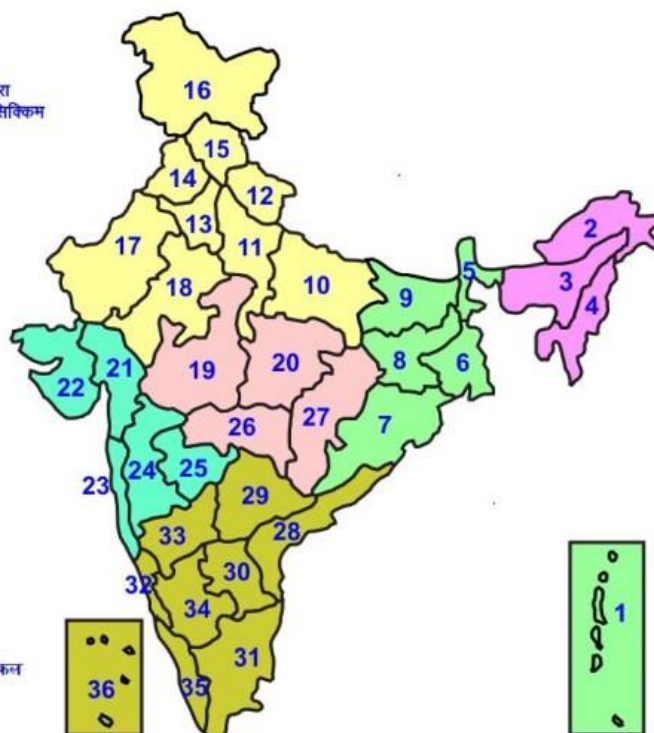
### **Livestock / Fishery**

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

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

## 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 कोकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

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

## Subdivision Colour

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

## Probabilistic Forecast

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

- |  |   |  |  |
|--|---|--|--|
|  Heavy Rain               |  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

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

### Probabilistic Forecast

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



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



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

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

(b). Based on Actual maximum temperature

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

(c). Criteria for heat wave for coastal stations

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



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

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



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

(a). Based on departure

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

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

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

(c) For Coastal Stations

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



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

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



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

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



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



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



Ice deposits on ground

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



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

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



Effect of various waves in the sea over specific area

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



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

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

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