

2025-07-12

Time of Issue: 08:22:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings

##### Northwest India:

- Isolated **heavy rainfall** likely over East Rajasthan, Uttarakhand, Himachal Pradesh during 12<sup>th</sup>-17<sup>th</sup>; Jammu-Kashmir during 14<sup>th</sup>-17<sup>th</sup>; West Uttar Pradesh during 12<sup>th</sup>-15<sup>th</sup>; East Uttar Pradesh on 12<sup>th</sup> & 15<sup>th</sup>; West Rajasthan during 12<sup>th</sup>-16<sup>th</sup> July with **very heavy rainfall** over East Rajasthan during 12<sup>th</sup>-15<sup>th</sup>; Uttarakhand on 15<sup>th</sup> & 16<sup>th</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 Madhya Pradesh during 12<sup>th</sup>-17<sup>th</sup>; Chhattisgarh during 12<sup>th</sup>-14<sup>th</sup>; Jharkhand during 12<sup>th</sup>-15<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 13<sup>th</sup>-16<sup>th</sup>; Gangetic West Bengal on 14<sup>th</sup>; Odisha during 12<sup>th</sup>-16<sup>th</sup>; 15<sup>th</sup> & 16<sup>th</sup> July with **very heavy rainfall** over Madhya Pradesh during 12<sup>th</sup>-14<sup>th</sup> July.
- Light/moderate rainfall at most/many places accompanied with accompanied with thunderstorm, lightning & gusty winds speed reaching 30-40 kmph likely over the region during next 7 days.

##### West India:

- **Heavy rainfall** likely at isolated places over Konkan & Goa during 13<sup>th</sup>-15<sup>th</sup>; Gujarat Region during 12<sup>th</sup>-17<sup>th</sup>; Ghat areas of Madhya Maharashtra on 13<sup>th</sup> & 14<sup>th</sup>; Saurashtra on 13<sup>th</sup> July.
- Light/moderate rainfall at many/some places very likely over the region during next 7 days.

##### Northeast India:

- Light/moderate rainfall at most places accompanied with **thunderstorm, lightning** likely to continue over Northeast India during next 7 days.
- Isolated **heavy rainfall** very likely over Assam & Meghalaya during 12<sup>th</sup>-17<sup>th</sup>; Mizoram & Tripura during 13<sup>th</sup>-15<sup>th</sup>; Arunachal Pradesh during 14<sup>th</sup>-17<sup>th</sup> July.

##### South Peninsular India:

- Isolated **heavy rainfall** likely over Coastal Karnataka, Kerala during 12<sup>th</sup>-17<sup>th</sup> and South Interior Karnataka & Tamil Nadu during 15<sup>th</sup>-17<sup>th</sup> July.
- **Strong surface winds** (speed reaching 40-50 kmph) very likely over South Peninsular India during next 3 days.
- Light/moderate rainfall at many/some places over Kerala & Mahe, Lakshadweep, Karnataka, Rayalaseema; isolated to scattered rainfall over Coastal Andhra Pradesh & Yanam, Telangana during next 7 days.

##### Hot & Humid weather Warnings:

- Hot & Humid weather conditions very likely in isolated pockets of east Assam on 12<sup>th</sup>; Tamil Nadu, Coastal Andhra Pradesh & Yanam and Rayalaseema on 12<sup>th</sup> & 13<sup>th</sup> July.

**Main Weather Observations:**

❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Konkan & Goa , East Rajasthan, Kerala & Mahe, Coastal Karnataka, Jharkhand and Lakshadweep ; **at many places** over Odisha, Madhya Maharashtra , Sub-himalayan West Bengal & Sikkim, Tamilnadu Puducherry & Karaikal, Uttarakhand, Assam & Meghalaya, Himachal Pradesh, Haryana Chandigarh & Delhi, East Madhya Pradesh, West Uttar Pradesh, East Uttar Pradesh, Bihar, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, West Madhya Pradesh, West Rajasthan, South Interior Karnataka, North Interior Karnataka, Chhattisgarh, Telangana, Marathwada, Saurashtra & Kutch, Vidarbha, Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): East madhya pradesh: Sidhi (dist Sidhi) 16, Khajuraho (dist Chhatarpur) 6, Umaria (dist Umaria) 5, Rewa (dist Rewa) 4, Satna (dist Satna) 3; West rajasthan: Bikaner (dist Bikaner) 6; **Jharkhand**: Daltonganj (dist Palamu) 6; Konkan & goa : Matheran (dist Raigad) 5; Coastal karnataka: Honavar (dist Uttara Kannada) 3; Coastal andhra pradesh & yanam: Bapatla (dist Bapatla) 3.

❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of today): Yesterday, **Heavy to very heavy rain** at isolated places over East Madhya Pradesh

❖ **Minimum Temperature Departures (as on 11-07-2025): markedly above normal(> 5.1°C)** at few places over Assam & Meghalaya; at isolated places over West Uttar Pradesh, Himachal Pradesh, West Madhya Pradesh and Saurashtra & Kutch. **appreciably above normal(3.1°C to 5.0°C)** at few places over East Madhya Pradesh and Lakshadweep; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Odisha, Bihar, Gujarat Region and Rayalaseema. **above normal(1.6°C to 3.0°C)** at many places over Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam; at few places over Konkan & Goa, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; at isolated places over Gangetic West Bengal, East Uttar Pradesh and West Rajasthan. **near normal(-1.5°C to 1.5°C)** at many places over Uttarakhand, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad and Telangana; at most places over Arunachal Pradesh, Jharkhand, Punjab, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Coastal Karnataka, North Interior Karnataka and South Interior Karnataka; at few places over Haryana-Chandigarh-Delhi and East Rajasthan. **The lowest minimum temperature** of 18.0°C was reported at KHARGONE-OBS (MADHYA PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 11-07-2025): markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya and Coastal Andhra Pradesh & Yanam. **appreciably above normal(3.1°C to 5.0°C)** at few places over Arunachal Pradesh, Sub Himalayan West Bengal & Sikkim and Rayalaseema; at isolated places over Telangana and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at many places over Nagaland, Manipur, Mizoram & Tripura and North Interior Karnataka; at few places over Odisha, West Uttar Pradesh, Uttarakhand, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Chhattisgarh, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Bihar, East Uttar Pradesh, Himachal Pradesh, East Rajasthan, Gujarat Region, Madhya Maharashtra, Vidarbha and South Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over West Rajasthan; at most places over Punjab and Marathwada; at few places over Jharkhand and Saurashtra & Kutch; at isolated places over Haryana-Chandigarh-Delhi and West Madhya Pradesh. **The highest maximum temperature** of 41.2°C was reported at MADURAI (A) (TAMIL NADU).

**\*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**

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

- The **monsoon trough** at mean sea level now passes through Suratgarh, Churu, Gwalior, Satna, Jamshedpur, Digha and thence southeastwards to northeast Bay of Bengal.
- The **upper air cyclonic circulation** over Punjab now lies over Haryana & neighbourhood and extends upto 3.1 km above mean sea level.
- The **Cyclonic circulation** over north Chhattisgarh and neighbourhood extending upto 5.8 km above mean sea level persists
- The **trough** from southwest Uttar Pradesh to northwest Bay of Bengal across the cyclonic circulation over north Chhattisgarh & neighbourhood, north Odisha between 0.9 & 1.5 km above mean sea level persists.
- The **trough** from northeast Arabian Sea to the cyclonic circulation over north Chhattisgarh & neighbourhood across south Gujarat Region, north Madhya Maharashtra, south Madhya Pradesh at 5.8 km above mean sea level persists.
- The **upper air cyclonic circulation** over northeast Assam persists and now seen at 0.9 km above mean sea level.
- The **Western Disturbance** as a trough in middle & upper tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 75°E to the north of Lat. 30°N.

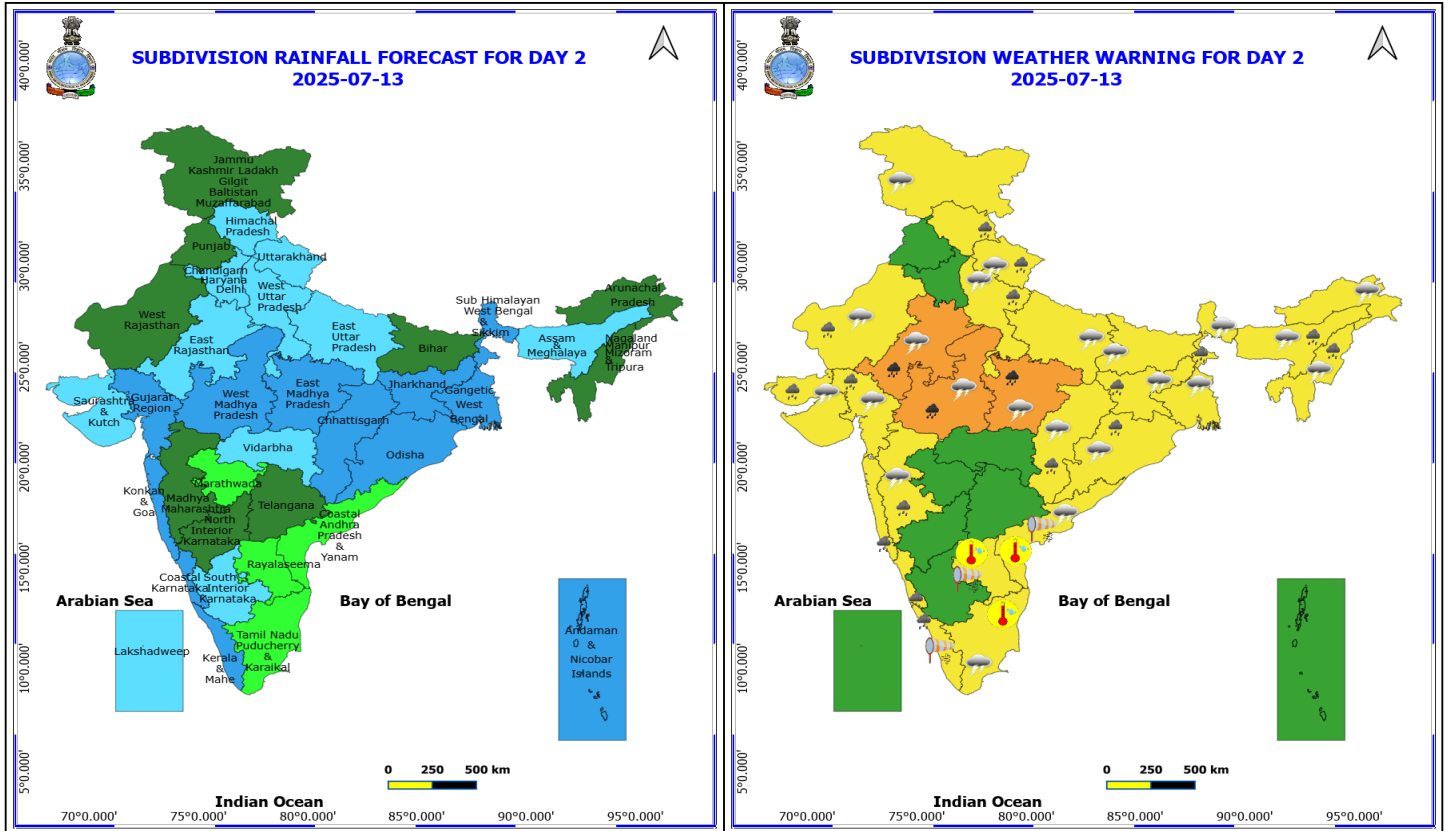
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**13 July (Day 2)**

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

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

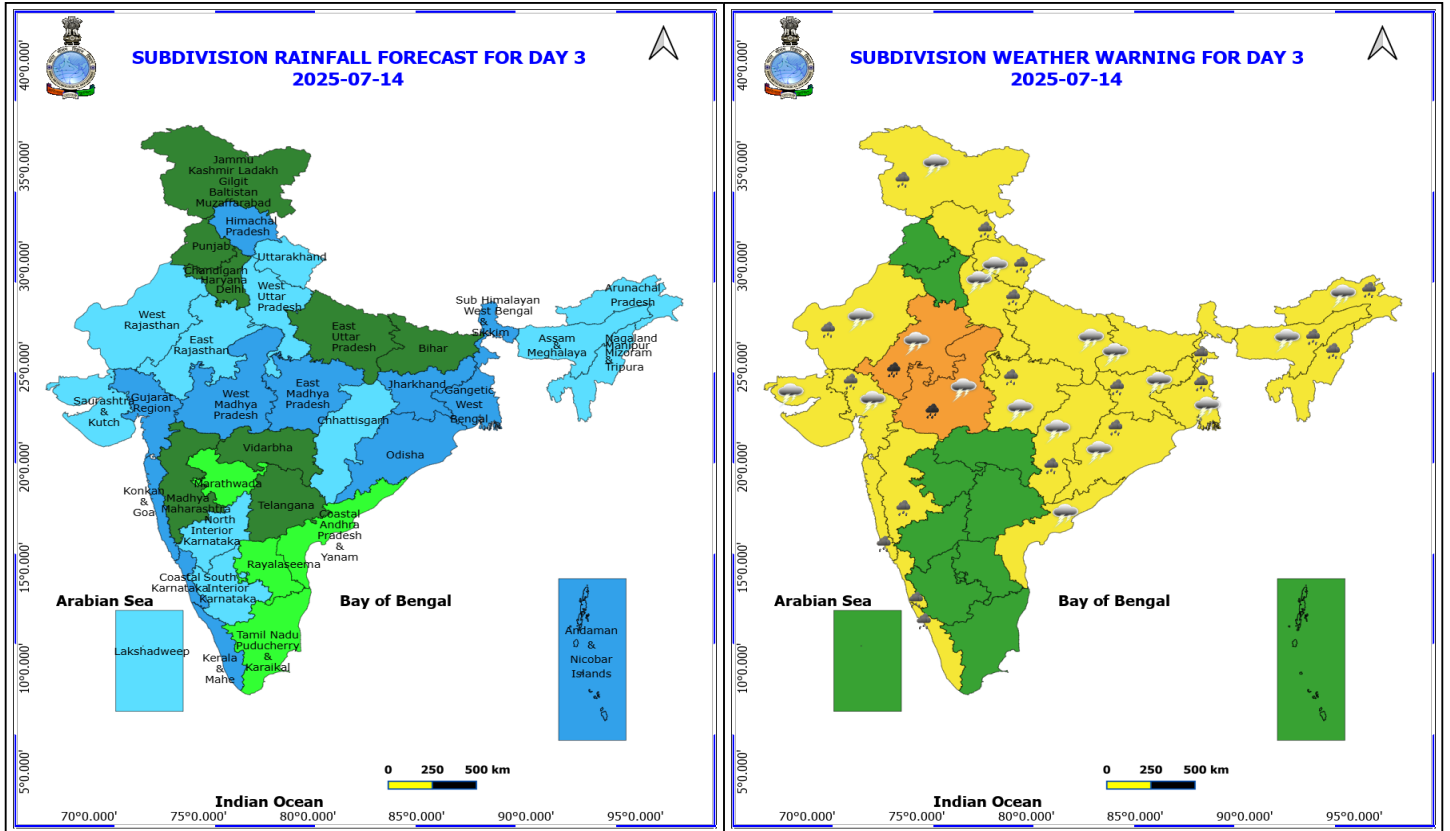
Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over many parts of eastcentral

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Arabian Sea and few southern parts of north Arabian Sea, northern parts of south Arabian Sea, Comorin area, over some parts of westcentral and adjoining parts of southwest Bay of Bengal, some southern parts of south Bay of Bengal.

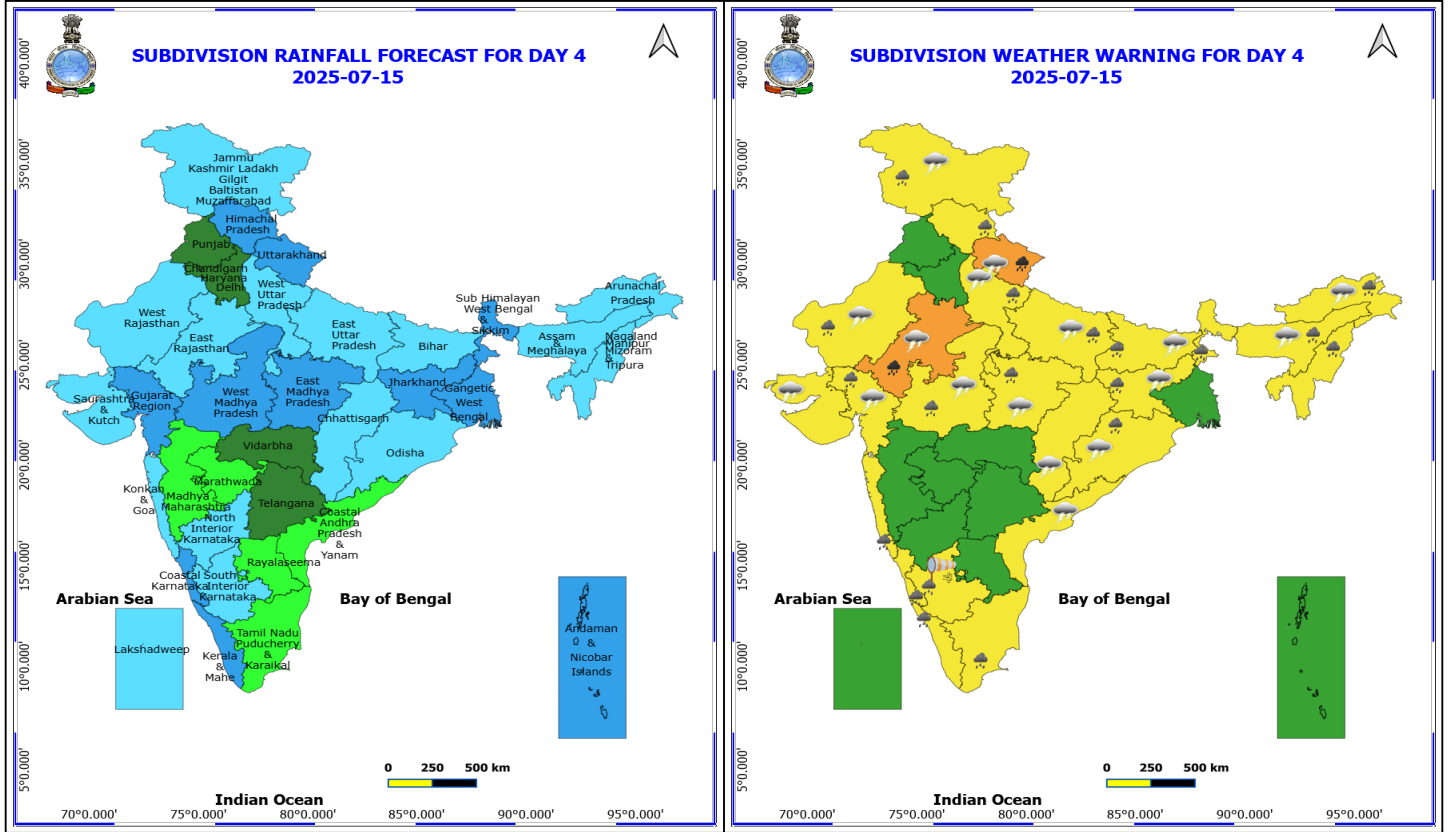


**14 July (Day 3)**

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

Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Oman & adjoining Yemen coasts, most parts of westcentral Arabian Sea & adjoining 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 and few southern parts of north Arabian Sea, along and off Konkan coast, Comorin area, over some parts of westcentral Bay of Bengal, few parts of eastcentral Bay of Bengal, many parts of southwest Bay of Bengal, some southern parts of south Bay of Bengal.



**15 July (Day 4)**

No Warning

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

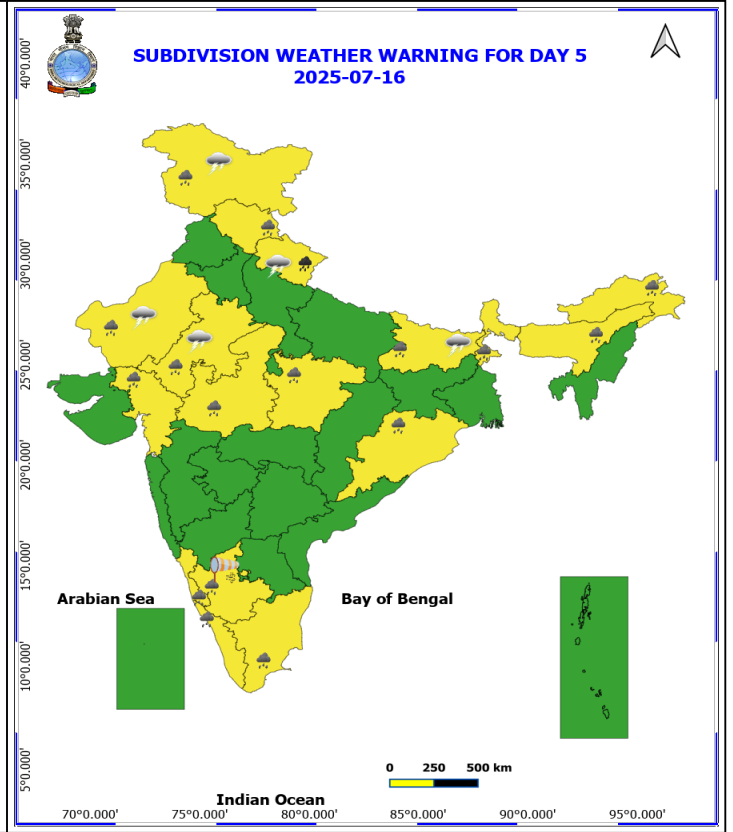
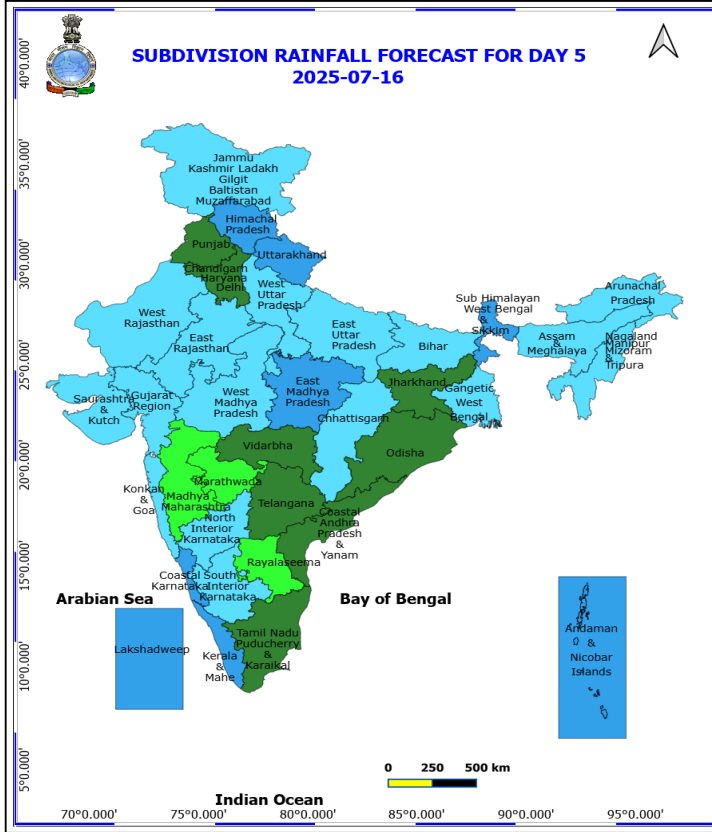
Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over many parts of eastcentral Arabian Sea and few southern parts of north Arabian Sea, along and off Konkan coast, Comorin area, over some parts of westcentral Bay of Bengal, some parts of southwest Bay of Bengal, some southern parts of south Bay of Bengal.

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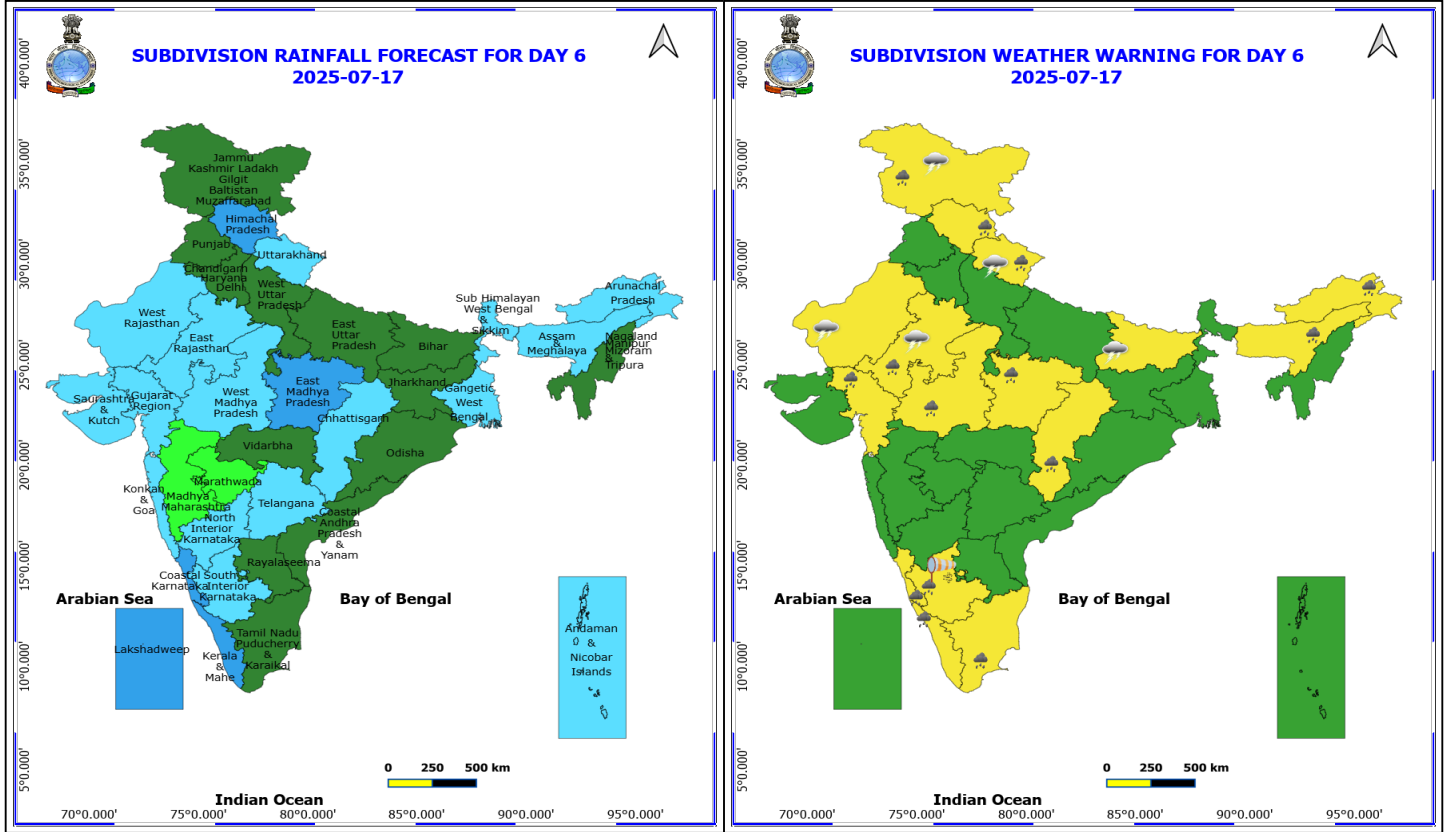
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### 16 July (Day 5)

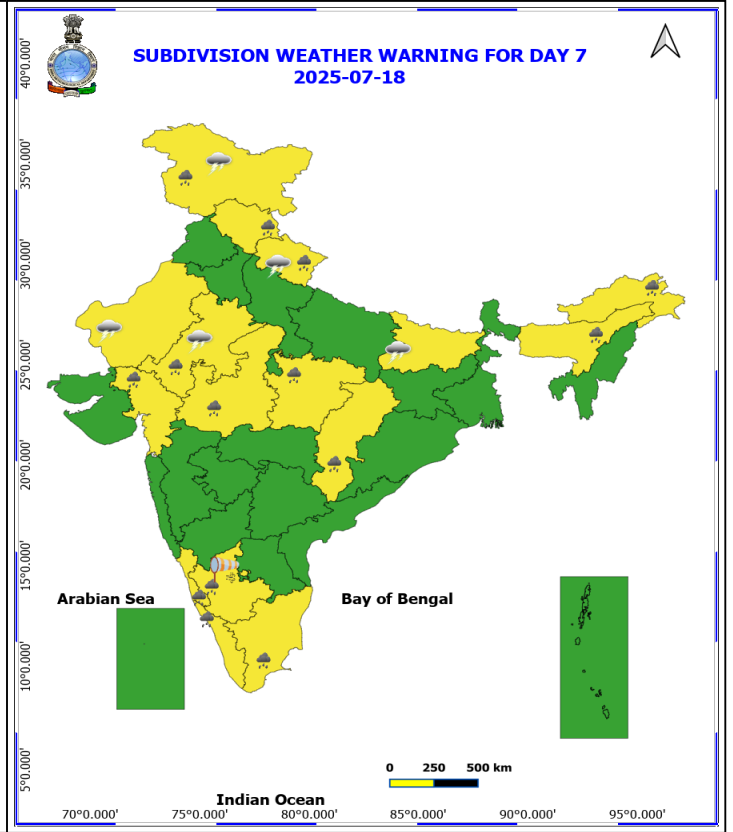
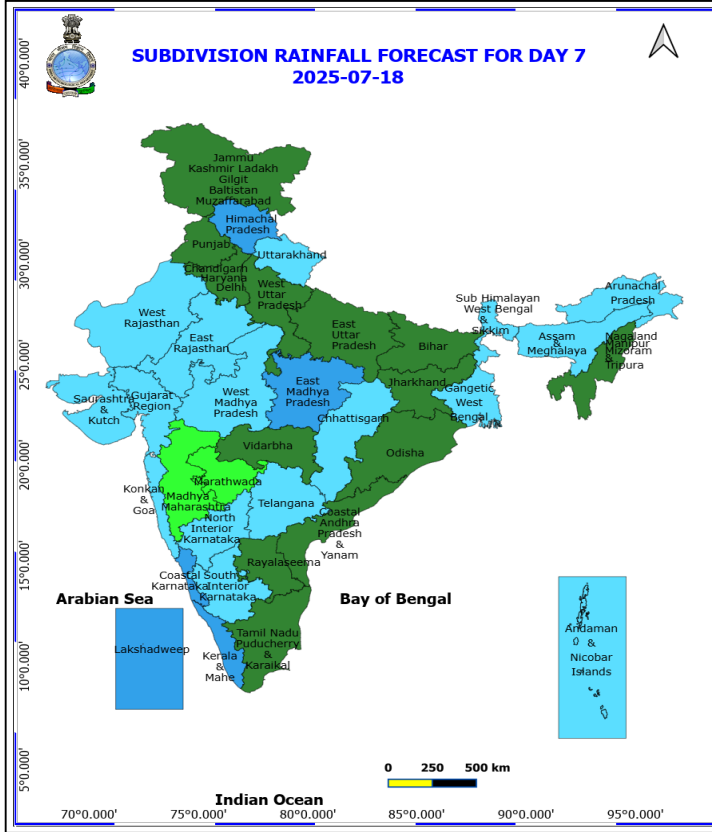
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Uttarakhand.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Coastal Karnataka, Gujarat Region, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffargarh, Kerala & Mahe, Madhya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

**No Fishermen Warning**



**17 July (Day 6)**

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Coastal Karnataka, East Rajasthan, Gujarat Region, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Kerala & Mahe, Madhya Pradesh, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
  - ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Rajasthan.
  - ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over East Rajasthan and Uttarakhand.
  - ❖ **Strong Surface Winds** likely at isolated places over South Interior Karnataka.
- No Fishermen Warning**



**18 July (Day 7)**

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

**No Fishermen Warning**

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## Flash Flood Warnings

### **24hoursOutlookfortheFlashFloodRisk (FFR) till 0530 IST of 13-07-2025 :**

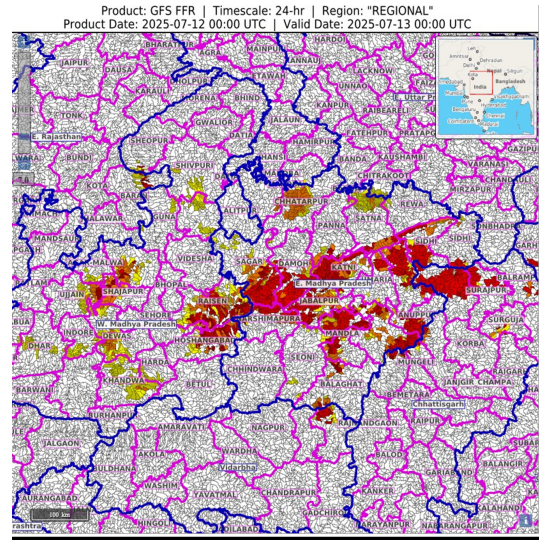
**Low to Moderate flash flood risk** likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

**EastMadhyaPradesh**-Anuppur,Balaghat, Chhindwara, Chhattarpur,Damoh, Dindori, Jabalpur, Katni, Mandla, Narshimapura, Sagar, Satna, Seoni, Shahdol, Sidhi and Umari districts.

**West Madhya Pradesh** - Agar-Malwa, Ashoknagar, Betul, Bhopal, Dewas,Guna, Raisen, Rajgarh, Sehore, Sheopur, Shivpuri, Ujjain, Videsha, Mandsaur, Nimach and Hoshangabad districts.

**Chhattisgarh** – Surajpur, Balrampur and Mungelidistricts

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	12- Jul	13- Jul	14- Jul	15- Jul	16- Jul	17- Jul	18- Jul
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	WS	WS	FWS	FWS
2	ARUNACHAL PRADESH	SCT	SCT	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEHGHALAYA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
4	N. M. M. & T.	SCT	SCT	FWS	FWS	FWS	SCT	SCT
5	S.H. WEST BENGAL & SIKKIM	FWS	WS	WS	WS	WS	FWS	FWS
6	GANGETIC WEST BENGAL	FWS	WS	WS	WS	FWS	FWS	FWS
7	ODISHA	FWS	WS	WS	FWS	SCT	SCT	SCT
8	JHARKHAND	FWS	WS	WS	WS	SCT	SCT	SCT
9	BIHAR	ISOL	SCT	SCT	FWS	FWS	SCT	SCT
10	EAST UTTAR PRADESH	FWS	FWS	SCT	FWS	FWS	SCT	SCT
11	WEST UTTAR PRADESH	SCT	FWS	FWS	FWS	FWS	SCT	SCT
12	UTTARAKHAND	FWS	FWS	FWS	WS	WS	FWS	FWS
13	HARYANA, CHD & DELHI	SCT	FWS	SCT	SCT	SCT	SCT	SCT
14	PUNJAB	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
15	HIMACHAL PRADESH	SCT	FWS	WS	WS	WS	WS	WS
16	JAMMU AND KASHMIR AND LADAKH	SCT	SCT	SCT	FWS	FWS	SCT	SCT
17	WEST RAJASTHAN	SCT	SCT	FWS	FWS	FWS	FWS	FWS
18	EAST RAJASTHAN	FWS	FWS	FWS	FWS	FWS	FWS	FWS
19	WEST MADHYA PRADESH	WS	WS	WS	WS	FWS	FWS	FWS
20	EAST MADHYA PRADESH	WS	WS	WS	WS	WS	WS	WS
21	GUJRAT REGION	FWS	WS	WS	WS	FWS	FWS	FWS
22	SAURASHTRA & KUTCH	SCT	FWS	FWS	FWS	FWS	FWS	FWS
23	KONKAN & GOA	WS	WS	WS	FWS	FWS	FWS	FWS
24	MADHYA MAHARASHTRA	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
27	CHATTISGARH	WS	WS	FWS	FWS	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
29	TELANGANA	SCT	SCT	SCT	SCT	SCT	FWS	FWS
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
32	COSTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
35	KERALA	WS	WS	WS	WS	WS	WS	WS
36	LAKSHDWEEP	FWS	FWS	FWS	FWS	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 2025-07-12

Fig. 2: Departure of Maximum Temp. Dated 2025-07-12

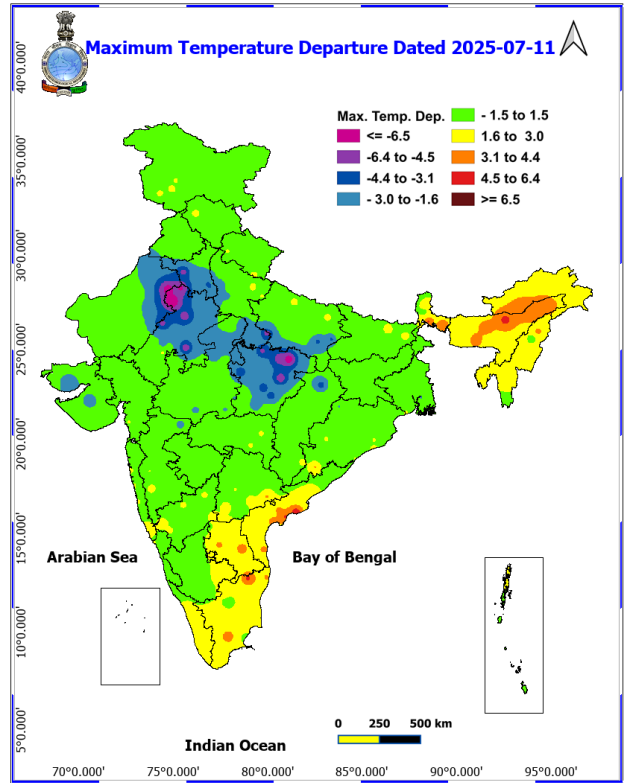
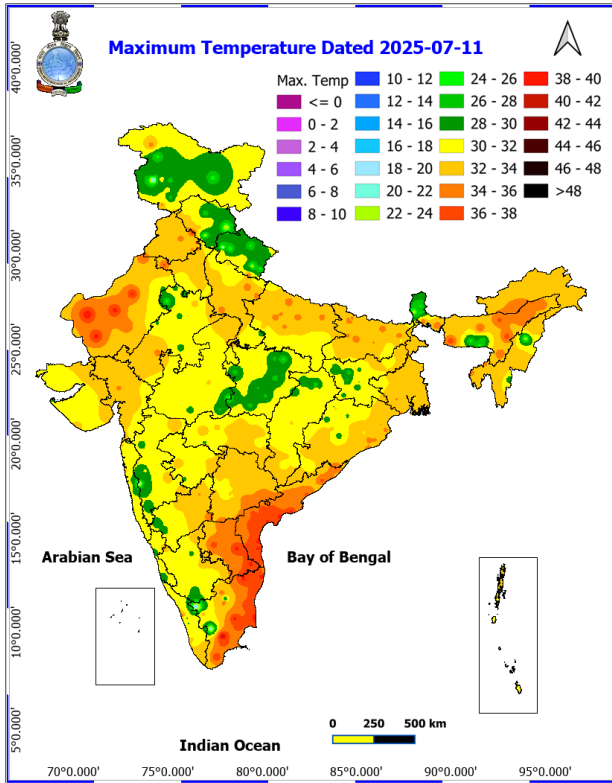
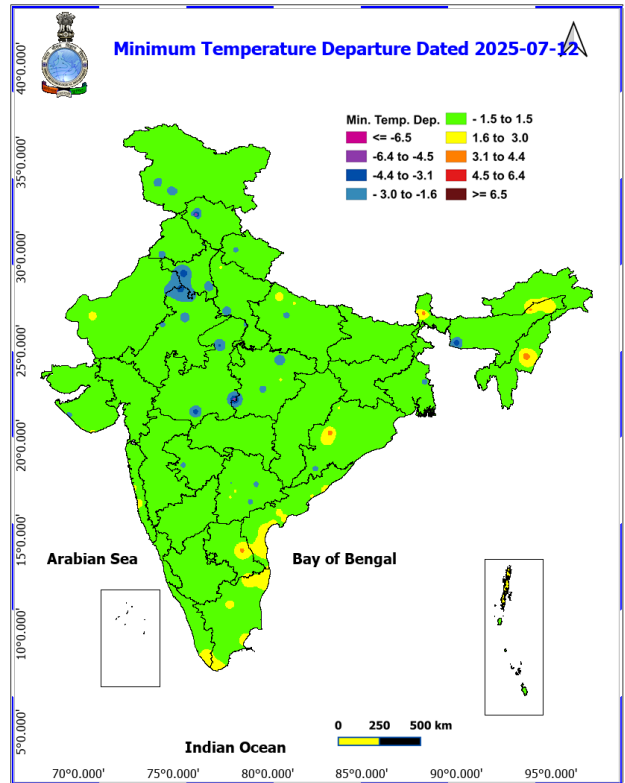
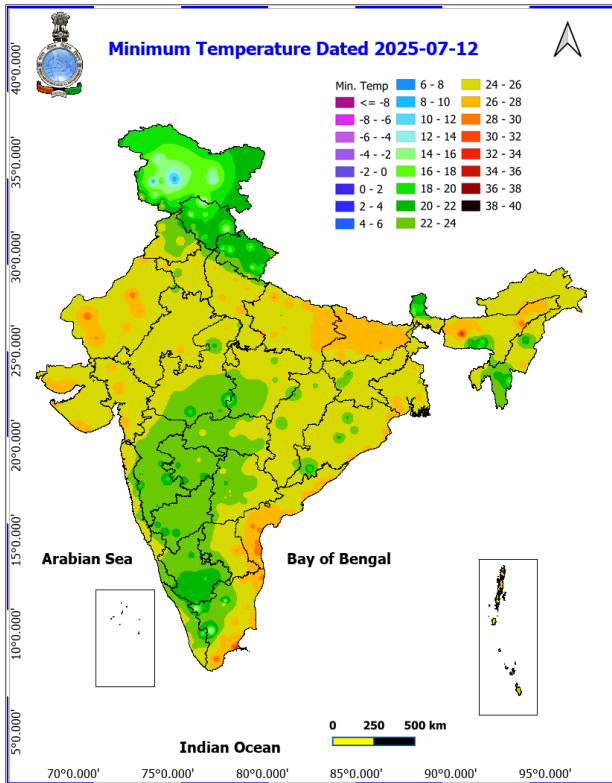
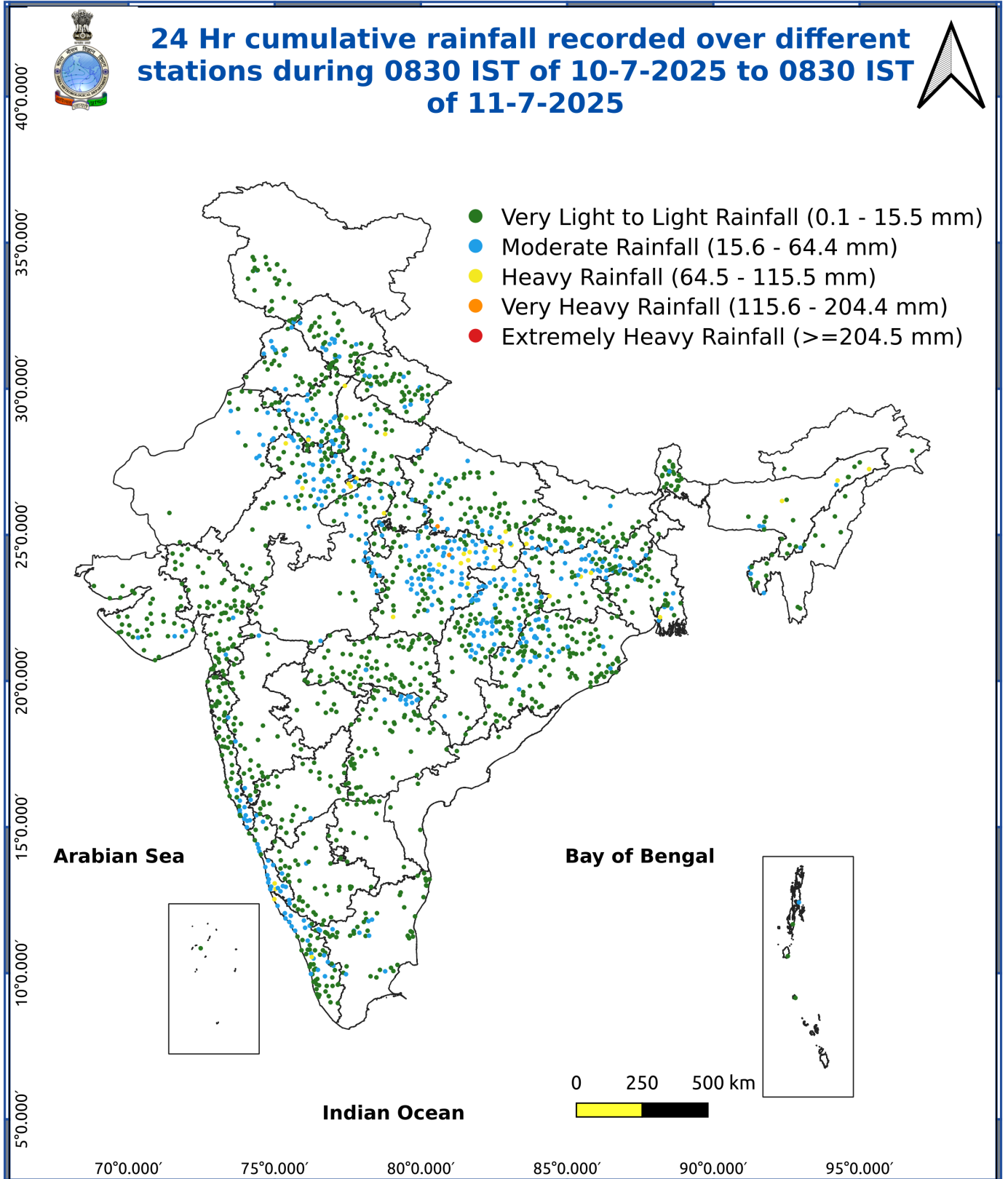


Fig. 3: Minimum Temperatures Dated 2025-07-12

Fig. 4: Departure of Minimum Temp. Dated 2025-07-12





**Very heavy rainfall** over ; East Rajasthan during 12th-15th; Madhya Pradesh during 12h-14th; Uttarakhand on 15th & 16th July.

Impact Expected

Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of 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 kutchha 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**

In **Gird Zone of Madhya Pradesh**, postpone sowing of soybean and pearl millet and drain out excess water from already sown fields. In **Satpura Plateau zone**, make arrangements for proper drainage in the fields of maize, soybean and vegetables. Protect vegetable nursery with green net or any other medium. In **Kymore Plateau and Satpura Hill Zone**, drain out excess water from vegetables.

In **Chhattisgarh**, ensure proper drainage in rice nurseries and fields of rice, maize, pigeon pea, minor millets and vegetables. In **Plain Zone**, postpone line sowing / transplanting of rice and sowing of pigeon pea, maize and soybean.

In **Sub Tropical Zone of Jammu & Kashmir**, drain out excess rain water from fields of maize and transplanted rice to avoid water stagnation. In **Intermediate Zone**, provide drainage in maize fields. Provide mechanical support to cucurbits and tomato plants to prevent lodging. Postpone sowing of *kharif* pulses till cessation of heavy rains.

In **Mid Hills Sub Humid Zone of Himachal Pradesh**, provide support to the cucumber vines and maintain proper drainage in vegetable and maize fields. In **Sub Montane and Low Hills Sub Tropical Zone**, ensure proper drainage in maize fields to avoid water logging.

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 **Undulating Plain Zone of Punjab**, maintain proper drainage in the fields of rice, sugarcane, kharif maize and green gram.

In **Eastern Zone of Haryana**, maintain proper drainage in rice fields.

In **South Western Semi-Arid Zone of West Uttar Pradesh**, make proper arrangement to drain out excess water from the fields of paddy, spring sugarcane, pigeon pea, maize and vegetables.

In **Southeastern Humid Plain Zone of East Rajasthan**, make provision to drain out excess water from rice nurseries and fields of maize, soybean and black gram. In **Flood Prone Eastern Plain Zone**, postpone sowing / re- sowing of sesame, green gram and pearl millet during heavy rains.

In **Konkan**, make arrangement to drain out excess water from rice and finger millet nurseries, groundnut, vegetables

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and orchards. In **Vidarbha**, make arrangements to drain out excess water *kharif* crops, vegetable nurseries and orchards.

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 **Tripura**, maintain good drainage in the fields of *Aus* rice and maize.

### **Livestock / Fishery**

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

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

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

### **Livestock / Fishery**

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

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

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

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ 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 मराठावाडा
- 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

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  $4.5^{\circ}\text{C}$  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)

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