

2025-07-16

Time of Issue: 08:30:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings

##### Northwest India:

- Isolated **heavy rainfall** likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Uttar Pradesh during 16<sup>th</sup>-21<sup>st</sup>; Punjab on 16<sup>th</sup> & 17<sup>th</sup> and 21<sup>st</sup>; Haryana on 17<sup>th</sup> & 21<sup>st</sup>; West Uttar Pradesh during 16<sup>th</sup>-21<sup>st</sup>; Rajasthan on 16<sup>th</sup> & 17<sup>th</sup> July with **very heavy rainfall over Jammu & Kashmir, East Rajasthan on 16<sup>th</sup>; Uttarakhand on 17<sup>th</sup>, 20<sup>th</sup> & 21<sup>st</sup>; East Uttar Pradesh on 16<sup>th</sup> & 17<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 16<sup>th</sup>-19<sup>th</sup>, Chhattisgarh, Bihar, Jharkhand on 16<sup>th</sup> & 17<sup>th</sup> July, Andaman & Nicobar Islands on 16<sup>th</sup>; Odisha, Sub-Himalayan West Bengal & Sikkim on 16<sup>th</sup> and during 19<sup>th</sup>-21<sup>st</sup>; **with very heavy rainfall over West Madhya Pradesh on 18<sup>th</sup>, East Madhya Pradesh on 16<sup>th</sup> & 17<sup>th</sup>, Bihar and Jharkhand, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh 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, Ghat areas of Madhya Maharashtra on 20<sup>th</sup> & 21<sup>st</sup>;
- Goa on 16<sup>th</sup> & 19<sup>th</sup>;
- Light/moderate rainfall at many/some places very likely over the region during next 5 days.

##### Northeast India:

- Light/moderate rainfall at many places accompanied with **thunderstorm, lightning** likely to continue over Northeast India during next 7 days.
- Isolated **heavy rainfall** very likely over Assam & Meghalaya, Arunachal Pradesh, Mizoram & Tripura on 16<sup>th</sup> and during 19<sup>th</sup>-21<sup>st</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>-21<sup>st</sup>; isolated **heavy rainfall** over North Interior Karnataka on 16<sup>th</sup>; Lakshadweep on 19<sup>th</sup>&20<sup>th</sup>; Coastal Andhra Pradesh & Yanam during 17<sup>th</sup>-21<sup>st</sup>; Rayalaseema during 17<sup>th</sup>-19<sup>th</sup> and Telangana on 17<sup>th</sup> & 18<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.

##### Hot & Humid weather Warnings:

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

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#### Main Weather Observations:

- ♦ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Konkan & Goa, Coastal Karnataka, Kerala & Mahe, Andaman & Nicobar Islands; **at many places** over Sub-Himalayan West Bengal & Sikkim, Bihar, Gangetic West Bengal, Jharkhand, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at a few places** over Himachal Pradesh, Madhya Pradesh, Madhya Maharashtra, East Uttar Pradesh, Rajasthan, Chhattisgarh, Vidarbha, Marathwada, North Interior Karnataka; **at isolated places** over West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, Gujarat state, South Interior Karnataka, Assam & Meghalaya.
- ♦ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): **West Rajasthan**: Shri Ganganagar 11; **Konkan & Goa**: Matheran 7, Santacruz 5, Alibagh 4, TBIA 3; **Madhya Maharashtra**: Mahabaleshwar 6; **West Madhya Pradesh**: Gwalior 6, Khargone 4, Siddhi 3; **Gujarat Region**: Mahisagar 5, Banaskantha 2; **Vidarbha**: Nagpur 3; **Jharkhand**: Daltonganj 3; **Bihar**: Dehri 2 Patna 2; **Odisha**: Jagatsinghpur 3; **Sub-Himalayan West Bengal & Sikkim**: Bagdogra 2.
- ♦ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rain** at isolated places over West Rajasthan, Konkan & Goa.
- ♦ **Minimum Temperature Departures (as on 15-07-2025)**: **markedly above normal (>5.1°C)** at isolated places over Assam & Meghalaya, West Madhya Pradesh and Saurashtra & Kutch. **appreciably above normal (3.1°C to 5.0°C)** at few places over East Madhya Pradesh and Gujarat Region; at isolated places over Sub Himalayan West Bengal & Sikkim, Odisha and Coastal Andhra Pradesh & Yanam. **above normal (1.6°C to 3.0°C)** at few places over Vidarbha, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal and Lakshadweep; at isolated places over Andaman & Nicobar Islands, Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra, Telangana, Rayalaseema and South Interior Karnataka. **near normal (-1.5°C to 1.5°C)** at many places over Gangetic West Bengal, Jharkhand, East Uttar Pradesh, West Uttar Pradesh and Kerala & Mahe; at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Punjab, Himachal Pradesh, Konkan & Goa, Marathwada, Coastal Karnataka and North Interior Karnataka; at few places over Haryana-Chandigarh-Delhi, West Rajasthan and East Rajasthan. **The lowest minimum temperature** of 18.4°C was reported at KHARGONE-OBS (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 Coastal Andhra Pradesh & Yanam. **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Vidarbha, Chhattisgarh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal. **above normal (1.6°C to 3.0°C)** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Gujarat state, Rayalaseema. **near normal (-1.5°C to 1.5°C)** at many places over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Bihar, Odisha, Telangana, Kerala & Mahe; at most places over East Uttar Pradesh; at few places over Konkan & Goa, Madhya Maharashtra, Marathwada, Andaman & Nicobar Islands; at isolated places over Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Konkan & Goa, Lakshadweep, Interior Karnataka, Himachal Pradesh, Uttarakhand. **The highest maximum temperature** of 40.6°C was reported at Madurai (Tamil Nadu).

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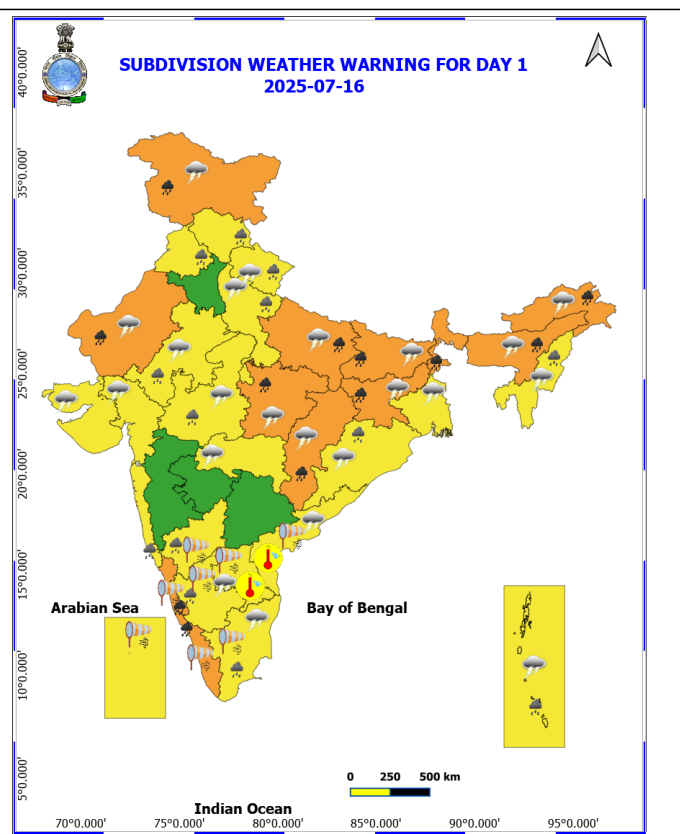
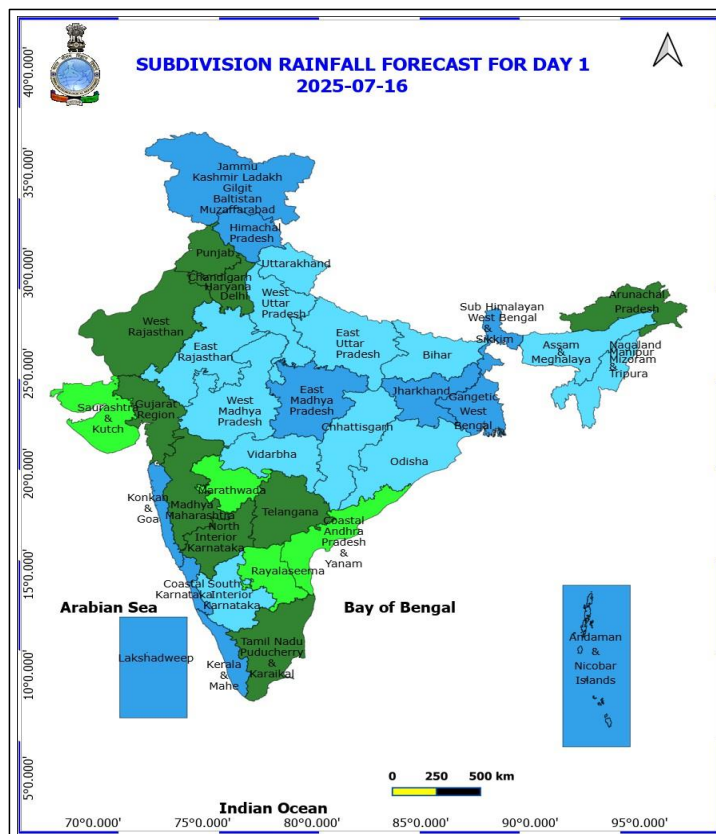
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Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Depression** over northwest Rajasthan moved slowly north-northwestwards and weakened into a **Well Marked Low Pressure** area over the same region at 0530 hrs IST of today, the 16th July, 2025. It is likely to continue to move slowly north-northwestwards across northwest Rajasthan and weaken into a low pressure area during next 12 hours.
- ❖ The **Well Marked Low Pressure** area over south Bihar and adjoining Jharkhand moved west-northwestwards and lay over southwest Bihar and adjoining east Uttar Pradesh at 0530 hrs IST of today, the 16th July 2025. 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, Hamirpur, center of **well marked low Pressure area** over southwest Bihar and adjoining east Uttar Pradesh, Contai and thence east-northeastwards of northeast Bay of Bengal.
- ❖ The **Western Disturbance** as a trough in middle tropospheric levels with its axis at 5.8 km above mean sea level roughly along Long. 68°E to the north of Lat. 28°N persists.

Weather Outlook for subsequent 3 days

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



## 16 July (Day 1)

❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Bihar, Coastal Karnataka, East Madhya Pradesh, West Rajasthan, East Uttar Pradesh, Jharkhand, Bihar, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Chhattisgarh, Assam & Meghalaya, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand and Kerala & Mahe.

❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Chhattisgarh, Himachal Pradesh, Interior Karnataka, Konkan & Goa, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Sub Himalayan West Bengal & Sikkim, Tamil Nadu Puducherry & Karaikal, Uttarakhand, West Madhya Pradesh, East Rajasthan and West Uttar Pradesh.

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

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

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

❖ **Hot and Humid weather** very likely at isolated places over Andhra Pradesh.

- Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.
- Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over most parts of

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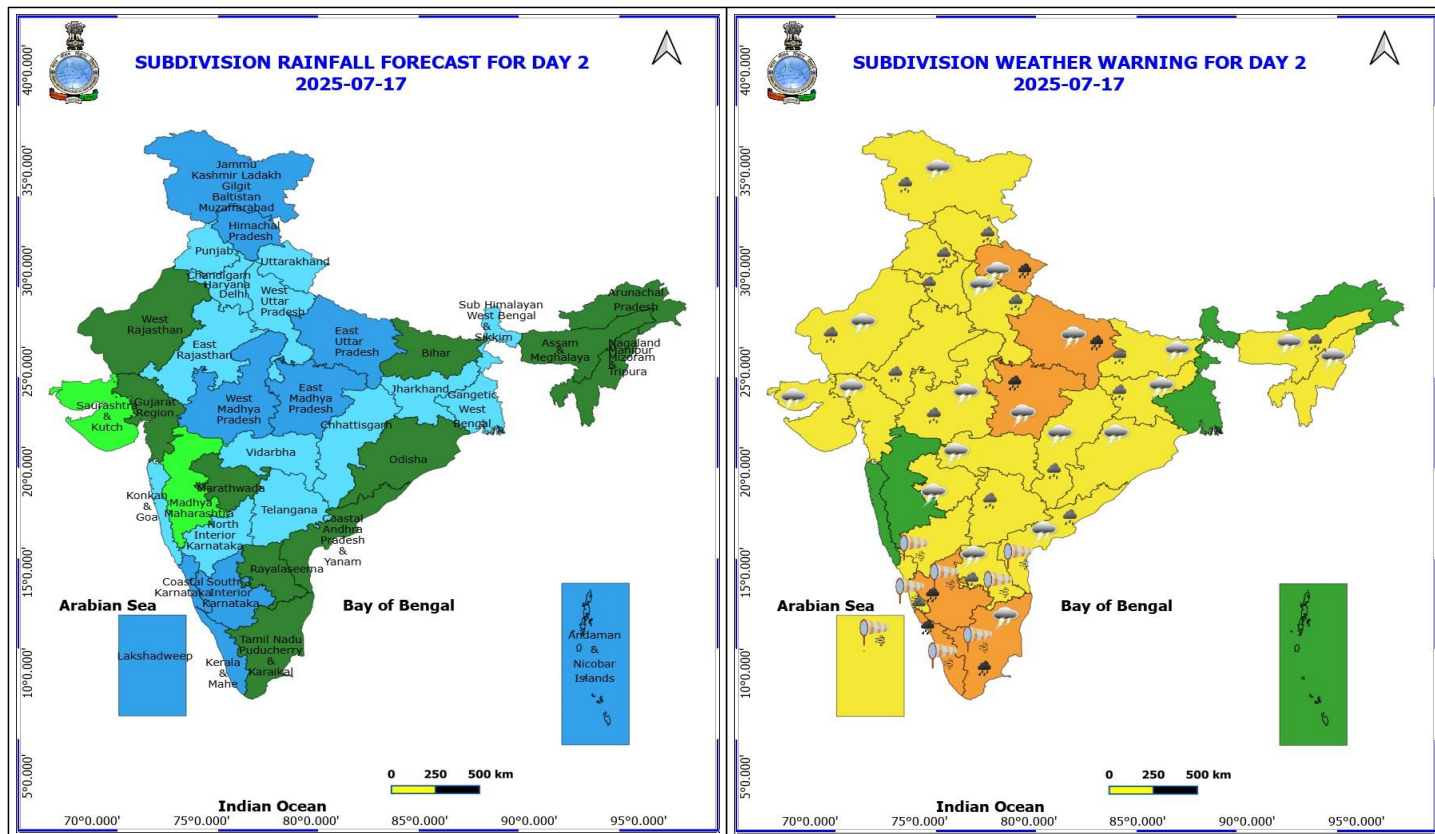
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eastcentral Arabian Sea & adjoining westcentral, southeast Arabian Sea, along and off Konkan & Goa, Karnataka, Kerala coasts, over Lakshadweep area, Gulf of Mannar, Comorin area, over some parts of southwest & few parts of westcentral Bay of Bengal,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





## 17 July (Day 2)

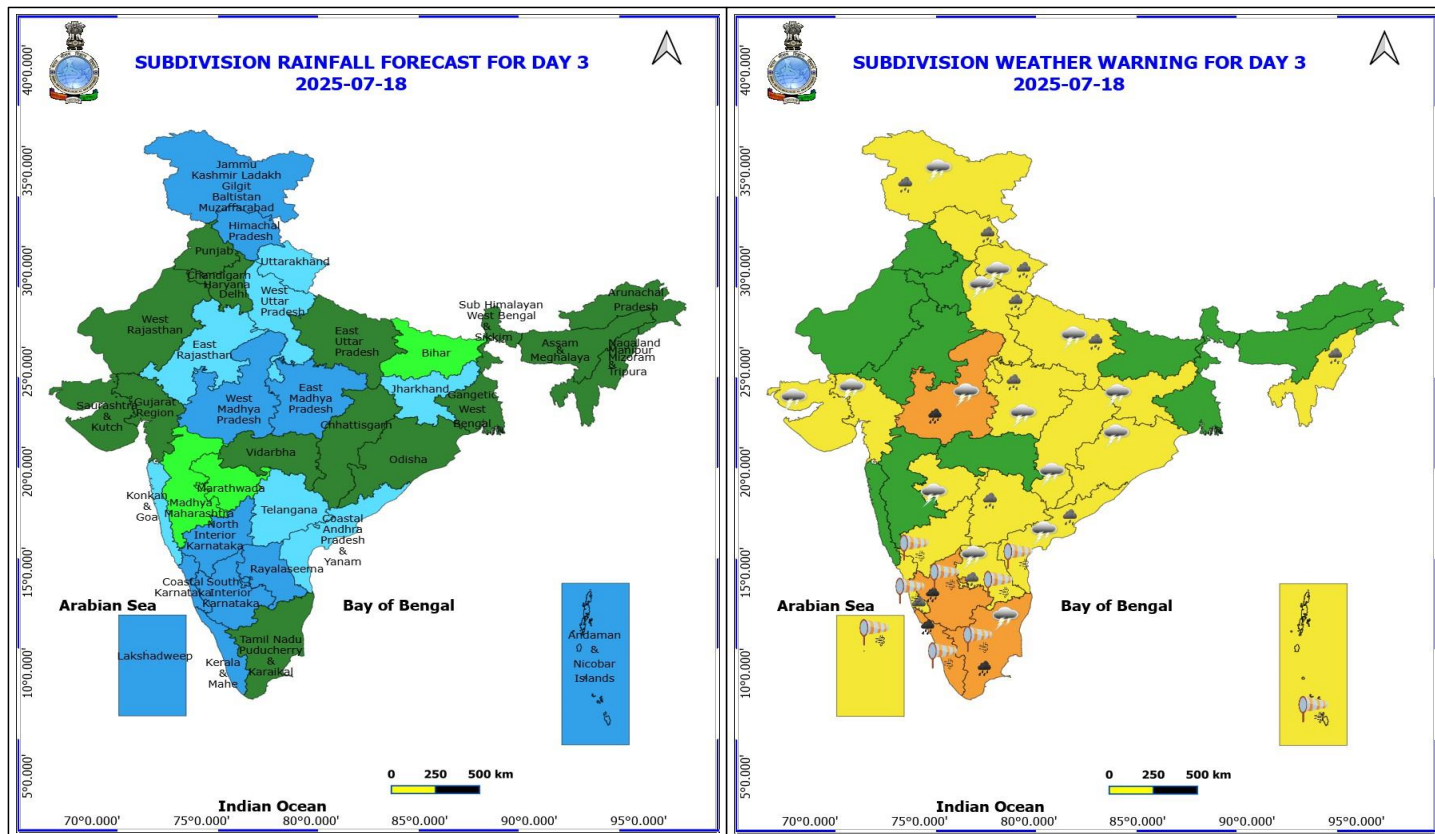
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over East Madhya Pradesh, East Uttar Pradesh, Kerala & Mahe, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal and Uttarakhand.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Bihar, Chhattisgarh, Coastal Karnataka, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Punjab, Rajasthan, Telangana, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Odisha.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, Gujarat State, Jharkhand, Madhya Pradesh, Marathwada, Nagaland, Manipur, Mizoram and Tripura, Tamil Nadu Puducherry & Karaikal, Uttar Pradesh, Uttarakhand, Vidarbha and West Rajasthan.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh, Karnataka, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.
- Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over many parts of eastcentral Arabian Sea, adjoining and some parts of westcentral Arabian Sea, & adjoining, northern parts of south Arabian Sea, along and off Kerala, Karnataka coasts, over Lakshadweep area, Comorin area, most 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)

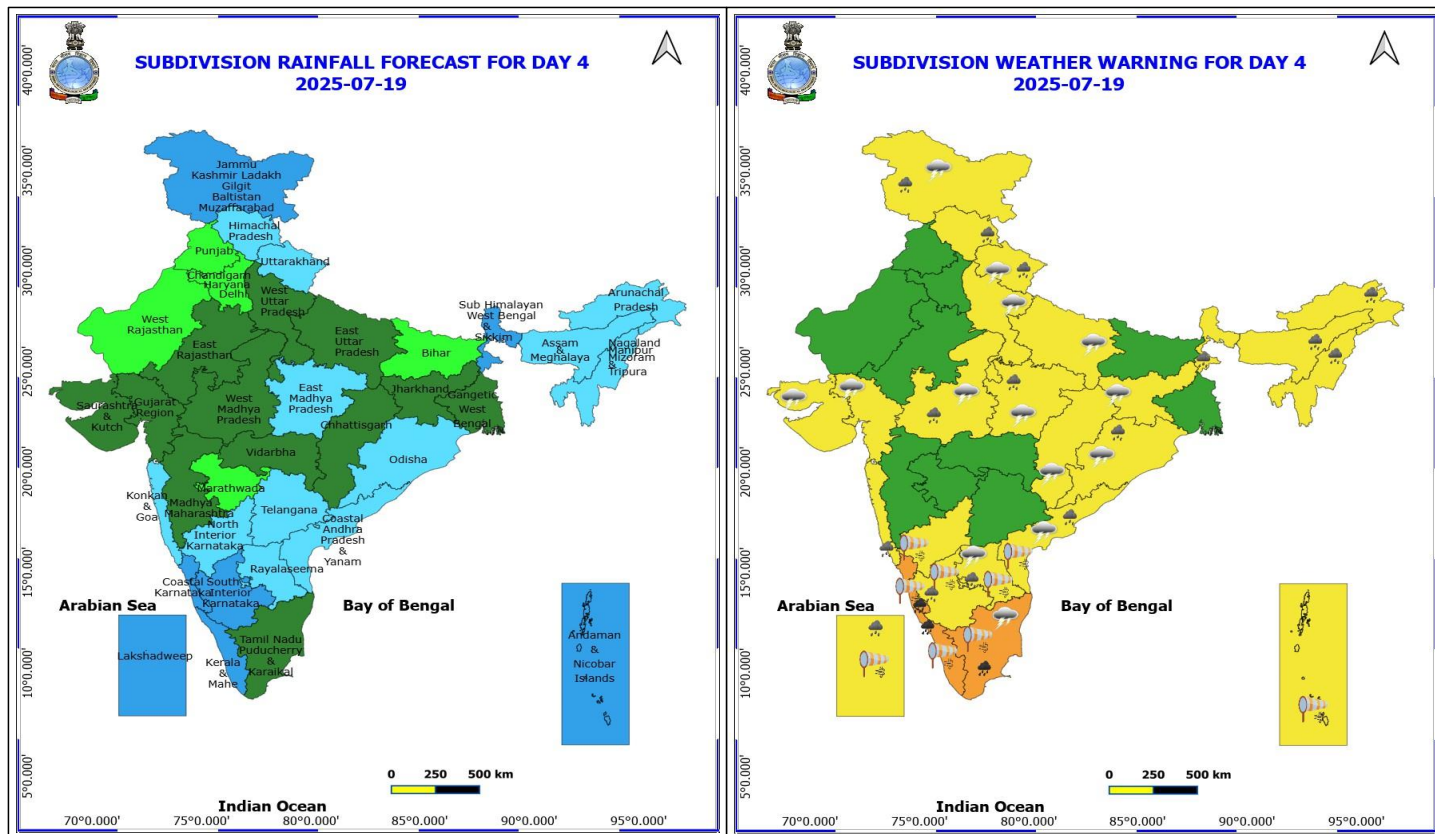
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Kerala & Mahe, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal and West Madhya Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Coastal Karnataka, East Madhya Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Telangana, Uttar Pradesh and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** 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, Chhattisgarh, Gujarat State, Jharkhand, Madhya Pradesh, Marathwada, Tamil Nadu Puducherry & Karaikal and Uttar Pradesh.
- ❖ **Strong Surface Winds** very likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Karnataka, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.
- Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over 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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## 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, Konkan & Goa, Lakshadweep, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Chhattisgarh, Gujarat State, Jharkhand, Madhya Pradesh, Tamil Nadu Puducherry & Karaikal and Uttar Pradesh.
- ❖ **Strong Surface Winds** likely at isolated places over Andaman & Nicobar Islands, Andhra Pradesh, Karnataka, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- Squally wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off Somalia, Yemen & Oman coasts, most parts of westcentral Arabian Sea & adjoining, some parts of eastcentral Arabian Sea, northern parts of southwest Arabian Sea.
- Squally weather with wind speed 40 - 50 kmph gusting to 60 kmph likely to prevail over 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.

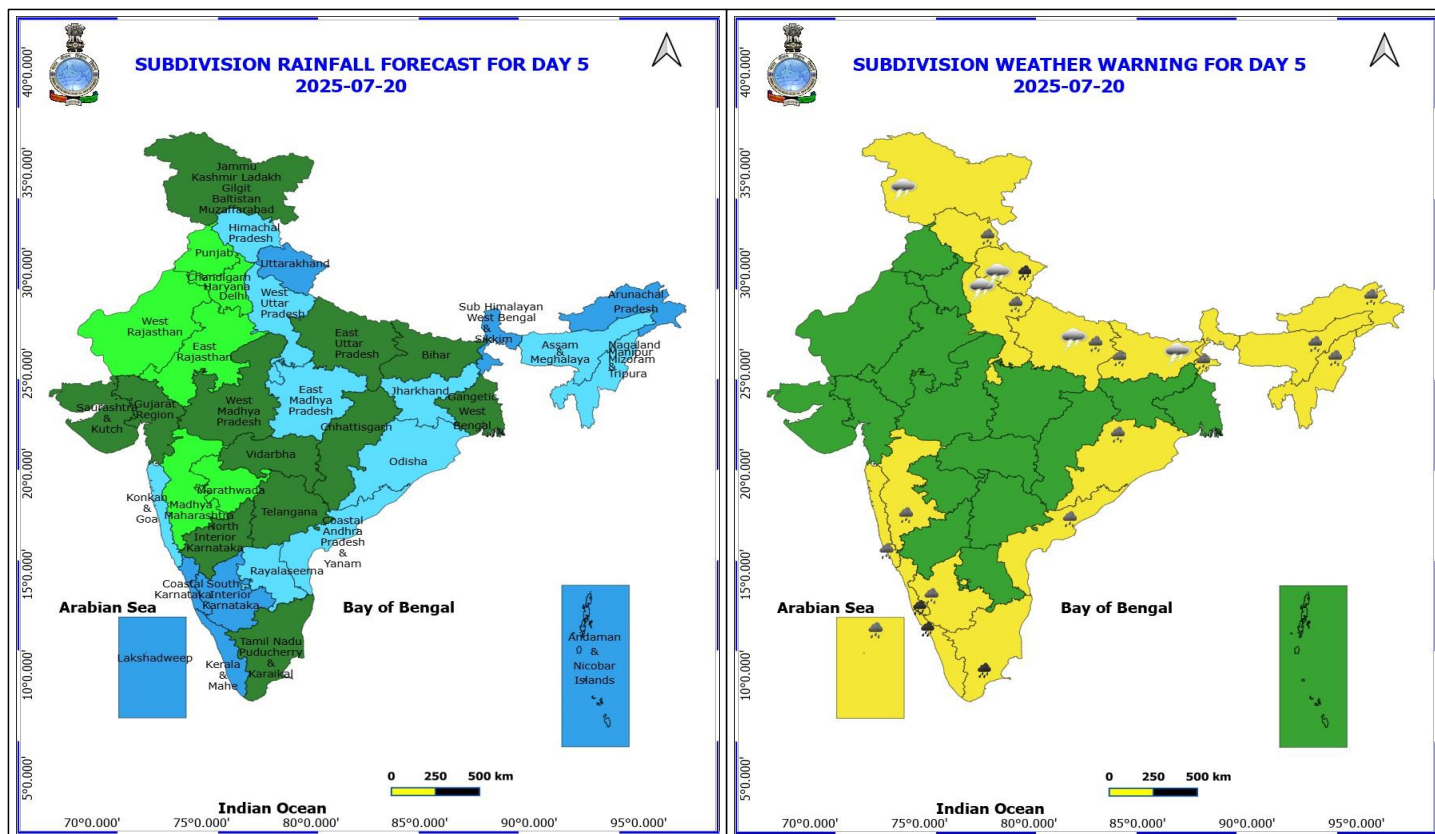
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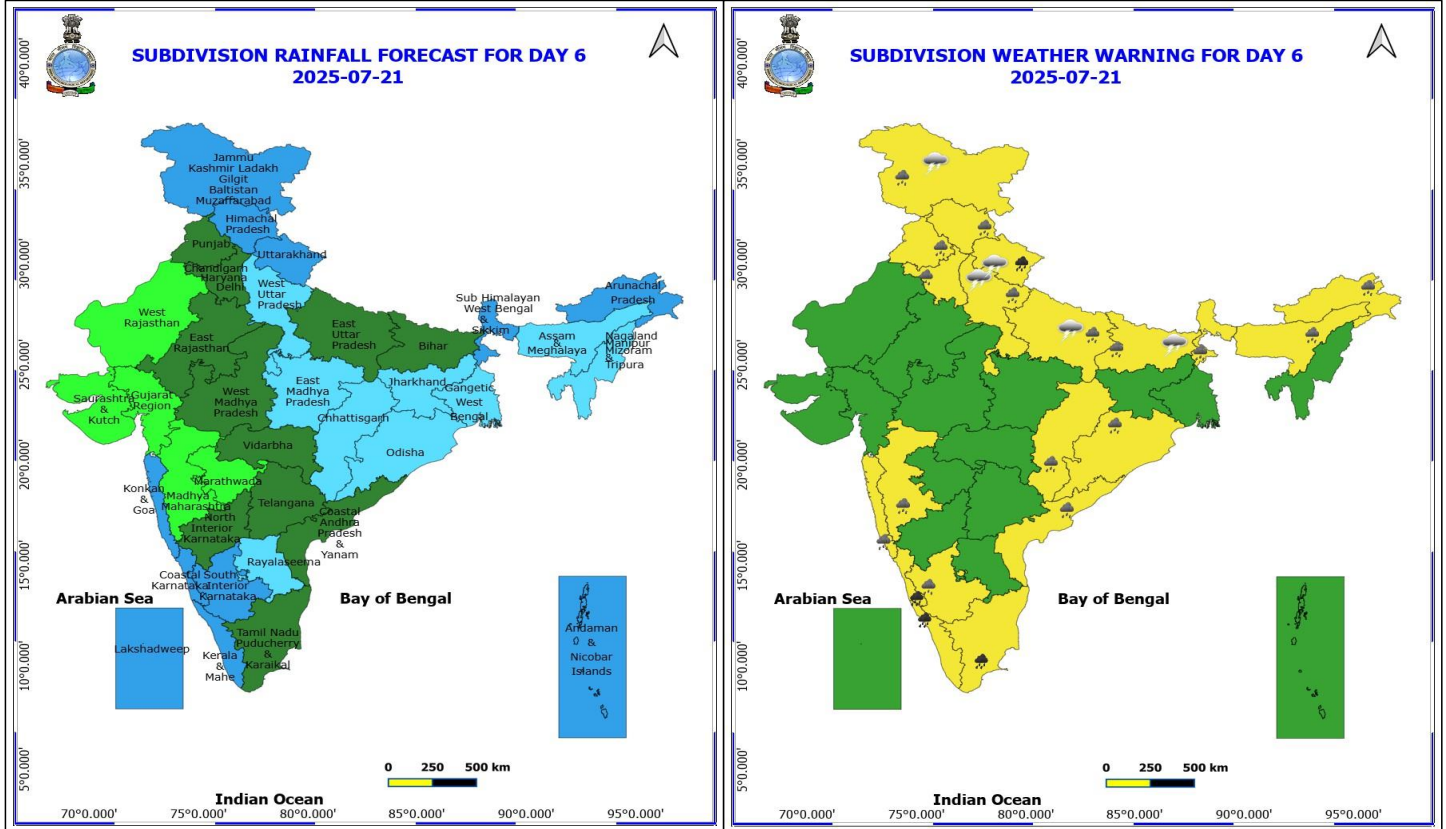




## 20 July (Day 5)

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

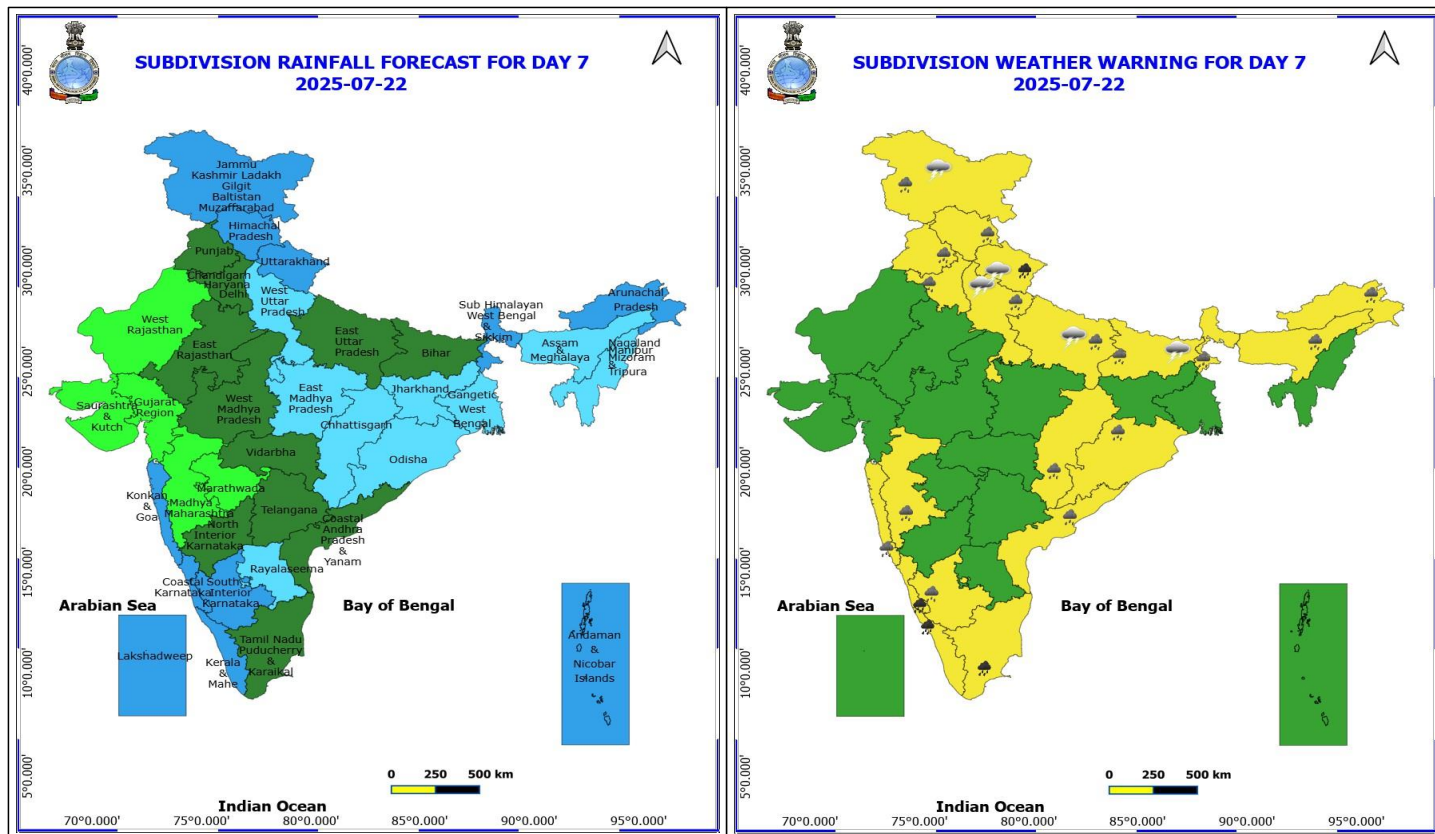
**No Fishermen Warning**



## 21 July (Day 6)

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

**No Fishermen Warning**



## 22 July (Day 7)

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

**No Fishermen Warning**



## Flash Flood Warnings

### 24 hours Outlook for the Flash Flood Risk (FFR) till 0530 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.

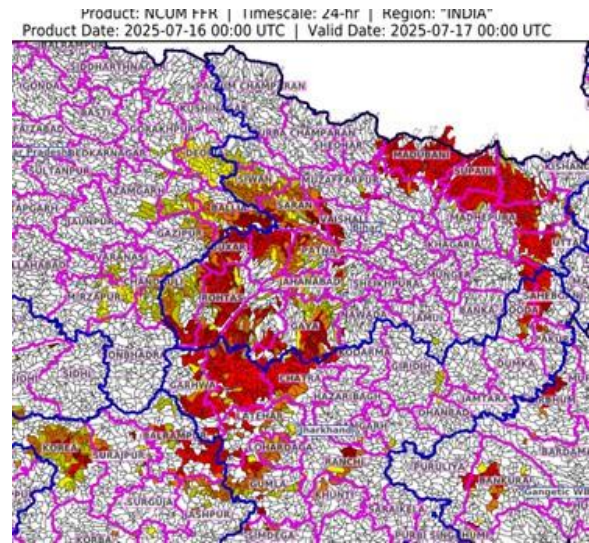
**Jharkhand** – Gumla, Simdega, Lohardaga, Latehar, Chhatra, Khunti, Hazaribagh, Guda, Pakur, Sahebganj, Ramgarh, Dhanbad, Garhwa, Palamu, Kodarma, Giridih and Ranchi districts.

**Bihar** – Katihar, Bhagalpur, Purnia, Madhepura, Supaul, Araria, Madhubani, Darbhanga, Samastipur, Muzaffarpur, Gopalganj, Siwan, Saran, Vaishali, Patna, Bhojpur, Buxar, Nalanda, Jahanabad, Arwal, Nawada, Gaya, Aurangabad, Rohtas and Bhabua districts.

**North Chhattisgarh** – Surguja, Surajpur, Jashpur, Raigarh, Korea, Korba and Balrampur districts.

**Adjoining East Uttar Pradesh** – Deoria, Gorakhpur, Ballia, Mau, Azamgarh, Gazipur, Varanasi, Chandauli and Mirzapur 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	WS	WS
2	ARUNACHAL PRADESH	SCT	SCT	SCT	FWS	WS	WS	WS
3	ASSAM & MEHGHALAYA	FWS	SCT	SCT	FWS	FWS	FWS	FWS
4	N. M. M. & T.	FWS	SCT	SCT	FWS	FWS	FWS	FWS
5	S.H. WEST BENGAL & SIKKIM	WS	FWS	SCT	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	WS	FWS	SCT	SCT	SCT	FWS	FWS
7	ODISHA	FWS	SCT	SCT	FWS	FWS	FWS	FWS
8	JHARKHAND	WS	FWS	FWS	SCT	FWS	FWS	FWS
9	BIHAR	FWS	SCT	ISOL	ISOL	SCT	SCT	SCT
10	EAST UTTAR PRADESH	FWS	WS	SCT	SCT	SCT	SCT	SCT
11	WEST UTTAR PRADESH	FWS	FWS	FWS	SCT	FWS	FWS	FWS
12	UTTARAKHAND	FWS	FWS	FWS	FWS	WS	WS	WS
13	HARYANA, CHD & DELHI	SCT	FWS	SCT	ISOL	ISOL	SCT	SCT
14	PUNJAB	SCT	FWS	SCT	ISOL	ISOL	SCT	SCT
15	HIMACHAL PRADESH	WS	WS	WS	FWS	FWS	WS	WS
16	JAMMU AND KASHMIR AND LADAKH	WS	WS	WS	WS	SCT	WS	WS
17	WEST RAJASTHAN	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	FWS	FWS	FWS	SCT	ISOL	SCT	SCT
19	WEST MADHYA PRADESH	FWS	WS	WS	SCT	SCT	SCT	SCT
20	EAST MADHYA PRADESH	WS	WS	WS	FWS	FWS	FWS	FWS
21	GUJRAT REGION	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
22	SAURASHTRA & KUTCH	ISOL	ISOL	SCT	SCT	SCT	ISOL	ISOL
23	KONKAN & GOA	WS	FWS	FWS	FWS	FWS	WS	WS
24	MADHYA MAHARASHTRA	SCT	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
27	CHATTISGARH	FWS	FWS	SCT	SCT	SCT	FWS	FWS
28	COASTAL ANDHRA PRADESH	ISOL	SCT	FWS	FWS	FWS	SCT	SCT
29	TELANGANA	SCT	FWS	FWS	FWS	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	SCT	WS	FWS	FWS	FWS	FWS
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	WS	FWS	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

\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"  
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Fig. 1: Maximum Temperatures Dated 2025-07-15

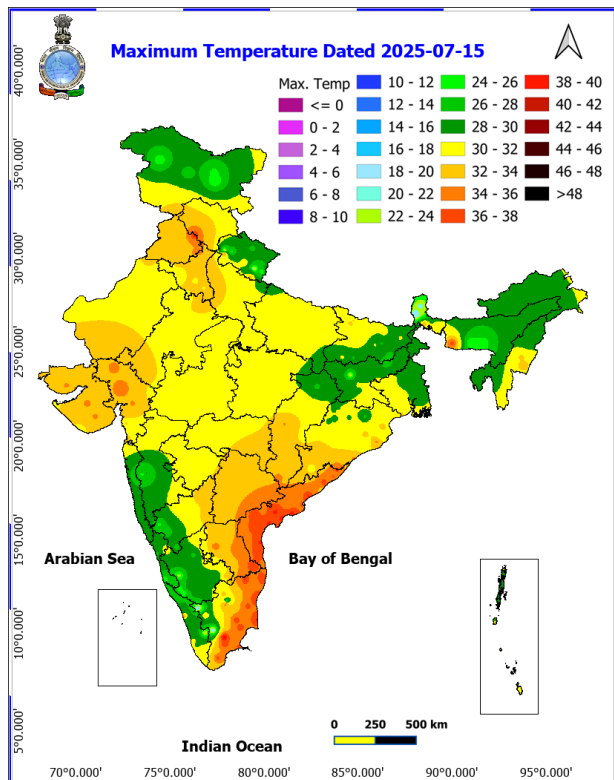


Fig. 2: Departure of Maximum Temp. Dated 2025-07-15

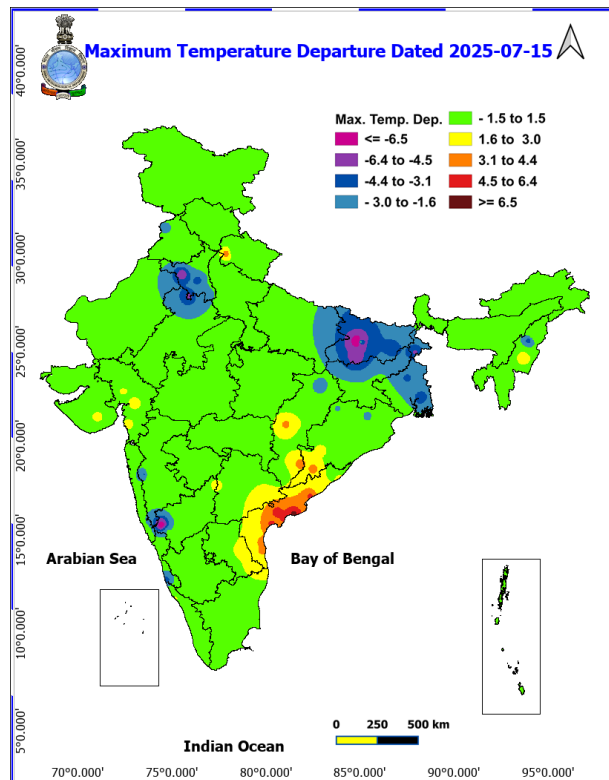


Fig. 3: Minimum Temperatures Dated 2025-07-15

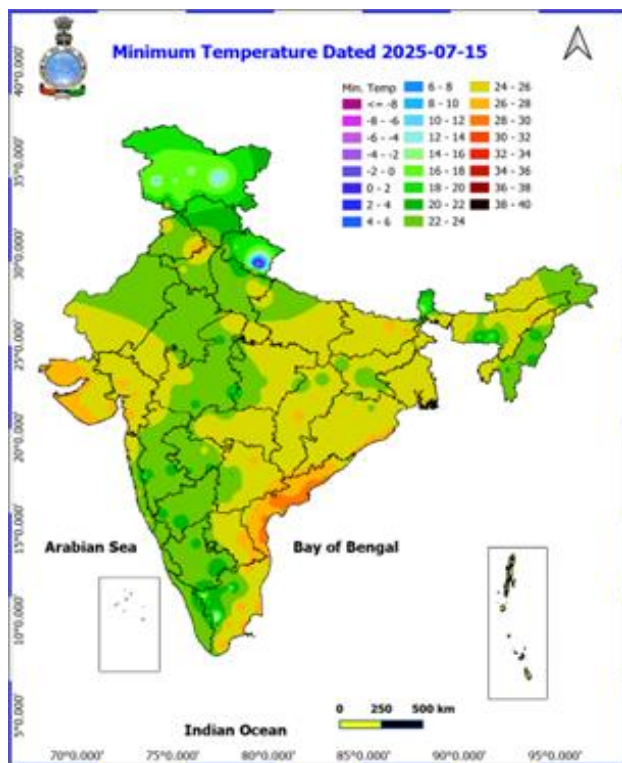
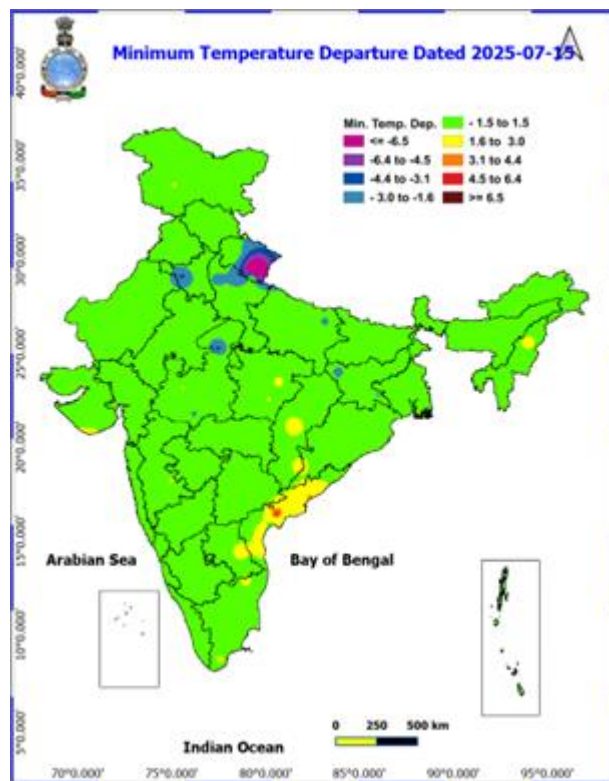
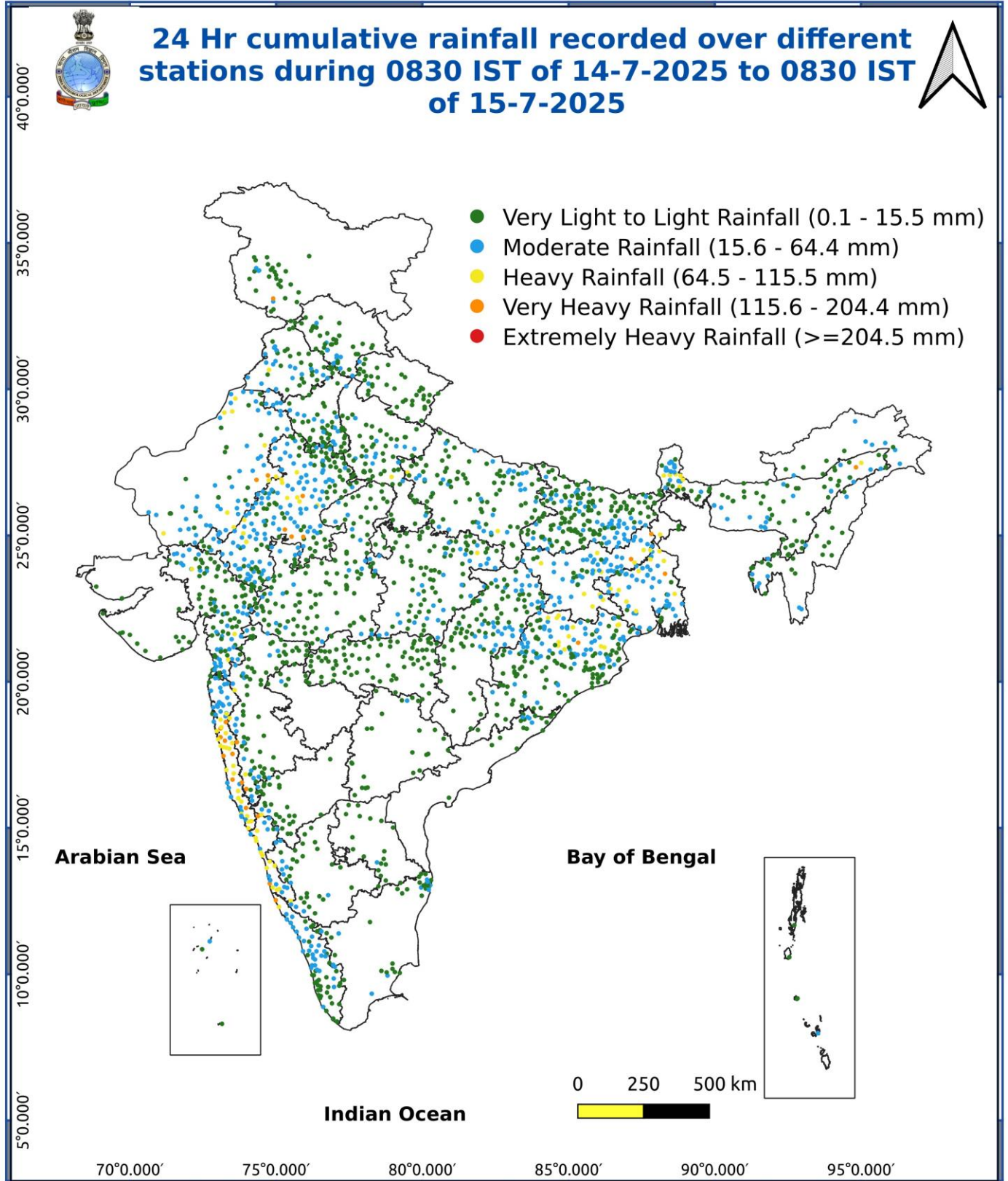


Fig. 4: Departure of Minimum Temp. Dated 2025-07-15







## Impact & Action Suggested

- ♦ **Very heavy rainfall very likely at isolated places over** Jammu & Kashmir, East Rajasthan, Bihar and Jharkhand on 16<sup>th</sup>; Uttarakhand on 17<sup>th</sup>, 20<sup>th</sup> & 21<sup>st</sup>; East Uttar Pradesh on 16<sup>th</sup> & 17<sup>th</sup> July. West Madhya Pradesh on 18<sup>th</sup>, East Madhya Pradesh on 16<sup>th</sup> & 17<sup>th</sup>, Kerala & Mahe, Tamil Nadu, Coastal & South Interior Karnataka during 16<sup>th</sup>-21<sup>st</sup> July.

### Impact Expected

- ♦ Localized Flooding of roads, waterlogging 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 waterlogging in roads leading to increased travel time. Minor damage to kutch 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 waterlogging problem often. Avoid staying in vulnerable structure.

## Agromet advisories for various parts of the country

### Agromet advisories for likely impact of Heavy/Heavy to Very Heavy Rainfall (Based on the IBF and advisories issued by different AMFUs)

In **Rajasthan**, make provision to drain out excess water from rice nurseries and fields of maize, soybean and black gram in **Southeastern Humid Plain Zone**, fields of pearl millet, sesame, black gram and vegetables in **Flood Prone Eastern Plain Zone**, soybean, maize, cotton and groundnut fields in **Southern Humid Plain Zone**, pearl millet and groundnut fields in **Semi Arid Eastern Plain Zone**, maize and soybean fields in **Sub Humid Southern Plain and Aravali Hill Zone** and green gram, cluster bean and sesame in **Arid Western Plain Zone**.

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

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

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



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

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

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

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

In **Konkan**, make arrangement to drain out excess water from rice and finger millet nurseries, groundnut, vegetables and orchards. In **ghat areas** of **Madhya Maharashtra** drain out excess water from rice and finger millet nurseries.

In **Coastal Karnataka**, drain out excess water from rice nurseries, transplanted rice fields and plantations of arecanut and coconut in **Coastal Zone** and from rice nurseries and fields of maize, cotton and ginger and plantations of arecanut in **Hill Zone**.

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

### Livestock / Fishery

Keep the animals inside the shed during heavy rainfall and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

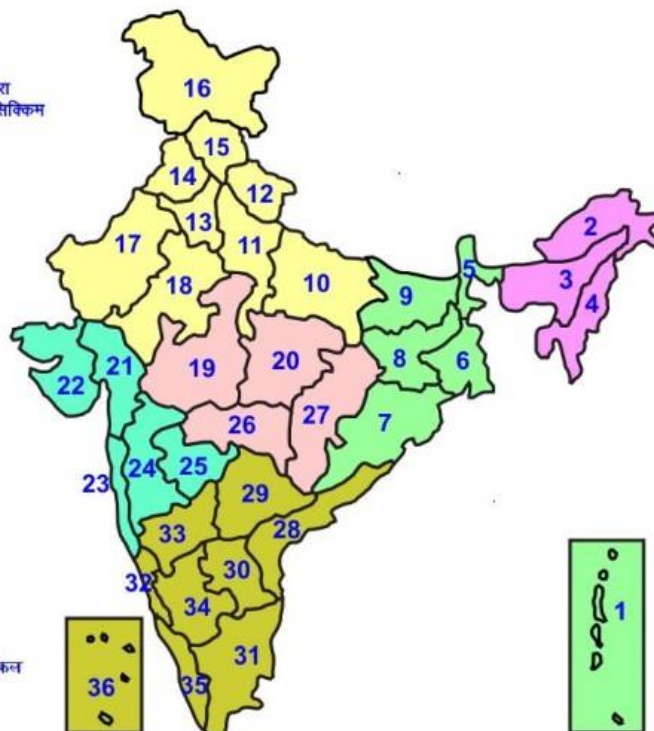
Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

**Agromet advisories for likely impact of Thunderstorm/Gusty Winds/Squally Winds (Based on the IBF and advisories issued by different AMFUs)**

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

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 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              |   |  |  |

\*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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## 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)

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