

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Northeast India:

- Light/moderate rainfall at most/many places likely to continue over northeast India during next 7 days with isolated heavy rainfall over Arunachal Pradesh, Assam & Meghalaya during 09th-12th June.; Tripura on 06th & 07th and Nagaland, Manipur, Mizoram & Tripura during 09th-11th June.

#### East & Central India:

- Light/moderate rainfall at some places likely to continue over Sub-Himalayan West Bengal & Sikkim during next 7 days.
- Light/moderate rainfall at isolated/some places accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** likely over Madhya Pradesh on 06th & 07th; Vidarbha, Chhattisgarh, Odisha during 06th-10th; Gangetic West Bengal, Bihar on 06th, Bihar, Jharkhand during 10th-12th June.

#### Northwest India:

- Light/moderate rainfall at isolated places likely over East Rajasthan during 06th-08th; over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh on 11th & 12th June.
- Dust raising winds (speed 30-40 kmph) very likely over West Rajasthan during 08th-10th June.

#### South Peninsular India:

- Light/moderate rainfall at many/some places over Kerala & Mahe, Coastal Karnataka during next 7 days.
- Light/moderate rainfall at some/isolated places accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** over Coastal Andhra Pradesh, Telangana, Rayalaseema and Karnataka during 06th-10th June.

#### Heat wave and Hot & Humid warnings:

- **Heat wave conditions** are likely to prevail over West Rajasthan during 08th-10th; Punjab, Haryana Chandigarh & Delhi, south Uttar Pradesh, north Madhya Pradesh on 09th & 10th June.
- **Hot & humid weather** is likely to prevail over Odisha during 06th-10th; Coastal Andhra Pradesh & Yanam and Tamilnadu Puducherry & Karaikal during 06th-08th June.

### Main Weather Observations:

❖ Rainfall distribution (from 0830 hours IST to 1730 hours IST of today): **at many places** over Madhya Maharashtra , Sub-Himalayan West Bengal & Sikkim, Tamilnadu Puducherry & Karaikal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Bihar, Odisha, East Rajasthan, East Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands, Konkan & Goa and East Madhya Pradesh; Dry over rest of the country.

❖ Significant rainfall recorded (in cm) (from 0830 hours IST to 1730 hours IST of today): **Odisha:** Chandbali (dist Bhadrak) 8; **Madhya Maharashtra:** Satara (dist Satara) 4, Nashik (dist Nashik) 2; **Coastal Andhra Pradesh & Yanam:** Tuni (dist Kakinada) 2.

❖ Heavy Rainfall observed (from 0830 hours IST to 1730 hours IST of today): **Heavy rain** at isolated places over Odisha.

❖ **Minimum Temperature Departures (as on 06-06-2025): markedly above normal (> 5.1°C)** at isolated places over Assam & Meghalaya, Odisha, Bihar, West Uttar Pradesh, Himachal Pradesh, West Rajasthan, East Madhya Pradesh and Saurashtra & Kutch. **appreciably above normal (3.1°C to 5.0°C)** at few places over Lakshadweep; at isolated places over Sub Himalayan West Bengal & Sikkim, East Uttar Pradesh, West Madhya Pradesh, Gujarat Region and Tamil Nadu, Puducherry & Karaikal. **above normal (1.6°C to 3.0°C)** at many places over Rayalaseema; at most places over Andaman & Nicobar Islands; at few places over Coastal Andhra Pradesh & Yanam; at isolated places over Gangetic West Bengal, Jharkhand, Punjab, Madhya Maharashtra, Vidarbha and Kerala & Mahe. **near normal(-1.5°C to 1.5°C)** at many places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa and Telangana; at most places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, North Interior Karnataka and South Interior Karnataka; at few places over East Rajasthan, Marathwada and Chhattisgarh; at isolated places over Haryana- Chandigarh-Delhi. Today, **the lowest minimum temperature of 20.6°C** is reported at **Khargone (West Madhya Pradesh)**over the Plains of India.

❖ **Maximum Temperature Departures (as on 06-06-2025): appreciably above normal (3.1°C to 5.0°C)** at few places over Arunachal Pradesh; at isolated places over Assam & Meghalaya, Odisha, West Uttar Pradesh, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **above normal(1.6°C to 3.0°C)** at many places over Lakshadweep; at few places over Sub Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and North Interior Karnataka; at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand, East Uttar Pradesh, West Rajasthan, East Madhya Pradesh and Saurashtra & Kutch. **near normal(-1.5°C to 1.5°C)** at many places over Punjab, Konkan & Goa, Madhya Maharashtra, Vidarbha, Telangana, Rayalaseema and South Interior Karnataka; at most places over Nagaland, Manipur, Mizoram & Tripura, Bihar and Gujarat Region; at few places over Uttarakhand, Haryana- Chandigarh-Delhi, East Rajasthan, West Madhya Pradesh and Marathwada. The **highest maximum temperature of 43.4°C** was reported at BARMER (RAJASTHAN).

**Meteorological Analysis (Based on 1730 hours IST)**

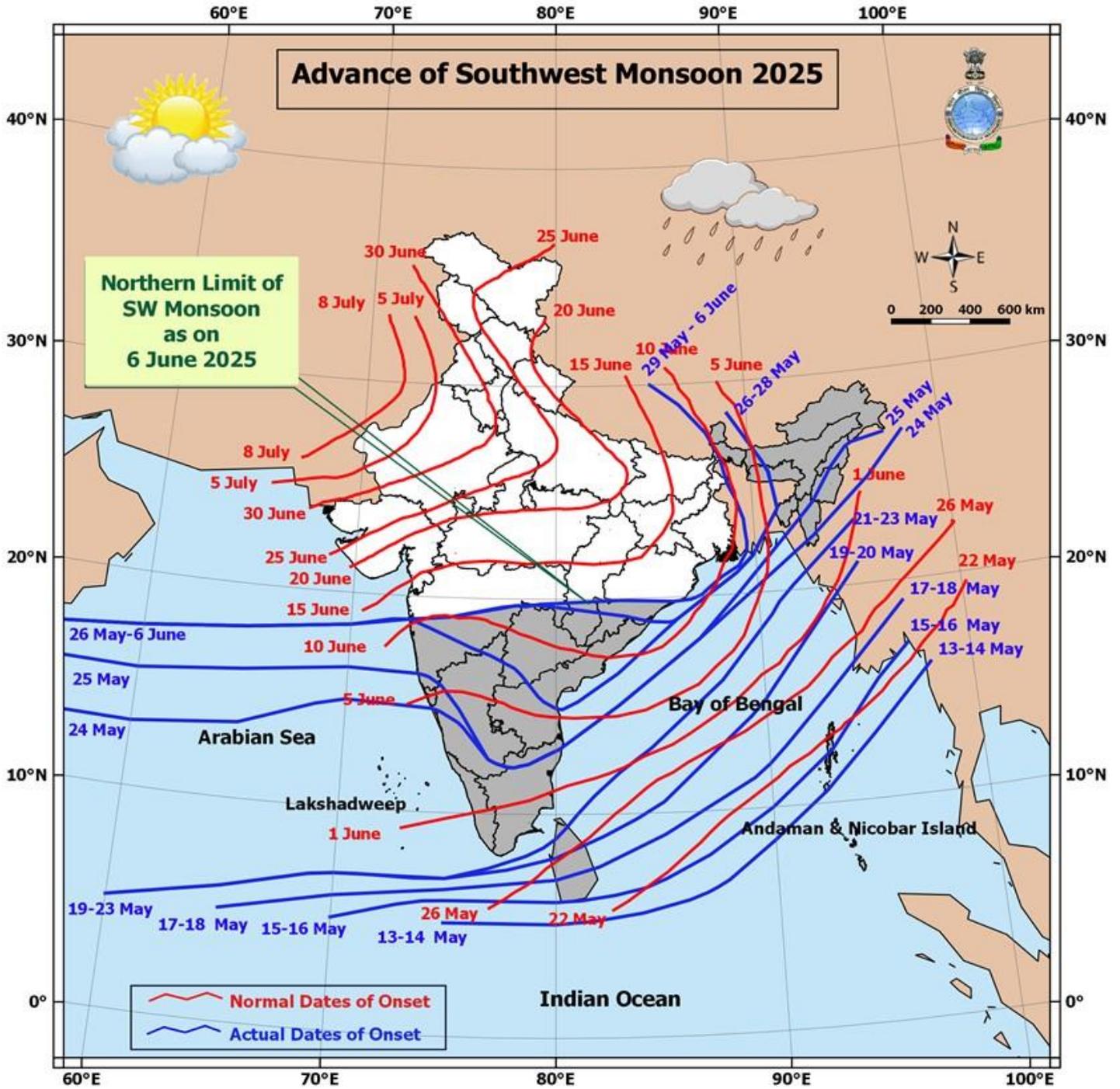
- ♦ The Northern Limit of Monsoon continues to pass through 17.0°N/55°E, 17.5°N/60°E, 18°N/65°E, 18.5°N/70°E, Mumbai, Ahilyanagar, Adilabad, Bhawanipatna, Puri, Sandhead Island, 23.5°N/89.5°E, Balurghat, 30°N/85°E.
- ♦ The **trough** in middle & upper tropospheric westerlies now roughly along Long. 83°E to the north of Lat. 22°N at 5.8 km above mean sea level.
- ♦ The **upper air cyclonic circulation** over northwest Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- ♦ The **trough** from south Madhya Maharashtra to Coastal Andhra Pradesh across North Interior Karnataka and Telangana at 1.5 km above mean sea level persists.
- ♦ The **upper air cyclonic circulation** over North Interior Karnataka & neighbourhood at 3.1km above mean sea level persists.
- ♦ The **upper air cyclonic circulation** over northwest Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ♦ The **upper air cyclonic circulation** over northeast Assam & neighbourhood and extends upto 1.5 km above mean sea level persists.
- ♦ The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now roughly along Long. 56°E to the north of Lat. 27°N.

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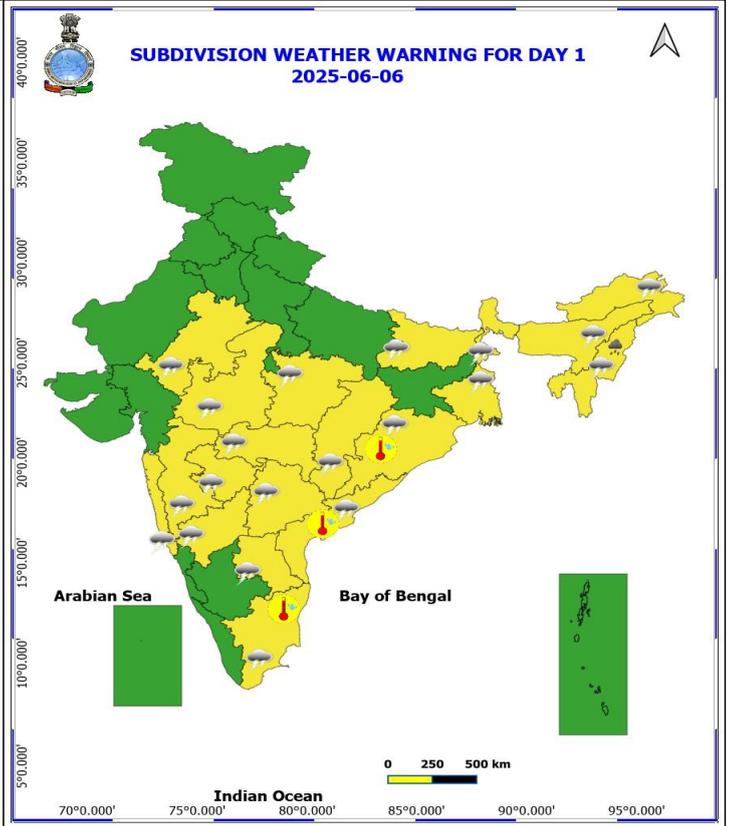
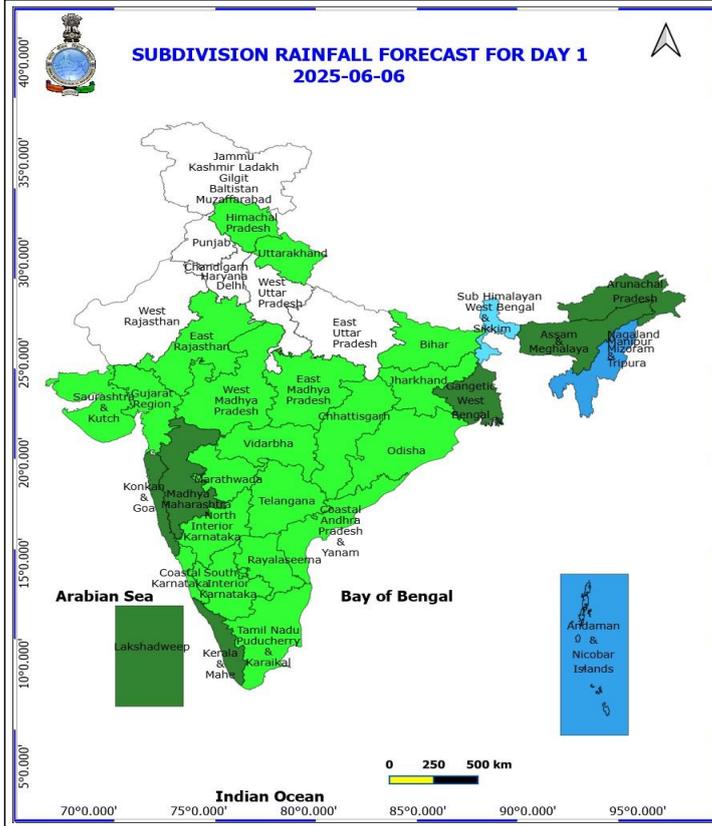
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## 6 June (Day 1)

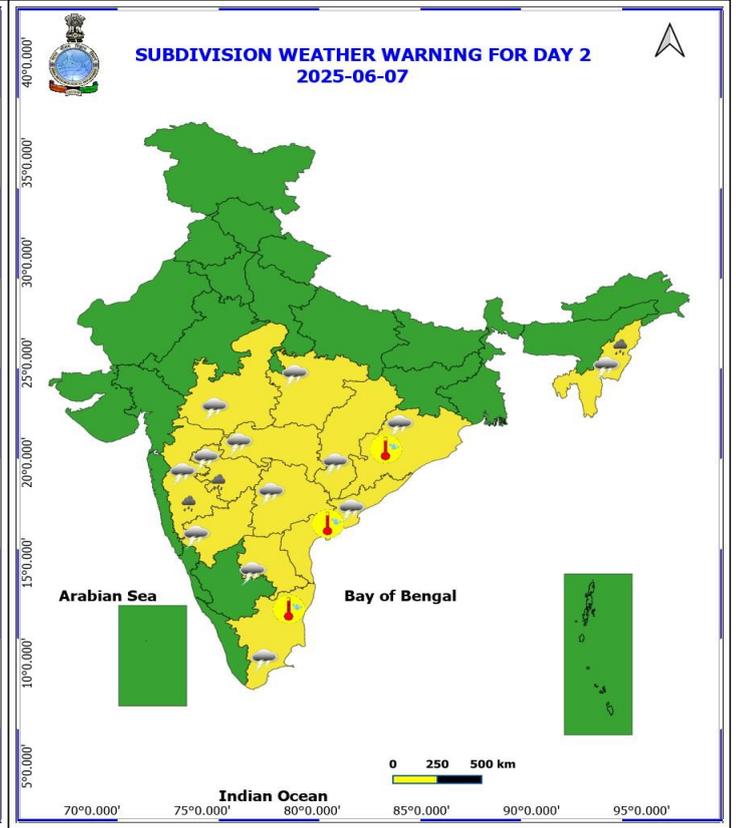
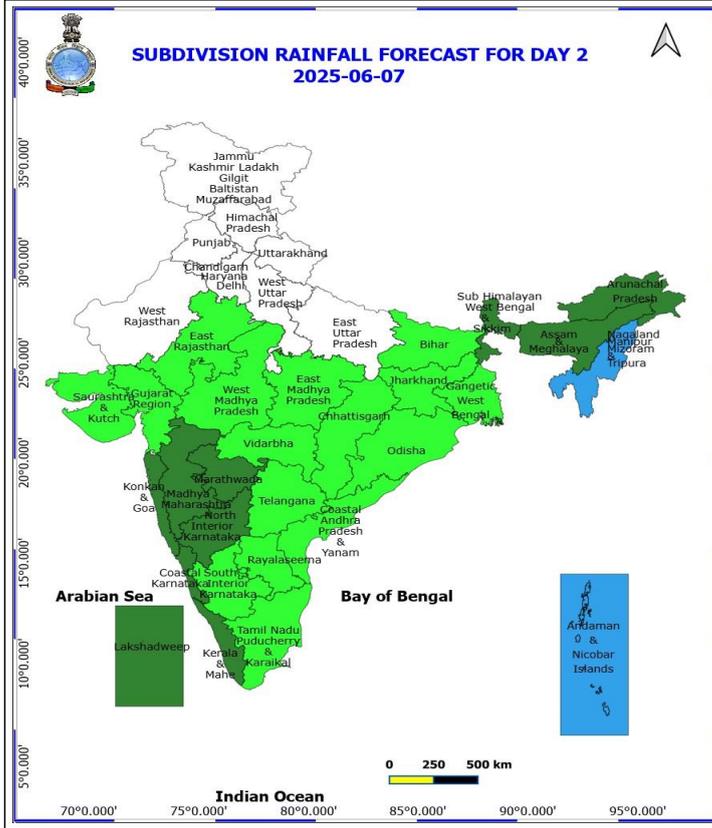
- ❖ **Heavy Rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Chhattisgarh, East Madhya Pradesh, East Rajasthan, Odisha, Rayalaseema, Telangana, Vidarbha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram and Tripura, North Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Odisha and Tamil Nadu Puducherry & Karaikal.
- ❖ **Squally wind** with speed 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Somalia coast and adjoining southwest & westcentral Arabian Sea.

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## 7 June (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Madhya Maharashtra, Marathwada and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Chhattisgarh and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Madhya Pradesh, Odisha, Rayalaseema and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Coastal Andhra Pradesh, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram and Tripura, North Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Odisha and Tamil Nadu Puducherry & Karaikal.
- ❖ Squally wind with speed 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Somalia coast and adjoining southwest & westcentral Arabian Sea.

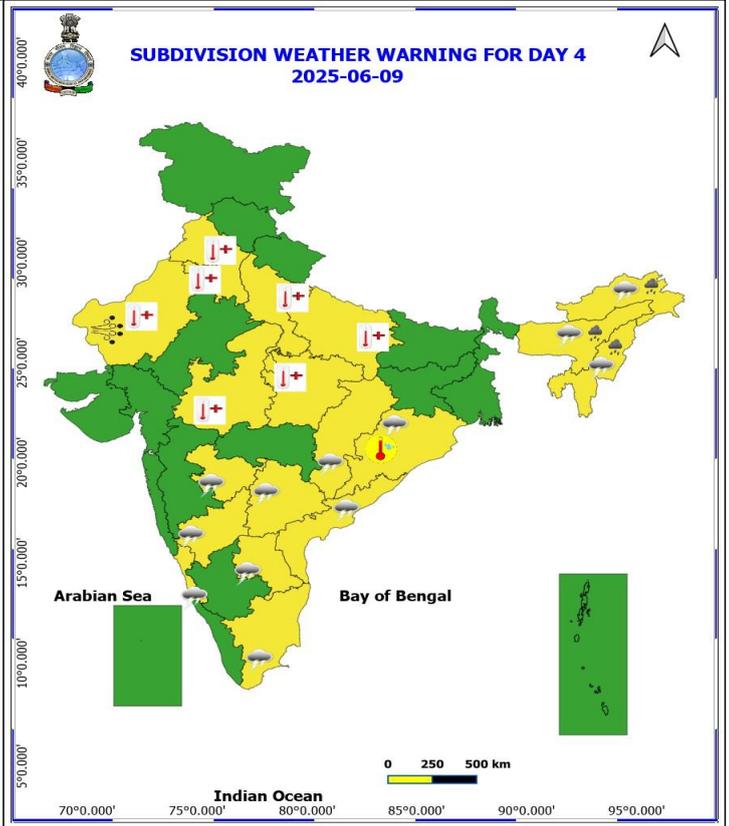
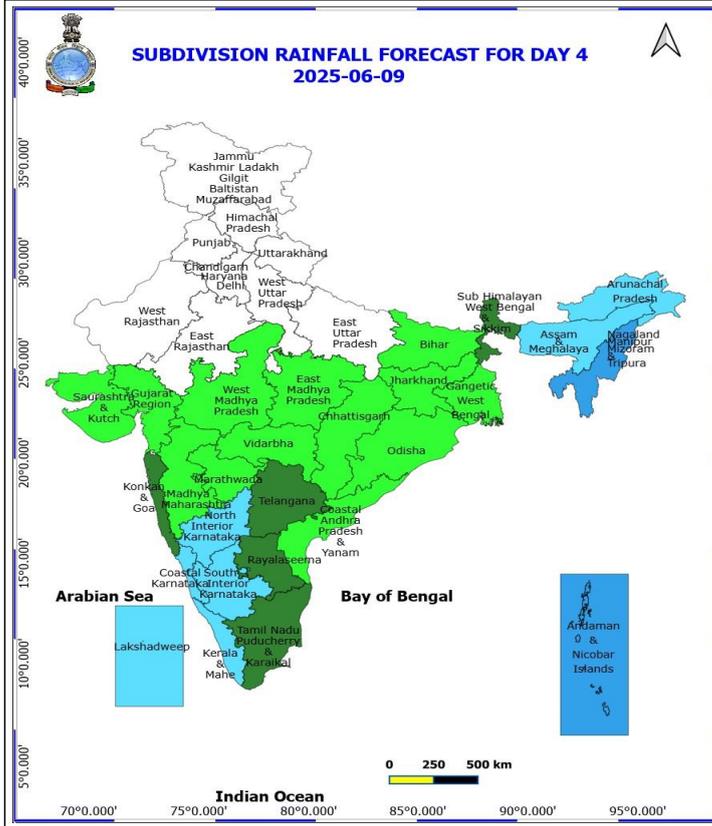
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#### 9 June (Day 4)

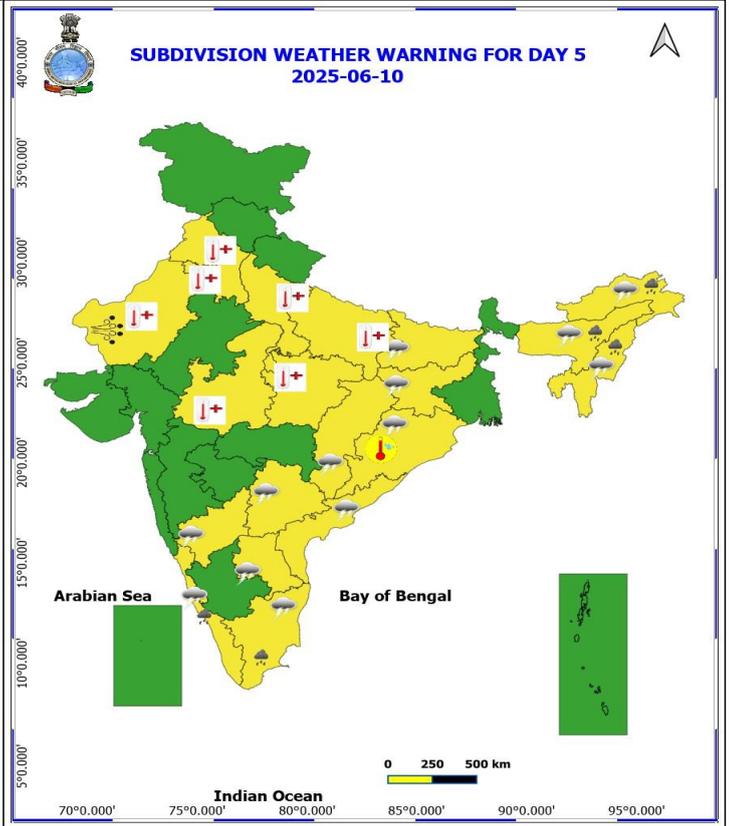
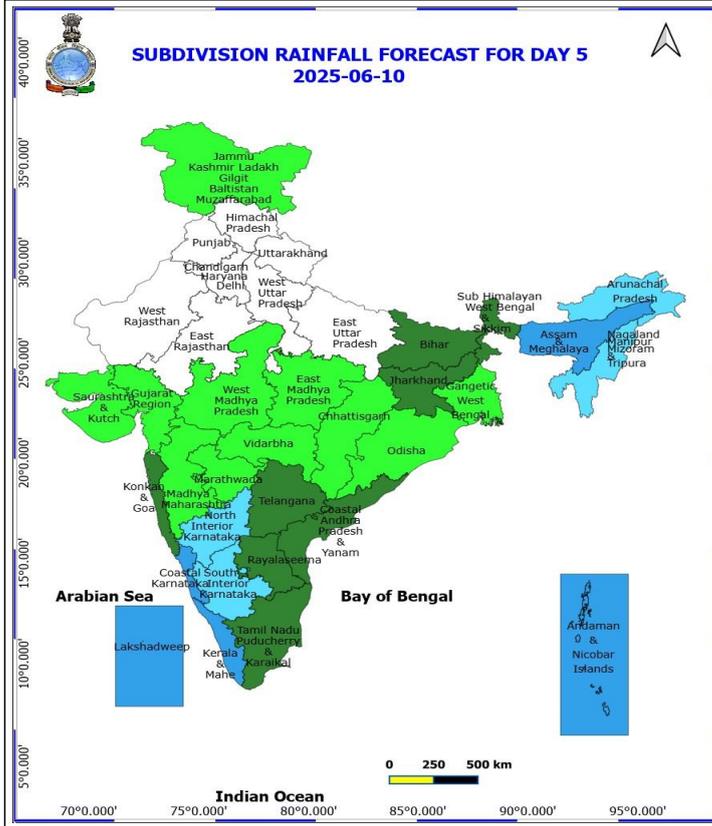
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Odisha, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Costal Karnataka, Marathwada and North Interior Karnataka.
- ❖ **Dust Raising Winds** likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** likely at isolated places over Haryana, Chandigarh & Delhi, Madhya Pradesh, Punjab, Uttar Pradesh and West Rajasthan.
- ❖ **Hot and Humid weather** likely at isolated places over Odisha.
- ❖ Squally wind with speed 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Somalia coast and adjoining southwest & westcentral Arabian Sea. Squally weather with wind speed 35 - 45 kmph gusting to 55 kmph likely to prevail over many parts of south Bay of Bengal, Comorin Area & adjoining Gulf of Mannar and Andaman Sea.

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## 10 June (Day 5)

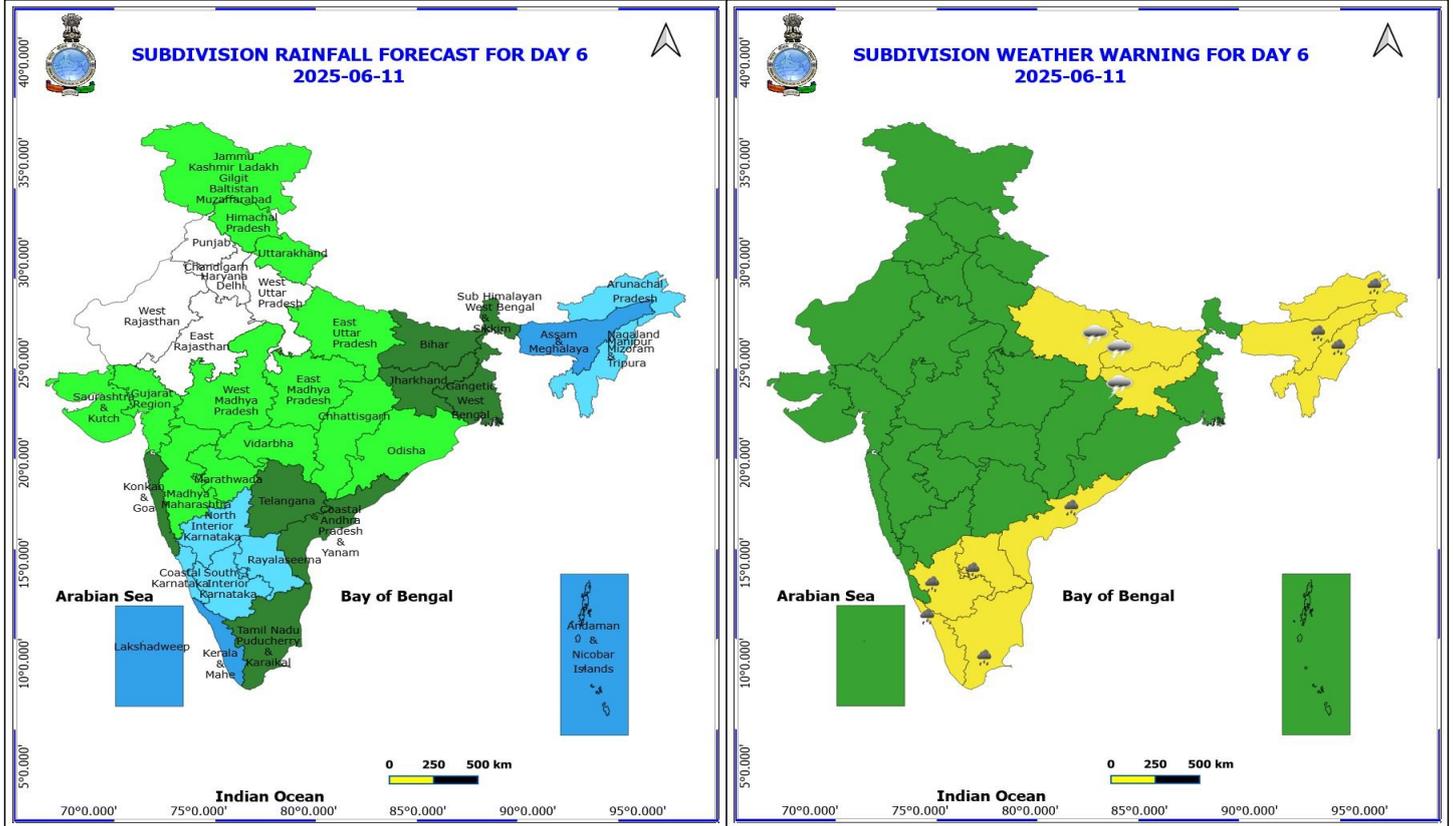
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Chhattisgarh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, North Interior Karnataka, Odisha, Tamil Nadu Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Coastal Karnataka and Jharkhand.
- ❖ **Dust Raising Winds** likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** likely at isolated places over Haryana, Chandigarh & Delhi, Madhya Pradesh, Punjab, Uttar Pradesh and West Rajasthan.
- ❖ **Hot and Humid weather** likely at isolated places over Odisha.
- ❖ Squally wind with speed 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Somalia coast and adjoining southwest & westcentral Arabian Sea. Squally weather with wind speed 35 - 45 kmph gusting to 55 kmph likely to prevail over many parts of south Bay of Bengal, Comorin Area & adjoining Gulf of Mannar and Andaman Sea. Squally wind with speed 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Somalia coast and adjoining southwest & westcentral Arabian Sea. Squally weather with wind speed 35 - 45 kmph gusting to 55 kmph likely to prevail over many parts of south Bay of Bengal, Comorin Area & adjoining Gulf of Mannar and Andaman Sea.

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**11 June (Day 6)**

- ❖ **Heavy Rainfall** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar and East Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Jharkhand.

**No Fishermen Warning**





## Table-1

### 7 Days Rainfall Forecast

S.No.	Subdivision	6- Jun	7- Jun	8- Jun	9- Jun	10- Jun	11- Jun	12- Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	FWS
2	ARUNACHAL PRADESH	SCT	SCT	SCT	FWS	FWS	FWS	FWS
3	ASSAM & MEHGHALAYA	SCT	SCT	SCT	FWS	WS	WS	WS
4	N. M. M. & T.	WS	WS	WS	WS	FWS	FWS	FWS
5	S.H. WEST BENGAL & SIKKIM	FWS	SCT	SCT	SCT	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	SCT	ISOL	ISOL	ISOL	ISOL	SCT	SCT
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
9	BIHAR	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	DRY	DRY	DRY	DRY	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	DRY	DRY	DRY	DRY	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJRAT REGION	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	SCT	SCT	SCT	SCT	SCT	SCT	FWS
24	MADHYA MAHARASHTRA	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	SCT	SCT	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	SCT	SCT	FWS
29	TELANGANA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
32	COSTAL KARNATAKA	ISOL	SCT	SCT	FWS	WS	FWS	WS
33	NORTH INTERIOR KARNATAKA	ISOL	SCT	SCT	FWS	FWS	FWS	FWS
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	FWS	FWS	FWS	FWS
35	KERALA	SCT	SCT	SCT	FWS	WS	WS	WS
36	LAKSHDWEEP	SCT	SCT	SCT	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 2025-06-06

Fig. 2: Departure of Maximum Temp. Dated 2025-06-06

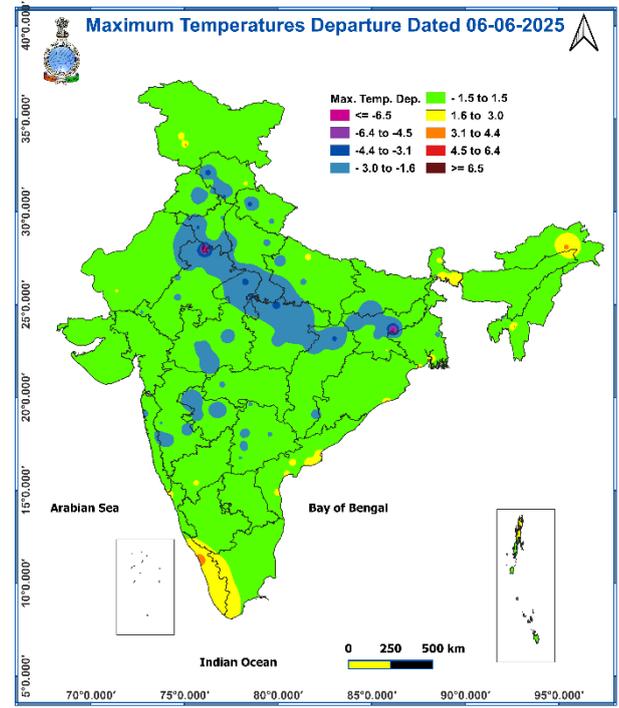
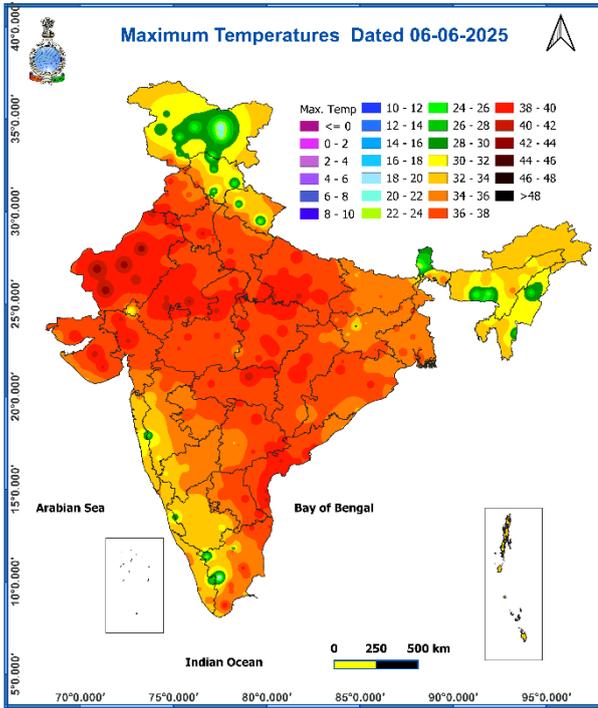
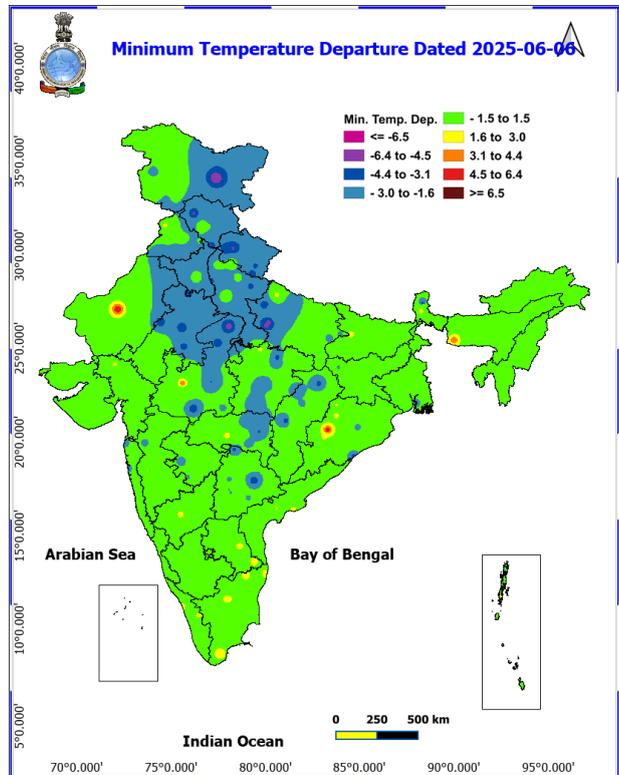
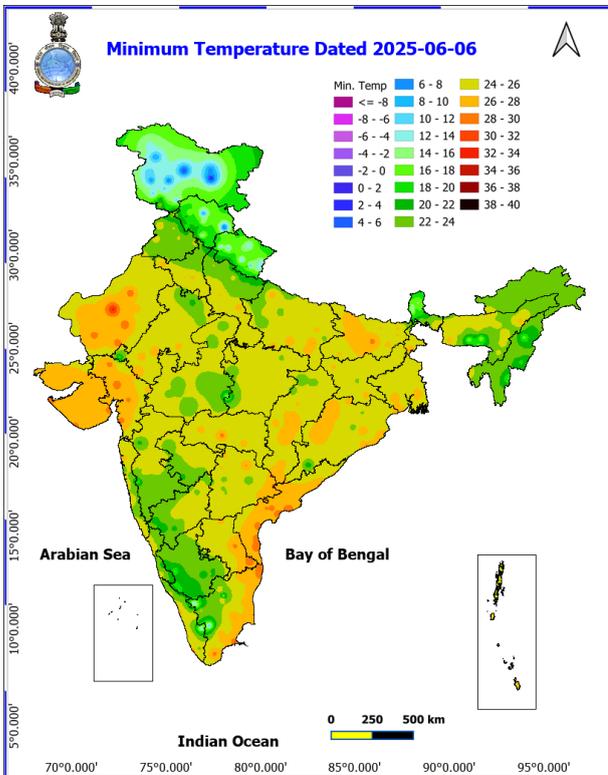


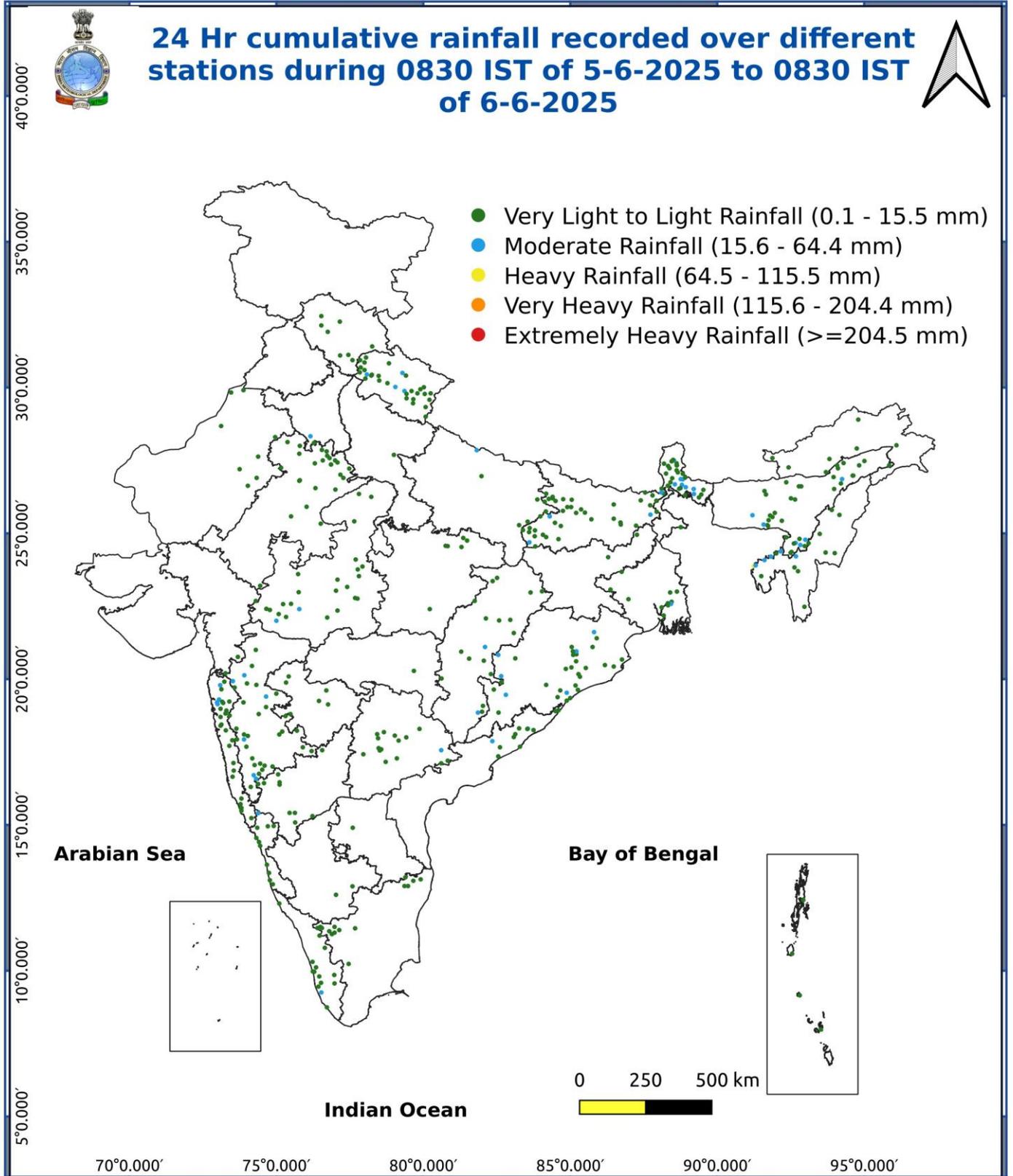
Fig. 3: Minimum Temperatures Dated 2025-06-06

Fig. 4: Departure of Minimum Temp. Dated 2025-06-06



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**Impact expected and action suggested due to Heat wave** over West Rajasthan during 08th-10th; Punjab, Haryana Chandigarh & Delhi, south Uttar Pradesh, north Madhya Pradesh on 09th & 10th June.

#### Yellow alert Areas

- ♦ Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ♦ Avoid heat exposure.
- ♦ Wear lightweight, light colour, loose, cotton clothes.
- ♦ Cover your head, use a cloth, hat or umbrella.

#### Agromet advisories for various parts of the country

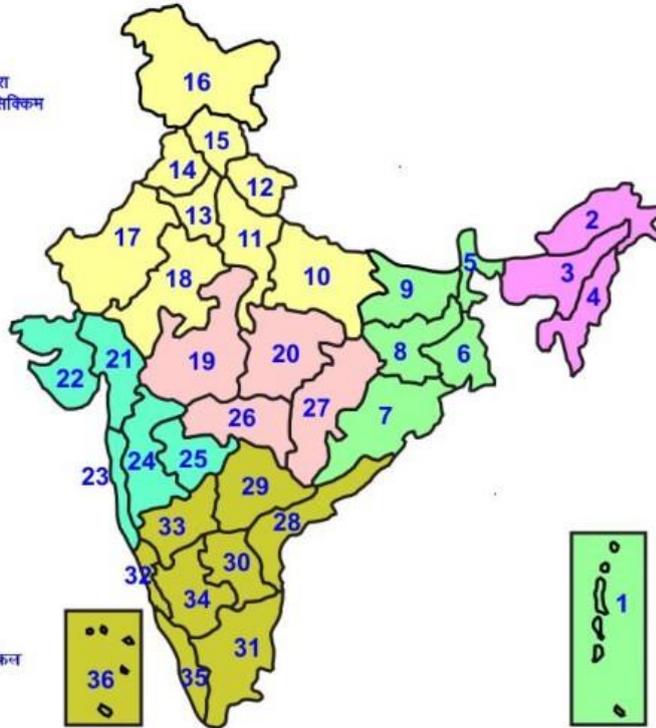
- ♦ Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- ♦ Provide mechanical support and propping to horticultural crops and staking to vegetables to avoid lodging.

#### Livestock / Fishery

- ♦ Keep the animals inside the shed during 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.

## 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. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

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

## Subdivision Colour

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

## Probabilistic Forecast

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

- |                          |                 |                      |                    |
|--------------------------|-----------------|----------------------|--------------------|
| Heavy Rain               | Very Heavy Rain | Extremely Heavy Rain | Heavy Snow         |
| Thunderstorm & Lightning | Hailstorm       | Dust Storm           | Dust Raising Winds |
| Strong surface winds     | Heat Wave       | Hot Day              | Warm Night         |
| Cold Wave                | Cold Day        | Ground Frost         | Fog                |
| Hot & Humid              |                 |                      |                    |

\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

Forecast and warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit <https://mausam.imd.gov.in> or contact 011-2434-4599

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## 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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