

Monday, August 5, 2024
Time of Issue: 0840 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- ✓ The **deep depression** over northwest Madhya Pradesh and adjoining Northeast Rajasthan moved west-northwestwards with a speed of 23 kmph during past 6 hours, weakened into a **depression** and lay centered at 0530 hours IST of 5th August over Northeast Rajasthan and adjoining Northwest Madhya Pradesh near latitude 26.3°N and longitude 76.2°E, about 180 km northwest of Shivpuri (Madhya Pradesh), 40 km north-northwest of Sawai Madhopur (Rajasthan) and 70 km southeast of Jaipur (Rajasthan). It is likely to move west-northwestwards across northeast Rajasthan and weaken further into a **well marked low pressure area** during next 24 hours.
- ✓ The **Monsoon trough** is active and south of the normal position at mean sea level.
- ✓ The **off-shore trough** at mean sea level runs along South Gujarat to north Kerala coast.

Forecast & Warnings associated with weather systems (upto 7 days):

❖ Forecast warning for Northwest India

- ✓ Fairly widespread to widespread light/moderate rainfall **accompanied with thunderstorm & lightning** very likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand & Rajasthan; scattered to fairly widespread rainfall over Uttar Pradesh; isolated to scattered rainfall over Punjab, Haryana-Chandigarh-Delhi during the week.
- ✓ Isolated **very heavy rainfall** also likely over West Rajasthan during 05th-06th, Uttarakhand on 06th & 07th August.
- ✓ Isolated **heavy rainfall** very likely over Jammu-Kashmir during 05th-07th; Himachal Pradesh during 05th-10th, Haryana-Chandigarh-Delhi on 07th & 08th, Uttarakhand on 05th & during 08th-10th, West Uttar Pradesh during 06th-10th, East Uttar Pradesh during 05th-10th, West Rajasthan on 09th& 10th, East Rajasthan on 05th & during 7th-10th August.

❖ West & Central India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm & lightning** very likely over the region Konkan & Goa & Gujarat Region during the week; scattered to fairly widespread rainfall over Madhya Maharashtra, Marathwada & Saurashtra & Kutch during the week.
- ✓ **Heavy to very heavy rainfall** very likely at isolated places over Gujarat Region and Madhya Maharashtra on 05th August.
- ✓ **Heavy rainfall** very likely at isolated places over West Madhya Pradesh during 05th-10th, East Madhya Pradesh on 05th, 07th, 09th & 10th, Gujarat Region during 06th-10th, Konkan & Goa on 05th, 06th & during 08th-10th, Madhya Maharashtra on 06th & during 08th-10th, Chhattisgarh on 06th-10th August.

❖ East & Northeast India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm, lightning** very likely over East & Northeast India during the week.
- ✓ **Very heavy rainfall** very likely at isolated places over Arunachal Pradesh on 07th-09th, Assam & Meghalaya on 05th, 06th & 09th; Nagaland, Manipur, Mizoram & Tripura on 05th, Sub-Himalayan West Bengal & Sikkim on 05th & 06th August.
- ✓ Isolated **heavy rainfall** very likely over Arunachal Pradesh during 05th-06th & 10th, Assam & Meghalaya on 07th, 08th & 10th, Nagaland, Manipur, Mizoram & Tripura during 06th-10th, Sub-Himalayan West Bengal & Sikkim on 07th & 08th, Gangetic West Bengal, Odisha & Jharkhand on 06th & 07th August.

❖ South Peninsular India:

- ✓ Fairly widespread to widespread light to moderate rainfall over Kerala & Mahe, Lakshadweep, & Coastal Karnataka and isolated to scattered rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, interior Karnataka and Rayalaseema during next 5 days.
- ✓ **Heavy rainfall** very likely at isolated places over Kerala & Mahe & Tamil Nadu on 05th; Coastal Karnataka during 05th-06th August.

* Red colour warning does not mean "Red Alert", Red colour 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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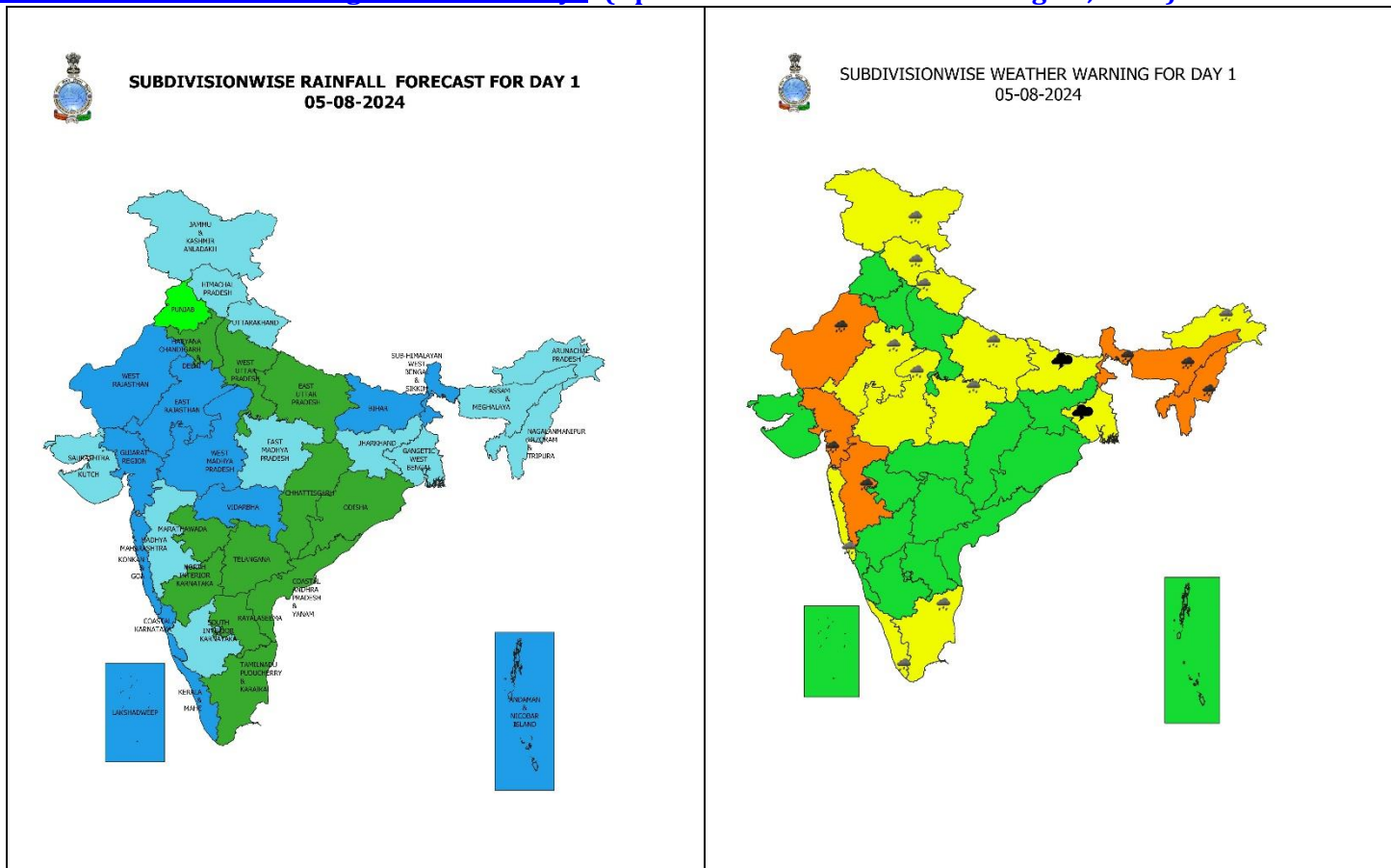
Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Gangetic West Bengal, Madhya Pradesh, Vidarbha, Konkan & Goa, Gujarat state and Coastal Karnataka; **at a few places** over Madhya Maharashtra, Odisha and Andaman & Nicobar Islands; **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, North Interior Karnataka, Rajasthan and Lakshadweep.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Madhya Maharashtra.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **West Uttar Pradesh:** Jhansi-2; **East Rajasthan:** Udaipur-2; **Gujarat Region:** Bulsar-4, Daman-3; **Madhya Maharashtra:** Mahabaleshwar- 11, Shivajinagar (Pune)-4, Nasik-3; **Konkan & Goa:** Matheran-5, Dahanu-2; **Coastal Karnataka:** Honavar- 4, Karwar-2; **East Madhya Pradesh:** Nowgong-4, Tikamgarh-3, Satna & Chhindwara-2 each; **West Madhya Pradesh:** Panchmarhi, Shivpuri & Gwalior-4 each, Guna-3, Ratlam, Bhopal, Raisen, Hoshangabad, Khandwa & Betul -2 each; **Chhattisgarh:** Pendra road-2; **Gangetic West Bengal:** Burdwan-4, Howrah-2.
- ❖ **Minimum Temperature Departures (as on 04-08-2024):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Punjab, Coastal Andhra Pradesh & Yanam and at isolated places Uttarakhand, Himachal Pradesh, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Odisha, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Telangana, Marathwada, Madhya Maharashtra and North Interior Karnataka. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Jharkhand, Chhattisgarh, West Bengal & Sikkim and Bihar **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 18.2°C was reported at **Bulsar Valsad (Gujarat Region)** over the plains of the country. (Fig.4)
- ❖ **Maximum Temperature Departures (as on 04-08-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at many places over Odisha; at a few places over Punjab and Rayalaseema; at isolated places over Himachal Pradesh, West Uttar Pradesh, Assam & Meghalaya, Gangetic West Bengal. These were **Appreciably below normal (-3.1°C to -5.0°C)** at a few places over West Madhya Pradesh; at isolated places East Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at isolated places over Rajasthan, Gujarat state, Madhya Maharashtra, Vidarbha, Coastal Karnataka, North Interior Karnataka and East Uttar Pradesh and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature** of 39.0°C was reported at **Thanjavur (Tamil Nadu, Puducherry & Karaikal)** over the country. (Fig. 2)

Meteorological Analysis (Based on 0530 hours IST)

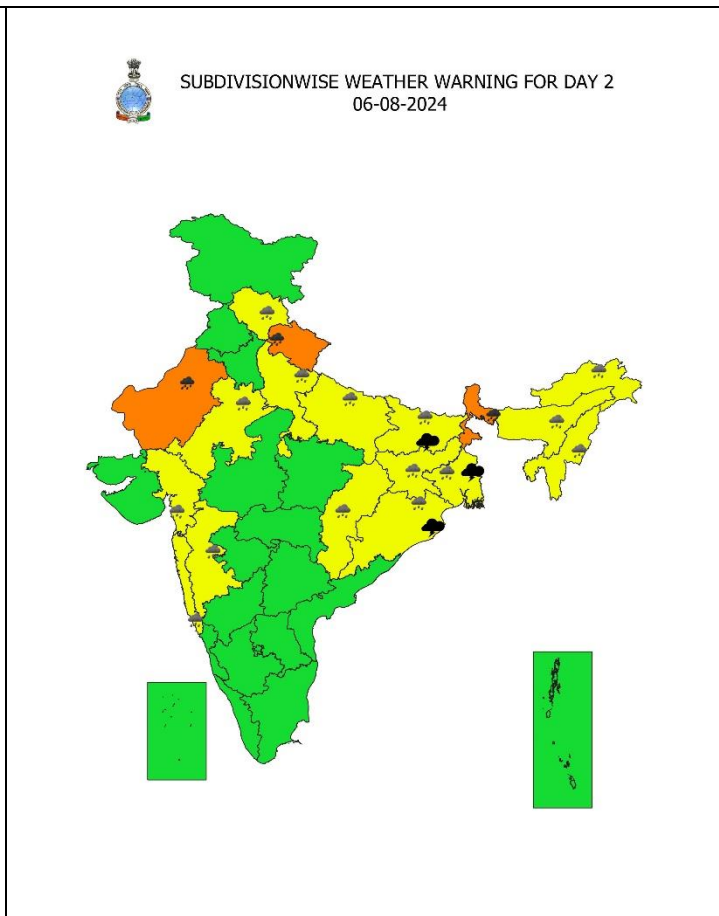
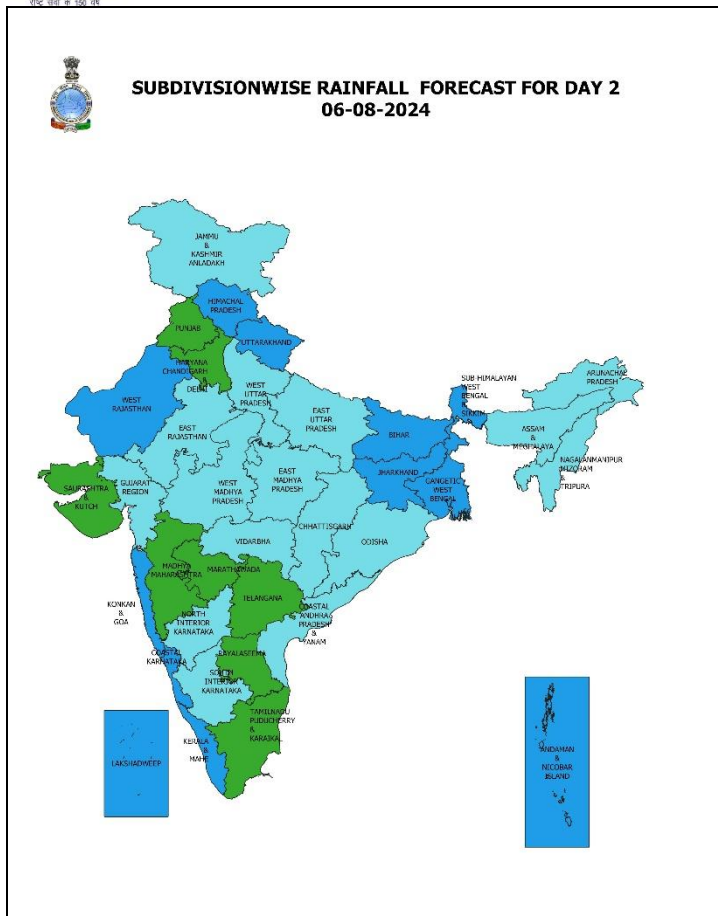
- ❖ The **deep depression** over northwest Madhya Pradesh and adjoining Northeast Rajasthan moved west-northwestwards with a speed of 23 kmph during past 6 hours, weakened into a **depression** and lay centered at 0530 hours IST of 5th August over Northeast Rajasthan and adjoining Northwest Madhya Pradesh near latitude 26.3°N and longitude 76.2°E, about 180 km northwest of Shivpuri (Madhya Pradesh), 40 km north-northwest of Sawai Madhopur (Rajasthan) and 70 km southeast of Jaipur (Rajasthan). It is likely to move west-northwestwards across northeast Rajasthan and weaken further into a **well marked low pressure area** during next 24 hours.
- ❖ The **Monsoon trough** at mean sea level now passes through Jaisalmer, Ajmer, center of the depression over northeast Rajasthan & adjoining northwest Madhya Pradesh, Satna, Balasore and thence east-southwards to eastcentral Bay of Bengal.
- ❖ The east-west **trough** now runs from the above mentioned **depression** over northeast Rajasthan & adjoining northwest Madhya Pradesh to west Assam between 0.9 km & 4.5 km above mean sea level.
- ❖ The **off-shore trough** at mean sea level along south Gujarat to north Kerala coast persists.
- ❖ The **cyclonic circulation** over northeast Assam at 0.9 km above mean sea level persists.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 12th August, 2024)



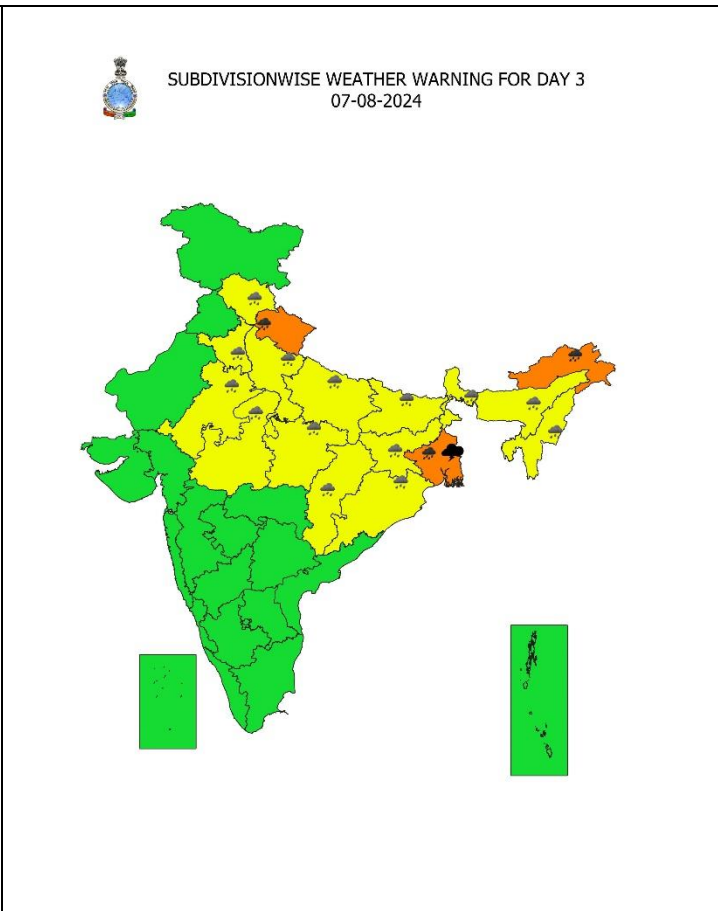
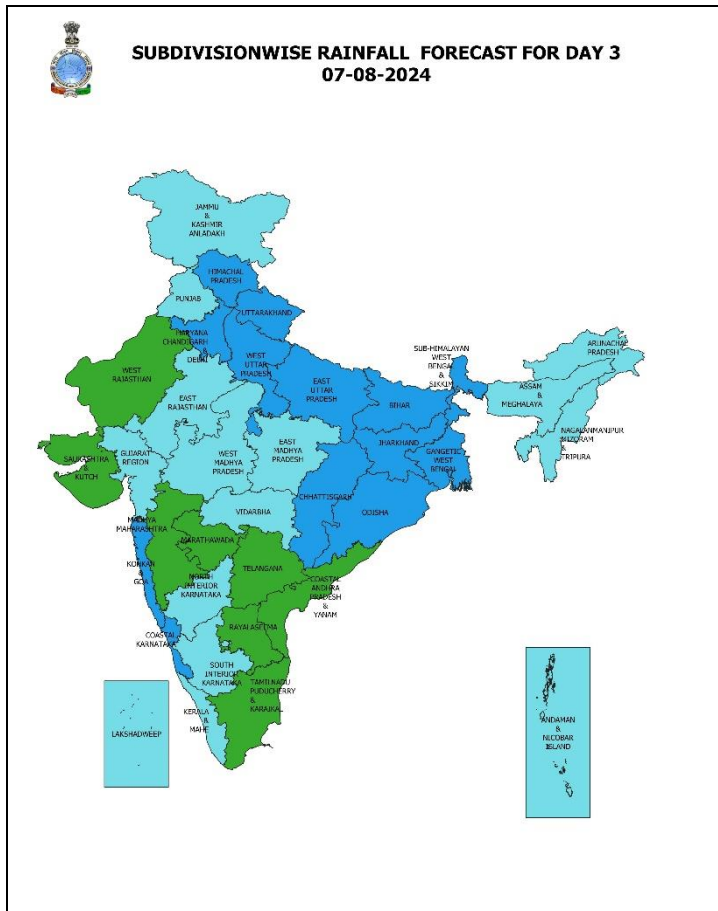
05 August (Day 1):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** very likely at isolated places over West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra & Gujarat Region; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Bihar, Jharkhand, Rajasthan, Uttar Pradesh and Madhya Pradesh.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over southern parts of northeast Arabian sea, many parts of eastcentral and westcentral Arabian sea, northern parts of southwest Arabian sea, along and off south Gujrat and north Maharashtra coasts, gulf of Mannar, central parts of bob. **squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, along & off Somalia, Yemen & Oman coasts. Fishermen are advised not to venture into these areas.



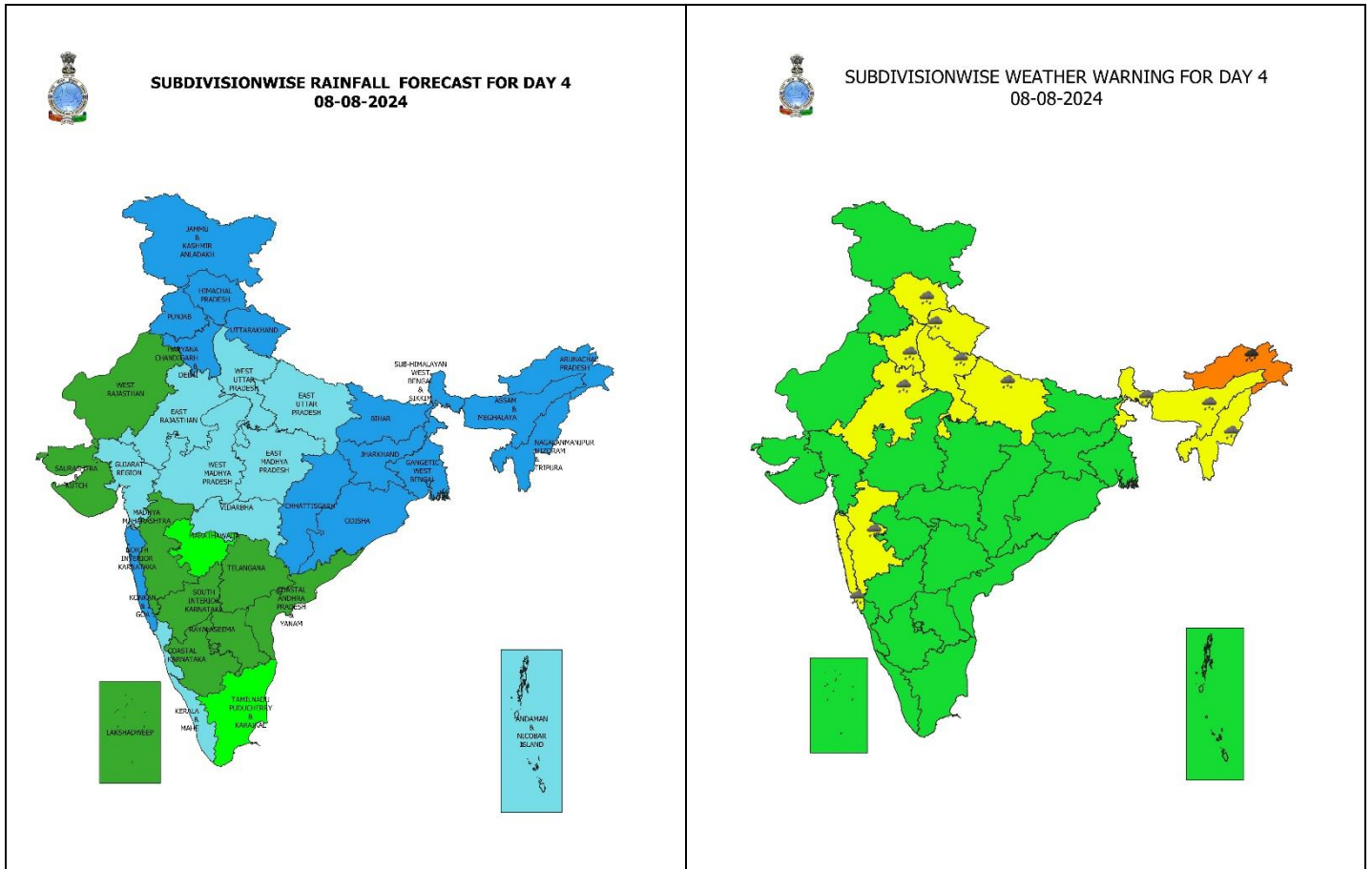
06 August (Day 2):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** very likely at isolated places over Uttarakhand, West Rajasthan, Sub-Himalayan West Bengal & Sikkim; **Heavy rainfall (≥ 7 cm) at isolated places** over Himachal Pradesh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Gangetic West Bengal, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa Madhya Maharashtra and Gujarat Region.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Bihar, Jharkhand, Rajasthan, Uttar Pradesh and Madhya Pradesh.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over southern parts of northeast and adjoining northwest Arabian sea, many parts of eastcentral and westcentral Arabian sea, northern parts of southwest Arabian sea, off Gujarat coast, gulf of Mannar, off Sri Lanka coast, over many parts of central and southwest bob. **squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over westcentral Arabian sea & adjoining areas of southwest Arabian sea, along & off Somalia, Yemen & Oman coasts. Fishermen are advised not to venture into these areas.



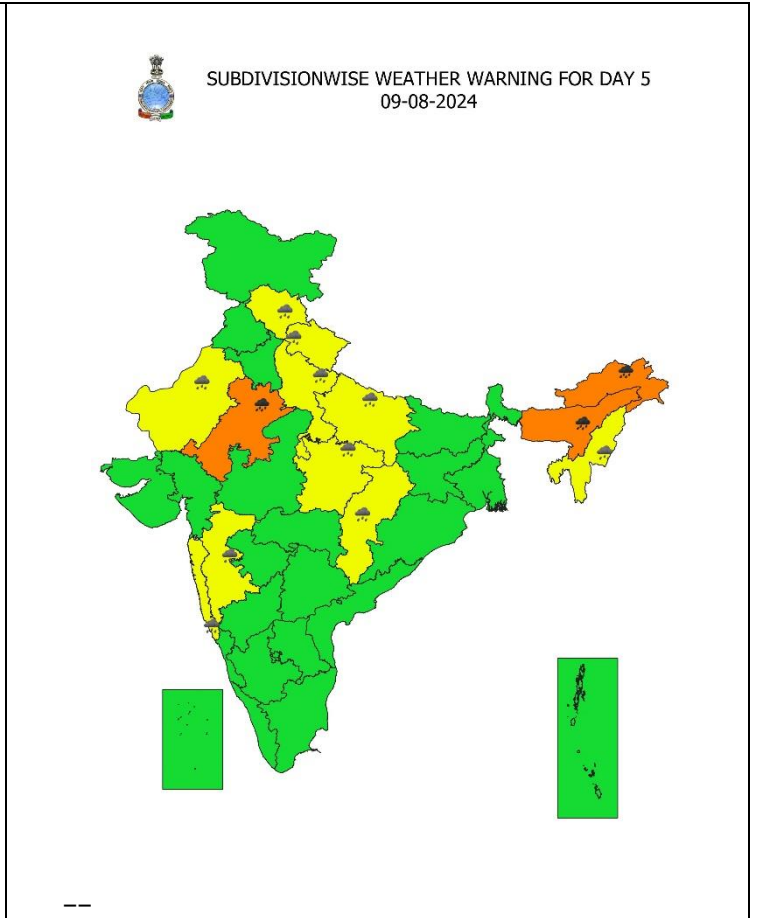
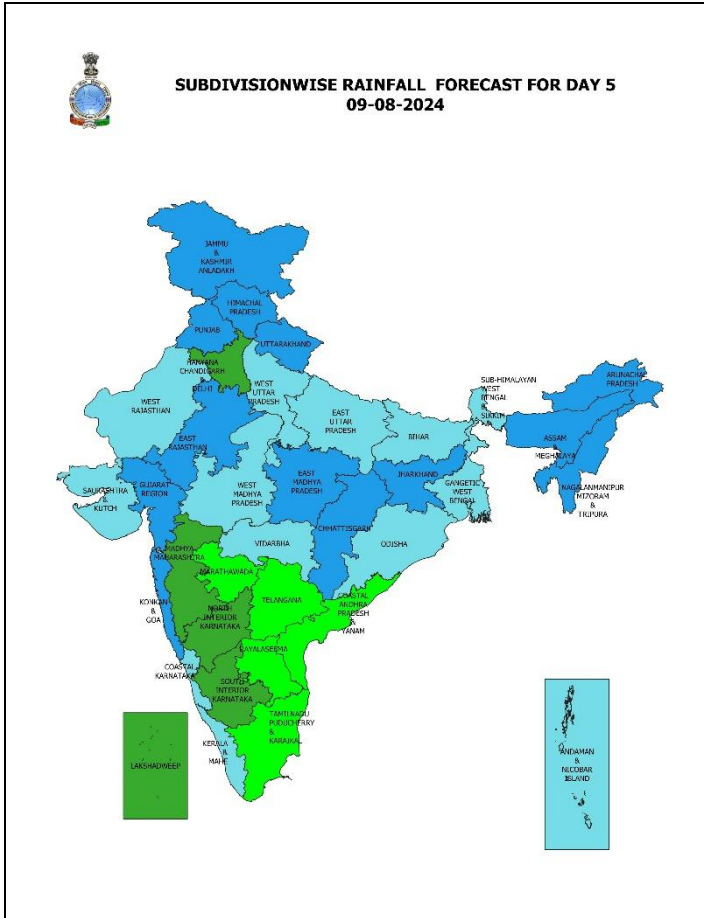
07 August (Day 3):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Uttarakhand & Gangetic West Bengal; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Haryana-Chandigarh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Bihar, Jharkhand, Rajasthan, Uttar Pradesh and Madhya Pradesh.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea, many parts of eastcentral and westcentral Arabian sea, northern parts of southwest Arabian sea, along and off Gujrat coast, gulf of Mannar, off Sri Lanka coast, southwest and adjoining southeast bob, many parts of central bob and few southern parts of northwest bob. **squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, along & off Somalia, Yemen & Oman coasts. Fishermen are advised not to venture into these areas.



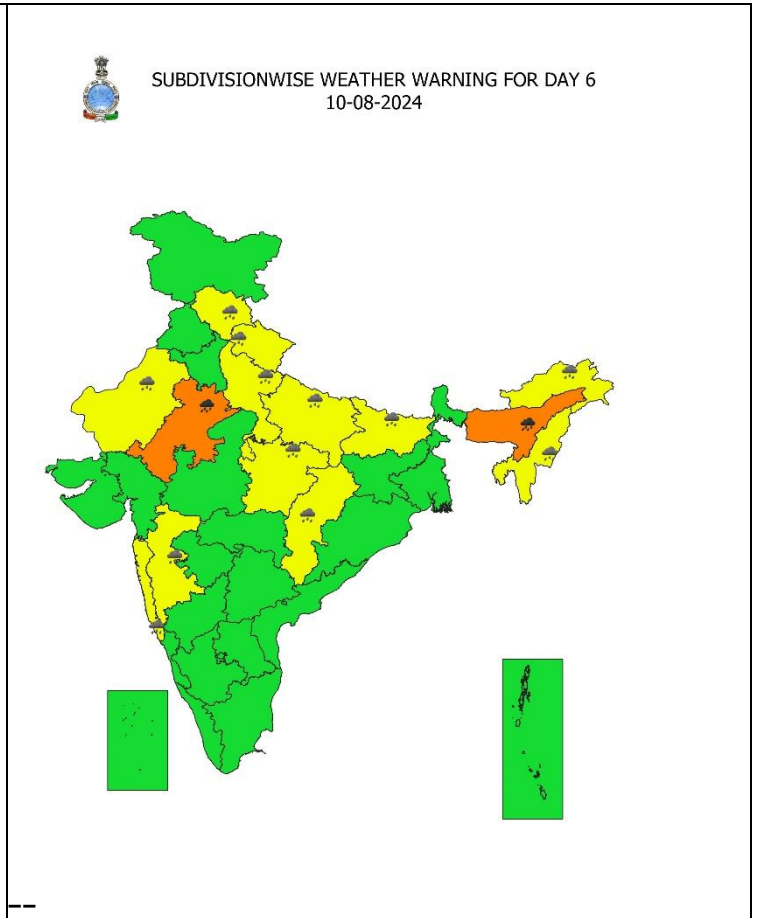
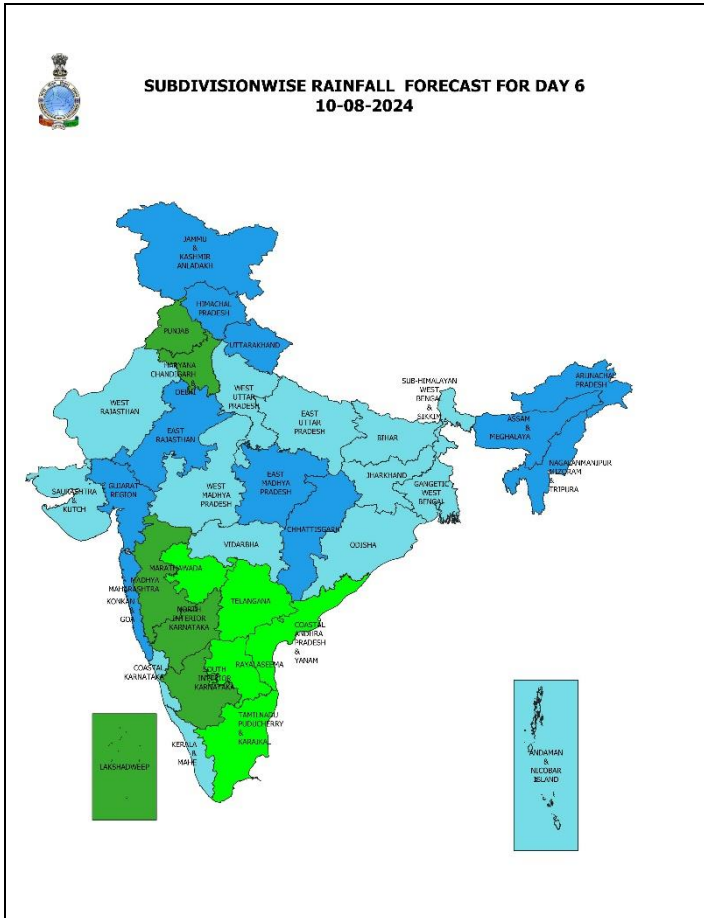
08 August (Day 4):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Arunachal Pradesh; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Madhya Maharashtra.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea, many parts of eastcentral and westcentral Arabian sea, northern parts of southwest Arabian sea, along and off Gujrat coast, gulf of Mannar, off Sri Lanka coast, southwest and adjoining southeast bob, many parts of central bob and few southern parts of northwest bob. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, along & off Somalia, Yemen & Oman coasts. Fishermen are advised not to venture into these areas.



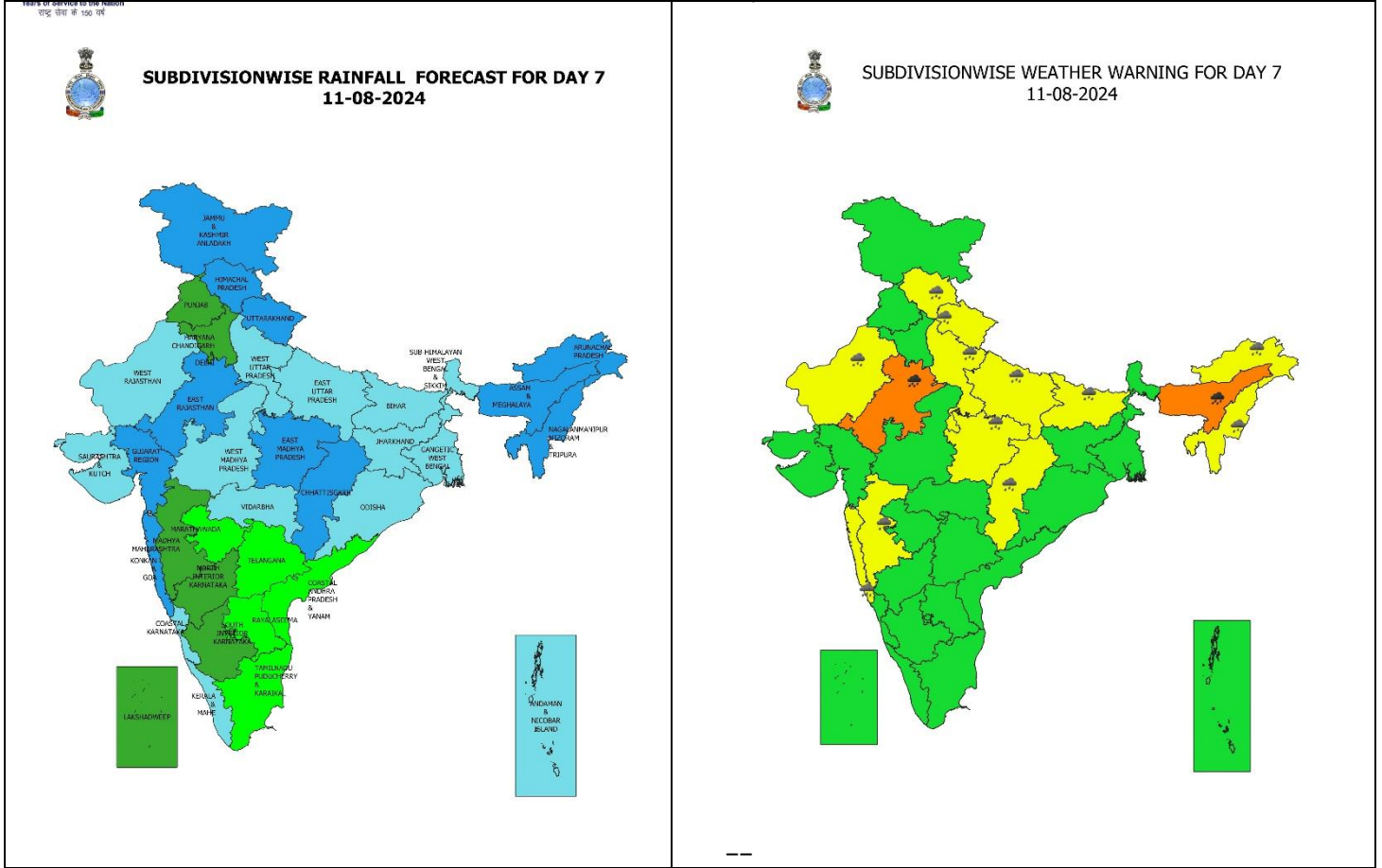
09 August (Day 5):

❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over East Rajasthan, Arunachal Pradesh and Assam & Meghalaya; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Madhya Maharashtra.



10 August (Day 6):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over East Rajasthan; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Madhya Maharashtra.



11 August (Day 7):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over East Rajasthan; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Madhya Maharashtra.

Weather Outlook for subsequent 3 days (During 12th August - 14th August, 2024)

- ❖ Fairly widespread to widespread rainfall likely over most parts of the country except Tamil Nadu, Puducherry & Karaikal and Rayalaseema where isolated to scattered rainfall likely.

- Action may be taken based on **ORANGE AND RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

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IMPACT due to

- **Isolated very heavy rainfall also likely over Gujarat Region on 05th, West Rajasthan during 05th-06th, Assam & Meghalaya on 05th, 09th, 10th & 11th, Nagaland, Manipur, Mizoram & Tripura on 05th; Uttarakhand on 06th & 07th, Arunachal Pradesh during 07th-09th, East Rajasthan on 09th & 10th, Sub-Himalayan West Bengal & Sikkim on 05th & 06th, Madhya Maharashtra on 05th August.**
- **Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Uttarakhand, East Rajasthan, West Rajasthan, East Madhya Pradesh and West Madhya Pradesh, Gujarat Region and Konkan & Goa Met Sub-Divisions Met Sub-divisions on 04th & 05th August. (Annexure-1)**
- ✓ 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 kutch roads.
- ✓ Possibilities of damage to vulnerable structure.
- ✓ Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- ✓ 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 Heavy Rainfall likely over various parts of the country

- ✓ Drain out excess water from rice, soybean, maize, cotton, sugarcane, pigeon pea, black gram, green gram, vegetables and orchards in Madhya Pradesh; rice, maize, green gram, black gram, pigeon pea and vegetables in Chhattisgarh; rice nurseries, maize, jute, ginger, vegetables and orchards in Jharkhand; rice, sugarcane, cowpea, cluster bean, vegetables and orchards in South Gujarat; pearl millet, groundnut, cotton, cluster bean, green gram, black gram, sesame, soybean, moth bean and orchards in Rajasthan; rice and finger millet in Konkan and ghat areas of Madhya Maharashtra.
- ✓ Make provision for draining out excess water from crop fields to avoid water stagnation in North Eastern states, Sub-Himalayan West Bengal, Himachal Pradesh, Uttarakhand, Gujarat region, Tamil Nadu, Kerala, Coastal Karnataka and South Interior Karnataka.
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.

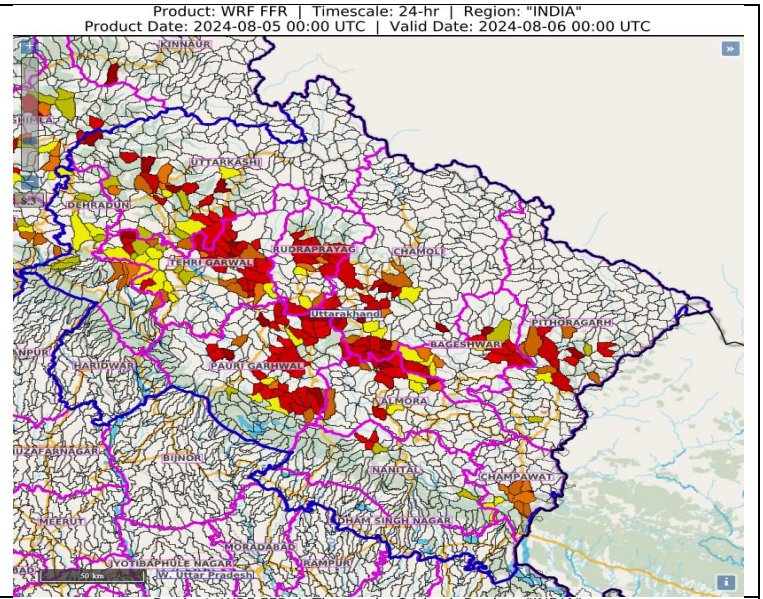
FLASH FLOOD GUIDANCE:

Annexure-I

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 06-08-2024 :

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

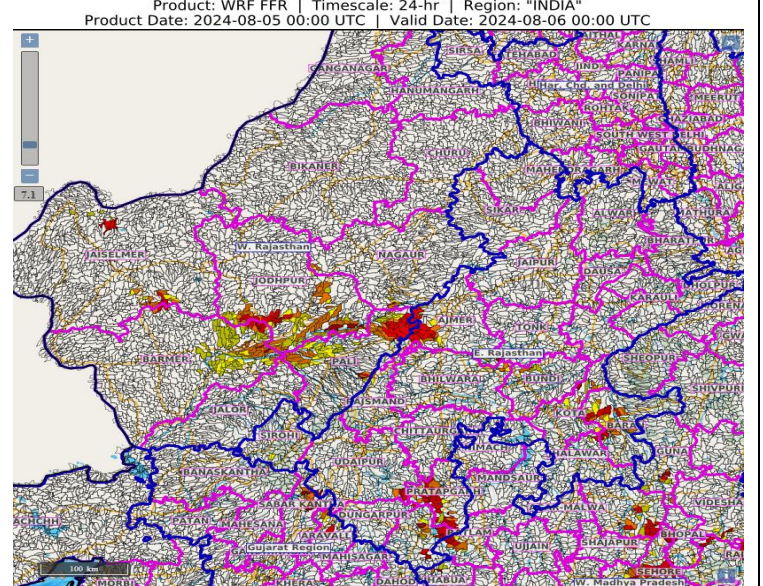
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 06-08-2024 :

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

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 06-08-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of **Gujarat Region** and **Konkan & Goa** Met Sub-divisions during next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.

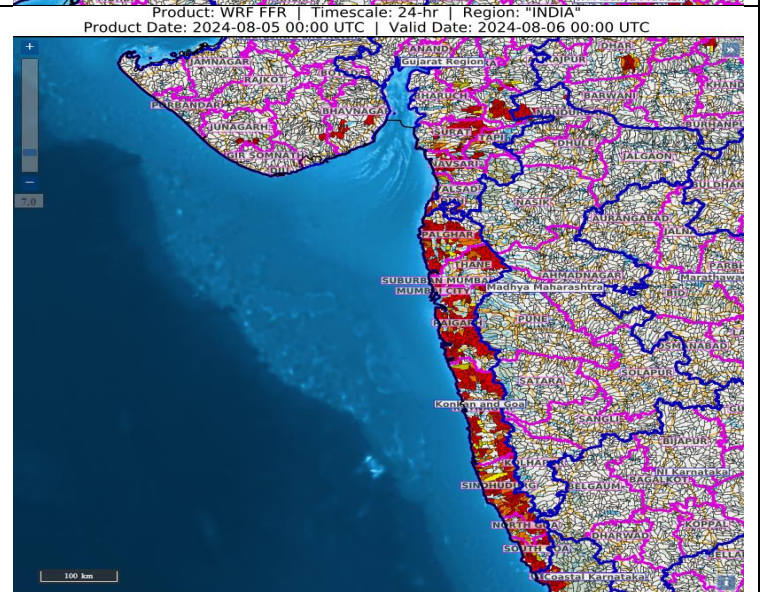


Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

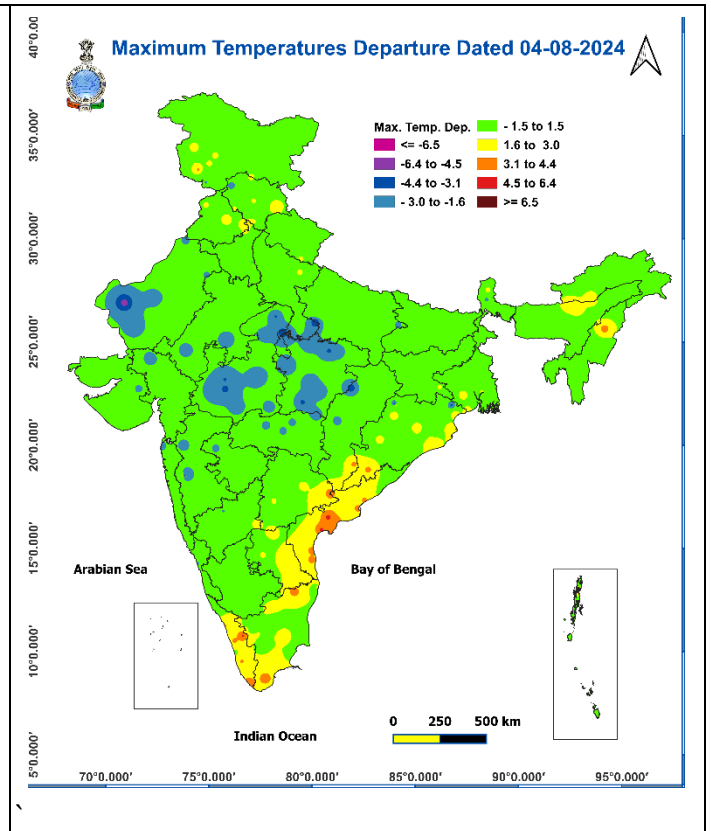
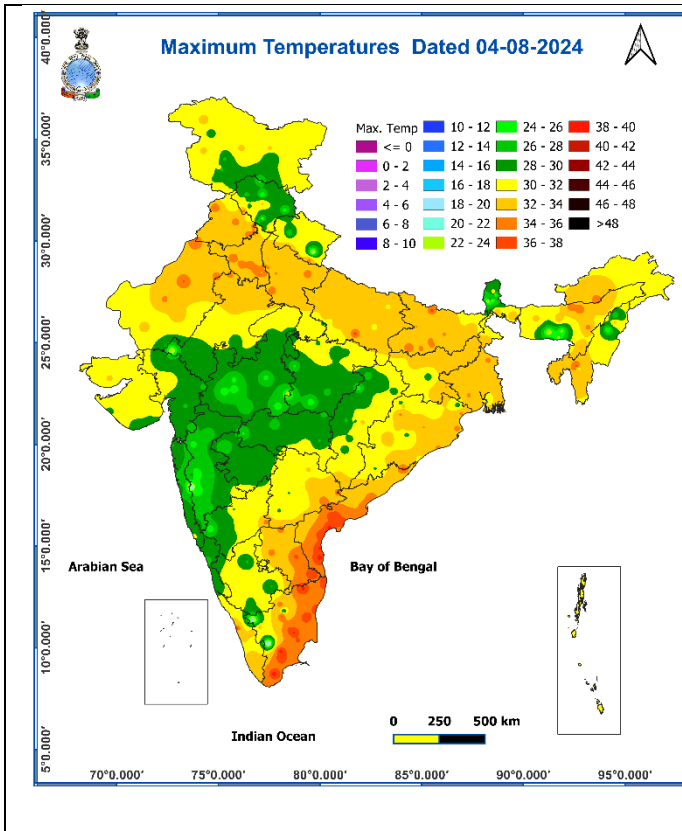


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

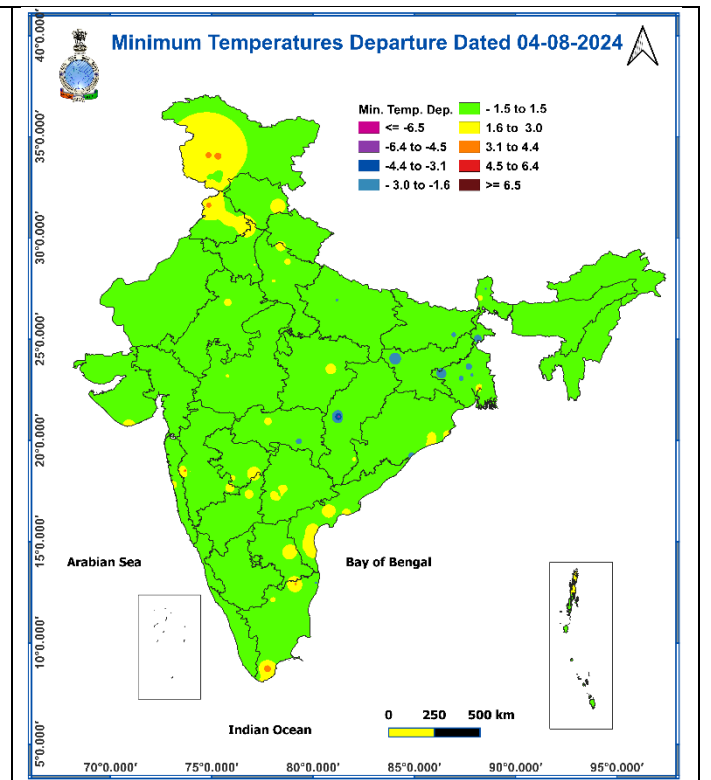
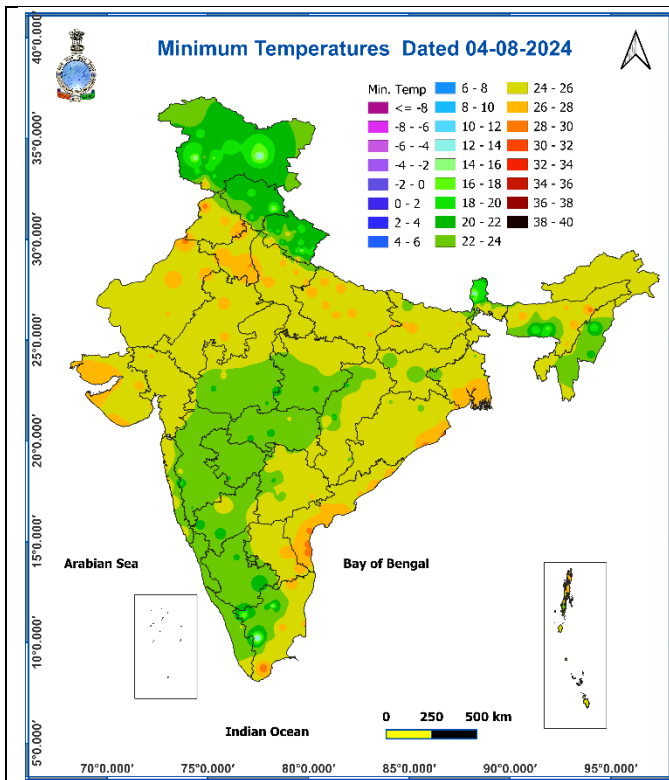
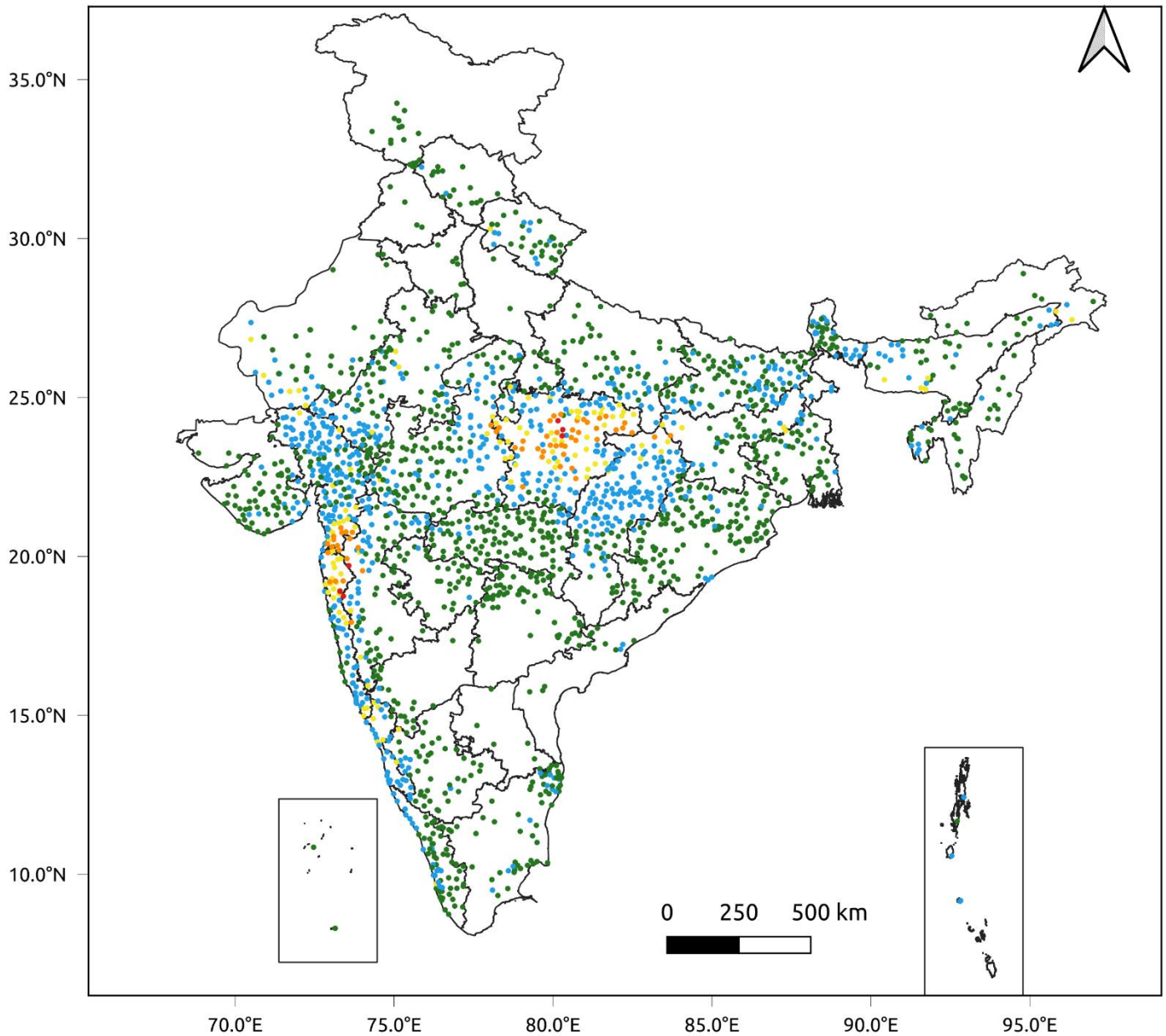


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 3-8-2024 to 0830 IST of 4-8-2024

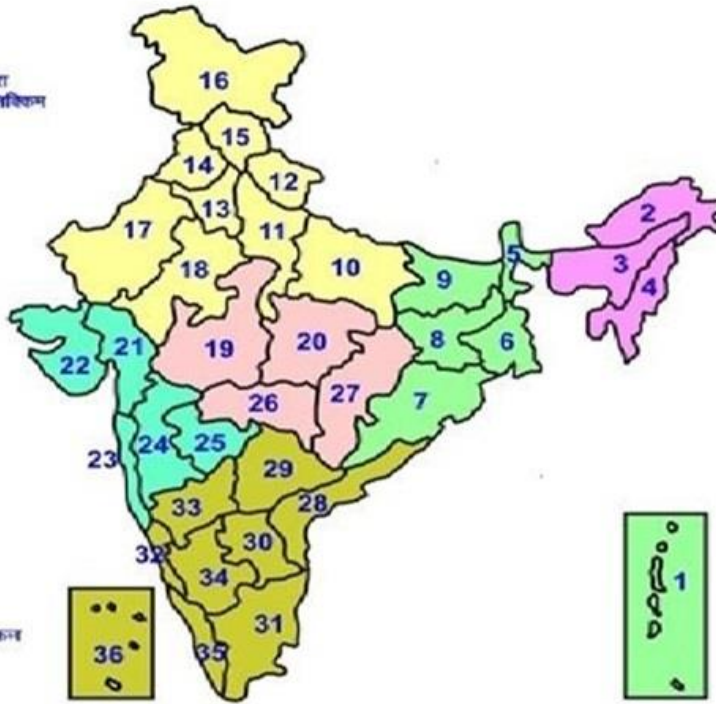


Legends

- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

LEGENDS

- 1 अंडमन और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 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 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 उत्तर आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 दक्षिण तेलंगाना
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 उत्तरी कर्नाटक
- 33 अंतरीक उत्तरी कर्नाटक
- 34 अंतरीक 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. Odisha
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

* Red colour warning does not mean "Red Alert", Red colour 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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(Service to the Nation since 1875)

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



Rain/ Snow *

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



Heat Wave

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°C to 6.4°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 $\geq 37^\circ\text{C}$



Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

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



Cold Wave

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°C to -6.4°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 $\leq 15^\circ\text{C}$



Cold Day

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°C to -6.4°C .

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



Fog

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



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

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



Sea State

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



Cyclone

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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