

Monday, August 5, 2024
Time of Issue: 2000 hours IST
(NIGHT)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems:

- ✓ The **depression** over Northeast Rajasthan and neighbourhood moved west-northwestwards with a speed of 30 kmph during past 6 hours and lay centered at 1730 hours IST of today, the 5th August over northwest Rajasthan near latitude 27.6°N and longitude 73.5°E, about 50 km south-southeast of Bikaner (Rajasthan), 120 km east-northeast of Phalodi (Rajasthan), 150 km north-northeast of Jodhpur (Rajasthan) and 270 km east-northeast of Jaisalmer (Rajasthan). It is likely to continue to move west-northwestwards across Northwest Rajasthan and weaken into a well marked low pressure area during next 12 hours.
- ✓ An east-west trough runs from the depression over northwest to north Odisha in lower & middle tropospheric levels tilting southwards with height.
- ✓ 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, Punjab, Haryana-Chandigarh-Delhi during the week.
- ✓ Isolated **extremely heavy rainfall** very likely over West Rajasthan on 05th August.
- ✓ Isolated **very heavy rainfall** also likely over East Rajasthan on 05th, 08th & 09th; West Rajasthan on 06th, Himachal Pradesh on 07th and Uttarakhand on 06th, 07th, 09th & 10th August.
- ✓ Isolated **heavy rainfall** very likely over Jammu-Kashmir on 06th, 07th, 10th & 11th; Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Rajasthan during 05th -11th, Haryana-Chandigarh during 06th-08th, Punjab during 05th-07th; West Uttar Pradesh on 06th & 07th 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.
- ✓ **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-09th, East Madhya Pradesh on 07th & 08th, Chhattisgarh during 05th-07th; Konkan & Goa during 05th -10th, Madhya Maharashtra, Gujarat Region on during 05th-09th, Saurashtra & Kutch on 05th 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.
- ✓ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 05th-10th; Sub-Himalayan West Bengal & Sikkim on 05th & 06th August and Odisha on 07th August.
- ✓ Isolated **heavy rainfall** very likely over Bihar, Odisha during 05th-08th; Jharkhand on 06th & 07th; Sub-Himalayan West Bengal & Sikkim 07th & 08th, Gangetic West Bengal on 06th August.

❖ South Peninsular India:

- ✓ Scattered to fairly widespread light to moderate rainfall over Kerala & Mahe, Lakshadweep, Karnataka and isolated to scattered rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema during next 5 days.
- ✓ **Heavy rainfall** very likely at isolated places over Tamil Nadu on 05th 7 06th; Kerala and Coastal Karnataka on 05th August.

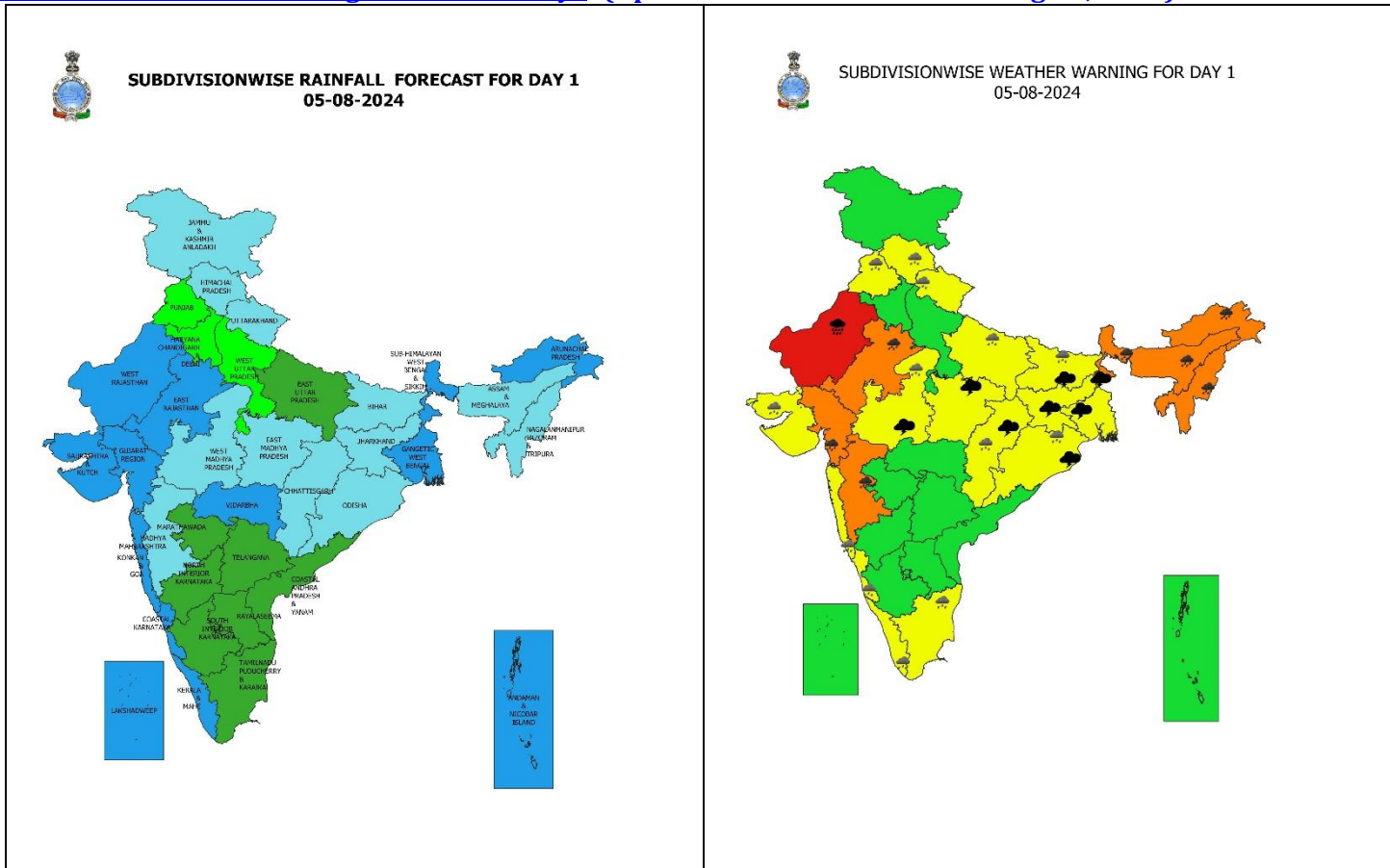
Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at most places** over West Rajasthan, Konkan & Goa, Andaman & Nicobar Islands; **at many places** over East Rajasthan, Lakshadweep, Sub-Himalayan West Bengal & Sikkim; **at a few places** over Gujarat state, Madhya Maharashtra, Coastal Karnataka, Interior Karnataka, Gangetic West Bengal, Assam & Meghalaya, Chhattisgarh; **at isolated places** over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Odisha, Bihar, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Vidarbha.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of today): Heavy to very heavy rainfall with extremely heavy rainfall at isolated places over West Rajasthan; **Heavy to very heavy rainfall** at isolated places over East Rajasthan.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of today): (in cm): **West Rajasthan:** Pali 25, Balotra 19, Rohat 13, Jalore 10, Ahore 9, Fatehgarh 7, Phalodi 4, Jodhpur 3, Jaisalmer 2; **East Rajasthan:** Nasirabad 16, Pisangan 11, Ajmer 10, Srinagar 10, Pushkar 8, Mangliawas 8, Beawar 7; **Coastal Andhra Pradesh & Yanam:** Kalingapattanam 6; **Odisha:** Bhubaneshwar 4; **Bihar:** Patna 3; **West Madhya Pradesh:** Rajgarh 3; **Gangetic West Bengal:** Panagarh 3; **Chhattisgarh:** Pendra Road 2; **Assam & Meghalaya:** Cherrapunji 2, Golpara 2; **Madhya Maharashtra:** Mahabaleshwar 2, **East Madhya Pradesh:** Damoh 2.
- ❖ **Minimum Temperature Departures (as on 05-08-2024):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Chhattisgarh, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at a few places over Punjab; at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Himachal Pradesh, Haryana-Chandigarh-Delhi, West Rajasthan, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema and Andaman & Nicobar Islands. These are **below normal (-1.6°C to -3.0°C)** at isolated places over isolated places Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and are **near normal** over rest parts of the country. Today, **the lowest minimum temperature** of **18.0°C** is reported at **Valsad (Gujarat Region)** over the plains of the country. (Fig.4)
- ❖ **Maximum Temperature Departures (as on 05-08-2024):** Maximum temperatures are **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 a few places over East Madhya Pradesh, Vidarbha; at isolated places over Uttar Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka, Marathwada, Himachal Pradesh, Punjab, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad. These are **Appreciably below normal (-3.1°C to -5.0°C)** at isolated places Rajasthan, Assam & Meghalaya; **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana-Chandigarh-Delhi, Gujarat state, Rayalaseema and **near normal** over rest parts of the country. Today, **the highest Maximum Temperature** of **38.9°C** is reported at **Ongole (Coastal Andhra Pradesh)** over the country. (Fig. 2)

Meteorological Analysis (Based on 1730 hours IST)

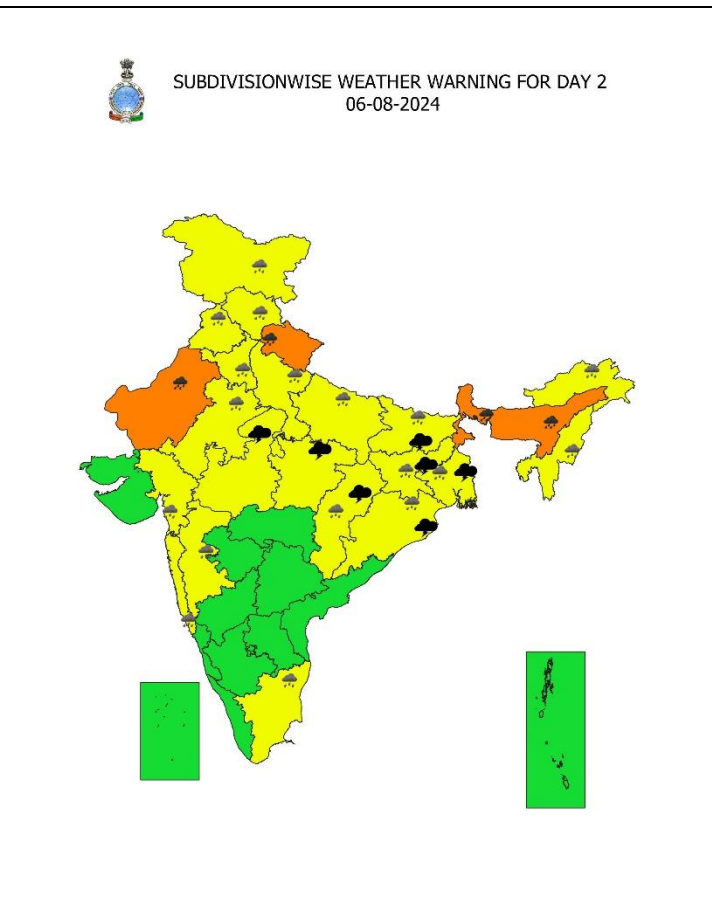
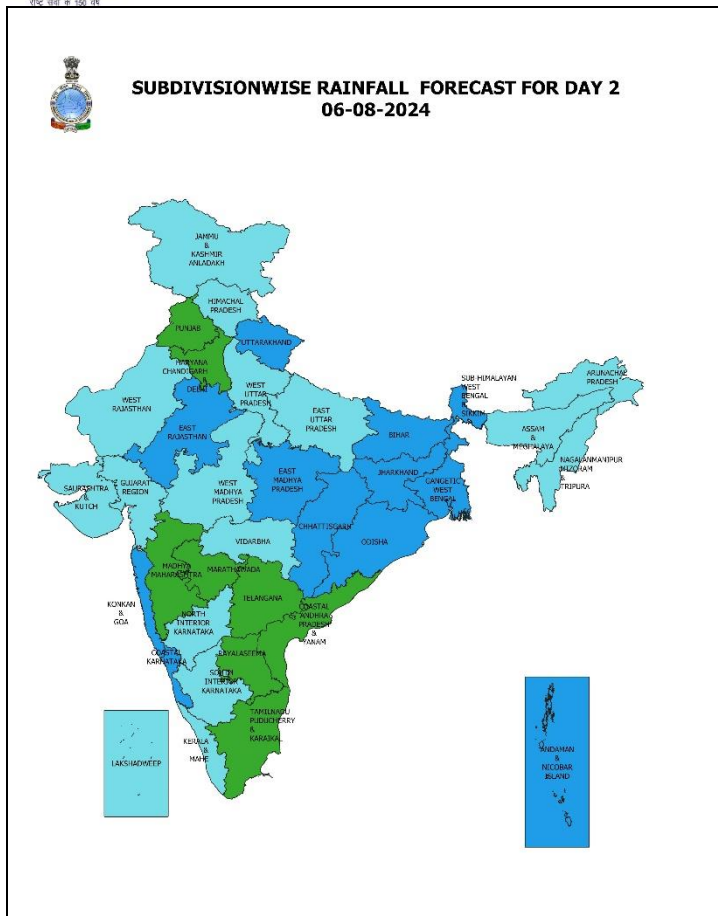
- ❖ The **depression** over Northeast Rajasthan and neighbourhood moved west-northwestwards with a speed of 30 kmph during past 6 hours and lay centered at 1730 hours IST of today, the 5th August over northwest Rajasthan near latitude 27.6°N and longitude 73.5°E, about 50 km south-southeast of Bikaner (Rajasthan), 120 km east-northeast of Phalodi (Rajasthan), 150 km north-northeast of Jodhpur (Rajasthan) and 270 km east-northeast of Jaisalmer (Rajasthan). It is likely to continue to move west-northwestwards across Northwest Rajasthan and weaken into a well marked low pressure area during next 12 hours.
- ❖ The **Monsoon trough** at mean sea level now passes through center of the depression over northwest Rajasthan, Churk, Jamshedpur, Contai and thence southeastwards to eastcentral Bay of Bengal.
- ❖ The east-west **trough** from the above mentioned **depression** over northwest Rajasthan to north Odisha between 0.9 & 5.8 km above mean sea level tilting southwards with height persists.
- ❖ The **cyclonic circulation** over northeast Assam between 1.5 & 4.5 km above mean sea level persists.
- ❖ The **off-shore trough** at mean sea level along south Gujarat to north Kerala coast persists.

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



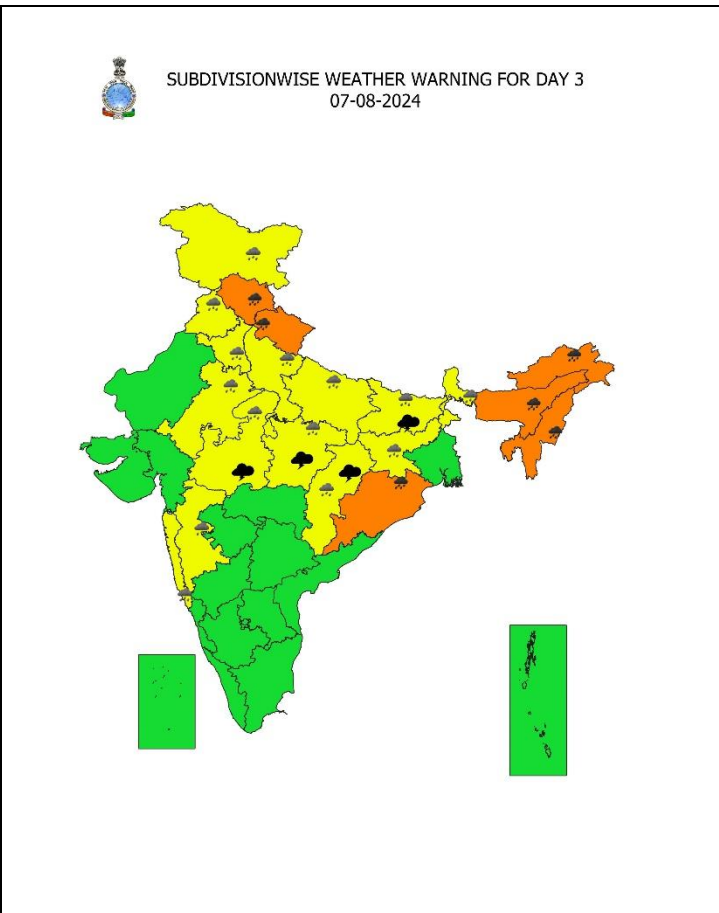
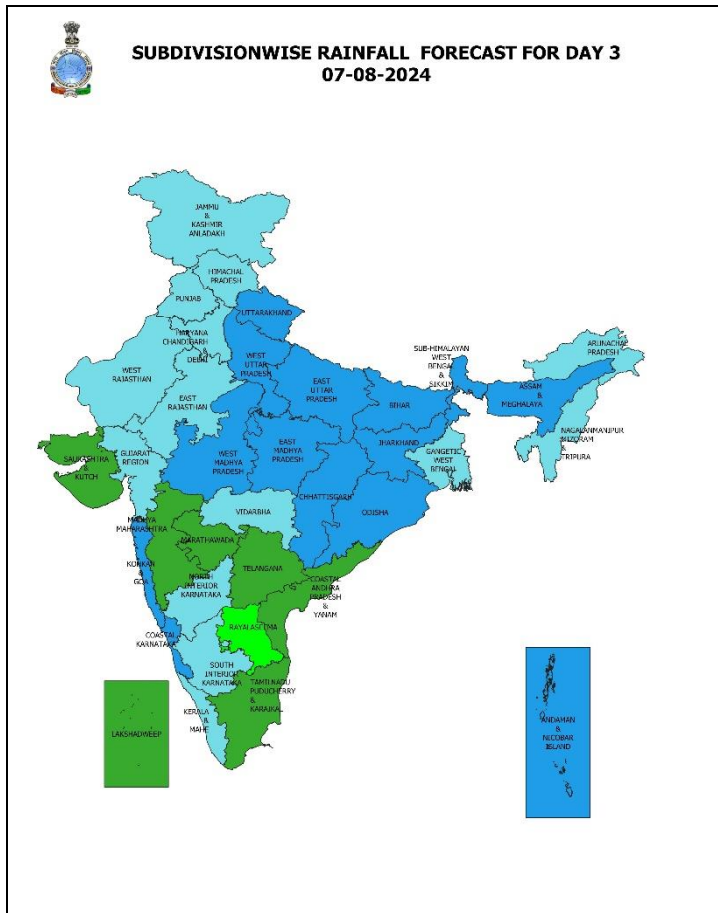
05 August (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls (> 20 cm)** very likely at isolated places over West Rajasthan; **Heavy to very heavy rainfall (≥ 12 cm)** very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, East Rajasthan, Gujarat Region and Madhya Maharashtra; **Heavy rainfall (≥ 7 cm)** at isolated places over Odisha, Bihar, East Uttar Pradesh, Uttarakhand, Punjab, Himachal Pradesh, West Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Gangetic West Bengal, Odisha and Bihar.
- ❖ **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 south Gujrat and north Maharashtra coasts, gulf of Mannar, central parts of Bay of Bengal. **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.



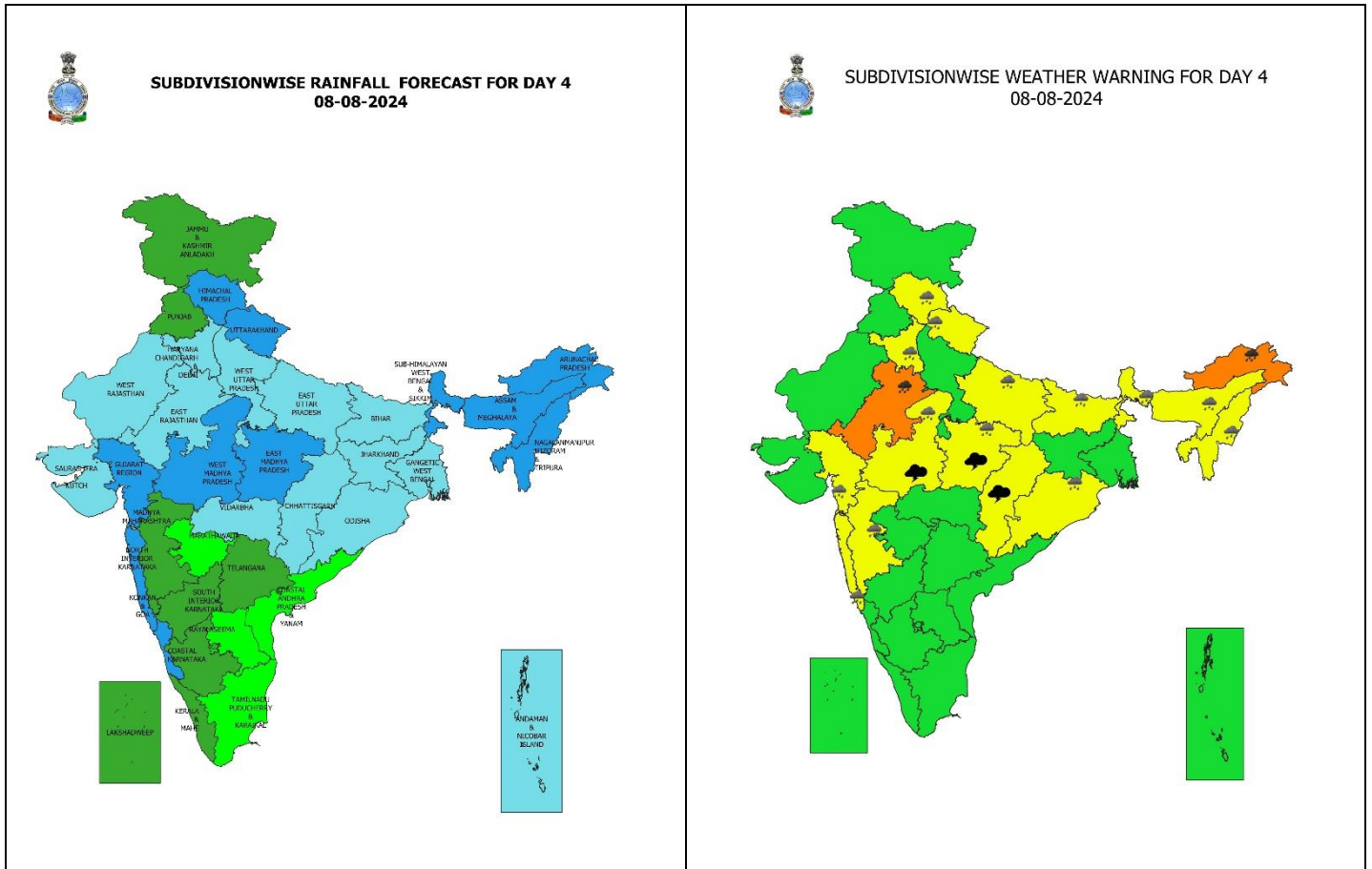
06 August (Day 2):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** very likely at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Uttarakhand and West Rajasthan; **Heavy rainfall (≥ 7 cm) at isolated places over** Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Jharkhand, Uttar Pradesh, Haryana-Chandigarh, Punjab, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Chhattisgarh and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Odisha and Bihar.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** 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, along and off south Gujarat coast, gulf of Mannar, off Sri Lanka coast, over many parts of central and southwest Bay of Bengal. **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.



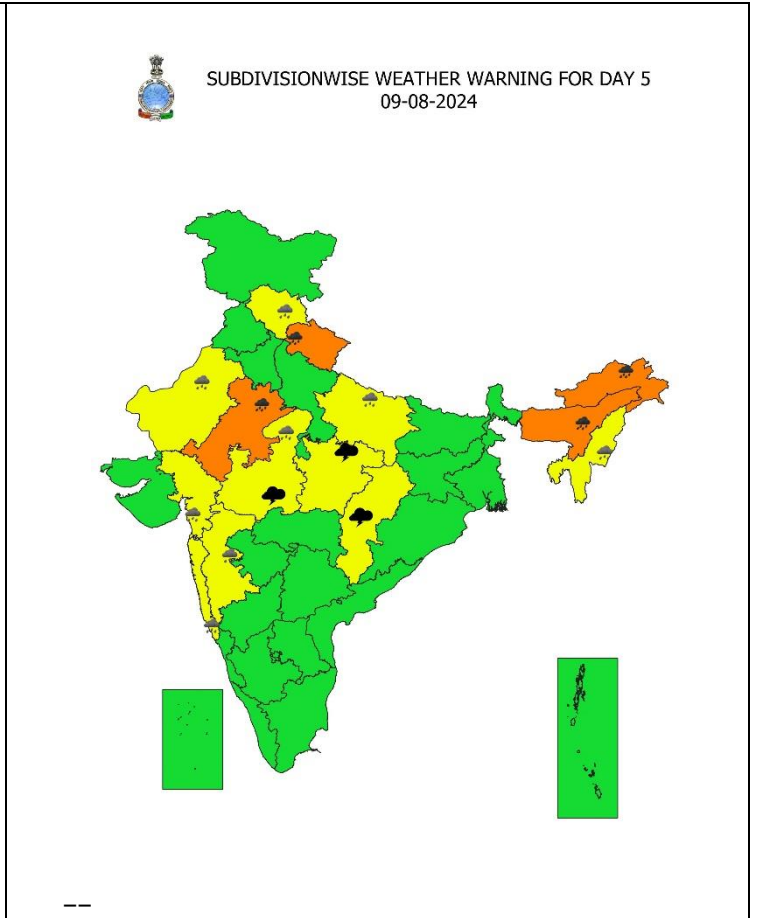
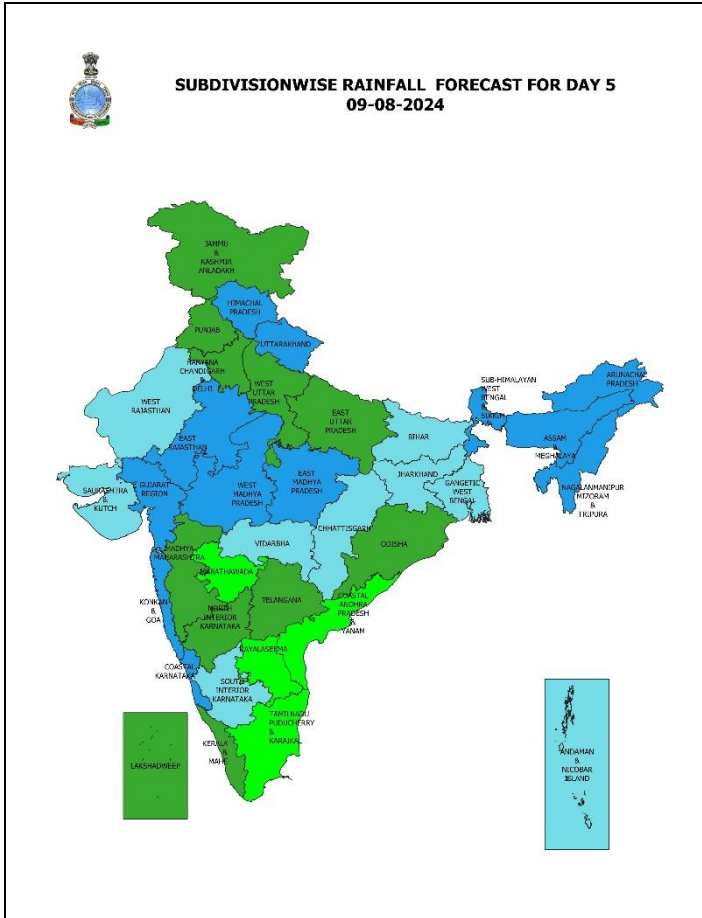
07 August (Day 3):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha and Himachal Pradesh; **Heavy rainfall (≥ 7 cm)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Uttar Pradesh, Uttarakhand, Haryana-Chandigarh, Punjab, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra and Chhattisgarh.
- ❖ **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 Bay of Bengal, many parts of central Bay of Bengal and few southern parts of northwest Bay of Bengal. **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.



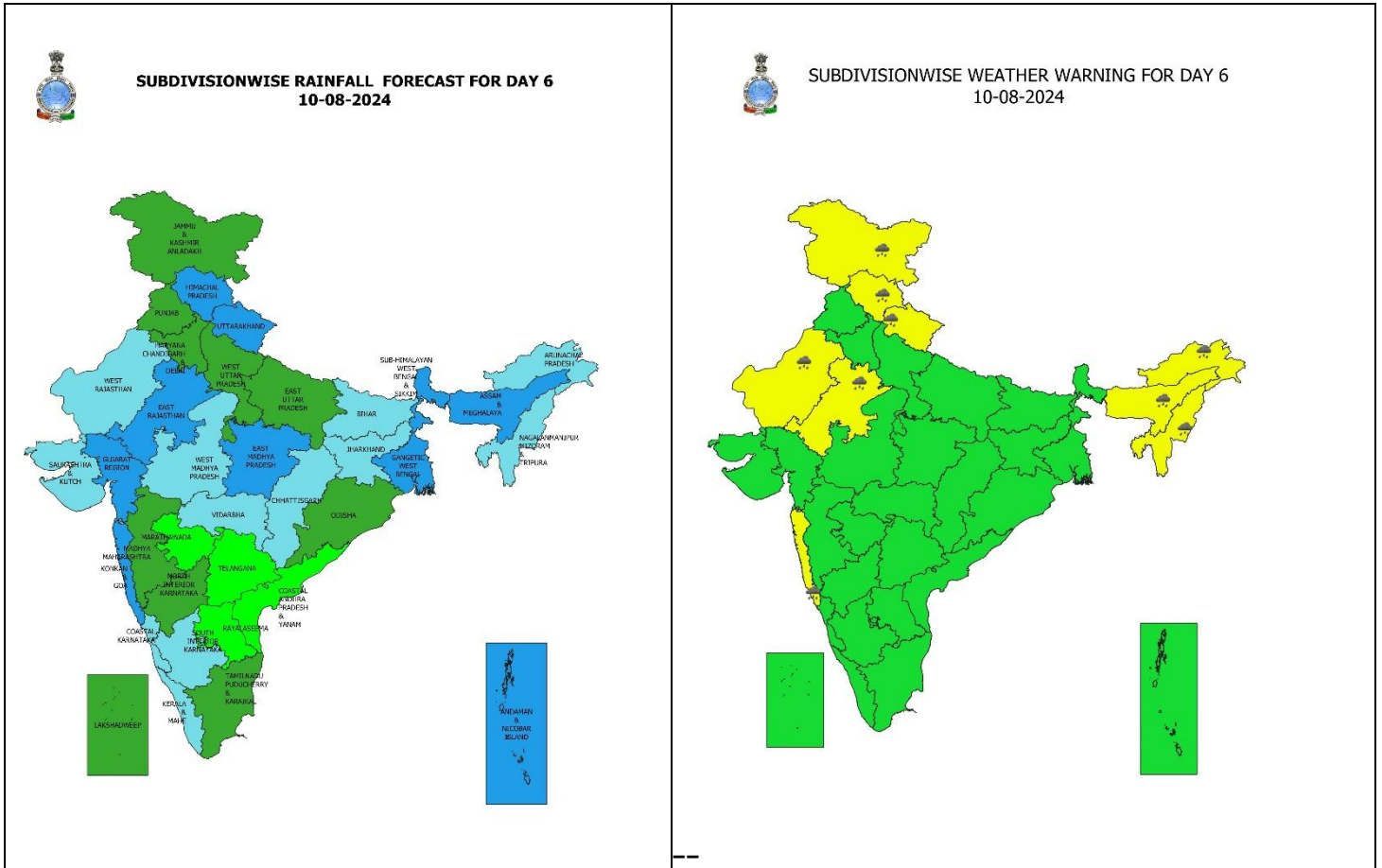
08 August (Day 4):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Arunachal Pradesh and East Rajasthan; **Heavy rainfall (≥ 7 cm)** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Odisha, East Uttar Pradesh, Uttarakhand, Haryana-Chandigarh, Himachal Pradesh, Madhya Pradesh, Gujarat Region, 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 Bay of Bengal, many parts of central Bay of Bengal and few southern parts of northwest Bay of Bengal. **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.



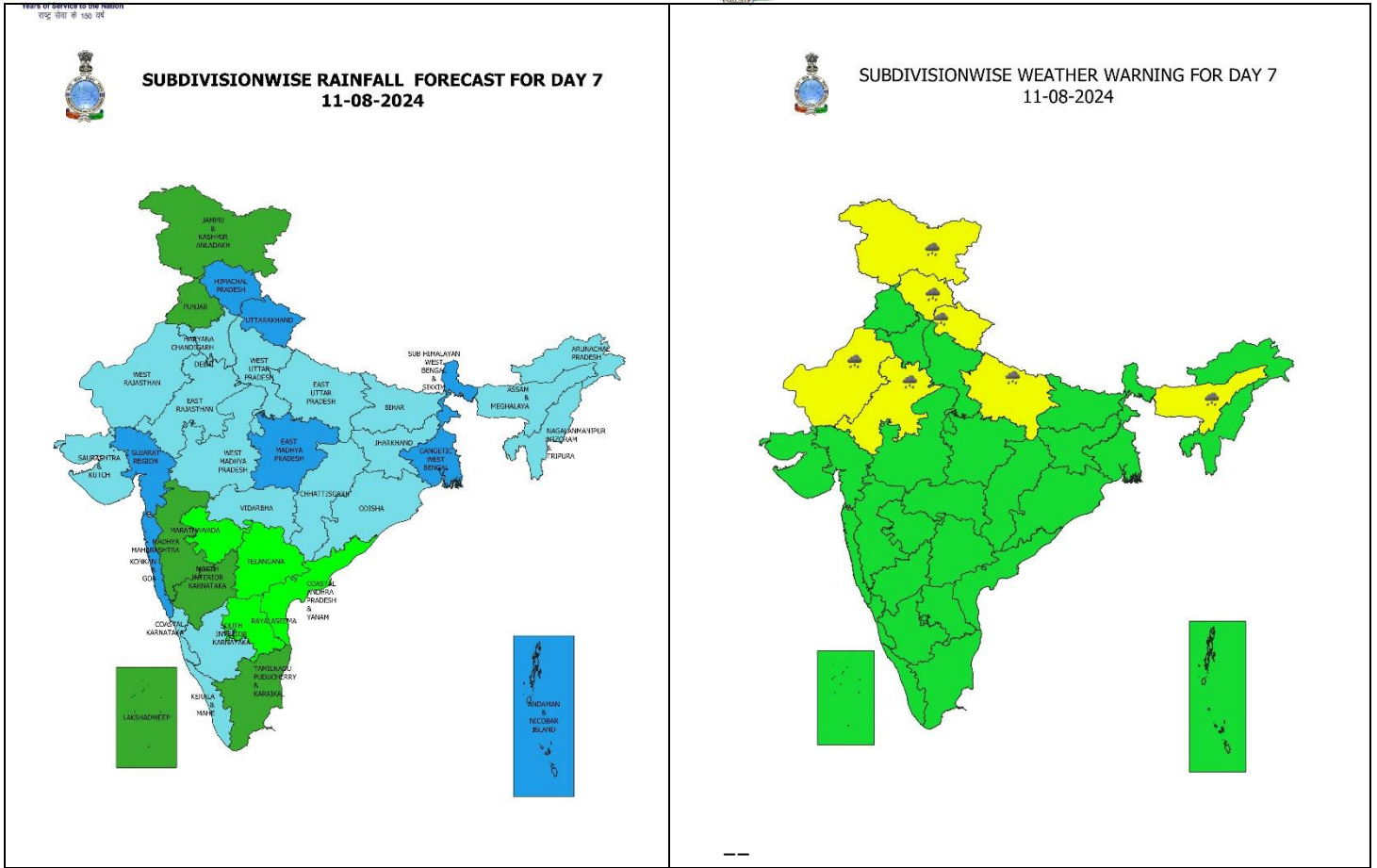
09 August (Day 5):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Uttarakhand and East Rajasthan; **Heavy rainfall (≥ 7 cm)** at isolated places over Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Himachal Pradesh, West Rajasthan, West Madhya Pradesh, Gujarat Region, 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, few parts of eastcentral Arabian sea, along and off Gujarat coast, gulf of Mannar, off Sri Lanka coast, southwest and adjoining southeast Bay of Bengal, few parts of central Bay of Bengal. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over few parts of northeast Arabian sea and many parts of central Arabian sea & adjoining areas of southwest Arabian sea, along & off Somalia, Yemen & Oman coasts. Fishermen are advised not to venture into these areas.



10 August (Day 6):

- ❖ **Heavy rainfall (≥ 7 cm)** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan and Konkan & Goa.



11 August (Day 7):

❖ **Heavy rainfall (≥ 7 cm)** at isolated places over Assam & Meghalaya, East Uttar Pradesh, Uttarakhand, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Rajasthan.

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 Marathwada 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.

* 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
(Service to the Nation since 1875)

IMPACT due to

- Isolated extremely heavy rainfall very likely over West Rajasthan on 05th August.
- Isolated very heavy rainfall also likely over Gujarat Region, Madhya Maharashtra on 05th; East Rajasthan on 05th, 08th & 09th; West Rajasthan on 06th, Himachal Pradesh on 07th and Uttarakhand on 06th, 07th, 09th & 10th August.
- **Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of West Rajasthan, Konkan & Goa, Himachal Pradesh, Uttarakhand, Southern parts of Assam & Meghalaya and NMMT Met Sub-Divisions on 05th & 06th 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 kutchha 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, 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, Odisha, Bihar, Himachal Pradesh, Uttarakhand, Gujarat region, Tamil Nadu and Coastal Karnataka.
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.

24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 06-08-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of **Southern parts of Assam & Meghalaya** and **NMMT 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.

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Product Date: 2024-08-05 06:00 UTC | Valid Date: 2024-08-06 06:00 UTC

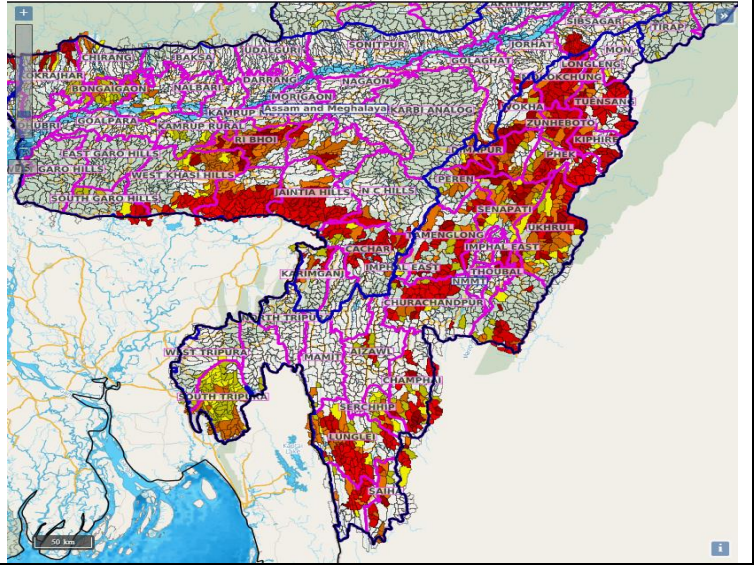


Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

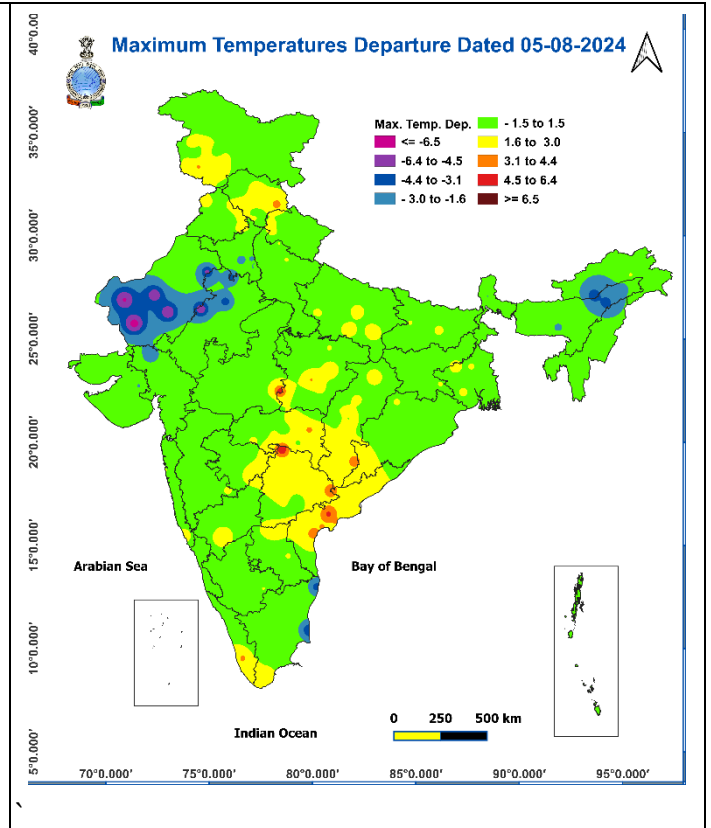
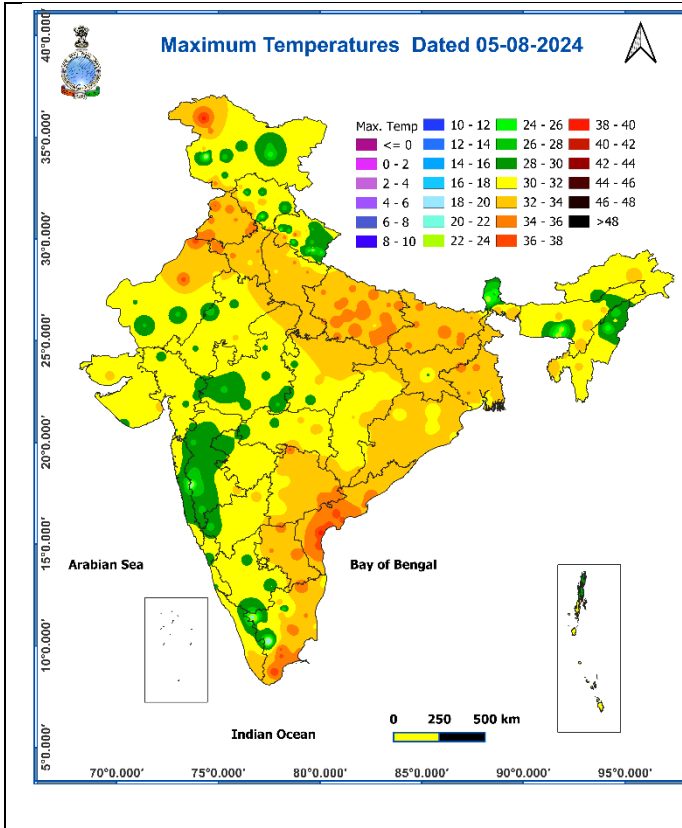


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

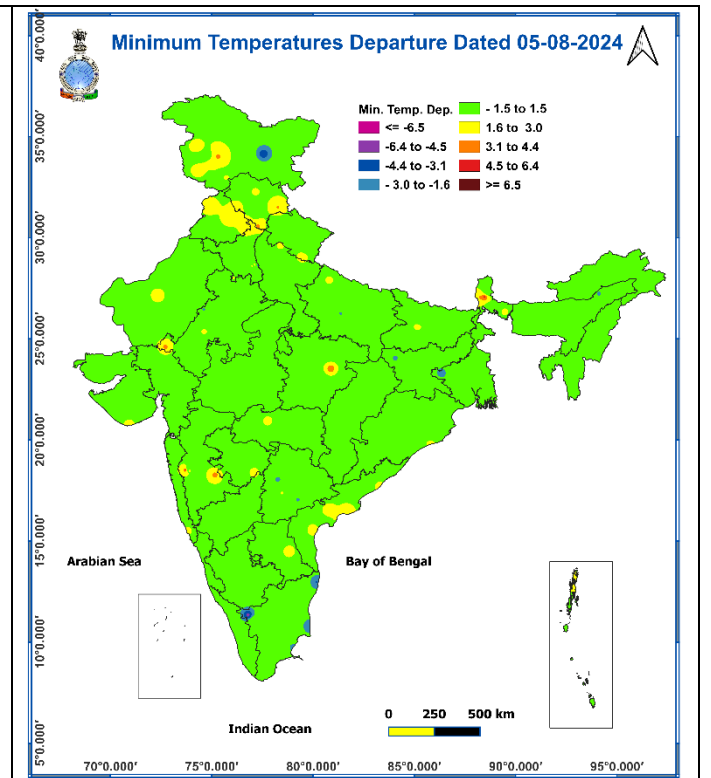
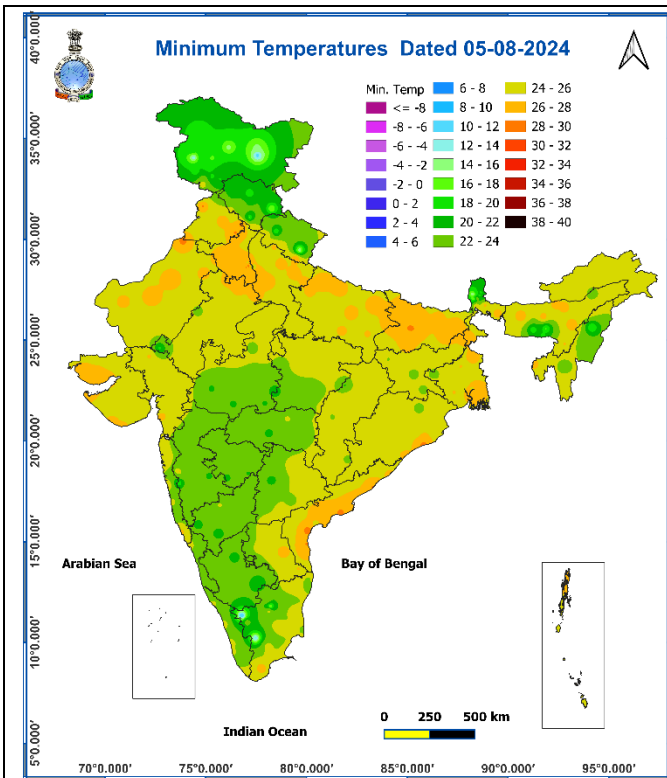
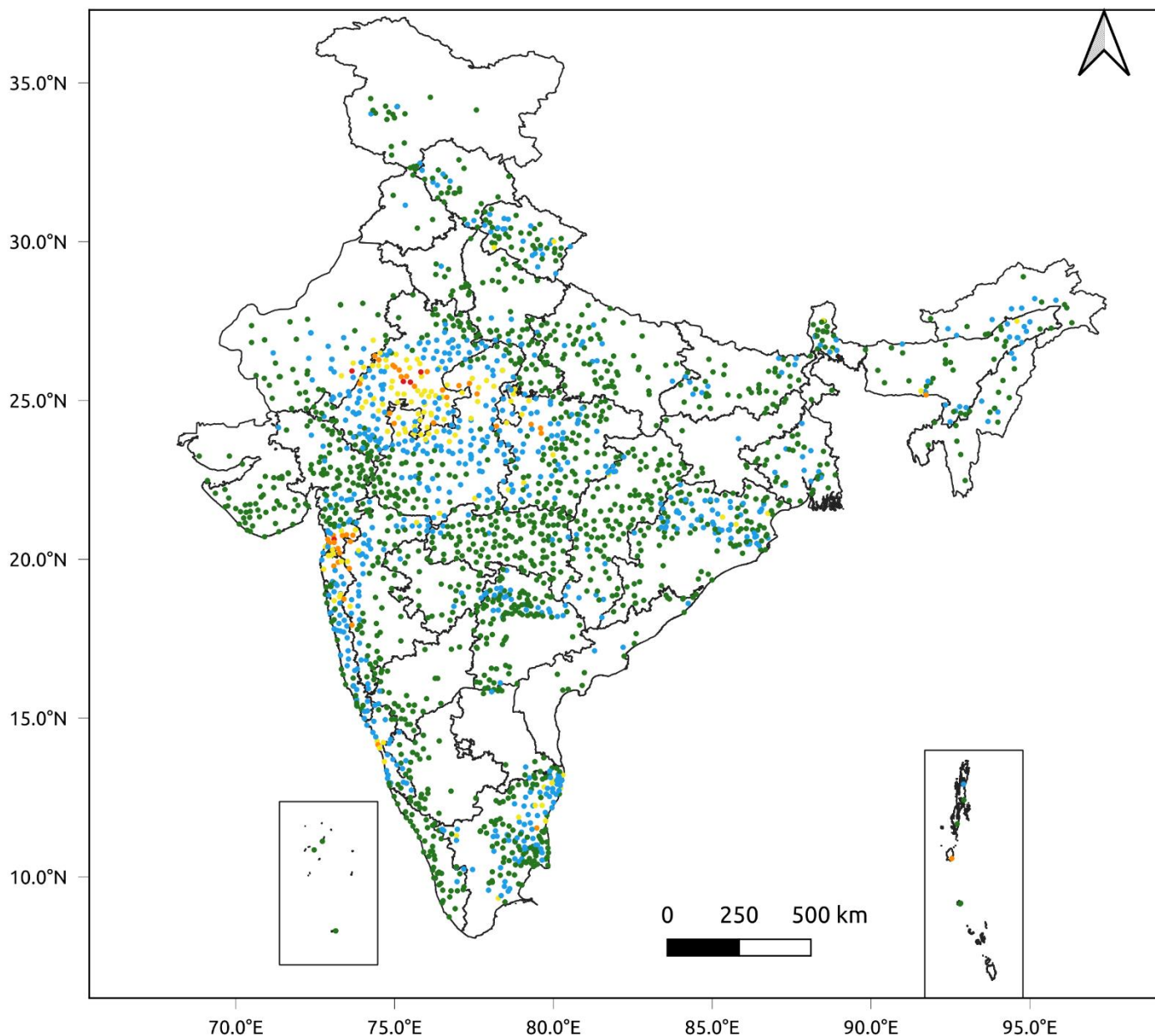


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 4-8-2024 to 0830 IST of 5-8-2024

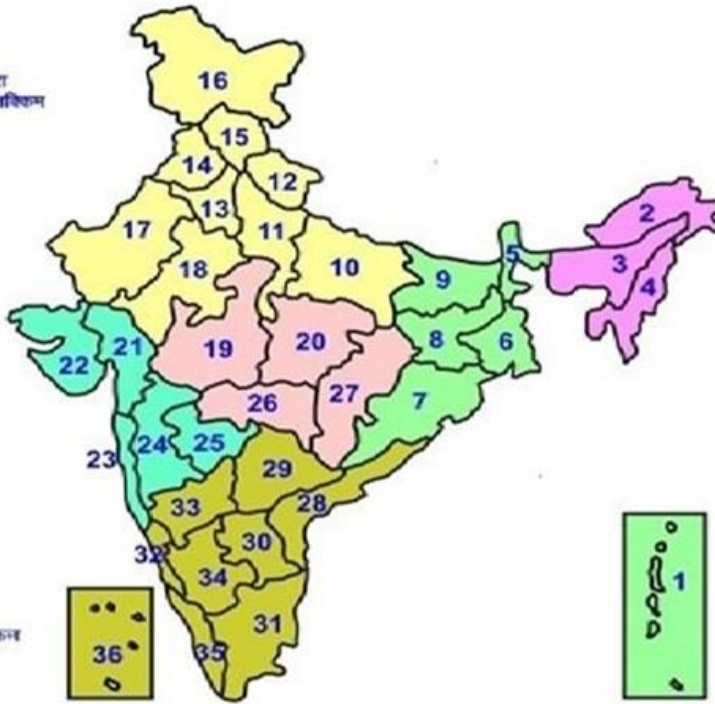


Legends

- 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 उत्तरीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 दक्षिण तटीय
- 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".
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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



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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