

Monday, May 27, 2024
Time of Issue: 0845 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ✓ Southwest Monsoon has further advanced into some more parts of Southwest Bay of Bengal, Central Bay of Bengal and Northeast Bay of Bengal yesterday, the 26th May, 2024.
- ❖ The Northern Limit of Monsoon passes through 05°N/60°E, 06°N/70°E, 7°N/75°E, 8°N/80°E, 13°N/84°E, 16°N/87°E, 18.5°N/89.5°E, 21°N/93°E.
- ❖ There are three cyclonic circulations in lower tropospheric levels, 1st over southwest Rajasthan, 2nd over northwest Uttar Pradesh and 3rd over northeast Assam. Under their influence:
- Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** likely over Kerala & Mahe, Lakshadweep during 27th-28th; Andaman & Nicobar Islands during 27th-30th; Sub-Himalayan West Bengal & Sikkim on 27th May and isolated to scattered light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Tamil Nadu, Puducherry & Karaikal, Telangana, Rayalaseema, Karnataka on 28th May.
- ✓ **Isolated heavy rainfall very likely over Kerala & Mahe on 29th & 30th May, 2024.**
- ✓ Isolated light rainfall accompanied with **thunderstorm; lightning & gusty winds (30-40 kmph)** very likely over Uttarakhand during 27th-30th May, 2024.
- ✓ **Strong surface wind** (speed 25-35 kmph) over Gujarat State on during 27th-30th May, 2024.

The Severe Cyclonic Storm "Remal" over Eastcentral Bay of Bengal:

The **Severe Cyclonic Storm "Remal" (pronounced as "Re-Mal")** over Coastal Bangladesh and adjoining Coastal West Bengal moved nearly northwards, with a speed of 15 kmph during past 06 hours, **weakened into a Cyclonic Storm** and lay centered at 0530 hrs IST of today, the 27th May, 2024 over the same region, near **latitude 22.5°N and longitude 89.3°E** about 150 km northeast of Sagar Islands (West Bengal), 110 km northwest of Khepupara (Bangladesh), 70 km northeast of Canning (West Bengal) and 30km west-southwest of Mongla (Bangladesh). The system is initially likely to move north-northeastwards, subsequently northeastwards and gradually weaken further.

Heavy Rainfall Warning:

- (a) **West Bengal:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places is likely over coastal districts of West Bengal and eastern districts of Gangetic West Bengal adjacent to Bangladesh on 27th May. The peak rainfall activity is likely till noon of 27th May.
Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places likely over eastern districts of Sub-Himalayan West Bengal on 27th and 28th May.
- (b) **Northeastern States:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is likely over Assam, Meghalaya, Arunachal Pradesh, Nagaland, Mizoram, Manipur & Tripura on 27th & 28th May. Isolated **extremely heavy rainfall** (≥ 20 cm) is also likely over Assam, Meghalaya on 27th & 28th May, Arunachal Pradesh on 28th May and Mizoram & Tripura on 27th May.

Fishermen Warning: Fishermen are advised not to venture into North Bay of Bengal along and off West Bengal and Bangladesh coasts on 27th May.

Maximum temperature observation:

Areas having maximum temperatures greater than 40°C: Yesterday, maximum temperatures were in the range of 47-49°C in most parts of Rajasthan; in the range of 44- 46°C in many places over Punjab, Haryana-Chandigarh-Delhi, in some parts of Madhya Pradesh, Vidarbha and in isolated pockets of Madhya Maharashtra, Telangana; in the range of 40- 44°C in some parts of Marathwada, Telangana, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Saurashtra & Kutch, Uttar Pradesh; in isolated pockets of Odisha, East Madhya Pradesh, Jharkhand, Bihar. These were above normal by 4-6°C over many parts of Rajasthan, Punjab, Haryana-Chandigarh-Delhi; in some parts of Jammu-Kashmir, Assam & Meghalaya and in isolated pockets of Himachal Pradesh, Uttarakhand, East Uttar Pradesh, West Madhya Pradesh, Gujarat state, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh.

Heat Wave, Warm Night and Hot & Humid weather warning for next 5 days:

- ❖ **Heat wave to severe heat wave conditions** very likely in many/most parts of Rajasthan; in some/many parts of Punjab, Haryana-Chandigarh-Delhi; in isolated/some parts of West Uttar Pradesh on 27th & 28th and gradual reduction thereafter.
- ❖ **Heat wave conditions** very likely in isolated pockets of Jammu division, Himachal Pradesh, East Uttar Pradesh during 27th-30th; East Madhya Pradesh on 27th & 28th; Chhattisgarh during 28th-30th; West Madhya Pradesh, Vidarbha during 27th-29th; Madhya Maharashtra, Marathwada and Gujarat state on 27th May, 2024.
- ❖ **Hot and humid weather** very likely to prevail over some parts of Gujarat state during 27th - 30th; Bihar on 27th May, 2024.
- ❖ **Warm night conditions** in isolated pockets very likely to prevail over Haryana-Chandigarh-Delhi during 27th - 30th; West Rajasthan during 27th - 29th, Uttar Pradesh and East Rajasthan on 27th & 28th and West Madhya Pradesh on 27th May, 2024.

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at a few places** over Gangetic West Bengal and Odisha and **at isolated places** over Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Madhya Maharashtra, East Rajasthan, Kerala & Mahe.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Mizoram:** Aizwal-3; **Kerala:** Kannur-3, Alapuzha-2, Thiruvananthapuram-1; **Gangetic West Bengal:** Contai-6, Digha-4, Haldia-3, Midnapore-2, Uluberia, Kolkata (Alipur), Diamond Harbour & Canning-1 each; **Telangana:** Mahaboobnagar-2, Nalgonda-1.
- ❖ **Maximum wind speed** recorded (from 0830 hours IST of yesterday to 0630 hours IST of today) (in knots): **Gangetic West Bengal:** Canning & South 24 pargana-42, Diamond Harbour- 37, Howrah & Nadia-35, Hugli-32; **Odisha:** Mayurbhanj-29, Puri-25; **Telangana:** Nizamabad-62, Diara-55, Medak-51, Ibrahimpatam-44, Nagireddypet-41, Ghatkesar-38.
- ❖ Yesterday, **Warm night conditions** observed in isolated pockets of Haryana, Rajasthan, Uttar Pradesh and East Madhya Pradesh.
- ❖ Yesterday, **heat wave to severe heat wave** conditions prevailed over most parts of Rajasthan; in some parts of Delhi. **Heat wave** conditions prevailed in some parts of Punjab, Haryana, interior Maharashtra and West Madhya Pradesh; in isolated pockets of Himachal Pradesh, Uttar Pradesh and East Madhya Pradesh. **Heat wave conditions** have been prevailing over Gujarat region since 15th and over Haryana-Chandigarh-Delhi and Rajasthan since 17th May, 2024.
- ❖ **Minimum Temperature Departures (as on 26-05-2024):** Minimum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Bihar, East Uttar Pradesh and West Rajasthan; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim; at isolated places over Uttarakhand, Haryana-Chandigarh-Delhi; **above normal (1.6°C to 3.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Jharkhand, Madhya Pradesh, Gujarat State, Nagaland, Manipur, Mizoram & Tripura; at a few places over Madhya Maharashtra, Marathwada; at isolated places over Konkan & Goa, Coastal Karnataka, Odisha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Telangana, Vidarbha and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 23.9°C** was reported at **Muzaffarnagar (West Uttar Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 26-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Arunachal Pradesh, Assam & Meghalaya, Punjab, Haryana-Chandigarh-Delhi; at a few places over West Rajasthan, Sub-Himalayan West Bengal & Sikkim; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Rajasthan; **appreciably above normal (3.1°C to 5.0°C)** at many places over West Uttar Pradesh; at a few places over Uttarakhand; at isolated places over East Uttar Pradesh, Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at a few places over Bihar, Vidarbha, Gujarat Region; at isolated places over Saurashtra & Kutch, Jharkhand, Marathwada. These were **markedly below normal (-5.1°C or more)** at isolated places over Odisha, South Interior Karnataka; **below normal (-1.6°C to -3.0°C)** at many places over Gangetic West Bengal; at isolated places over Rayalaseema, Madhya Maharashtra, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Andaman & Nicobar Islands and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 49.8°C** was reported at **Phalodi (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

❖ Further advance of Southwest Monsoon:

- ✓ Southwest Monsoon further advanced into some more parts of Southwest Bay of Bengal, Central Bay of Bengal and Northeast Bay of Bengal yesterday, the 26th May, 2024.
- ✓ The Northern Limit of Monsoon passes through 05°N/60°E, 06°N/70°E, 7°N/75°E, 8°N/80°E, 13°N/84°E, 16°N/87°E, 18.5°N/89.5°E, 21°N/93°E.
- ❖ The **Severe Cyclonic Storm** "Remal" (pronounced as "Re-Mal") over Coastal Bangladesh and adjoining Coastal West Bengal moved nearly northwards, with a speed of 15 kmph during past 06 hours, weakened into a **Cyclonic Storm** and lay centered at 0530 hrs IST of today, the 27th May, 2024 over the same region, near Latitude 22.5°N and Longitude 89.3°E about 150 km northeast of Sagar Islands (West Bengal), 110 km northwest of Khepupara (Bangladesh), 70 km northeast of Canning (West Bengal) and 30 km west-southwest of Mongla (Bangladesh). The system is initially likely to move north-northeastwards, subsequently northeastwards and gradually weaken further.
- ❖ The Western Disturbance as a trough in lower tropospheric westerlies with its axis at 3.1 km above mean sea level now runs roughly along Long. 74°E to the north of Lat. 34°N.
- ❖ The cyclonic circulation over northwest Uttar Pradesh & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over southwest Rajasthan & neighbourhood at 1.5 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 03rd June, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ No significant change in maximum temperatures very likely over Rajasthan & Madhya Pradesh during next 48 hours and fall by about 2°C thereafter.
- ❖ Fall in maximum temperatures by 2-3°C very likely over Maharashtra & Gujarat during next 4-5 days.
- ❖ No significant change in maximum temperatures very likely over East India during next 48 hours and gradually rise by 2-4°C thereafter.
- ❖ Fall in maximum temperatures by 6-8°C very likely over Northeast India during next 24 hours and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 03rd-05th June, 2024)

- ❖ Scattered to fairly widespread rainfall likely over Islands, East India and extreme south peninsular India.
- ❖ Dry weather likely to prevail over rest parts of the country.

Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	27- May	28- May	29- May	30- May	31- May	01- Jun	02- Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	WS	WS	WS	WS	WS	WS	WS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	WS	WS	WS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	FWS	WS	ISOL	ISOL
6	GANGETIC WEST BENGAL	WS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
9	BIHAR	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	DRY	DRY	DRY	DRY	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
30	RAYALASEEMA	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
32	COASTAL KARNATAKA	SCT	FWS	FWS	FWS	FWS	WS	WS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	SCT	FWS	FWS	FWS
35	KERALA & MAHE	FWS	FWS	WS	WS	WS	WS	WS
36	LAKSHADWEEP	FWS	FWS	FWS	FWS	FWS	FWS	FWS

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

Fig. 2: Departure of Maximum Temperatures

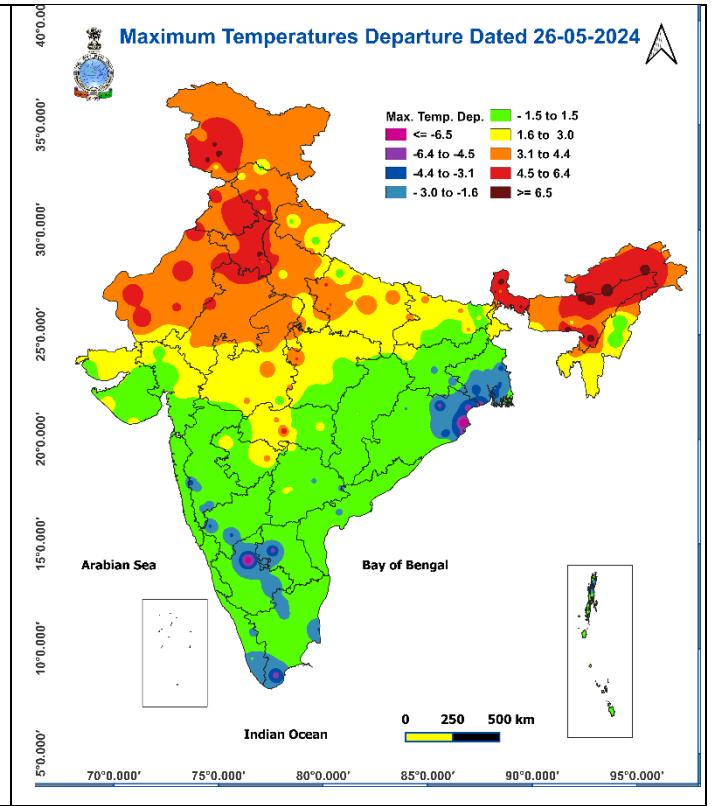
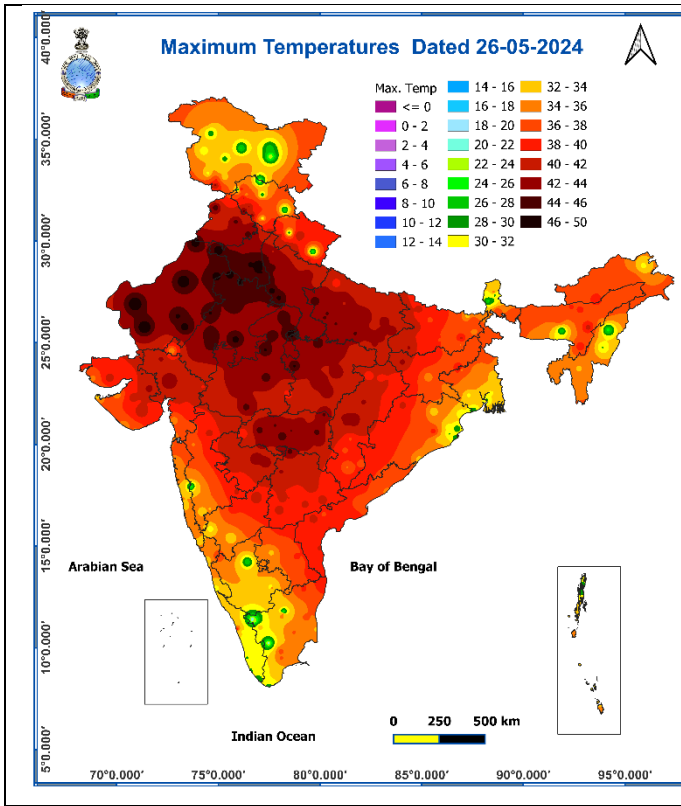


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

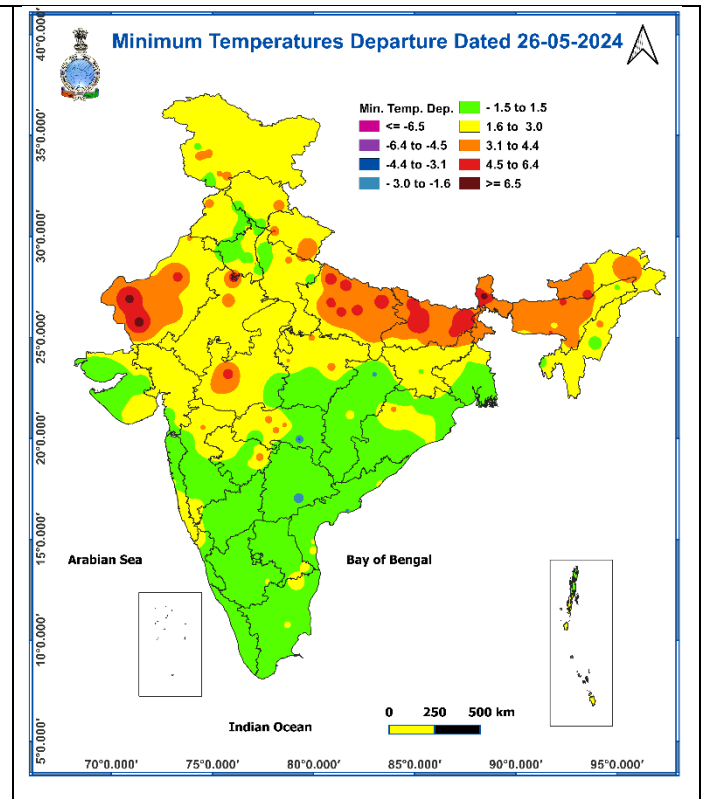
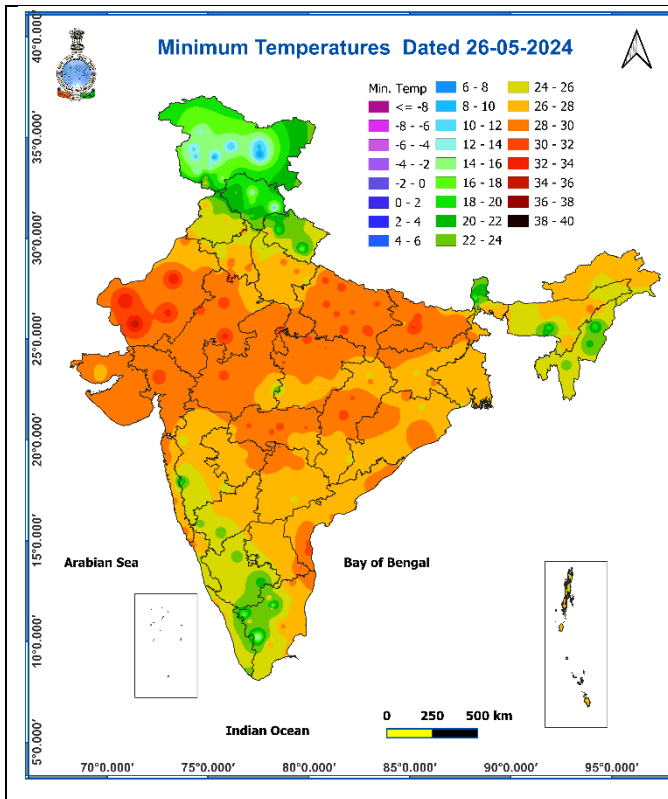
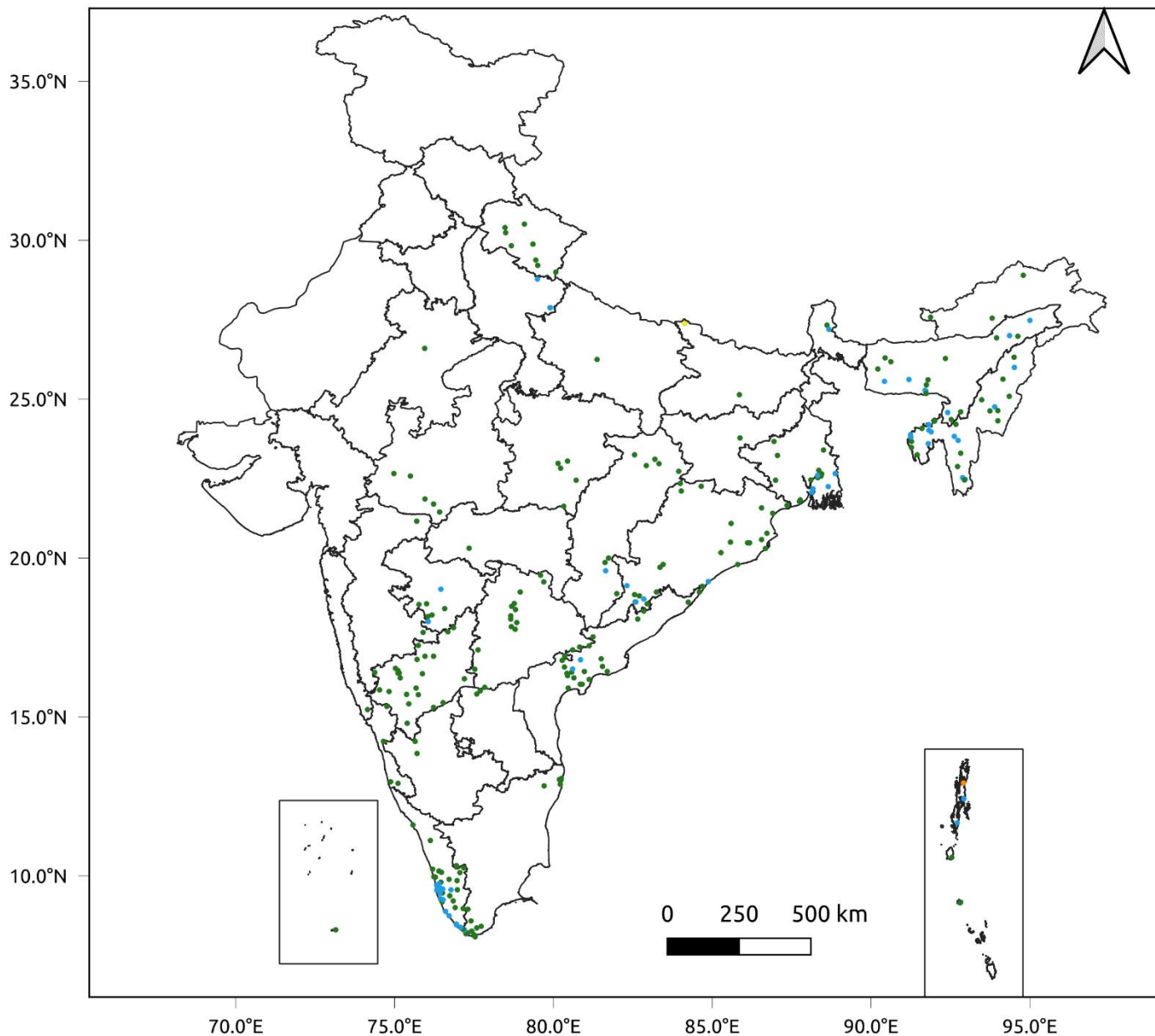


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



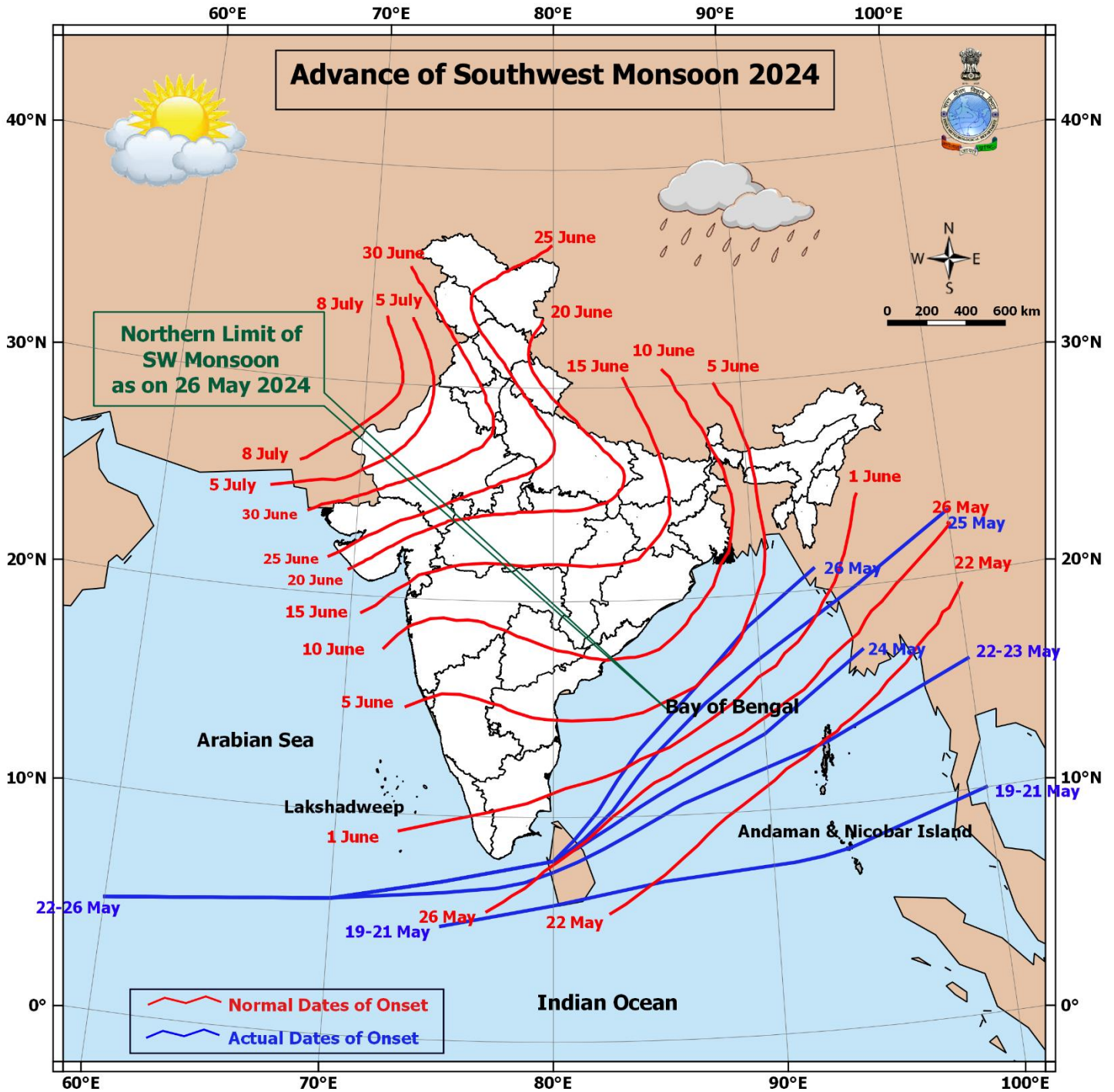
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 25-5-2024 to 0830 IST of 26-5-2024



Legends

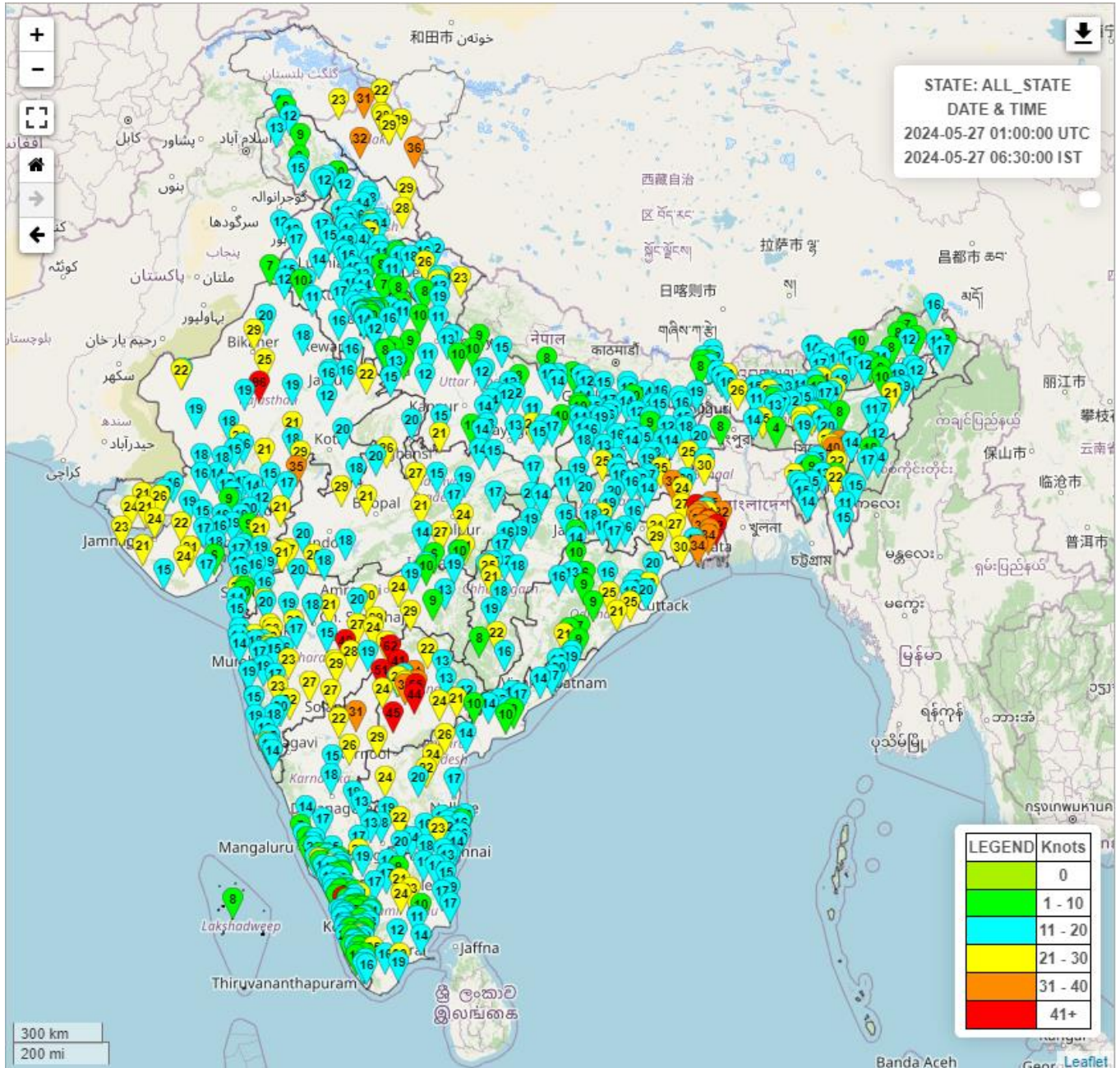
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



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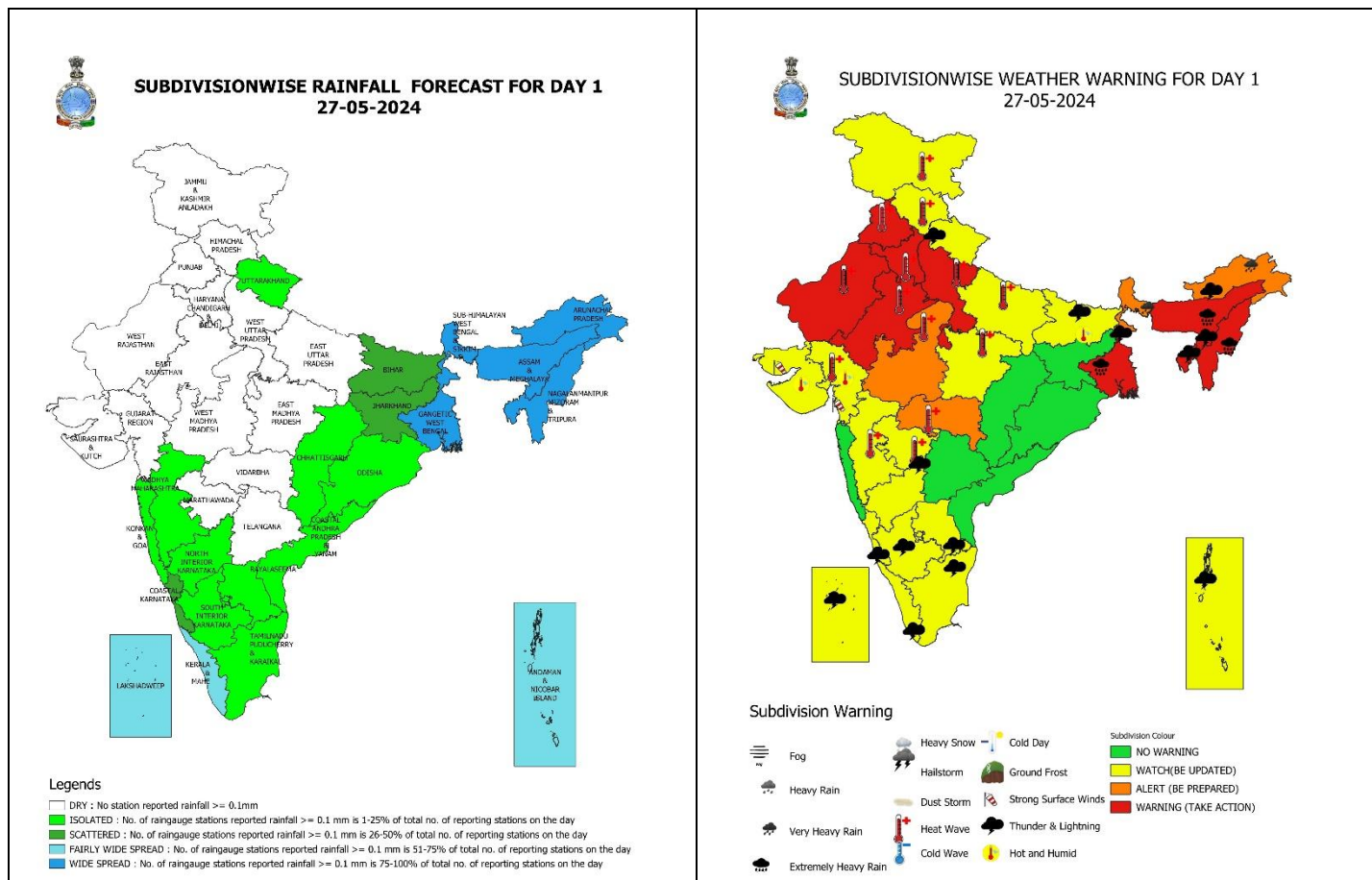
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST of 26.05.2024 to 0630 hours IST of 27.05.2024



1 Knot = 1.852 kmph

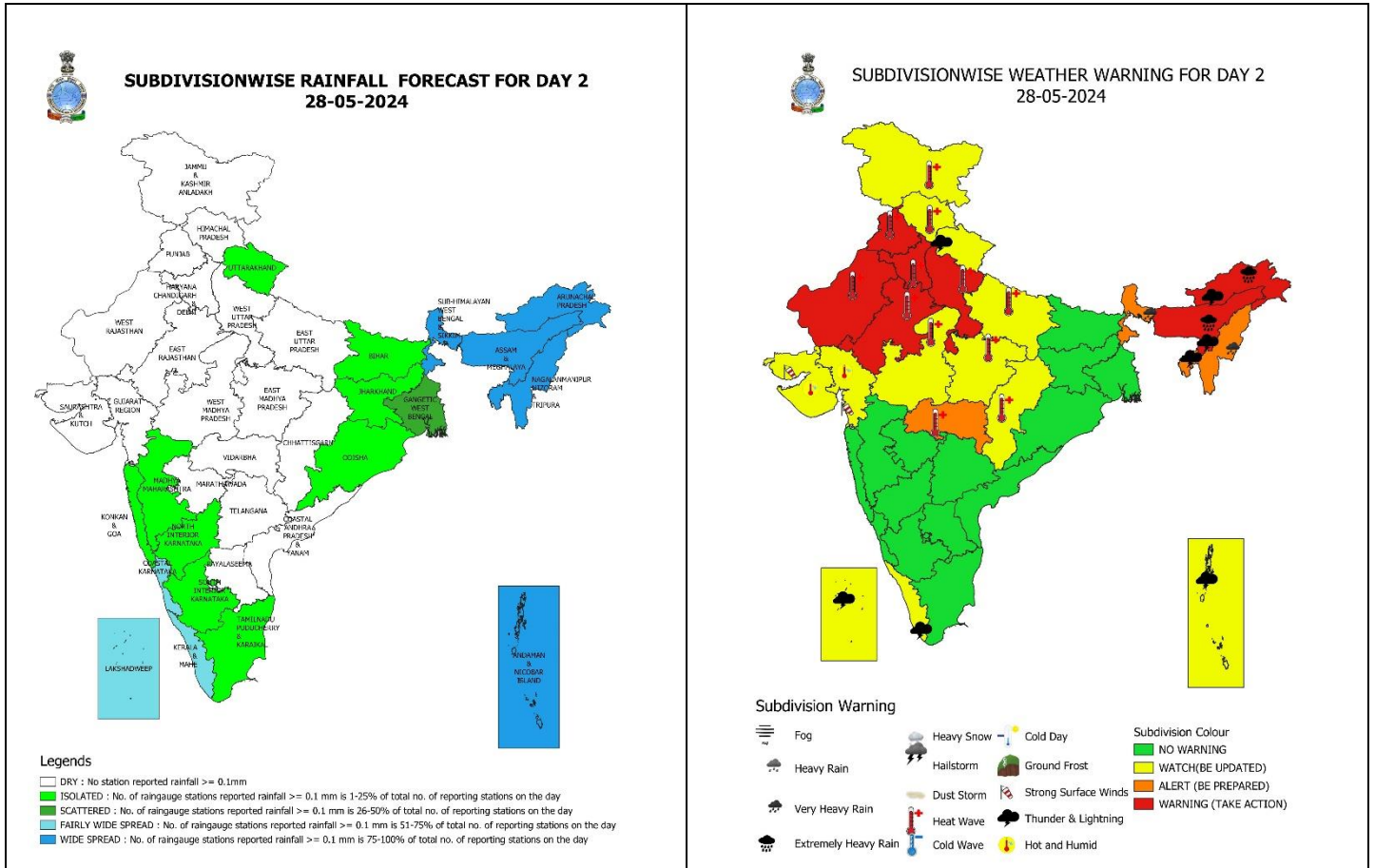
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27 May (Day 1):

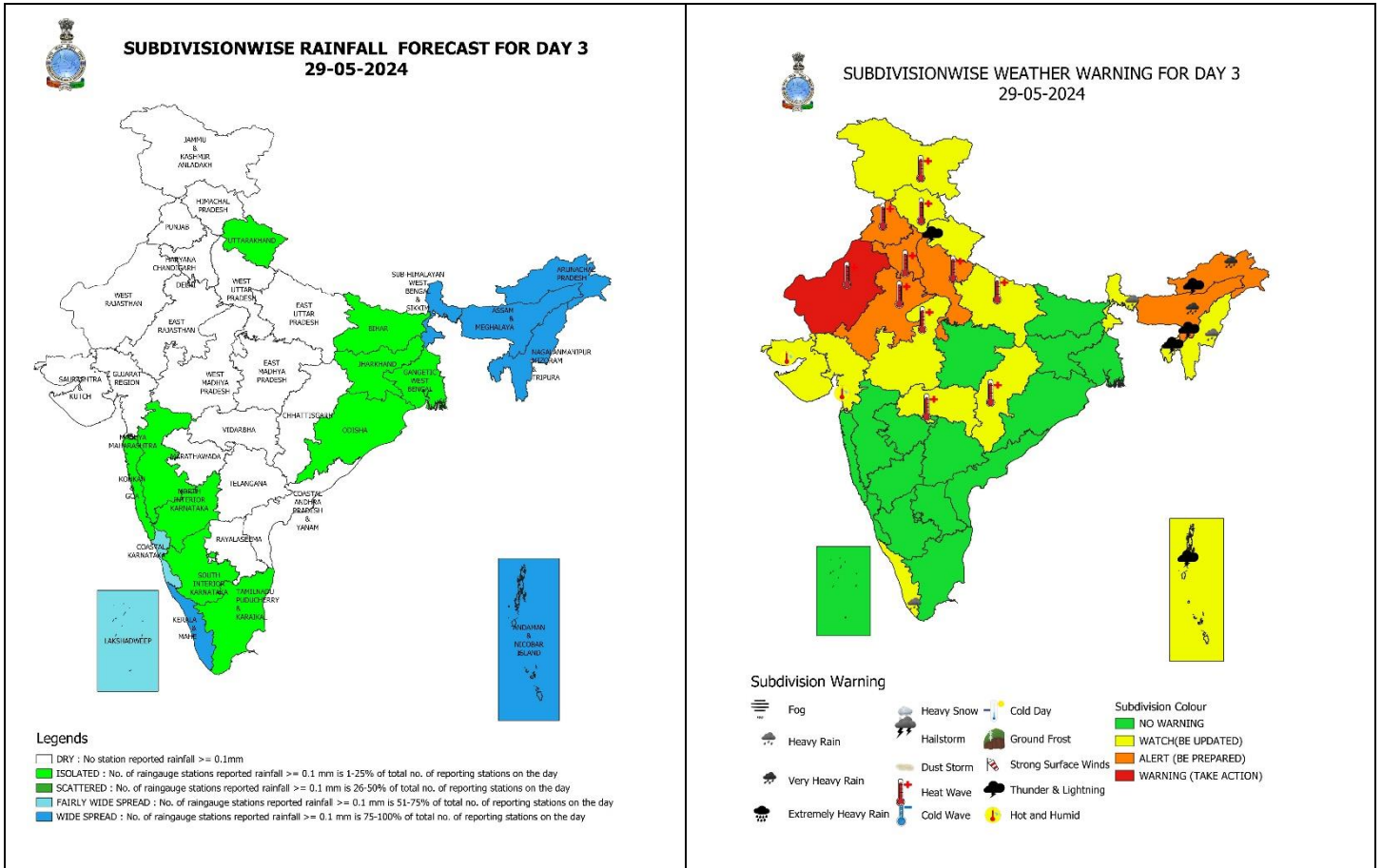
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **Heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh.
- ❖ **Heat Wave to severe heat wave Conditions** very likely to prevail in most places over West Rajasthan; in many parts over East Rajasthan and Haryana; in some parts of West Uttar Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, Delhi, Punjab, East Uttar Pradesh, Madhya Pradesh and Vidarbha.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan and Madhya Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over Bihar and coastal areas of Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, Andaman & Nicobar Islands, Kerala & Mahe, Coastal Karnataka, Interior Karnataka; **with lightning** at isolated places over Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Rayalaseema.
- ❖ **Gale wind speed reaching 80-90 kmph gusting to 100 kmph** is prevailing over North Bay of Bengal. It is likely to decrease becoming 60-70 kmph gusting to 80 kmph by noon of 27th May and squally wind speed reaching 45-55 kmph gusting to 65 kmph by evening of 27th May. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** will continue to prevail over adjoining central Bay of Bengal. **Gale wind speed reaching 80-90 kmph gusting to 100 kmph** will continue to prevail along & off Bangladesh and adjoining West Bengal coasts during next 3 hours. It is likely to decrease becoming 60-70 kmph gusting to 80 kmph by noon, squally wind 50-60 kmph gusting to 70 kmph by evening of 27th May and decrease gradually thereafter. **Gale wind speed reaching 60-70 kmph gusting to 80 kmph** will continue to prevail over Howrah, Hooghly & Kolkata, over East Medinipur during next 6 hours and decrease gradually thereafter. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely to prevail during next 6 hours and decrease gradually thereafter. **Squally wind speed reaching 50-60 kmph gusting to 70 kmph** is likely over Mizoram Tripura & south Manipur and **40-50 kmph gusting to 60 kmph** is likely over South Assam and Meghalaya.



28 May (Day 2):

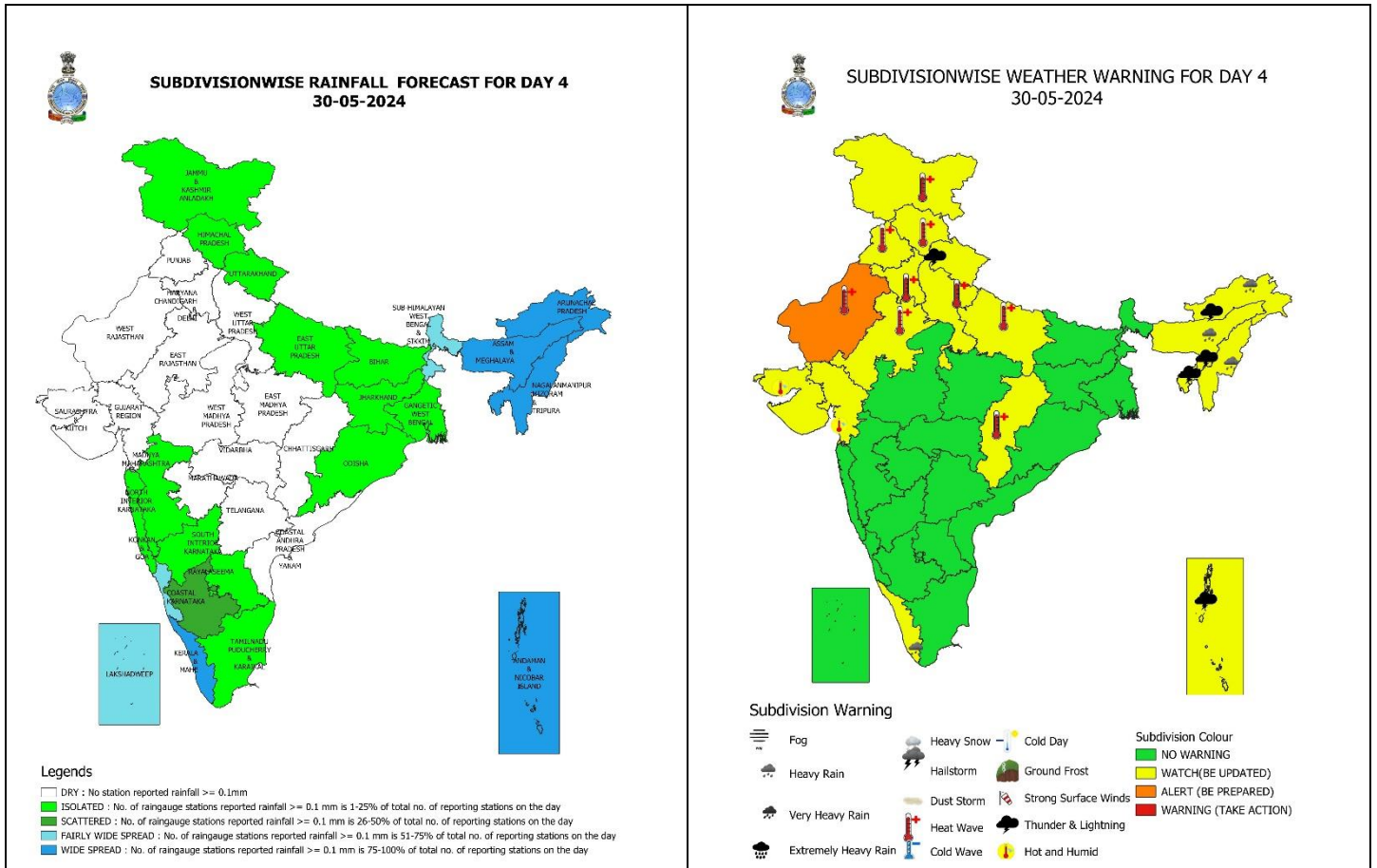
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Heat Wave to severe heat wave Conditions** very likely to prevail in most places over West Rajasthan; in many parts over Haryana; in some parts of West Uttar Pradesh; at isolated places over East Rajasthan; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, Punjab, Delhi, East Uttar Pradesh, Madhya Pradesh, Vidarbha and Chhattisgarh.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Haryana-Chandigarh-Delhi, East Uttar Pradesh and Rajasthan.
- ❖ **Hot and humid weather** very likely to prevail over coastal areas of Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand, Andaman & Nicobar Islands, Kerala & Mahe; **with lightning** at isolated places over Lakshadweep.

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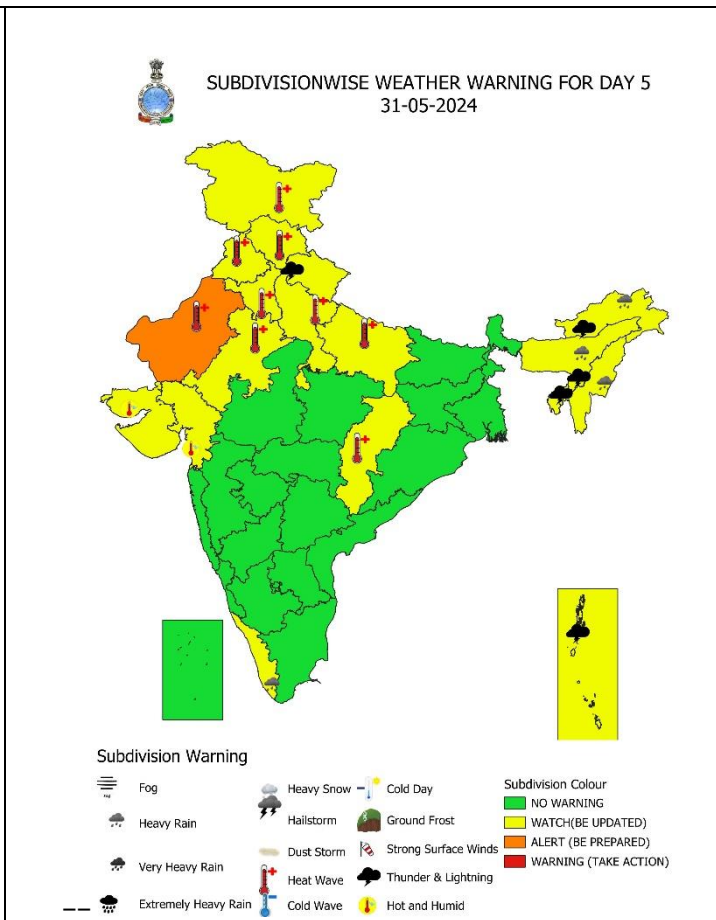
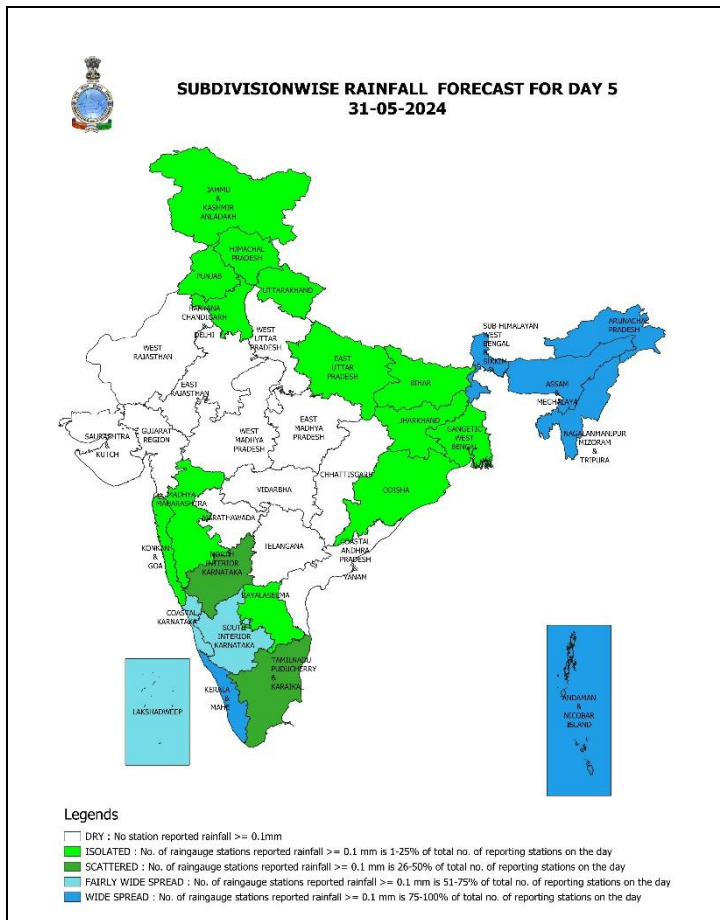
29 May (Day 3):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Arunachal Pradesh, **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in some parts of West Rajasthan and Haryana; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, Punjab, Uttar Pradesh, Delhi, East Rajasthan, Vidarbha, Chhattisgarh.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Haryana-Chandigarh and west Rajasthan.
- ❖ **Hot and humid weather** very likely to prevail over coastal areas of Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand.



30 May (Day 4):

- ❖ **Heavy to very heavy rainfall** at isolated places over Arunachal Pradesh, **heavy rainfall** at isolated places over Assam & Meghalaya Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.
- ❖ **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, Rajasthan and Chhattisgarh.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Haryana-Chandigarh, Uttar Pradesh, Rajasthan and Madhya Pradesh.
- ❖ **Hot and humid weather** likely to prevail over coastal areas of Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand.

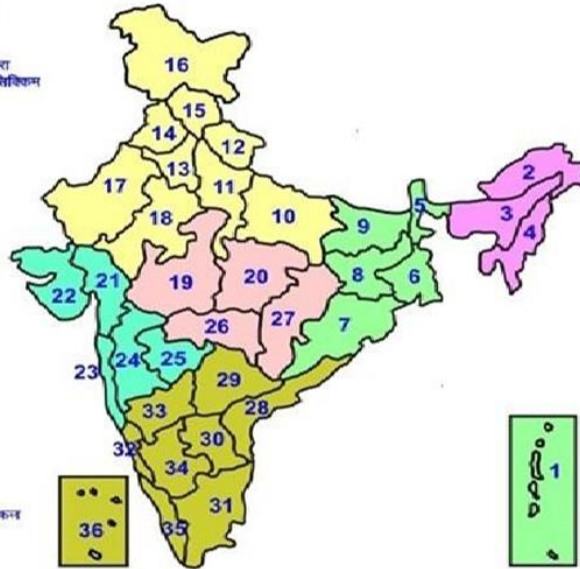


31 May (Day 5):

- ❖ **Heavy to very heavy rainfall** at isolated places over Arunachal Pradesh, **heavy rainfall** at isolated places over Assam & Meghalaya Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.
- ❖ **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, Rajasthan and Chhattisgarh.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Haryana-Chandigarh, Uttar Pradesh, Rajasthan and Madhya Pradesh.
- ❖ **Hot and humid weather** likely to prevail over coastal areas of Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand.

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 उत्तराखण्ड
- 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
- 22 सौराष्ट्र
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तमिलनाडु, पुदुचेरी एवं कराईकल
- 31 उत्तरीय कर्नाटक
- 32 दक्षिणी कर्नाटक
- 33 उत्तरीय कर्नाटक
- 34 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. Tamilnada, 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)

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

LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
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Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
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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)

* 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)