

Tuesday, May 28, 2024
Time of Issue: 0830 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ The Northern Limit of Monsoon continues to pass through 05°N/60°E, 06°N/70°E, 07°N/75°E, 08°N/80°E, 13°N/84.5°E, 16°N/87.5°E, 18.5°N/90°E, 21°N/92.5°E.
- ❖ **The conditions are likely to become favorable for Monsoon onset over Kerala during next 5 days.**
- ❖ The conditions are also likely to become favourable for further advance of Southwest Monsoon into some more parts of South Arabian Sea, remaining parts of Maldives and Comorin area; some parts of Lakshadweep area, Kerala; some more parts Southwest & Central Bay of Bengal, Northeast Bay of Bengal and some parts of Northeastern states during the same period.
- ❖ Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** likely over Kerala & Mahe, Lakshadweep, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim during 28th May- 01st June.
 - **Isolated heavy rainfall very likely over Kerala & Mahe during 28th-31st; Lakshadweep on 29th; over Andaman & Nicobar Islands on during 28th May- 01st June, 2024.**
- ❖ Isolated to scattered light rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Uttarakhand during 28th May- 01st June; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 30th & 31st May, 2024.
- ❖ **Strong surface wind** (speed 25-35 kmph) over Gujarat State on 28th May, 2024.

Depression (remnant of Cyclonic Storm "Remal") over east Bangladesh:

The **Deep Depression (remnant of Cyclonic Storm "Remal")** over Bangladesh moved east-northeastwards with a speed of 12 kmph during past 06 hours, weakened into a Depression and lay centered at 0530 hrs IST of 28th May, 2024 over east Bangladesh, near latitude 24.4 °N and longitude 91.1 °E about 170 km west-southwest of Silchar (Assam), 260 km north-northeast of Mongla (Bangladesh), 60 km west-southwest of Srimangal (Bangladesh) and 100 km northeast of Dhaka (Bangladesh). The system is likely to move east-northeastwards, and weaken further into a Well Marked Low Pressure Area during next 12 hours.

Heavy Rainfall Warning:

Northeastern States: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places is likely over Assam, Meghalaya on 29th, 30th May & 1st June, Arunachal Pradesh on 28th, 29th & 1st June. Isolated **extremely heavy rainfall** (≥ 20 cm) is also likely over south Assam & Meghalaya, Tripura on 28th May. **Heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura during 29th May -1st June, 2024.

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 West Rajasthan; some parts of East Rajasthan; isolated pockets of Haryana-Chandigarh-Delhi, West Uttar Pradesh & Madhya Pradesh; 44-46°C in most parts of Punjab; many parts of Vidarbha; some parts of East Uttar Pradesh; isolated pockets of Gujarat state; 40- 44°C in some parts of interior Odisha, Chhattisgarh, Marathwada & Telangana; isolated pockets of Jammu division, plains of Uttarakhand & Himachal Pradesh, Bihar, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam. These were above normal by 4-6°C over many parts of Rajasthan, Punjab, Haryana, Chandigarh, Delhi & Uttar Pradesh; in some parts of Jammu-Kashmir & Himachal Pradesh; isolated pockets of Madhya Pradesh, Vidarbha, Saurashtra & Kutch; above normal by 2-3°C over many parts of Gujarat Region and isolated pockets of Chhattisgarh.

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, West Madhya Pradesh on 28th & 29th and gradual reduction thereafter.
- ❖ **Heat wave conditions** very likely in isolated pockets of Himachal Pradesh, East Uttar Pradesh, during 28th-30th; Chhattisgarh during 28th-30th; East Madhya Pradesh, Vidarbha, Jammu division on 28th & 29th May, 2024.
- ❖ **Hot and humid weather** very likely to prevail over some parts of Gujarat state during 28th-31st; Bihar on 28th May, 2024.
- ❖ **Warm night conditions** in isolated pockets very likely to prevail over Punjab, Haryana-Chandigarh-Delhi during 28th-31st; Rajasthan, Uttar Pradesh and Madhya Pradesh on 28th May, 2024.

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 to 1730 hours IST of yesterday): **at most places** over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and West Bengal & Sikkim; **at many places** over Andaman & Nicobar Islands; **at a few places** over Kerala & Mahe and Lakshadweep and **at isolated places** over East Uttar Pradesh, Vidarbha and Coastal Karnataka.
- ❖ **Significant amount of rainfall** (from 0830 to 1730 hours IST of yesterday) (in cm): **Nagaland, Manipur, Mizoram & Tripura:** Agartala 6, Kailashahar 3, Aizwal 1; **Gangetic West Bengal:** Kolkata, Howrah & Burdwan 5 each; Canning & Diamond Harbour 4 each; Haldia 3; **Assam & Meghalaya:** Cherrapunji 4, Shillong 3, Barapani & Silchar 2 each; **Arunachal Pradesh:** Pasighat 1.
- ❖ Yesterday, **heat wave to severe heat wave conditions** prevailed over most parts of Rajasthan; in many parts of Punjab, Haryana-Chandigarh-Delhi, in some parts of Madhya Pradesh; in isolated pockets of Uttar Pradesh. **Heat wave conditions** prevailed in isolated pockets of Jammu-Kashmir, Himachal Pradesh, Gujarat, Vidarbha. 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 27-05-2024):** Minimum temperatures were **markedly above normal (5.1°C or more)** at isolated places over East Uttar Pradesh, East Rajasthan and Bihar; **appreciably above normal (3.1°C to 5.0°C)** at many places over West Uttar Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Rajasthan, West Madhya Pradesh, Arunachal Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, East Madhya Pradesh, Gujarat Region, Konkan & Goa, Jharkhand, Sub-Himalayan West Bengal & Sikkim; at isolated places over Marathwada, Chhattisgarh, Odisha, Saurashtra & Kutch, Vidarbha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Gangetic West Bengal, Telangana and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 21.5°C was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 27-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Rajasthan; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Haryana-Chandigarh-Delhi; **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab and Uttar Pradesh; at a few places over Himachal Pradesh, West Madhya Pradesh, Gujarat Region; at isolated places over Uttarakhand, East Madhya Pradesh, Saurashtra & Kutch and Vidarbha; **above normal (1.6°C to 3.0°C)** at isolated places over Chhattisgarh and Tamil Nadu, Puducherry & Karaikal. These are **markedly below normal (-5.1°C or less)** at many places over Gangetic West Bengal; at isolated places over Nagaland, Manipur, Mizoram & Tripura and Madhya Maharashtra; **appreciably below normal (-3.1°C to -5.0°C)** at many places over North Interior Karnataka; at a few places over Assam & Meghalaya and Rayalaseema; at isolated places over Sub-Himalayan West Bengal & Sikkim and South Interior Karnataka; **below normal (-1.6°C to -3.0°C)** at a few places over Odisha, Telangana and Coastal Andhra Pradesh & Yanam; at isolated places over Arunachal Pradesh, Bihar and Kerala & Mahe and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 49.4°C was reported at **Phalodi (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon continues to pass through 05°N/60°E, 06°N/70°E, 07°N/75°E, 08°N/80°E, 13°N/84.5°E, 16°N/87.5°E, 18.5°N/90°E, 21°N/92.5°E.
- ❖ **The conditions are likely to become favourable for Monsoon onset over Kerala during next 5 days.**
- ❖ The conditions are also likely to become favourable for further advance of Southwest Monsoon into some more parts of South Arabian Sea, remaining parts of Maldives and Comorin area; some parts of Lakshadweep area, Kerala; some more parts Southwest & Central Bay of Bengal, Northeast Bay of Bengal and some parts of Northeastern states during the same period.
- ❖ The **Deep Depression (remnant of Cyclonic Storm "Remal")** over Bangladesh moved east-northeastwards with a speed of 12 kmph during past 06 hours, **weakened into a Depression** and lay centered at 0530 hrs IST of 28th May, 2024 over east Bangladesh, near latitude 24.4 °N and longitude 91.1 °E about 170 km west-southwest of Silchar (Assam), 260 km north-northeast of Mongla (Bangladesh), 60 km west-southwest of Srimangal (Bangladesh) and 100 km northeast of Dhaka (Bangladesh). The system is likely to move east-northeastwards, and weaken further into a Well Marked Low Pressure Area during next 12 hours.
- ❖ The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 75°E to the north of Lat. 33°N persists.
- ❖ The cyclonic circulation over northwest Uttar Pradesh & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over northeast Rajasthan to north Chhattisgarh across Madhya Pradesh at 0.9 km above mean sea level persists.
- ❖ A fresh Western Disturbance likely to affect Northwest India from 30th May, 2024.

Weather Forecast for next 7 days (Upto 0830 hours IST of 04th 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 Northwest & Central India during next 2 days and fall by about 2°C thereafter.
- ❖ No significant change in maximum temperatures very likely over Maharashtra & Gujarat during next 24 hours and fall by 2-3°C thereafter.
- ❖ No significant change in maximum temperatures very likely over East India during next 24 hours and gradually rise by 2-4°C thereafter.
- ❖ Fall in maximum temperatures by 2-3°C very likely over Maharashtra during next 3 days 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 04th-06th 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	28-May	29-May	30-May	31-May	01-Jun	02-Jun	03-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	FWS	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	SCT	ISOL	ISOL	ISOL	ISOL	SCT	SCT
7	ODISHA	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
8	JHARKHAND	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
9	BIHAR	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
10	EAST UTTAR PRADESH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	ISOL	SCT	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
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	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
30	RAYALASEEMA	DRY	DRY	ISOL	ISOL	SCT	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	SCT	SCT	SCT	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	FWS	FWS	FWS	FWS
35	KERALA & MAHE	FWS	WS	WS	WS	WS	WS	WS
36	LAKSHADWEEP	WS	WS	WS	WS	WS	WS	WS

Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

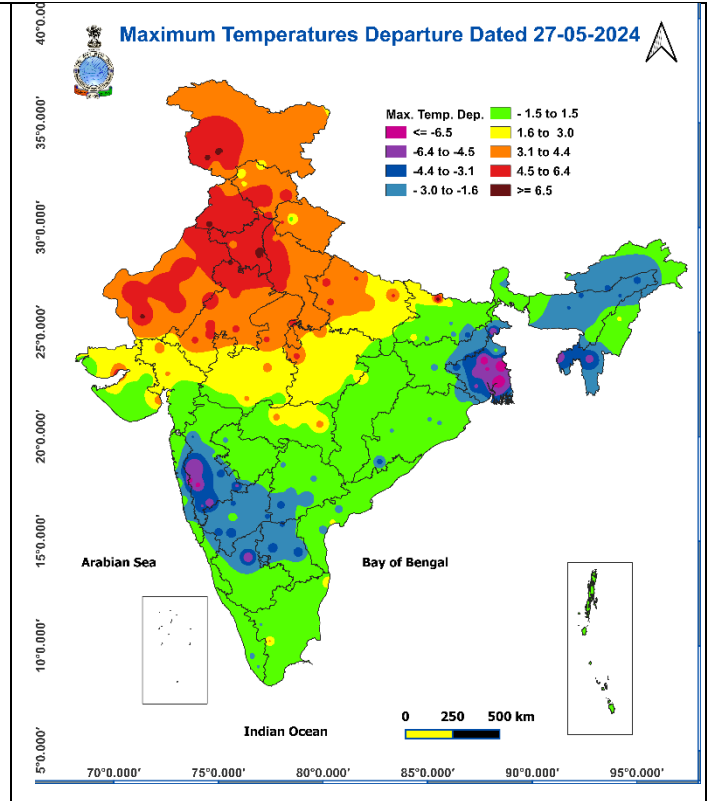
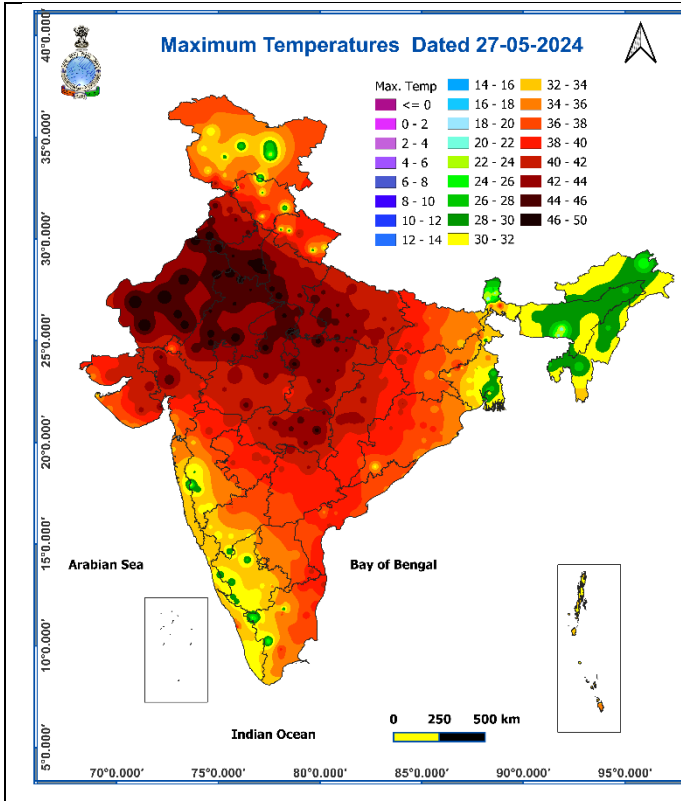


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

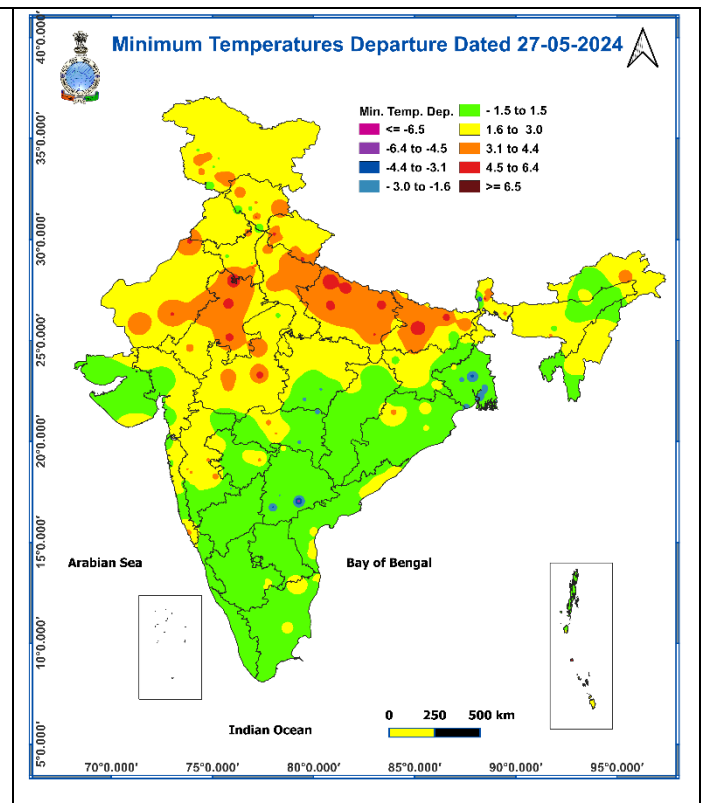
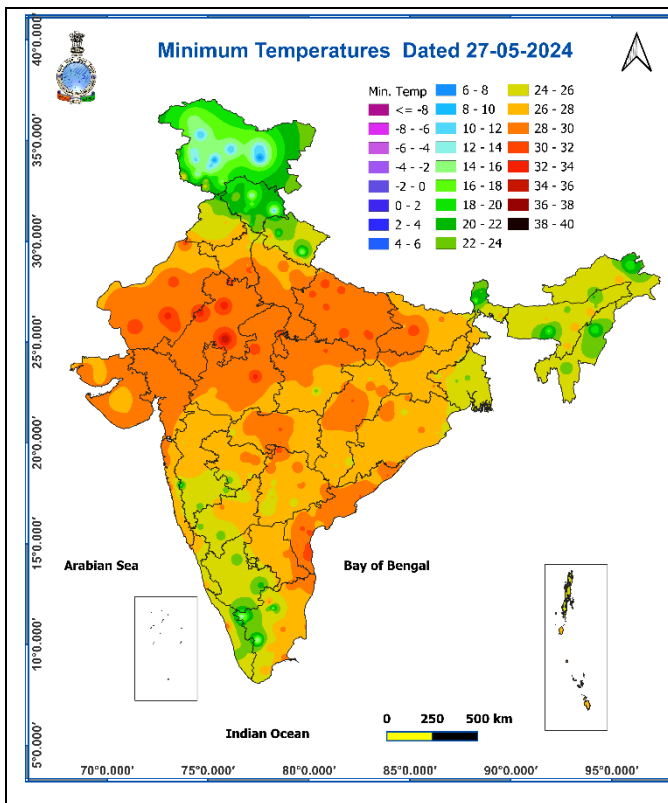
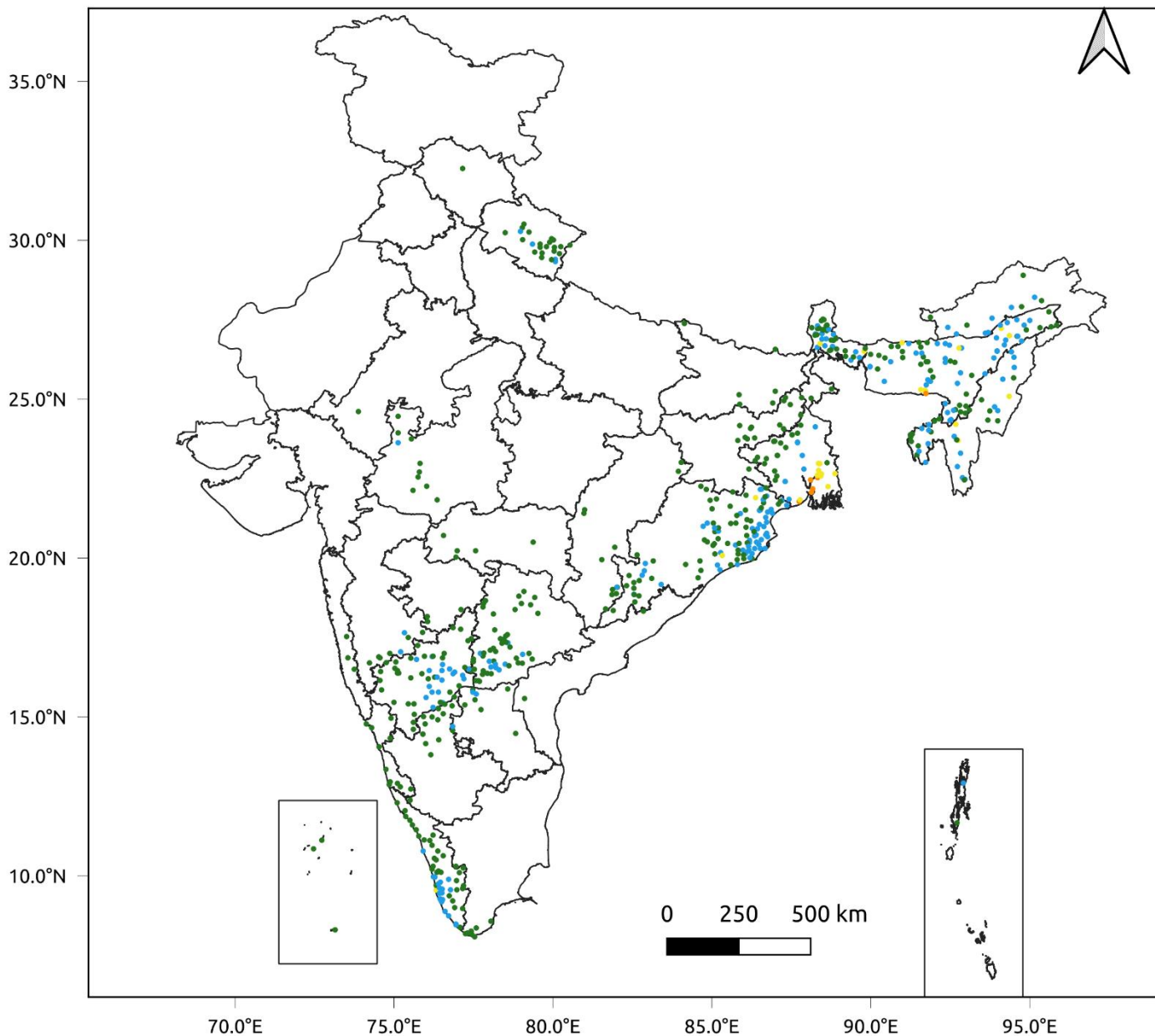


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



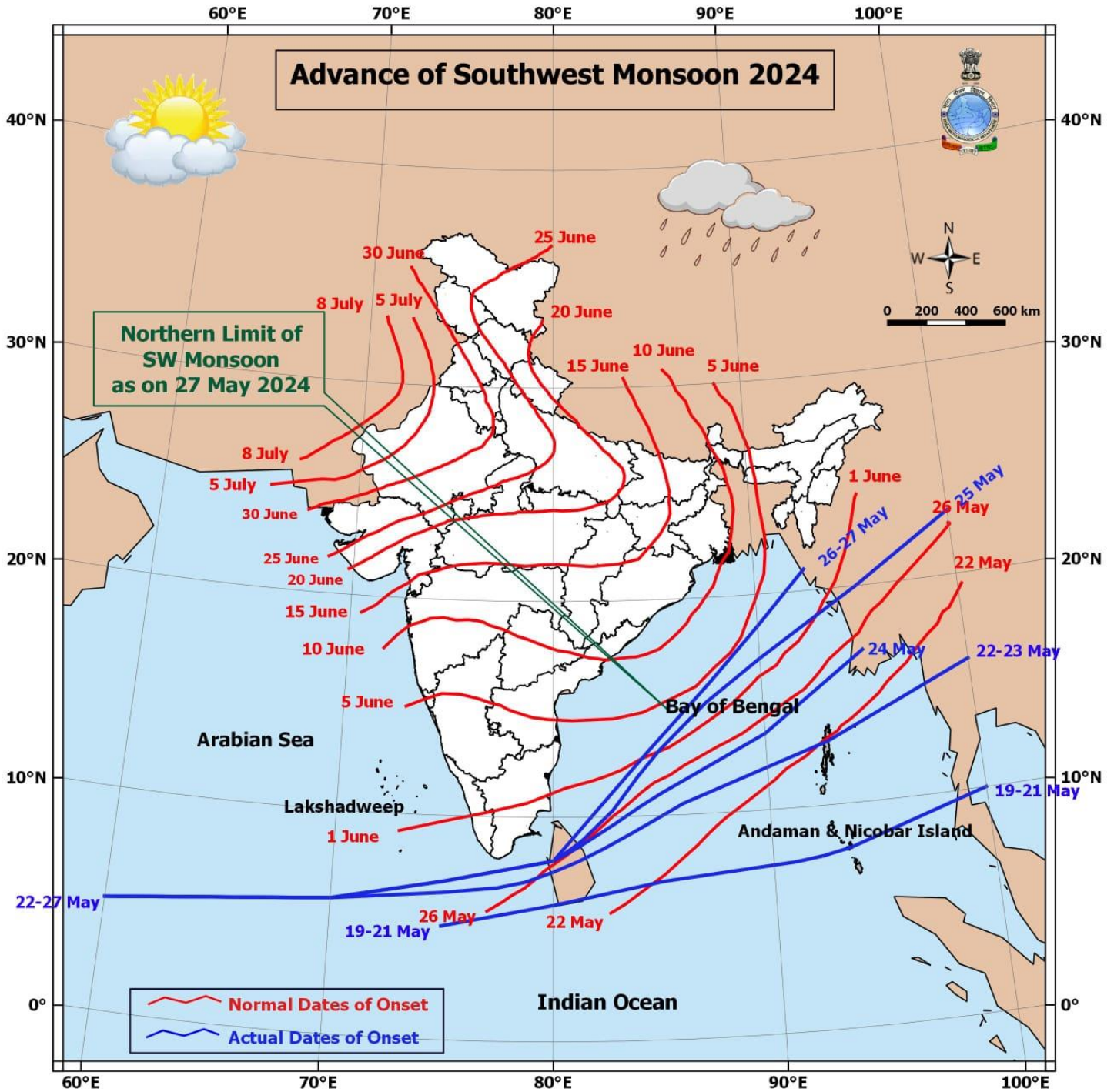
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 26-5-2024 to 0830 IST of 27-5-2024



Legends

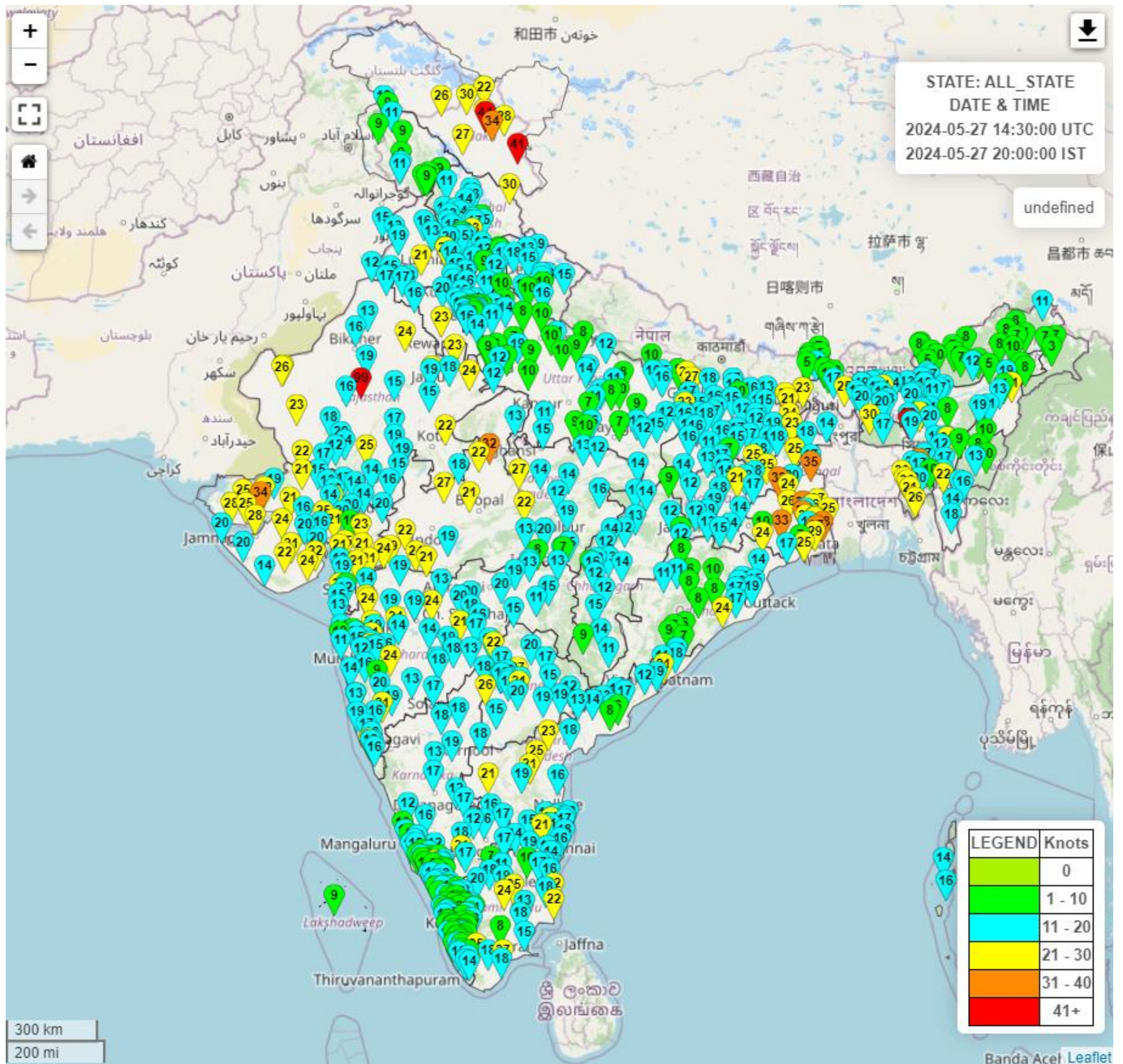
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



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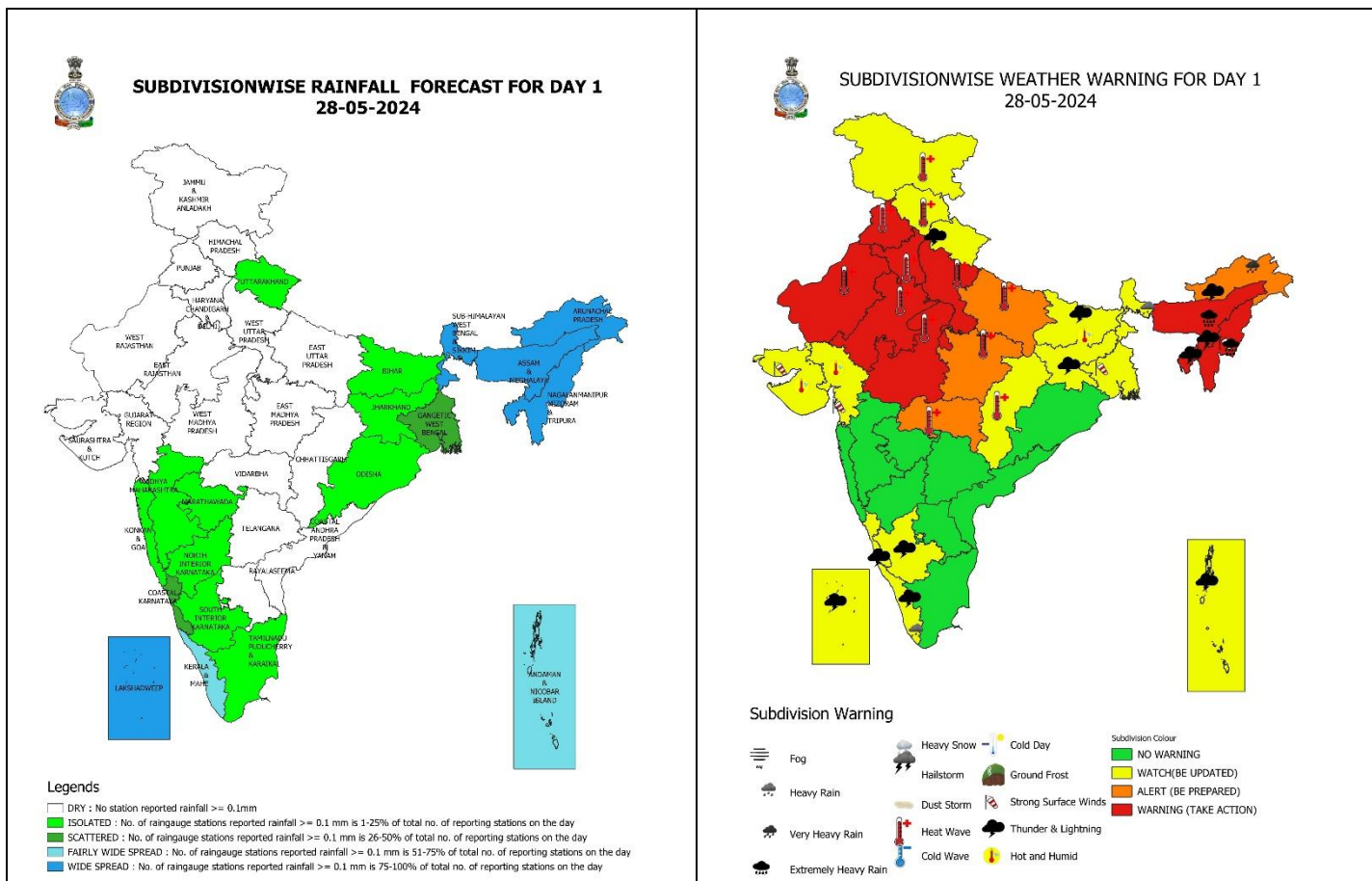
Fig. 7: Gusty winds reported over the country (in knots) from 0830 to 2000 hours IST of 27.05.2024



1 Knot = 1.852 kmph

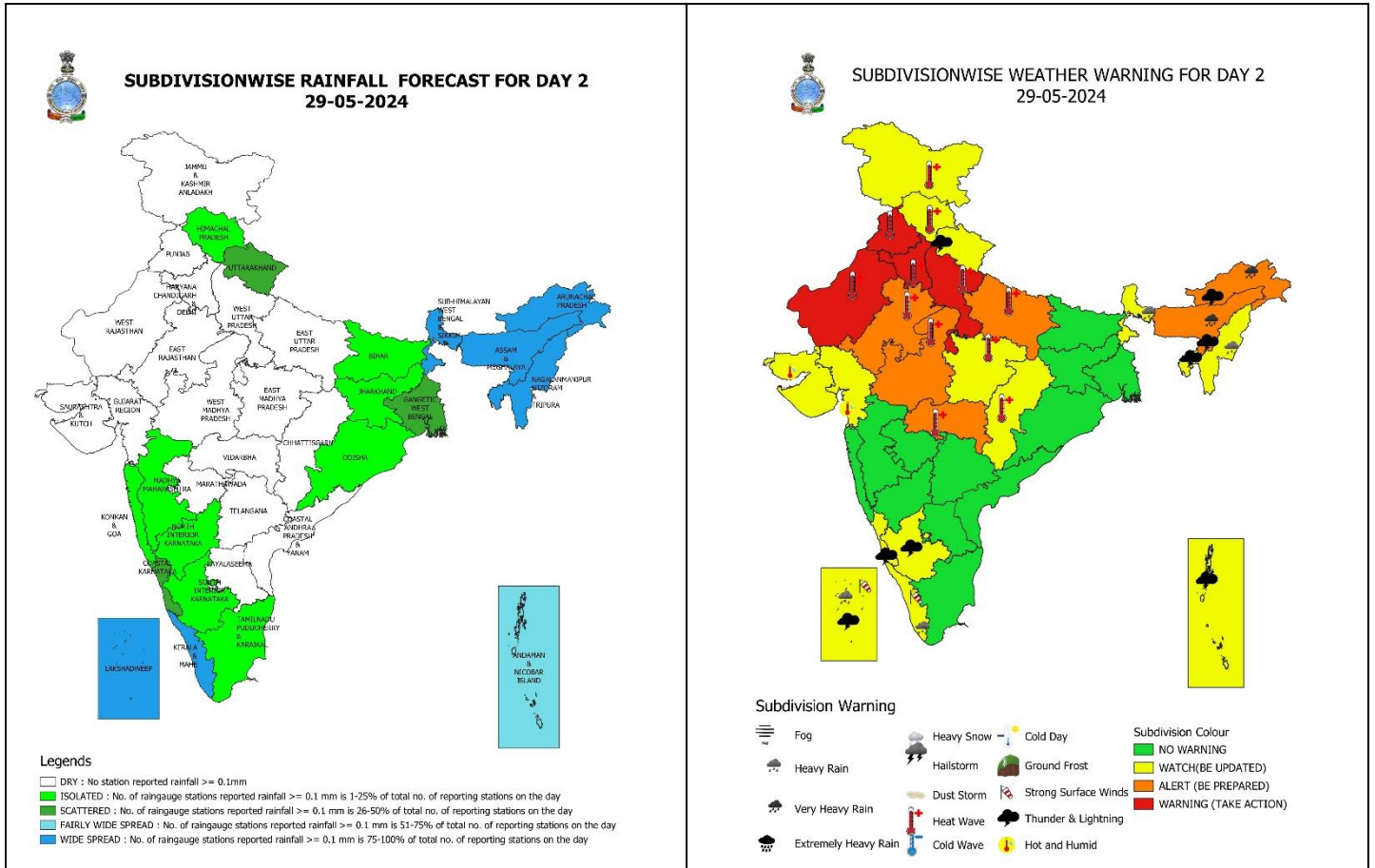
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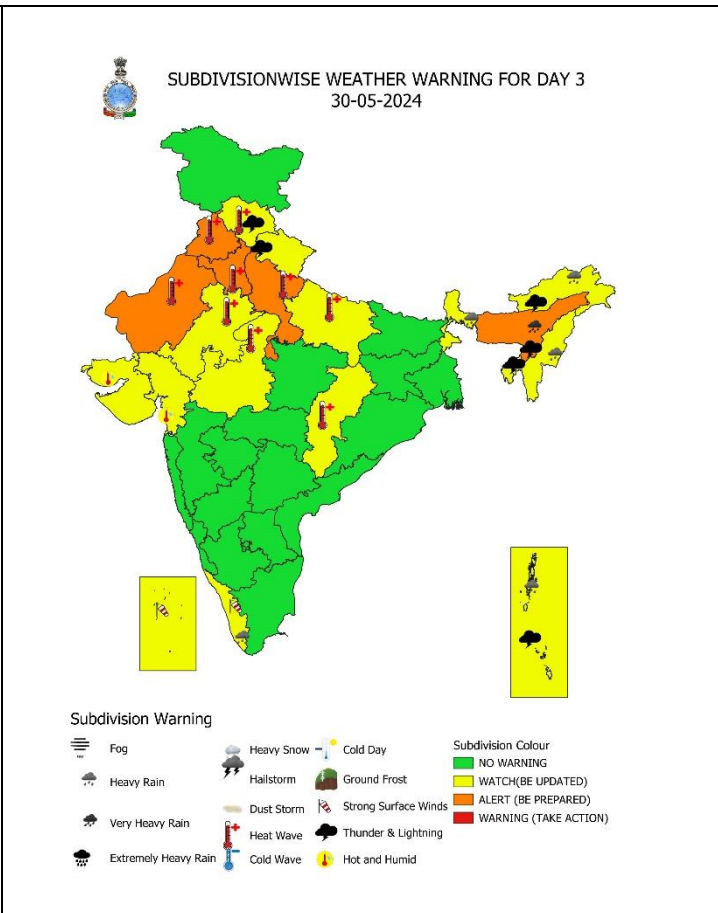
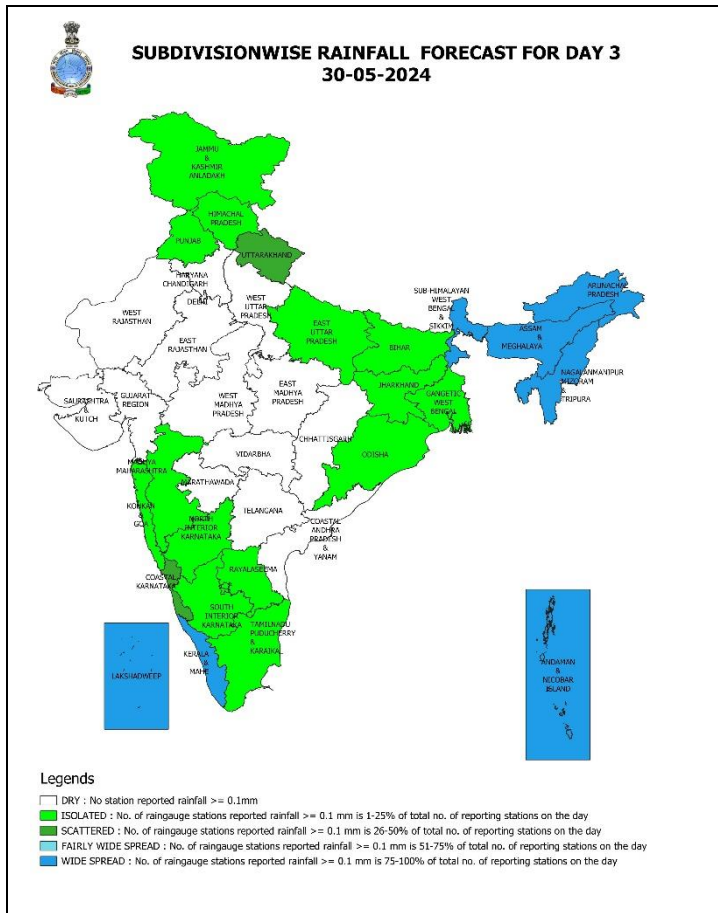
28 May (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over south Assam & Meghalaya, Tripura; **Heavy to very heavy rainfall** at a few places over Assam & Meghalaya, Mizoram, Tripura; at isolated places over Arunachal Pradesh, Assam, Nagaland, & Manipur; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe.
- ❖ **Heat Wave to severe heat wave Conditions** very likely to prevail in most places over West Rajasthan; in many parts over Punjab and Haryana-Chandigarh-Delhi and East Rajasthan; in some parts of East Uttar Pradesh, East Madhya Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- ❖ **Severe warm night conditions** very likely to prevail in some parts of West Rajasthan; **warm night conditions** to prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Bihar, East Rajasthan and Madhya Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over Bihar and Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Bihar, Jharkhand, Uttarakhand, South Interior Karnataka and Kerala & Mahe; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep, Coastal Karnataka.
- ❖ **Squally wind (speed 40 kmph to 50 kmph gusting to 60 kmph)** very likely to prevail over central parts of Bay of Bengal, eastcentral & adjoining westcentral Bay of Bengal, north Bay of Bengal, along and off Bangladesh and West Bengal coasts, Andaman sea; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over central parts of south and central Bay of Bengal; along and off Somalia coast, southwest and adjoining westcentral Arabian Sea, eastern parts of northeast Arabian Sea, Gulf of Khambhat, along and off north Andhra Pradesh, south Odisha coasts & adjoining west central Bay of Bengal. Fishermen are advised not to venture into these areas.



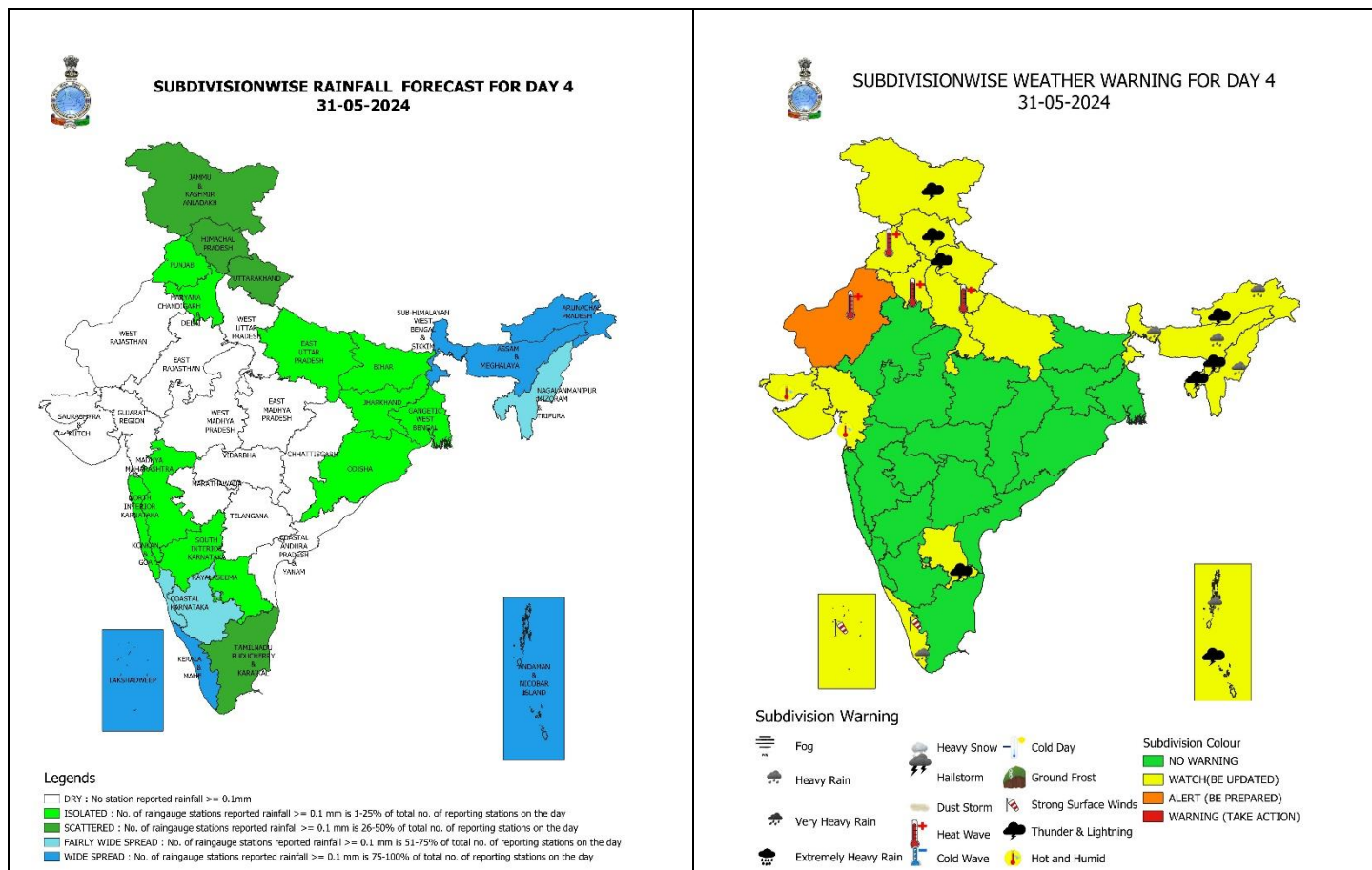
29 May (Day 2):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe.
- ❖ **Heat Wave to severe heat wave Conditions** very likely to prevail in many parts over Punjab, Haryana-Chandigarh-Delhi; in some parts of West Rajasthan; in isolated pockets over Uttar Pradesh, West Rajasthan; **heat wave conditions** in some parts over West Madhya Pradesh; in isolated pockets over Jammu division, Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh.
- ❖ **Warm night conditions** likely to prevail in some parts over West Rajasthan; in isolated pockets over Punjab, Haryana-Chandigarh.
- ❖ **Hot and humid weather** very likely to prevail over Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Uttarakhand, Andaman & Nicobar Islands, Kerala & Mahe, South Interior Karnataka; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and Coastal Karnataka.
- ❖ **Squally wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** very likely to prevail over south and adjoining central Arabian sea, Lakshadweep, Maldives area, Comorin area, Gulf of Mannar, along and off south Sri Lanka coast, central parts of south Bay of Bengal, eastcentral Bay of Bengal & north Bay of Bengal, Andaman sea; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over Maldives Area and adjoining southeast Arabian sea; along and off Somalia coast, southwest and adjoining westcentral Arabian sea, eastern parts of northeast Arabian Sea, Gulf of Khambhat, along and off north Andhra Pradesh, south Odisha coasts & adjoining west central Bay of Bengal. Fishermen are advised not to venture into these areas.



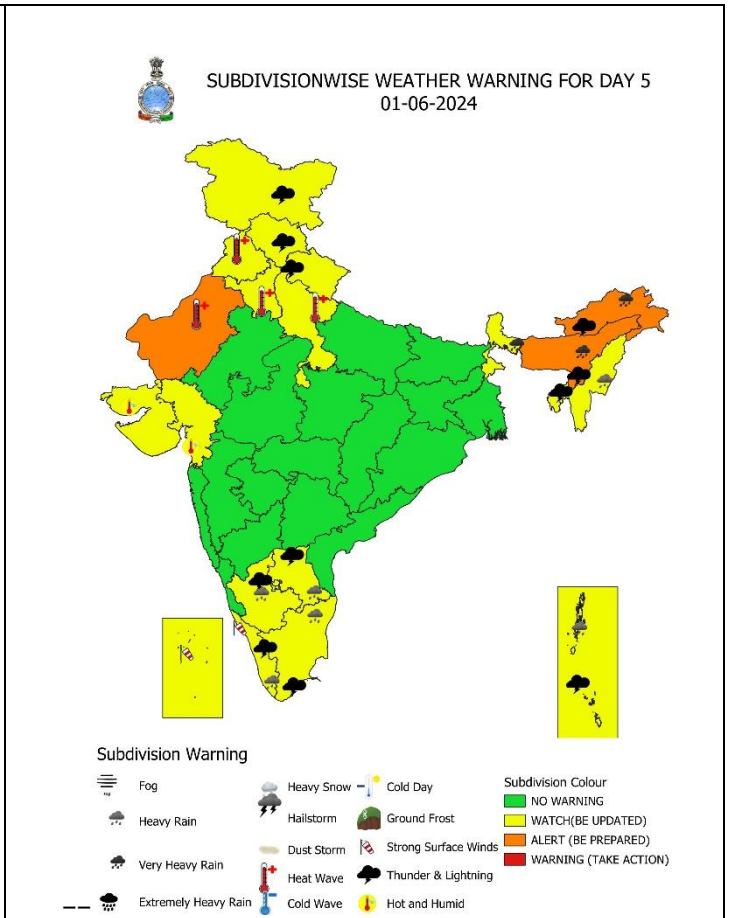
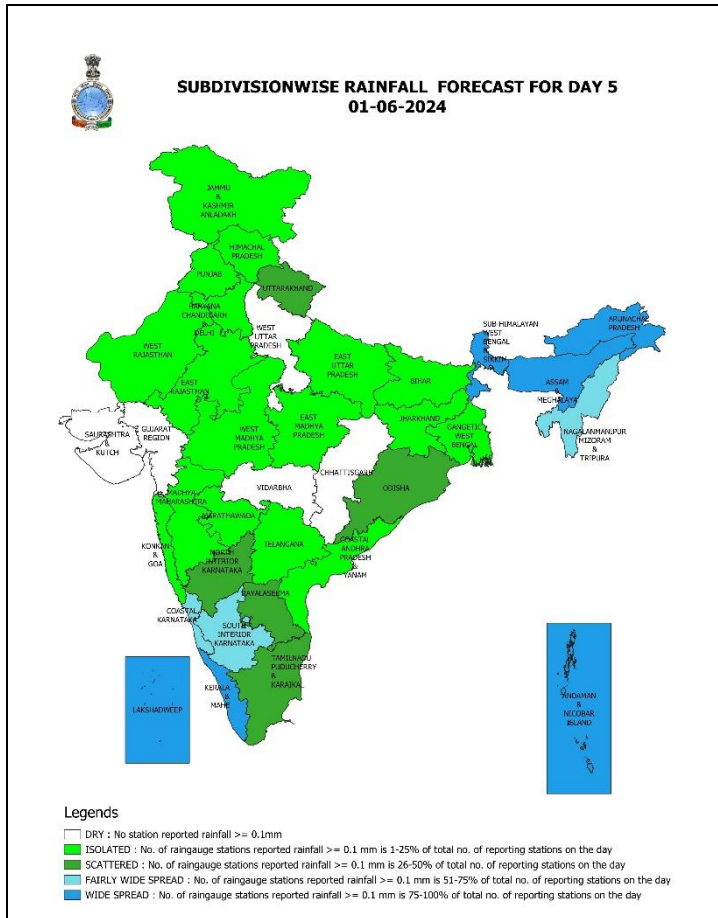
30 May (Day 3):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.
- ❖ **Heat wave conditions** likely to prevail in some parts over Haryana-Chandigarh-Delhi, West Uttar Pradesh and West Rajasthan; in isolated pockets over Himachal Pradesh, Punjab, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Chhattisgarh.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Punjab and Haryana-Chandigarh.
- ❖ **Hot and humid weather** likely to prevail over Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Squally wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** likely to prevail over eastern parts of southwest adjoining southeast Arabian sea, Lakshadweep, Maldives area & adjoining southeast Arabian sea, Comorin area, Gulf of Mannar, along and off south Sri Lanka coast, southern parts of south Bay of Bengal, central parts of Andaman sea; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over Comorin area, southern parts of south Bay of Bengal; along and off Somalia coast, southwest and adjoining westcentral Arabian sea, eastern parts of northeast Arabian sea, Gulf of Khambhat, along and off north Andhra Pradesh. Fishermen are advised not to venture into these areas.



31 May (Day 4):

- ❖ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and West Rajasthan.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Punjab and Haryana-Chandigarh.
- ❖ **Hot and humid weather** likely to prevail over Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Rayalaseema.
- ❖ **Squally wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** likely to prevail over southern parts of south bob, central parts of Andaman Sea; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail long and off Somalia coast, southwest and adjoining westcentral Arabian sea, eastern parts of northeast Arabian sea, Gulf of Khambhat. Fishermen are advised not to venture into these areas.

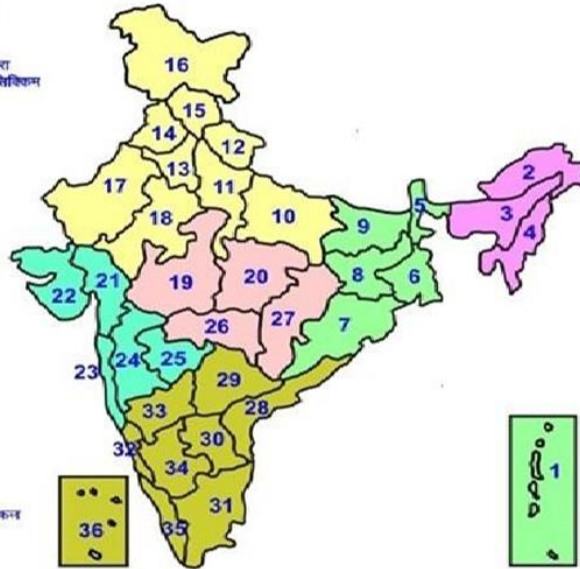


01 June (Day 5):

- ❖ **Heavy to very heavy rainfall** at a few places over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Rayalaseema, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Kerala & Mahe.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and West Rajasthan.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Punjab and Haryana-Chandigarh.
- ❖ **Hot and humid weather** likely to prevail over Gujarat state.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Rayalaseema.
- ❖ **Squally wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** likely to prevail over southern parts of south bob, central parts of Andaman Sea; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail long and off Somalia coast, southwest and adjoining westcentral Arabian sea, eastern parts of northeast Arabian sea, Gulf of Khambhat. Fishermen are advised not to venture into these areas.

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
- 22 सौराष्ट्र
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तेलंगाना
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 आंतरिक उत्तरी कर्नाटक
- 33 आंतरिक दक्षिणी कर्नाटक
- 34 केरल एवं माहे
- 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

* 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)

LEGENDS

WARNING

WARNING (TAKE ACTION)
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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)