

Thursday, May 30, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Advance of Southwest Monsoon:

- ❖ The Northern Limit of Monsoon continues to pass through 08°N/60°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.
- ❖ **Conditions are favourable for Monsoon onset over Kerala today, the 30th May, 2024.**
- ❖ Conditions are 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; some more parts Southwest & Central Bay of Bengal, Northeast Bay of Bengal and some parts of Northeastern states today, the 30th May, 2024.
- ❖ A cyclonic circulation lies over northeast Assam & neighbourhood in lower & middle tropospheric levels. Under its influence:
 - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 7 days.
 - ✓ Isolated **heavy/very heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim during next 5 days and isolated **heavy rainfall** over Nagaland, Manipur, Mizoram & Tripura on 30th May, 2024.
- ❖ Isolated to scattered light/moderate rainfall over Bihar, Jharkhand, Gangetic West Bengal, Odisha during next 5 days and accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** likely over the above region during 31st May-03rd June.
- ❖ A shear zone near zone runs roughly along Lat. 8°N over south peninsular India in middle tropospheric levels. Strong westerly winds are prevailing along Kerala Coast. Under its influence:
 - ✓ 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; isolated to scattered light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal, Karnataka during next 7 days and Coastal Andhra Pradesh, Telangana, Rayalaseema during 01st-05th June, 2024.
 - ✓ **Isolated heavy rainfall very likely over Kerala & Mahe during next 5 days; over Andaman & Nicobar Islands during 31st May- 03rd June; Tamil Nadu and South Interior Karnataka during 01st-03rd June, 2024.**
 - ✓ **Strong surface winds (speed reaching 30-40 kmph)** likely over Andaman & Nicobar Islands on 30th & 31st; over Coastal Andhra Pradesh & Yanam, Rayalaseema and Karnataka during 31st May-03rd June.
- ❖ A western disturbance seen as a trough in lower & middle tropospheric westerlies runs roughly along Long. 72°E to the north of Lat. 30°N. Under its influence:
 - ✓ Isolated to scattered light rainfall accompanied with **thunderstorm, lightning** very likely over Uttarakhand, Himachal Pradesh during 30th May-03rd June and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 30th & 31st May, 2024.
 - ✓ Isolated very light/light rainfall likely over plains of Northwest India during 30th May-03rd June.
 - ✓ **Duststorm** very likely over Rajasthan during 31st May-03rd June.
- ❖ **Strong surface winds (speed reaching 30-40 kmph)** likely over Gujarat State on 30th & 31st May.

Maximum temperature observation:

- ❖ **Areas having maximum temperatures greater than 42°C:** Yesterday, maximum temperatures were in the range of 46-50°C in most parts of Haryana-Chandigarh-Delhi; in many parts of West Rajasthan; in some parts of West Madhya Pradesh; in isolated pockets over East Madhya Pradesh, East Uttar Pradesh, Jharkhand, Odisha; in the range of 42-46°C in many parts of West Uttar Pradesh, Vidarbha; in some parts of Bihar, Chhattisgarh; in isolated pockets over Marathwada, Telangana, Coastal Andhra Pradesh. These were above normal by 3- 6°C over many parts of Northwest India and in some parts of Central & East India.

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

- ❖ **Heat wave to severe heat wave conditions** very likely in some parts of Punjab, Haryana-Chandigarh-Delhi and West Rajasthan on 30th and gradual reduction thereafter with heat wave conditions in isolated/some parts till 01st June, 2024.
- ❖ **Heat wave to severe heat wave conditions likely to reduce gradually over Northwest & Central India from 30th May.**
- ❖ **Heat wave to severe heat wave conditions** very likely in isolated pockets of Bihar, Jharkhand, Odisha on 30th and **isolated heat wave conditions** on 31st May & 01st June.
- ❖ **Heat wave conditions** very likely in isolated/some parts of East Rajasthan & Uttar Pradesh on 30th & 31st; Madhya Pradesh during 30th May-01st June; Vidarbha, Chhattisgarh, Jammu division, Himachal Pradesh on 30th May, 2024.
- ❖ **Hot and humid weather** very likely to prevail over isolated pockets of Konkan & Goa on 30th & 31st May, 2024.
- ❖ **Warm night conditions** in isolated pockets very likely to prevail over Uttar Pradesh, Bihar, Jharkhand, Odisha, Madhya Pradesh and Chhattisgarh on 30th May, 2024

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Kerala & Mahe; **at a few places** over Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, and **at isolated places** over Haryana, Delhi, Uttarakhand, West Bengal & Sikkim, Jammu & Kashmir, Himachal Pradesh.
- ❖ **Heavy Rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall with extremely heavy falls** observed at isolated places over Meghalaya; **Heavy rainfall** at isolated places over Sikkim, Kerala and Arunachal Pradesh.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Meghalaya:** Jaintia Hilla 21, West Khasi Hilla 13, East Khasi Hilla 12; **Kerala:** Ernakulam 10, Kannur 9, Alappuzha 9, Pathanamthitta -8, Kollam-6; **Sikkim:** Gangtok 7; **Arunachal Pradesh:** Papumpare 7; Nagaland, Manipur, Mizoram & Tripura: Phek 4, Lawngtlai 2.
- ❖ **Maximum wind speed** recorded (from 0830 hours IST to 1730 hours IST of yesterday) (in kmph): **Jammu & Kashmir:** Ladakh 80, Leh 55, Baramulla 48; **Harayan:** Sonipat 50, Mahendragarh 46; Delhi: east Delhi 54, Najafgarh 39; **Rajasthan:** Bikaner 52, Sikar 46, Jaipur 39; Gujrat State: Kachchh 61, Bhavnagar 54, Ahmedabad 52, Morbi 42, Anand 42; **Madhya Pradesh:** Sehore 41, Sagar 39; **Maharashtra:** Pune 59, Sangli 44, Jalna 41, Yavatmal 39.
- ❖ Yesterday, **heat wave to severe heat wave** conditions prevailed over many parts of Rajasthan, Haryana-Chandigarh-Delhi, Uttar Pradesh; in some parts of Bihar, Madhya Pradesh and Punjab. **Heat wave** conditions prevailed in some parts of Odisha, Chhattisgarh and Vidarbha. **Heat wave conditions** have been prevailing over Haryana, Chandigarh & Delhi, Rajasthan since 17th and over Madhya Pradesh & Uttar Pradesh since 18th May, 2024.
- ❖ **Minimum Temperature Departures (as on 29-05-2024):** Minimum temperatures were **markedly above normal (5.1°C or more)** at isolated places over West Rajasthan, Haryana-Chandigarh-Delhi, East Uttar Pradesh, Bihar, Chhattisgarh and East Madhya Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at many places over Odisha; at a few places over Jharkhand, Gangetic West Bengal and Vidarbha; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Konkan & Goa, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam; **above normal (1.6°C to 3.0°C)** at isolated places over Madhya Maharashtra, Gujarat state, East Rajasthan, Uttarakhand, Punjab, Rayalaseema and Nagaland, Manipur, Mizoram & Tripura. These were **below normal (-1.6°C to -3.0°C)** at a few places over Telangana and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 23.0°C** was reported at **Bulandshahr (West Uttar Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 29-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Punjab, East Uttar Pradesh; a few places over Haryana-Chandigarh-Delhi, Jharkhand; at isolated places over Himachal Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at a few places over West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Odisha; isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, West Rajasthan, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam; **above normal (1.6°C to 3.0°C)** at isolated places over West Bengal & Sikkim, Telangana, Tamil Nadu, Puducherry & Karaikal, East Rajasthan, Konkan & Goa. These were **markedly below normal (-5.1°C or less)** at isolated places over Assam & Meghalaya; at isolated places over Nagaland, Manipur, Mizoram & Tripura; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Kerala & Mahe; **below normal (-1.6°C to -3.0°C)** at isolated places over Saurashtra & Kutch and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 48.8°C** was reported at **Rohtak (Haryana)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

❖ Further advance of Southwest Monsoon:

- The Northern Limit of Monsoon continues to pass through 08°N/60°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.
- **Conditions are favourable for Monsoon onset over Kerala today, the 30th May, 2024.**
- Conditions are 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; some more parts Southwest & Central Bay of Bengal, Northeast Bay of Bengal and some parts of Northeastern states today, the 30th May, 2024.

- ❖ The cyclonic circulation over northeast Assam & neighbourhood extending upto 5.8 km above mean sea level persists.
- ❖ The Western Disturbance as a trough in lower & middle tropospheric westerlies with its axis at 3.1 km above mean sea level now runs roughly along Long. 72°E to the north of Lat. 30°N.
- ❖ The cyclonic circulation over northwest Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over northwest Uttar Pradesh to west Bangladesh across north Madhya Pradesh, north Chhattisgarh, Jharkhand and West Bengal at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Westcentral Arabian Sea off Oman coast between 3.1 & 5.8 km above mean sea level persists.
- ❖ The shear zone roughly along Lat. 8°N over south peninsular India between 4.5 & 5.8 km above mean sea level persists.
- ❖ The trough in westerlies roughly along Long. 86°E to the north of Lat. 23°N at 1.5 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 06th June, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ **Gradual fall in maximum temperatures by 3-4°C very likely over Northwest & Central India during next 2-3 days.**
- ❖ Rise in maximum temperatures by 2-3°C very likely over East India during next 2 days and gradual fall by 3-4°C thereafter.
- ❖ Rise in maximum temperatures by 2-3°C very likely over Maharashtra and south peninsular India during next 2-3 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 06th-08th June, 2024)

- ❖ Scattered to fairly widespread rainfall likely over Islands, Northeast and Peninsular India. Isolated to Scattered to rainfall likely over Western Himalayan Region.
- ❖ Mainly dry weather likely to prevail over rest parts of the country.

Table-1

7 Days Rainfall Forecast

| S. No. | Subdivision | 30-May | 31-May | 01-Jun | 02-Jun | 03-Jun | 04-Jun | 05-Jun |
|--------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 |
| 1 | ANDAMAN & NICOBAR ISLANDS | WS | WS | WS | WS | FWS | FWS | FWS |
| 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 | FWS | FWS | FWS | FWS | WS | WS | WS |
| 5 | SUB-HIMALAYAN WEST BENGAL & SIKKIM | WS | WS | WS | WS | WS | WS | WS |
| 6 | GANGETIC WEST BENGAL | ISOL | ISOL | SCT | SCT | SCT | SCT | ISOL |
| 7 | ODISHA | ISOL | ISOL | SCT | SCT | SCT | SCT | ISOL |
| 8 | JHARKHAND | ISOL | ISOL | ISOL | SCT | SCT | ISOL | ISOL |
| 9 | BIHAR | ISOL | SCT | ISOL | ISOL | ISOL | ISOL | ISOL |
| 10 | EAST UTTAR PRADESH | ISOL | ISOL | ISOL | ISOL | ISOL | DRY | ISOL |
| 11 | WEST UTTAR PRADESH | DRY | ISOL | ISOL | DRY | DRY | DRY | DRY |
| 12 | UTTARAKHAND | SCT | SCT | SCT | SCT | SCT | ISOL | SCT |
| 13 | HARYANA CHANDIGARH & DELHI | ISOL | ISOL | ISOL | ISOL | ISOL | DRY | DRY |
| 14 | PUNJAB | ISOL | ISOL | SCT | ISOL | ISOL | DRY | ISOL |
| 15 | HIMACHAL PRADESH | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL |
| 16 | JAMMU & KASHMIR AND LADAKH | SCT | SCT | ISOL | ISOL | DRY | DRY | DRY |
| 17 | WEST RAJASTHAN | DRY | ISOL | ISOL | ISOL | DRY | DRY | DRY |
| 18 | EAST RAJASTHAN | DRY | ISOL | ISOL | ISOL | DRY | DRY | ISOL |
| 19 | WEST MADHYA PRADESH | DRY | DRY | DRY | DRY | ISOL | ISOL | DRY |
| 20 | EAST MADHYA PRADESH | DRY | DRY | DRY | ISOL | 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 | SCT |
| 24 | MADHYA MAHARASHTRA | DRY | ISOL | ISOL | ISOL | ISOL | ISOL | SCT |
| 25 | MARATHAWADA | DRY | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL |
| 26 | VIDARBHA | DRY | DRY | ISOL | ISOL | ISOL | ISOL | ISOL |
| 27 | CHHATTISGARH | DRY | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL |
| 28 | COASTAL ANDHRA PRADESH & YANAM | DRY | DRY | ISOL | SCT | SCT | ISOL | SCT |
| 29 | TELANGANA | DRY | ISOL | SCT | SCT | ISOL | ISOL | SCT |
| 30 | RAYALASEEMA | DRY | ISOL | SCT | SCT | SCT | SCT | FWS |
| 31 | TAMILNADU PUDUCHERRY & KARAIKAL | ISOL | SCT | SCT | SCT | ISOL | ISOL | ISOL |
| 32 | COASTAL KARNATAKA | SCT | SCT | SCT | FWS | FWS | FWS | WS |
| 33 | NORTH INTERIOR KARNATAKA | ISOL | ISOL | SCT | SCT | SCT | FWS | WS |
| 34 | SOUTH INTERIOR KARNATAKA | ISOL | SCT | SCT | SCT | FWS | FWS | WS |
| 35 | KERALA & MAHE | WS | 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

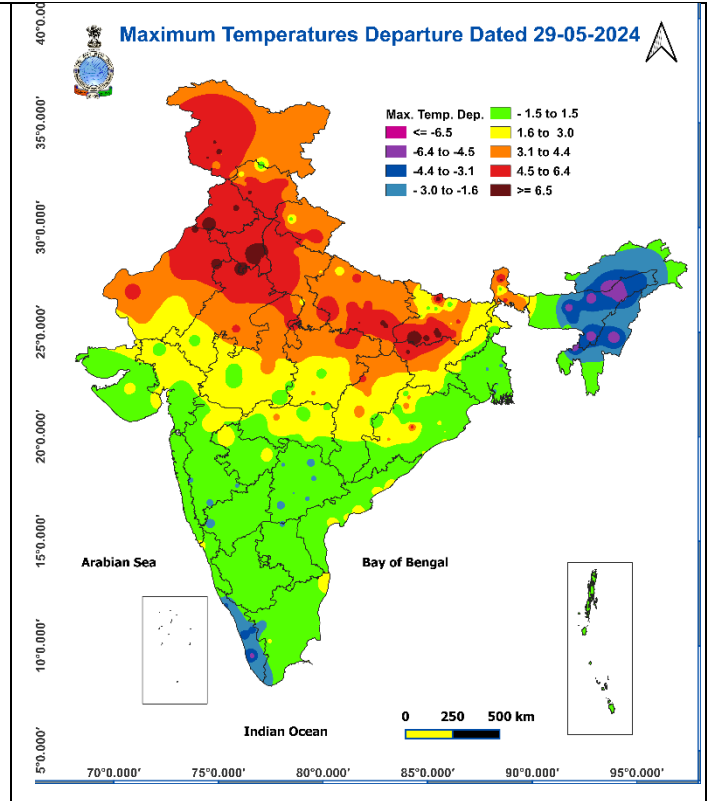
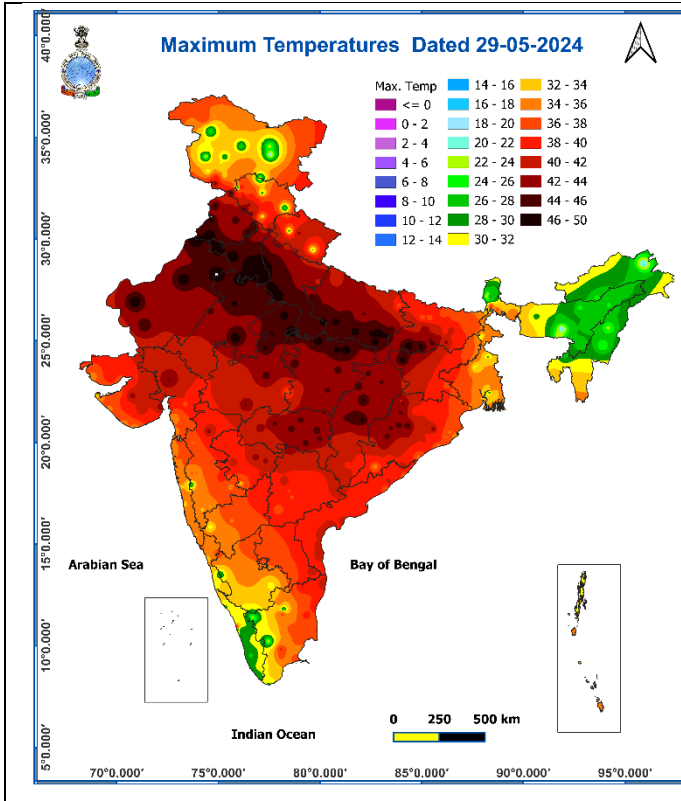


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

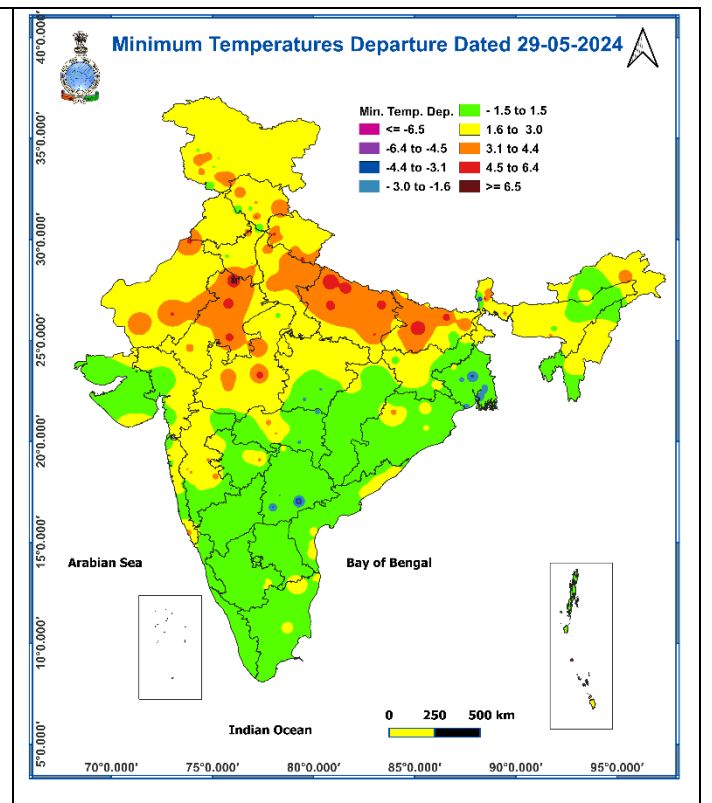
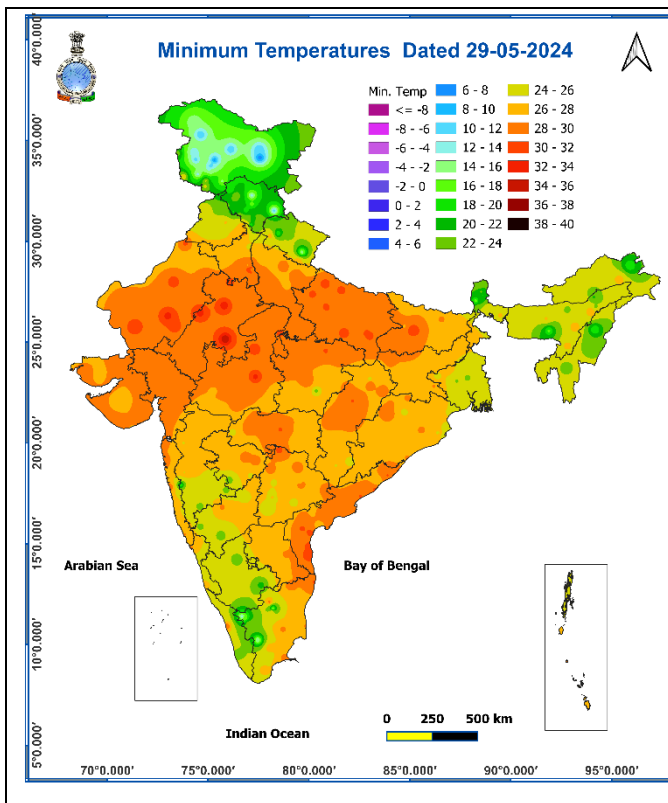
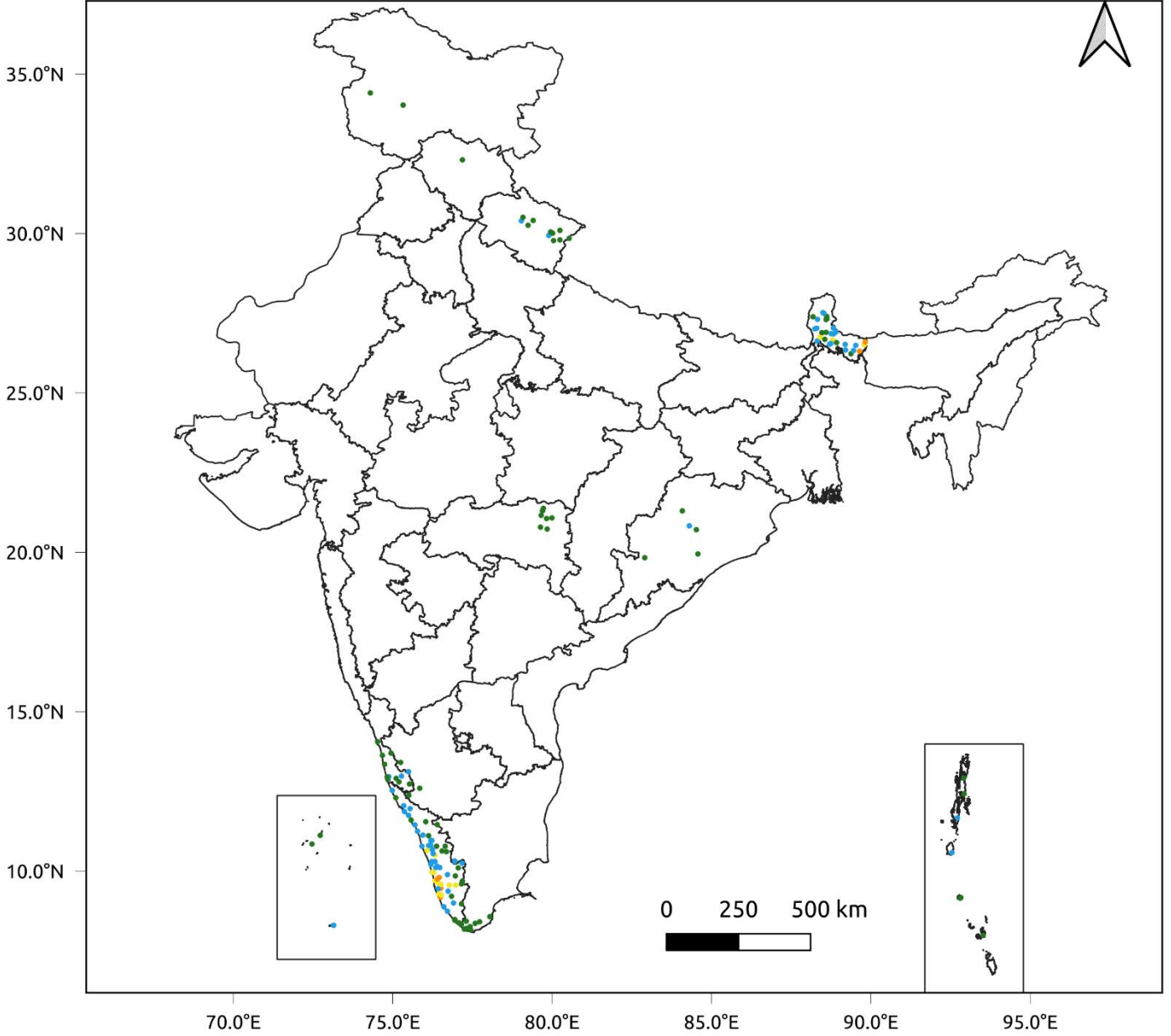


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



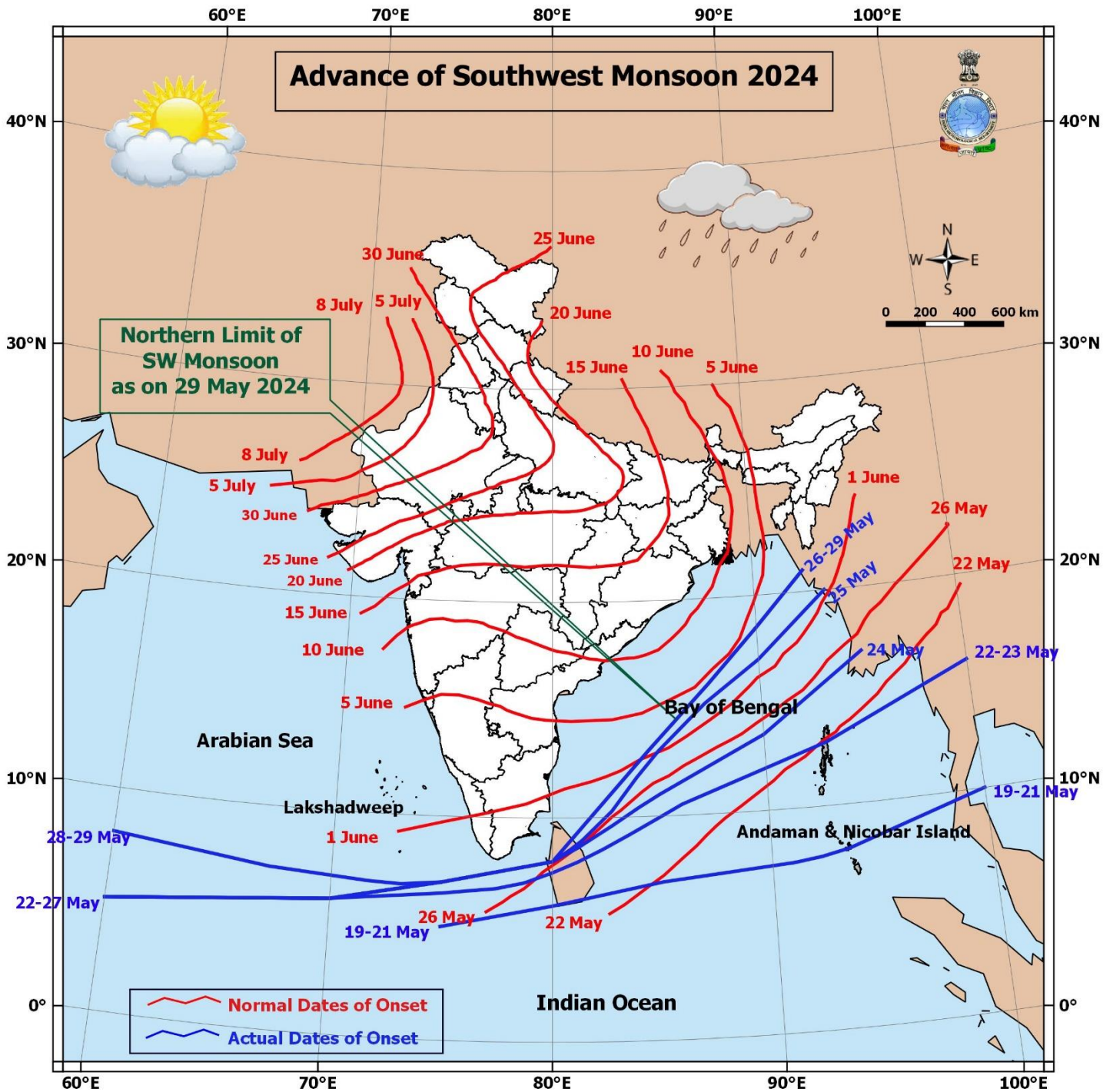
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 28-5-2024 to 0830 IST of 29-5-2024



Legends

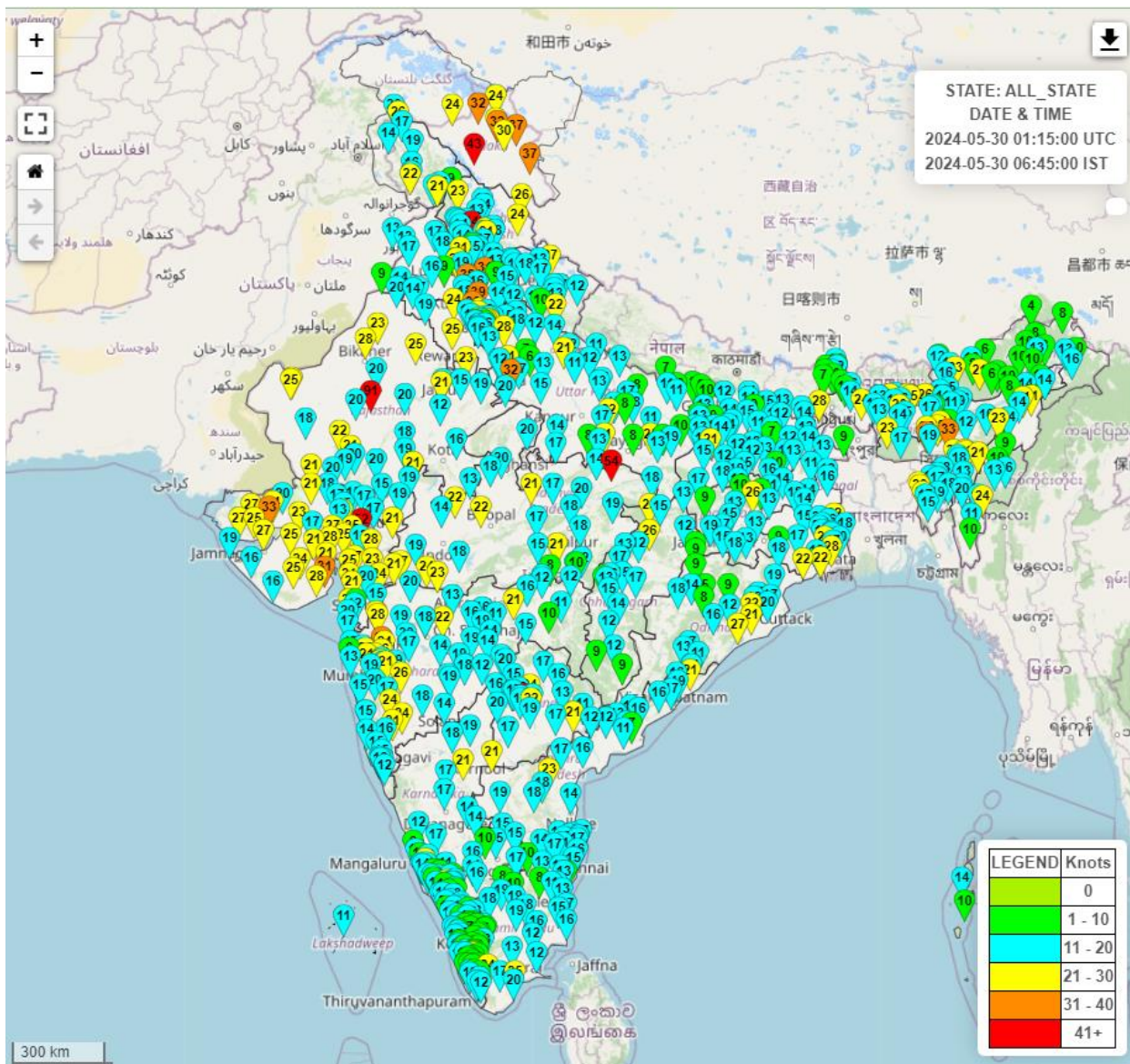
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



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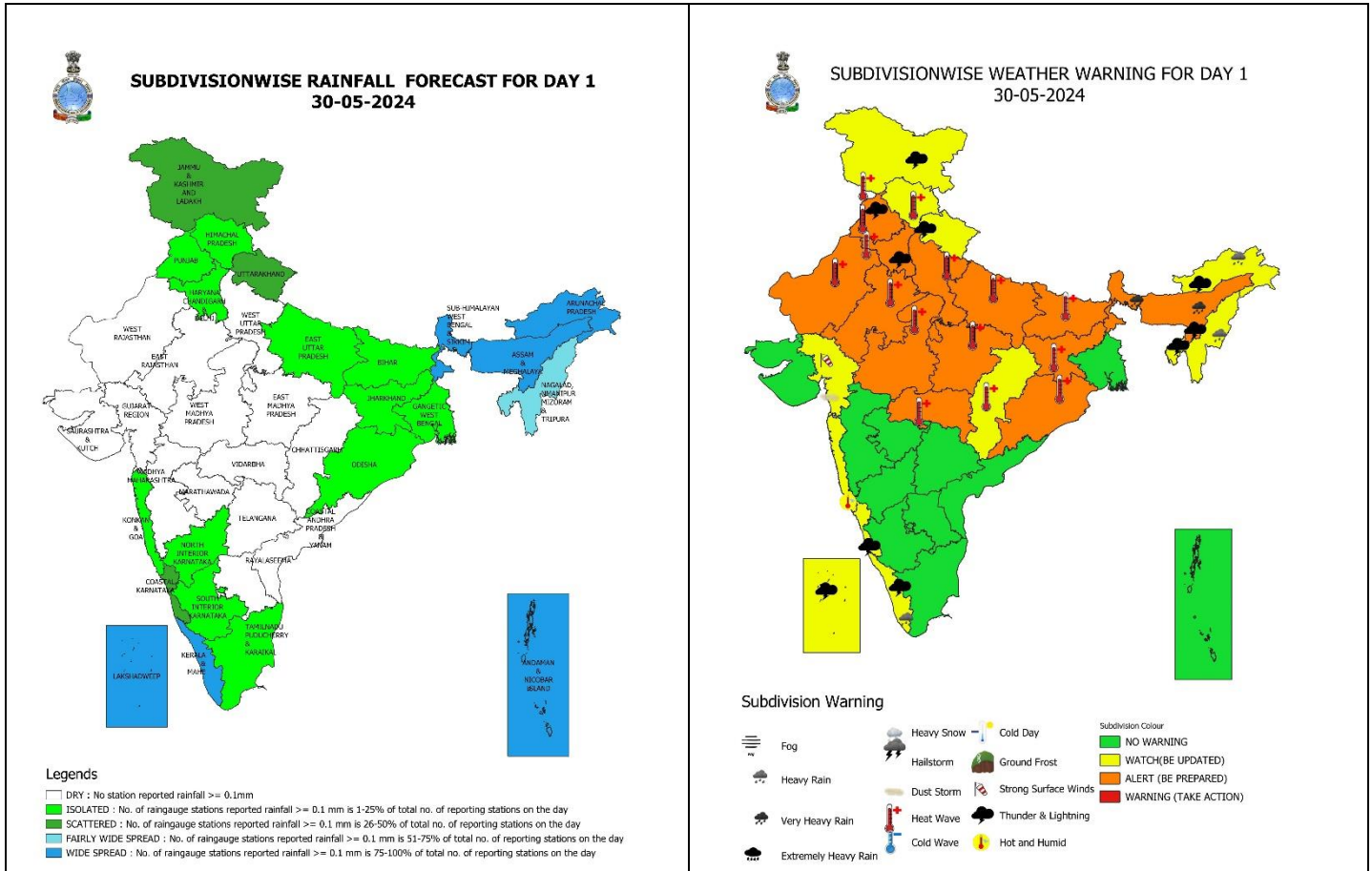
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST of 29.05.2024 to 0645 hours IST of 30.05.2024



1 Knot = 1.852 kmph

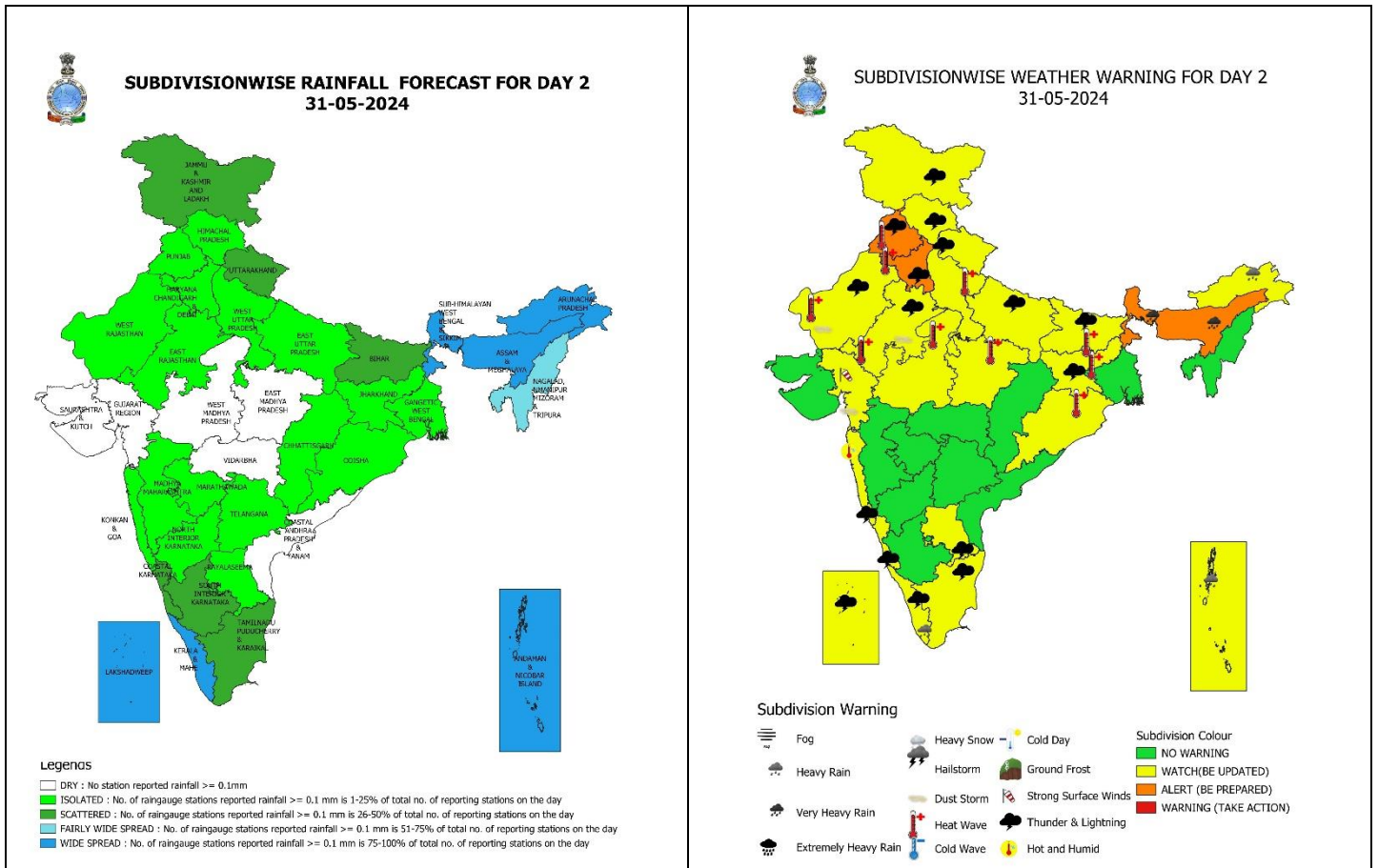
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30 May (Day 1):

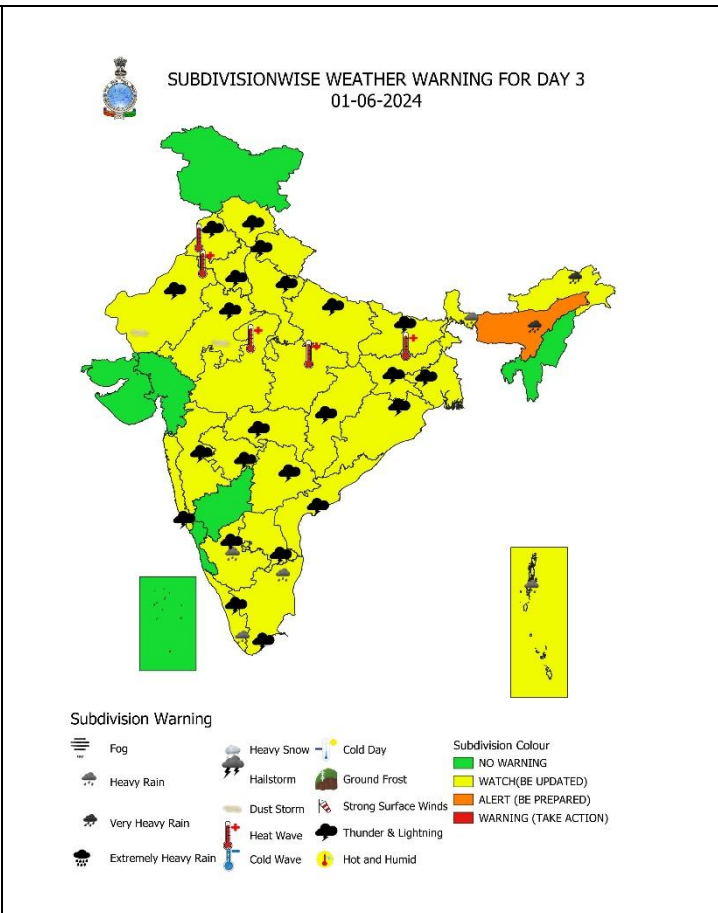
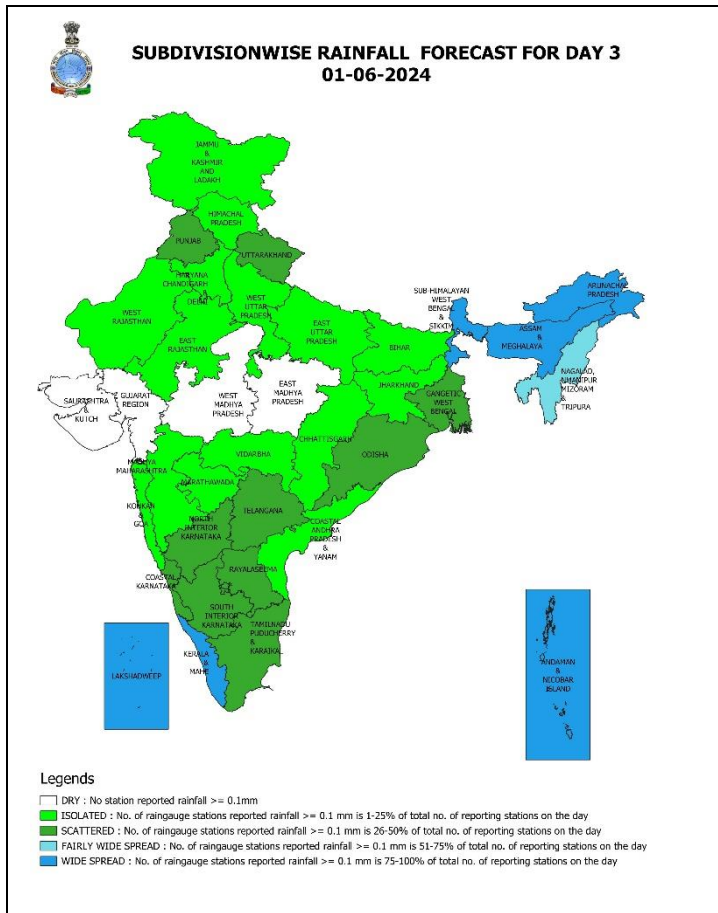
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya; **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, Assam & Meghalaya, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Arunachal Pradesh, Lakshadweep and Coastal Karnataka.
- ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Gujarat Region.
- ❖ **Heat Wave to severe heat wave Conditions** very likely to prevail in some parts of Punjab, Haryana-Chandigarh-Delhi and West Rajasthan; in isolated pockets over Bihar, Jharkhand and Odisha; **heat wave conditions** in few parts of Uttar Pradesh, East Rajasthan and Madhya Pradesh; in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Vidarbha and Chhattisgarh.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand and Odisha.
- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over southeast and adjoining southwest Arabian sea, Lakshadweep, Maldives area, Comorin area, along and off south Kerala and south Sri Lanka coasts, gulf of Mannar, south and adjoining central Bay of Bengal, along and off West Bengal and Odisha coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over Comorin area & adjoining Maldives area, southern parts of southwest Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and adjoining westcentral Arabian sea, eastern parts of northeast Arabian sea. Fishermen are advised not to venture into these areas.



31 May (Day 2):

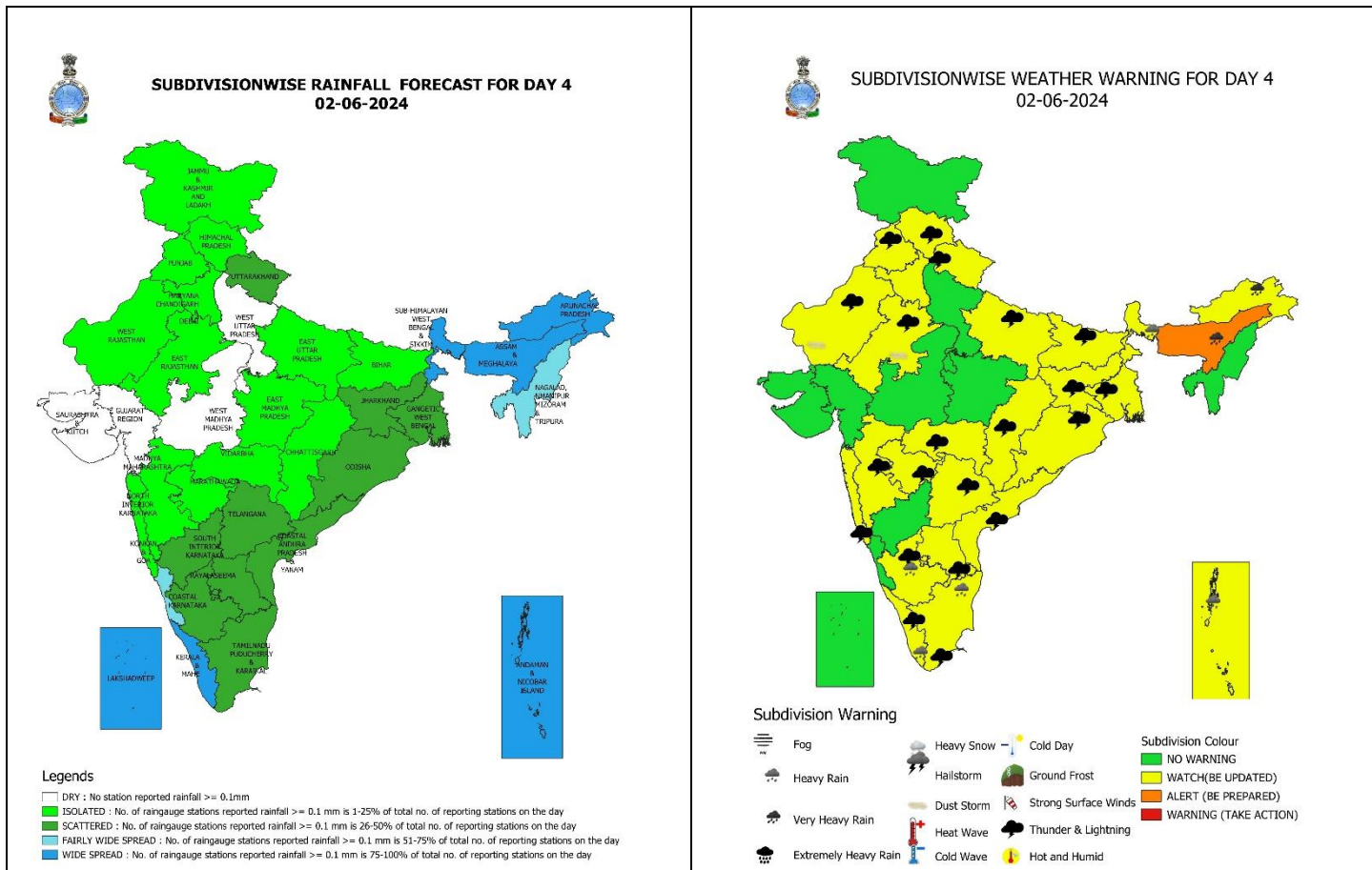
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh and Kerala & Mahe.
 - ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Uttarakhand and Rajasthan; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Haryana-Chandigarh-Delhi, Punjab, East Uttar Pradesh, Bihar, Jharkhand and Kerala & Mahe; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Rayalaseema and Coastal Karnataka.
 - ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Gujarat Region and Rajasthan.
 - ❖ **Heat wave conditions** very likely to prevail in few places over Punjab and Haryana-Chandigarh-Delhi; in isolated pockets over West Uttar Pradesh, Rajasthan, Madhya Pradesh, Bihar, Odisha and Jharkhand.
 - ❖ **Warm night conditions** very likely to prevail in isolated pockets over Punjab and Haryana-Chandigarh-Delhi.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over Comorin area, Gulf of Mannar, along and off south Kerala and Sri Lanka coasts, southeast and southern parts of southwest bob. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and adjoining westcentral Arabian sea, eastern parts of northeast Arabian sea. Fishermen are advised not to venture into these areas.

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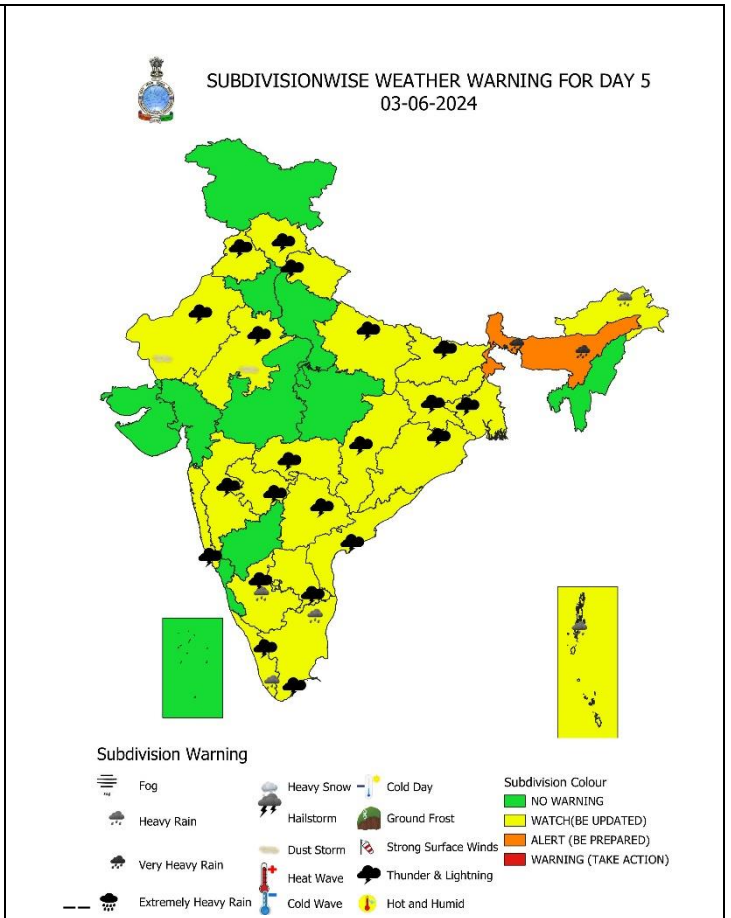
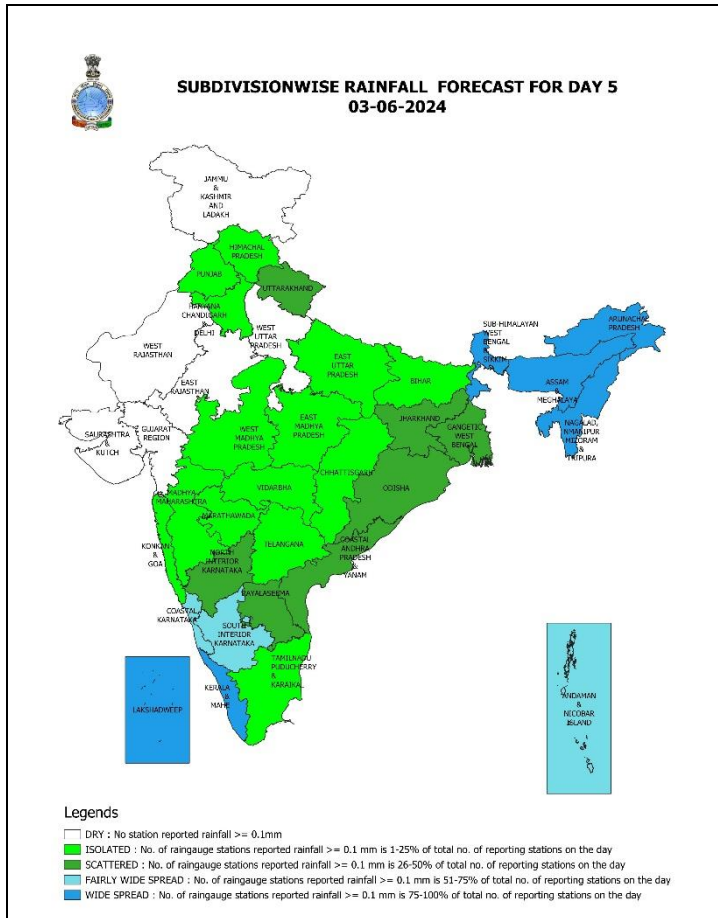
01 June (Day 3):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya and Arunachal Pradesh; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
 - ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 50-60 kmph)** very likely at isolated places over Rajasthan; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Uttarakhand, Gangetic West Bengal, Bihar, Jharkhand, Chhattisgarh and Odisha; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Vidarbha, Kerala & Mahe and Telangana; **with lightning** at isolated places over Himachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka .
 - ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Rajasthan.
 - ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Madhya Pradesh and Bihar.
 - ❖ **Warm night conditions** very likely to prevail in isolated pockets over Punjab and Haryana-Chandigarh-Delhi.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over along and off south Sri Lanka coast, southeast bob and southern parts of southwest Bay of Bengal, Andaman Sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and adjoining westcentral Arabian sea, off Yemen coast, eastern parts of northeast Arabian sea. Fishermen are advised not to venture into these areas.



02 June (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya and Arunachal Pradesh; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Rajasthan, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand and Odisha; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, East Uttar Pradesh, Vidarbha, Kerala & Mahe and Telangana; **with lightning** at isolated places over Himachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka .
- ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Rajasthan.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Punjab and Haryana-Chandigarh-Delhi.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over along and off south Sri Lanka coast, southeast Bay of Bengal and adjoining southwest bob, Andaman Sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and westcentral Arabian sea, off Yemen coast. Fishermen are advised not to venture into these areas.

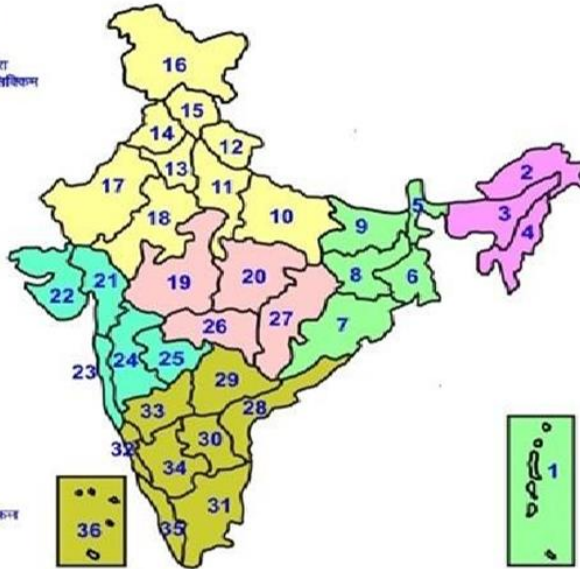


03 June (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over west Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Rajasthan, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand and Odisha; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, East Uttar Pradesh, Vidarbha, Kerala & Mahe and Telangana; **with lightning** at isolated places over Himachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka.
- ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Rajasthan.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over along and off south Sri Lanka coast, southeast Bay of Bengal and adjoining southwest bob, Andaman Sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and westcentral Arabian sea, off Yemen coast. 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 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 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 |

LEGENDS

WARNING

| |
|-------------------------|
| WARNING (TAKE ACTION) |
| ALERT (BE PREPARED) |
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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)

* 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)