

Friday, June 7, 2024
Time of Issue: 0745 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

- ❖ The Northern Limit of Monsoon continues to pass through 17.0°N/60°E, 17.0°N/65°E, 16.5°N/70°E, Ratnagiri, Solapur, Medak, Bhadrachalam, Vizianagaram, 19.5°N/88°E, 21.5°N/89.5°E, 23°N/89.5°E and Islampur.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of central Arabian Sea, remaining parts of Karnataka & Coastal Andhra Pradesh, some more parts of Maharashtra (including Mumbai), Telangana, some parts of south Chhattisgarh & South Odisha, remaining parts of Westcentral & more parts of Northwest Bay of Bengal during next 2-3 days.

Weather Systems and Forecast & Warnings:

- ❖ A cyclonic circulation lies over northeast Assam & neighbourhood in lower tropospheric levels. Strong southwesterly/southerly winds are prevailing from Bay of Bengal to northeastern States in lower tropospheric levels. Under their 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 5 days.
 - ✓ Isolated **heavy rainfall** very likely over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim during 07th-11th; Arunachal Pradesh during 08th-11th; Nagaland on 10th & 11th June, 2024.
- ❖ A cyclonic circulation lies over north Rayalaseema & neighbourhood in lower tropospheric levels and a shear zone runs roughly along 16°N in middle tropospheric levels. Under their influence:
 - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** likely over Konkan & Goa, Madhya Maharashtra, Marathwada, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka during next 5 days; Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 07th & 08th June, 2024.
 - ✓ Isolated **heavy rainfall** very likely over Konkan & Goa, Madhya Maharashtra during 07th-11th and Marathwada on 07th & 08th June, 2024.
 - ✓ Isolated **heavy rainfall** very likely over Interior Karnataka, Kerala & Mahe during 07th-09th; Coastal Karnataka during 08th-11th; Rayalaseema and Tamil Nadu, Puducherry & Karaikal on 07th; Coastal Andhra Pradesh on 09th & 10th; Telangana on 10th June, 2024.
 - ✓ Isolated **very heavy rainfall** very likely over Konkan & Goa during 08th-11th; Madhya Maharashtra during 09th-11th and Coastal Karnataka on 09th & 10th June.
- ❖ A cyclonic circulation lies over northwest Madhya Pradesh and a trough runs from this cyclonic circulation to West Bengal in lower tropospheric levels. Under their influence:
 - ✓ Isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Bihar, Jharkhand, Gangetic West Bengal during next 2 days; Odisha, Madhya Pradesh, Vidarbha, Chhattisgarh during next 4-5 days.
 - ✓ Isolated **hailstorm and squally winds (50-60 kmph)** very likely over West Madhya Pradesh on 07th & 08th June, 2024.
 - ✓ **Strong winds** (wind speed 25-35 kmph) very likely over Andaman & Nicobar Islands during next 5 days.
 - ✓ **Heavy rainfall** at isolated places likely over Odisha on 07th & 08th; Andaman & Nicobar Islands during 09th-11th June, 2024.
- ❖ A Western Disturbance seen as a cyclonic circulation over north Pakistan in lower tropospheric levels with trough in middle tropospheric westerlies roughly along Long. 65°E to the north of Lat. 30°N. Prevailing southwesterly winds from Arabian Sea over the plains of Northwest India are likely to continue during next 24 hours. Under their influence:
 - ✓ Scattered to fairly widespread light rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 07th June, 2024.
 - ✓ Isolated to scattered very light to light rainfall with **thunderstorm, lightning & gusty winds (40-50 kmph)** very likely over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan on 07th June, 2024.
 - ✓ **Duststorm** very likely over Rajasthan on 07th June, 2024.
 - ✓ Isolated **hailstorm** very likely over West Rajasthan on 07th June, 2024.

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

- ❖ Yesterday, **maximum temperatures** were in the range of 42-44°C over many parts of Madhya Pradesh; in some parts of Vidarbha; in isolated pockets of Haryana-Chandigarh-Delhi and West Uttar Pradesh and in the range of 40-42°C over some parts of Odisha; in isolated pockets of Chhattisgarh & Gujarat state.
- ❖ **Heat wave conditions** very likely in isolated pockets of northeast Madhya Pradesh and Jharkhand during 07th-11th; Punjab, Haryana, Bihar, Odisha during 08th-11th June, 2024.
- ❖ **Heat wave conditions** very likely in isolated pockets of Uttar Pradesh on 07th and **heat wave to severe heat wave conditions** in some parts over the region during 08th-11th June, 2024.
- ❖ **Hot and humid weather** very likely to prevail over isolated pockets of Bihar, Odisha on 07th; Gangetic West Bengal during 07th-11th June, 2024.

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Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

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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, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Andaman & Nicobar Islands and **at isolated places** over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Madhya Maharashtra, Konkan & Goa, Chhattisgarh, Telangana, Odisha, Jharkhand, East Uttar Pradesh, Arunachal Pradesh, Gangetic West Bengal, Jharkhand, Himachal Pradesh, East Madhya Pradesh.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall** at isolated places over Kerala & Mahe.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Kerala:** Wayanad 12, Kannur 4, Palakkad 3; **Tamil Nadu:** Namakkal 5, Salem 4, Ariyalur 3; **Telangana:** Peddapalli 5, Mahbubnagar, Nirmal 4 each; **Madhya Maharashtra:** Pune 3, Nashik 2; **Chhattisgarh:** Jashpur 3.
- ❖ **Minimum Temperature Departures (as on 06-06-2024):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Odisha, Kerala & Mahe, Lakshadweep; at isolated places southeast Rajasthan, Gujarat Region, central East Madhya Pradesh, Madhya Maharashtra, north Konkan, Chhattisgarh, Andaman & Nicobar Islands. These were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over East Uttar Pradesh, Punjab; at isolated places over West Rajasthan, Haryana-Chandigarh, West Uttar Pradesh, Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Delhi, Telangana, Himachal Pradesh; at isolated places over Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Marathwada, West Madhya Pradesh and Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 20.5°C was reported at **Motihari (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 06-06-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over am; **above normal (1.6°C to 3.0°C)** at many places over Konkan & Goa; at a few places over Odisha; at isolated places over Kerala & Mahe, Chhattisgarh, Gujarat state, East Madhya Pradesh. These were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands; at isolated places over Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **below normal (-1.6°C to -3.0°C)** at a few places over Telangana; at isolated places over West Madhya Pradesh, East Uttar Pradesh, Bihar and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 45.2°C was reported at **Orai (West Uttar Pradesh)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon continues to pass through 17.0°N/60°E, 17.0°N/65°E, 16.5°N/70°E, Ratnagiri, Solapur, Medak, Bhadrachalam, Vizianagaram, 19.5°N/88°E, 21.5°N/89.5°E, 23°N/89.5°E and Islampur.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of central Arabian Sea, remaining parts of Karnataka & Coastal Andhra Pradesh, some more parts of Maharashtra (including Mumbai), Telangana, some parts of south Chhattisgarh & South Odisha, remaining parts of Westcentral & more parts of Northwest Bay of Bengal during next 2-3 days.
- ❖ The Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood at 3.1 with a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 65°E to the north of Lat. 30°N persists.
- ❖ The cyclonic circulation over southwest Rajasthan at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northwest Madhya Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The east-west trough from above cyclonic circulation over northwest Madhya Pradesh to West Bengal across East Madhya Pradesh & Jharkhand at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over south Gujarat & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over north Rayalaseema & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The shear zone roughly along 16°N between 4.5 km & 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over north Bangladesh & neighbourhood extending upto 3.1 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 Eastcentral Bay of Bengal adjoining Myanmar coast between 3.1 km & 5.8 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 14th June, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Rise in maximum temperatures by 2-3°C very likely over East India during next 2 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over northwest India during next 2 days and rise by about 2-3°C thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.
- ❖ Thunderstorm lightning and gusty wind likely over south peninsular India during next 3-4 days.

Weather Outlook for subsequent 3 days (During 14th-16th June, 2024)

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

Table-1

7 Days Rainfall Forecast

S. No.	Subdivision	07-Jun	08-Jun	09-Jun	10-Jun	11-Jun	12-Jun	13-Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	FWS	FWS	FWS	WS	WS	WS
2	ARUNACHAL PRADESH	SCT	FWS	FWS	FWS	FWS	FWS	WS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	FWS	WS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
7	ODISHA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
9	BIHAR	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	DRY	ISOL
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	SCT	SCT	ISOL	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	SCT	ISOL	ISOL	DRY	DRY	DRY	ISOL
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION	ISOL	ISOL	SCT	ISOL	SCT	SCT	FWS
22	SAURASHTRA & KUTCH	DRY	ISOL	ISOL	ISOL	SCT	SCT	SCT
23	KONKAN & GOA	FWS	FWS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	FWS	FWS	WS	FWS	SCT	SCT
25	MARATHAWADA	FWS	FWS	SCT	SCT	SCT	ISOL	ISOL
26	VIDARBHA	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
28	COASTAL ANDHRA PRADESH & YANAM	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
29	TELANGANA	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
30	RAYALASEEMA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	FWS	WS
33	NORTH INTERIOR KARNATAKA	FWS	SCT	SCT	SCT	SCT	SCT	ISOL
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	SCT	SCT	SCT	SCT	ISOL
35	KERALA & MAHE	WS	WS	WS	WS	FWS	FWS	FWS
36	LAKSHADWEEP	WS	WS	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

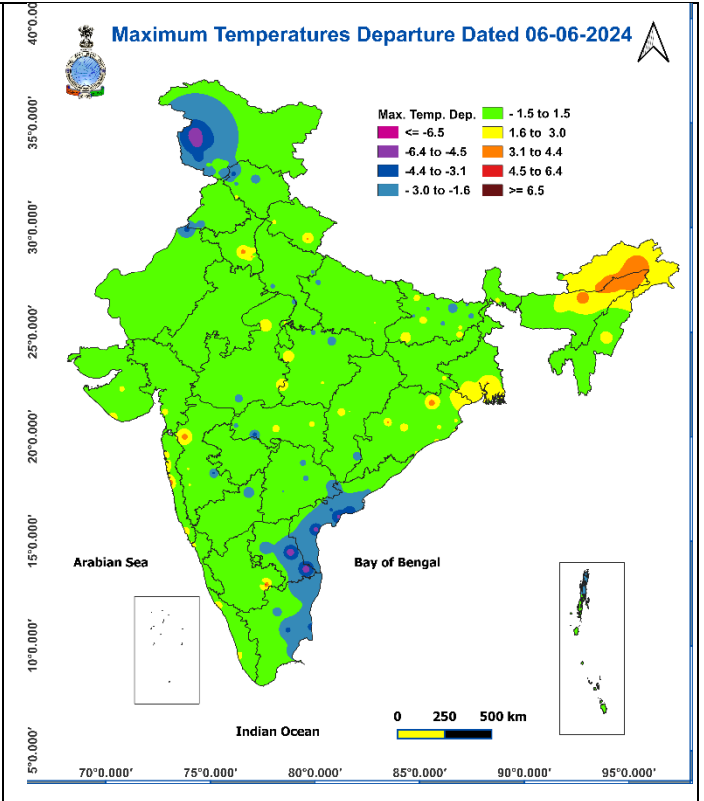
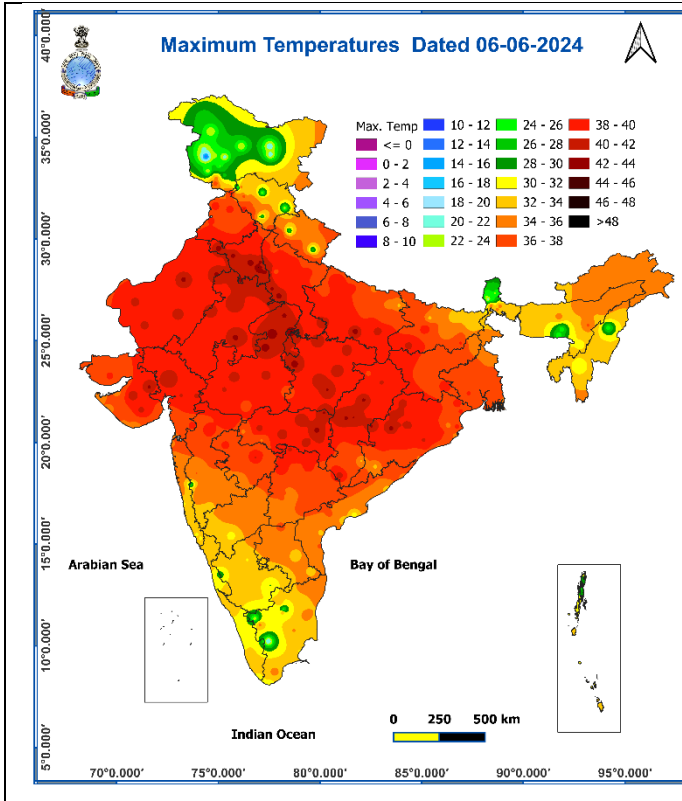


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

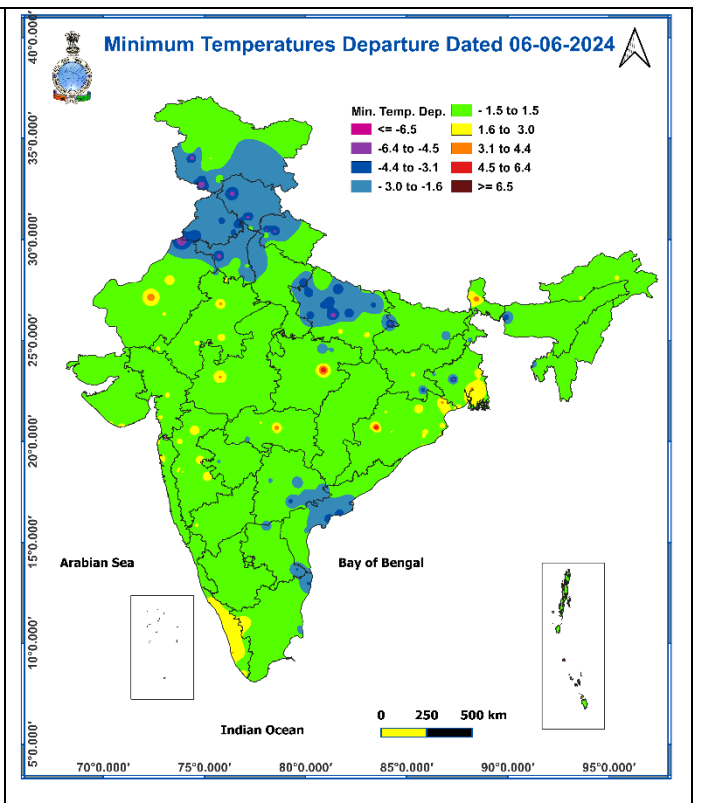
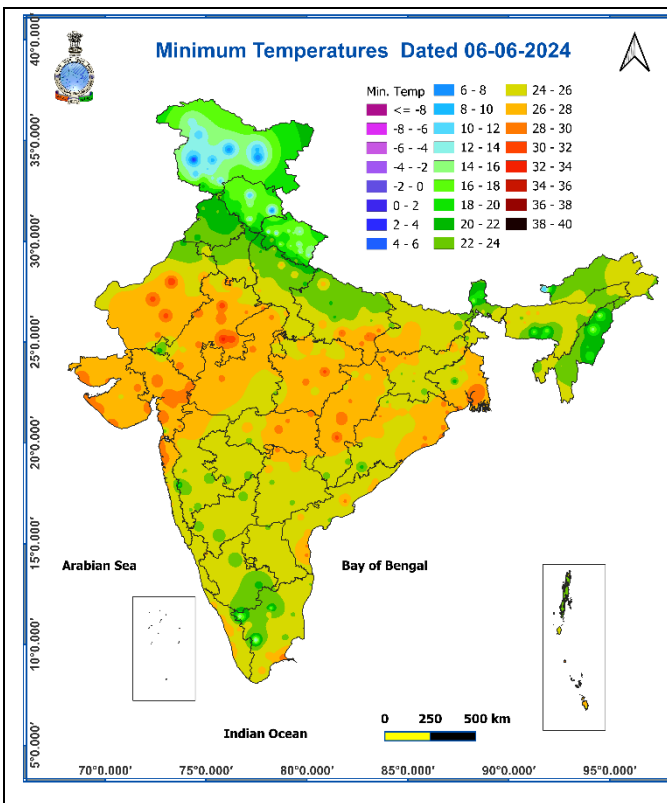
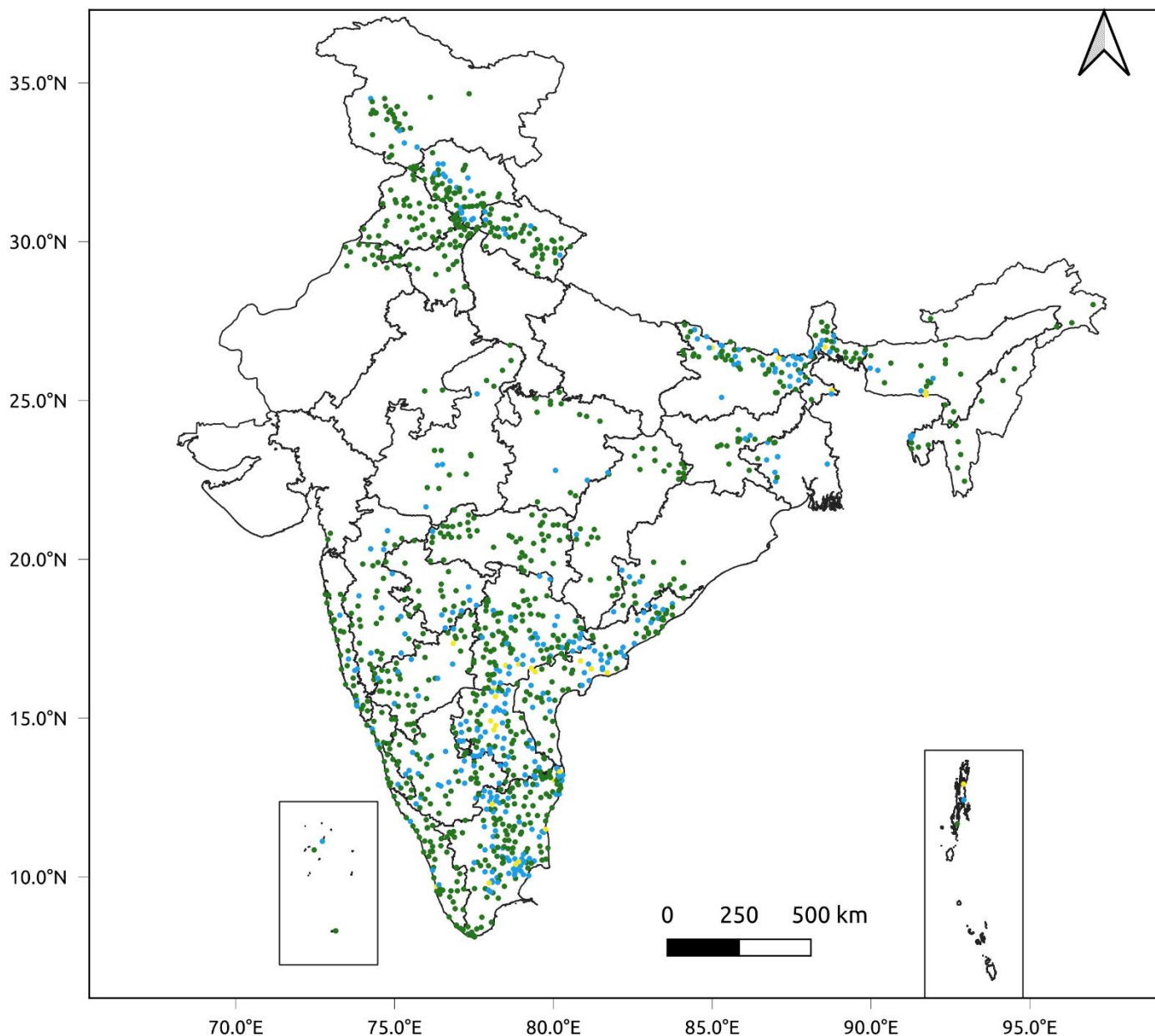


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



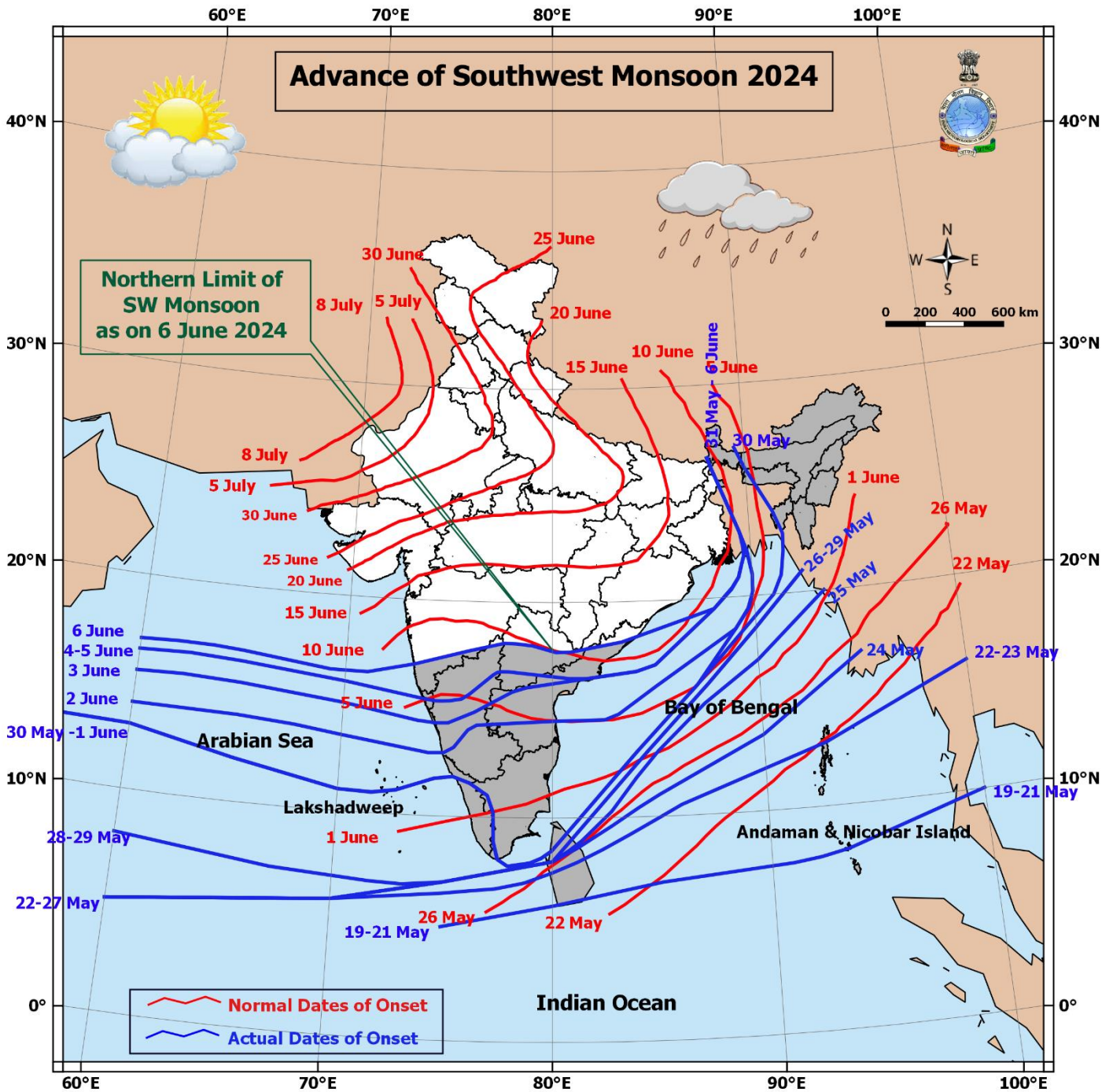
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 5-6-2024 to 0830 IST of 6-6-2024



Legends

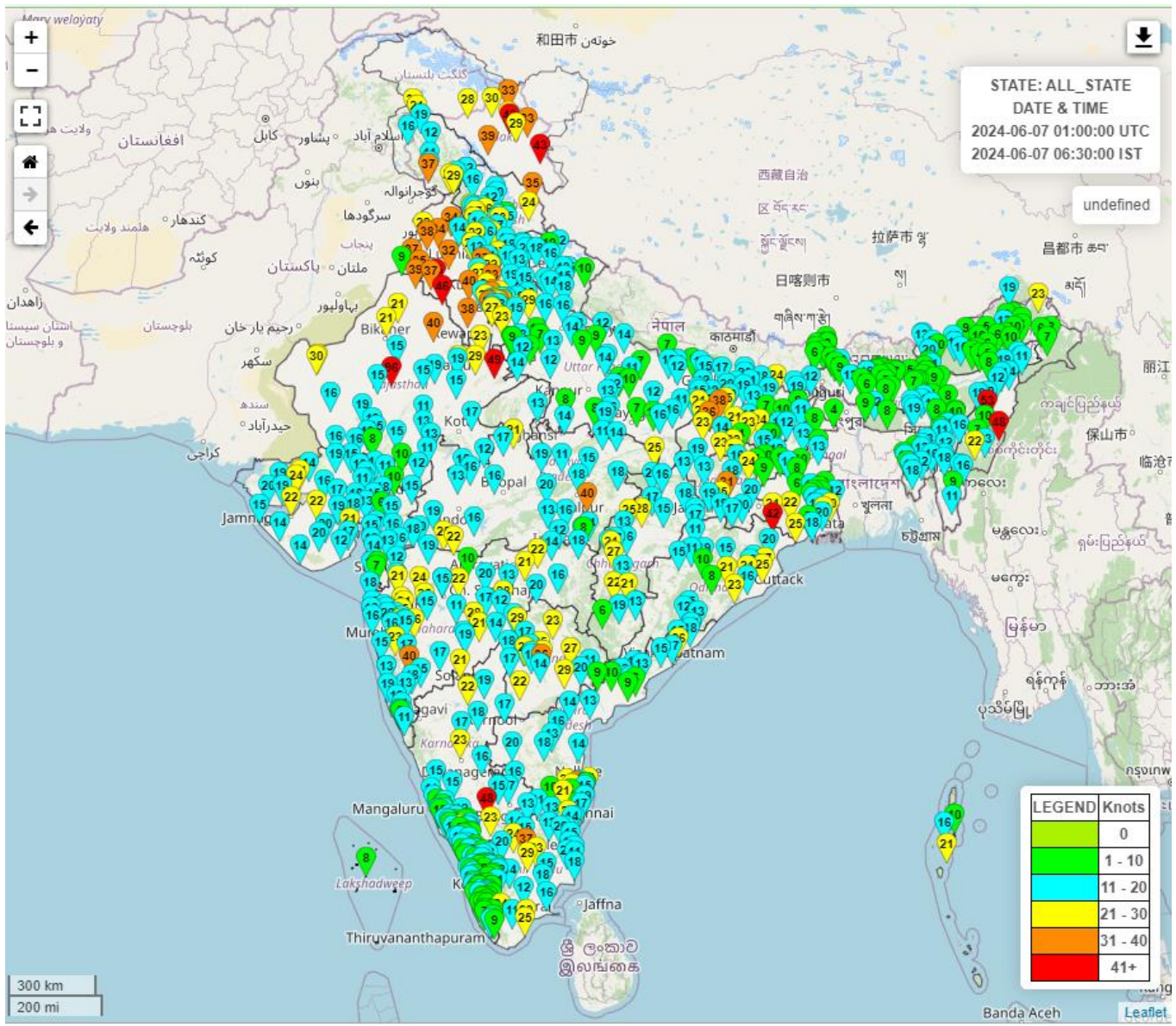
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



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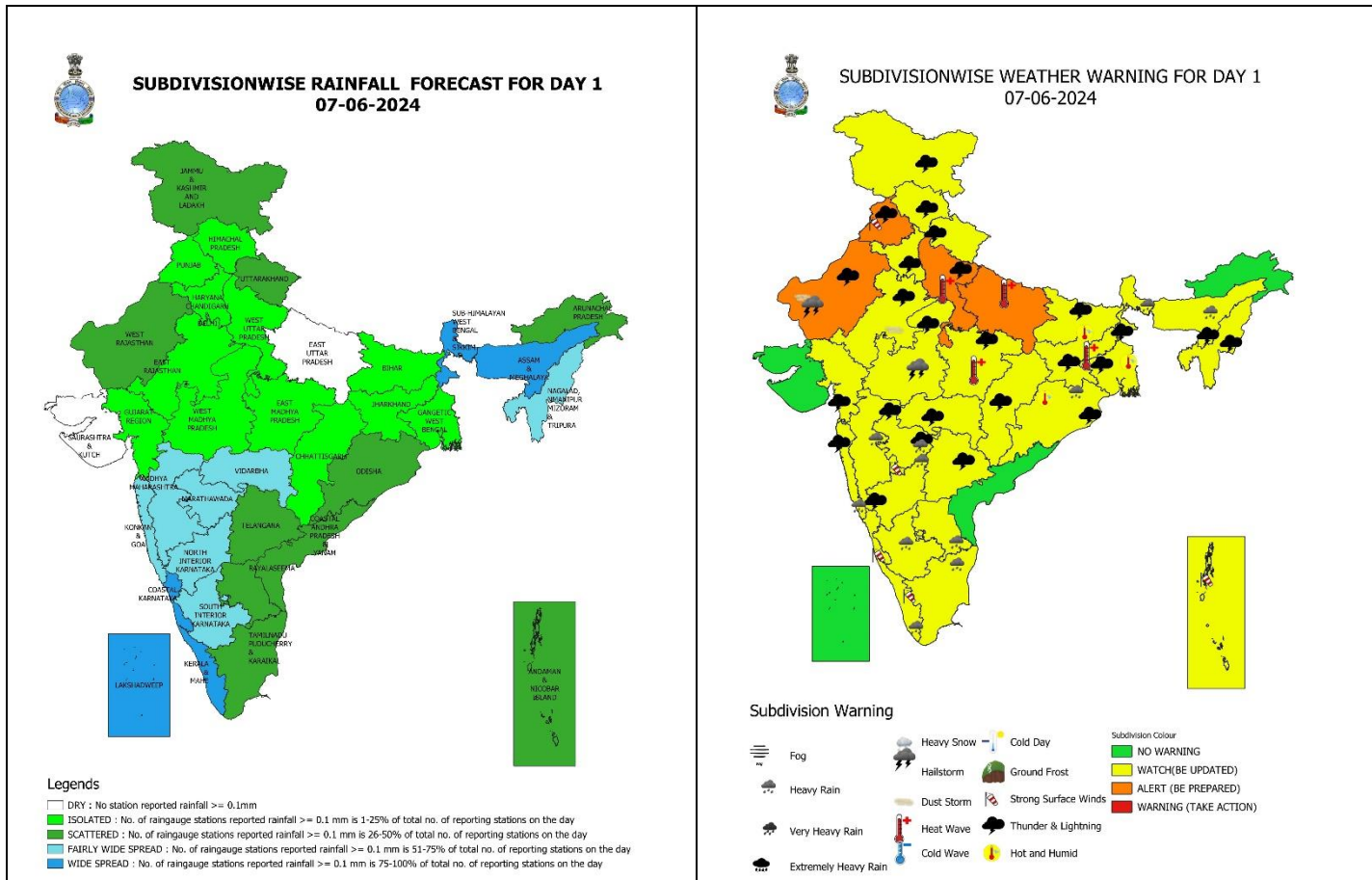
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST of 06.06.2024 to 0630 hours IST of 07.06.2024



1 Knot = 1.852 kmph

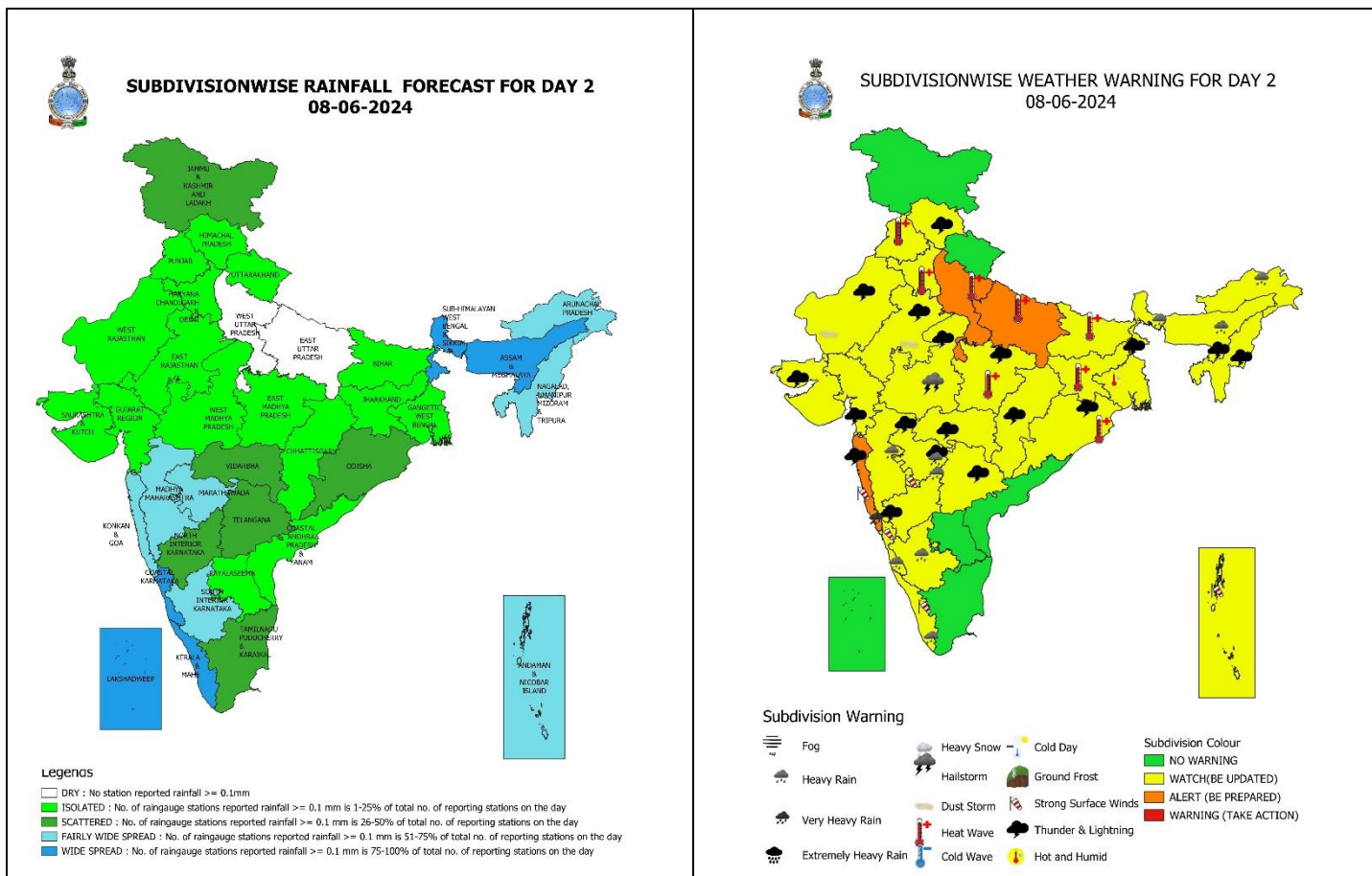
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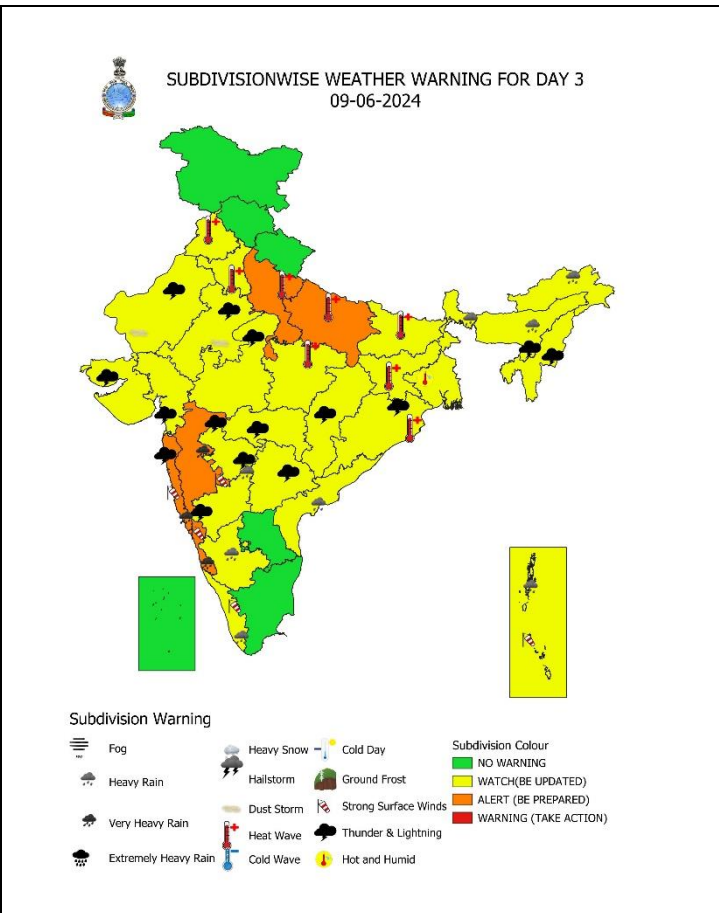
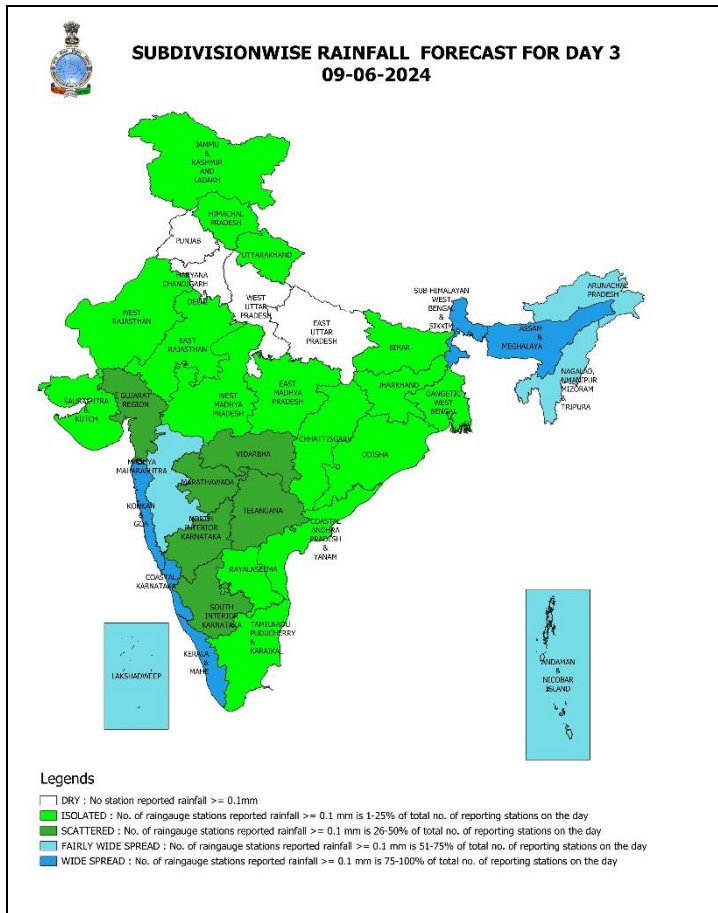
07 June (Day 1):

- ❖ **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Marathwada, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning, hail & squally winds (speed reaching 50-60 kmph)** very likely at isolated places over West Madhya Pradesh, West Rajasthan; **with lightning & squally winds (speed reaching 50-60 kmph)** at isolated places over Punjab, Haryana-Chandigarh-Delhi; **with lightning, gusty winds (speed reaching 40-50 kmph) & hail** at isolated places over Uttarakhand, East Madhya Pradesh, Bihar, Konkan & Goa, Madhya Maharashtra, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Jharkhand, Odisha, North Interior Karnataka, Telangana, Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya and Gujarat Region.
- ❖ **Thunderstorm/Duststorm** accompanied with **lightning & squall (speed reaching 50-60 kmph)** very likely at isolated places Punjab, West Rajasthan; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Rajasthan.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets of Uttar Pradesh, Madhya Pradesh and Jharkhand.
- ❖ **Hot and humid weather** very likely to prevail over Gangetic West Bengal, Bihar and Odisha.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail along and off Maharashtra, Konkan, Goa, Karnataka, Kerala coasts, over Lakshadweep, Comorin areas, Gulf of Mannar, off Sri Lanka, off Tamil Nadu coasts, central and adjoining south bob, north and man sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off Somalia coast, southwest and adjoining west central Arabian sea. Fishermen are advised not to venture into these areas.



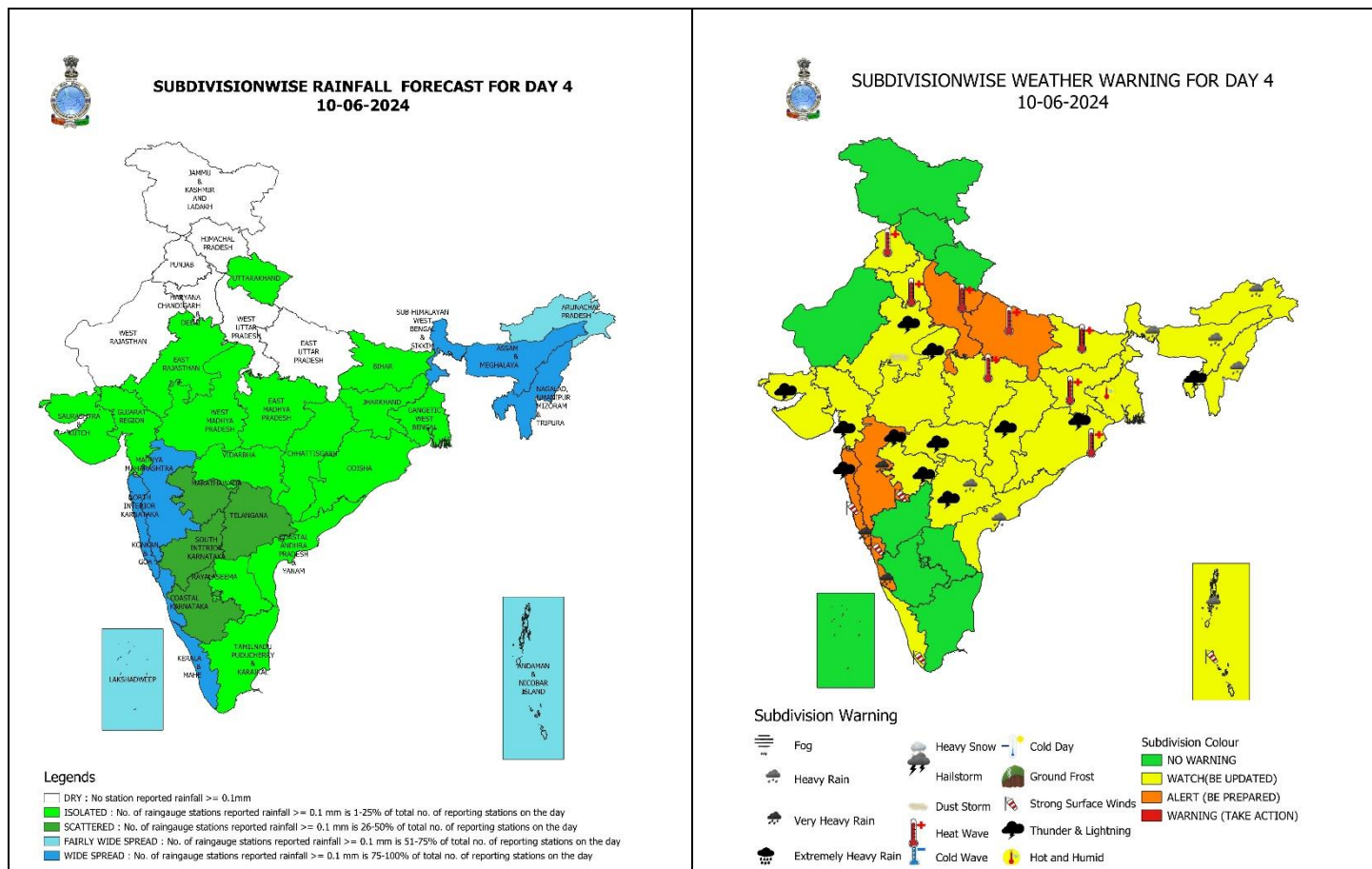
08 June (Day 2):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Konkan & Goa; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Kerala & Mahe and Karnataka.
- ❖ **Thunderstorm accompanied with lightning, hail & squall (speed reaching 50-60 kmph)** very likely at isolated places over West Madhya Pradesh; **with lightning & squall (speed reaching 50-60 kmph)** at isolated places over Konkan & Goa, Madhya Maharashtra; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Madhya Pradesh, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, North Interior Karnataka and Telangana; **with lightning** at isolated places over Assam & Meghalaya and Gujarat state.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in some parts of Uttar Pradesh; **heat wave conditions** to prevail in isolated pockets of Punjab, Haryana-Chandigarh, East Madhya Pradesh, Bihar, Jharkhand and Odisha.
- ❖ **Hot and humid weather** very likely to prevail over Gangetic West Bengal.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail along and off Maharashtra, Konkan, goa, Karnataka, Kerala coasts, over Lakshadweep, Comorin areas, gulf of Mannar, off Sri Lanka, off Tamil Nadu, off Andhra Pradesh coasts, central and adjoining south bob, north andman sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off Somalia coast, southwest and adjoining west central Arabian sea. Fishermen are advised not to venture into these areas.



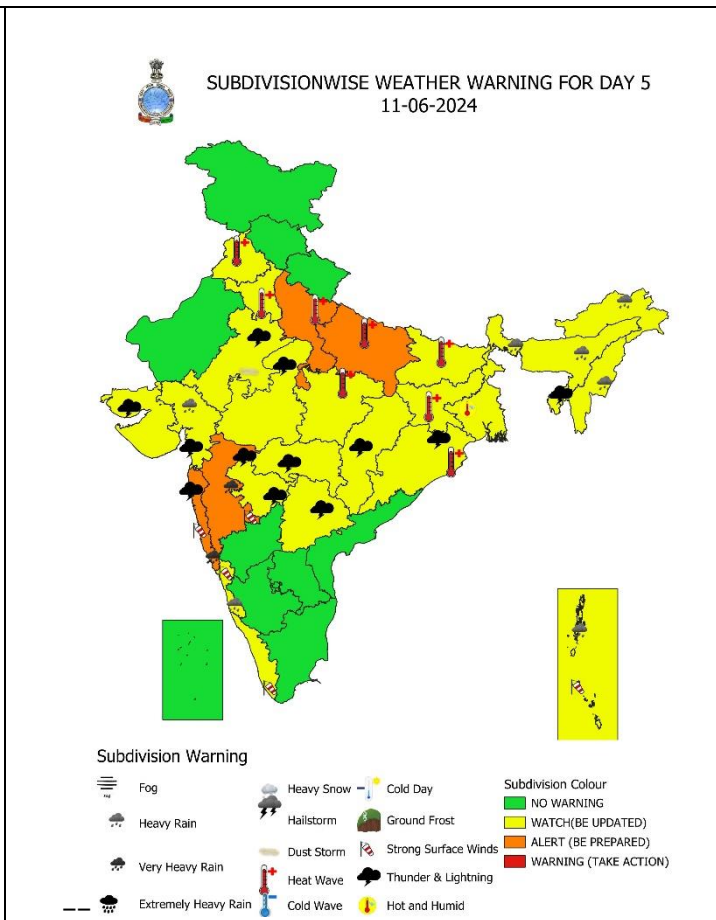
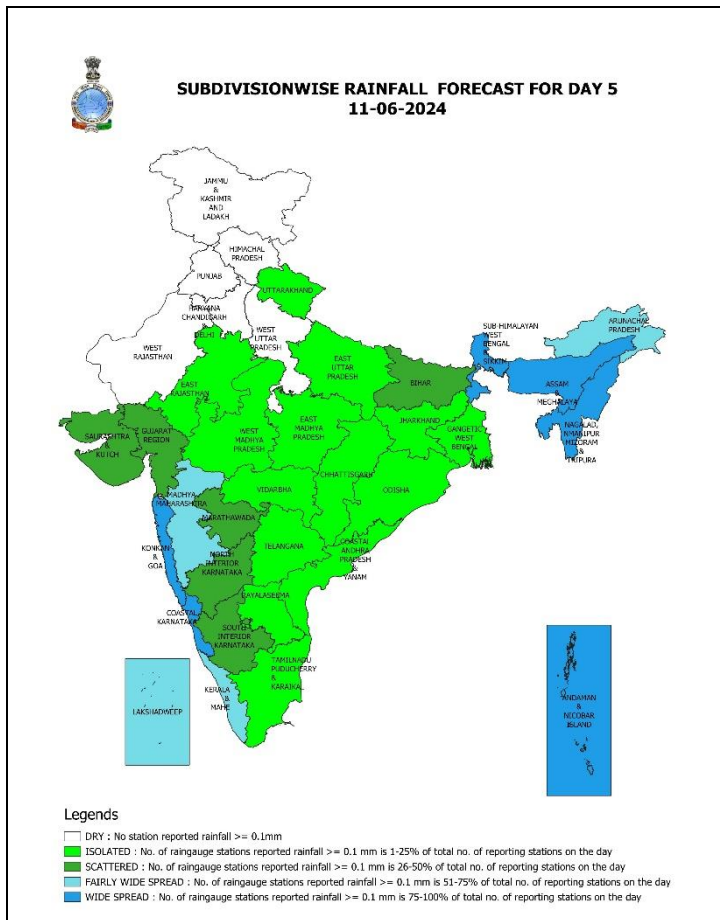
09 June (Day 3):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Konkan & Goa, Madhya Maharashtra and Coastal Karnataka; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Interior Karnataka and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph)** very likely at isolated places over Konkan & Goa, Madhya Maharashtra; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over West Madhya Pradesh, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Vidarbha, Chhattisgarh, Odisha, North Interior Karnataka and Telangana; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat state.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in some parts of Uttar Pradesh; **heat wave conditions** to prevail in isolated pockets of Punjab, Haryana-Chandigarh, East Madhya Pradesh, Bihar, Jharkhand and Odisha.
- ❖ **Hot and humid weather** very likely to prevail over Gangetic West Bengal.
- ❖ **squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail along and off Maharashtra, Konkan, goa, Karnataka, Kerala coasts, over Lakshadweep, Comorin areas, gulf of Mannar, off Sri Lanka, off Tamil Nadu, off Andhra Pradesh coasts, central and adjoining south bob, north andman sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off Somalia coast, southwest and adjoining west central Arabian sea. Fishermen are advised not to venture into these areas.



10 June (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Karnataka; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph)** likely at isolated places over Konkan & Goa, Madhya Maharashtra; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over West Madhya Pradesh, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Vidarbha, Chhattisgarh, Odisha, North Interior Karnataka and Telangana; **with lightning** at isolated places over Nagaland, Manipur, Mizoram & Tripura and Gujarat state.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over East Rajasthan.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in some parts of Uttar Pradesh; **heat wave conditions** to prevail in isolated pockets of Punjab, Haryana-Chandigarh, East Madhya Pradesh, Bihar, Jharkhand and Odisha.
- ❖ **Hot and humid weather** likely to prevail over Gangetic West Bengal.
- ❖ **squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Maharashtra, Konkan, Goa, Karnataka, Kerala coasts, over Lakshadweep, Comorin areas, gulf of Mannar, off Sri Lanka, off Tamil Nadu, off Andhra Pradesh coasts, central and adjoining south bob, north andman 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 west central Arabian sea. Fishermen are advised not to venture into these areas.

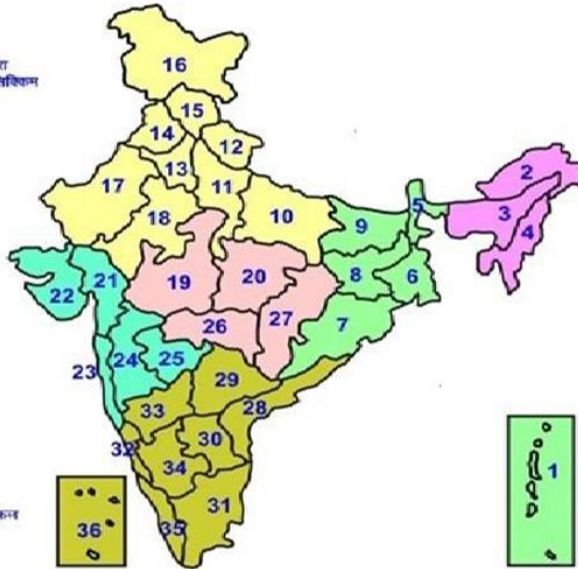


11 June (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa and Madhya Maharashtra; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, south Gujarat Region, Coastal Karnataka and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph)** likely at isolated places over Konkan & Goa, Madhya Maharashtra; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over West Madhya Pradesh, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Vidarbha, Chhattisgarh, Odisha, North Interior Karnataka and Telangana; **with lightning** at isolated places over Nagaland, Manipur, Mizoram & Tripura and Gujarat state.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over East Rajasthan.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in some parts of Uttar Pradesh; **heat wave conditions** to prevail in isolated pockets of Punjab, Haryana-Chandigarh, East Madhya Pradesh, Bihar, Jharkhand and Odisha.
- ❖ **Hot and humid weather** likely to prevail over Gangetic West Bengal.
- ❖ **squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Maharashtra, Konkan, goa, Karnataka, Kerala coasts, over Lakshadweep, Comorin areas, gulf of Mannar, off Sri Lanka, off Tamil Nadu, off Andhra Pradesh coasts, central and adjoining south bob, north andman 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 west central Arabian sea. 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 सागरा
- 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 उत्तरी कर्नाटक
- 32 दक्षिणी कर्नाटक
- 33 उत्तरी 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)
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



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

Rain/ Snow *



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)