

Wednesday, June 26, 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 23°N/60°E, 23°N/65°E, Mundra, Mehsana, Udaipur, Shivpuri, Lalitpur, Siddhi, Chaibasa, Haldia, Pakur, Sahibganj and Raxaul.
- ❖ Conditions are likely to become favourable for further advance of Southwest Monsoon into remaining parts of North Arabian Sea, Gujarat State, Madhya Pradesh; some more parts of Rajasthan; remaining parts of Chhattisgarh, West Bengal, Jharkhand and Bihar; most parts of East Uttar Pradesh; some more parts of West Uttar Pradesh; some parts of Uttarakhand, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, northern parts of Punjab and northern parts of Haryana during next 3-4 days.

Weather Systems and Forecast & Warnings:

- ❖ A trough at mean sea level runs off Maharashtra-Kerala coasts. A cyclonic circulation lies over central Gujarat in lower & middle tropospheric levels and a trough runs from this cyclonic circulation to northwest Bihar in lower tropospheric levels. Under their influence:
 - Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** very likely over Konkan & Goa, Madhya Maharashtra, Marathwada, Karnataka, Kerala & Mahe, Lakshadweep, Gujarat state, Madhya Pradesh, Vidarbha, Chhattisgarh; scattered to fairly widespread light to moderate rainfall over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Tamil Nadu, Puducherry & Karaikal during next 5 days.
 - Isolated **heavy rainfall** very likely over Saurashtra & Kutch, Tamil Nadu during 26th-27th; Gujarat Region, Coastal Karnataka during 26th-29th; North Interior Karnataka on 27th; Telangana on 27th & 28th and over Coastal Andhra Pradesh during 26th-28th June, 2024.
 - Isolated **heavy rainfall** very likely over West Madhya Pradesh, Vidarbha on 27th & 28th; East Madhya Pradesh and Chhattisgarh during 26th-29th June.
 - **Isolated very heavy rainfall very likely over Konkan & Goa during next 5 days; Coastal Karnataka, South Interior Karnataka, Kerala & Mahe during 26th-27th; Tamil Nadu on 26th June.**
- ❖ Strong southerly/southwesterly winds prevail in the lower tropospheric levels from the Bay of Bengal into east & northeast India. Under its influence;
 - Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during next 5 days.
 - **Isolated heavy to very heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh during 26th-29th and isolated heavy rainfall over Nagaland, Manipur, Mizoram & Tripura during 26th-29th June.**
- ❖ A cyclonic circulation lies over southwest Madhya Pradesh and a trough runs from this cyclonic circulation to northeast Assam in the lower tropospheric levels. Under the influence of these systems;
 - Scattered to fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Gangetic West Bengal, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Odisha during next 5 days.
 - Isolated **heavy to very heavy rainfall** very likely over Andaman & Nicobar Islands, Bihar on 26th and isolated **heavy rainfall** over Bihar during 27th-29th; Jharkhand on 26th, 28th & 29th; Odisha during 26th-29th June.
 - Fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** with isolated **heavy rainfall** very likely over Uttarakhand, East Rajasthan, East Uttar Pradesh during 26th-29th; West Uttar Pradesh during 27th-29th, Haryana on 28th & 29th and Punjab on 29th June.
 - **Isolated very heavy rainfall very likely over Uttarakhand on 28th & 29th June, 2024.**
- ❖ Yesterday, **Maximum temperatures** were in the range of 40-43°C over some parts of Punjab and West Rajasthan and in isolated pockets of Haryana, south Uttar Pradesh, southwest Bihar and northwest Jharkhand. These were above normal by 3-6°C over these regions.

Heat Wave warning for next 5 days:

- ❖ **Heat wave conditions** very likely in isolated pockets of Jammu division during 26th-27th; Punjab & West Rajasthan on 26th June and abate thereafter.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places over** Kerala & Mahe and Andaman & Nicobar Islands; **at many places over** Sub-Himalayan West Bengal & Sikkim and Lakshadweep; **at a few places over** Coastal Karnataka, Assam & Meghalaya, Arunachal Pradesh and **at isolated places over** Tamil Nadu, Puducherry & Karaikal, Interior Karnataka, Konkan & Goa, Madhya Maharashtra, Rayalaseema, Coastal Andhra Pradesh & Yanam, Odisha, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Uttar Pradesh, Gujarat state, Uttarakhand and Bihar .
- ❖ **Heavy to very heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **NIL**.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Kerala & Mahe:** Kottayam-6, Kochi and Thrissur-4 each, Alleppey-3; Panallur, Kozhikode and Kannur-2 each; **Tamil Nadu, Puducherry & Karaikal:** Valparai-5; **Konkan & Goa:** Ratnagiri-5; **East Uttar Pradesh:** Sultanpur-4, Hardoi-2; **Assam & Meghalaya:** Barapani-4, Shillong and Golaghat-2 each; **Arunachal Pradesh:** Pasighat-2; **Lakshadweep:** Agathi-2; **Madhya Maharashtra:** Mahabaleshwar-2.
- ❖ **Reported maximum wind speed (in kmph)** (from 0830 hours IST to 1730 hours IST of yesterday): **Ladakh:** Chuchot-65, Nyoma-61, Padum & Khaltse-59 each; **Gujarat:** Radhanpur-59; **Kerala & Mahe:** Padinjarathara-57, Munakkal-56; **Rajasthan:** Sirohi-56, Jaipur, Alwar & Ajmer-48 each; **Himachal Pradesh:** Reckon-52; **Tamil Nadu, Puducherry & Karaikal:** Kanyakumari-52; **Andhra Pradesh:** Yellamanchilli-52; **Madhya Pradesh:** Sehore and Ahmadpur-50 each; **Karnataka:** Gangavathi-50 and Davanagere- 48.
- ❖ Yesterday, **Heat wave conditions** observed in isolated pockets of Punjab.
- ❖ **Minimum Temperature Departures (as on 25-06-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Bihar; at isolated places over Punjab, Uttar Pradesh, West Rajasthan, East Madhya Pradesh and Odisha; **above normal (1.6°C to 3.0°C)** at a few places over Gangetic West Bengal, Jharkhand, Chhattisgarh and Vidarbha; at isolated places over Himachal Pradesh, Haryana-Chandigarh, Uttarakhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Telangana and Coastal Andhra Pradesh & Yanam. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Gujarat state and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 19.8°C** was reported at **Bulsar (Gujarat Region)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 25-06-2024):** Maximum temperatures were **markedly above normal (5.1°C & above)** at a few places over Punjab; at isolated places over Jharkhand; **appreciably above normal (3.1°C to 5.0°C)** at many places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha and Gangetic West Bengal; at a few places over Odisha and West Uttar Pradesh and at isolated places over Chhattisgarh, Haryana-Chandigarh-Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim and West Rajasthan; **above normal (1.6°C to 3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Telangana, Konkan & Goa, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Uttarakhand. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Andaman & Nicobar Islands; **below normal (-1.6°C to -3.0°C)** at a few places over Tamil Nadu, Puducherry & Karaikal and at isolated places over Kerala & Mahe and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature of 45.4°C** was reported at **Jaisalmer (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon continues to pass through 23°N/60°E, 23°N/65°E, Mundra, Mehsana, Udaipur, Shivpuri, Lalitpur, Siddhi, Chaibasa, Haldia, Pakur, Sahibganj and Raxaul.
- ❖ Conditions are likely to become favourable for further advance of Southwest Monsoon into remaining parts of North Arabian Sea, Gujarat State, Madhya Pradesh; some more parts of Rajasthan; remaining parts of Chhattisgarh, West Bengal, Jharkhand and Bihar; most parts of East Uttar Pradesh; some more parts of West Uttar Pradesh; some parts of Uttarakhand, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, northern parts of Punjab and northern parts of Haryana during next 3-4 days.
- ❖ The cyclonic circulation over central Gujarat & neighbourhood extending upto 5.8 above mean sea level tilting southwards with height persists.
- ❖ The trough from above cyclonic circulation to northwest Bihar across Madhya Pradesh & southeast Uttar Pradesh at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over southwest Madhya Pradesh & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The east-west trough from above cyclonic circulation over southwest Madhya Pradesh to northeast Assam across East Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Bangladesh at 0.9 km above mean sea level persists.
- ❖ The Western Disturbance as a cyclonic circulation over Himachal Pradesh & neighbourhood at 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over northwest Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over southwest Rajasthan & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The trough at mean sea level off Maharashtra- Kerala coasts persists.
- ❖ The cyclonic circulation over Eastcentral Bay of Bengal & neighbourhood between 3.1 & 5.8 km above mean sea level persists.

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

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Thunderstorm accompanied with lightning, very likely at isolated places over Northeast & south peninsular India during next 5 days.
- ❖ No significant change in maximum temperatures very likely over Northwest & Central India during next 24 hours and fall by 2-4°C thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

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

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

Table-1

7 Days Rainfall Forecast

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

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

* 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.
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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

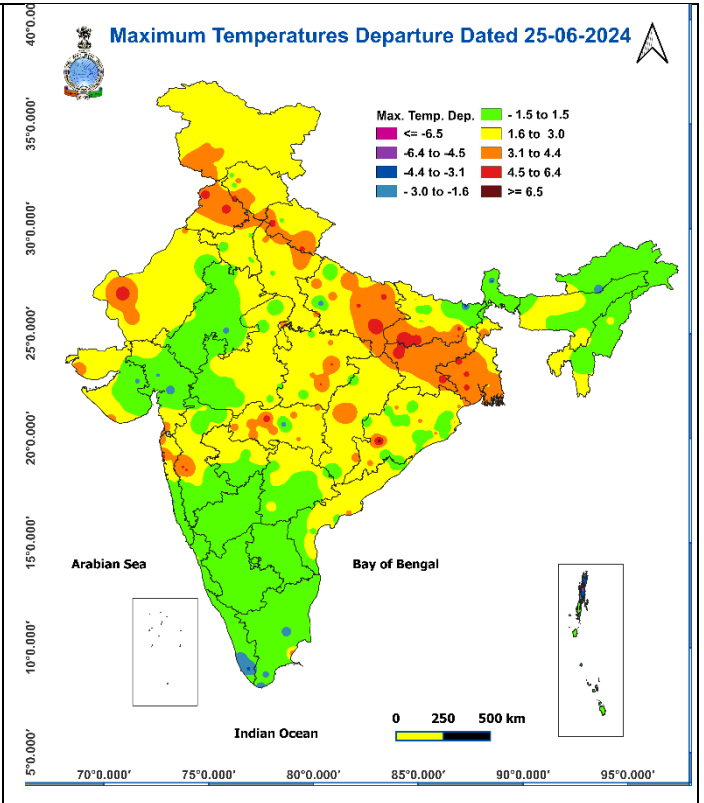
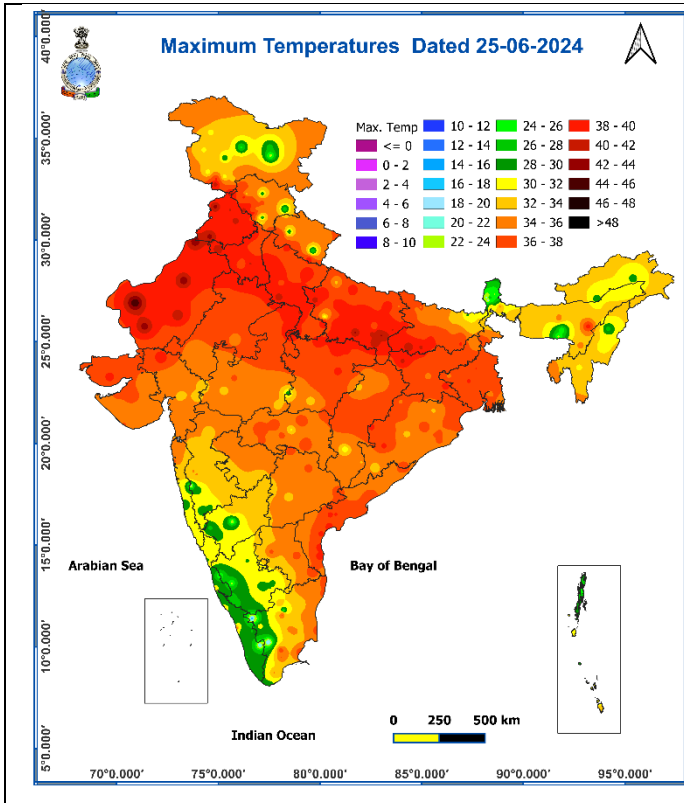


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

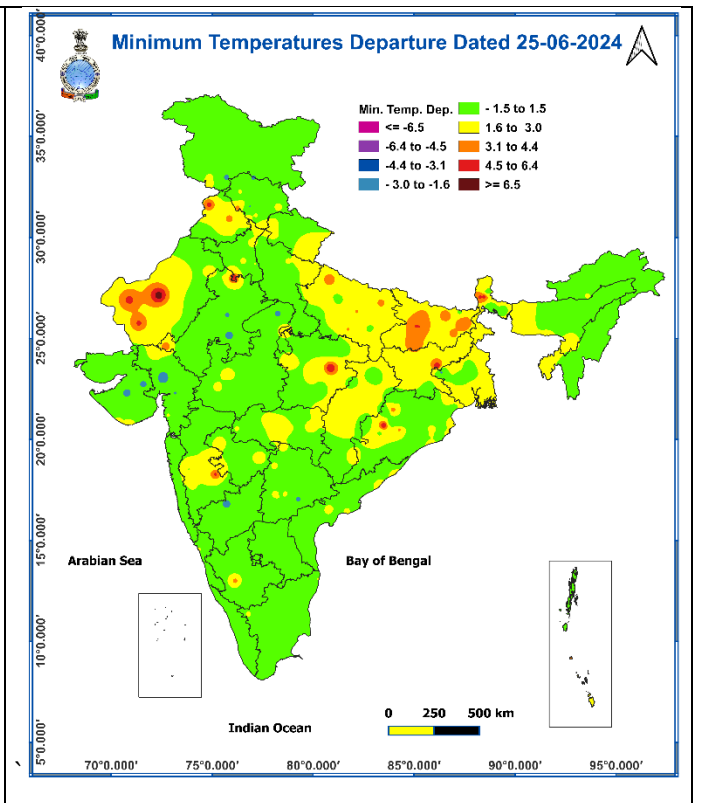
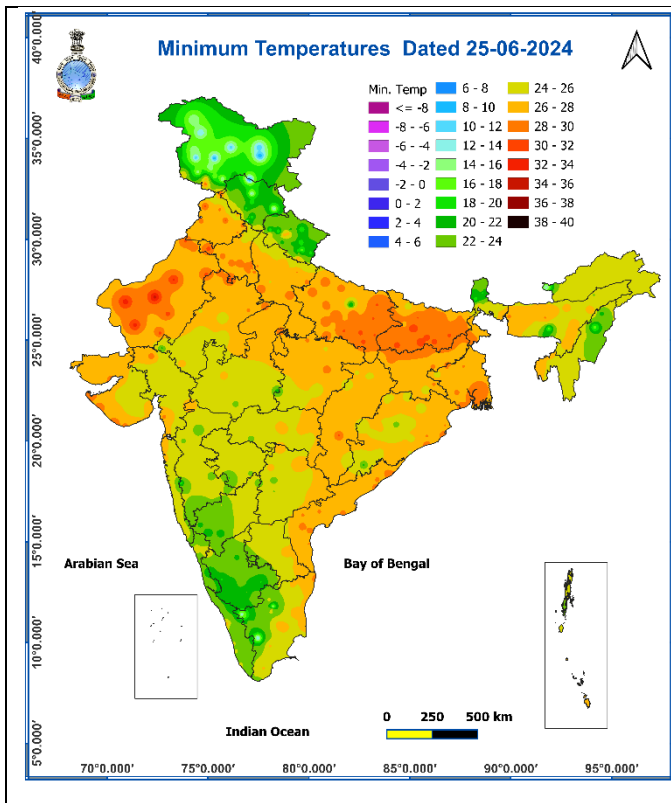
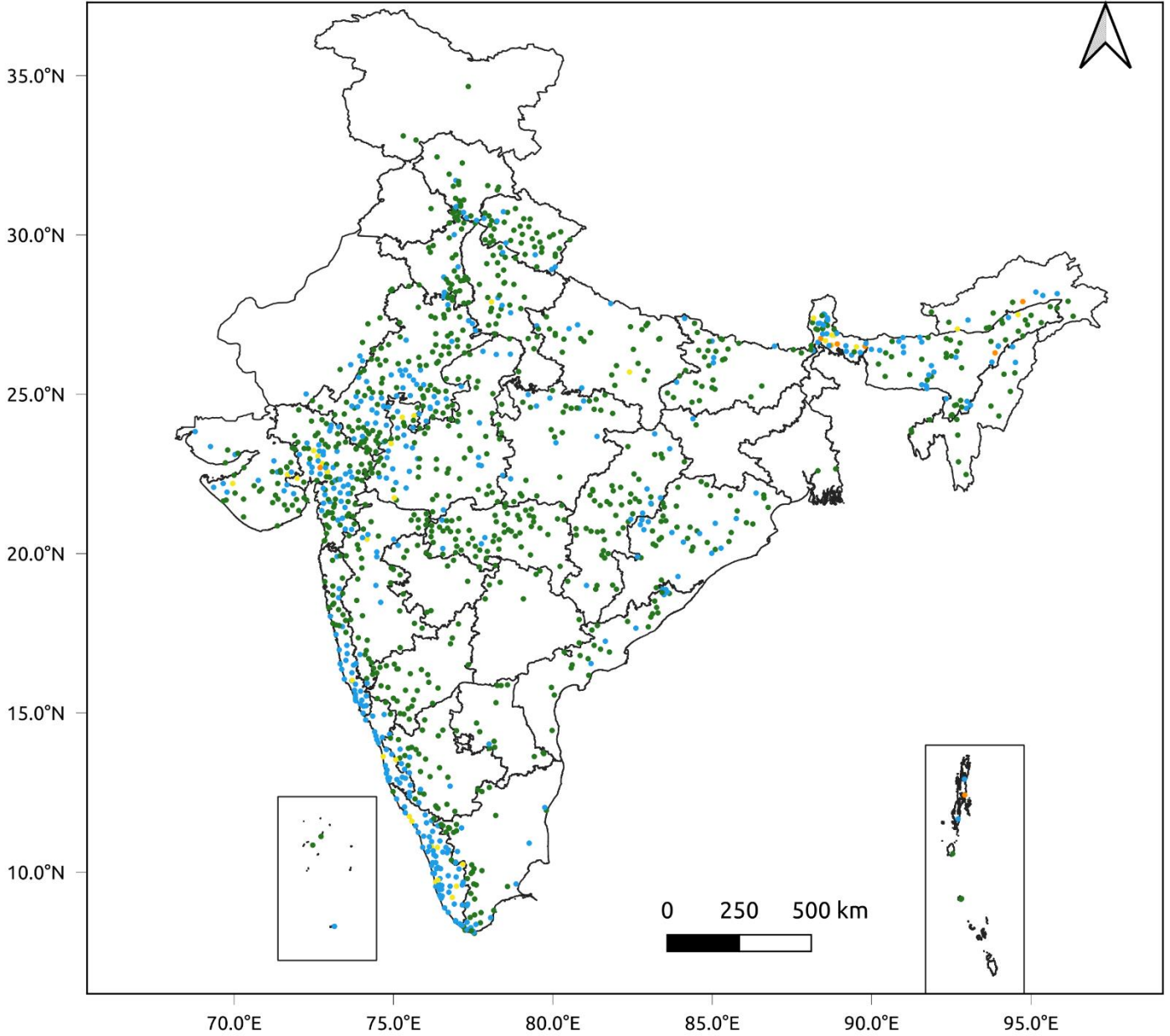


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



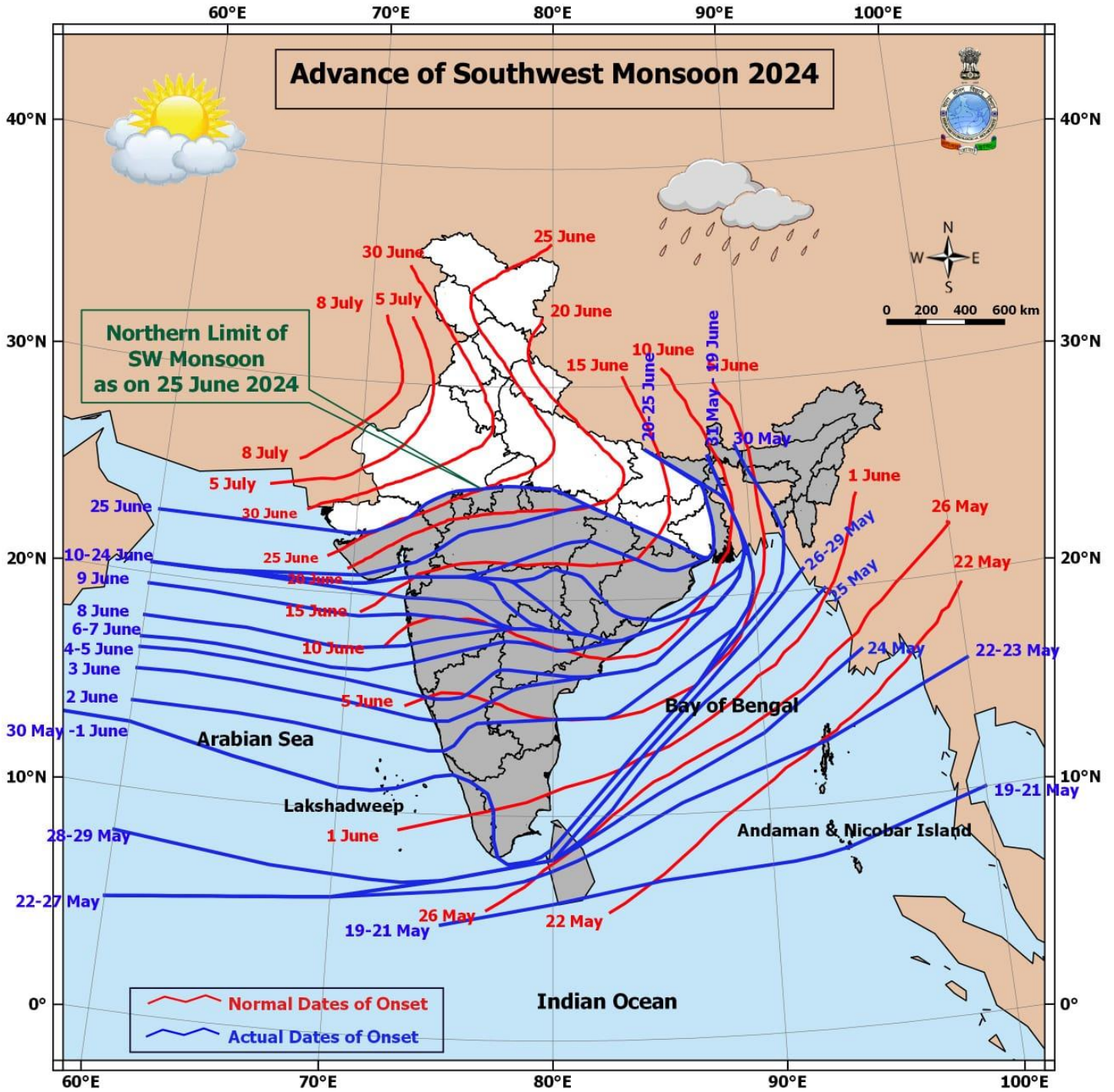
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 24-6-2024 to 0830 IST of 25-6-2024



Legends

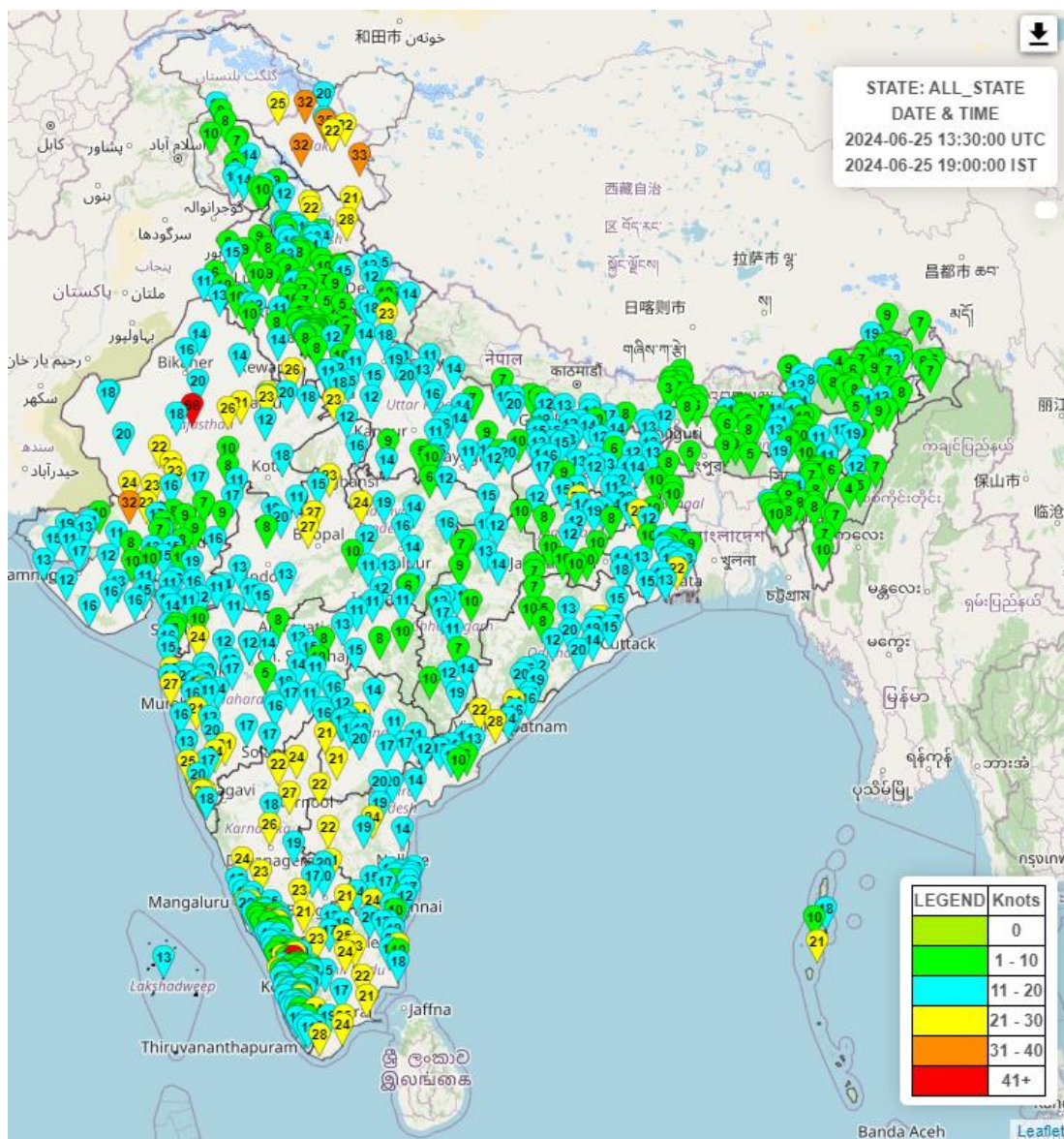
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



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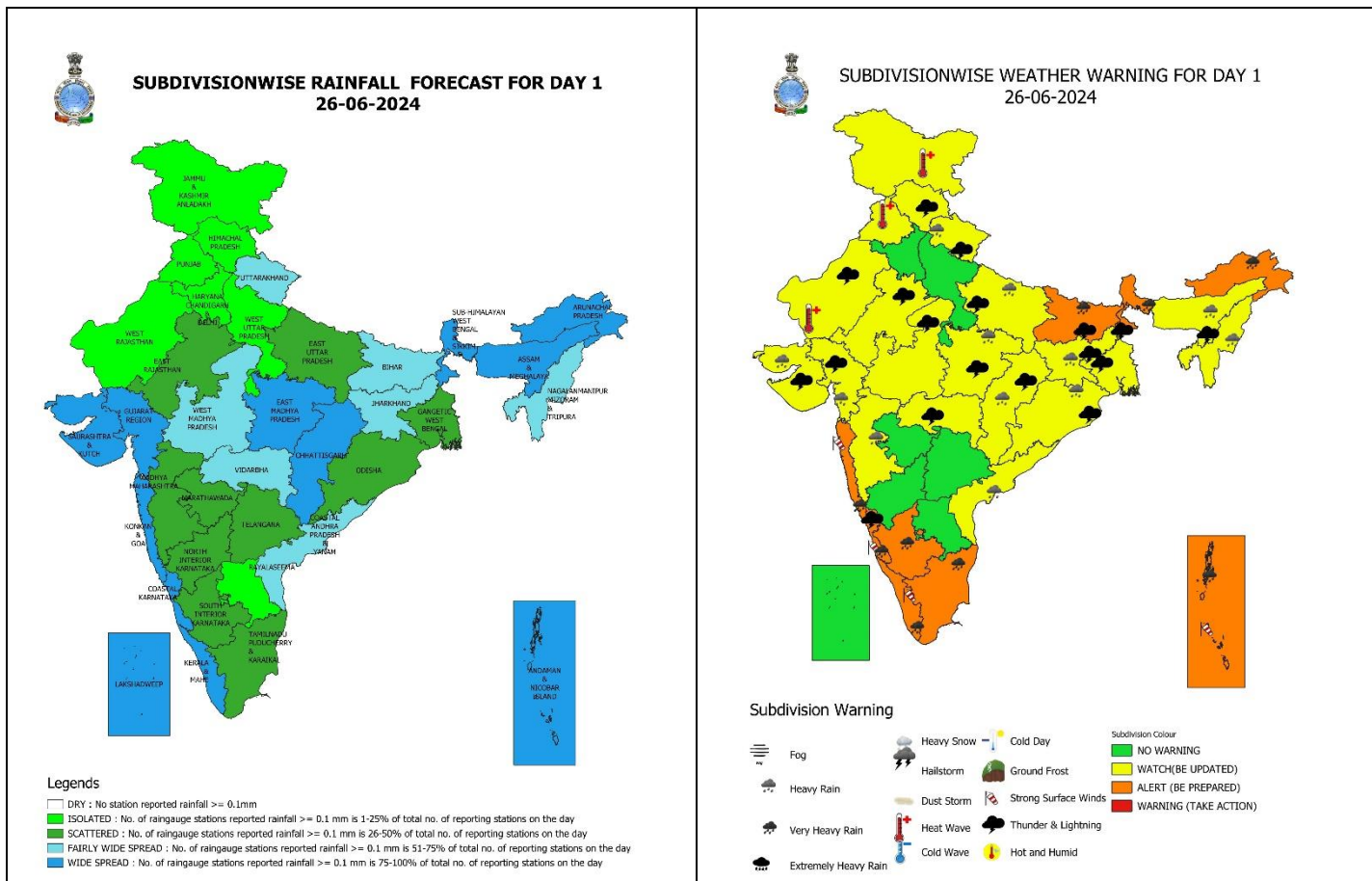
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST to 1900 hours IST of 25.06.2024



1 Knot = 1.852 kmph

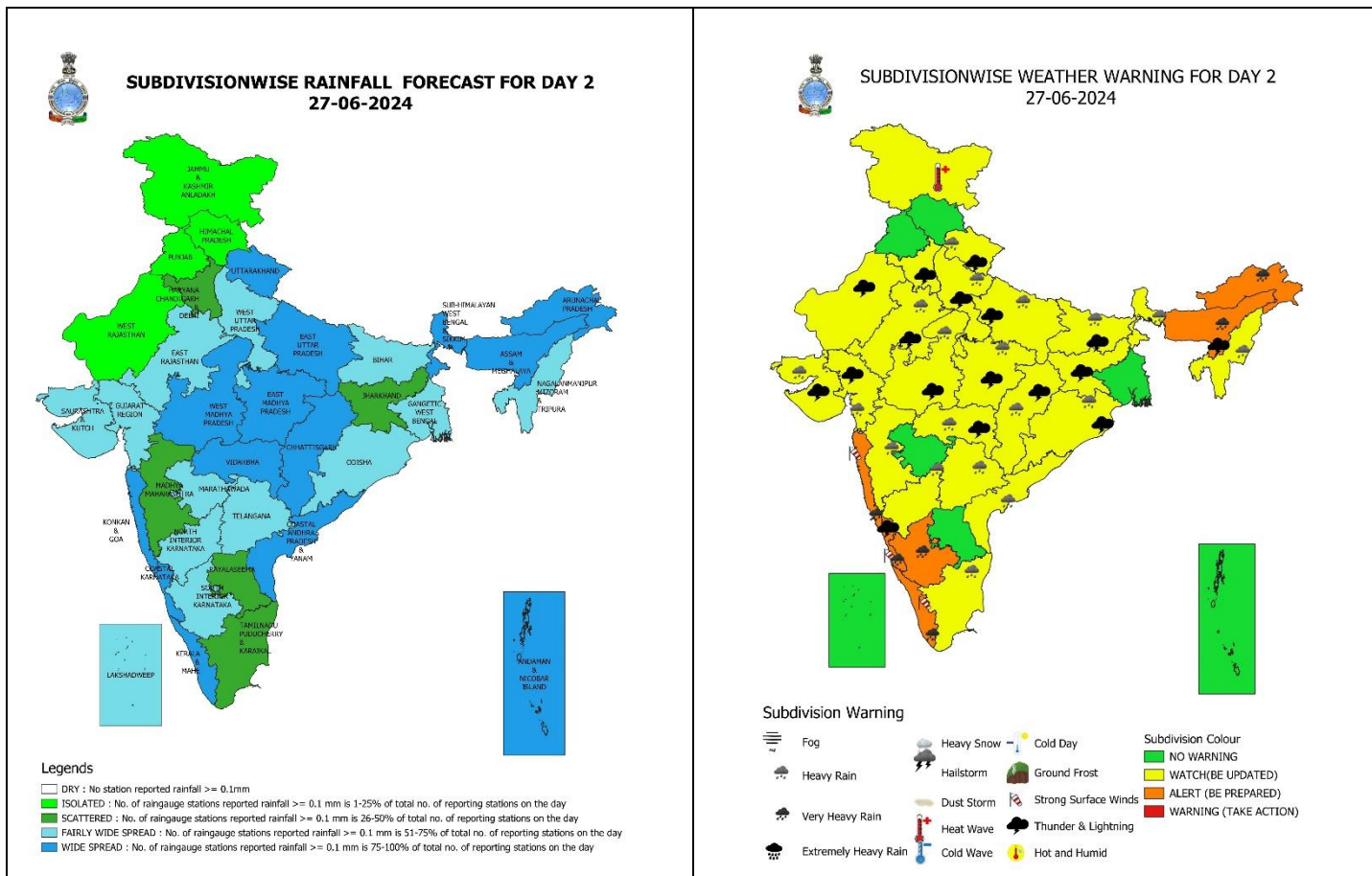
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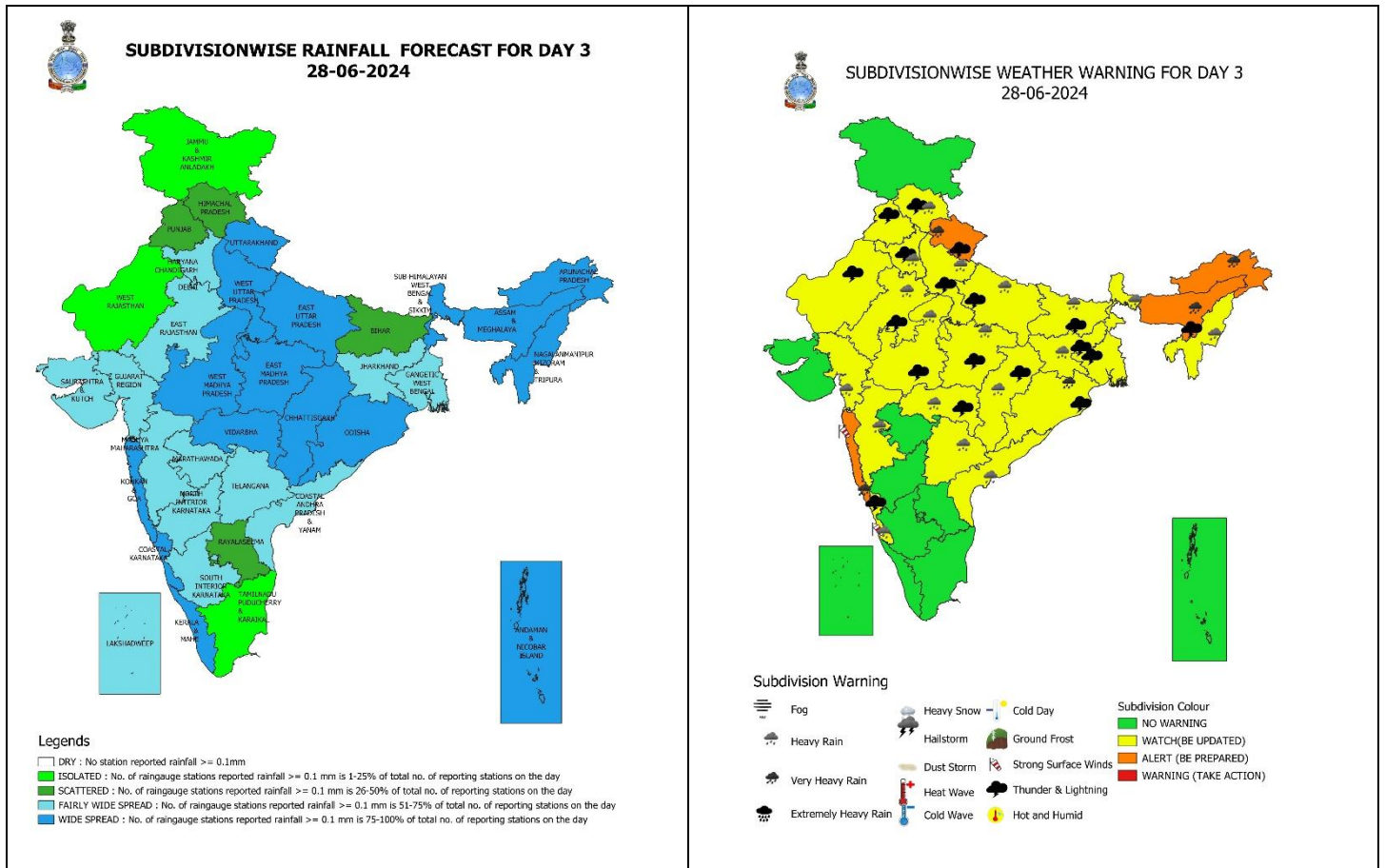
26 June (Day 1):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka and South Interior Karnataka; **heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Madhya Maharashtra, Gujarat state and Coastal Andhra Pradesh & Yanam.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over East Uttar Pradesh, Bihar and Jharkhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, West Bengal & Sikkim; **with lightning** at isolated places over Gujarat state.
- ❖ **Heat wave conditions** very likely in isolated pockets over Jammu division, Punjab and West Rajasthan.
- ❖ **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, Eastcentral Arabian sea and adjoining areas, Lakshadweep area, adjoining Maldives area, along and off south Gujarat, Maharashtra, Konkan, Goa, Karnataka, Kerala coasts, over Gulf of Mannar, off Sri Lanka coast, South and Central Bay of Bengal, north Andaman Sea. **squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over along and off Somalia coast, south and central Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



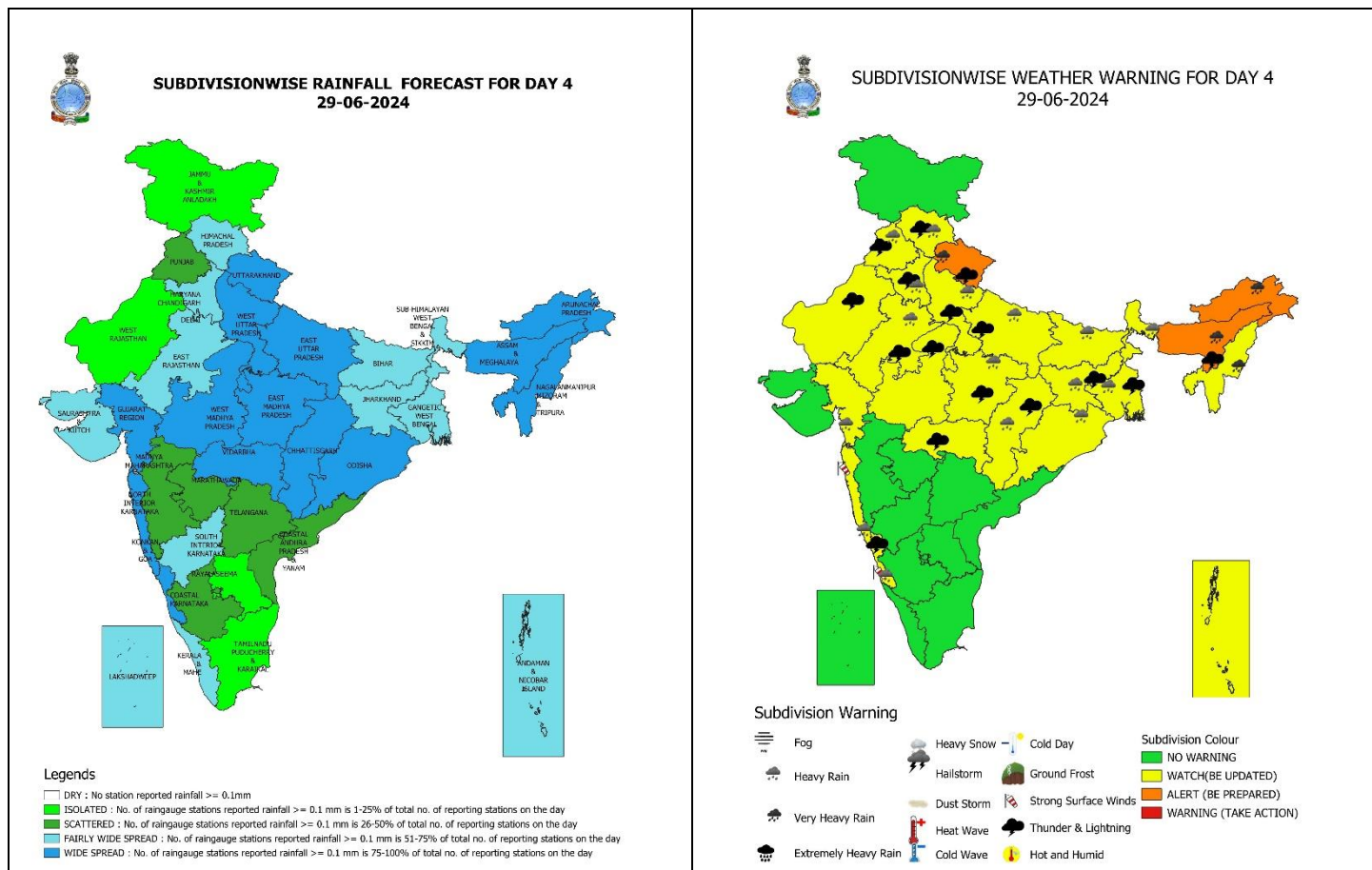
27 June (Day 2):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka; **heavy rainfall** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Haryana-Chandigarh-Delhi, Uttar Pradesh, Bihar, Jharkhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Rajasthan; **with lightning** at isolated places over Gujarat state.
- ❖ **Heat wave conditions** very likely in isolated pockets over Jammu division.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over Lakshadweep area, adjoining Southeast Arabian Sea, along and off Maharashtra, Konkan, Goa, Karnataka, Kerala coasts, over Gulf of Mannar, off Sri Lanka coast, off north Andhra Pradesh and south Odisha coasts, South and Central Bay of Bengal. **squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over along and off Somalia coast, South and Central Arabian Sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



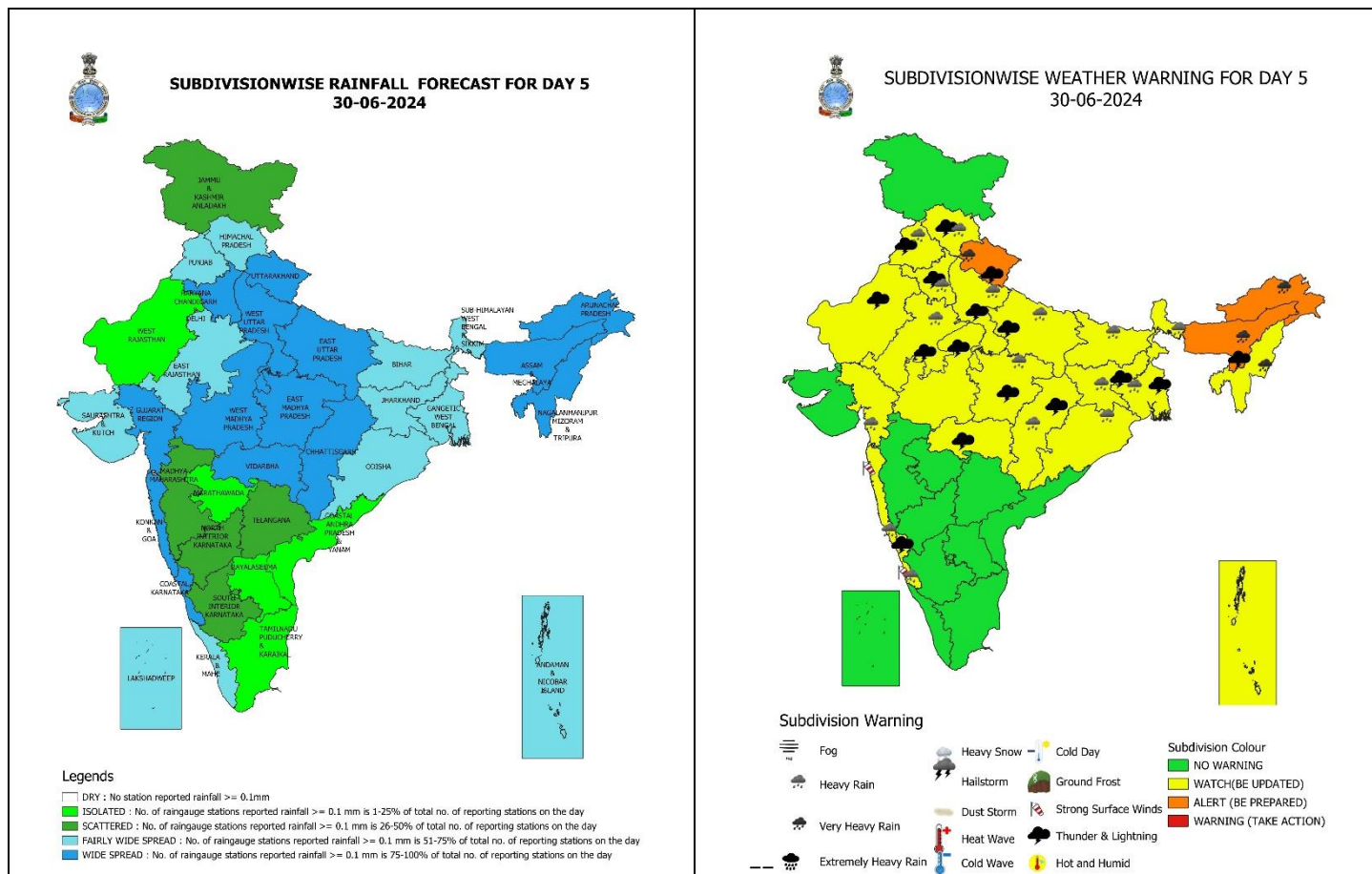
28 June (Day 3):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa; **heavy rainfall** at isolated places over Himachal Pradesh, Haryana, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Gujarat Region, Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Telangana.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar and Jharkhand.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northern parts of southeast Arabian sea, along and off south Maharashtra, Konkan, Goa, Karnataka coasts, off Sri Lanka coast, over Gulf of Mannar, south and central Bay of Bengal & adjoining north Bay of Bengal. **squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over along and off Somalia coast, South and Central Arabian Sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



29 June (Day 4):

- ❖ **Heavy to very heavy rainfall** at isolated places over Uttarakhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Konkan & Goa, Gujarat Region and Coastal Karnataka.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Jharkhand.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northern parts of Southeast Arabian Sea, off Maharashtra, Konkan, Goa, Karnataka coasts, over Gulf of Mannar, off Sri Lanka coast, South and Central Bay of Bengal, southern parts of North Bay of Bengal. **squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over along and off Somalia coast, South and Central Arabian Sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.

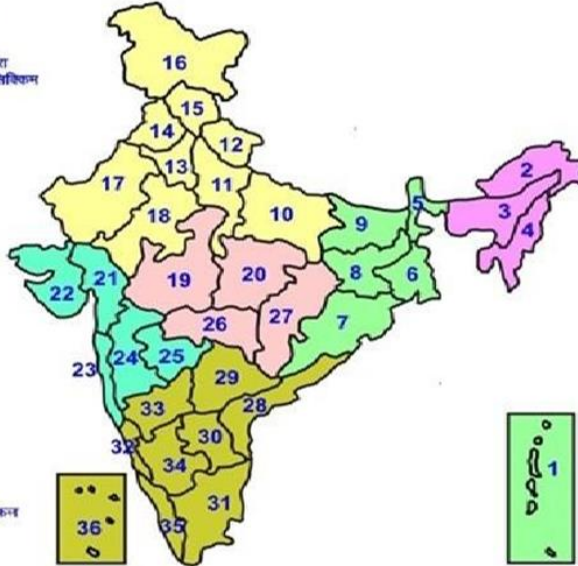


30 June (Day 5):

- ❖ **Heavy to very heavy rainfall** at isolated places over Uttarakhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Konkan & Goa, Gujarat Region and Coastal Karnataka.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Jharkhand.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northern parts of Southeast Arabian Sea, off Maharashtra, Konkan, goa, Karnataka coasts, over Gulf of Mannar, off Sri Lanka coast, South and Central Bay of Bengal, southern parts of North Bay of Bengal. **squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over along and off Somalia coast, South and Central Arabian Sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मिजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सोराष्ट्र एवं कच्छ
- 23 कोकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 महाराष्ट्र
- 26 विदर्भ
- 27 उत्तरीसमूह, पुदुचेरी एवं कराईकल
- 28 तटीय आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 रायलसेमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 उत्तरी कर्नाटक
- 33 अंतर्देशीय उत्तरी कर्नाटक
- 34 अंतर्देशीय दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnada, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

LEGENDS

WARNING

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

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