

Saturday, June 22, 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 20.5°N/60°E, 20.5°N/63°E, 20.5°N/70°E, Navsari, Jalgaon, Mandla, Pendra Road, Jharsuguda, Balasore, Haldia, Pakur, Sahibganj and Raxaul.
- Conditions are favourable for further advance of Southwest Monsoon into some more parts of North Arabian Sea, Gujarat State, remaining parts of Maharashtra, some more parts of Madhya Pradesh, Chhattisgarh, Odisha, Gangetic West Bengal, Jharkhand, Bihar and some parts of East Uttar Pradesh during next 3-4 days.

Weather Systems and Forecast & Warnings:

- ❖ A cyclonic circulation lies over northeast Assam & neighbourhood. Under its influence:
 - 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 during next 5 days.
 - Isolated **heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh next 5 days with possibility of very heavy rainfall over Sub-Himalayan West Bengal & Sikkim during 24th-26th and isolated heavy rainfall over Nagaland, Manipur, Mizoram & Tripura on 22nd June.
- ❖ A cyclonic circulation lies over Bihar & adjoining East Uttar Pradesh in lower tropospheric levels and an east-west trough runs from northeast Rajasthan to Manipur in lower tropospheric levels. Under their influence:
 - Fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Gangetic West Bengal, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands during next 5 days.
 - Isolated **heavy rainfall** very likely over Bihar, Andaman & Nicobar Islands during 22nd-26th, Odisha on 22nd; Jharkhand during 24th-26th June. Isolated **very heavy rainfall** likely over Bihar during 24th-26th June.
- ❖ A trough at mean sea level runs off Karnataka and Kerala coasts and lower level winds are likely to strengthen at the west coast next 3 days. Under its influence:
 - Scattered to fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning** likely over Gujarat state, Konkan & Goa, Madhya Maharashtra & Marathwada during next 5 days.
 - Isolated **heavy to very heavy rainfall** very likely over Konkan & Goa and ghat areas of Madhya Maharashtra during 22nd-26th and isolated **heavy rainfall** over Gujarat region and Marathwada on 23rd June and southeast Rajasthan during 24th-26th June 2024.
 - Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** likely over Karnataka, Kerala & Mahe, Lakshadweep; isolated to scattered light to moderate rainfall over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Tamil Nadu, Puducherry & Karaikal during next 5 days.
 - Isolated **heavy to very heavy rainfall** very likely over Kerala & Mahe Karnataka, Tamil Nadu during 22nd-26th; Lakshadweep on 22nd & 23rd and Telangana on 22nd June.
 - Isolated **extremely heavy rainfall** also likely over Coastal Karnataka on 22nd & 23rd; Konkan & Goa on 23rd & 24th; Kerala & Mahe & South Interior Karnataka on 23rd June, 2024.
- ❖ A cyclonic circulation lies over Vidarbha & neighbourhood in lower tropospheric levels. Under its influence; fairly widespread to widespread rainfall with **thunderstorm, lightning & gusty winds (40-50 kmph)** very likely over Madhya Pradesh, Vidarbha, Chhattisgarh during next 5 days. Isolated **heavy rainfall** very likely over Vidarbha on 22nd & 23rd; Chhattisgarh and Madhya Pradesh on 22nd June.
- ❖ A Western Disturbance seen as a trough in middle tropospheric westerlies roughly along Long. 69°E to the north of Lat. 28°N and an induced cyclonic circulation lies over northwest Uttar Pradesh in lower tropospheric levels. Under its influence; Isolated to scattered light to moderate rainfall with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Uttar Pradesh & Rajasthan during next 5 days.
- ❖ Under the influence of lower level easterlies from Bay of Bengal; Scattered to fairly widespread rainfall over Uttarakhand and East Uttar Pradesh during next 7 days. Isolated **heavy rainfall** very likely over Uttarakhand during 23rd-26th and East Uttar Pradesh during 24th-26th June.
- ❖ Yesterday, **Maximum temperatures** were in the range of 40-42°C in some parts of West Rajasthan, Uttar Pradesh; in isolated pockets of Haryana-Delhi and Gujarat state and **Maximum temperatures** departures were below normal by 2-4°C over some parts of Northwest India.

Heat Wave warning for next 5 days:

- ❖ **Heat wave conditions** very likely in isolated/some pockets of West Uttar Pradesh during 22nd-24th; Jammu division during 23rd-26th June and **abate thereafter**.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Andaman & Nicobar Islands and Kerala & Mahe; **at many places** over Konkan & Goa and Lakshadweep; **at a few places** over Odisha, Madhya Pradesh, East Rajasthan, Coastal Karnataka, North Interior Karnataka and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at isolated places** over Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Gangetic West Bengal, Jharkhand, Vidarbha, Marathwada, Madhya Maharashtra, Telangana and Tamil Nadu, Puducherry & Karaikal.
- ❖ **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): **Odisha:** Rourkela-6, Keonjhar-4 and Paradip port-2; **East Rajasthan:** Kota and Ajmer -4 each; **Nagaland, Manipur, Mizoram & Tripura:** Agartala-3; **Assam & Meghalaya:** Barapani/Shillong-2; **Telangana:** Khammam-2; **Tamil Nadu, Puducherry & Karaikal:** Yercaud-2; **Madhya Pradesh:** Indore, Betul and Malanjhand-2 each.
- ❖ Yesterday, **Heatwave conditions** prevailed in isolated pockets of southwest Uttar Pradesh.
- ❖ **Reported maximum wind speed (in knots)** (from 0830 hours IST to 1730 hours IST of yesterday): **Gujrat:** Arnej-50, Anand-35 and Taleja-27; **Maharashtra:** Ambejogai-31, Nimgiri-29, Kalwan and Sakoli-27 each; **Karnataka:** Gangavathi-30 and Kawadimatti-28; **Delhi:** Ujwa-30 and Pitampura-26; **Uttar Pradesh:** Bagpat-29; **Jharkhand:** Simgeda-29, Chatra-28; **Haryana:** Ujha-27; **Madhya Pradesh:** Deora and Pala-27 each, Pipraundh-26; **Chhattisgarh:** Koriya-26; **Tamil Nadu:** Panipet and Karur-26.
- ❖ **Minimum Temperature Departures (as on 21-06-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over West Uttar Pradesh and Saurashtra & Kutch; **above normal (1.6°C to 3.0°C)** at many places over Gujarat Region and Coastal Andhra Pradesh & Yanam; at a few places over East Uttar Pradesh; at isolated places over Himachal Pradesh, Madhya Pradesh, Chhattisgarh, Odisha, Gangetic West Bengal, Vidarbha, Madhya Maharashtra, Marathwada, Kerala & Mahe and Andaman & Nicobar Islands. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Haryana-Chandigarh-Delhi and Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at isolated places over Assam & Meghalaya and Rajasthan and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 21.6°C was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 21-06-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over West Uttar Pradesh, Gujarat state; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over East Uttar Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Bihar and Jharkhand; **above normal (1.6°C to 3.0°C)** at a few places over Konkan & Goa; at isolated places over Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Gangetic West Bengal, Telangana, Vidarbha, Marathwada and Madhya Maharashtra. These were **markedly below normal (-5.1°C or Less)** at a few places over Himachal Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, West Rajasthan and West Madhya Pradesh; **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 many places over Punjab; at isolated places over East Rajasthan, Odisha, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature** of 44.6°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 20.5°N/60°E, 20.5°N/63°E, 20.5°N/70°E, Navsari, Jalgaon, Mandla, Pendra Road, Jharsuguda, Balasore, Haldia, Pakur, Sahibganj and Raxaul.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of North Arabian Sea, Gujarat State, remaining parts of Maharashtra, some more parts of Madhya Pradesh, Chhattisgarh, Odisha, Gangetic West Bengal, Jharkhand, Bihar and some parts of East Uttar Pradesh during next 3-4 days.
- ❖ The Western Disturbance now seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 69°E to the north of Lat. 28°N.
- ❖ The induced cyclonic circulation over northwest Uttar Pradesh & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over southwest Rajasthan & adjoining Pakistan at 1.5 km above mean sea level persists.
- ❖ The east-west trough from northeast Rajasthan to Manipur across northwest Madhya Pradesh, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal, Bangladesh, Meghalaya & Assam at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Bihar & adjoining East Uttar Pradesh at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast & adjoining Eastcentral Bay of Bengal between 3.1 & 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over interior Odisha between 3.1 & 7.6 km above mean sea level persists.
- ❖ The cyclonic circulation over Vidarbha & neighbourhood between 3.1 & 4.5 km above mean sea level persists.
- ❖ The trough at mean sea level off Karnataka-Kerala coasts persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 29th June, 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 India during next 2 days.
- ❖ Rise by about 3-4°C in maximum temperatures very likely over Northwest India during next 2 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 29th June-01st July, 2024)

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

Table-1

7 Days Rainfall Forecast

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

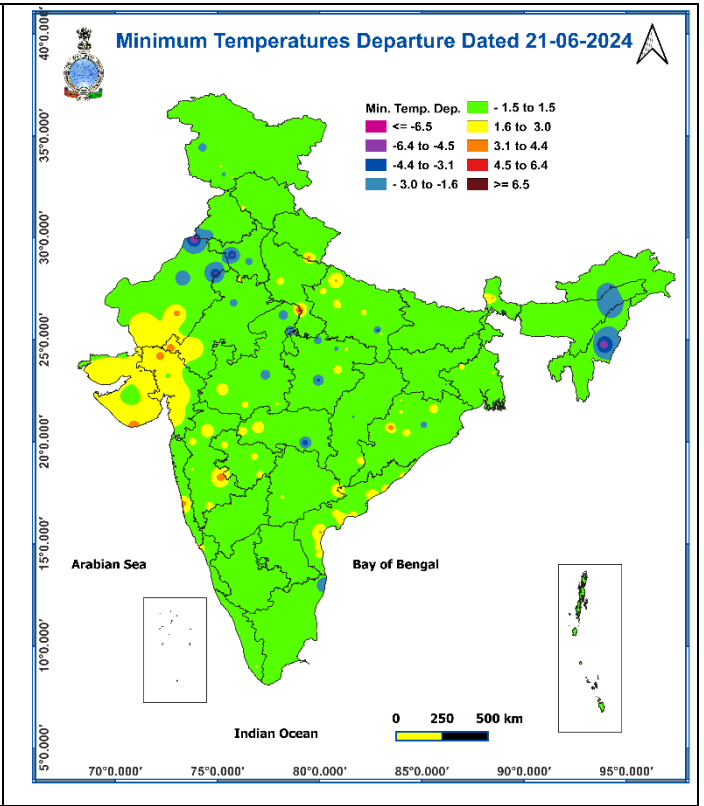
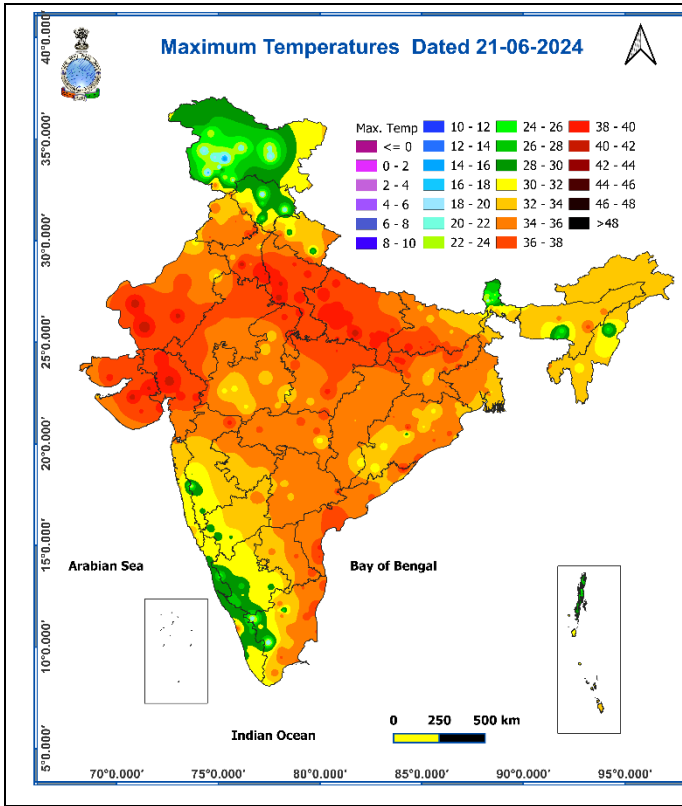
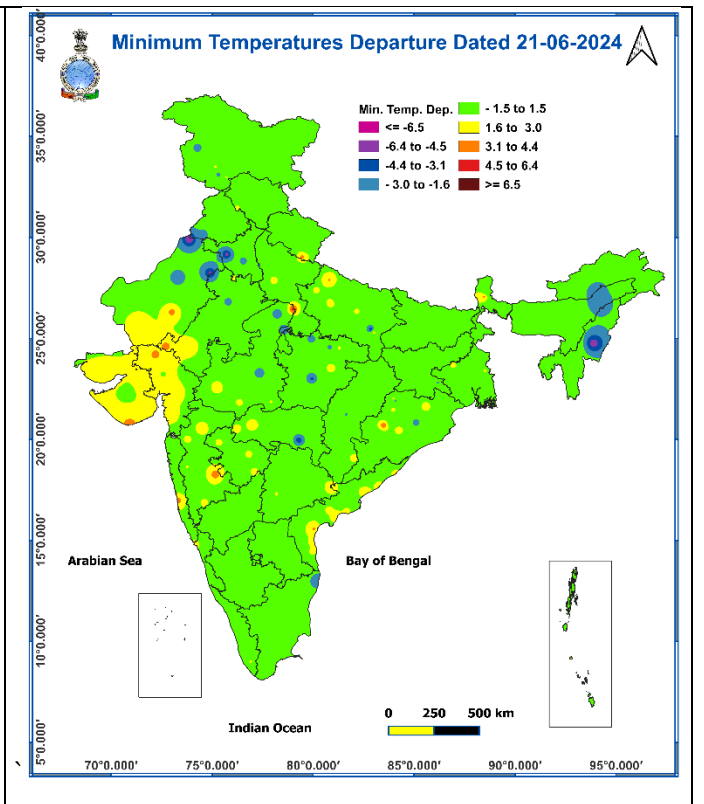
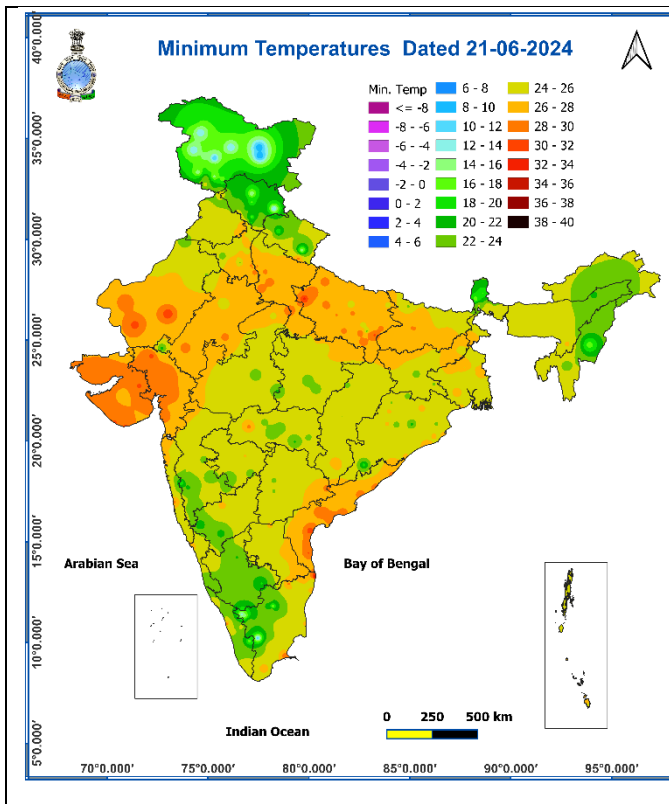


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

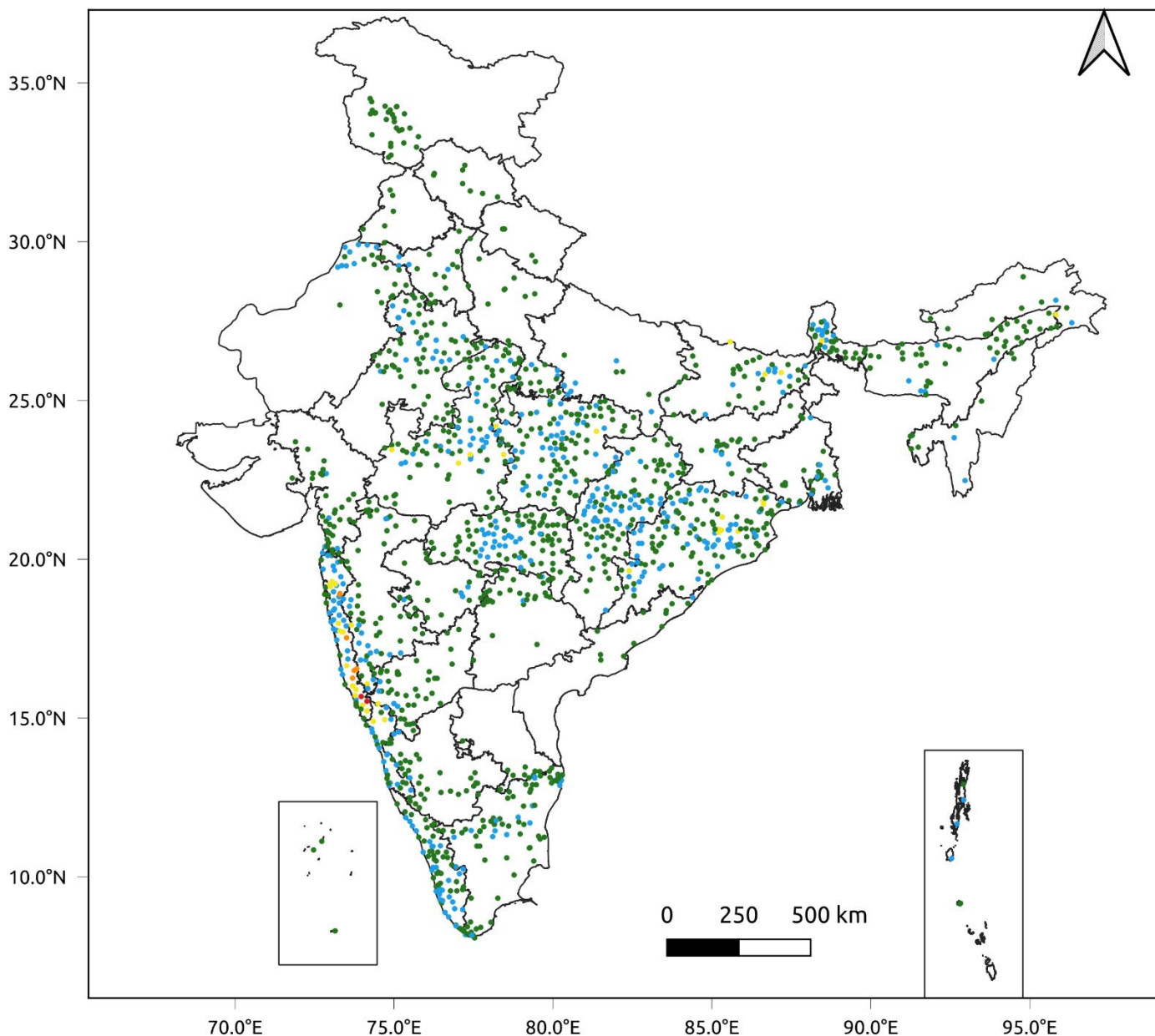


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Fig. 5: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 20-6-2024 to 0830 IST of 21-6-2024

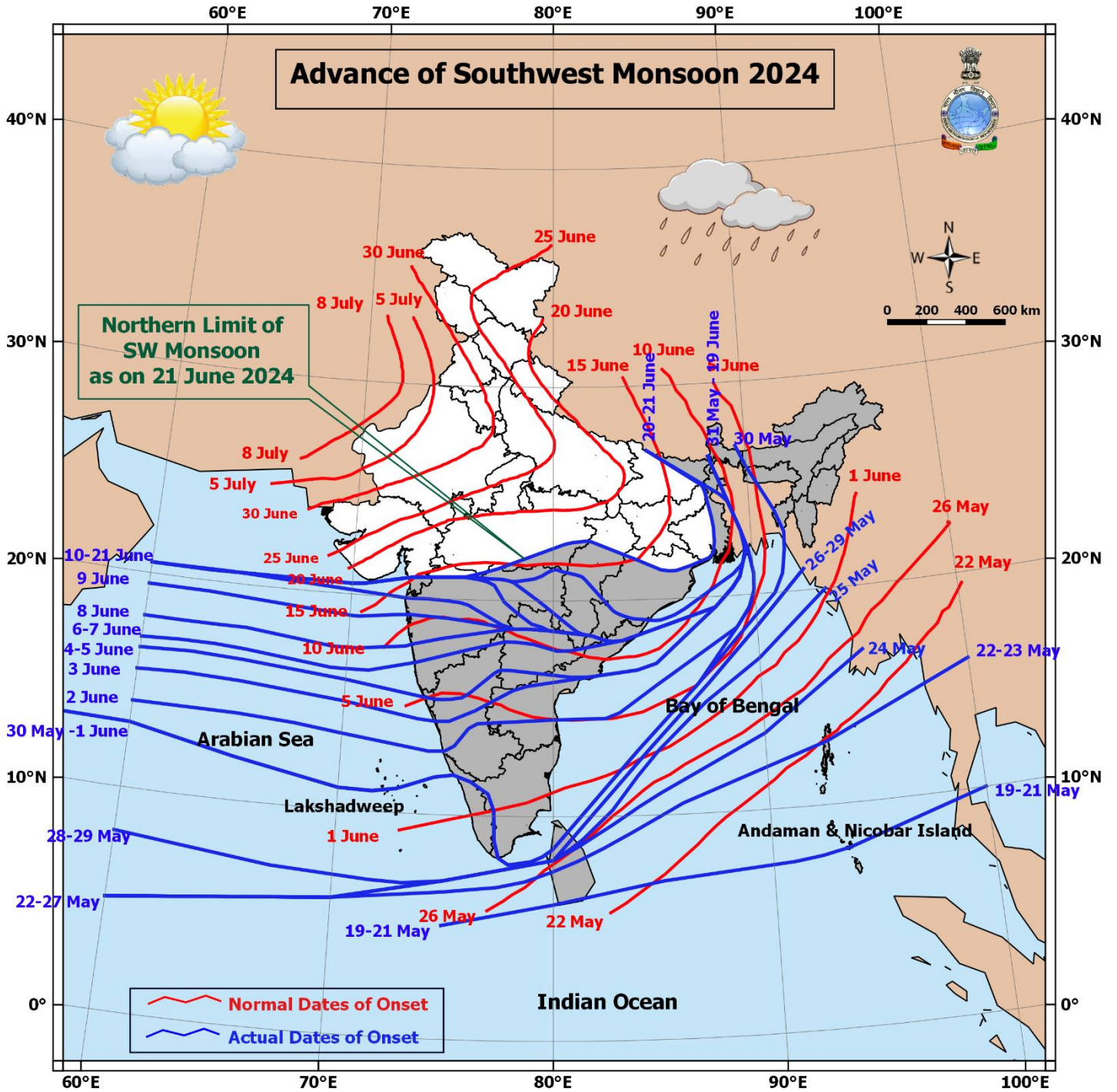


Legends

- 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)

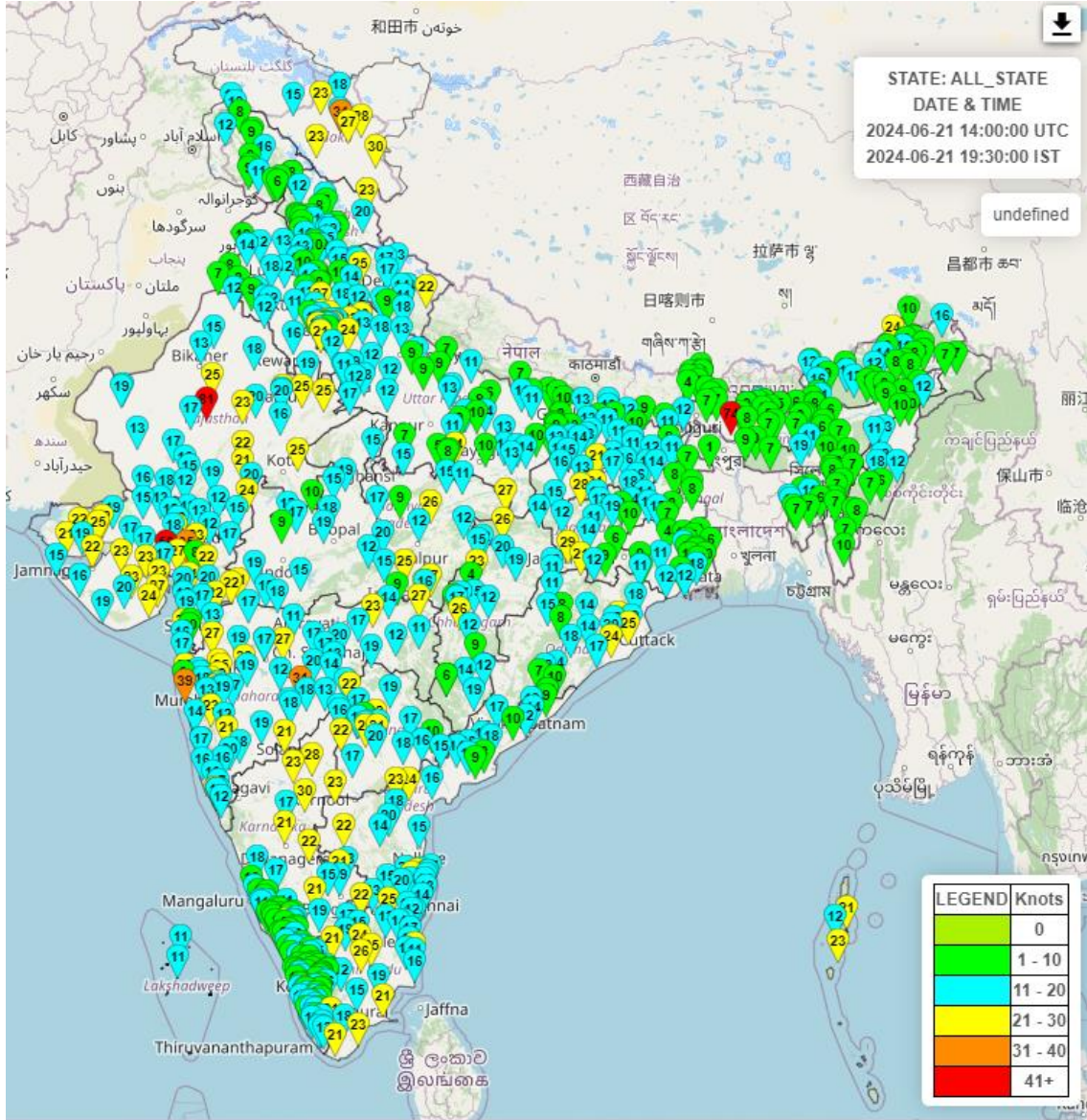
Fig. 6: Advance of Southwest Monsoon 2024

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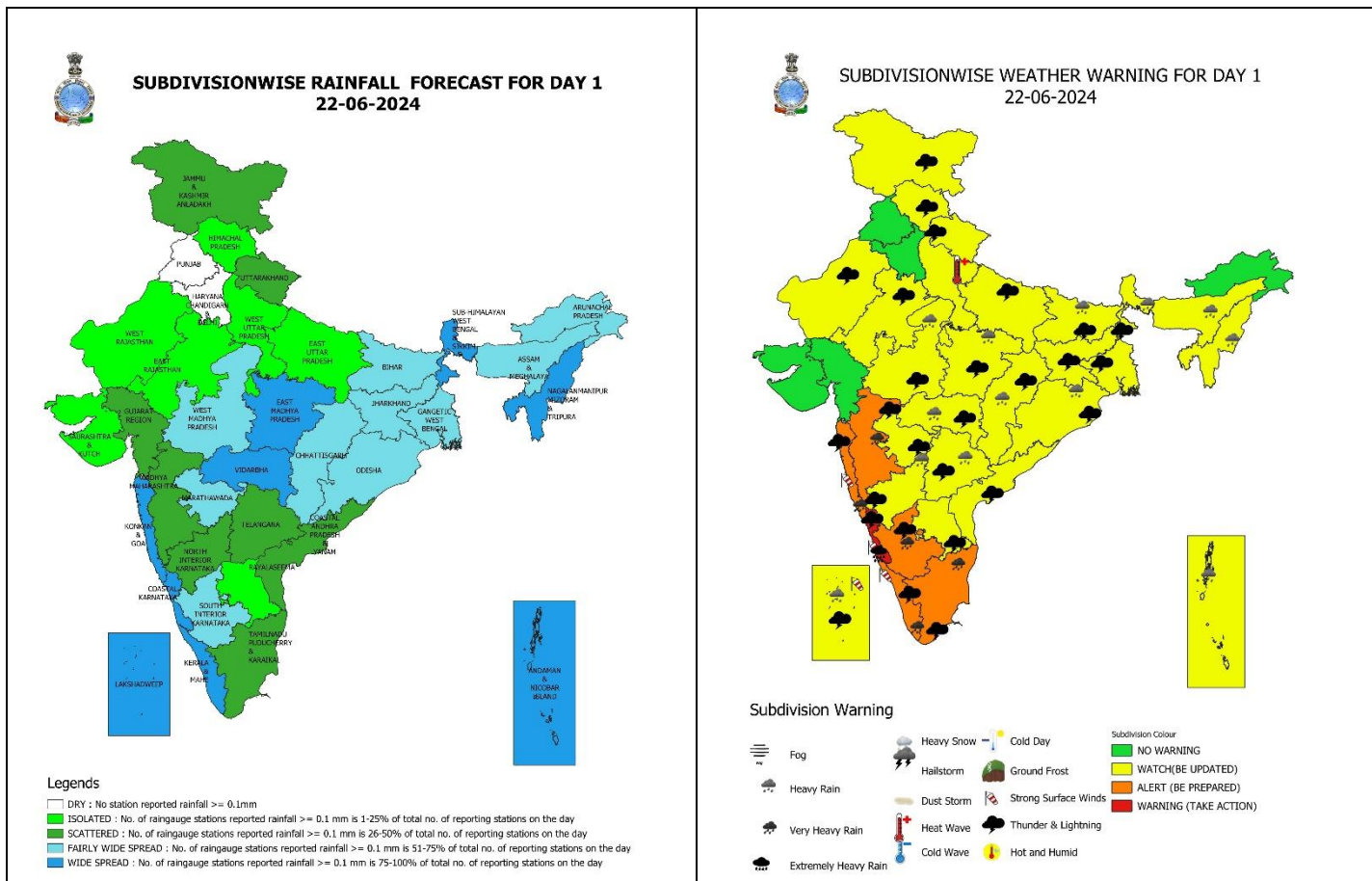
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST to 1930 hours IST of 21.06.2024



1 Knot = 1.852 kmph

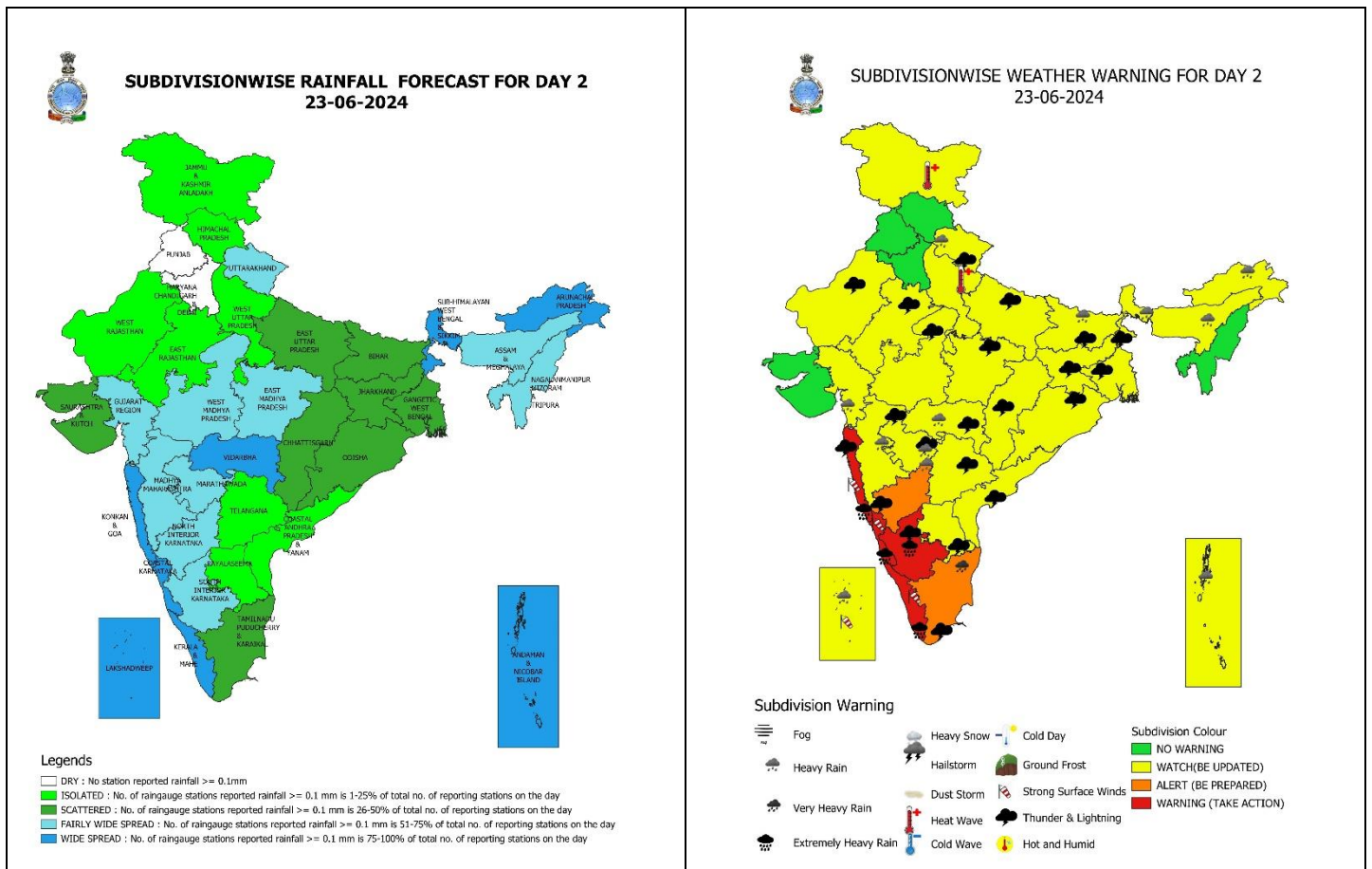
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22 June (Day 1):

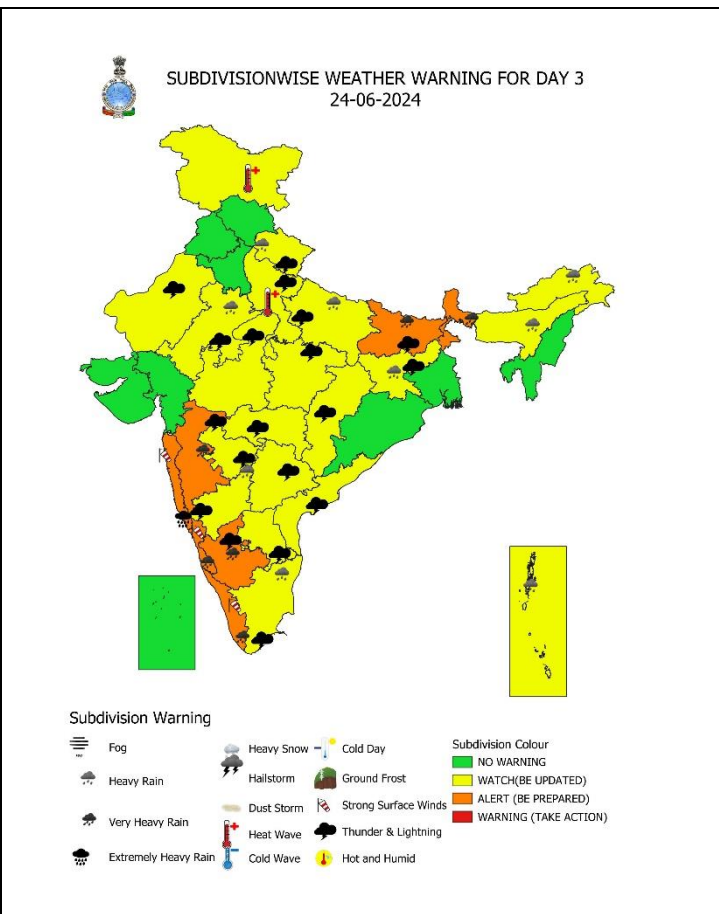
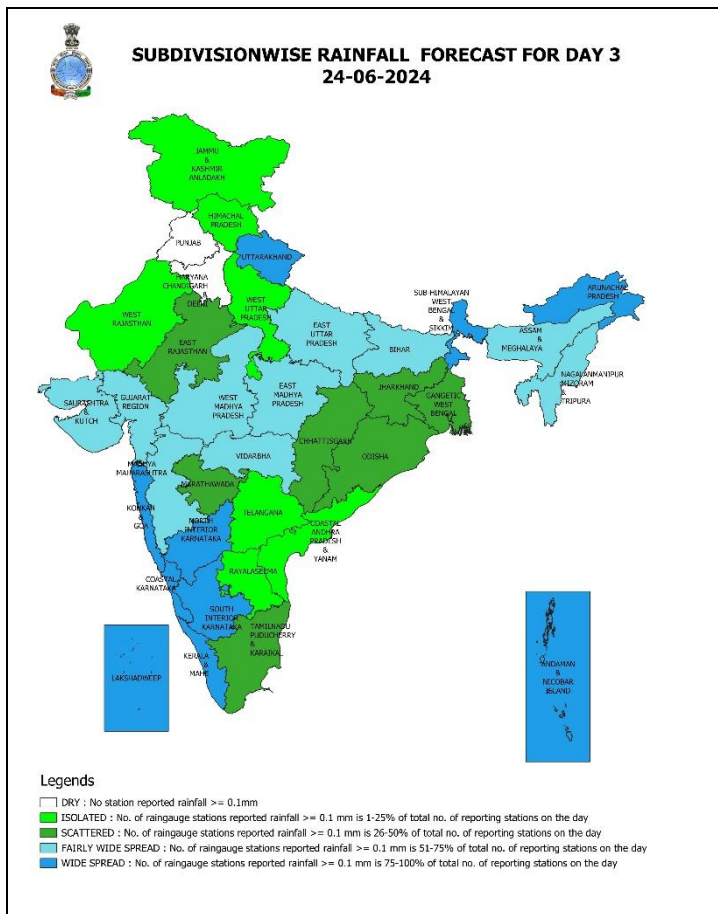
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Coastal Karnataka; **Heavy to very heavy rainfall** at isolated places over Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka; **heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep, Telangana and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Bihar; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places Uttarakhand, East Uttar Pradesh, West Rajasthan, Odisha, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Coastal Karnataka.
- ❖ **Heat wave conditions** very likely in some parts of West Uttar Pradesh.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over eastcentral & adjoining westcentral Arabian sea, northern parts of southwest Arabian Sea, southeast Arabian sea, Lakshadweep area, adjoining Maldives area, along and off south Maharashtra, Konkan, goa, Karnataka, Kerala coasts, off Sri Lanka coast, gulf of Mannar, south and central Bay of Bengal. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail along and off Somalia coast & adjoining southwest Arabian sea, west central & adjoining east central Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



23 June (Day 2):

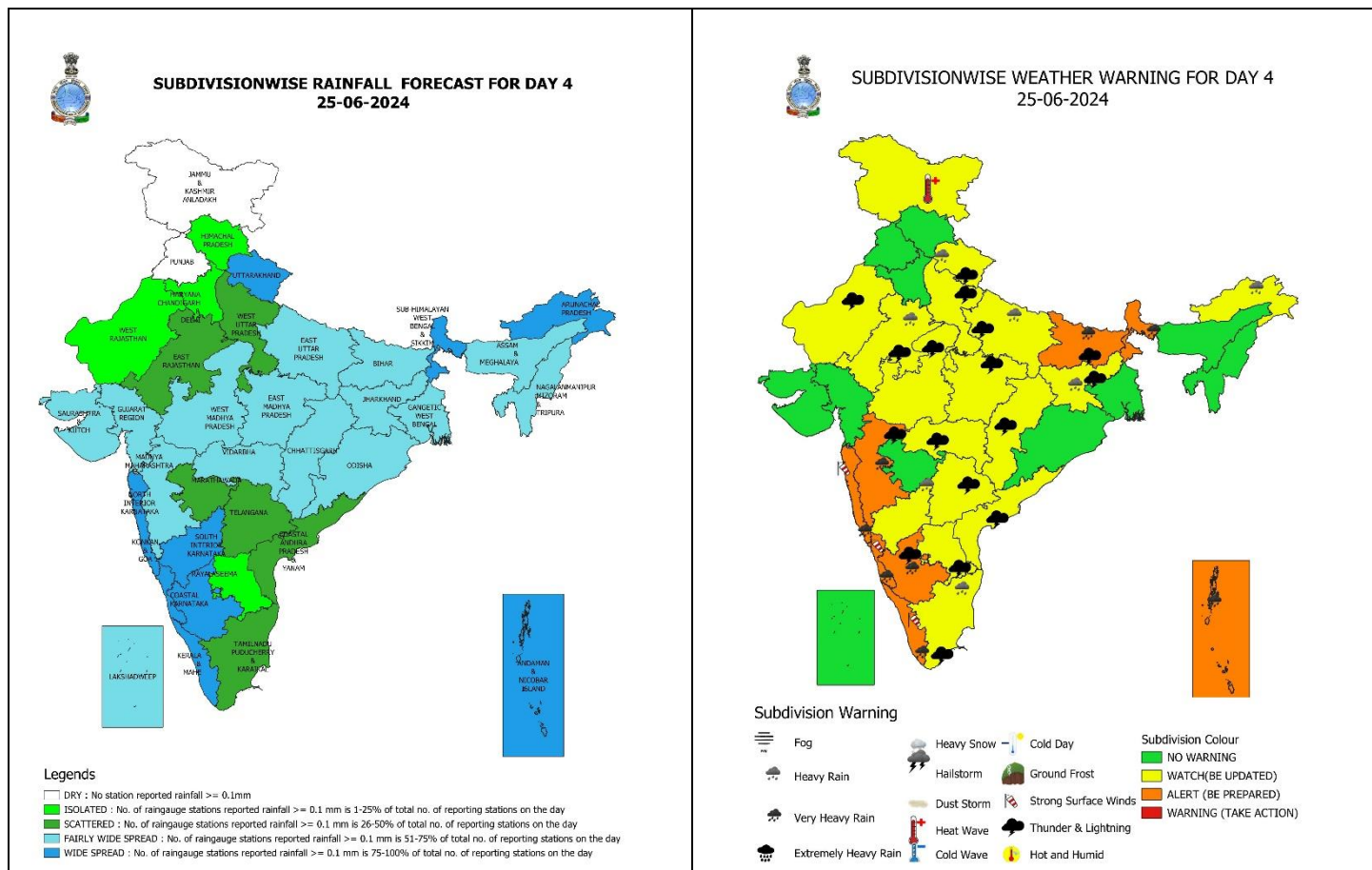
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Konkan & Goa, Kerala & Mahe, Coastal & South Interior Karnataka; **Heavy to very heavy rainfall** at isolated places over Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka; **heavy rainfall** at isolated places over Uttarakhand, Vidarbha, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Gujarat Region and Lakshadweep.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places Uttarakhand, West Rajasthan, Vidarbha, Bihar, West Bengal & Sikkim, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; **with lightning** at isolated places over Punjab, Haryana-Chandigarh-Delhi, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave conditions** very likely in some parts of West Uttar Pradesh; 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 eastcentral & adjoining westcentral Arabian sea, northern parts of southwest Arabian sea, southeast Arabian sea, Lakshadweep area, adjoining Maldives area, along and off south Maharashtra, Konkan, goa, Karnataka, Kerala coasts, off Sri Lanka coast, gulf of Mannar, south and central Bay of Bengal, adjoining northwest Bay of Bengal, Andaman Sea. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail along and off Somalia coast & adjoining southwest Arabian sea, west central & adjoining east central Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.

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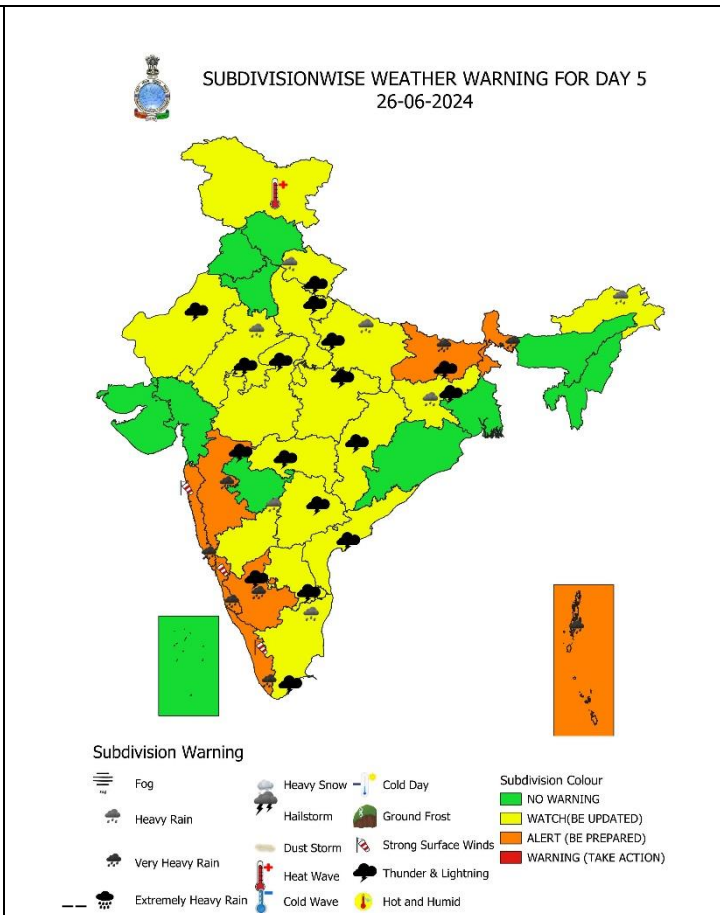
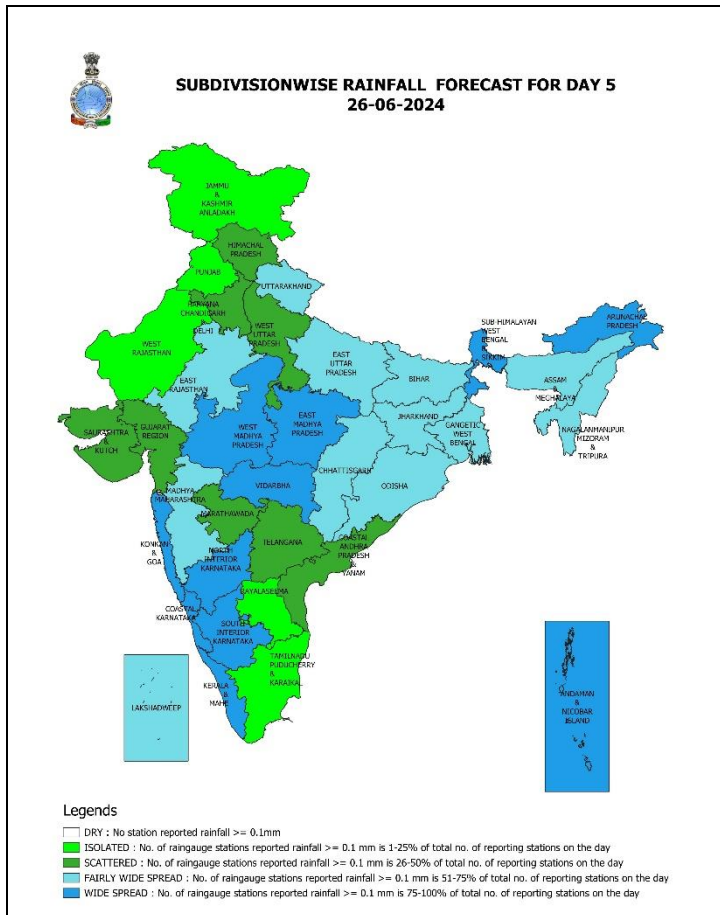
24 June (Day 3):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Konkan & Goa; **Heavy to very heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Maharashtra, Kerala & Mahe, Coastal & South Interior Karnataka; **heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, Andaman & Nicobar Islands, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places West Rajasthan, Vidarbha, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; **with lightning** at isolated places over Chhattisgarh, Madhya Maharashtra, Marathwada and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave conditions** likely in isolated pockets over Jammu division and West Uttar Pradesh.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over eastcentral & adjoining westcentral Arabian sea, northern parts of southwest Arabian sea, southeast Arabian sea, Lakshadweep area, adjoining Maldives area, along and off Maharashtra, Konkan, goa, Karnataka, Kerala coasts, off Sri Lanka coast, gulf of Mannar, south and central Bay of Bengal, Andaman Sea. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail along and off Somalia coast & adjoining southwest Arabian sea, west central & adjoining east central Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



25 June (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Coastal & South Interior Karnataka; **heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, Jharkhand, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan and Madhya Pradesh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places West Rajasthan, Vidarbha, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and South Interior Karnataka; **with lightning** at isolated places over Chhattisgarh, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave conditions** likely in isolated pockets over Jammu division.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over eastcentral & adjoining westcentral Arabian sea, northern parts of southwest Arabian sea, southeast Arabian sea, Lakshadweep area, adjoining Maldives area, along and off Maharashtra, Konkan, goa, Karnataka, Kerala coasts, off Sri Lanka coast, gulf of Mannar, south and central Bay of Bengal, Andaman Sea. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over northern parts of south Bay of Bengal and adjoining central Bay of Bengal; along and off Somalia coast & adjoining southwest Arabian sea, west central & adjoining east central Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.

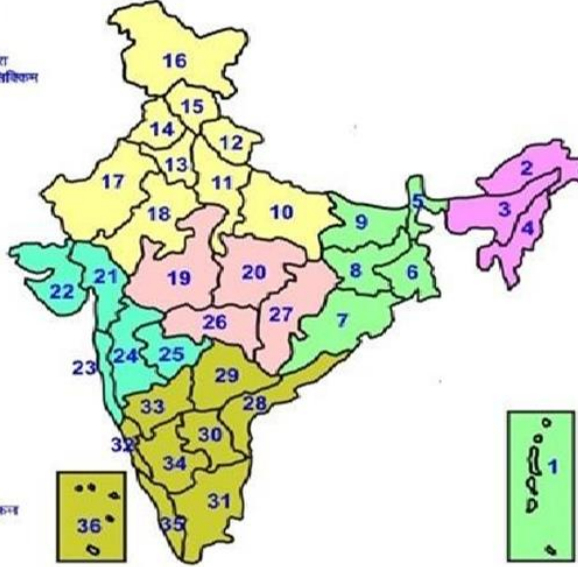


26 June (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Coastal & South Interior Karnataka; **heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, Jharkhand, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan and Madhya Pradesh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places West Rajasthan, Vidarbha, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and South Interior Karnataka; **with lightning** at isolated places over Chhattisgarh, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave conditions** likely in isolated pockets over Jammu division.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over eastcentral & adjoining westcentral Arabian sea, northern parts of southwest Arabian sea, southeast Arabian sea, Lakshadweep area, adjoining Maldives area, along and off Maharashtra, Konkan, goa, Karnataka, Kerala coasts, off Sri Lanka coast, gulf of Mannar, south and central Bay of Bengal, Andaman Sea. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail over northern parts of south Bay of Bengal and adjoining central Bay of Bengal; along and off Somalia coast & adjoining southwest Arabian sea, west central & adjoining east central Arabian sea, southern parts of north 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
- 22 सौराष्ट्र
- 23 मध्य प्रदेश
- 24 मध्य प्रदेश
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- 35 मध्य प्रदेश
- 36 मध्य प्रदेश



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. Tamilnadu, 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)
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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)