

Tuesday, May 21, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ The Northern Limit of Monsoon continues to pass through 05°N/75°E, 06°N/80°E, 07°N/85°E, Nancowry and 10°N/100°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon over some parts of Southeast Arabian Sea, some more parts of Maldives, Comorin area and South Bay of Bengal and some more parts of Andaman & Nicobar Islands and Andaman Sea during next 2 days.
- ❖ A cyclonic circulation lies over south coastal Tamil Nadu & neighbourhood and a trough runs from this cyclonic circulation to Marathwada in lower tropospheric levels. Another cyclonic circulation lies over north Kerala & neighbourhood in lower & middle tropospheric levels. Under their influence:
 - Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Karnataka and Isolated to scattered light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema during next 5 days.
 - **Isolated heavy rainfall very likely over Coastal & South Interior Karnataka during 21st-23rd; Lakshadweep during 21st-24th, Tamil Nadu, Puducherry & Karaikal during 22nd-24th May, 2024.**
 - **Isolated heavy to very heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal on 21st; Kerala & Mahe on 23rd & 24th May, 2024.**
 - **Isolated extremely heavy rainfall also very likely over Kerala on 21st & 22nd May, 2024.**
 - Widespread light to moderate rainfall very likely over Andaman & Nicobar Islands during next 7 days. **Isolated heavy rainfall very likely over Andaman & Nicobar Islands during 21st-24th May, 2024.**
 - Isolated light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Konkan & Goa, Madhya Maharashtra, Marathwada on 21st & 22nd; Vidarbha & Chhattisgarh during 21st-24th and Madhya Pradesh on 21st May, 2024.
- ❖ A trough runs from northwest Uttar Pradesh to east Bangladesh in lower tropospheric levels. Under its influence:
 - Scattered to fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Gangetic West Bengal during next 7 days. Isolated to scattered light to moderate rainfall over Odisha, Bihar and Jharkhand during 21st-24th May and increase thereafter with scattered to fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over East India during 25th-28th May.
 - **Isolated heavy to very heavy rainfall very likely over north Odisha and Gangetic West Bengal on 24th & 25th May, 2024.**
 - Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam, Meghalaya, Nagaland, Manipur, Mizoram and Tripura during next 5 days.
 - **Isolated heavy rainfall likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya on 21st May, 2024.**
- ❖ A Western Disturbance as a trough aloft in middle tropospheric westerlies runs roughly along long. 70°E to the north of lat. 32°N. Under its influence; isolated light rainfall with **thunderstorm, lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 21st May and Uttarakhand during next 7 days.
- ❖ **Strong and gusty surface winds speed reaching 25-35 kmph** very likely to prevail over Uttar Pradesh, Haryana, Chandigarh & Delhi and Rajasthan during 21st-24th May, 2024.

Fishermen warning:

- ❖ Fishermen are advised not to venture into Central Bay of Bengal from 23rd May and into North Bay of Bengal from 24th May onwards; Gulf of Mannar, Comorin & Maldives areas during 21st-24th May, 2024. Fishermen out at sea are advised to return to the coast before 23rd May, 2024.
- ❖ Fishermen are advised not to venture along & off Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep coasts during 21st-23rd and Kerala and Andaman & Nicobar Islands coasts during 21st-24th May, 2024.

Maximum temperature observation:

- ❖ **Areas having maximum temperatures greater than 40°C:** Yesterday, maximum temperatures were in the range of 44-47°C in most places over Haryana-Chandigarh-Delhi; in many parts of Rajasthan; in some places over Gujarat Region, Punjab, West Madhya Pradesh, Uttar Pradesh; in the range of 40- 44°C in many parts of Vidarbha, East Madhya Pradesh; in some parts of Madhya Maharashtra, Marathwada, Saurashtra & Kutch. These were above normal by 4-6°C at many places over Delhi and above normal by 2-4°C over many parts of Punjab, Haryana-Chandigarh; in isolated pockets of Rajasthan, Saurashtra & Kutch and West Uttar Pradesh.

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

- ❖ **Heat wave to severe heat wave conditions very likely in many/most pockets over Punjab, Haryana-Chandigarh-Delhi, West Rajasthan; in some parts of West Uttar Pradesh, East Rajasthan & northwest Madhya Pradesh during 21st-24th May, 2024.**
- ❖ **Heat wave conditions** very likely in isolated pockets of East Uttar Pradesh on 21st & 22nd; Himachal Pradesh, Gujarat state and northeast Madhya Pradesh during 21st-24th; Odisha during 21st-23rd and over Jammu division & Vidarbha during 22nd-24th May, 2024.
- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa, Bihar, Jharkhand on 21st 20th May, 2024.
- ❖ **Warm night conditions** very likely to prevail over West Uttar Pradesh, Gujarat State and Rajasthan during 21st-24th May, 2024.

* 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)

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Kerala & Mahe: **at many places** over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Lakshadweep, Tamil Nadu, Puducherry & Karaikal; **at a few places** over Himachal Pradesh, Bihar, Gangetic West Bengal, Telangana and Rayalaseema; **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Odisha, Madhya Pradesh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.
- ❖ **Heavy rainfall** observed (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Tamil Nadu:** Tiruchirapalli-10, Tondi-8, Valparai-4, Uthagamandalam-3, Ariyalur-3, Conoor & Salem-2 each; **Kerala & Mahe:** Thiruvananthapuram-6, Punalur, Alapuzha-3, Kochi-2, Thrissur-2, Kozhikode-2; **Gangetic West Bengal:** Kolkata-6, Canning-5; **Madhya Maharashtra:** Jeur-2; **Odisha:** Koenjharagadh-2.
- ❖ **Maximum wind speed reported** (from 0830 hours IST to 1730 hours IST of yesterday) (in knots): Rajasthan: Jaipur-36; Madhya Pradesh: Shivpuri-32, Sagar-36, Seoni-36; Jharkhand: Khunti-43, Simdega-31; Odisha: Koriya-36, Korba-34, Mayurbhanj-34, Ganjam-34; Gangetic West Bengal: Canning-32 and Maharashtra -Pune-35.
- ❖ **Yesterday, Heat wave to severe heat wave conditions** observed in many places over Haryana & Delhi. **Heat wave conditions** observed in some pockets over Rajasthan and Uttar Pradesh and isolated pockets of Punjab, Gujarat and Madhya Pradesh. **Heat wave conditions** have been prevailing over Gujarat region since 15th; Saurashtra & Kutch since 16th and over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan since 17th May, 2024.
- ❖ **Minimum Temperature Departures (as on 20-05-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over East Rajasthan, Uttar Pradesh, Haryana-Chandigarh-Delhi, Gujarat Region and Gangetic West Bengal; **above normal (1.6°C to 3.0°C)** at many places over Himachal Pradesh, Uttarakhand, Punjab, Arunachal Pradesh and West Madhya Pradesh; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Bihar; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya and Madhya Maharashtra. These were **below normal (-1.6°C to -3.0°C)** at isolated places over West Madhya Pradesh, Vidarbha, Telangana, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 20.0°C** was reported at **Sagar (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 20-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Haryana-Chandigarh-Delhi; **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab; at isolated places over West Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Gujarat state, Arunachal Pradesh and at isolated places over West Madhya Pradesh and Madhya Maharashtra. These were **markedly below normal (-5.1°C or less)** at isolated places Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Bihar, Telangana; and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 47.4°C** was reported at **Najafgarh (Delhi)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon continues to pass through 05°N/75°E, 06°N/80°E, 07°N/85°E, Nancowry and 10°N/100°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon over some parts of Southeast Arabian Sea, some more parts of Maldives, Comorin area and South Bay of Bengal and some more parts of Andaman & Nicobar Islands and Andaman Sea during next 2 days.
- ❖ The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along long. 70°E to the north of lat. 32°N.
- ❖ The cyclonic circulation over northwest Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over northwest Uttar Pradesh to west Vidarbha across West Madhya Pradesh at 0.9 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over northwest Uttar Pradesh to east Bangladesh across East Uttar Pradesh, south Bihar, Jharkhand & Gangetic West Bengal at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Northwest Bay of Bengal & adjoining north Odisha-West Bengal coasts at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over south coastal Tamil Nadu & neighbourhood extending upto 3.1 km above mean sea level tilting southwestwards with height persists.
- ❖ The trough from above cyclonic circulation over south coastal Tamil Nadu to North Interior Karnataka across South Interior Karnataka at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over north Kerala & neighbourhood between 1.5 km & 5.8 km above mean sea level persists.
- ❖ A Low Pressure Area is likely to form over Southwest Bay of Bengal around 22nd May, 2024. It is likely to move initially northeastwards and concentrate into a Depression over central parts of Bay of Bengal by morning of 24th May, 2024.

Weather Forecast for next 7 days (Upto 0830 hours IST of 28th May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Gradual rise by about 2-3°C in maximum temperatures very likely over many parts of Northwest & Central India during next 4 days.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 28th-30th May, 2024)

- ❖ Scattered to fairly widespread rainfall likely over Islands, East India and extreme south peninsular India.
- ❖ Dry weather likely to prevail over rest parts of the country.

Table-1

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

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

* 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)

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

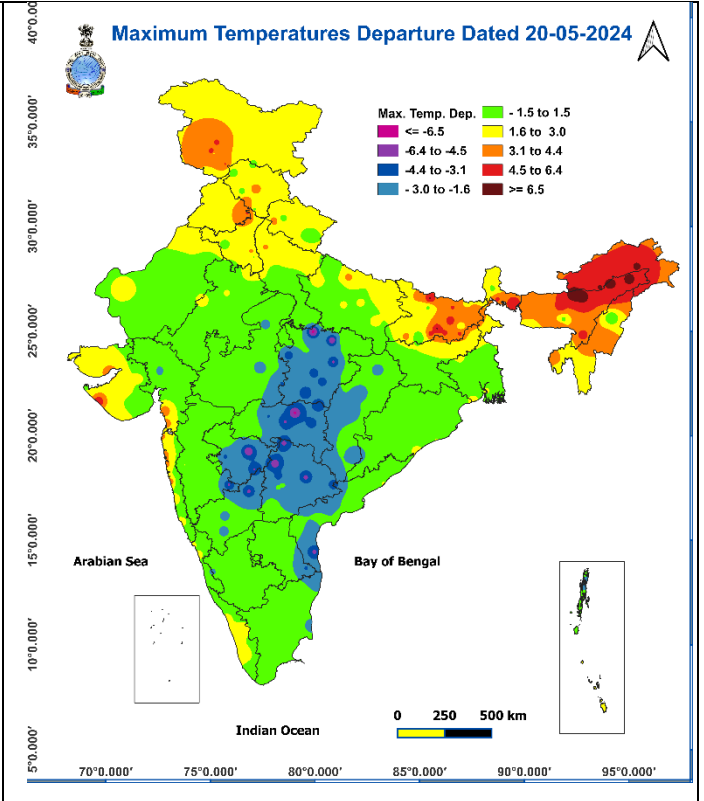
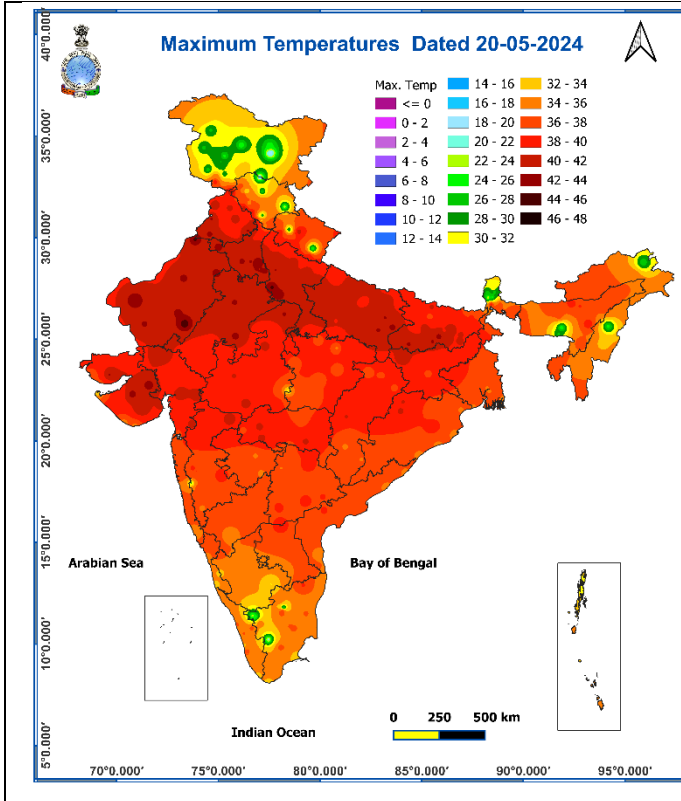


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

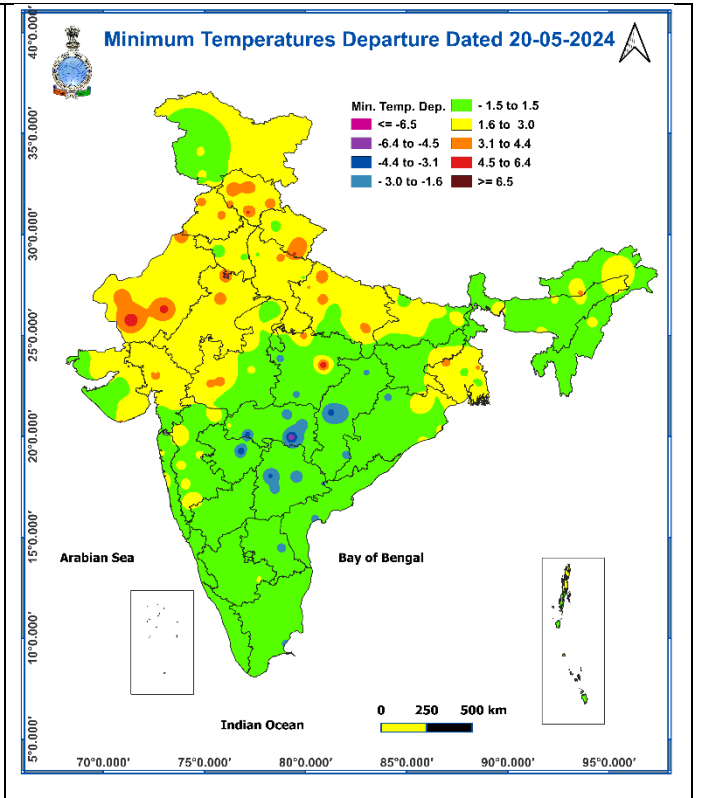
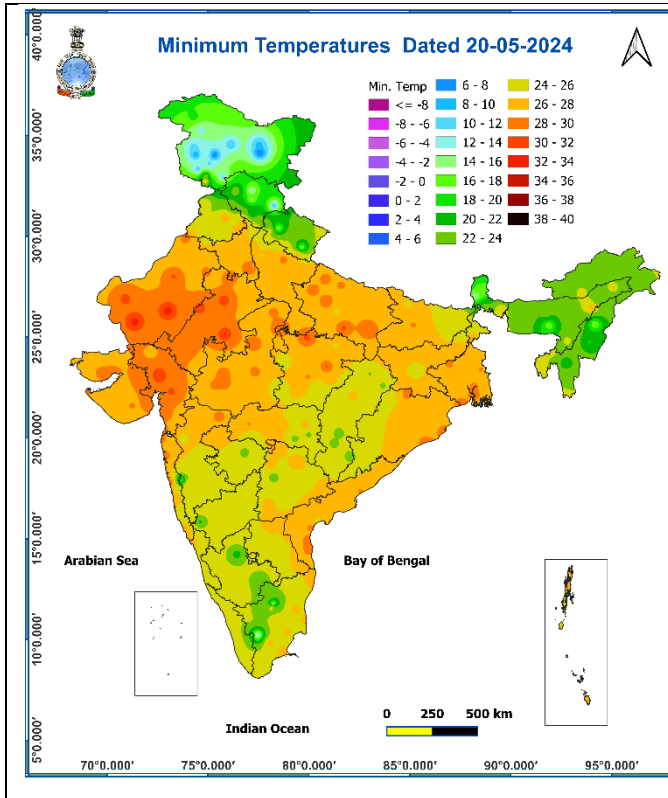
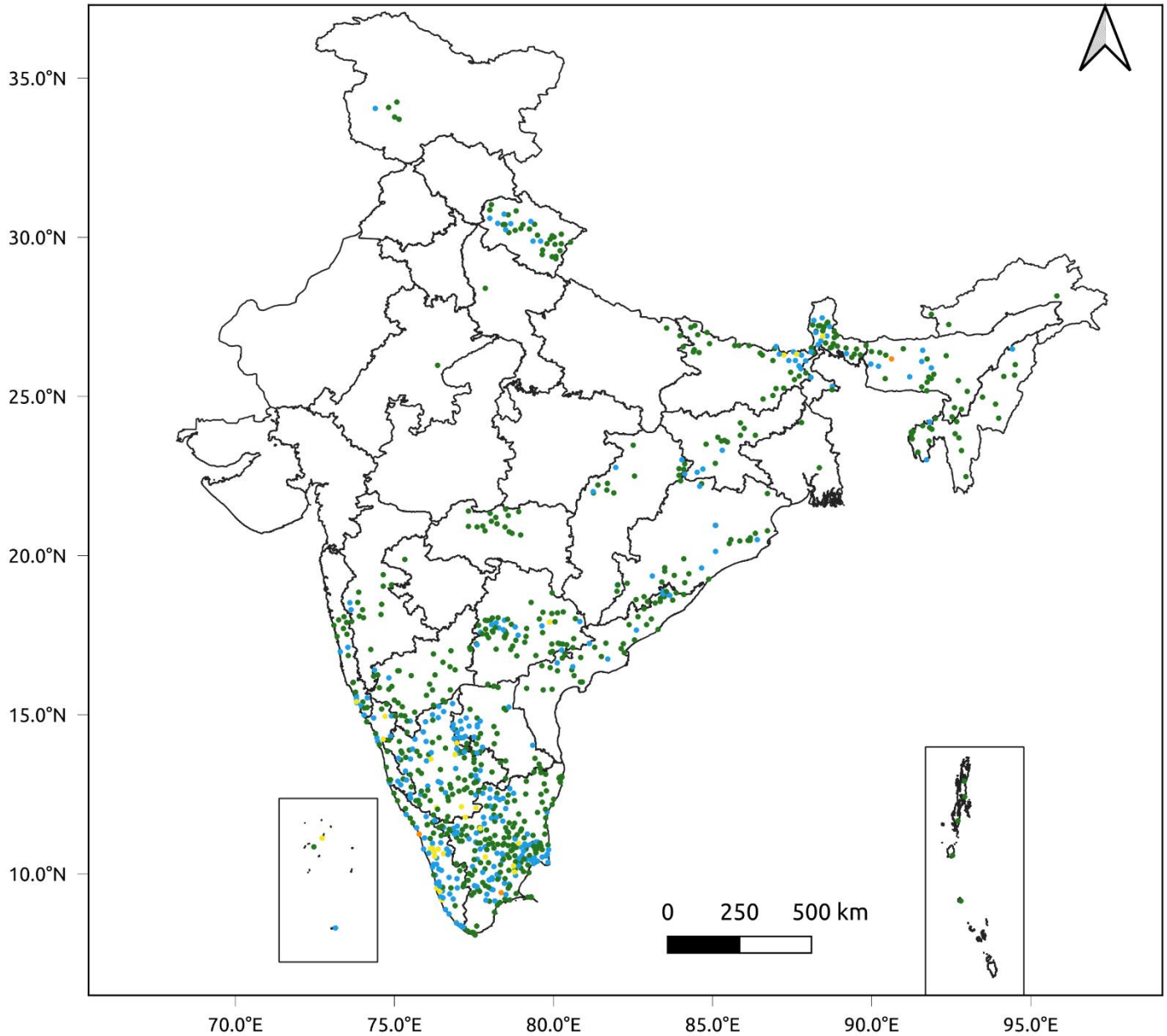


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



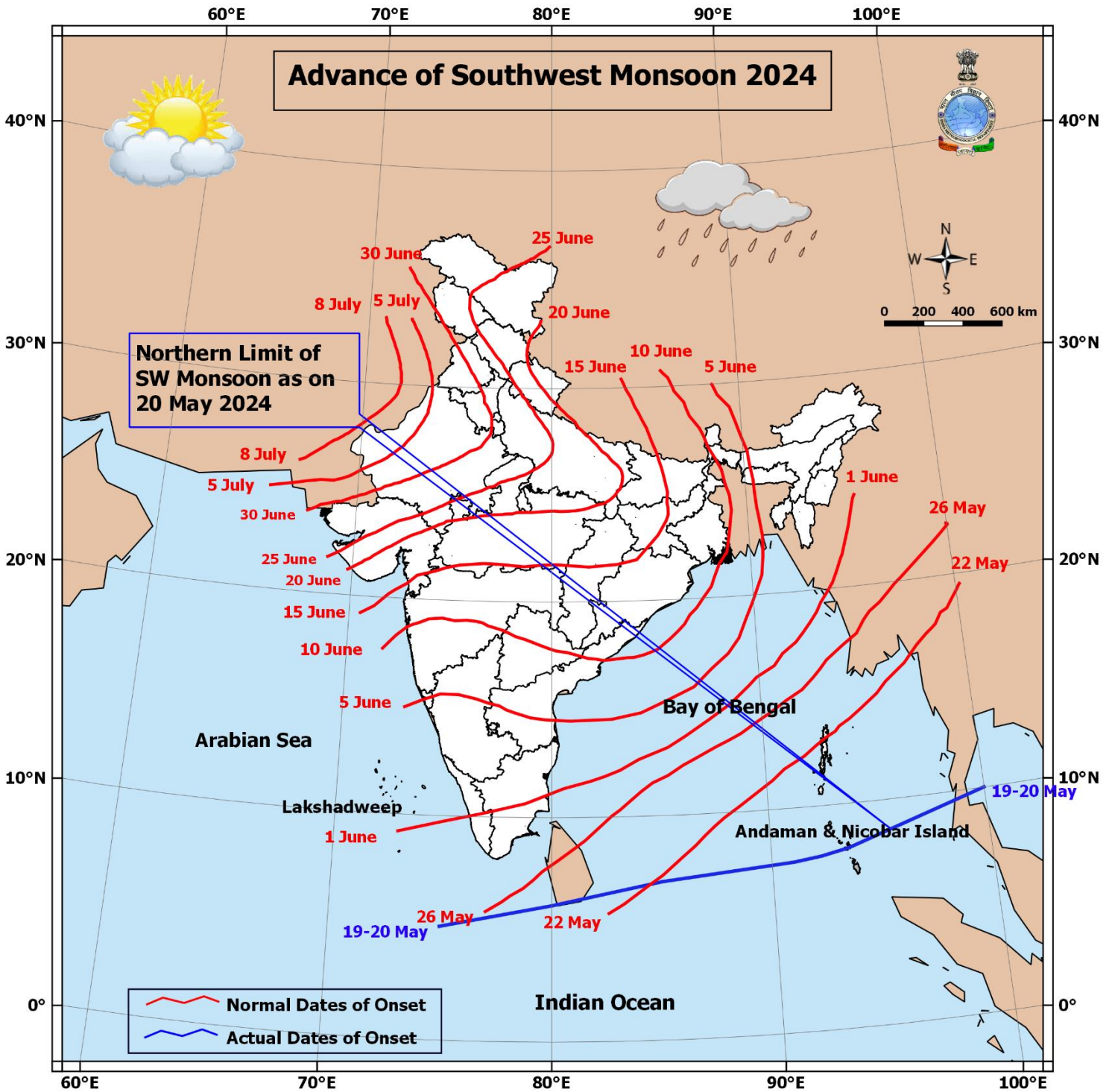
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 19-5-2024 to 0830 IST of 20-5-2024



Legends

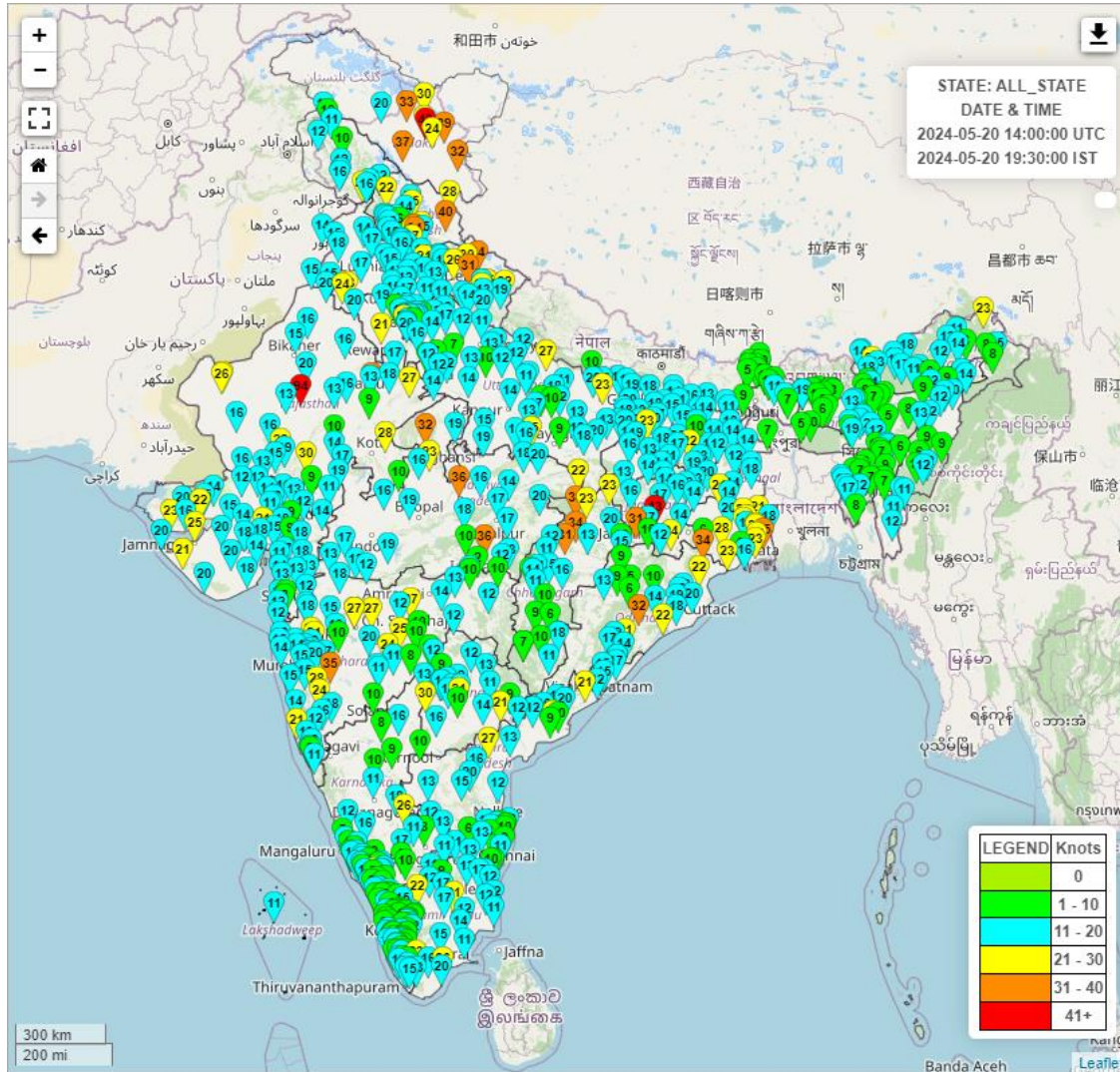
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



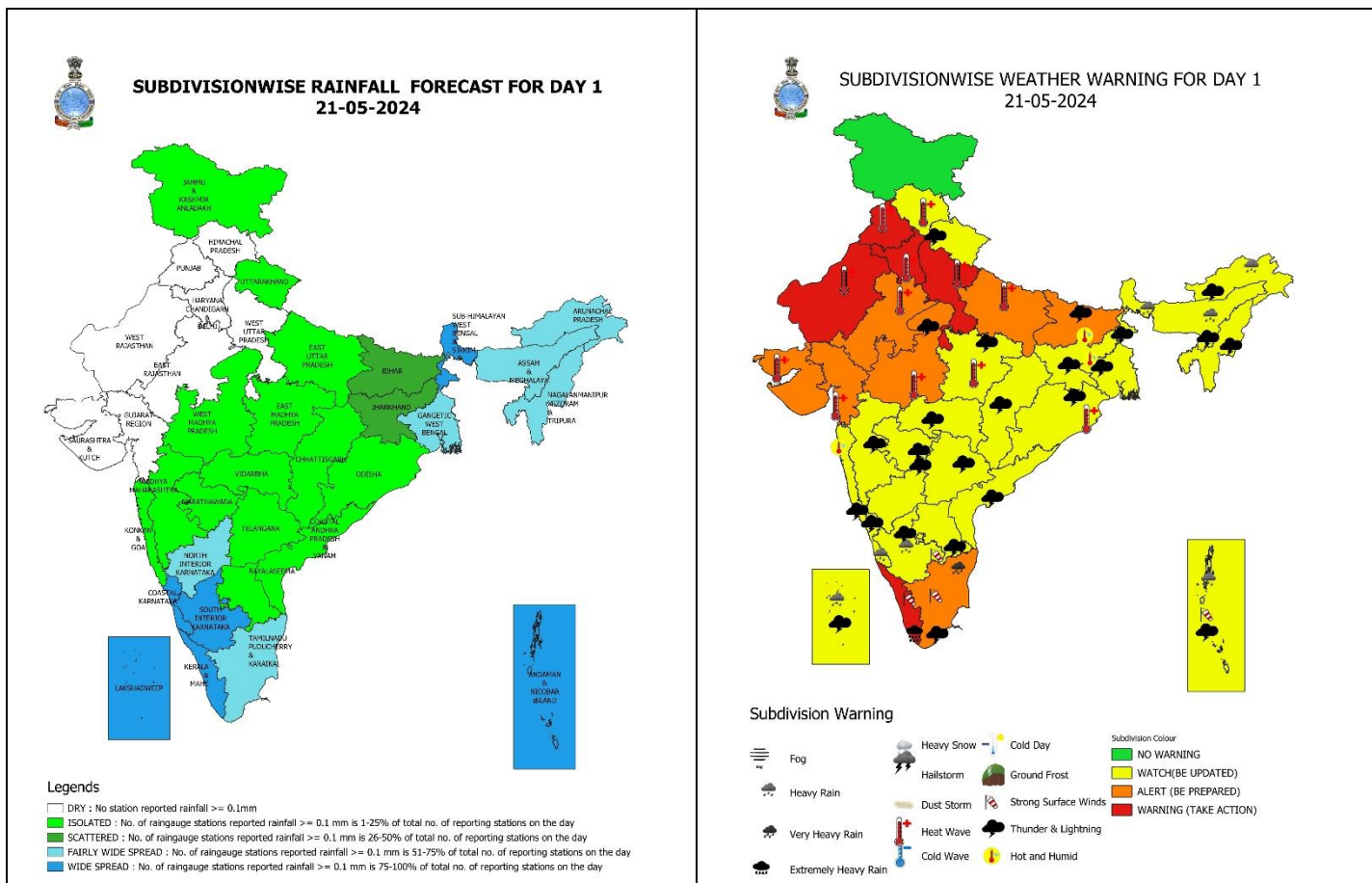
* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599
(Service to the Nation since 1875)

Fig. 7: Gusty winds reported over the country (in knots) from 0830 hrs IST of 20.05.2024 to 1930 hrs IST of 20.05.2024



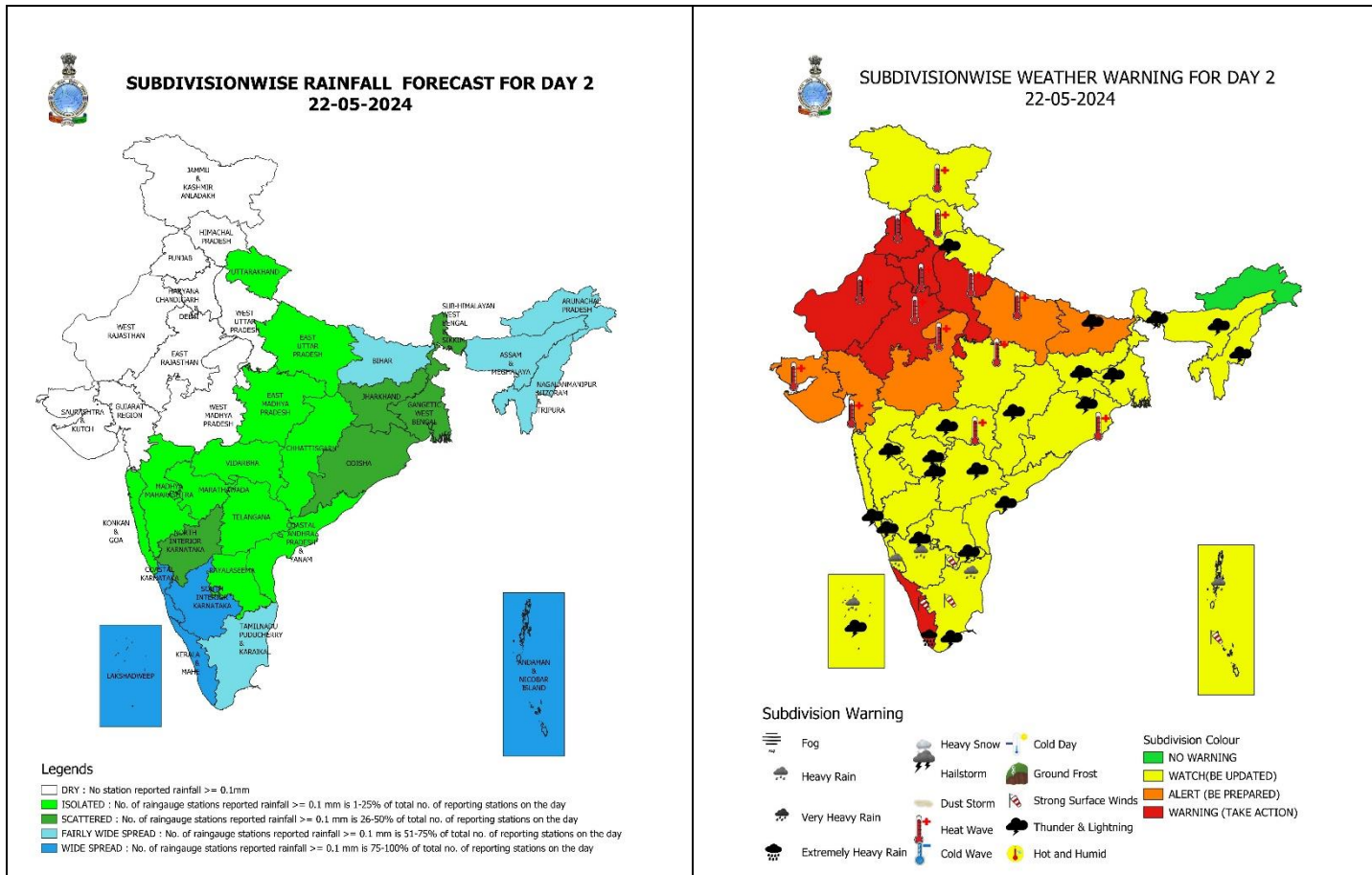
1 Knot = 1.852 kmph

For more details, kindly refer: <http://aws.imd.gov.in:8091/>



21 May (Day 1):

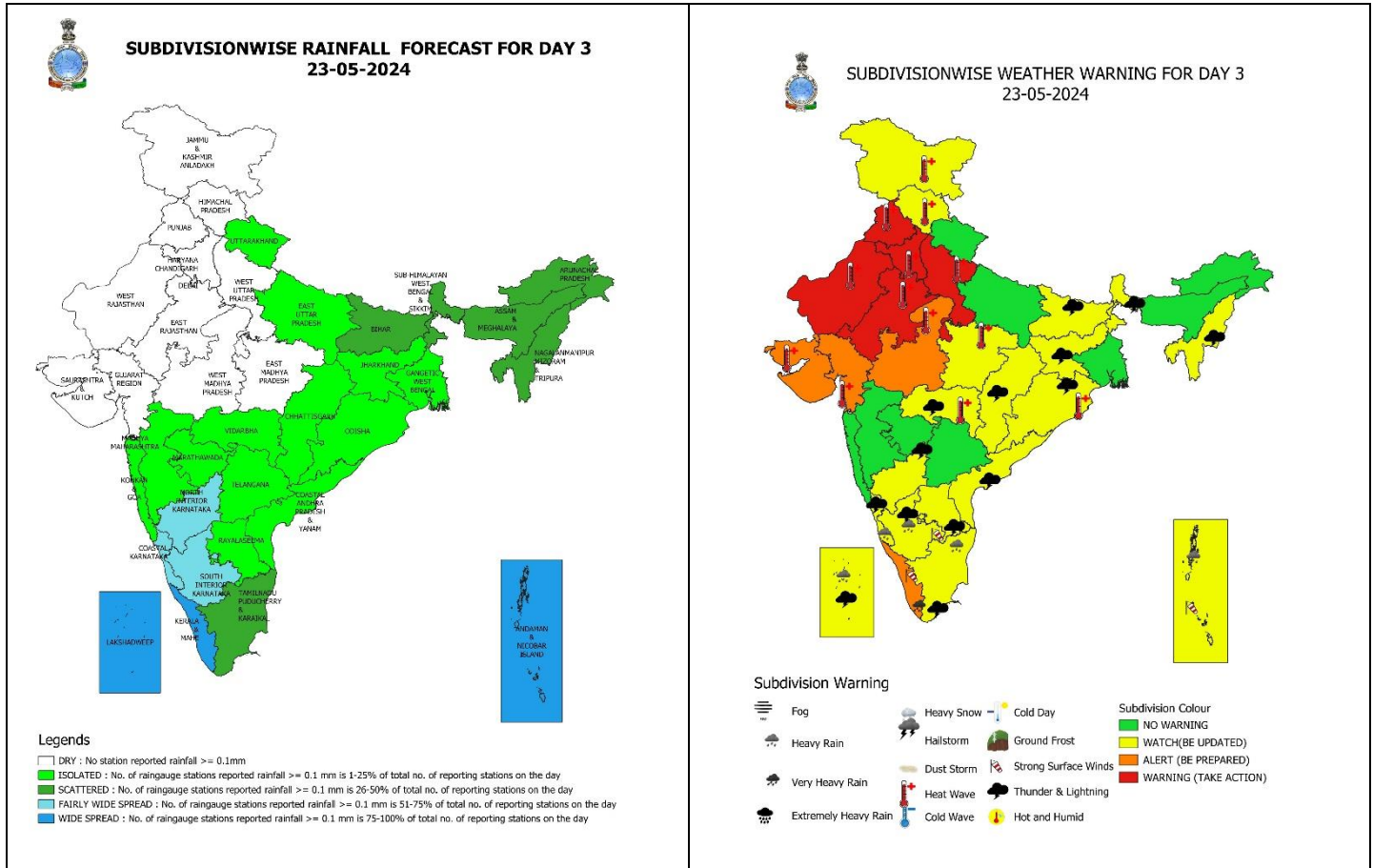
- ❖ **Heavy to very Heavy rainfall with extremely heavy falls** very likely at isolated places over Kerala & Mahe; **Heavy to very heavy rainfall** at isolated places over Tamil Nadu, Puducherry & Karaikal; **Heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Lakshadweep and Coastal & South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over East Madhya Pradesh, Gangetic West Bengal, Bihar, Jharkhand, Madhya Maharashtra and Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana; **with lightning** at isolated places over Andaman & Nicobar Islands, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** very likely to prevail in most parts over West Rajasthan; in many parts over Punjab, Haryana-Chandigarh-Delhi; in some parts of West Uttar Pradesh; in isolated pockets over northwest Madhya Pradesh; **heat wave conditions** in some parts of East Rajasthan; in isolated pockets over Himachal Pradesh, northeast Madhya Pradesh, Odisha and Gujarat state.
- ❖ **Hot and humid weather** very likely to prevail over Bihar, Jharkhand and Konkan & Goa.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over West Uttar Pradesh, Rajasthan and Gujarat state.
- ❖ **Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph** very likely to prevail along and off Karnataka, Kerala, Tamil Nadu & Sri Lanka coasts, Lakshadweep, Maldives areas, Comorin Area, Gulf of Mannar, south and adjoining central Bay of Bengal, adjoining eastcentral Bay of Bengal, Andaman Sea; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** prevailing along and off Kerala, Sri Lanka coasts, Comorin area, Gulf of Mannar, Southwest and adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.



22 May (Day 2):

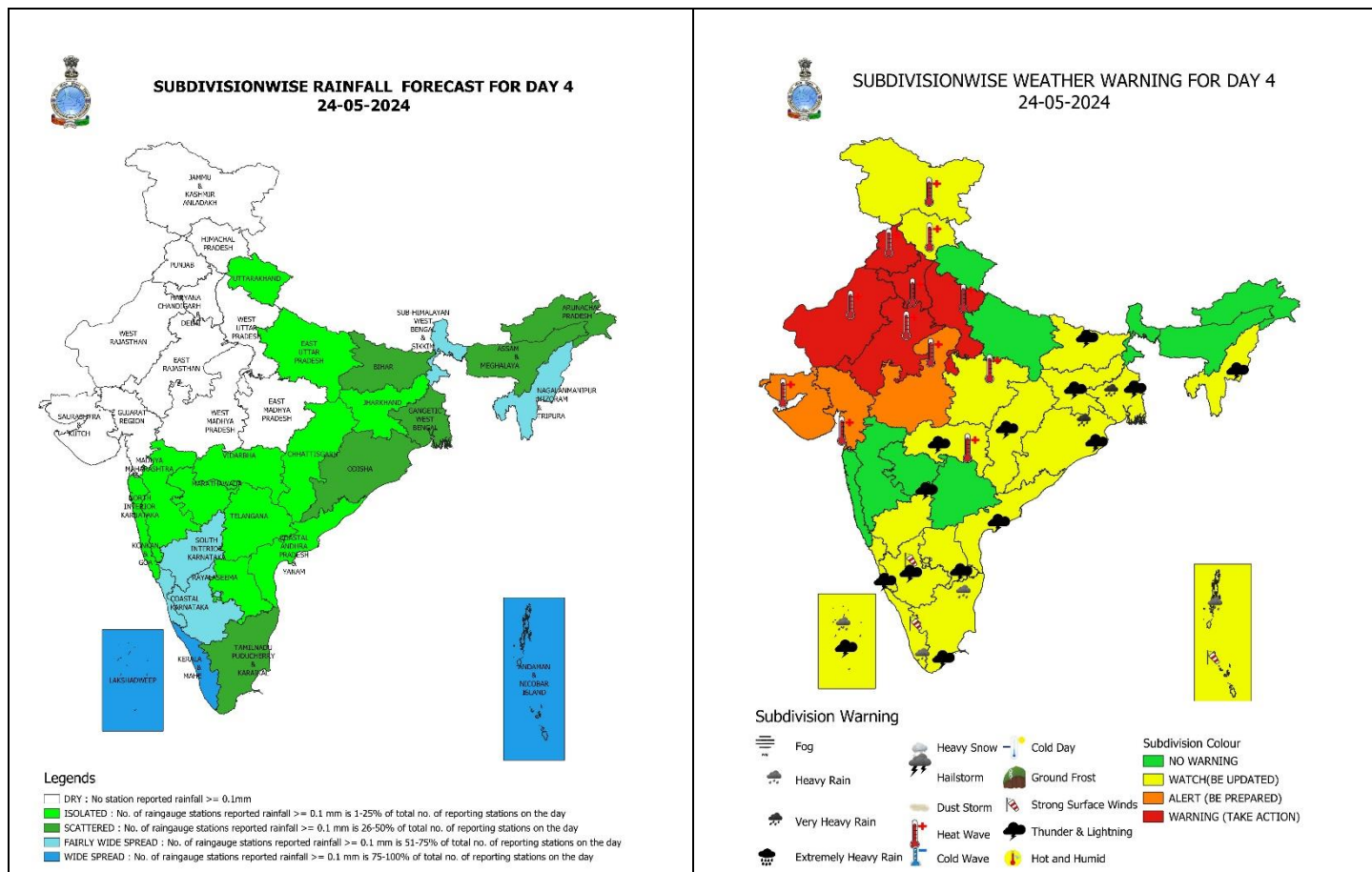
- ❖ **Heavy to very Heavy rainfall with extremely heavy falls** very likely at isolated places over Kerala & Mahe; **Heavy rainfall** at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal & South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand and Madhya Maharashtra; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Konkan & Goa, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** very likely to prevail in most parts of West Rajasthan; in many parts of Punjab, Haryana-Chandigarh-Delhi; in some parts of West Uttar Pradesh and East Rajasthan; in isolated pockets over northwest Madhya Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Odisha and Gujarat state.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over West Uttar Pradesh and Rajasthan.
- ❖ **Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph** very likely to prevail along and off Karnataka, Kerala, & Sri Lanka coasts Lakshadweep, Maldives areas, Comorin Area, Gulf of Mannar, south and adjoining central Bay of Bengal, Andaman Sea; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** prevailing along and off south Kerala, Sri Lanka coasts, Comorin Area, Gulf of Mannar, southwest and adjoining southeast Bay of Bengal, Somalia coast. Fishermen are advised not to venture into these areas.

* 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)



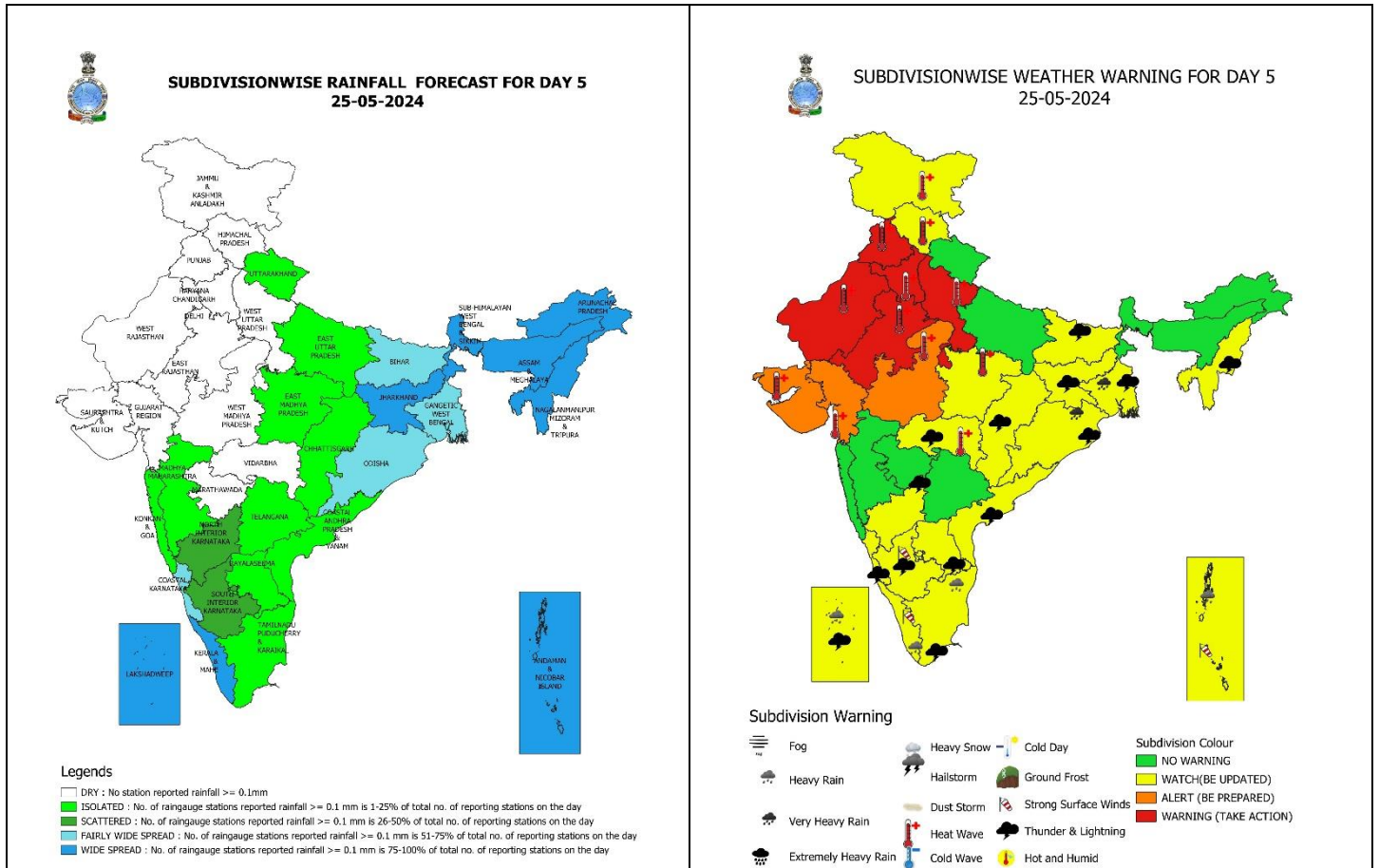
23 May (Day 3):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Kerala & Mahe and **Heavy rainfall** at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Coastal & South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Bihar; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka; **with lightning** at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in most parts of West Rajasthan; in many parts of Punjab, Haryana-Chandigarh-Delhi; in some parts of West Uttar Pradesh and East Rajasthan; in isolated pockets over northwest Madhya Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, East Madhya Pradesh, Vidarbha, Odisha and Gujarat state.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over West Uttar Pradesh and Rajasthan.
- ❖ **Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off south Karnataka, Kerala, Sri Lanka coasts, Lakshadweep, Maldives areas, Comorin Area, Gulf of Mannar, south and central Bay of Bengal, Andaman Sea; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** prevailing along and off south Kerala, Sri Lanka coasts, Comorin Area, Gulf of Mannar, south and adjoining central Bay of Bengal, Somalia coast. Fishermen are advised not to venture into these areas.



24 May (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Gangetic West Bengal and north Odisha; **Heavy rainfall** at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Odisha; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka; **with lightning** at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in most parts of West Rajasthan; in many parts of Punjab, Haryana-Chandigarh-Delhi; in some parts of West Uttar Pradesh and East Rajasthan; in isolated pockets over northwest Madhya Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, East Madhya Pradesh, Vidarbha and Gujarat state.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over West Uttar Pradesh and Rajasthan.
- ❖ **Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Kerala, & Sri Lanka coasts, Comorin area, Gulf of Mannar, South & Central Bay of Bengal and adjoining north Bay of Bengal, Andaman Sea with wind speed 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Sri Lanka coast, Comorin area, Gulf of Mannar, South and Central Bay of Bengal and along and off Somalia coast; with wind speed 50 kmph to 60 kmph gusting to 70 kmph likely to prevailing over westcentral Bay of Bengal. Fishermen are advised not to venture into these areas.

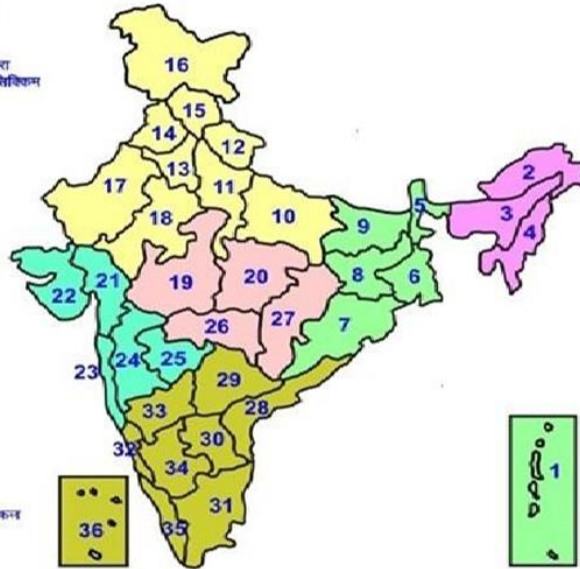


25 May (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Gangetic West Bengal and north Odisha; **Heavy rainfall** at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Odisha; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka; **with lightning** at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in most parts of West Rajasthan; in many parts of Punjab, Haryana-Chandigarh-Delhi; in some parts of West Uttar Pradesh and East Rajasthan; in isolated pockets over northwest Madhya Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, East Madhya Pradesh, Vidarbha and Gujarat state.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over West Uttar Pradesh and Rajasthan.
- ❖ **Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Kerala, & Sri Lanka coasts, Comorin area, Gulf of Mannar, South & Central Bay of Bengal and adjoining north Bay of Bengal, Andaman Sea with wind speed 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Sri Lanka coast, Comorin area, Gulf of Mannar, north, South and Central Bay of Bengal and along and off Somalia coast; with wind speed 50 kmph to 60 kmph gusting to 70 kmph likely to prevailing over westcentral Bay of Bengal. Fishermen are advised not to venture into these areas.

LEGENDS

- 1 अंडमन और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप-हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा, चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सौराष्ट्र
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तेलंगाना
- 29 तेलंगाना
- 30 तेलंगाना
- 31 तेलंगाना
- 32 तेलंगाना
- 33 तेलंगाना
- 34 तेलंगाना
- 35 तेलंगाना
- 36 तेलंगाना



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)