

Thursday, May 23, 2024
Time of Issue: 0830 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ Yesterday, Southwest Monsoon had advanced into some parts of South Arabian Sea, some more parts of Maldives, Comorin area, South Bay of Bengal, some more parts of Andaman & Nicobar Islands and Andaman Sea.
- ❖ The Northern Limit of Monsoon passes through 05°N/60°E, 06°N/70°E, 6.5°N/75°E, 7.5°N/80°E, 10°N/85°E, Mayabandar and 16°N/100°E.
- ❖ Conditions are favorable for advance of Southwest Monsoon over some more parts of south Bay of Bengal, remaining parts of Andaman & Nicobar Islands, Andaman Sea and some parts of eastcentral Bay of Bengal during next 2 days.
- ❖ A cyclonic circulation lies over south Kerala 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, Coastal & South Interior Karnataka and Isolated to scattered light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and Rayalaseema during next 5 days.
 - **Isolated heavy rainfall very likely over Coastal & South Interior Karnataka and Lakshadweep on 23rd; Tamil Nadu, Puducherry & Karaikal on 24th; Kerala on 24th & 25th May, 2024.**
 - **Isolated heavy to very heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 23rd 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 23rd-25th May.**
 - Isolated light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Madhya Pradesh on 23rd and Chhattisgarh during 23rd-26th May, 2024.
- ❖ A cyclonic circulation lies over Bangladesh & adjoining West Bengal and a trough runs from southeast Rajasthan to Jharkhand in lower tropospheric levels. Under their influence:
 - Scattered to fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Gangetic West Bengal and isolated to scattered light to moderate rainfall over Odisha, Bihar and Jharkhand during next 7 days.
 - Scattered to fairly 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 very likely over Arunachal Pradesh and Assam & Meghalaya on 26th May, 2024.**

Low Pressure Area over Southwest & adjoining Westcentral Bay of Bengal:

- ❖ The **Low Pressure Area** over Southwest & adjoining Westcentral Bay of Bengal has moved northeastwards and lay over Westcentral & adjoining Southwest Bay of Bengal with the associated cyclonic circulation extending upto 7.6 km above mean sea level. It is very likely to move northeastwards and concentrate into a Depression over central parts of Bay of Bengal by morning of 24th May, 2024. It is likely to move northeastwards, intensify further and reach northeast & adjoining northwest Bay of Bengal by 25th evening.

Heavy Rainfall Warning:

- (a) Light to moderate rainfall at many places with heavy rainfall at isolated places is likely over North & South 24 Parganas, East Medinipur districts of West Bengal on 25th and 26th and Balasore district of Odisha during 25th-27th May.
- (b) Light to moderate rainfall at many places with heavy rainfall at isolated places is likely over Mizoram, Tripura and South Manipur on 25th and 26th May.

Fishermen Warning: Fishermen are advised not to venture into central & adjoining south Bay of Bengal from 23rd May and into North Bay of Bengal from 24th May onwards till 26th May. Fishermen out at sea are advised to return to the coast before 23rd May.

Maximum temperature observation and forecast for next 5 days:

- ❖ **Areas having maximum temperatures greater than 40°C:** Yesterday, maximum temperatures were in the range of 44-47°C in many places over Rajasthan; in some places over Gujarat state; in isolated pockets over Haryana, West Uttar Pradesh and West Madhya Pradesh; in the range of 40- 44°C in many places over Punjab, Delhi, East Madhya Pradesh, Vidarbha and Marathwada; in some parts of Chhattisgarh, Odisha and Telangana; in isolated pockets of East Uttar Pradesh, interior Madhya Maharashtra and North Interior Karnataka. These were above normal by 3-5°C over most places over Rajasthan; in many parts of Gujarat Region; in some places over Jammu division, Himachal Pradesh, Punjab and Saurashtra & Kutch; in isolated pockets of Haryana and West Madhya Pradesh.
- ❖ Gradual rise by about 2-3°C in maximum temperatures very likely over many parts of Central India and Maharashtra during next 4-5 days.
- ❖ Gradual rise by about 3-4°C in maximum temperatures very likely over many parts of Northwest India during next 4-5 days.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

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

- ❖ **Heat wave conditions** very likely in isolated pockets of Jammu division, Himachal Pradesh, Gujarat state, northeast Madhya Pradesh during 23rd-26th; West Madhya Pradesh, Delhi on 23rd; Vidarbha during 23rd-26th; East Uttar Pradesh during 24th-26th and north Madhya Maharashtra during 23rd-25th May, 2024.
- ❖ **Heat wave to severe heat wave conditions very likely in most parts of West Rajasthan; in many/some pockets over Punjab, Haryana-Chandigarh, East Rajasthan and West Uttar Pradesh during 23rd to 26th; in isolated pockets of northwest Madhya Pradesh & Delhi during 24th-26th May, 2024.**
- ❖ **Hot and humid weather** very likely to prevail over Assam during 23rd-24th May, 2024.
- ❖ **Warm night conditions** very likely to prevail over West Uttar Pradesh, Rajasthan during 23rd-26th and Punjab & Haryana-Chandigarh-Delhi during 23rd-25th 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 Andaman & Nicobar Islands and Lakshadweep; **at many places** over Kerala & Mahe; **at a few places** over West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal and **at isolated places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Uttarakhand, Jharkhand, East Madhya Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Rayalaseema.
- ❖ **Heavy rainfall** observed (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall** observed at isolated places over Andaman & Nicobar Islands; **Heavy rainfall** at isolated places over Gangetic West Bengal.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Andaman & Nicobar Islands:** Port Blair-14, Nancowry, Hut Bay, Long Island & Mayabandar-1 each; **Gangetic West Bengal:** Kolkata (Alipur)-7, Kolkata (Salt lake) & Uluberia-2 each, Purulia & Bagati-1 each; **Tamil Nadu:** Valprai-4, Kodaikanal-2, Kanyakumari-1; **Jharkhand:** Jamshedpur-3; **Kerala:** Karipur-4, Alapuzha & Kochi-3 each, Kottayam-2, Thiruvananthapuram, Thrissur & Punalur-1 each; **Meghalaya:** Shillong-1; **Sub-Himalayan West Bengal & Sikkim:** Kalimpong-3, Bagdogra-2, Darjeeling & Gangtok-1 each; **East Madhya Pradesh:** Malanjkhanda-1.
- ❖ **Maximum wind speed reported** (from 0830 hours IST to 1730 hours IST of yesterday) (in knots): **East Madhya Pradesh:** Sagar-26, Chhindwara-30, Seoni-27, Katni-25, Mandla-21; **Gujarat:** Jamnagar-23, Kutch-21; **Maharashtra:** Ratnagiri-24, Pune-21, Satara-24, Kolhapur-25; **Odisha:** Bhadrak-23; **Kerala:** Wayanad-24, Kasargod-22; **Tamil Nadu:** Thoothukudi-30; **Chhattisgarh:** Korba-30, Mungeli-28, Raipur-22; **Jharkhand:** Bokaro-28; **Gangetic West Bengal:** Nadia-24, Hooghly-23, Howrah-23, Durgapur-21; **Rajasthan:** Sikar-24, Jaipur-24, Sirohi-25; **Uttarakhand:** Paudi Garhwal-23, Chamoli-22, Nainital-22; **Himachal Pradesh:** Kinnaur-30, Solan-22.
- ❖ **Yesterday, Warm night conditions** observed in some parts of Rajasthan.
- ❖ Yesterday, **heat wave to severe heat wave conditions** prevailed over many parts of West Rajasthan; over some parts of East Rajasthan. **Heat wave conditions** prevailed in isolated pockets of Haryana, Gujarat and West 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 22-05-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Bihar, Assam & Meghalaya; at isolated pockets over Sub-Himalayan West Bengal & Sikkim, West Rajasthan, Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at most places over Andaman & Nicobar Islands, Konkan & Goa; at a few places over Gangetic West Bengal, Odisha, Jharkhand, Gujarat state, South Interior Karnataka, West Rajasthan; at isolated pockets over Madhya Maharashtra, North Interior Karnataka, East Rajasthan, East Uttar Pradesh. These were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Telangana; **below normal (-1.6°C to -3.0°C)** at many places over Madhya Pradesh; at a few places over Vidarbha, Marathwada; at isolated places over Haryana-Chandigarh-Delhi, West Uttar Pradesh, Uttarakhand, Himachal Pradesh and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 19.0°C is reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 22-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Assam & Meghalaya, Arunachal Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab; at isolated places over Himachal Pradesh, Haryana-Chandigarh-Delhi, Gujarat state, Rajasthan; **above normal (1.6°C to 3.0°C)** at many places over West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa; at a few places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over Uttarakhand. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at most places over Rayalaseema; at many places over Bihar, Telangana; at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Odisha, Interior Karnataka, Kerala & Mahe and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 48.0°C was reported at **Barmer (Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon continues to pass through 05°N/60°E, 06°N/70°E, 6.5°N/75°E, 7.5°N/80°E, 10°N/85°E, Mayabandar and 16°N/100°E.
- ❖ Yesterday, Southwest Monsoon had advanced into some parts of South Arabian Sea, some more parts of Maldives, Comorin area, South Bay of Bengal, Andaman & Nicobar Islands and Andaman Sea.
- ❖ Conditions are favorable for advance of Southwest Monsoon over some more parts of south Bay of Bengal, remaining parts of Andaman & Nicobar Islands, Andaman Sea and some parts of eastcentral Bay of Bengal during next 2 days.
- ❖ The **Low Pressure Area** over Southwest & adjoining Westcentral Bay of Bengal has moved northeastwards and lay over Westcentral & adjoining Southwest Bay of Bengal with the associated cyclonic circulation extending upto 7.6 km above mean sea level. It is very likely to move northeastwards and concentrate into a Depression over central parts of Bay of Bengal by morning of 24th May, 2024. It is likely to move northeastwards, intensify further and reach northeast & adjoining northwest Bay of Bengal by 25th evening.
- ❖ The **Western Disturbance** as a cyclonic circulation over southeast Iran & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over northwest Rajasthan & neighbourhood now lies over southeast Rajasthan and extends upto 1.5 km above mean sea level.
- ❖ The trough now runs from above cyclonic circulation over southeast Rajasthan to Jharkhand across central parts of Madhya Pradesh at 0.9 km above mean sea level.
- ❖ The north-south trough now runs from cyclonic circulation over southeast Rajasthan to western parts of Vidarbha across southwest Madhya Pradesh at 1.5 km above mean sea level.
- ❖ The cyclonic circulation over Bangladesh & adjoining West Bengal between 3.1 & 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over south Kerala & neighbourhood extending upto 5.8 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 30th 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 Central India and Maharashtra during next 5 days.
- ❖ No significant change in maximum temperatures very likely over Northwest India during next 24 hours and gradual rise by 3-4°C thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 30th May-01st June, 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	23-May	24-May	25-May	26-May	27-May	28-May	29-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	SCT	SCT	SCT	FWS	WS	WS	WS
3	ASSAM & MEGHALAYA	SCT	SCT	FWS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	FWS	WS	WS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	ISOL	ISOL	SCT	FWS	WS	WS
6	GANGETIC WEST BENGAL	ISOL	ISOL	FWS	FWS	FWS	SCT	SCT
7	ODISHA	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	SCT	ISOL	ISOL	ISOL	SCT	SCT	SCT
9	BIHAR	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
10	EAST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
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	DRY	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	DRY	DRY	DRY	DRY	DRY	DRY
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	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	SCT	SCT	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	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	FWS	FWS	FWS	FWS	SCT	SCT
33	NORTH INTERIOR KARNATAKA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	SCT	SCT	ISOL	ISOL	ISOL
35	KERALA & MAHE	WS	WS	WS	FWS	FWS	FWS	WS
36	LAKSHADWEEP	WS	WS	FWS	FWS	FWS	FWS	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

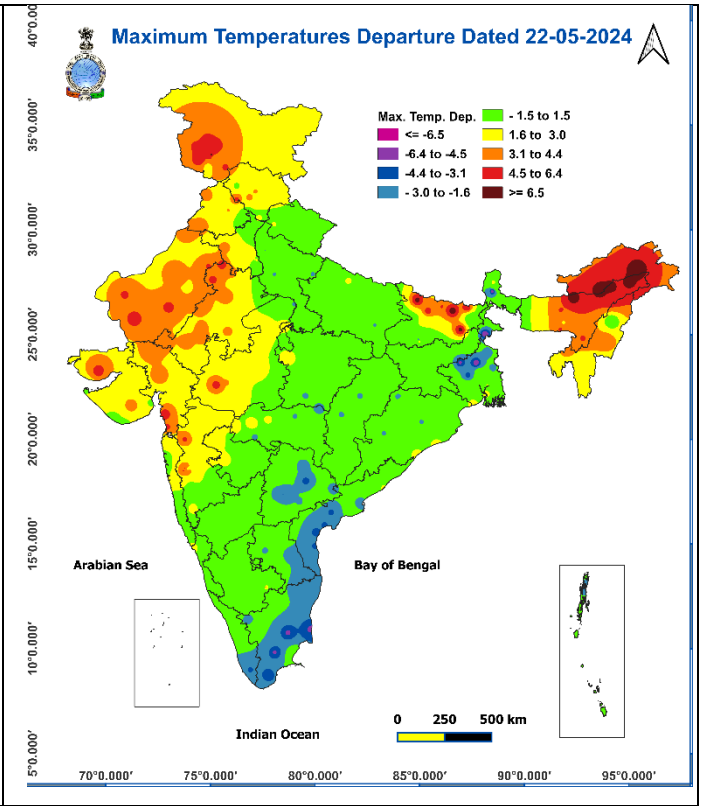
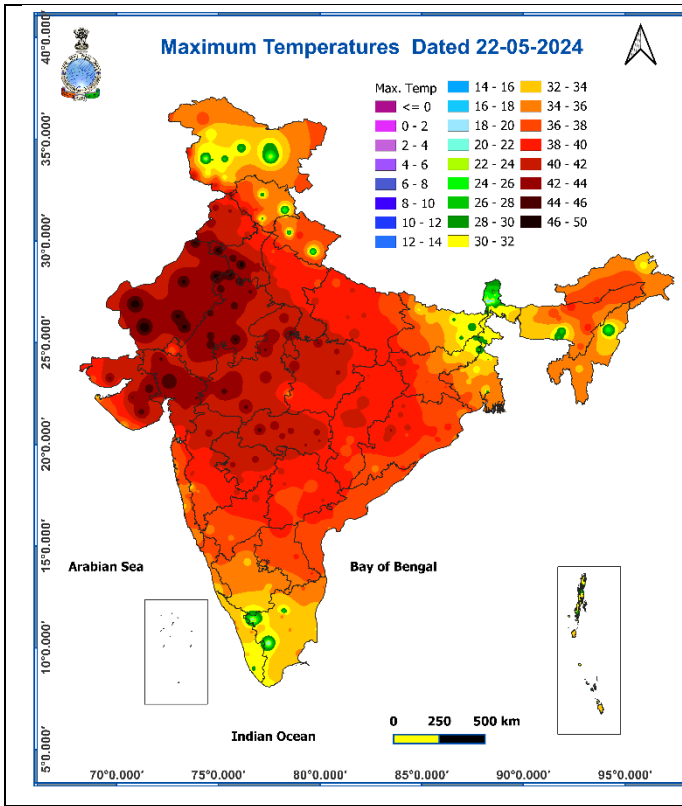


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

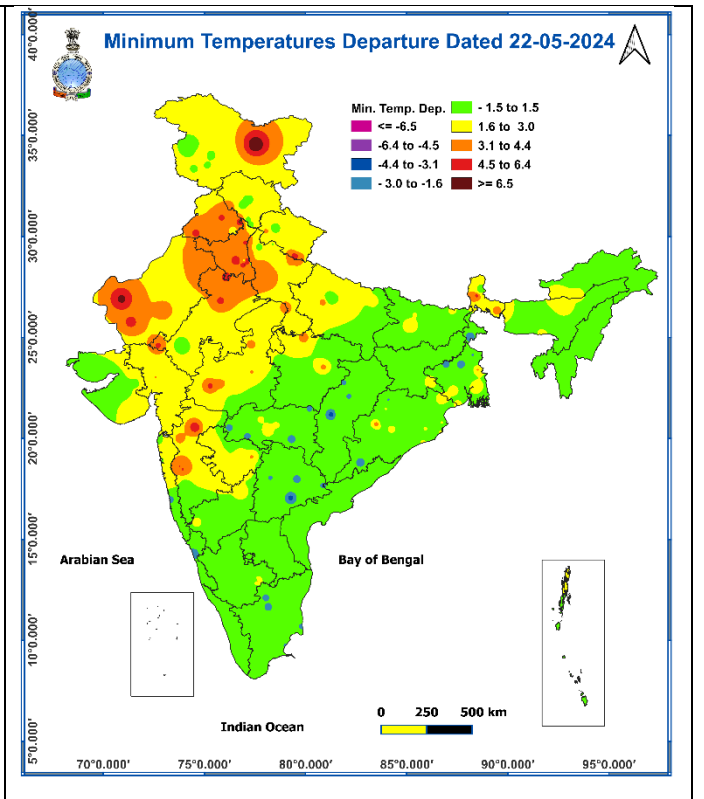
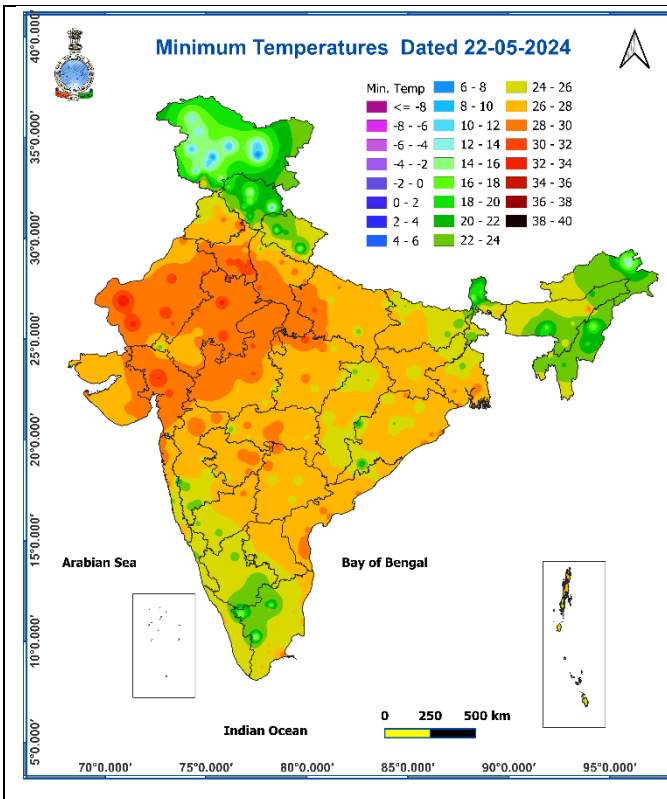
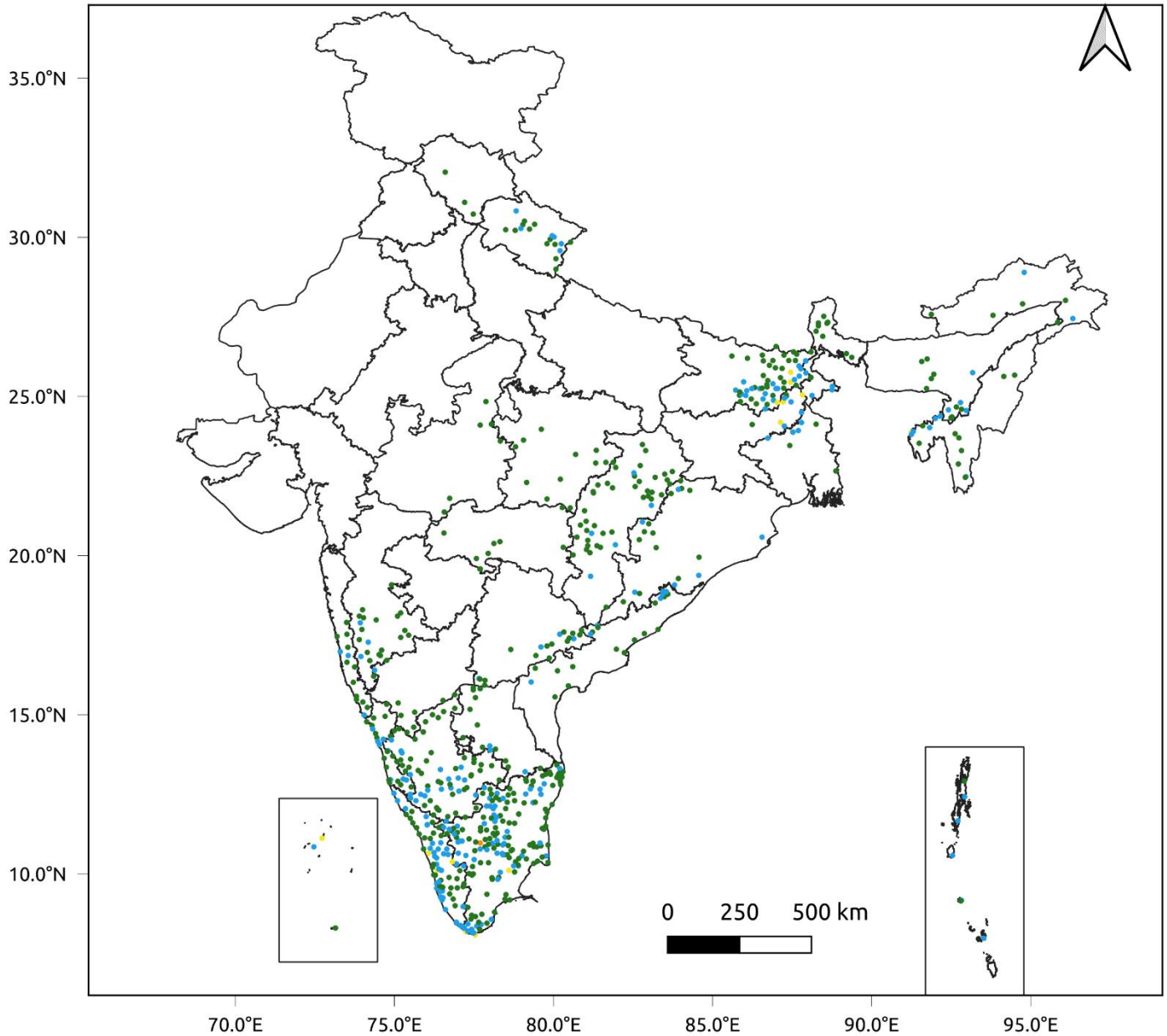


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



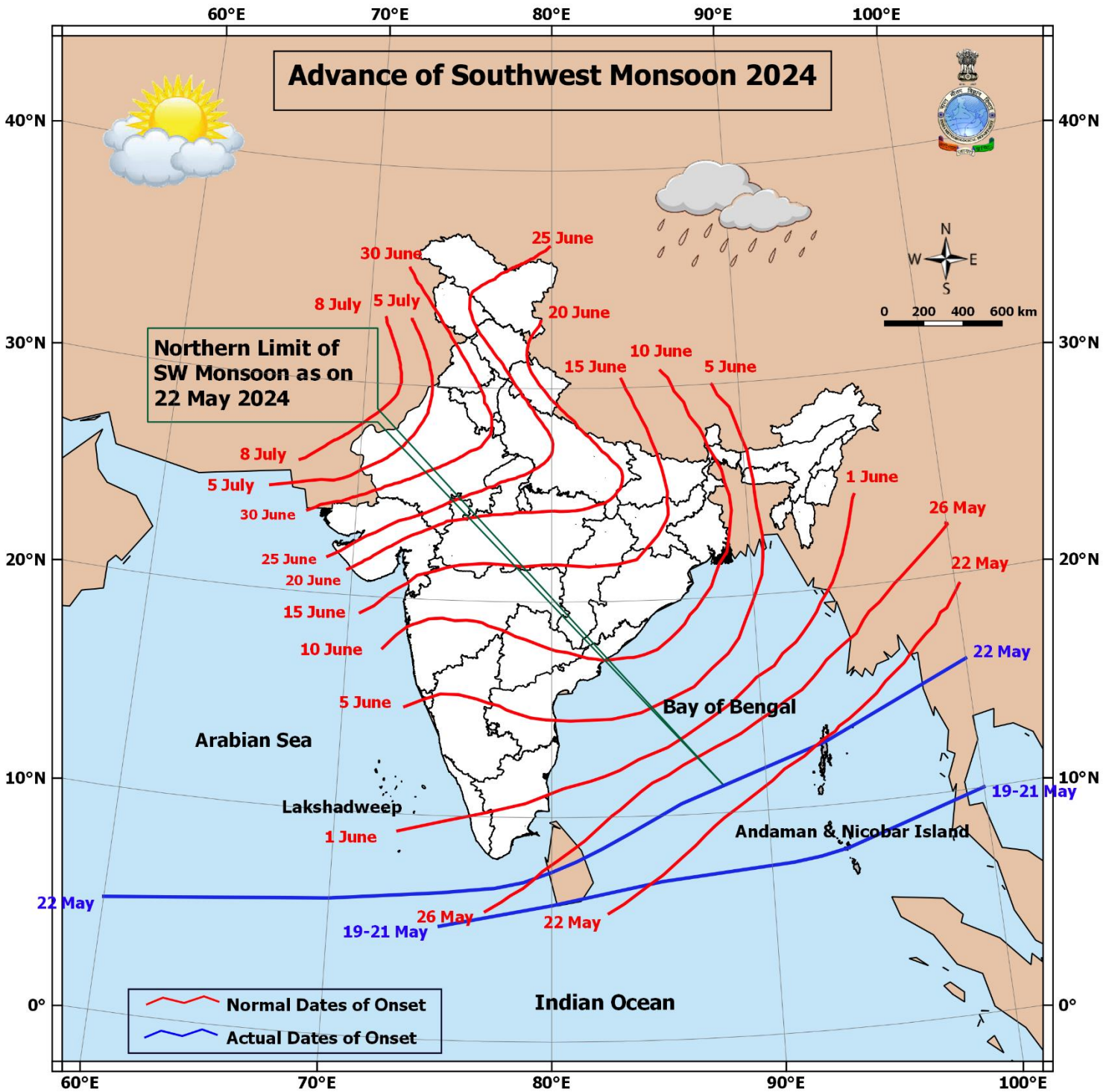
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 21-5-2024 to 0830 IST of 22-5-2024



Legends

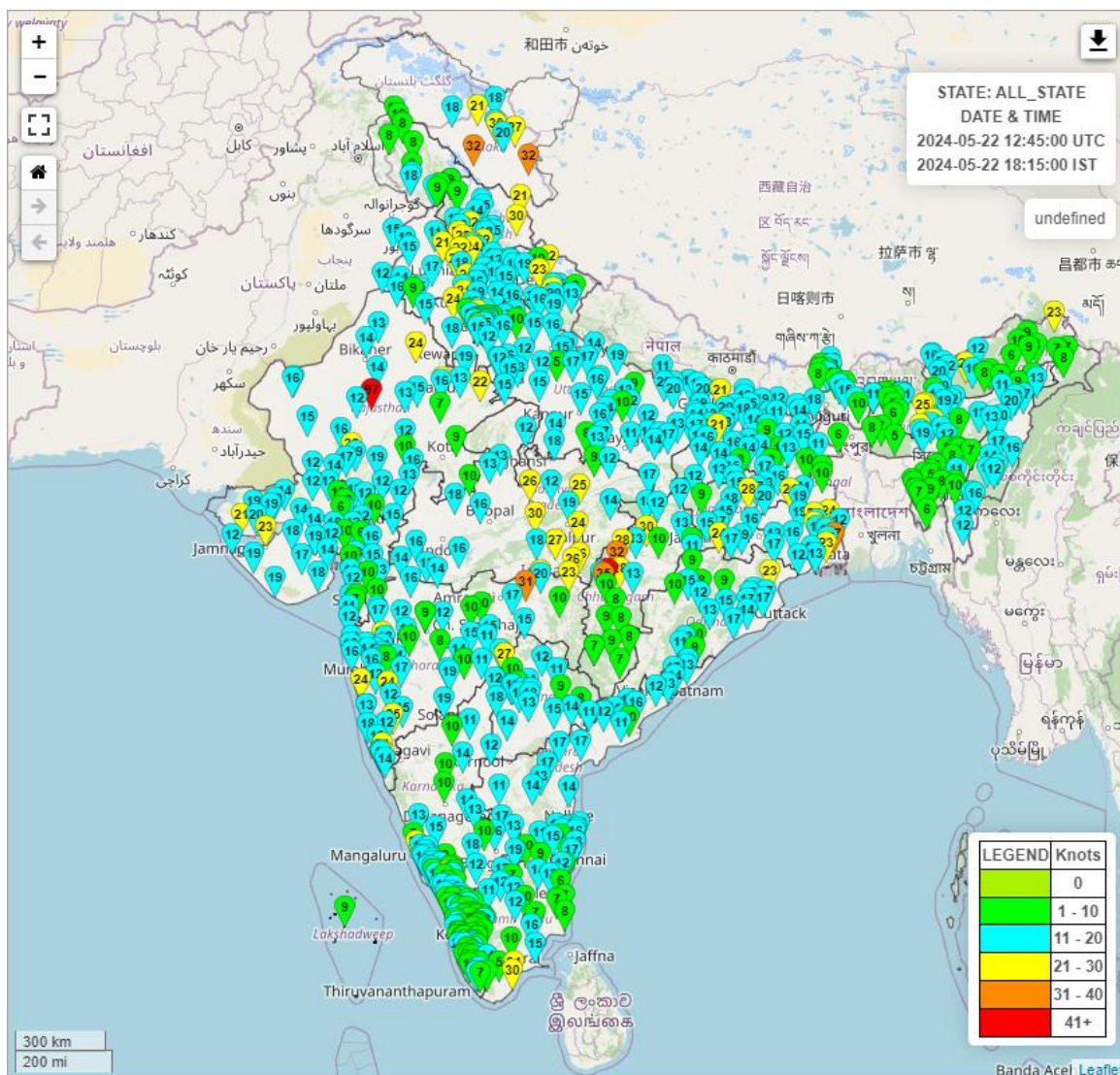
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



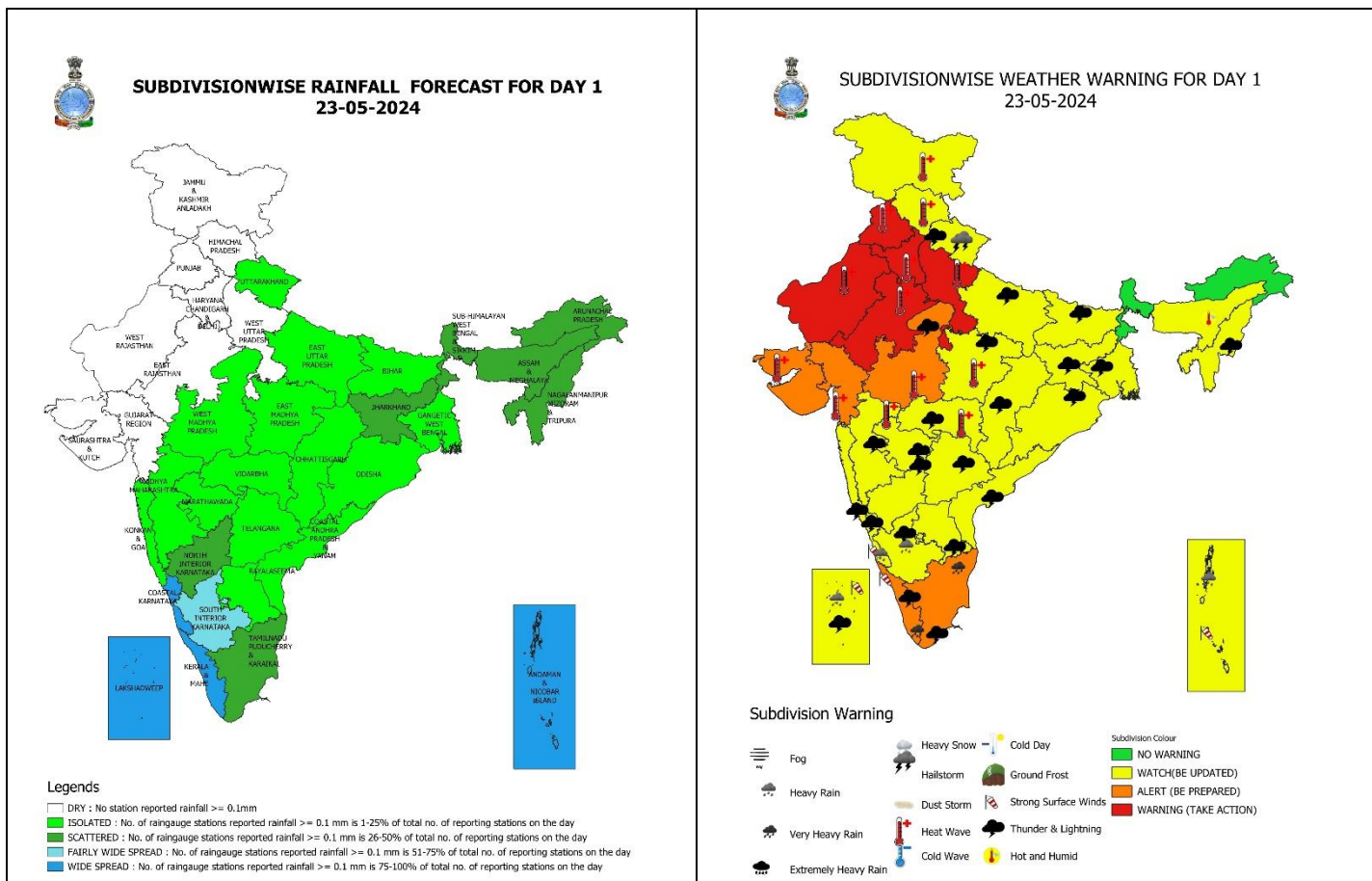
* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599
(Service to the Nation since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

Fig. 7: Gusty winds reported over the country (in knots) from 0830 hrs IST of 22.05.2024 to 1815 hrs IST of 22.05.2024



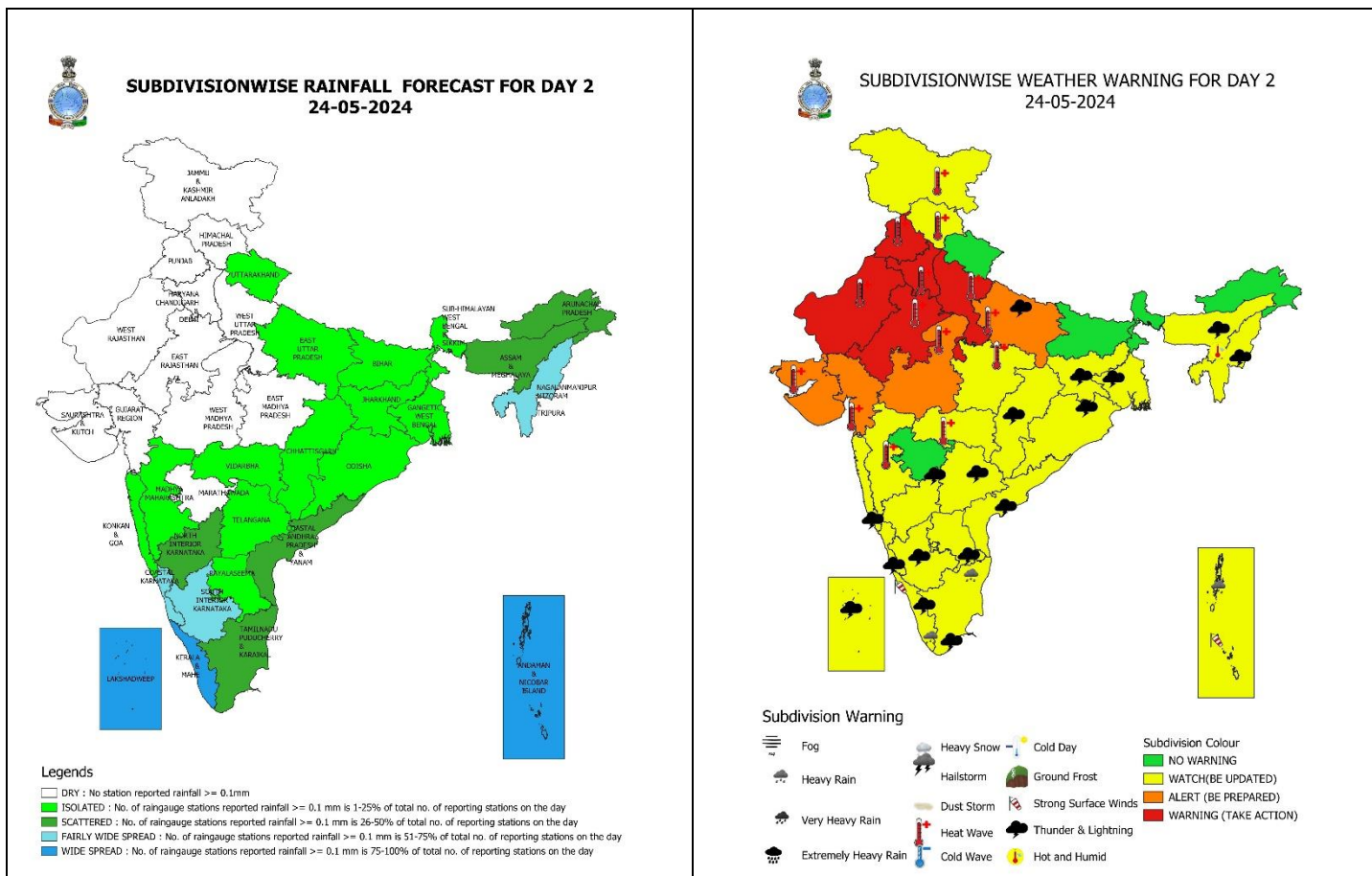
1 Knot = 1.852 kmph

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



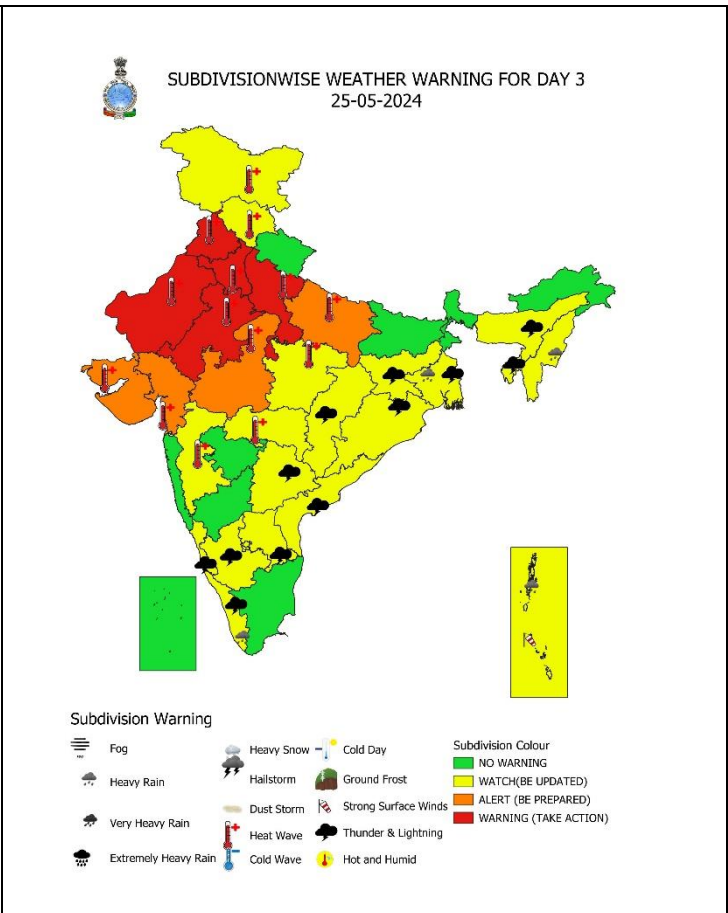
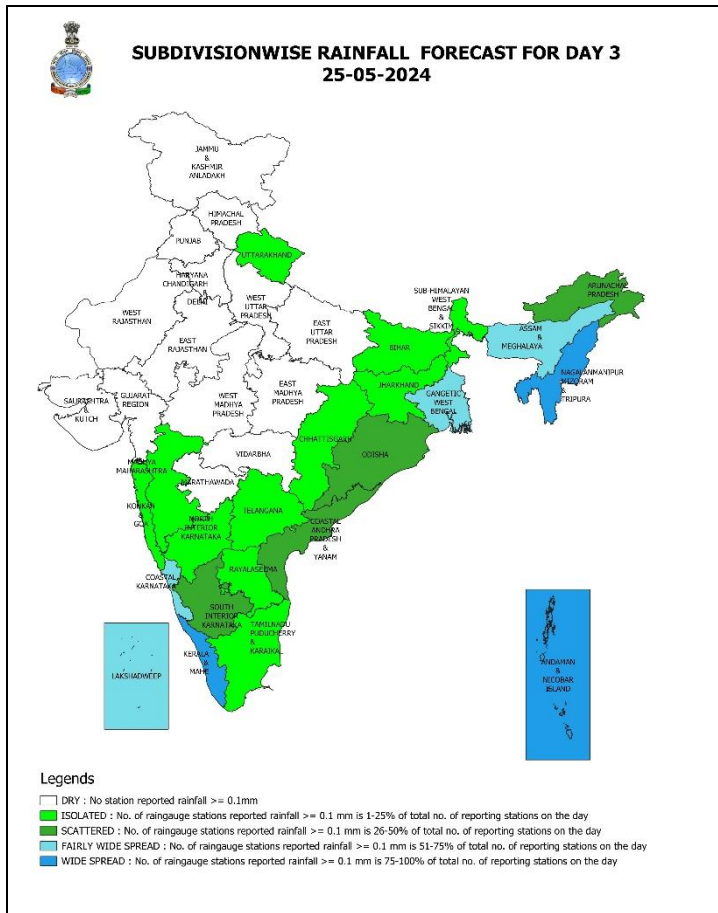
23 May (Day 1):

- ❖ **Heavy to very Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **Heavy rainfall** at isolated places Andaman & Nicobar Islands, Lakshadweep, Coastal Karnataka and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & hailstorm** very likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Madhya Pradesh, Chhattisgarh, Jharkhand, Konkan & Goa; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over East Uttar Pradesh, Vidarbha, Bihar, Madhya Maharashtra and Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; **with lightning** at isolated places over Himachal Pradesh, Gangetic West Bengal, Odisha, 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 East Rajasthan; in some parts of Punjab, Haryana-Chandigarh, West Uttar Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, Delhi, north Madhya Pradesh, Madhya Maharashtra and Gujarat state.
- ❖ **Severe warm night conditions** very likely to prevail in isolated pockets over West Rajasthan; **Warm night conditions** prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and East Rajasthan.
- ❖ **Hot and humid weather** very likely to prevail over Assam and Odisha.
- ❖ **Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph** very likely to prevail along and off Goa coast, Karnataka, Kerala, Sri Lanka coasts, Lakshadweep, Maldives areas, Comorin Area, Gulf of Mannar, south, central & north Bay of Bengal, Andaman Sea; **Squally wind with wind speed 50 kmph to 60 kmph gusting to 70 kmph** likely to prevail over eastcentral & southeast Bay of Bengal. Somalia coast. Fishermen are advised not to venture into these areas.



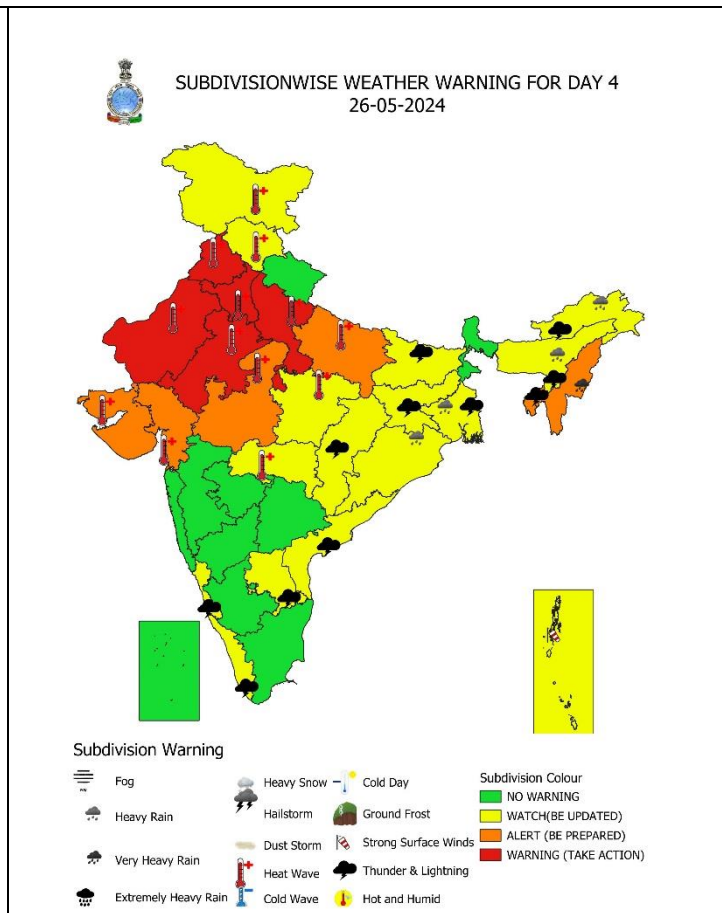
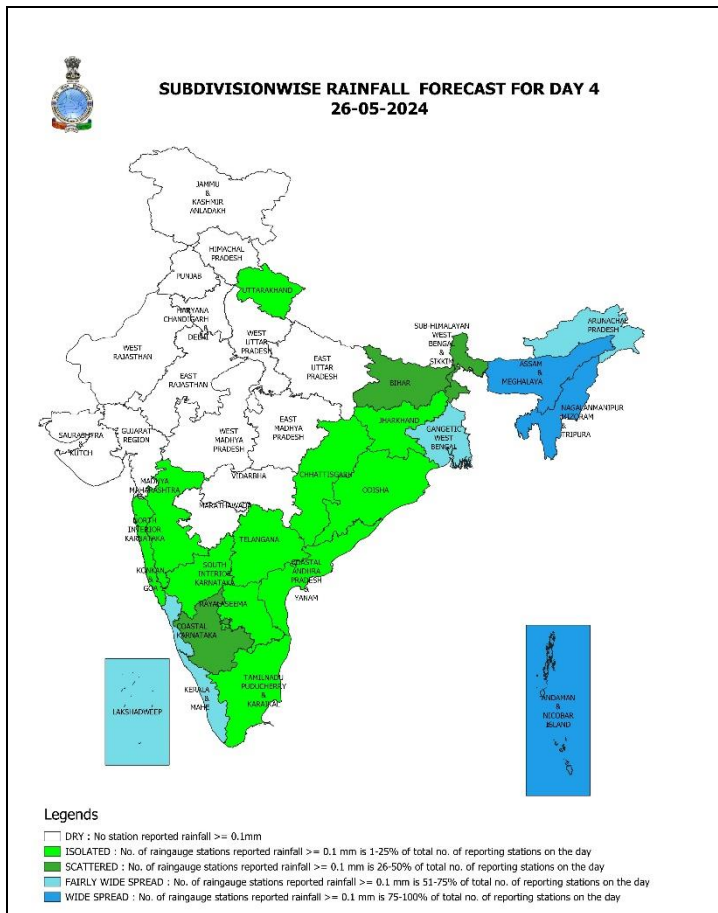
24 May (Day 2):

- ❖ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Islands and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Chhattisgarh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over East Uttar Pradesh, Vidarbha, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Interior Karnataka; **with lightning** at isolated places over Odisha, Gangetic West Bengal, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, 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 East Rajasthan, Punjab, Haryana-Chandigarh; in some parts of West Uttar Pradesh; in isolated pockets over Delhi and northwest Madhya Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, East Uttar Pradesh, northeast Madhya Pradesh, Madhya Maharashtra and Gujarat state.
- ❖ **Severe warm night conditions** very likely to prevail in isolated pockets over West Rajasthan; **Warm night conditions** prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and East Rajasthan.
- ❖ **Hot and humid weather** very likely to prevail over Assam.
- ❖ **Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph** very likely to prevail along and off south Karnataka, Kerala, & Sri Lanka coasts Lakshadweep, Maldives areas & adjoining southeast Arabian sea, Comorin area, Gulf of Mannar, South Bay of Bengal, Eastcentral & adjoining Westcentral Bay of Bengal, northeast Bay of Bengal, Andaman sea; **with wind speed 50 kmph to 60 kmph gusting to 70 kmph** to prevail over eastcentral Bay of Bengal; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail along and off Somalia coast. Fishermen are advised not to venture into these areas.



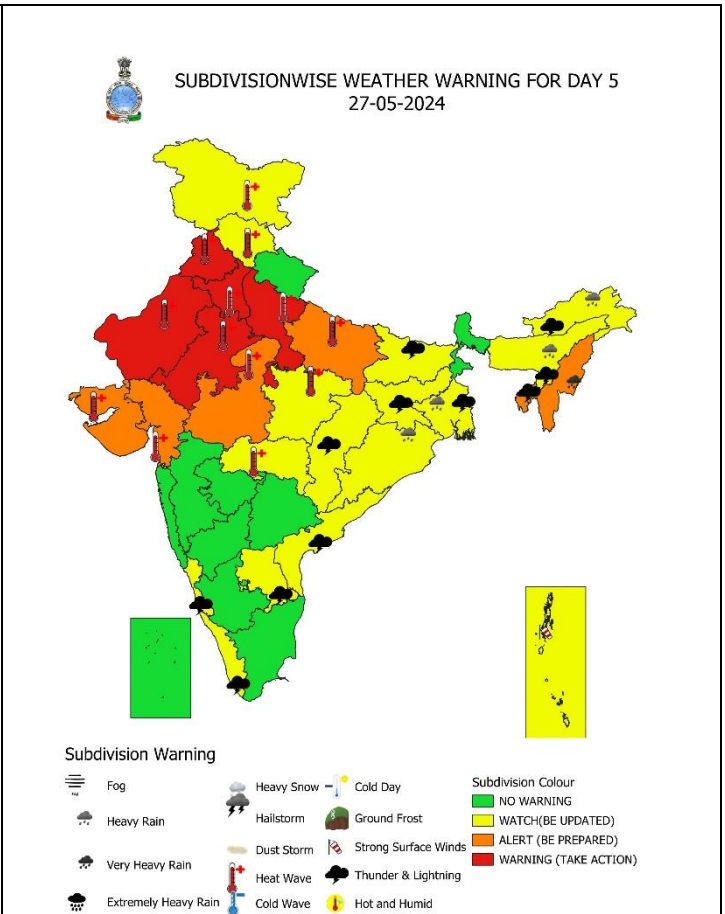
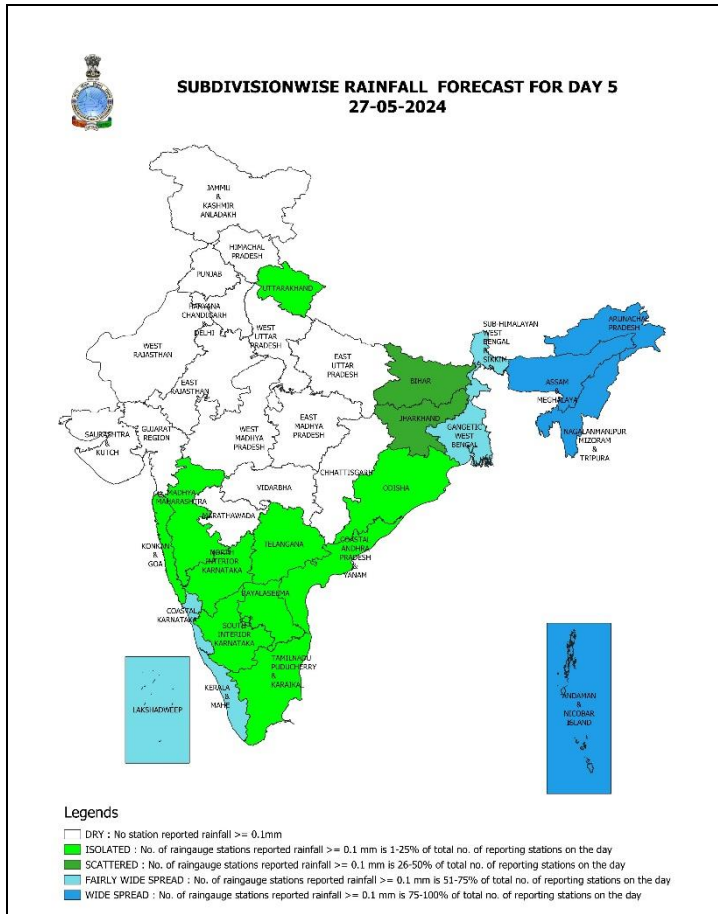
25 May (Day 3):

- ❖ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Chhattisgarh, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, South Interior Karnataka; **with lightning** at isolated places over Assam & Meghalaya, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in most parts over West Rajasthan; in many parts over East Rajasthan, Punjab, Haryana-Chandigarh; in some parts of West Uttar Pradesh; in isolated pockets over Delhi and northwest Madhya Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, East Uttar Pradesh, northeast Madhya Pradesh, Madhya Maharashtra and Gujarat state.
- ❖ **Severe warm night conditions** likely to prevail in isolated pockets over West Rajasthan; **Warm night conditions** prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and East 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 Bay of Bengal, Eastcentral & adjoining Westcentral Bay of Bengal, northeast & adjoining northwest Bay of Bengal, Andaman Sea. ; **with wind speed 50 kmph to 60 kmph gusting to 70 kmph** to prevail over Eastcentral Bay of Bengal; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail along and off Somalia coast. Fishermen are advised not to venture into these areas.



26 May (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Nagaland, Manipur, Mizoram, Tripura; **Heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha and Gangetic West Bengal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Jharkhand, Chhattisgarh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** at isolated places over Arunachal Pradesh, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in most parts over West Rajasthan; in many parts over East Rajasthan, Punjab, Haryana-Chandigarh; in some parts of West Uttar Pradesh; in isolated pockets over Delhi and northwest Madhya Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, East Uttar Pradesh, northeast Madhya Pradesh and Gujarat state.
- ❖ **Severe warm night conditions** likely to prevail in isolated pockets over West Rajasthan; **Warm night conditions** prevail in isolated pockets over Uttar Pradesh and East 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 Bay of Bengal, Eastcentral & adjoining Westcentral Bay of Bengal, northeast & adjoining northwest Bay of Bengal, along & off West Bengal, Bangladesh, Myanmar coast, Andaman Sea; **with wind speed 50 kmph to 60 kmph gusting to 70 kmph** to prevail over Eastcentral Bay of Bengal; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast. Fishermen are advised not to venture into these areas.

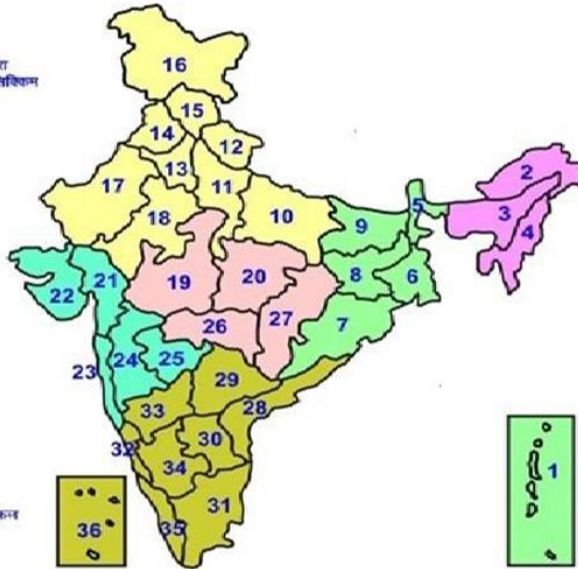


27 May (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Nagaland, Manipur, Mizoram, Tripura; **Heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha and Gangetic West Bengal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Jharkhand, Chhattisgarh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** at isolated places over Arunachal Pradesh, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in most parts over West Rajasthan; in many parts over East Rajasthan, Punjab, Haryana-Chandigarh; in some parts of West Uttar Pradesh; in isolated pockets over Delhi and northwest Madhya Pradesh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, East Uttar Pradesh, northeast Madhya Pradesh and Gujarat state.
- ❖ **Severe warm night conditions** likely to prevail in isolated pockets over West Rajasthan; **Warm night conditions** prevail in isolated pockets over Uttar Pradesh and East 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 Bay of Bengal, Eastcentral & adjoining Westcentral Bay of Bengal, northeast & adjoining northwest Bay of Bengal, along & off West Bengal, Bangladesh, Myanmar coast, Andaman Sea; **with wind speed 50 kmph to 60 kmph gusting to 70 kmph** to prevail over Eastcentral Bay of Bengal; **with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast. Fishermen are advised not to venture into these areas

LEGENDS

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



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

SPATIAL DISTRIBUTION (% of Stations reporting)

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

WARNING

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

Probabilistic Forecast

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

LEGENDS

WARNING

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

Probabilistic Forecast

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



Rain/ Snow *

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



Heat Wave

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.



Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50- 200 metres
Very Dense Fog: when the visibility < 50 metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

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

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)