

Friday, May 24, 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/60°E, 06°N/70°E, 6.5°N/75°E, 7.5°N/80°E, 10°N/85°E, Maya Bandar and 16°N/100°E.
- ❖ **Conditions are favorable for further 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 24 hours.**
- ❖ A **Low Pressure Area** lies over Southeast Arabian Sea off Kerala coast with the associated cyclonic circulation extending upto 7.6 km above mean sea level. Under its influence:
  - Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** likely over 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, Rayalaseema Telangana, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal during next 5 days.
  - ✓ **Isolated heavy rainfall very likely over Lakshadweep and Tamil Nadu, Puducherry & Karaikal on 24<sup>th</sup>; Coastal Andhra Pradesh & Yanam and Kerala on 25<sup>th</sup> May, 2024.**
  - ✓ **Isolated heavy to very heavy rainfall very likely over Kerala & Mahe on 24<sup>th</sup> May, 2024.**
  - Widespread light to moderate rainfall very likely over Andaman & Nicobar Islands during next 7 days with **isolated heavy rainfall very likely over Andaman & Nicobar Islands on 24<sup>rd</sup> & 25<sup>th</sup> May, 2024.**
  - Isolated light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Konkan & Goa and Madhya Maharashtra during 24<sup>th</sup>-25<sup>th</sup> and Vidarbha on 24<sup>th</sup> May, 2024.
- ❖ A cyclonic circulation lies over west Bihar and a trough runs upto east Vidarbha 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 7 days. **Isolated heavy rainfall very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 26<sup>th</sup> & 27<sup>th</sup> with isolated very heavy rainfall on 27<sup>th</sup> May, 2024.**

#### Depression formed over central Bay of Bengal:

- ❖ The **well-marked low pressure area** over westcentral & adjoining south Bay of Bengal moved northeastwards during past 12 hours, concentrated into a **Depression** and lay centered at 0530 hrs IST of today, the 23<sup>rd</sup> May, 2024 over central Bay of Bengal near latitude 15.0°N and longitude 88.4°E, about 800 km south-southwest of Khepupara (Bangladesh) and 81.0 km south of Canning (West Bengal). It is very likely to continue to move northeastwards and intensify further into a **cyclonic storm** over eastcentral Bay of Bengal by 25<sup>th</sup> May morning. Subsequently, it would move nearly northwards, intensify into a **severe cyclonic storm** by 25<sup>th</sup> evening. Continuing to move nearly northward, it is very likely to cross Bangladesh and adjoining West Bengal coasts between Sagar Island and Khepupara around 26<sup>th</sup> May midnight as a **severe cyclonic storm**.
- Heavy Rainfall Warning:**
- a) Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is likely over coastal districts of West Bengal and adjoining districts of North Odisha on 26<sup>th</sup> and 27<sup>th</sup> May.
  - b) Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places likely over Mizoram, Tripura and South Manipur on 26<sup>th</sup> and 27<sup>th</sup> May.
- Wind Warning:** It would become 50-60 kmph gusting to 70 kmph over central Bay of Bengal on 24<sup>th</sup> May. It would extend to adjoining areas of North Bay of Bengal with gale wind speed reaching 60-70 kmph gusting to 80 kmph from 25<sup>th</sup> May morning. It would further increase becoming 100-110 kmph gusting to 120 kmph over north Bay of Bengal and 70-80 kmph gusting to 90 kmph over adjoining central Bay of Bengal from 26<sup>th</sup> morning for subsequent 24 hours. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely along & off Bangladesh, West Bengal and adjoining North Odisha coasts from 25<sup>th</sup> May evening. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Andaman Islands and North Andaman Sea on 24<sup>th</sup> May.
- Sea condition:**  
Sea condition is likely to be:
- ❖ Rough to very rough over North Bay of Bengal from 24<sup>th</sup> May evening. It would become high over central Bay of Bengal from 25<sup>th</sup> May morning and High to Very High over North Bay of Bengal from 25<sup>th</sup> evening till 27<sup>th</sup> May morning.
  - ❖ Rough to very rough along & off Bangladesh, West Bengal and adjoining North Odisha coasts from 25<sup>th</sup> May evening and high along & off Bangladesh and West Bengal coasts from 26<sup>th</sup> noon onwards till 27<sup>th</sup> May morning.
  - ❖ Rough to very rough over Andaman Islands and North Andaman Sea on 24<sup>th</sup> May.
- Fishermen Warning:** Fishermen are advised not to venture into south Bay of Bengal till 24<sup>th</sup> May, central Bay of Bengal till 26<sup>th</sup> May and North Bay of Bengal from 24<sup>th</sup> May onwards till morning of 27<sup>th</sup> May. Fishermen out at sea are advised to return to the coast.

#### Maximum temperature observation:

- ❖ **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 West Madhya Pradesh & Gujarat state; in isolated pockets over southwest Uttar Pradesh, Vidarbha; in the range of 40-44°C in many places over East Madhya Pradesh, Marathwada; in some parts of Punjab, Haryana-Chandigarh-Delhi, Chhattisgarh, Odisha; in isolated pockets of north Madhya Maharashtra. These were above normal by 2-4°C over most parts of Rajasthan; in many parts of West Madhya Pradesh and Gujarat state; in isolated pockets of Jammu division, south Haryana, Vidarbha, Marathwada and north Madhya Maharashtra.

#### 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, Madhya Pradesh and Vidarbha during 24<sup>th</sup> -28<sup>th</sup>; Gujarat state during 24<sup>th</sup> -26<sup>th</sup>; West Uttar Pradesh and Madhya Maharashtra during 24<sup>th</sup> -25<sup>th</sup>; East Uttar Pradesh during 25<sup>th</sup>-27<sup>th</sup> May, 2024.
- ❖ **Heat wave to severe heat wave conditions very likely in many/most parts of Rajasthan during 24<sup>th</sup> -28<sup>th</sup>; in some/many parts of Punjab, Haryana-Chandigarh during 24<sup>th</sup> -27<sup>th</sup>; West Uttar Pradesh during 26<sup>th</sup> & 27<sup>th</sup>; in isolated pockets of Delhi during 24<sup>th</sup>-27<sup>th</sup> May, 2024.**

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

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## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Kerala & Mahe and Lakshadweep; **at many places** over Andaman & Nicobar Islands; **at a few places** over Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka and **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Himachal Pradesh, Gangetic West Bengal, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Konkan & Goa, Chhattisgarh, Rayalaseema and North Interior Karnataka.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Kerala:** Karipur & Kochi-4 each, Punalur, Thiruvananthapuram & Kozhikode-1 each; **Andaman & Nicobar Islands:** Mayabandar-2, Hut Bay, Port Blair & Long Island-1 each; **Lakshadweep:** Minicoy-2, Agathi-1; **Meghalaya:** Shillong-2; **Tamil Nadu:** Uthagamandalam, Coonoor & Kanyakumari-1 each; **Himachal Pradesh:** Shimla & Solan-1 each.
- ❖ **Warm night conditions** observed in some parts of Punjab, Haryana, West Uttar Pradesh and West Rajasthan.
- ❖ **Maximum wind speed reported** (from 0830 hours IST to 1730 hours IST of yesterday) (in knots): **Chhattisgarh:** Dantewada-34, Surajpur-23, Mungeli-22; **Vidarbha:** Yeotmal-31; **Gangetic West Bengal:** Kharagpur & Raidighi-27, Nimpith-24, Canning-21; **Coastal Andhra Pradesh & Yanam:** Darsi-28; **Kerala & Mahe:** Vellayani-21; **Gujarat state:** Rajkot-25, Jamnagar-24, Arnej-22.
- ❖ Yesterday, **heat wave to severe heat wave conditions** prevailed over many parts of West Rajasthan and in isolated pockets of East Rajasthan. **Heat wave conditions** prevailed in some parts of Gujarat and in isolated pockets of West Madhya Pradesh. **Heat wave conditions** have been prevailing over Gujarat region since 15<sup>th</sup>; Saurashtra & Kutch since 16<sup>th</sup> and over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan since 17<sup>th</sup> May, 2024.
- ❖ **Minimum Temperature Departures (as on 23-05-2024):** Minimum temperatures were **markedly above normal (5.1°C or more)** at a few places over Punjab; at isolated places over Haryana-Chandigarh-Delhi and Rajasthan; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Himachal Pradesh and Madhya Maharashtra; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Arunachal Pradesh and Marathwada; **above normal (1.6°C to 3.0°C)** at many places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Gujarat Region; at a few places over Nagaland, Manipur, Mizoram & Tripura, Odisha and Saurashtra & Kutch; at isolated places over East Uttar Pradesh, Bihar, Konkan & Goa and Interior Karnataka. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Vidarbha and Telangana; **below normal (-1.6°C to -3.0°C)** at a few places over Chhattisgarh; at isolated places over Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of **18.5°C** was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 23-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Assam & Meghalaya; at isolated places over Jammu Division, West Rajasthan, West Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim; **appreciably above normal (3.1°C to 5.0°C)** at a few places over East Rajasthan and Gujarat Region; at isolated places over Vidarbha, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at a few places over Punjab, Himachal Pradesh, Haryana-Chandigarh-Delhi and at isolated places over East Madhya Pradesh, Odisha, Madhya Maharashtra, Marathwada. These were **markedly below normal (-5.1°C or less)** at isolated places over East Uttar Pradesh, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Lakshadweep; at a few places over Andaman & Nicobar Islands; at isolated places over Bihar, Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at isolated places West Uttar Pradesh, Telangana, Rayalaseema and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of **48.8°C** was reported at **Barmer (Rajasthan)** over the country.

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## 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.
- ❖ 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 24 hours.
- ❖ The **well-marked low pressure area** over westcentral & adjoining south Bay of Bengal moved northeastwards during past 12 hours, concentrated into a **Depression** and lay centered at 0530 hrs IST of today, the 23rd May, 2024 over central Bay of Bengal near latitude 15.0°N and longitude 88.4°E, about 800 km south-southwest of Khepupara (Bangladesh) and 810 km south of Canning (West Bengal). It is very likely to continue to move northeastwards and intensify further into a **cyclonic storm** over eastcentral Bay of Bengal by 25th May morning. Subsequently, it would move nearly northwards, intensify into a **severe cyclonic storm** by 25th evening. Continuing to move nearly northward, it is very likely to cross Bangladesh and adjoining West Bengal coasts between Sagar Island and Khepupara around 26th May midnight as a **severe cyclonic storm**.
- ❖ The cyclonic circulation over southeast Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over southeast Rajasthan to Jharkhand now runs upto East Vidarbha across Madhya Pradesh at 0.9 km above mean sea level.
- ❖ The north-south trough from cyclonic circulation over southeast Rajasthan to Marathwada across southwest Madhya Pradesh & Madhya Maharashtra at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over west Bihar & neighbourhood between 3.1 & 5.8 km above mean sea level persists.
- ❖ The **Low Pressure Area** over Southeast Arabian Sea off Kerala coast with the associated cyclonic circulation extending upto 7.6 km above mean sea level persists.

## Weather Forecast for next 7 days (Upto 0830 hours IST of 31<sup>st</sup> May, 2024)

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

## Weather Outlook for subsequent 3 days (During 31<sup>st</sup> May-02<sup>nd</sup> 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

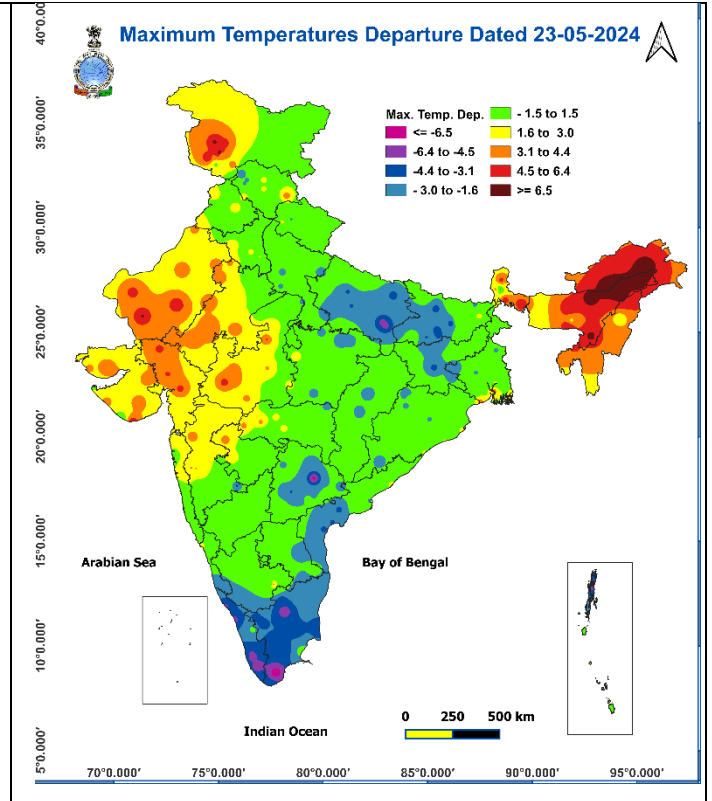
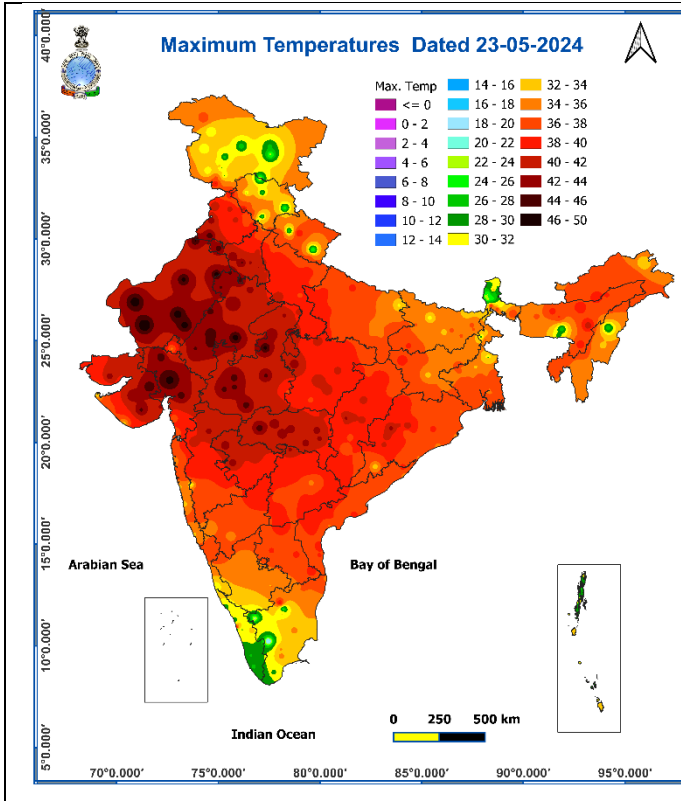
7 Days Rainfall Forecast								
S. No.	Subdivision	24-May	25-May	26-May	27-May	28-May	29-May	30-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	ISOL	ISOL	FWS	WS	WS	WS	WS
3	ASSAM & MEGHALAYA	ISOL	SCT	WS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	FWS	WS	WS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	SCT	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	ISOL	FWS	WS	WS	FWS	ISOL	ISOL
7	ODISHA	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	SCT	SCT	SCT	ISOL	ISOL
9	BIHAR	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
10	EAST UTTAR PRADESH	ISOL	DRY	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	ISOL	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	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAİKAL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	FWS	FWS	FWS	FWS	SCT	SCT	SCT
33	NORTH INTERIOR KARNATAKA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
35	KERALA & MAHE	WS	WS	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	WS	FWS	FWS	FWS	FWS	FWS	FWS

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

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**Fig. 1: Maximum Temperatures**

**Fig. 2: Departure of Maximum Temperatures**



**Fig. 3: Minimum Temperatures**

**Fig. 4: Departure of Minimum Temperatures**

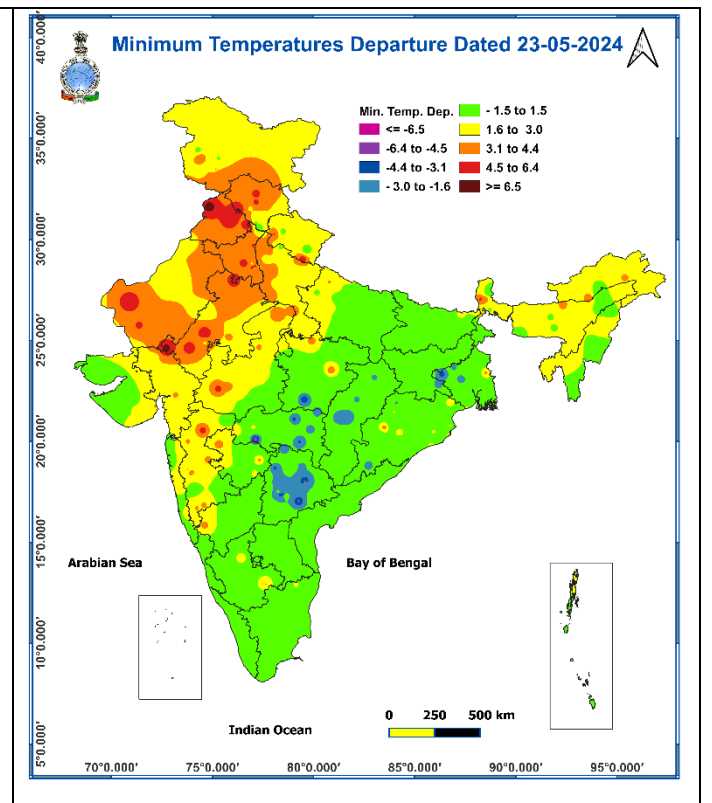
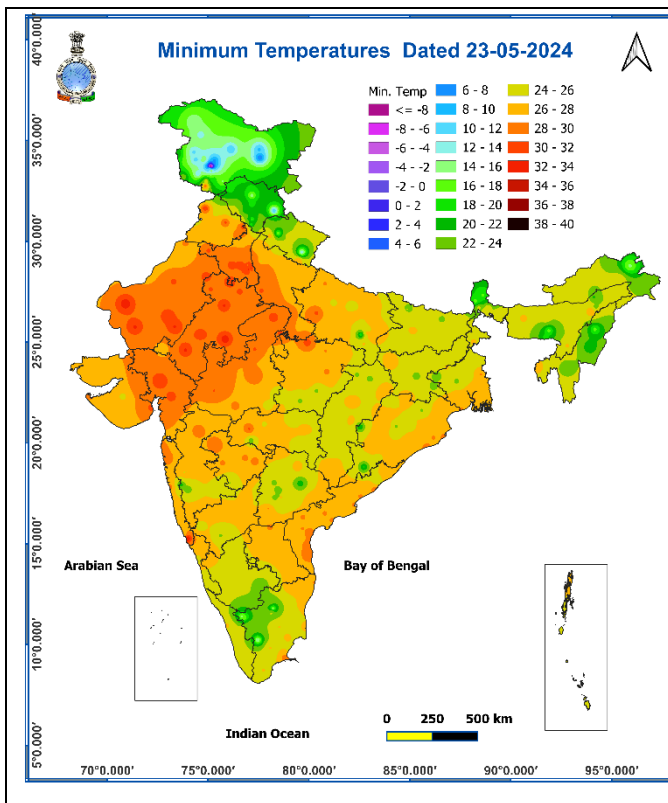
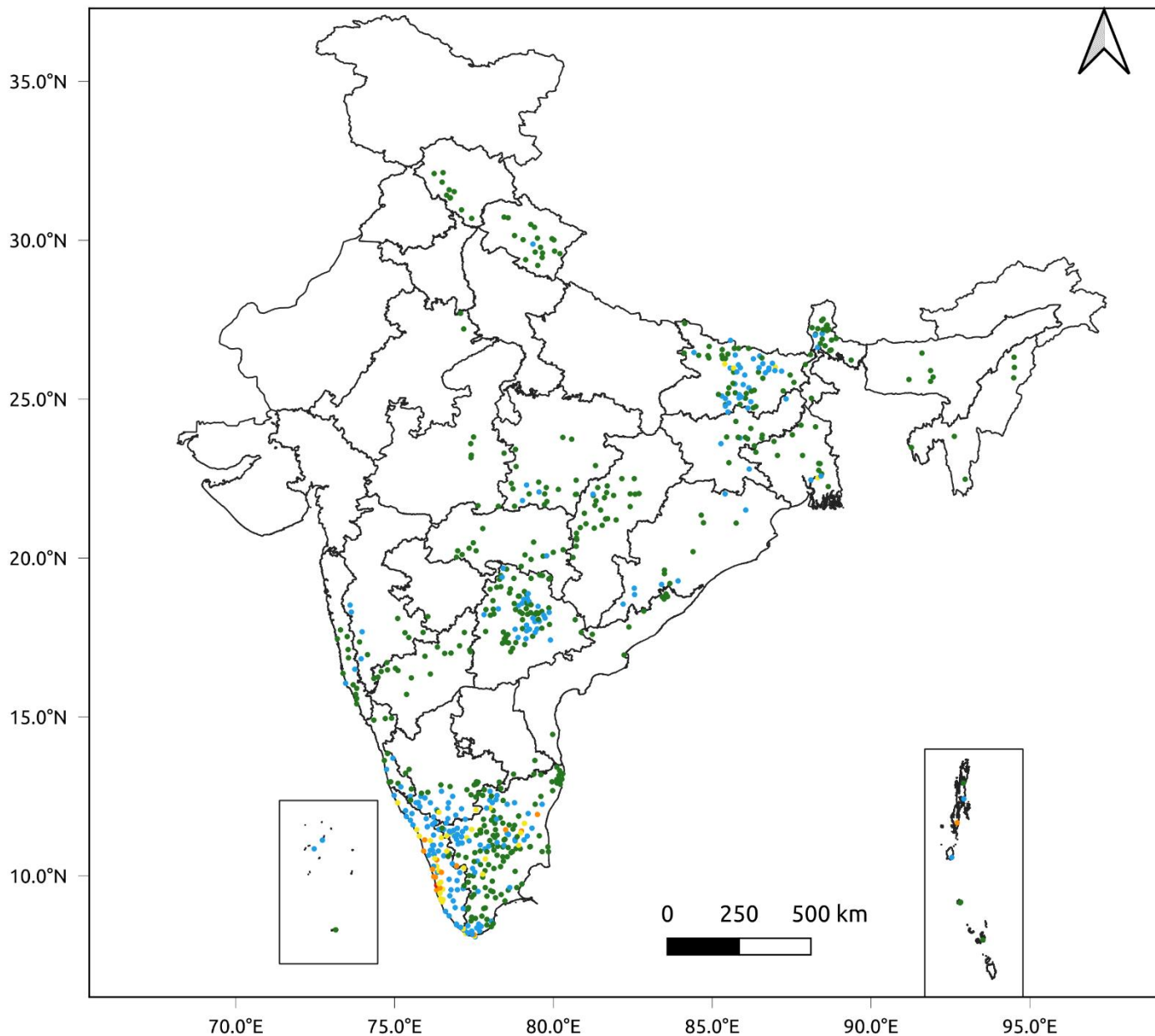


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



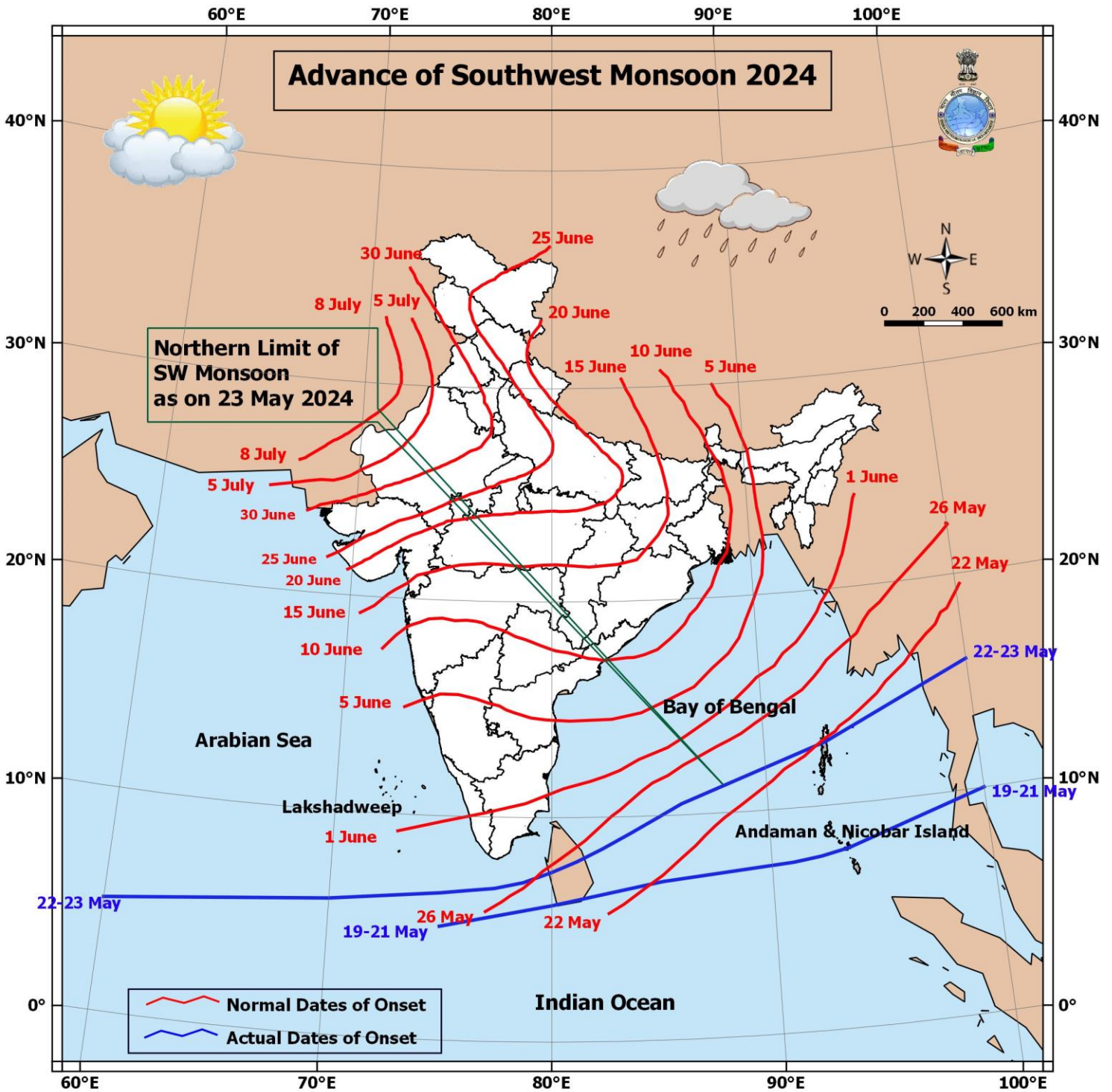
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 22-5-2024 to 0830 IST of 23-5-2024



## Legends

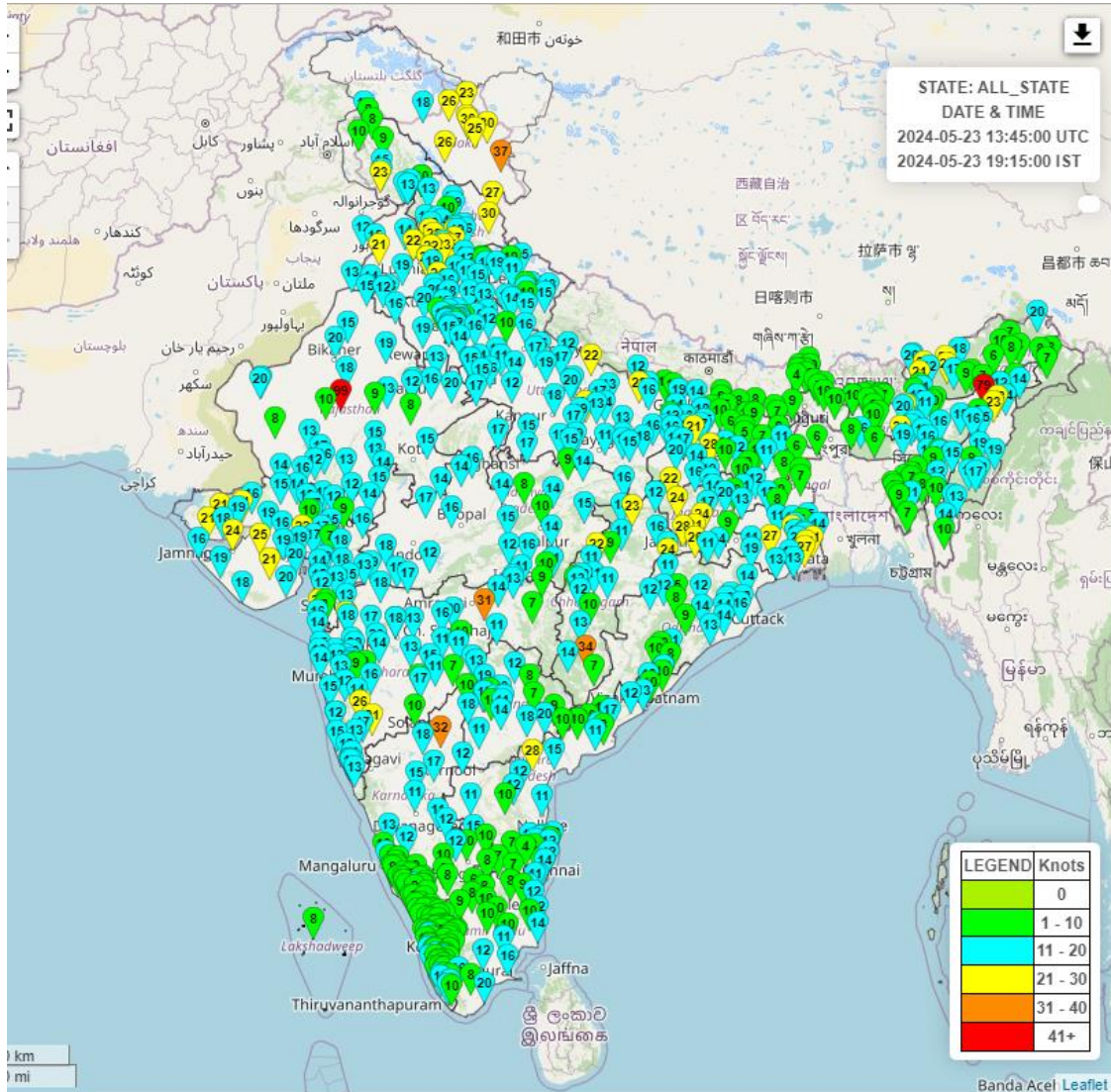
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)

**Fig. 6: Advance of Southwest Monsoon 2024**



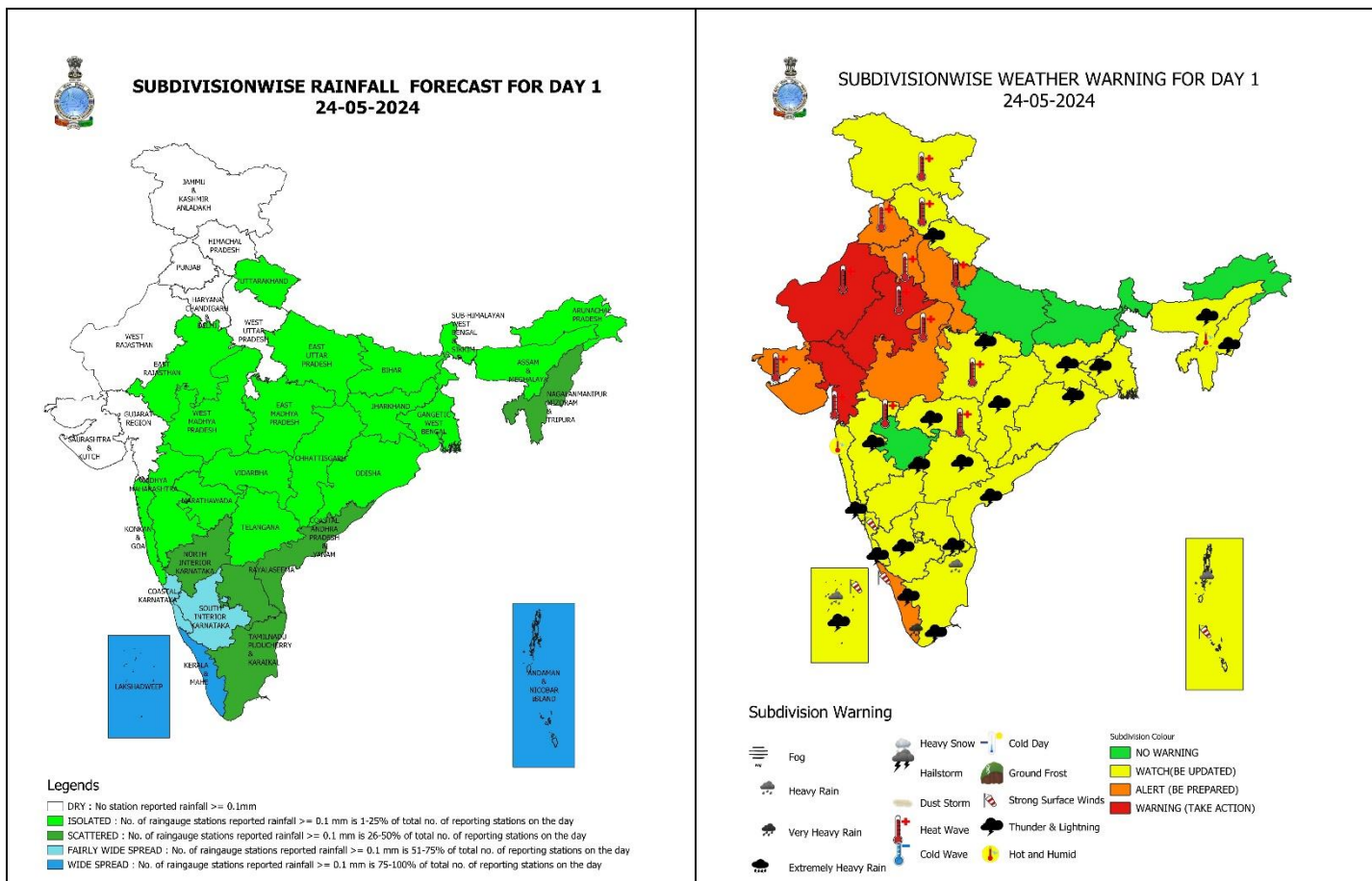
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**Fig. 7: Gusty winds reported over the country (in knots) from 0830 hrs IST of 23.05.2024 to 1915 hrs IST of 23.05.2024**



1 Knot = 1.852 kmph

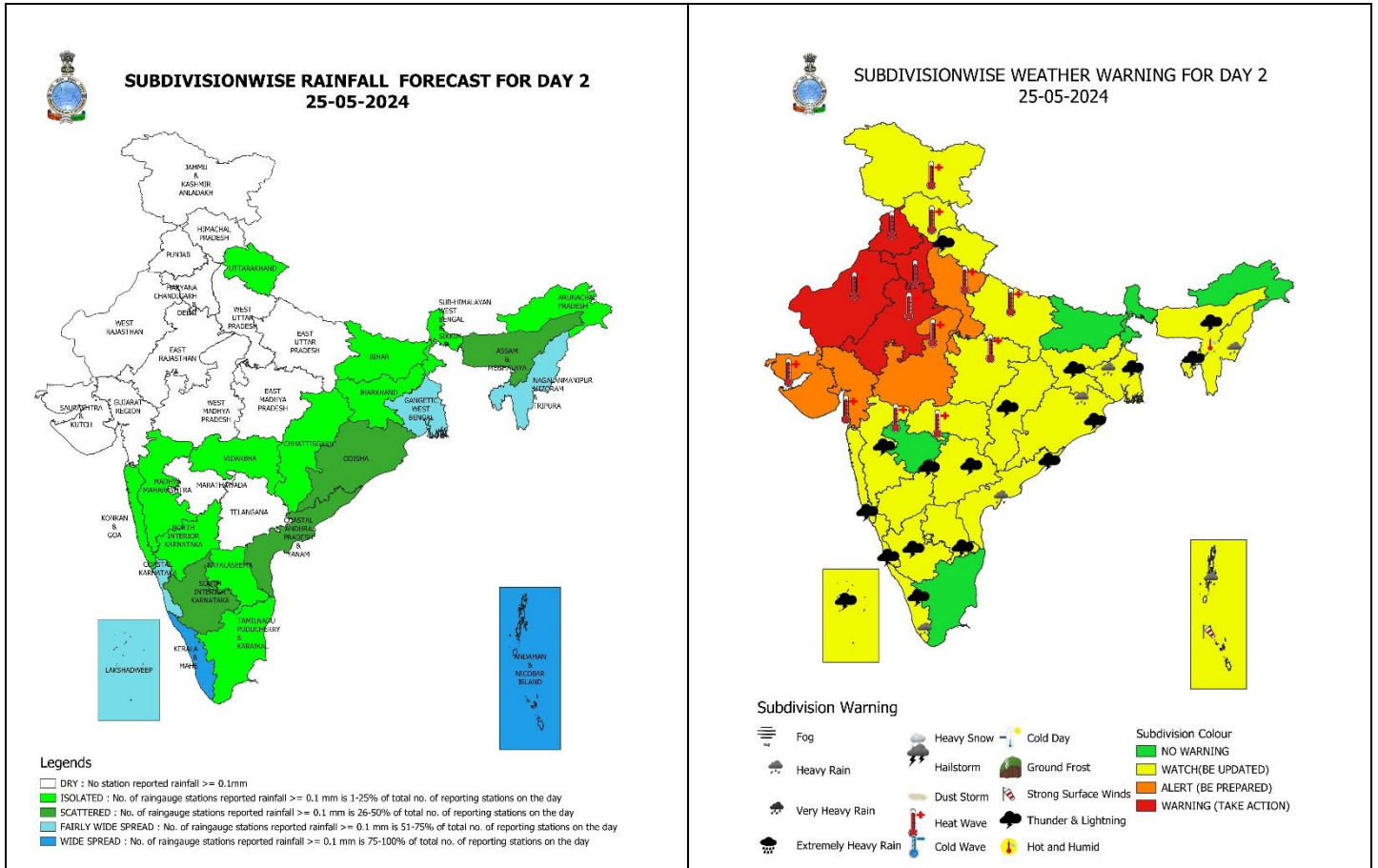
For more details, kindly refer: <http://aws.imd.gov.in:8091/>



**24 May (Day 1):**

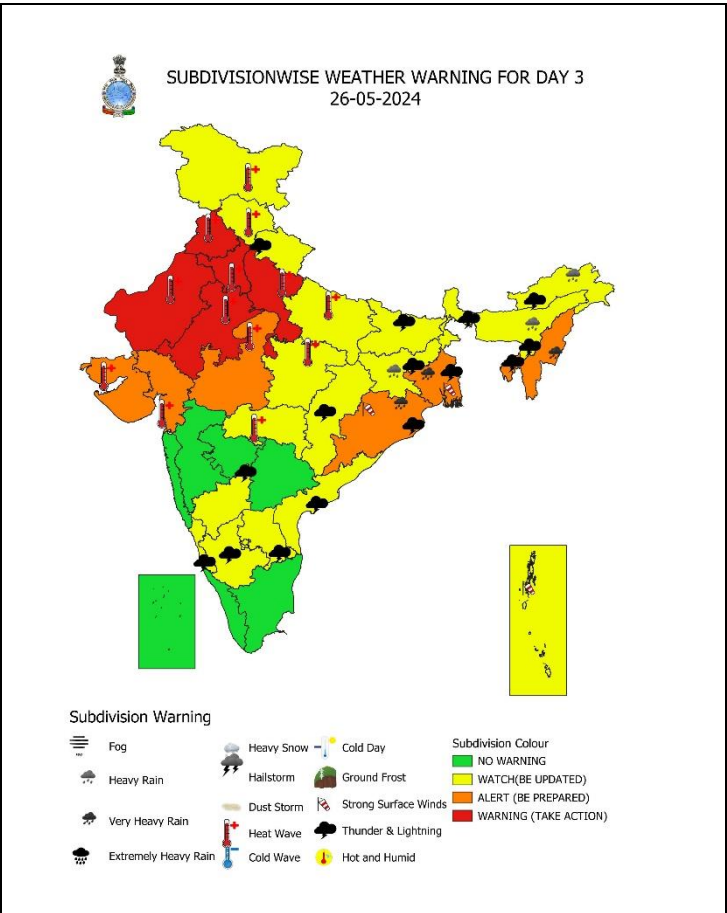
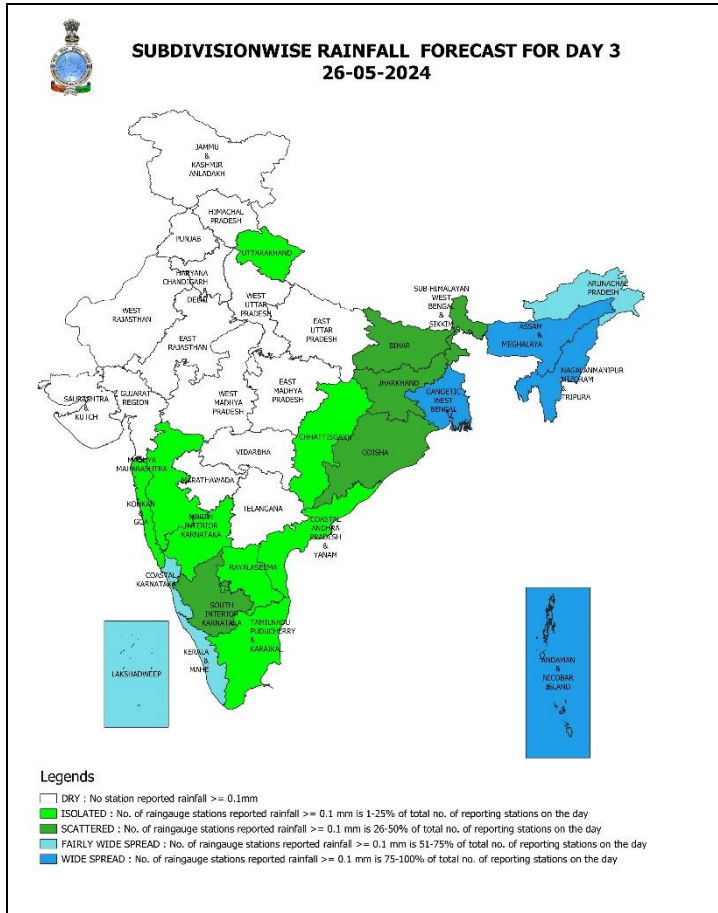
- ❖ **Heavy to very Heavy rainfall** at isolated places over Kerala & Mahe; **Heavy rainfall** very likely at isolated places over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Islands and Lakshadweep.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over East Madhya Pradesh, Chhattisgarh, North & South Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Vidarbha, Jharkhand, Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and **with lightning** at isolated places over Assam & Meghalaya, Gangetic West Bengal 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 over Punjab, Haryana-Chandigarh; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, West Uttar Pradesh, northeast Madhya Pradesh, Vidarbha, Madhya Maharashtra and Gujarat state.
- ❖ **Warm night conditions** prevail in isolated pockets over Rajasthan, Punjab, Haryana-Chandigarh-Delhi and West Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over Assam and Konkan & Goa.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail along and off Kerala, Sri Lanka coasts, Lakshadweep, Maldives areas, Comorin Area, Gulf of Mannar, south, eastcentral & adjoining westcentral & north Bay of Bengal, south Andaman Sea; **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over along & off Sri Lanka coast, Comorin area, Gulf of Mannar, south, eastcentral & adjoining westcentral Bay of Bengal, north Andaman Sea. **Squally wind with wind speed 50 kmph to 60 kmph gusting to 70 kmph** likely to prevail over north parts of eastcentral & adjoining westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over southeast Arabian Sea, Somalia coast. Fishermen are advised not to venture into these areas.

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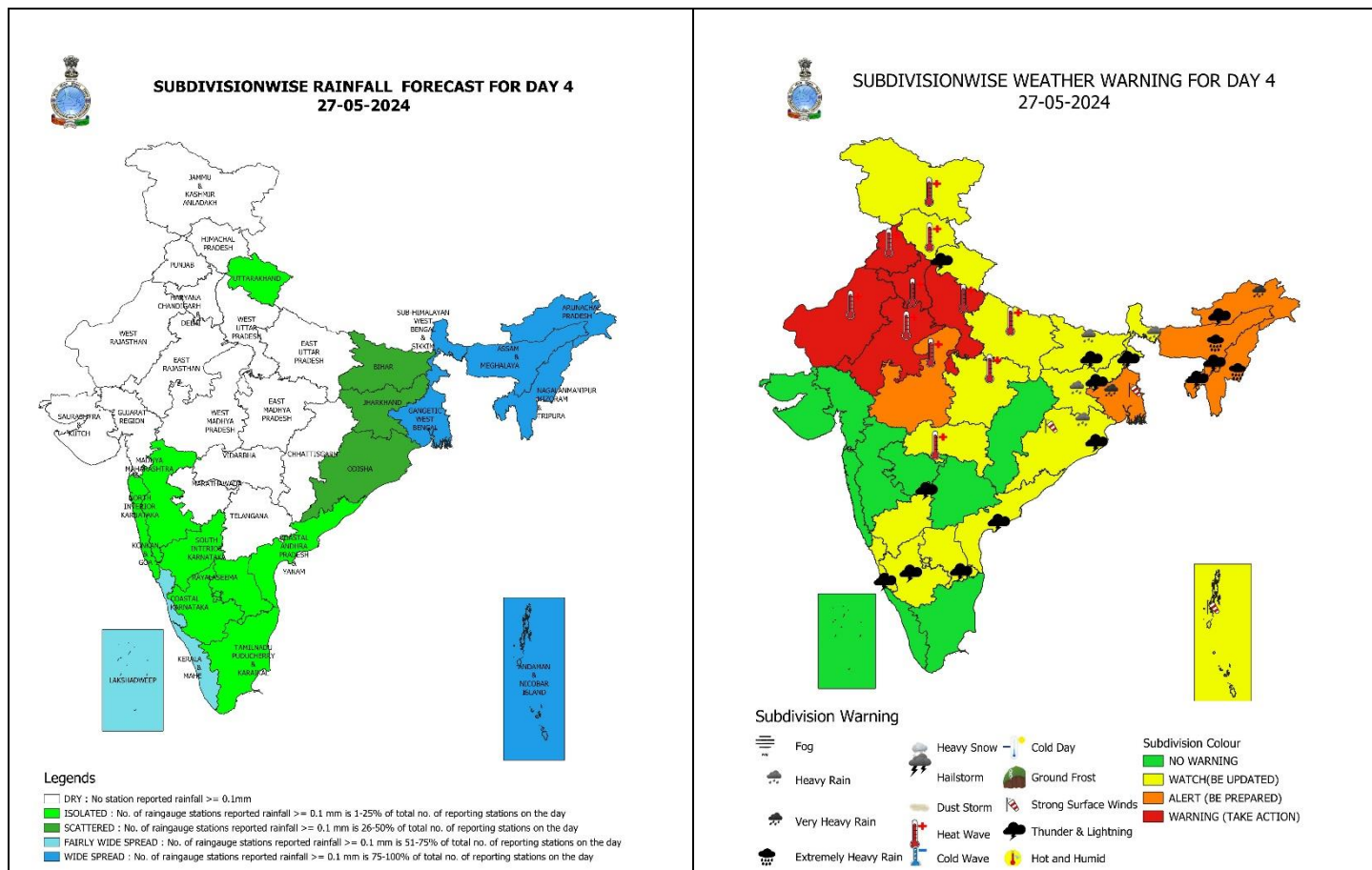
**25 May (Day 2):**

- ❖ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and North Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Jharkhand, Odisha, Konkan & Goa, Kerala & Mah, Coastal Andhra Pradesh & Yanam and Rayalaseema; **with lightning** at isolated places over Uttarakhand, Assam & Meghalaya, Madhya Maharashtra, Lakshadweep and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in many parts over East Rajasthan and Haryana-Chandigarh-Delhi; in some parts of Punjab; **heat wave conditions** in isolated pockets over Jammu division, Himachal Pradesh, Uttar Pradesh, northeast Madhya Pradesh, Vidarbha, Madhya Maharashtra and Gujarat state.
- ❖ **Warm night conditions** prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and Rajasthan.
- ❖ **Hot and humid weather** very likely to prevail Arunachal Pradesh.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail along and off Sri Lanka coasts, Comorin Area, Gulf of Mannar, south, eastcentral & adjoining westcentral & north Bay of Bengal, south Andaman Sea; **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over Comorin area, Gulf of Mannar, Sri Lanka coast, south, eastcentral & adjoining westcentral Bay of Bengal. **Squally wind with wind speed 50 kmph to 60 kmph gusting to 70 kmph** likely to prevail over eastcentral & westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along & off Somalia coast. Fishermen are advised not to venture into these areas.



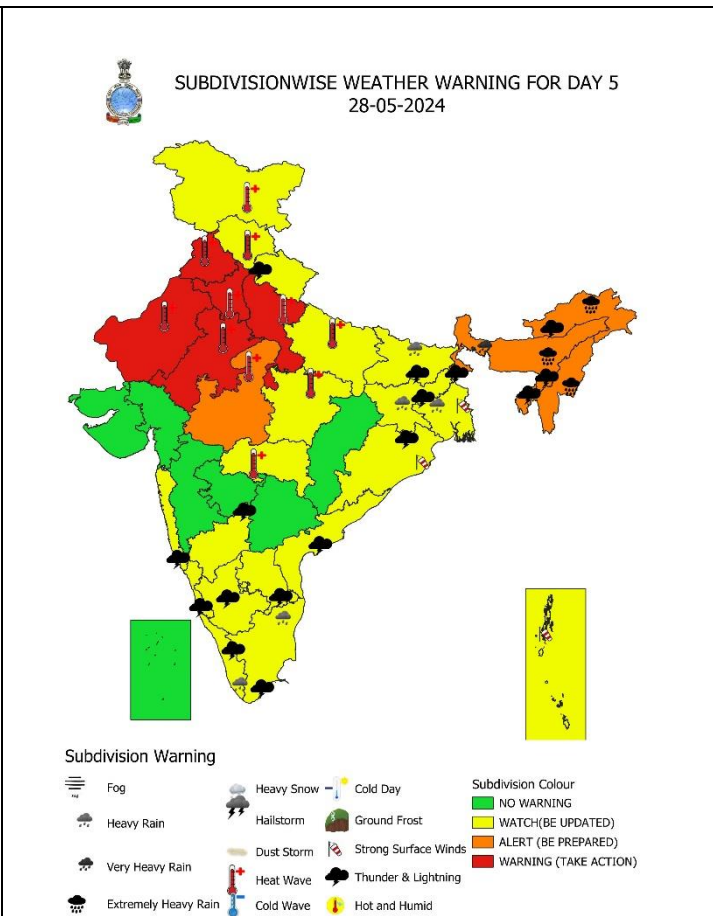
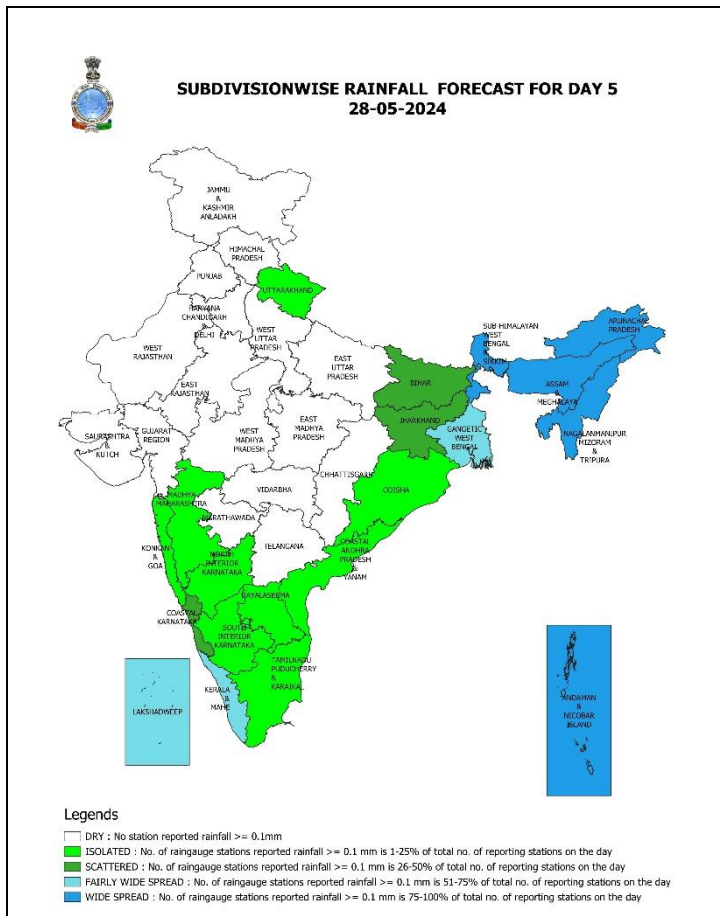
### 26 May (Day 3):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Gangetic West Bengal, Mizoram, Tripura and Odisha; **Heavy rainfall** at isolated places over Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur,.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Chhattisgarh, Jharkhand and Odisha; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Coastal Andhra Pradesh & Yanam and Rayalaseema; **with lightning** at isolated places over Uttarakhand, Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in most parts over Rajasthan; in many parts over Punjab, Haryana-Chandigarh; in some parts of West Uttar Pradesh; **heat wave conditions** in some parts of Delhi; in isolated pockets over Jammu division, Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Vidarbha and Gujarat state.
- ❖ **Warm night conditions** prevail in isolated pockets over Rajasthan.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Sri Lanka coasts, Comorin Area, Gulf of Mannar, south, eastcentral & adjoining westcentral & north Bay of Bengal, along & off Bangladesh-Myanmar coasts; **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over north, south, eastcentral & adjoining westcentral Bay of Bengal, north Andaman Sea. **Squally wind with wind speed 50 kmph to 60 kmph gusting to 70 kmph** likely to prevail over eastcentral, westcentral & adjoining north Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along & off Somalia coast. Fishermen are advised not to venture into these areas.



**27 May (Day 4):**

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Assam & Meghalaya, Mizoram, Tripura; **Heavy to very heavy rainfall** likely at isolated places over Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur; **Heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Coastal Andhra Pradesh & Yanam, Rayalaseema; with **lightning** at isolated places over Uttarakhand, Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in most parts over Rajasthan; in many parts over Punjab, Haryana-Chandigarh; in some parts of West Uttar Pradesh; **heat wave conditions** in some parts of Delhi; in isolated pockets over Jammu division, Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Vidarbha.
- ❖ **Warm night conditions** prevail in isolated pockets over Rajasthan.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Sri Lanka coast, Comorin Area, Gulf of Mannar, south, eastcentral & adjoining westcentral & north Bay of Bengal, along & off Bangladesh-Myanmar coasts; **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over north, south, eastcentral & adjoining westcentral Bay of Bengal, north Andaman Sea. **Squally wind with wind speed 50 kmph to 60 kmph gusting to 70 kmph** likely to prevail over eastcentral, westcentral & adjoining north Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along & off Somalia coast. Fishermen are advised not to venture into these areas.

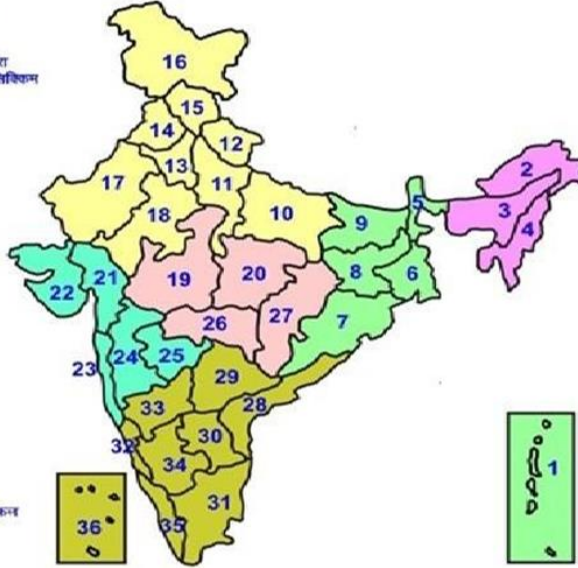


## 28 May (Day 5):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Mizoram, Tripura; **Heavy to very heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur; **Heavy rainfall** at isolated places over Jharkhand, Bihar, Gangetic West Bengal, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.
- ❖ Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Konkan & Goa; **with lightning** at isolated places over Uttarakhand, Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** likely to prevail in most parts over Rajasthan; in many parts over Punjab, Haryana-Chandigarh; in some parts of West Uttar Pradesh; **heat wave conditions** in some parts of Delhi; in isolated pockets over Jammu division, Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Vidarbha.
- ❖ **Warm night conditions** prevail in isolated pockets over Rajasthan.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Sri Lanka coast, Comorin Area, Gulf of Mannar, south, eastcentral & adjoining westcentral & north Bay of Bengal, along & off Bangladesh-Myanmar coasts; **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over north, south, eastcentral & adjoining westcentral Bay of Bengal, north Andaman Sea. **Squally wind with wind speed 50 kmph to 60 kmph gusting to 70 kmph** likely to prevail over eastcentral, westcentral & adjoining north Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along & 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 उत्तराखण्ड
- 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 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तमिलनाडु, पुदुचेरी एवं कराईकल
- 31 उत्तर कर्नाटक
- 32 दक्षिण कर्नाटक
- 33 उत्तर कर्नाटक
- 34 दक्षिण 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
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 < 1km

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)