

Wednesday, May 29, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Advance of Southwest Monsoon:

- ❖ The Northern Limit of Monsoon passes through 08°N/60°E, 07°N/75°E, 08°N/80°E, 13°N/84.5°E, 16°N/87.5°E, 18.5°N/90°E, 21°N/92.5°E.
- ❖ The conditions continue to become favourable for Southwest Monsoon onset over Kerala during next 2-3 days.
- ❖ The conditions also continue to become favourable for further advance of Southwest Monsoon into some more parts of South Arabian Sea, remaining parts of Maldives and Comorin area; some parts of Lakshadweep area, Kerala; some more parts Southwest & Central Bay of Bengal, Northeast Bay of Bengal and some parts of Northeastern states during the same period.

Well Marked Low Pressure Area (remnant of Cyclonic Storm "Remal") weakened into a Low Pressure Area over northeast Assam & neighbourhood:

The well marked low pressure area (remnant of Severe Cyclonic Storm "Remal") over northeast Assam & neighbourhood weakened into a low pressure area over the same region. However, the associated cyclonic circulation extends upto mid tropospheric levels.

- ❖ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 7 days.
 - Isolated heavy/very heavy rainfall very likely over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim during next 5 days; Nagaland, Manipur, Mizoram & Tripura during 29th-30th May, 2024.
- ❖ Isolated to scattered light/moderate rainfall over Bihar, Jharkhand, Gangetic West Bengal, Odisha during next 5 days and accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** likely over the above region on 31st May & 01st June.
- ❖ A cyclonic circulation lies over south Tamil Nadu & neighbourhood in middle tropospheric levels. 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, Andaman & Nicobar Islands; isolated to scattered light/moderate rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Telangana, Rayalaseema, Karnataka during next 7 days.
 - **Isolated heavy rainfall very likely over Kerala & Mahe during next 5 days; Lakshadweep on 29th; over Andaman & Nicobar Islands on 31st May & 01st June, 2024.**
 - **Isolated very heavy rainfall over Kerala & Mahe on 29th & 30th May, 2024.**
- ❖ A fresh Western Disturbance likely to affect Northwest India from 30th May, 2024. Under its influence;
 - Isolated to scattered light rainfall accompanied with **thunderstorm, lightning** very likely over Uttarakhand and Himachal Pradesh during 29th May-01st June and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 30th & 31st May, 2024.
 - Isolated very light rainfall likely over plains of Northwest India during 30th May-02nd June.

Maximum temperature observation:

- ❖ **Areas having maximum temperatures greater than 40°C:** Yesterday, maximum temperatures were in the range of 46-50°C in many parts of Northwest India; 42-46°C in many parts of West, Central & East India. These were above normal by 3-6°C over many parts of Northwest India and in some parts of Central & West India.

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

- ❖ **Heat wave to severe heat wave conditions** very likely in many/most parts of Rajasthan; in some/many parts of Punjab, Haryana-Chandigarh-Delhi; in isolated/some parts of Uttar Pradesh, Madhya Pradesh on 29th and gradual reduction thereafter with isolated heat wave over Punjab during 30th May to 02nd June, 2024.
- ❖ **Heat wave to severe heat wave** conditions likely to reduce gradually over Northwest & Central India from 30th May.
- ❖ **Heat wave conditions** very likely in isolated pockets of Bihar and Jharkhand during 29th-31st; Vidarbha, Chhattisgarh during 29th-30th; Jammu division, Himachal Pradesh on 29th and Odisha on 29th & 30th May, 2024.
- ❖ **Hot and humid weather** very likely to prevail in isolated pockets of Gujarat state on 29th May, 2024.
- ❖ **Warm night conditions** in isolated pockets very likely to prevail over Uttar Pradesh, East Madhya Pradesh on 29th; Punjab, Haryana-Chandigarh-Delhi during 30th May-02nd June, 2024.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Andaman & Nicobar Islands, Assam & Meghalaya, and Kerala & Mahe; **at a few places** over Lakshadweep and Nagaland, Manipur, Mizoram & Tripura and **at isolated places** over Coastal Karnataka, and Arunachal Pradesh.
- ❖ **Heavy Rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall** observed at isolated places over Assam and Kerala & Mahe; **heavy rainfall** at isolated places over Manipur.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Kerala & Mahe:** Poonjar (Kottayam) : 17, Kalamassery (Ernakulam) : 15, Vaikkom (Kottayam) : 9, Thycattussery (Alappuzha) : 8, Athirappilly (Thrissur) : 8, Kottayam : 7, Vadavathoor (Kottayam) : 7, Kochi (Ernakulam) : 7, Kottayam : 7, Punalur (Kollam) : 5, CIAL Airport (Ernakulam) : 5; **Assam & Meghalaya:** Halflong-12, Silchar-11, Tezpur-5, Barapani-4, North Lakhimpur, Majbat, Lumding and Shillong-3 each; **Andaman & Nicobar Islands:** Hut bay: 5; **Arunachal Pradesh:** Itanagar-4; **Nagaland, Manipur, Mizoram & Tripura:** Imphal-7, Kailashahar-3.
- ❖ **Maximum wind speed** recorded (from 0830 hours IST to 1730 hours IST of yesterday): (in kmph): **Gujarat State:** Kandla-34, Bhavnagar-32, **Maharashtra:** Shahada_AWS & Kalwan -31 each, Sakoli_KVK -35, **Mizoram:** Champhai_AWS-41, Mizoram_university-31, **Himachal Pradesh:** Tabo-36, **Assam:** Silchar-35, Guahati_university-34, Shillongani_AMFU-31.
- ❖ Yesterday, **heat wave to severe heat wave conditions** prevailed over most parts of Rajasthan, Haryana-Chandigarh-Delhi; in many parts of Uttar Pradesh, Madhya Pradesh; in isolated pockets of Bihar, Himachal Pradesh. **Heat wave conditions** prevailed in many places over Vidarbha; in some pockets over Jammu-Kashmir and in isolated pockets of Uttarakhand and Chhattisgarh.
- ❖ **Minimum Temperature Departures (as on 28-05-2024):** Minimum temperatures were **markedly above normal (5.1°C or more)** at a few places over East Rajasthan; at isolated places over Bihar; **appreciably above normal (3.1°C to 5.0°C)** at many places over Uttar Pradesh; at a few places over West Rajasthan, East Madhya Pradesh and Odisha; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Madhya Pradesh and Chhattisgarh; **above normal (1.6°C to 3.0°C)** at many places over Coastal Andhra Pradesh & Yanam; at a few places over Vidarbha, Telangana and Andaman & Nicobar Islands; at isolated places over Punjab, Haryana-Chandigarh-Delhi, Sub-Himalayan West Bengal & Sikkim, Saurashtra & Kutch, Madhya Maharashtra, Konkan & Goa, Marathwada, Interior Karnataka, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. These were **below normal (-1.6°C to -3.0°C)** at a few places over Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 21.0°C was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 28-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Punjab and Haryana-Chandigarh-Delhi; at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Chhattisgarh and Odisha; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Uttarakhand, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Vidarbha, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at isolated places over Gujarat Region, Madhya Maharashtra, Marathwada and Coastal Andhra Pradesh & Yanam. These were **markedly below normal (-5.1°C or less)** at a few places over Assam & Meghalaya; at isolated places over Nagaland, Manipur, Mizoram & Tripura; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Kerala & Mahe; **below normal (-1.6°C to -3.0°C)** at isolated places over Telangana and North Interior Karnataka and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 50.5°C was reported at **Churu (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

❖ Further advance of Southwest Monsoon:

- The Northern Limit of Monsoon continues to pass through 08°N/60°E, 07°N/75°E, 08°N/80°E, 13°N/84.5°E, 16°N/87.5°E, 18.5°N/90°E, 21°N/92.5°E.
- **The conditions continue to become favourable for Monsoon onset over Kerala during next 2-3 days.**
- The conditions also continue to become favourable for further advance of Southwest Monsoon into some more parts of South Arabian Sea, remaining parts of Maldives and Comorin area; some parts of Lakshadweep area, Kerala; some more parts Southwest & Central Bay of Bengal, Northeast Bay of Bengal and some parts of Northeastern states during the same period.

❖ The **well marked low pressure area (remnant of Severe Cyclonic Storm "Remal")** over northeast Assam & neighbourhood weakened into a **low pressure area** over the same region. However, the associated cyclonic circulation extends upto mid tropospheric levels.

❖ The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 76°E to the north of Lat. 33°N persists.

❖ The cyclonic circulation over northwest Uttar Pradesh & neighbourhood at 0.9 km above mean sea level persists.

❖ The trough from above cyclonic circulation over northwest Uttar Pradesh to north Chhattisgarh across East Madhya Pradesh at 0.9 km above mean sea level persists.

❖ The cyclonic circulation over south Tamil Nadu & neighbourhood at 5.8 km above mean sea level persists.

❖ The cyclonic circulation over Westcentral Arabian Sea off Oman coast between 1.5 & 5.8 km above mean sea level persists.

❖ A fresh Western Disturbance likely to affect Northwest India from 30th May, 2024.

Weather Forecast for next 7 days (Upto 0830 hours IST of 05th June, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ No significant change in maximum temperatures very likely over Northwest & Central India during next 24 hours and fall by 2-3°C thereafter.
- ❖ Rise in maximum temperatures by 3-5°C very likely over East India during next 2 days and no significant change thereafter.
- ❖ Fall in maximum temperatures by 2-3°C very likely over Gujarat during next 4 days.
- ❖ Rise in maximum temperatures by 2-3°C very likely over Maharashtra during next 24 hours and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 05th-07th June, 2024)

- ❖ Scattered to fairly widespread rainfall likely over Islands, Northeast and Peninsular India. Isolated to Scattered to rainfall likely over Western Himalayan Region.
- ❖ Mainly dry weather likely to prevail over rest parts of the country.

Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	29-May	30-May	31-May	01-Jun	02-Jun	03-Jun	04-Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	FWS	FWS
2	ARUNACHAL PRADESH	WS	WS	WS	WS	WS	WS	WS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	WS	FWS	FWS	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	WS	WS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	ISOL	ISOL	SCT	SCT	SCT	ISOL	ISOL
7	ODISHA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
8	JHARKHAND	DRY	ISOL	ISOL	ISOL	SCT	SCT	SCT
9	BIHAR	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
10	EAST UTTAR PRADESH	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	SCT	SCT	SCT	SCT	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
14	PUNJAB	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	DRY	ISOL	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	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
27	CHHATTISGARH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	ISOL	SCT	SCT	SCT	SCT
30	RAYALASEEMA	DRY	DRY	ISOL	SCT	SCT	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	ISOL	SCT	WS	FWS	FWS	FWS	FWS
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

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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

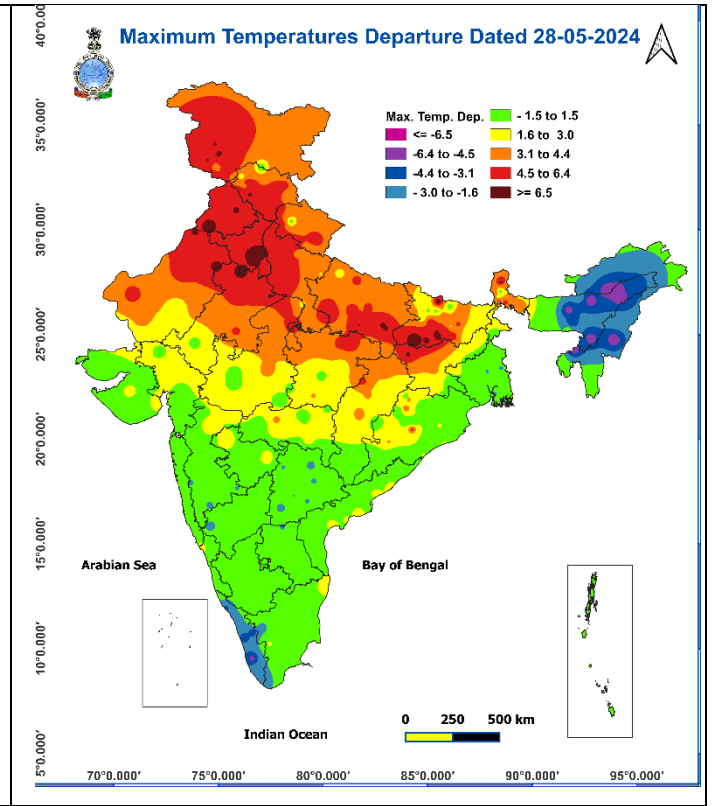
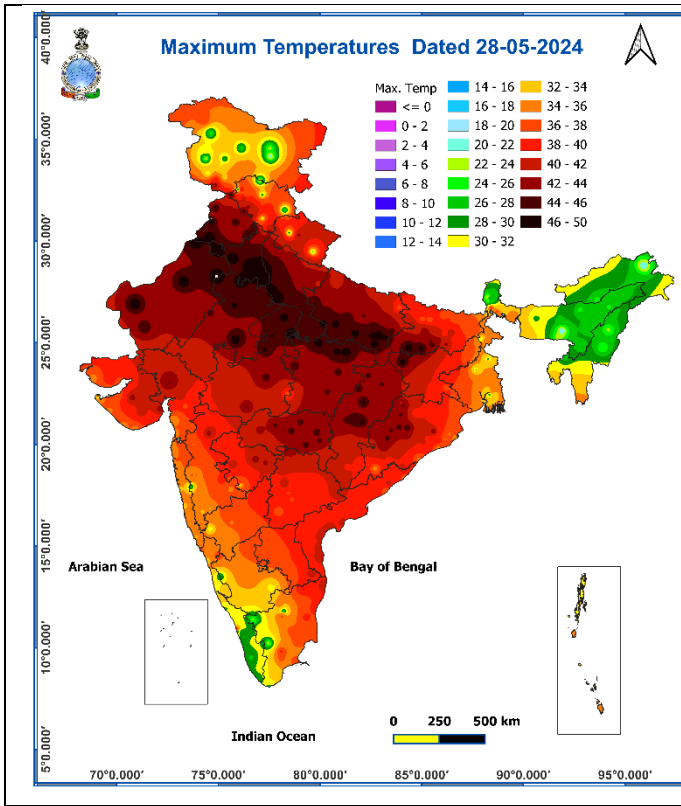


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

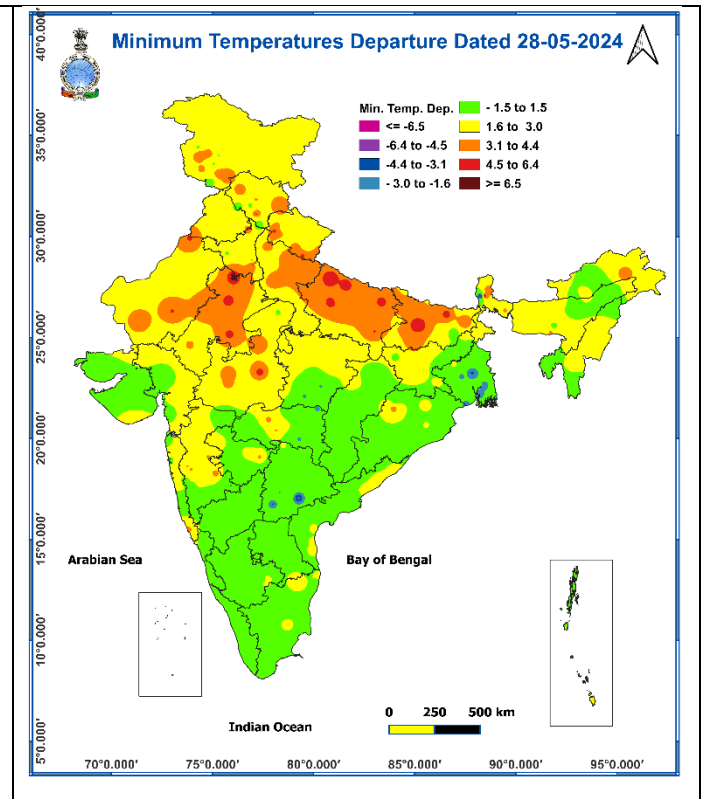
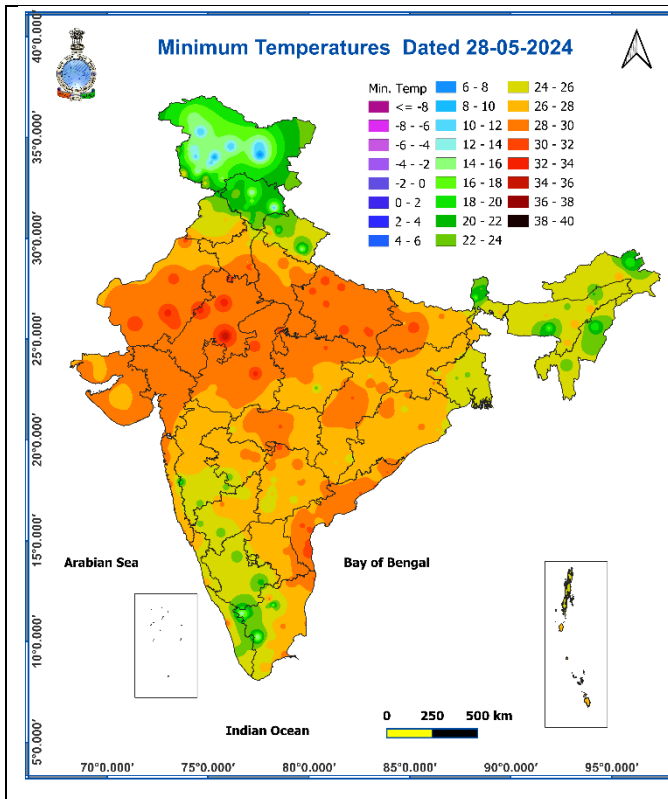
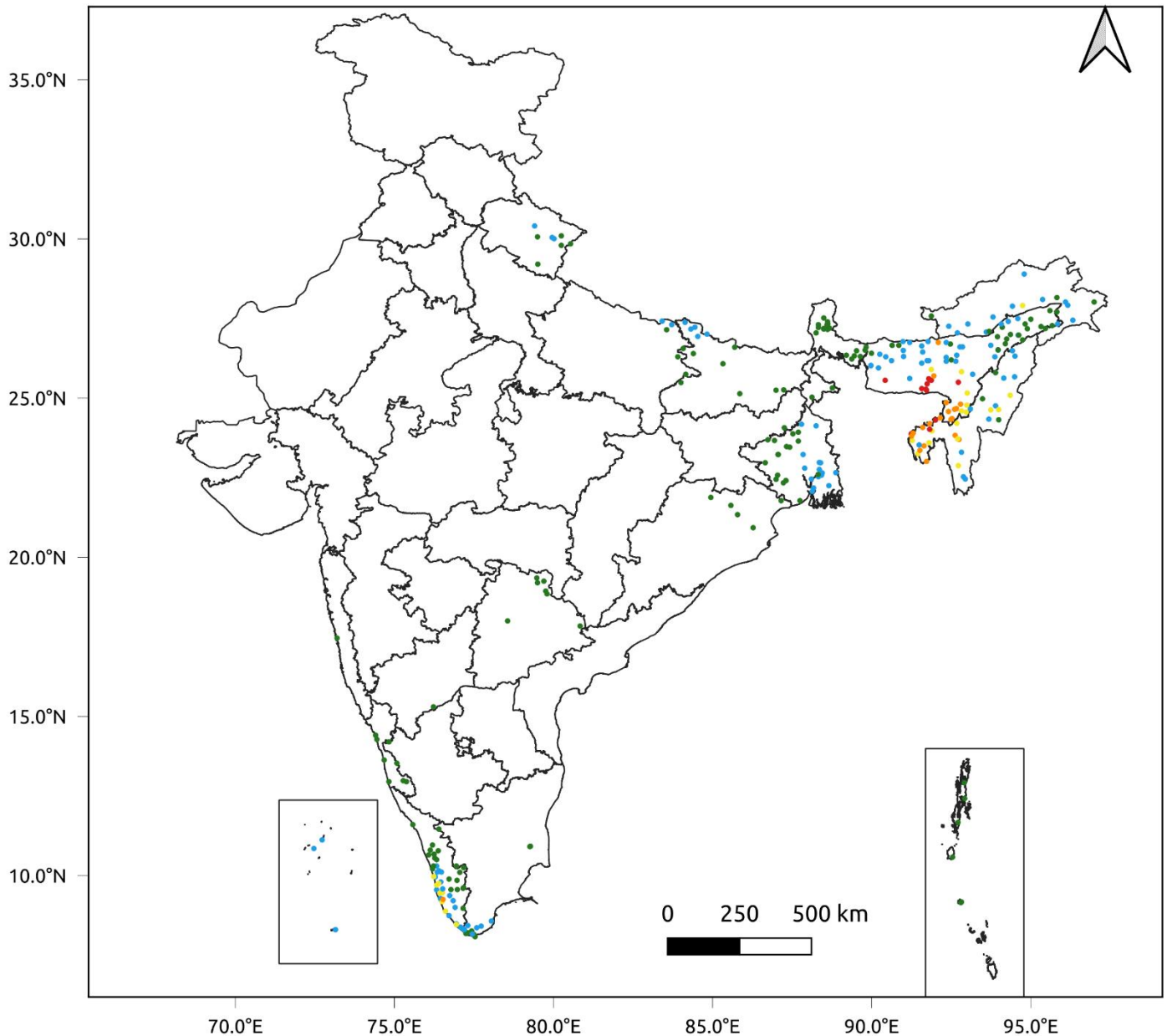


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



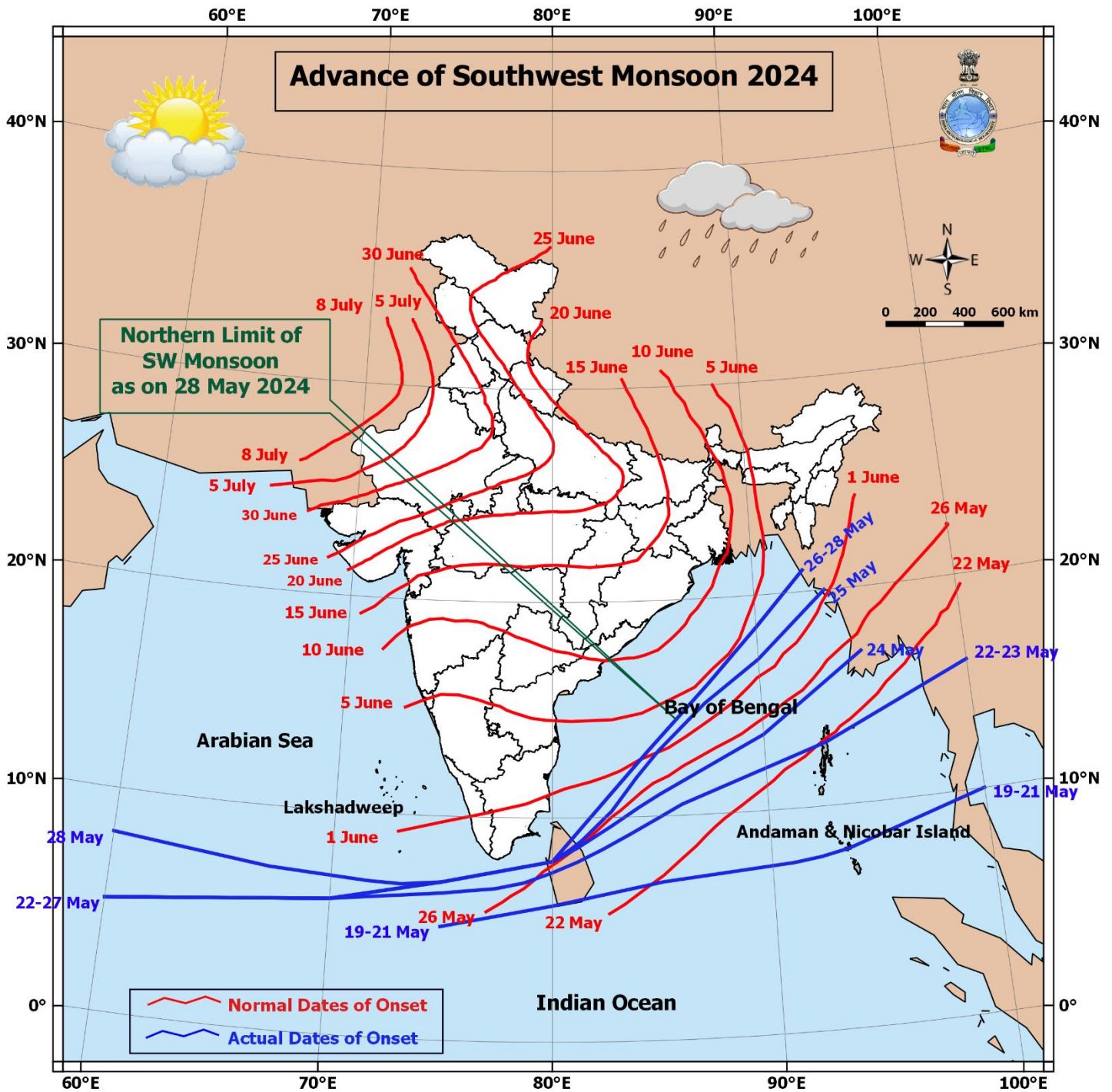
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 27-5-2024 to 0830 IST of 28-5-2024



Legends

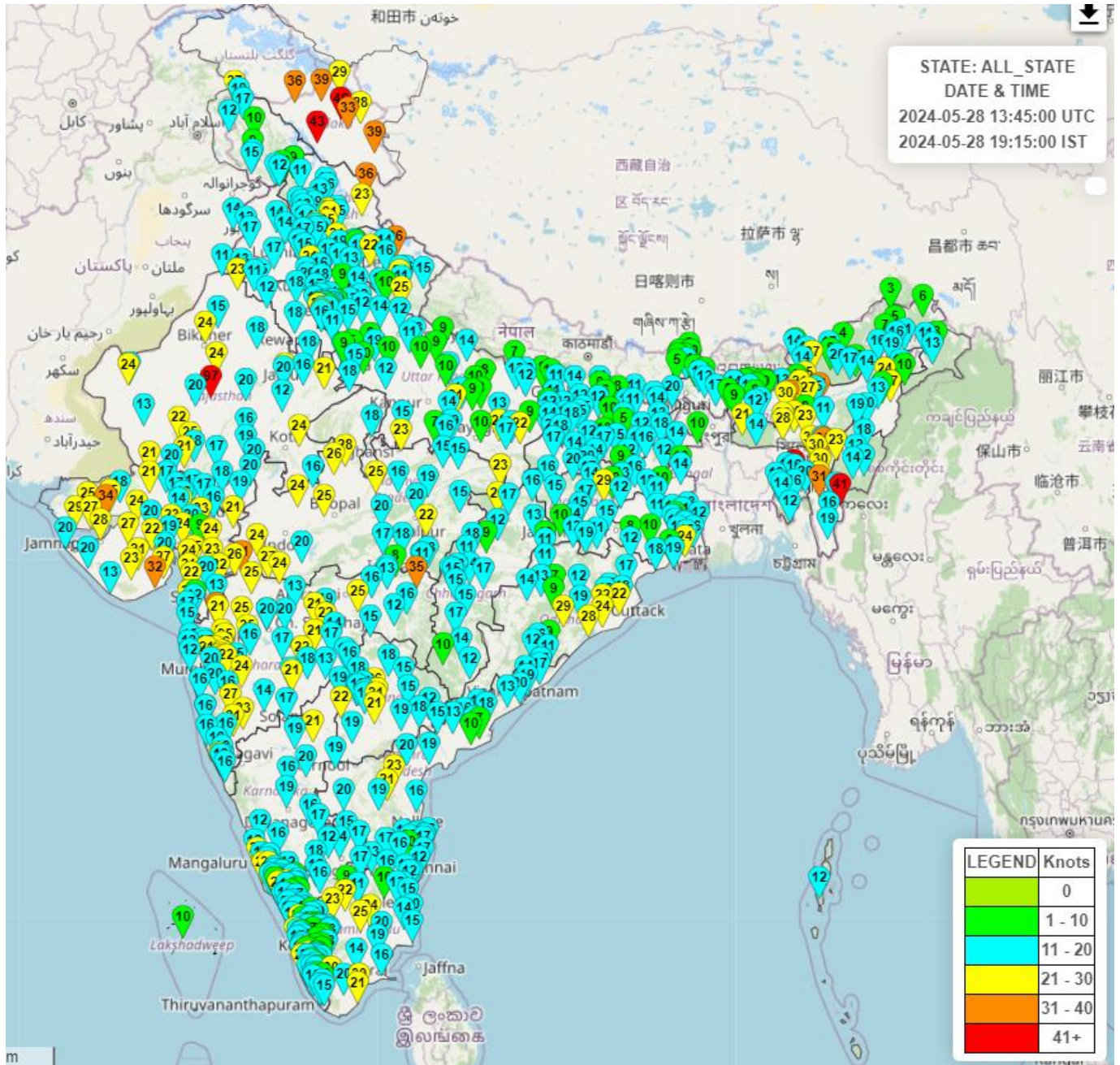
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



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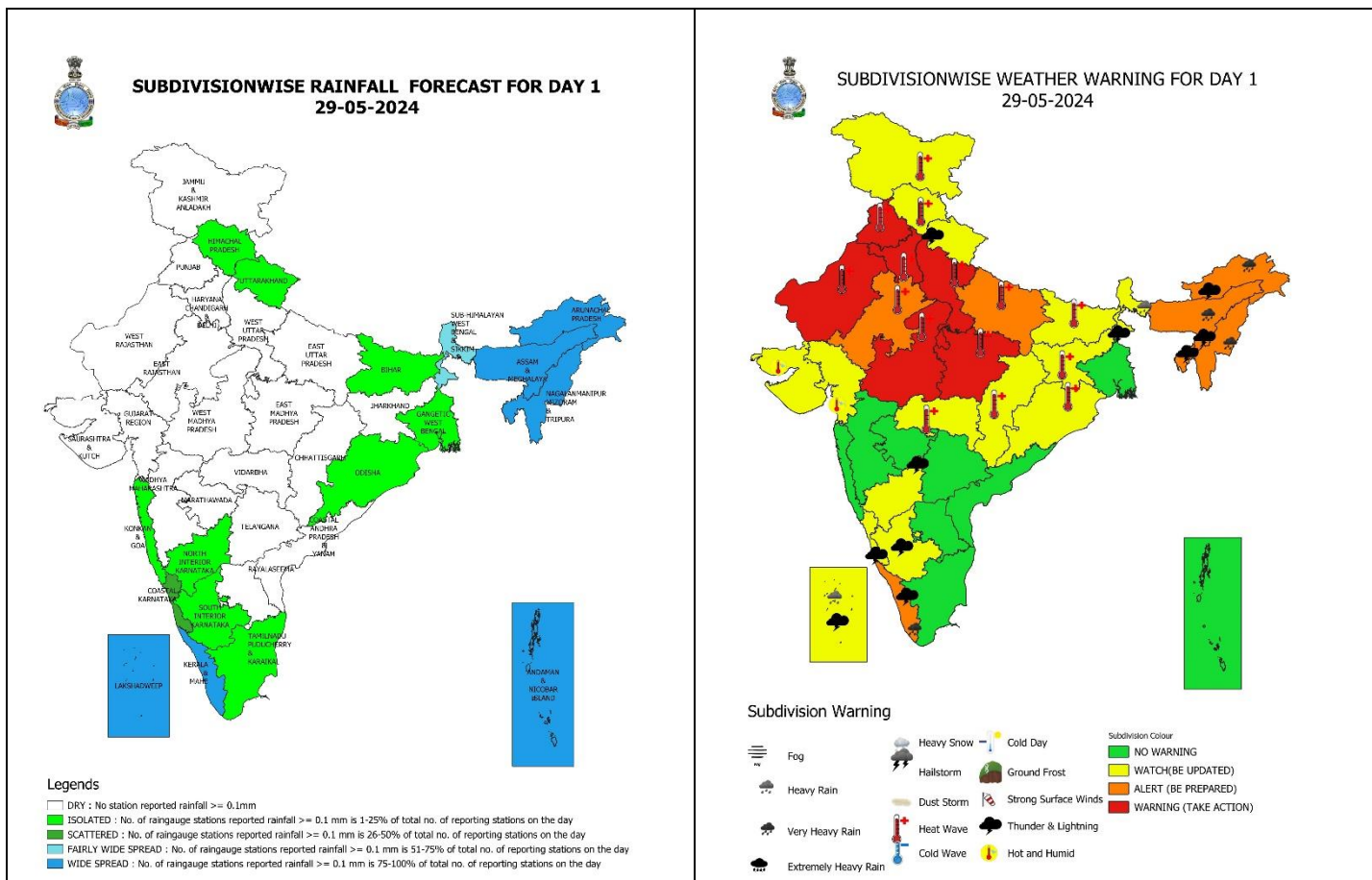
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST to 1915 hours IST of 28.05.2024



1 Knot = 1.852 kmph

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

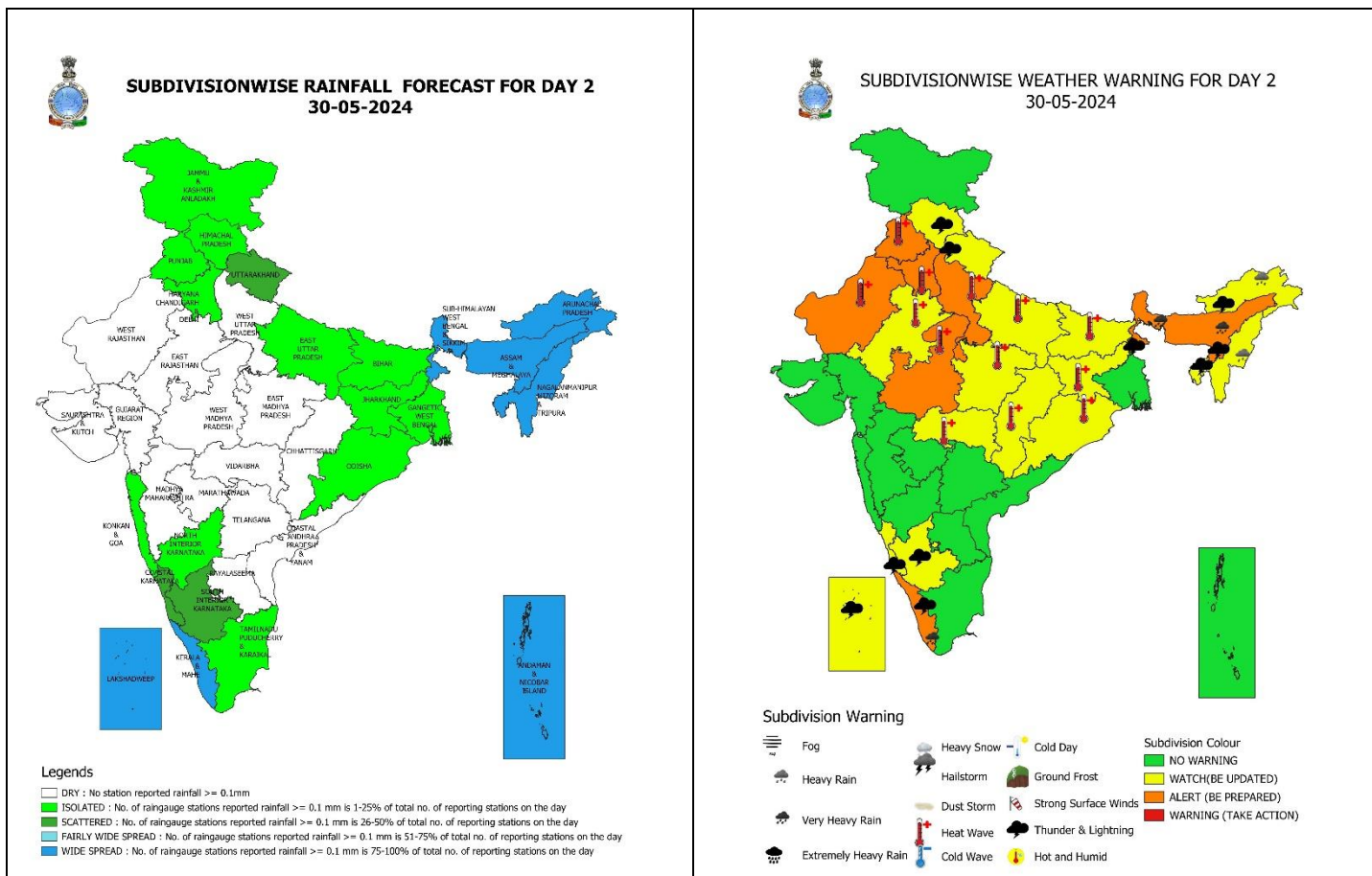
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29 May (Day 1):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim and Lakshadweep.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Interior Karnataka; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Lakshadweep and Coastal Karnataka.
- ❖ **Heat Wave to severe heat wave Conditions** very likely to prevail in many parts over Punjab, Haryana-Chandigarh-Delhi and West Rajasthan; in some parts of West Uttar Pradesh; in isolated pockets over East Uttar Pradesh and Madhya Pradesh; **heat wave conditions** in some parts over East Rajasthan; in isolated pockets over Jammu division, Himachal Pradesh, Vidarbha, Chhattisgarh Bihar, Jharkhand and Odisha.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Uttar Pradesh, East Madhya Pradesh, Chhattisgarh and Bihar.
- ❖ **Hot and humid weather** very likely to prevail over Gujarat state.
- ❖ **Squally Weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over Southeast and Adjoining Southwest, Central Arabian Sea, Lakshadweep, Maldives Areas, Comorin Area, Gulf of Mannar, along and off South Kerala and South Sri Lanka Coasts, Central Parts of South Bay Of Bengal, Eastcentral Bay Of Bengal & Central Parts Of North Bay Of Bengal, Andaman Sea. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over Maldives area and adjoining Southeast Arabian Sea, Comorin Area, Gulf of Mannar. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia Coast, Southwest and Adjoining Westcentral Arabian Sea, Eastern Parts of Northeast Arabian Sea, Gulf of Khambhat, along and off North Andhra Pradesh, South Odisha Coasts & Adjoining West Central Bay Of Bengal. Fishermen are advised not to venture into these areas.

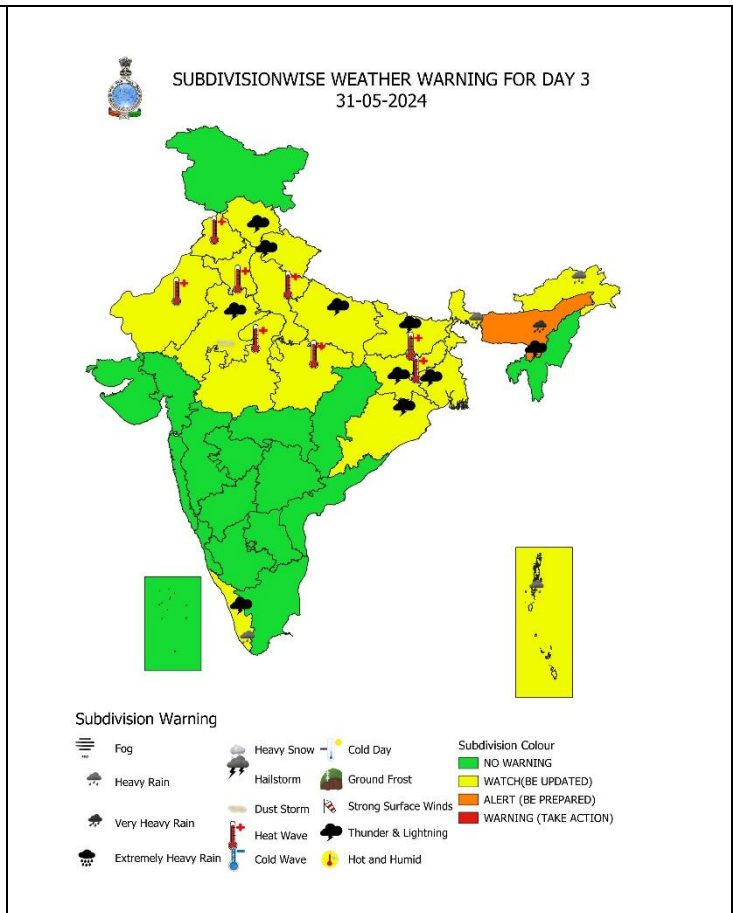
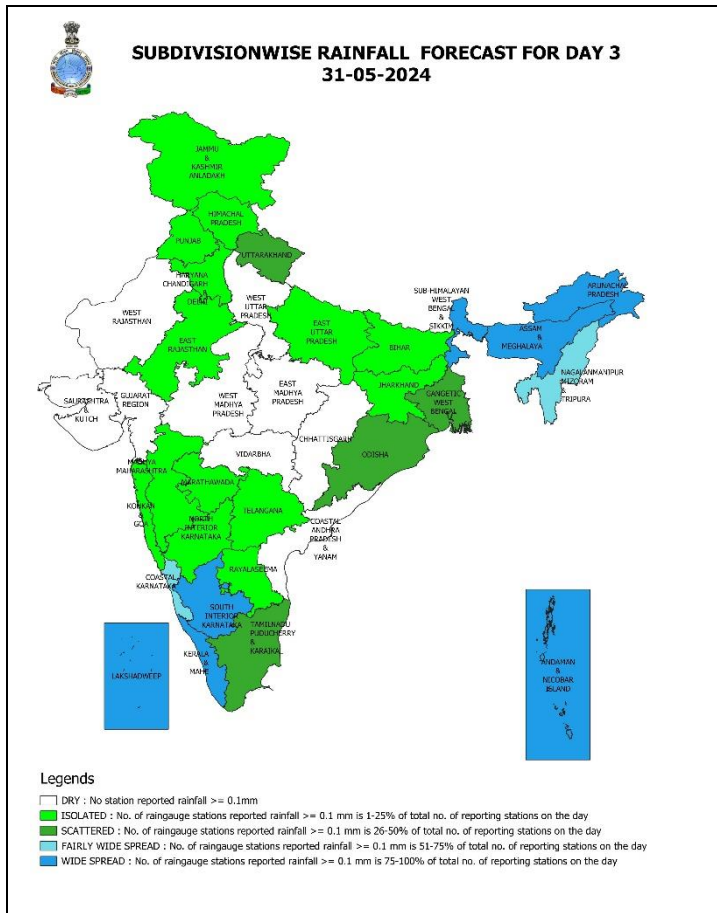
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30 May (Day 2):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Kerala & Mahe; **heavy rainfall** at isolated places over, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and South Interior Karnataka; **with lightning** at isolated places over Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and Coastal Karnataka.
- ❖ **Heat wave conditions** very likely to prevail in some parts over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and West Rajasthan; in isolated pockets over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand and Odisha.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Punjab, Haryana-Chandigarh and Chhattisgarh.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southeast and adjoining Southwest Arabian Sea, Lakshadweep, Maldives Area, Comorin Area, Along and Off South Kerala and South Sri Lanka Coasts, Gulf of Mannar, South And Adjoining Central Bay Of Bengal. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over Comorin Area & Adjoining Maldives Area, Southern Parts Of Southwest Bay Of Bengal. **squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia Coast, Southwest and Adjoining Westcentral Arabian Sea, Eastern Parts Of Northeast Arabian Sea, along and off northern part of North Andhra Pradesh Coast. Fishermen are advised not to venture into these areas.

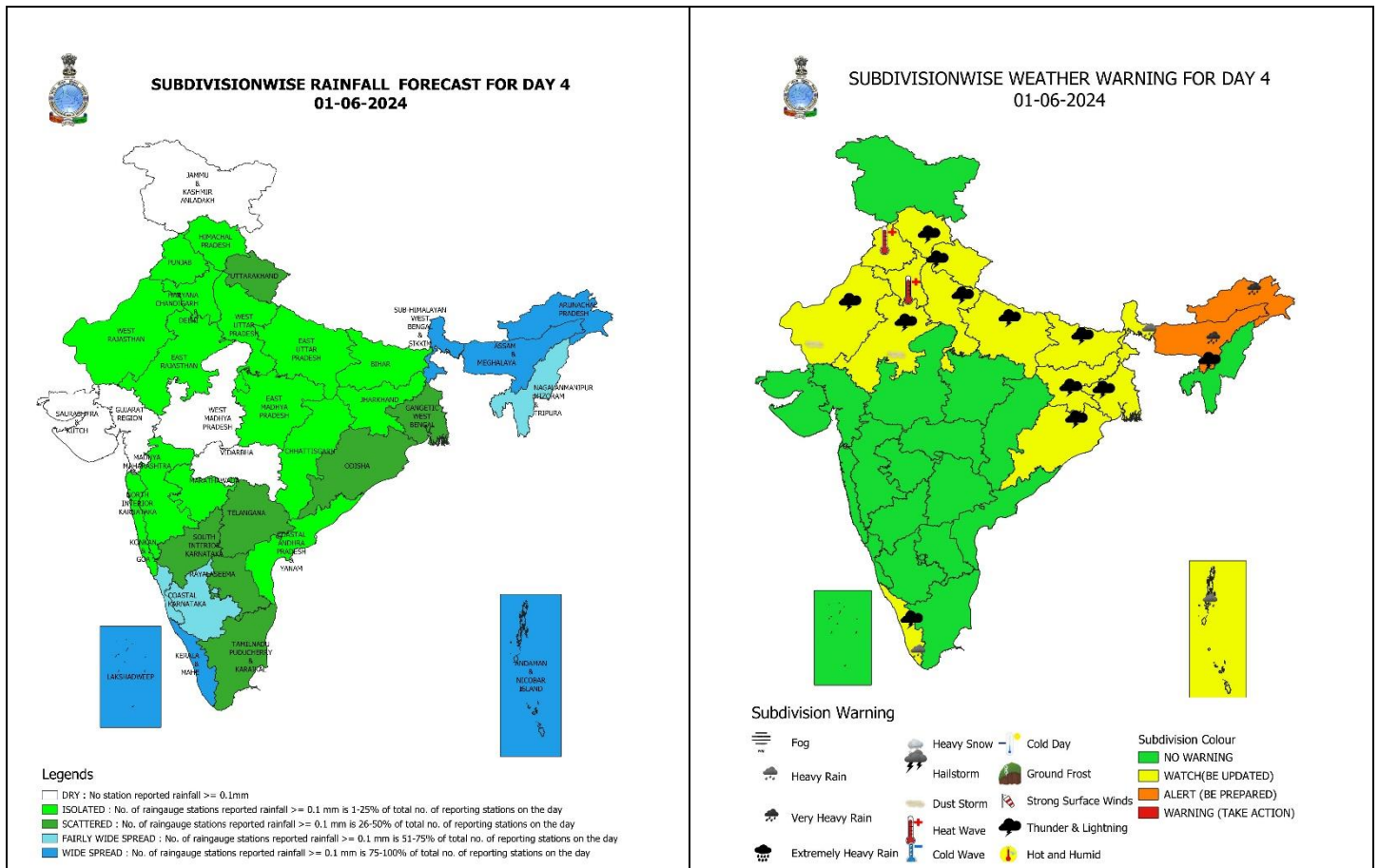
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31 May (Day 3):

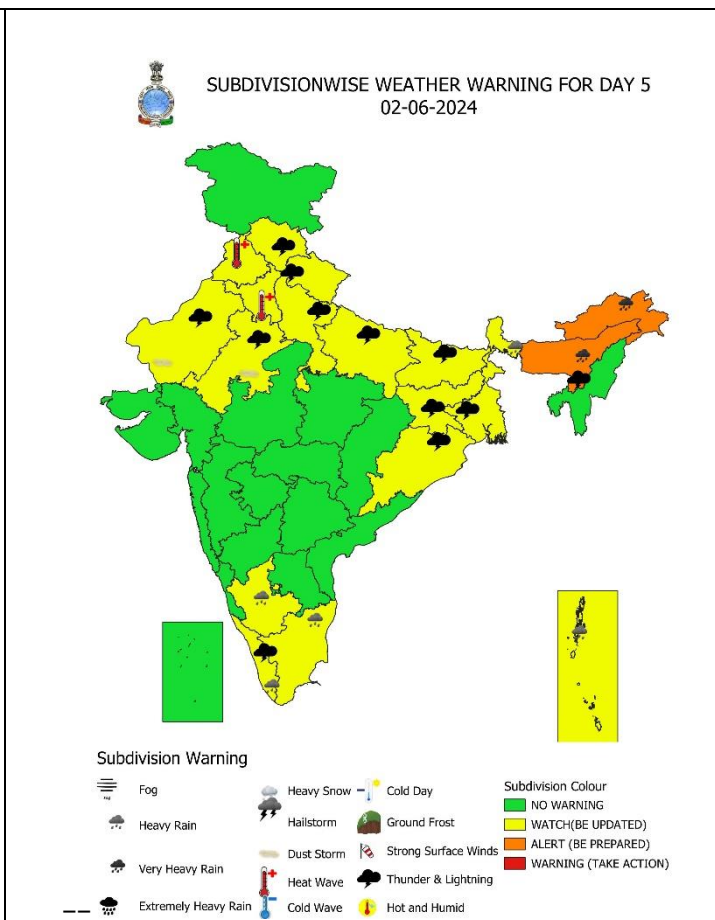
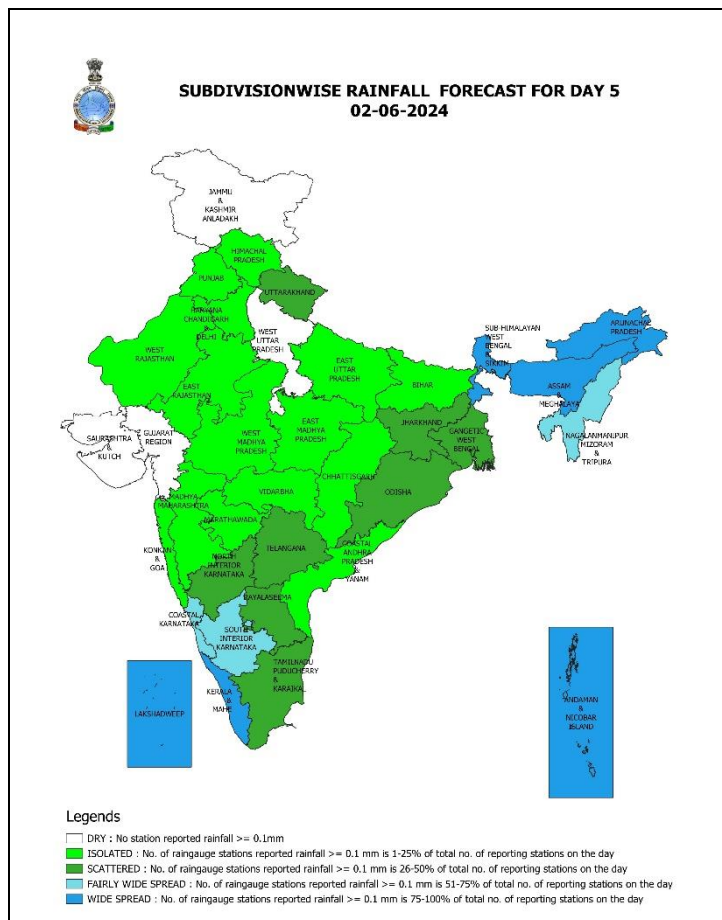
- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya; **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Gangetic West Bengal and Odisha; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Jharkhand and Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, East Uttar Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over East Rajasthan.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets over Punjab, Haryana, West Uttar Pradesh, West Rajasthan, Madhya Pradesh, Bihar and Jharkhand.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Punjab and Haryana.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over Lakshadweep Area, Maldives Area, Comorin Area, Gulf Of Mannar, Along And Off South Kerala And Sri Lanka Coasts, Southeast And Adjoining Southwest Bay Of Bengal. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over Gulf Of Mannar And Adjoining Comorin Area, Southern Parts Of Southwest Bay Of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia Coast, Southwest And Adjoining Westcentral Arabian Sea, Eastern Parts Of Northeast Arabian Sea. Fishermen are advised not to venture into these areas.

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01 June (Day 4):

- ❖ **Heavy to very heavy rainfall** at isolated places over Assam & Meghalaya and Arunachal Pradesh; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Gangetic West Bengal and Odisha; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Jharkhand and Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Uttar Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Rajasthan.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets over Punjab and Haryana.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Punjab and Haryana.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over along and off South Sri Lanka Coast, Southeast Bay of Bengal and Southern Parts of Southwest Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia Coast, Southwest and Adjoining Westcentral Arabian Sea, Eastern Parts of Northeast Arabian Sea. Fishermen are advised not to venture into these areas.

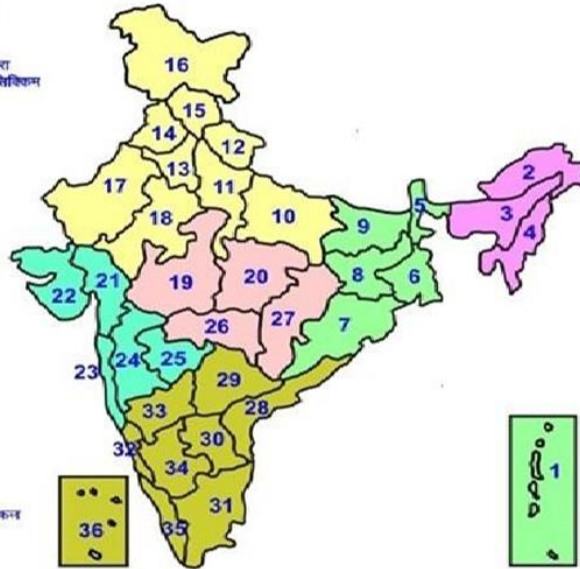


02 June (Day 5):

- ❖ **Heavy to very heavy rainfall** at isolated places over Assam & Meghalaya and Arunachal Pradesh; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Gangetic West Bengal and Odisha; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Jharkhand and Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Uttar Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Rajasthan.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets over Punjab and Haryana.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Punjab and Haryana.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over along and off South Sri Lanka Coast, Southeast Bay of Bengal and Southern Parts of Southwest Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia Coast, Southwest and Adjoining Westcentral Arabian Sea, Eastern Parts of Northeast Arabian Sea. 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 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तेलंगाना
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 आंतरिक उत्तरी कर्नाटक
- 33 आंतरिक दक्षिणी कर्नाटक
- 34 केरल एवं माहे
- 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

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LEGENDS

WARNING

WARNING (TAKE ACTION)
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Probabilistic Forecast

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



Rain/ Snow *

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



Heat Wave

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

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

(b). Based on Actual maximum temperature

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

(c). Criteria for heat wave for coastal stations

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



Warm Night

When maximum temperature remains 40°C

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



Cold Wave

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

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

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

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

(c) For Coastal Stations

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



Cold Day

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

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



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility < 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)