



Thursday, May 18, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- Southwest Monsoon is very likely to advance into some parts of South Bay of Bengal, South Andaman Sea and Nicobar islands during next 24 hours.

Significant Meteorological features:

- ❖ A Western Disturbance as a cyclonic circulation lies over Jammu & Kashmir and another as a trough in middle & upper tropospheric westerlies runs along Long. 59°E to the north of Lat. 28°N.
- ❖ A trough runs from north Bihar to central Chhattisgarh in lower tropospheric levels.
- ❖ A trough/wind discontinuity runs from Vidarbha to south Tamil Nadu in lower tropospheric levels.

Forecast and warning over the country during next 5 days:

Northeast India:

- ❖ Light/moderate widespread rainfall very likely to continue over Northeast India during next 5 days with **heavy rainfall** at isolated places over Arunachal Pradesh during 19th-22nd; Assam & Meghalaya and Manipur, Mizoram & Tripura during 18th to 22nd May and isolated **very heavy falls** also likely over Meghalaya on 18th May, 2023.

Northwest India:

- ❖ **Duststorm/dust raising winds** very likely in isolated pockets over Rajasthan on 18th May, 2023.

East India:

- ❖ Light/moderate isolated to scattered rainfall very likely over East India during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim on 18th May.

South India:

- ❖ Light/moderate isolated to scattered rainfall very likely over extreme south Peninsular India during next 5 days.

No significant weather likely over rest parts of the country.

Maximum Temperature Forecast and Heat Wave Warnings:

- ❖ No significant change in Maximum temperatures are very likely over many parts of Northwest & Central India during next 24 hours and rise by 2-3°C thereafter. No significant change in maximum temperature very likely over rest parts of the country except coastal Andhra Pradesh, where these are likely to fall by 2-3°C.
- ❖ **Heat wave conditions** in isolated pockets very likely over Rajasthan during 20th – 22nd and south Uttar Pradesh on 20th & 21st May.
- ❖ Due to humid air and high temperature, **Hot and Discomfort weather** is very likely over Konkan & Goa during next 5 days; over Rayalaseema, Kerala and Tamilnadu on 18th; Coastal Andhra Pradesh on 18th & 19th May.

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Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hrs IST to 1730 hrs IST of yesterday): **at a few places** over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, East Rajasthan, Odisha, West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant rainfall recorded** (from 0830 hrs IST to 1730 hrs IST of yesterday) (in cm): **Assam:** Majbat-2, Silchar & Dibrugarh-1 each; **Nagaland, Manipur, Mizoram & Tripura:** Agartala-2, Lengpui-1; **Gangetic West Bengal:** Shanti Niketan-2; **Odisha:** Keongjhargarh-2; **Arunachal Pradesh:** Pasighat-1.
- ❖ **Thunderstorm observed** (from 0830 hrs IST of yesterday to 0530 hrs IST of today): at isolated pockets over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Jharkhand, Odisha, Vidarbha, Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ Today, **Heat wave conditions** prevailed in isolated pockets over Coastal Andhra Pradesh.
- ❖ **Minimum Temperature Departures (as on 17-05-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at many places over Coastal Andhra Pradesh & Yanam; at a few places over Uttar Pradesh, Odisha and Andaman & Nicobar Islands and at isolated places over Saurashtra & Kutch, Bihar, Rajasthan and Tamil Nadu, Puducherry & Karaikal. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Madhya Pradesh, Vidarbha, Gangetic West Bengal, Telangana and North Interior Karnataka; **below normal (-1.6°C to -3.0°C)** at many places over Assam & Meghalaya; at a few places over Rayalaseema and Sub-Himalayan West Bengal & Sikkim; at isolated places over Madhya Maharashtra and near normal over rest parts of the country. Yesterday, **the lowest minimum temperature of 19.0°C** was reported at **Raisen (West Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 17-05-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Jharkhand; at a few places over Gangetic West Bengal and South Interior Karnataka; at isolated places over Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at many places over East Uttar Pradesh, Coastal Karnataka, Rayalaseema and Lakshadweep; at a few places over Madhya Maharashtra, Chhattisgarh, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Konkan & Goa and Telangana. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Assam & Meghalaya; at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana, Rajasthan, Madhya Pradesh, Gujarat State and Vidarbha and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 45.0°C** was reported at **Rentachintala (Coastal Andhra Pradesh)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Western Disturbance** as a cyclonic circulation over Jammu & Kashmir between 3.1 & 7.6 km above mean sea level persists.
- ❖ The **cyclonic circulation** over central Pakistan extending upto 1.5 km above mean sea level persists.
- ❖ The **other Western Disturbance** as a trough in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 59°E to the north of Lat. 28°N.
- ❖ The **trough** from north Bihar to central Chhattisgarh extending upto 3.1 km above mean sea level persists.
- ❖ The **trough/wind discontinuity** now runs from Vidarbha to south Tamil Nadu across Telangana and Interior Karnataka at 0.9 km above mean sea level.
- ❖ Southwest Monsoon is very likely to advance into some parts of South Bay of Bengal, South Andaman Sea and Nicobar islands during next 24 hours.

Weather Forecast for next 5 days (Upto 0830 hours IST of 23rd May, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.

Maximum Temperatures Forecast and Heat Wave Warnings:

- ❖ **Northwest India:** No significant change in Maximum temperatures likely during next 2 days and rise by 2-3°C thereafter.
- ❖ **Central India:** Rise in maximum temperatures by 2-3°C likely during next 4-5 days.
- ❖ **West India:** Rise in maximum temperatures by 2-3°C likely over Maharashtra during next 5 days.
- ❖ No significant change in Maximum temperatures likely over rest parts of the country.

Weather Outlook for subsequent 2 days (During 23rd-25th May, 2023)

- ❖ Fairly widespread to widespread light/moderate rainfall likely to continue over northeast India
- ❖ Isolated to Scattered rainfall over Northwest India and isolated rainfall over south peninsular India and Islands.
- ❖ Dry weather over rest parts of the country.

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Weather Warning during next 5 days

18 May (Day 1): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Gangetic West Bengal, Odisha; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jharkhand, Bihar, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe.

♦ **Hailstorm with thunderstorm, lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Uttarakhand.

♦ **Dust Storm/Thunderstorm with gusty winds (speed 30-40 kmph)** very likely in isolated pockets over Rajasthan.

19 May (Day 2): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Jharkhand, Gangetic West Bengal; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Bihar; **with lightning** at isolated places over Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

20 May (Day 3): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, and Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Gangetic West Bengal, Jharkhand; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Bihar; **with lightning** at isolated places over Odisha and Kerala & Mahe.

♦ **Heat wave conditions** likely in isolated pockets over Rajasthan and south Uttar Pradesh.

21 May (Day 4): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, and Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand; **with lightning** at isolated places over Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Heat wave conditions** likely in isolated pockets over Rajasthan and south Uttar Pradesh.

22 May (Day 5): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Bihar; **with lightning** at isolated places over Coastal & South Interior Karnataka, Rayalaseema and Kerala & Mahe.

♦ **Heat wave conditions** likely in isolated pockets over Rajasthan and East Uttar Pradesh.



Table-1

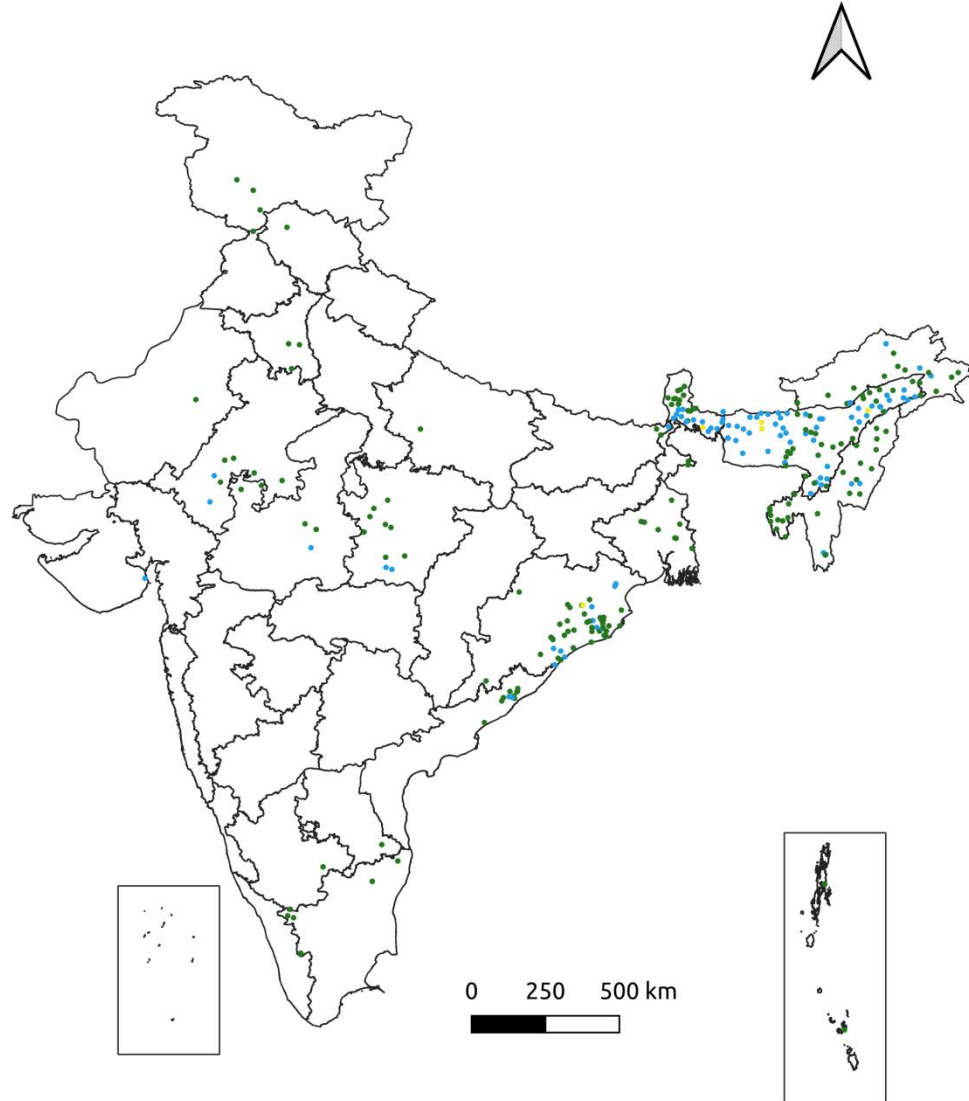
5 Day Rainfall Forecast						
S. No.	Subdivision	18-May	19-May	20-May	21-May	22-May
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	FWS	WS	WS	WS	WS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	WS	WS	WS	WS
5	SUB-HIMALAYAN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

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

Fig. 1: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 16-5-2023 to 0830 IST of 17-5-2023



Legends

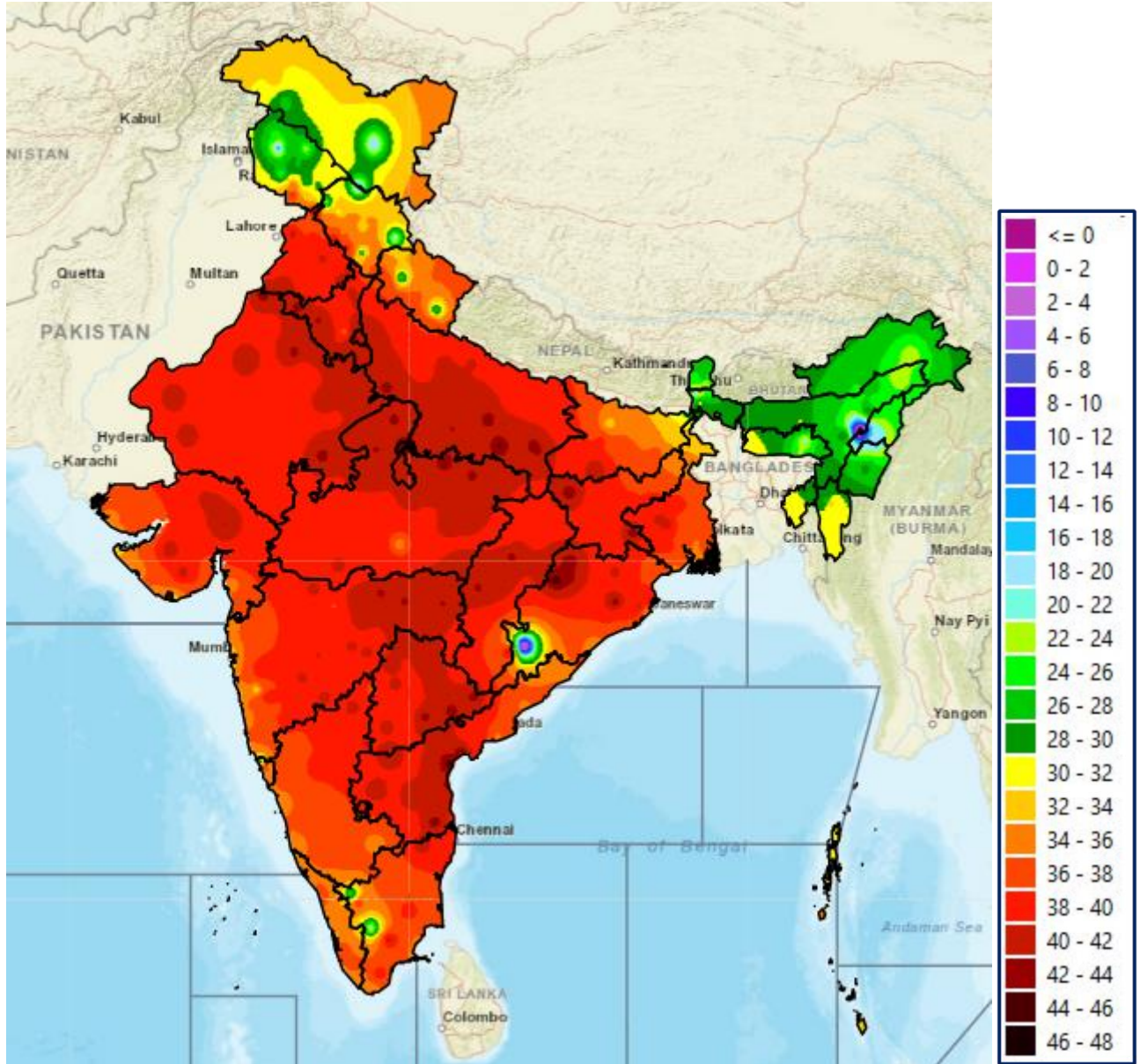
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

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Fig. 2: Maximum Temperatures Dated 17.05.2023



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Fig. 3: Minimum Temperatures Dated 17.05.2023

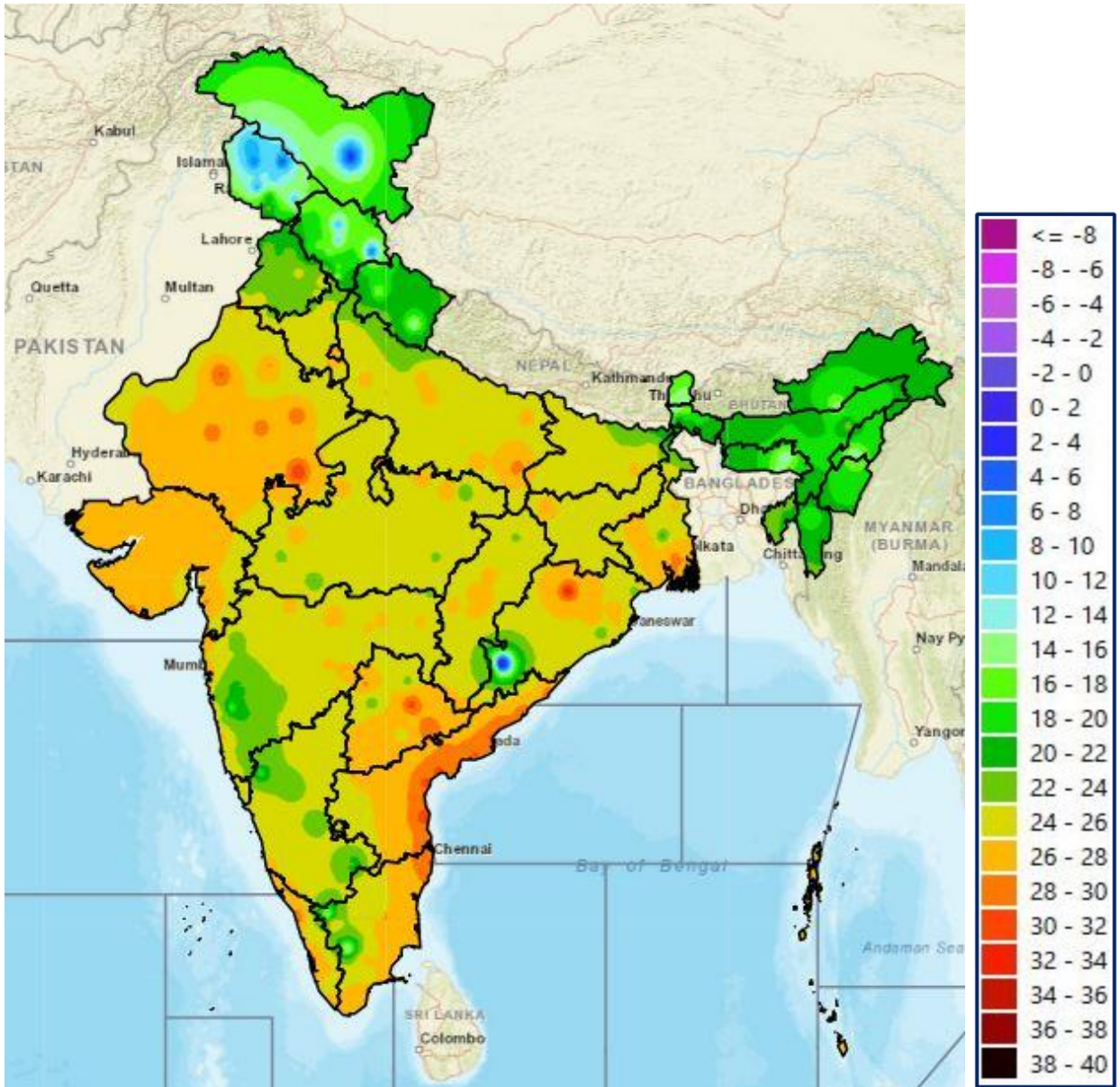
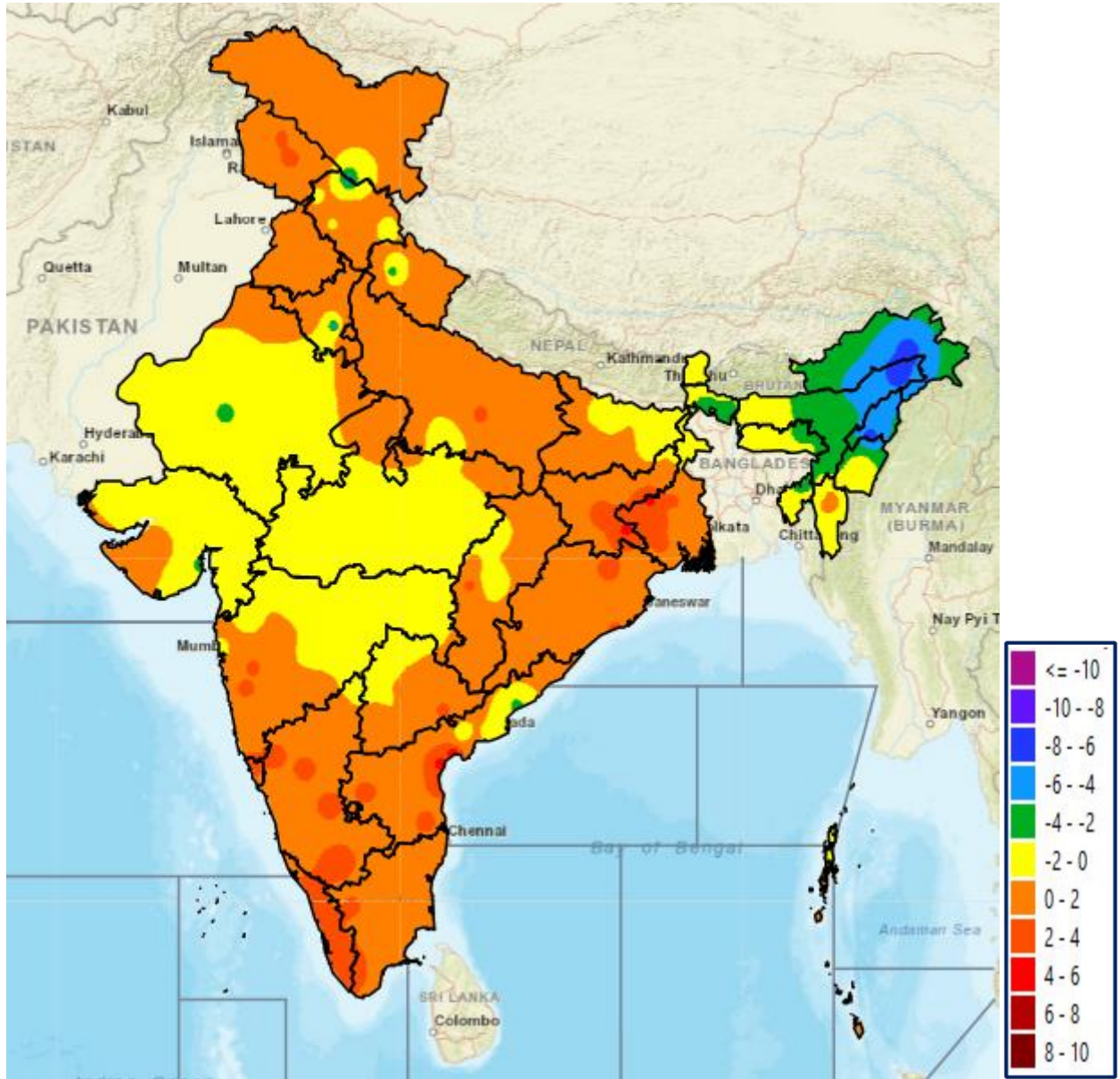


Fig. 4: Departure from Normal of Maximum Temperatures Dated 17.05.2023

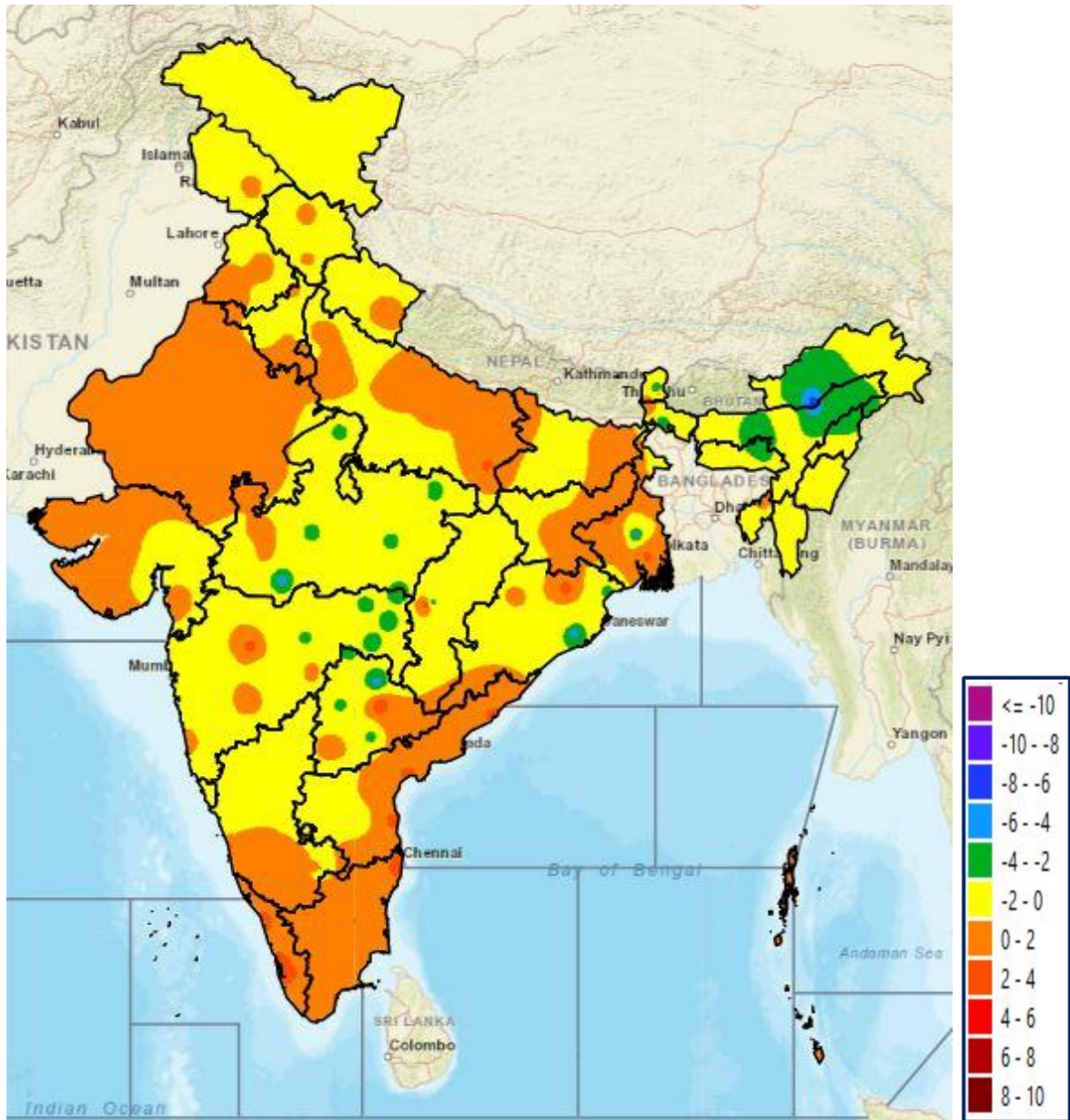


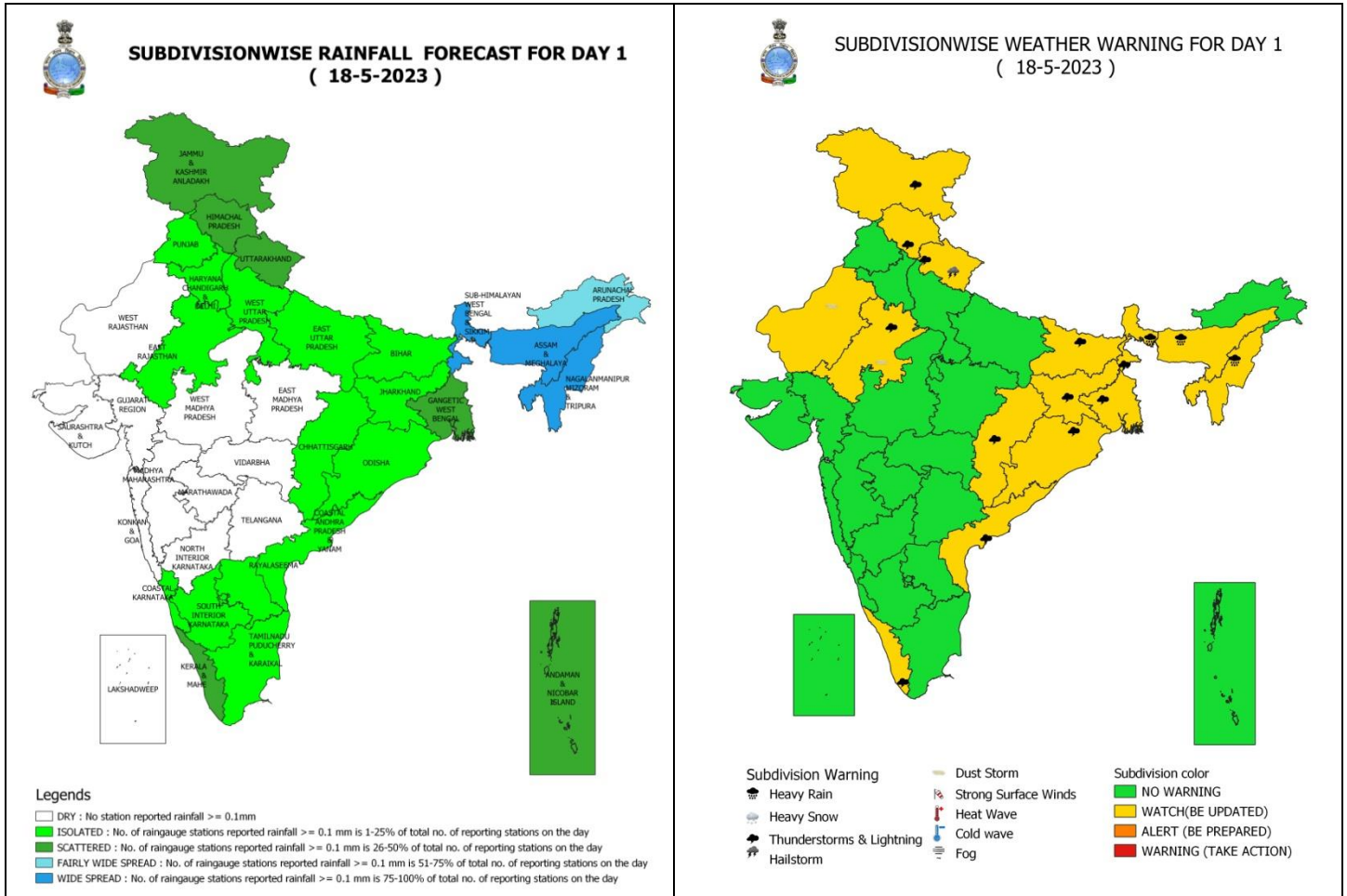
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Fig. 5: Departure from Normal of Minimum Temperatures Dated 17.05.2023





18 May (Day 1): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Gangetic West Bengal, Odisha; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jharkhand, Bihar, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe.

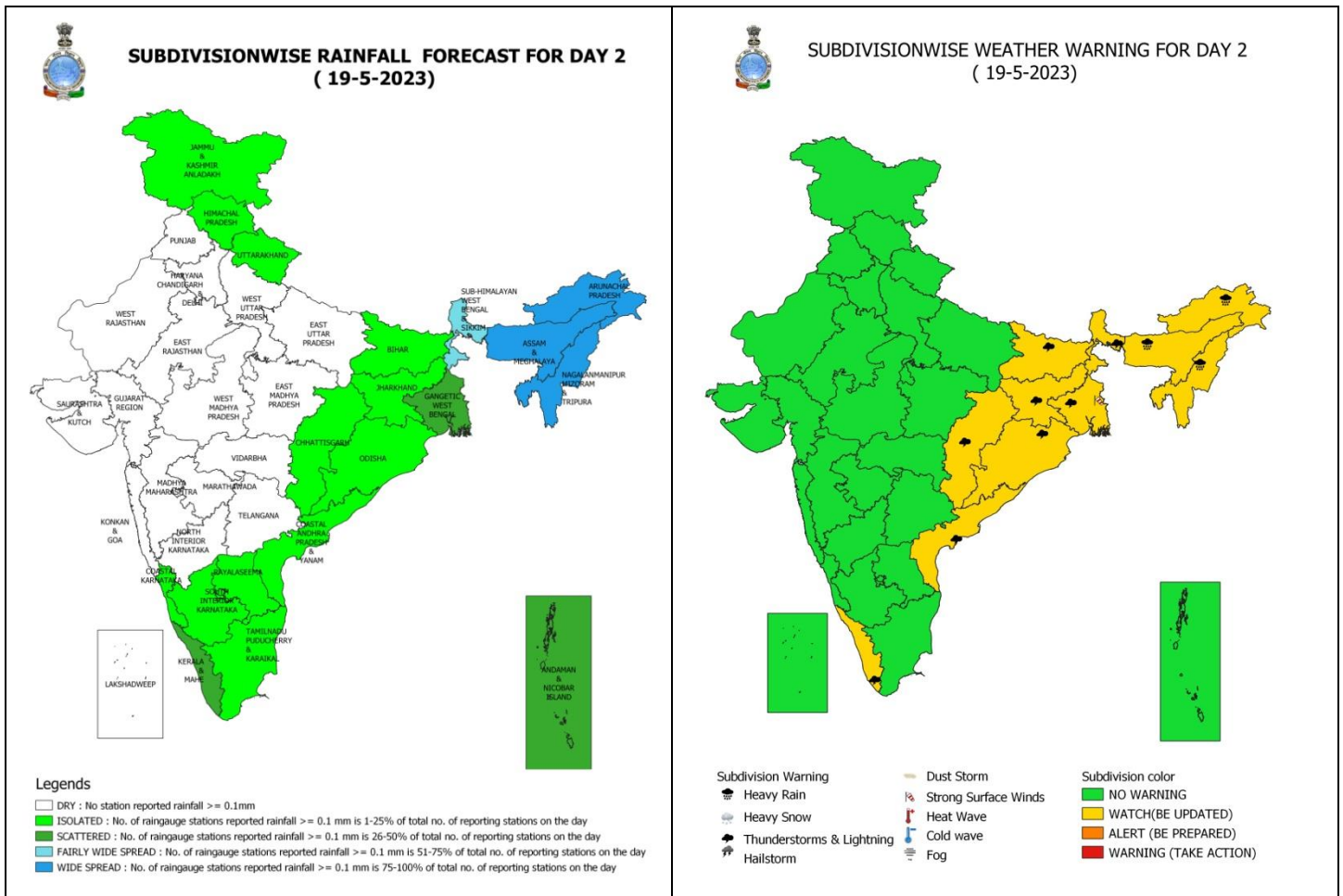
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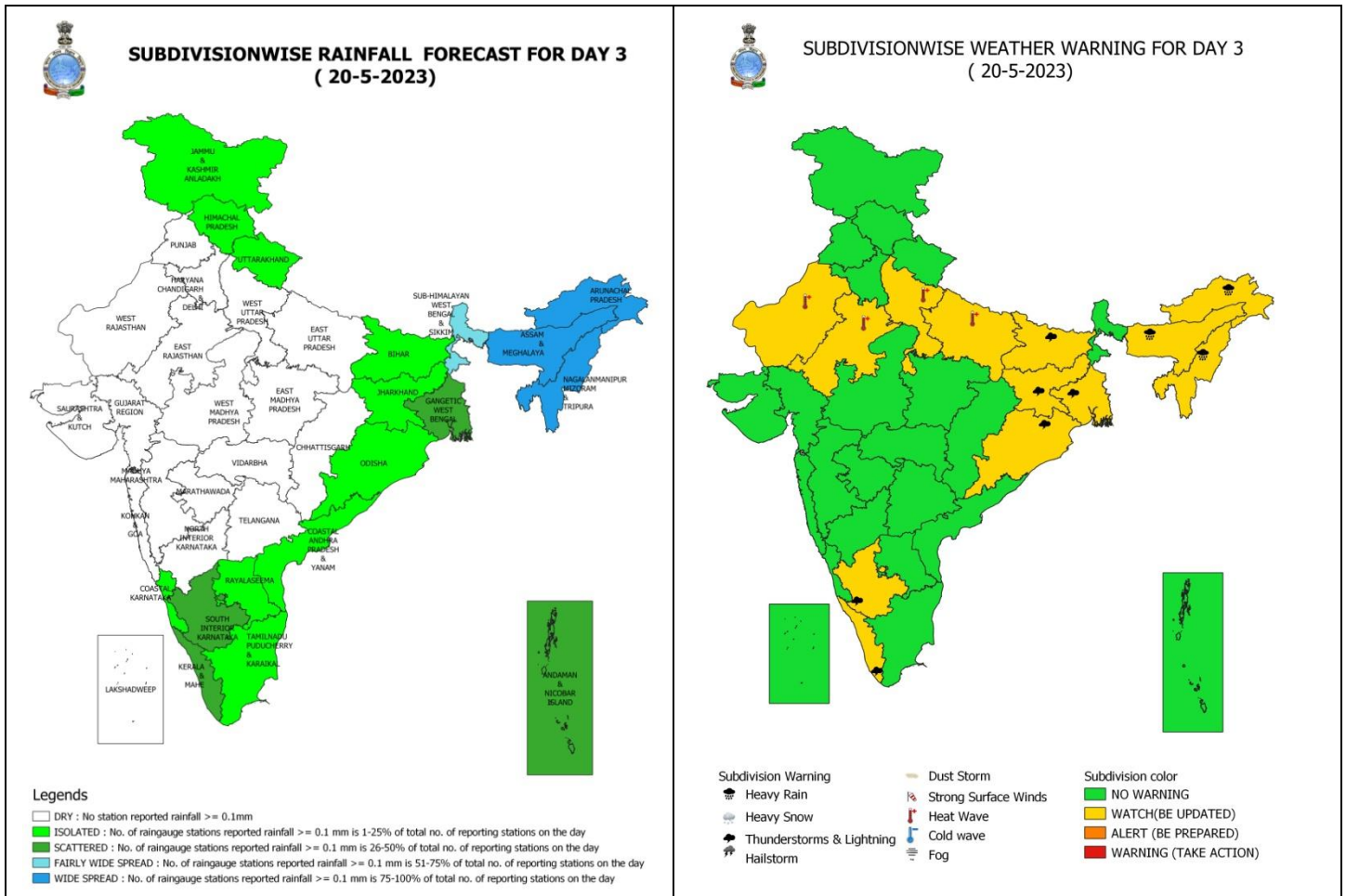
19 May (Day 2): ♦ Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

♦ Thunderstorm with lightning & gusty winds (speed 40-50 kmph) very likely at isolated places over Jharkhand, Gangetic West Bengal; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Bihar; with lightning at isolated places over Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

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20 May (Day 3): ♦ Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, and Manipur, Mizoram & Tripura.

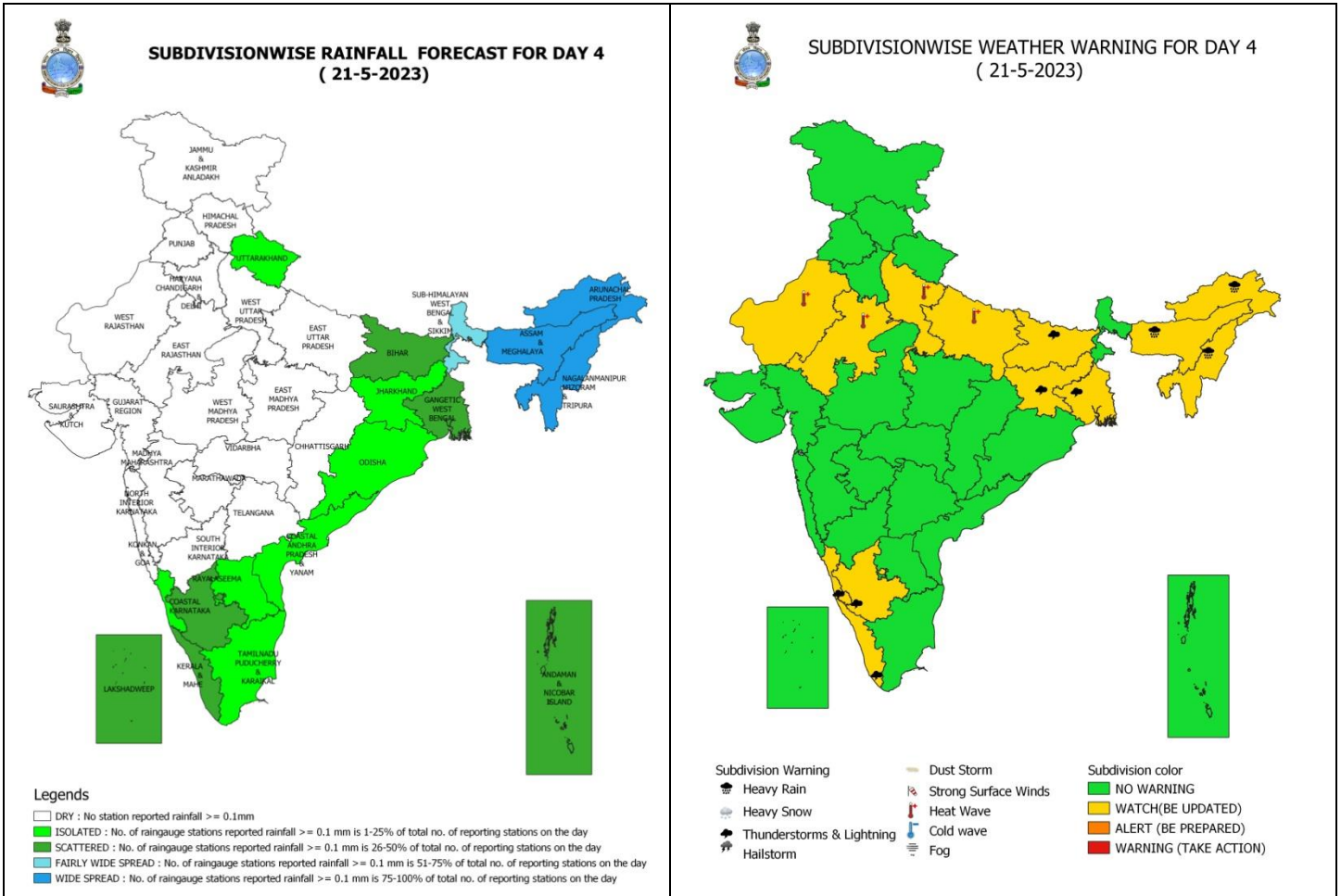
♦ Thunderstorm with lightning & gusty winds (speed 40-50 kmph) likely at isolated places over Gangetic West Bengal, Jharkhand; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Bihar; with lightning at isolated places over Odisha and Kerala & Mahe.

♦ Heat wave conditions likely in isolated pockets over Rajasthan and south Uttar Pradesh.

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21 May (Day 4): ♦ Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, and Manipur, Mizoram & Tripura.

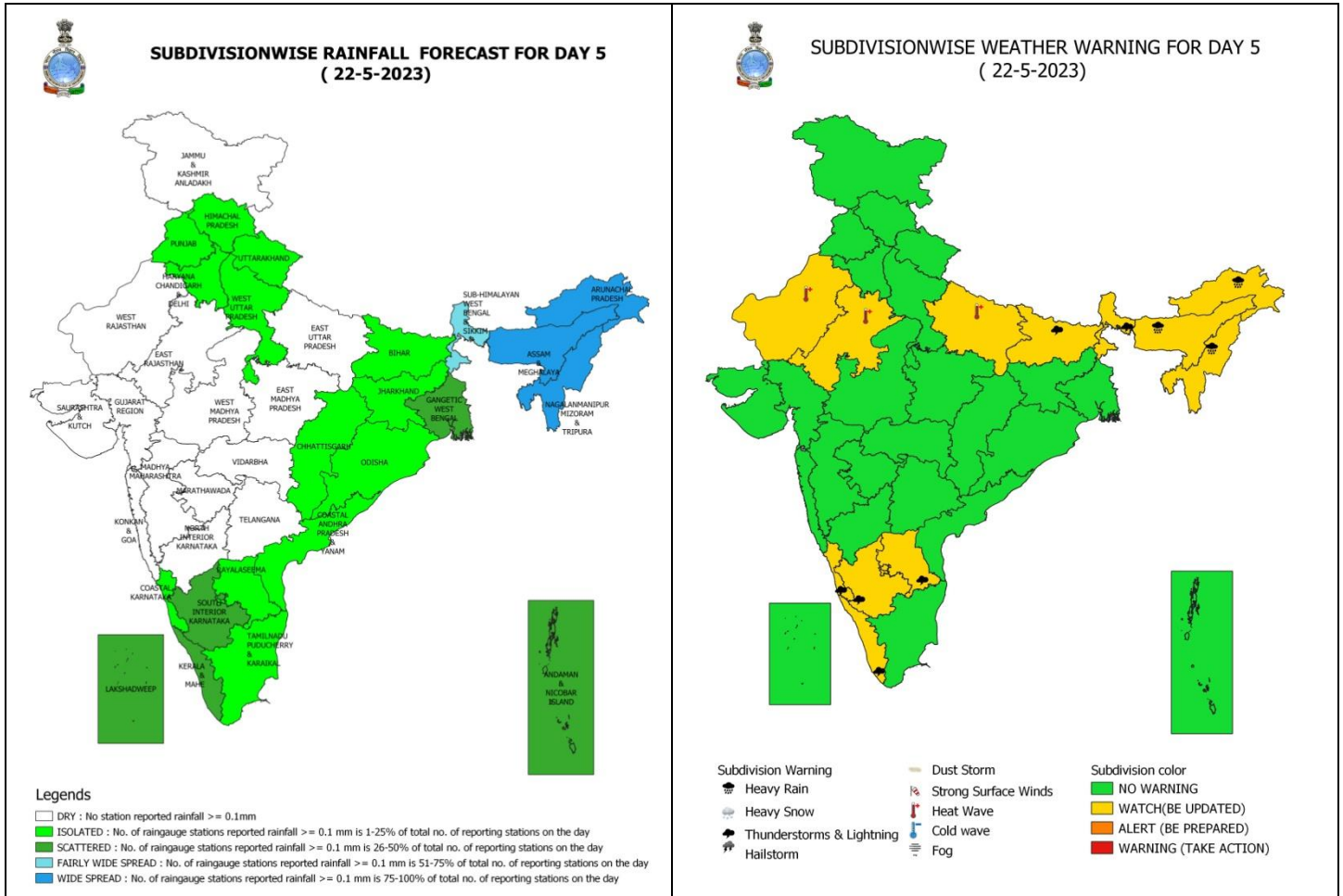
♦ Thunderstorm with lightning & gusty winds (speed 30-40 kmph) likely at isolated places over Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand; with lightning at isolated places over Coastal & South Interior Karnataka and Kerala & Mahe.

♦ Heat wave conditions likely in isolated pockets over Rajasthan and south Uttar Pradesh.

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22 May (Day 5): ♦ Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Bihar; **with lightning** at isolated places over Coastal & South Interior Karnataka, Rayalaseema and Kerala & Mahe.

♦ **Heat wave conditions** likely in isolated pockets over Rajasthan and East Uttar Pradesh.

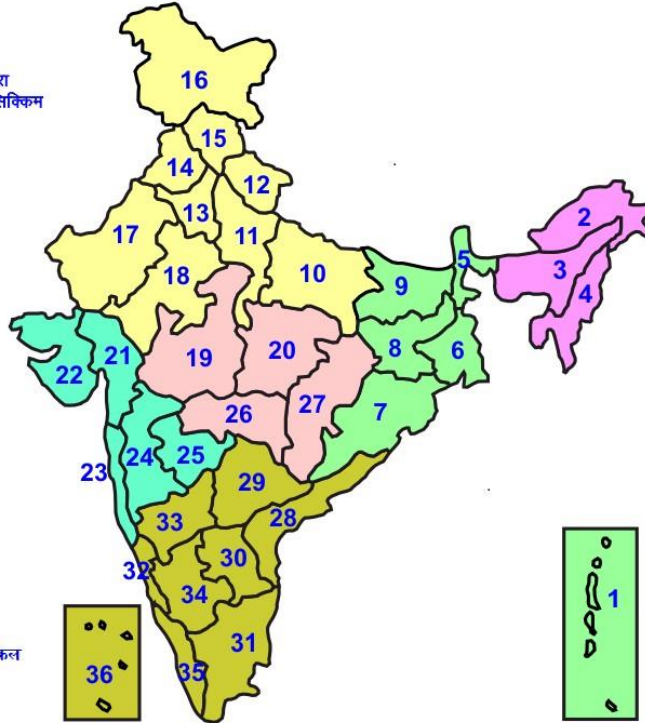
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गॉंगेय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ 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 क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवंम 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. Orissa
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. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

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

WARNING

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

Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

* Red color warning does not mean "Red Alert" Red color 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

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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)

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