



Friday, June 23, 2023
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 (NLM) passes through Lat. 16.5°N/ Long. 55°E, Lat. 17.0°N/ Long. 60°E, Lat. 17°N/ Long. 65°E, Lat. 17°N/ Long. 70°E, Ratnagiri, Raichur, Khammam, Malkangiri, Paralakhemundi, Lat. 21.5°N/Long. 87.5°E, Haldia, Bokaro, Patna, Raxaul and Lat. 28°N/ Long. 84°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon over some more parts of south Peninsular India, remaining parts of Odisha, Gangetic West Bengal, Jharkhand and Bihar and some parts of Chhattisgarh, Uttar Pradesh, Uttarakhand, Madhya Pradesh during next 2 days.

Significant Weather features, Forecast and Warning during next 5 days:

Northeast & adjoining East India:

- ❖ Light/moderate rainfall at most places with isolated thunderstorm & lightning very likely during next 5 days.
- ❖ Isolated **Heavy to Very Heavy falls** over Assam & Meghalaya on 23rd; Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh on 23rd June.
- ❖ Isolated **heavy rainfall** also likely over Bihar on 23rd; Gangetic West Bengal on 25th; and Odisha till 26th with isolated **Very Heavy falls** over Odisha 23rd -25th June.

Northwest India:

- ❖ Light/moderate fairly widespread rainfall with isolated thunderstorm & lightning over Himachal Pradesh, Uttarakhand, Uttar Pradesh during 23rd-25th and over plains of Northwest India from 25th June.
- ❖ Isolated **heavy/very rainfall** very likely over Uttarakhand during 23rd-27th; Himachal Pradesh during 24th-27th; Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh during 25th -27th June.

Central India:

- ❖ Light/moderate scattered to fairly widespread rainfall with isolated thunderstorm & lightning over the region during next 5 days.
- ❖ Isolated **heavy to very rainfall** very likely over Madhya Pradesh and Chhattisgarh during 23rd-27th; and Vidarbha during 24th-27th June.

South India:

- ❖ Light/moderate scattered to fairly widespread rainfall with isolated thunderstorm & lightning very likely over the region during next 5 days.
- ❖ **Isolated Heavy rainfall** also likely over Coastal Andhra Pradesh during 23rd -24th, Coastal Karnataka & Telangana during 23rd -26th and Interior Karnataka on 25th & 26th June.

West India:

- ❖ Light/moderate isolated to scattered rainfall with isolated thunderstorm & lightning very likely over Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat Region during 23rd-25th June.
- ❖ **Isolated Heavy rainfall** also likely over Konkan & Goa during 23rd-27th; over Madhya Maharashtra and Gujarat Region on 25th & 26th June.

Heat Wave:

Yesterday's Heat Wave conditions had abated from the entire country. However, **Maximum Temperatures** were in the range of 38°C-40°C at some places over south Bihar, southeast Uttar Pradesh, northeast Madhya Pradesh, Vidarbha, Telangana and south Madhya Maharashtra with departure of 3°C-4°C above from normal.

Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places over** Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **at a few places over** Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Gangetic West Bengal, Odisha, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep and **at isolated places over** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh, West Uttar Pradesh, Bihar, Arunachal Pradesh, Sub-Himalaya West Bengal & Sikkim, Gujarat Region, Madhya Maharashtra, Vidarbha, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Odisha.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): **Odisha:** Bhubaneshwar-9, Gopalpur-4; **Gangetic West Bengal:** Krishnanagar-5; **Coastal Andhra Pradesh:** Nandigama-5; **Uttarakhand:** Dehradun-4; **Coastal Karnataka:** Shirali-4; **Tamil Nadu:** Namgambakkam-4; **East Madhya Pradesh:** Seoni-3; **Vidarbha:** Gondia-3; **West Uttar Pradesh:** Jhansi-2; **East Uttar Pradesh:** Varanasi-2; **Chhattisgarh:** Pendra Road-2.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Himachal Pradesh, Uttarakhand Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Odisha, Bihar, East Rajasthan, West Uttar Pradesh, Vidarbha, Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, West Bengal & Sikkim, Telangana, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- ❖ **Yesterday's Heat Wave conditions have abated from the entire country.** However, **Maximum Temperatures** were in the range of 38°C-40°C at some places over south Bihar, southeast Uttar Pradesh, northeast Madhya Pradesh, Vidarbha, Telangana and south Madhya Maharashtra with departure of 3°C-4°C above from normal.
- ❖ **Minimum Temperature Departures (as on 22-06-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Vidarbha and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Marathwada and North Interior Karnataka and at isolated places over Odisha, East Madhya Pradesh and Madhya Maharashtra; **above normal (1.6°C to 3.0°C)** at most places over Himachal Pradesh; at many places over Punjab, Konkan & Goa and Lakshadweep; at a few places over West Uttar Pradesh and Gangetic West Bengal and at isolated places over West Rajasthan, East Uttar Pradesh, Kerala & Mahe and Andaman & Nicobar Islands. They were **below normal (-1.6°C to -3.0°C)** at a few places over West Madhya Pradesh and Assam & Meghalaya; at isolated places over Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 20.0°C was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 22-06-2023):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Madhya Maharashtra; at isolated places over Vidarbha; **appreciably above normal (3.1°C to 5.0°C)** at most places over Jharkhand, Marathwada and North Interior Karnataka; at many places over Konkan & Goa and Telangana; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Chhattisgarh and East Madhya Pradesh; at isolated places over Odisha; **above normal (1.6°C to 3.0°C)** at many places over South Interior Karnataka, Kerala & Mahe and Lakshadweep; a few places over East Uttar Pradesh and Gangetic West Bengal. They were **markedly below normal (-5.1°C or less)** at isolated places over East Uttar Pradesh and Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over East Rajasthan, Haryana, Chandigarh & Delhi and Assam & Meghalaya; at isolated places over West Rajasthan and West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Sub-Himalaya West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal; at isolated places over Arunachal Pradesh and Saurashtra & Kutch and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 43.3°C was reported at **Ganganagar (West Rajasthan)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Northern Limit of Monsoon (NLM)** continues to pass through Lat. 16.5°N/ Long. 55°E, Lat. 17.0°N/ Long. 60°E, Lat. 17°N/ Long. 65°E, Lat. 17°N/ Long. 70°E, Ratnagiri, Raichur, Khammam, Malkangiri, Paralakhemundi, Lat. 21.5°N/Long. 87.5°E, Haldia, Bokaro, Patna, Raxaul and Lat. 28°N/ Long. 84°E.
- ❖ Conditions are favourable for **further advance of Southwest Monsoon** over some more parts of south Peninsular India, remaining parts of Odisha, Gangetic West Bengal, Jharkhand and Bihar and some parts of Chhattisgarh, Uttar Pradesh, Uttarakhand, Madhya Pradesh during next 2 days.
- ❖ The cyclonic circulation over central parts of Uttar Pradesh extending upto middle tropospheric levels persists.
- ❖ The trough from south Punjab to the above cyclonic circulation over central parts of Uttar Pradesh extending upto 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over west-central & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts between 3.1 & 5.8 km above mean sea level tilting southwards with height persists.
- ❖ The east-west shear zone roughly along lat. 14°N at 5.8 km above mean sea level persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 28th June, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ **Maximum Temperatures Forecast:**
- ❖ **West, Central & East India:** Fall by 3-5°C in maximum temperatures very likely during next 5 days.

Weather Outlook for subsequent 2 days (During 28th-30th June, 2023)

- ❖ Fairly widespread to widespread light/moderate rainfall with thunderstorm likely to continue over northeast India, central India, Western Himalayan Region along the west coast and islands.
- ❖ Isolated to scattered rainfall over remaining part of the country India.



Weather Warning during next 5 days

23 June (Day 1): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Odisha and **heavy rainfall** at isolated places over Uttarakhand, Haryana, East Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalaya West Bengal & Sikkim, Bihar, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Telangana.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Coastal Andhra Pradesh & Yanam; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph very likely over westcentral & southwest Arabian Sea and Gulf of Mannar. **Squally weather speed reaching 45-55 kmph gusting to 65 kmph** very likely along & off Kerala-Karnataka-Goa-Konkan & Andhra Pradesh coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

24 June (Day 2): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Odisha and Uttarakhand and **heavy rainfall** at isolated places over Assam & Meghalaya, Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Telangana.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Karnataka, Kerala & Mahe.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over westcentral & southwest Arabian Sea and Gulf of Mannar. **Squally weather speed reaching 45-55 kmph gusting to 65 kmph** very likely along & off Kerala-Karnataka-Maharashtra coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.



25 June (Day 3): ♦ **Heavy to very heavy rainfall** likely at isolated places over Odisha, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Telangana and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Punjab, Haryana-Chandigarh, Uttar Pradesh, East Rajasthan, Vidarbha, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Karnataka, Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over westcentral & southwest Arabian Sea and Gulf of Mannar. **Squally weather speed reaching 45-55 kmph gusting to 65 kmph** very likely along & off Kerala-Karnataka-Maharashtra coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

26 June (Day 4): ♦ **Heavy to very heavy rainfall** likely at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Vidarbha, Telangana and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Gangetic West Bengal, Punjab, Haryana-Chandigarh, Uttar Pradesh, East Rajasthan, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Karnataka, Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over westcentral & southwest Arabian Sea and Gulf of Mannar. **Squally weather speed reaching 45-55 kmph gusting to 65 kmph** very likely along & off Kerala-Karnataka-Maharashtra coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

27 June (Day 5): ♦ **Heavy to very heavy rainfall** likely at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Vidarbha, Telangana and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Gangetic West Bengal, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, East Rajasthan, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over westcentral & southwest Arabian Sea and Gulf of Mannar. **Squally weather speed reaching 45-55 kmph gusting to 65 kmph** very likely along & off Kerala-Karnataka-Maharashtra coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.



Table-1

5 Day Rainfall Forecast

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

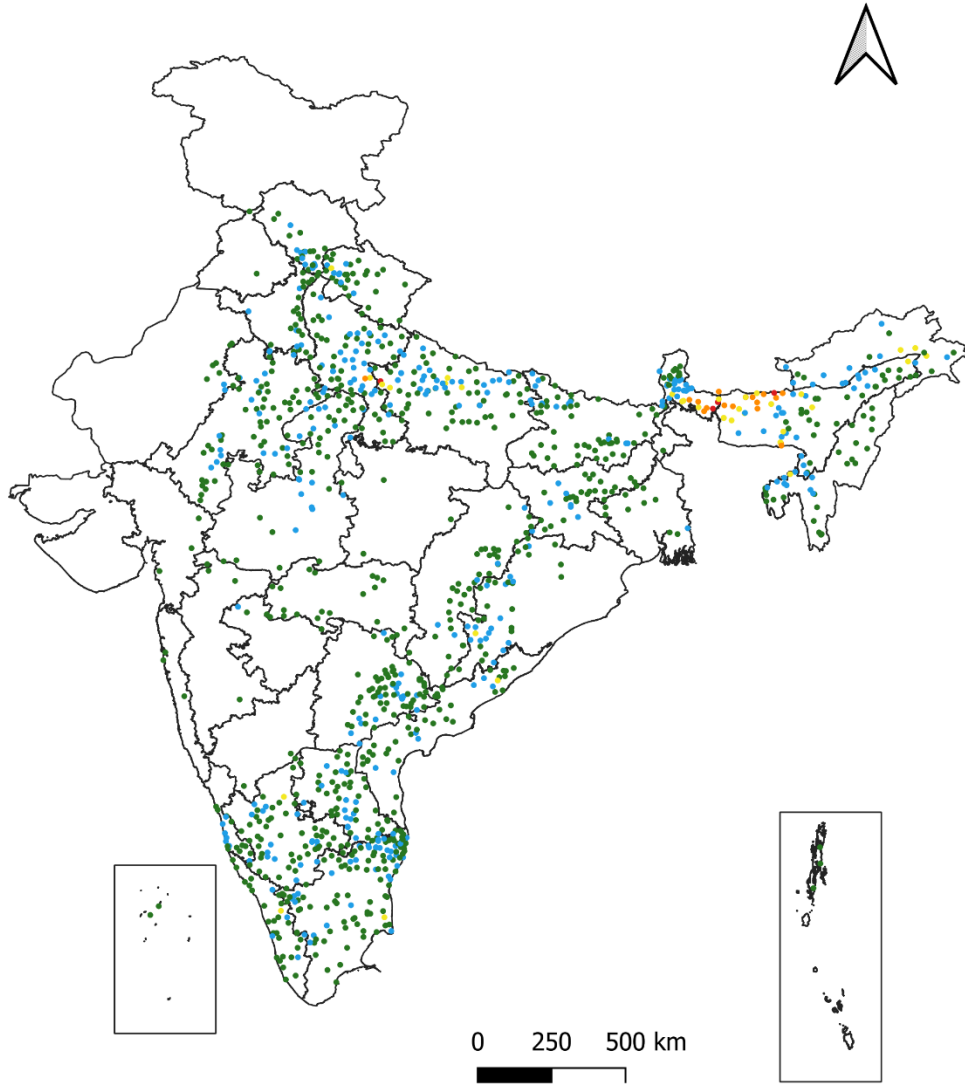
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0



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



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 21-6-2023 to 0830 IST of 22-6-2023

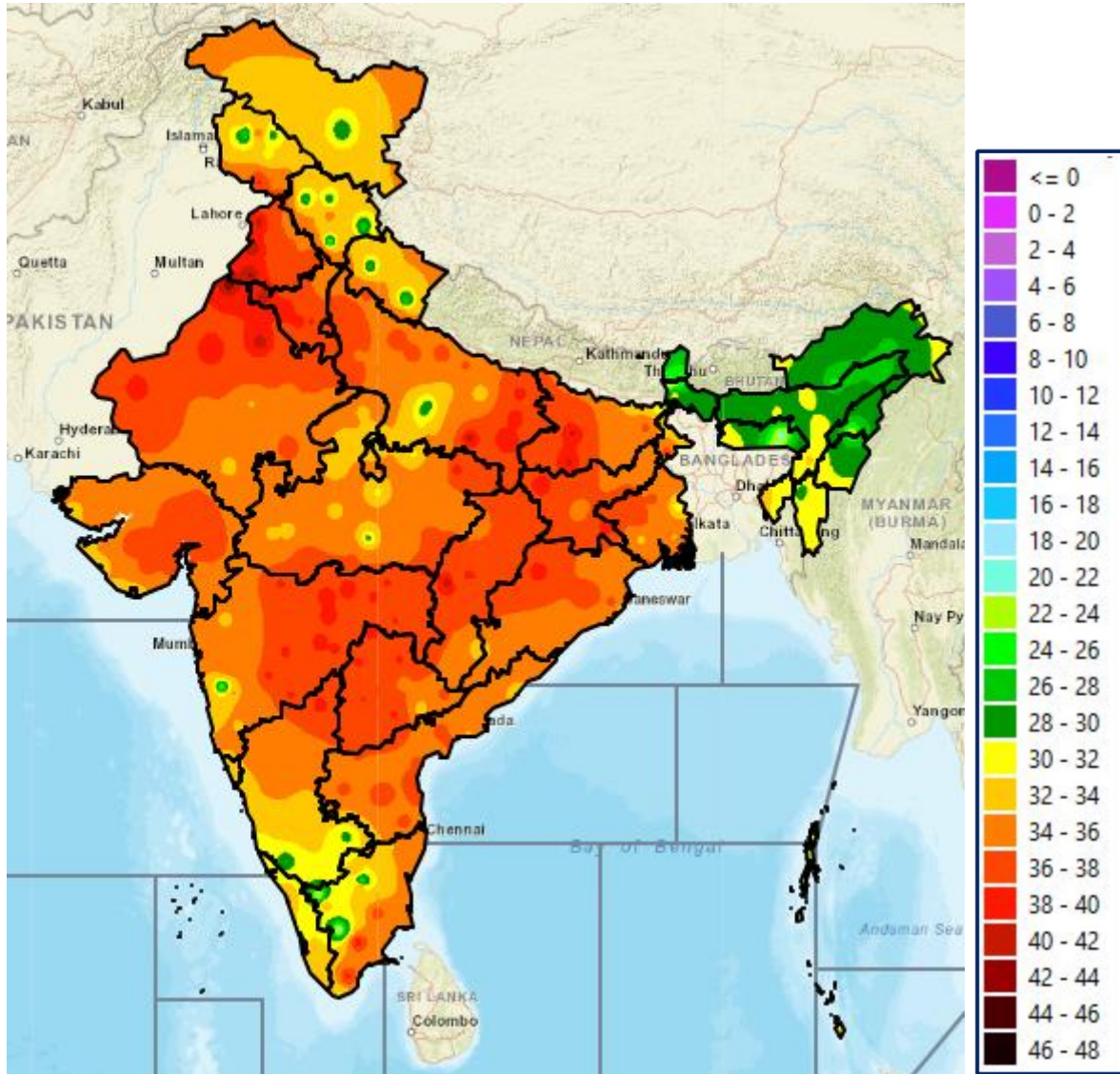


Legends

- 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)

Fig. 2: Maximum Temperatures Dated 22.06.2023

* 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 For
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Fig. 3: Minimum Temperatures Dated 22.06.2023

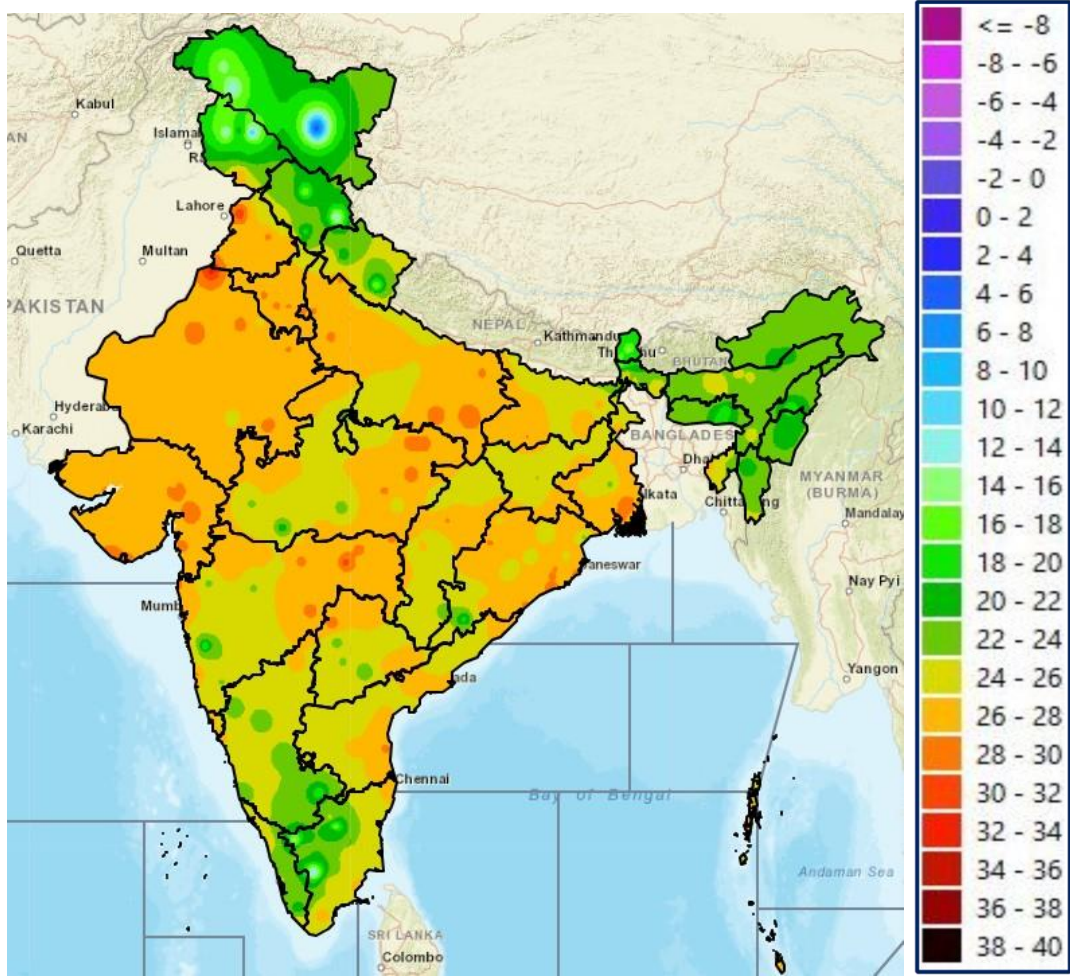
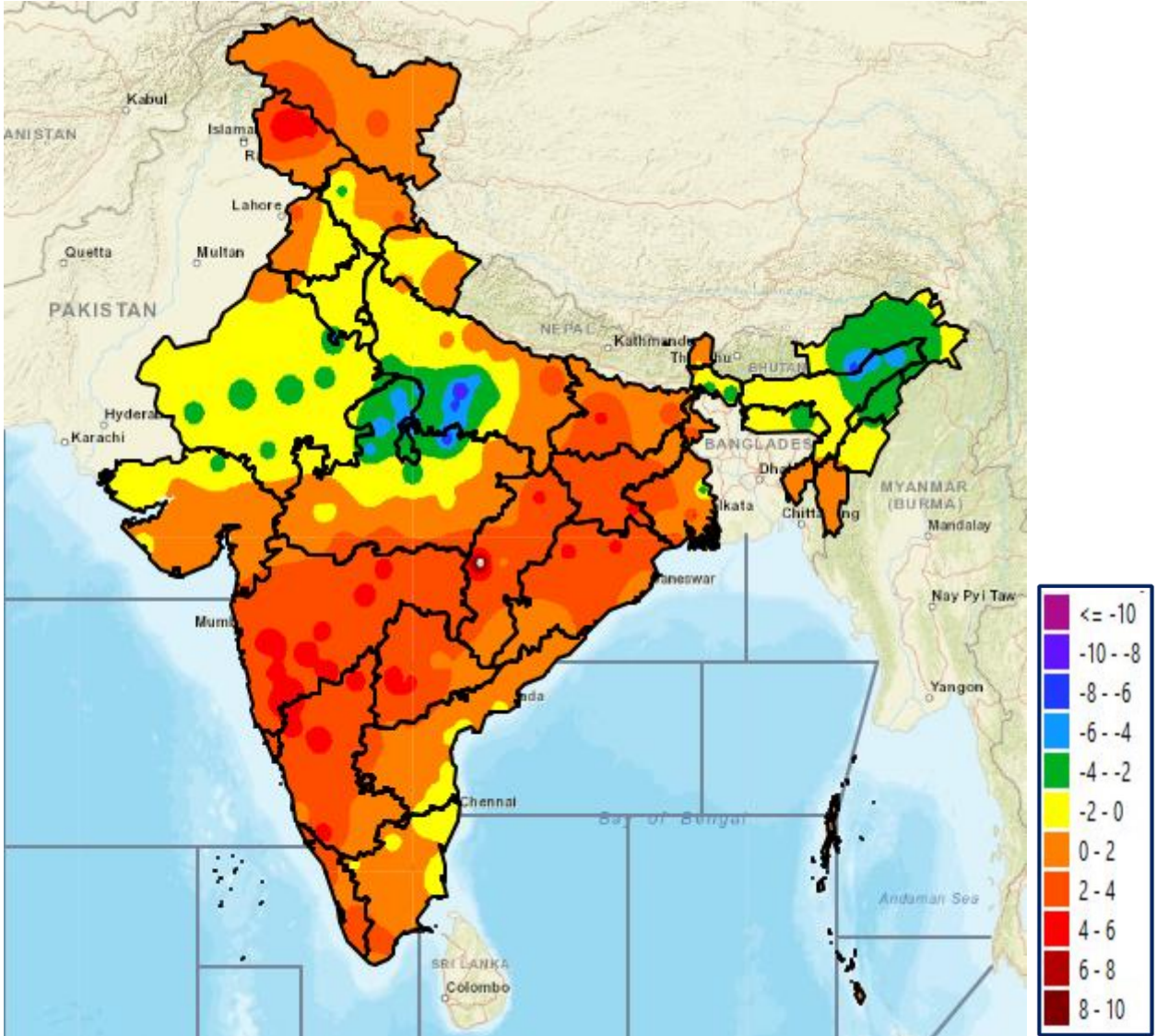


Fig. 4: Departure from Normal of Maximum Temperatures Dated 22.06.2023



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Fig. 5: Departure from Normal of Minimum Temperatures Dated 22.06.2023

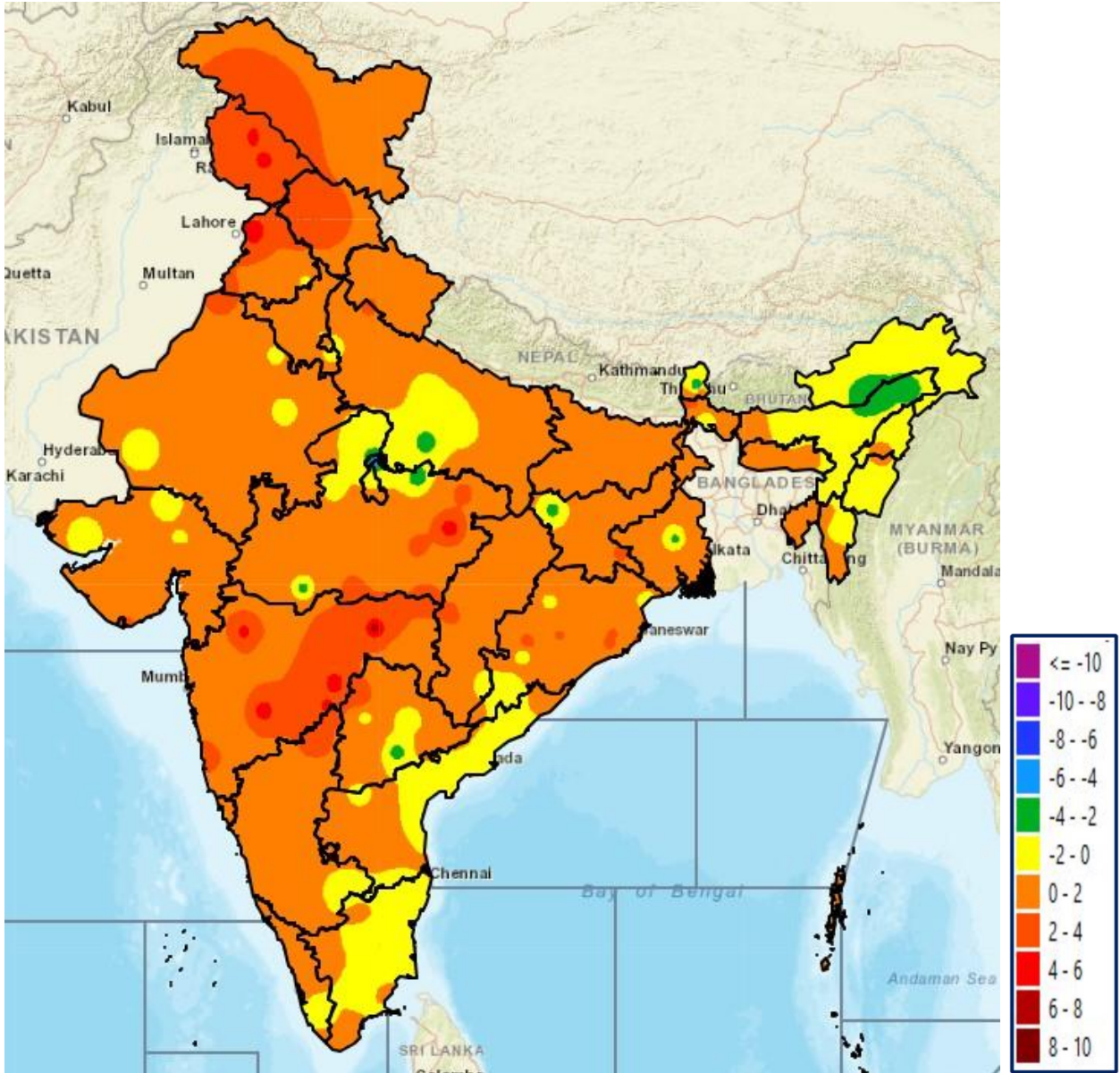
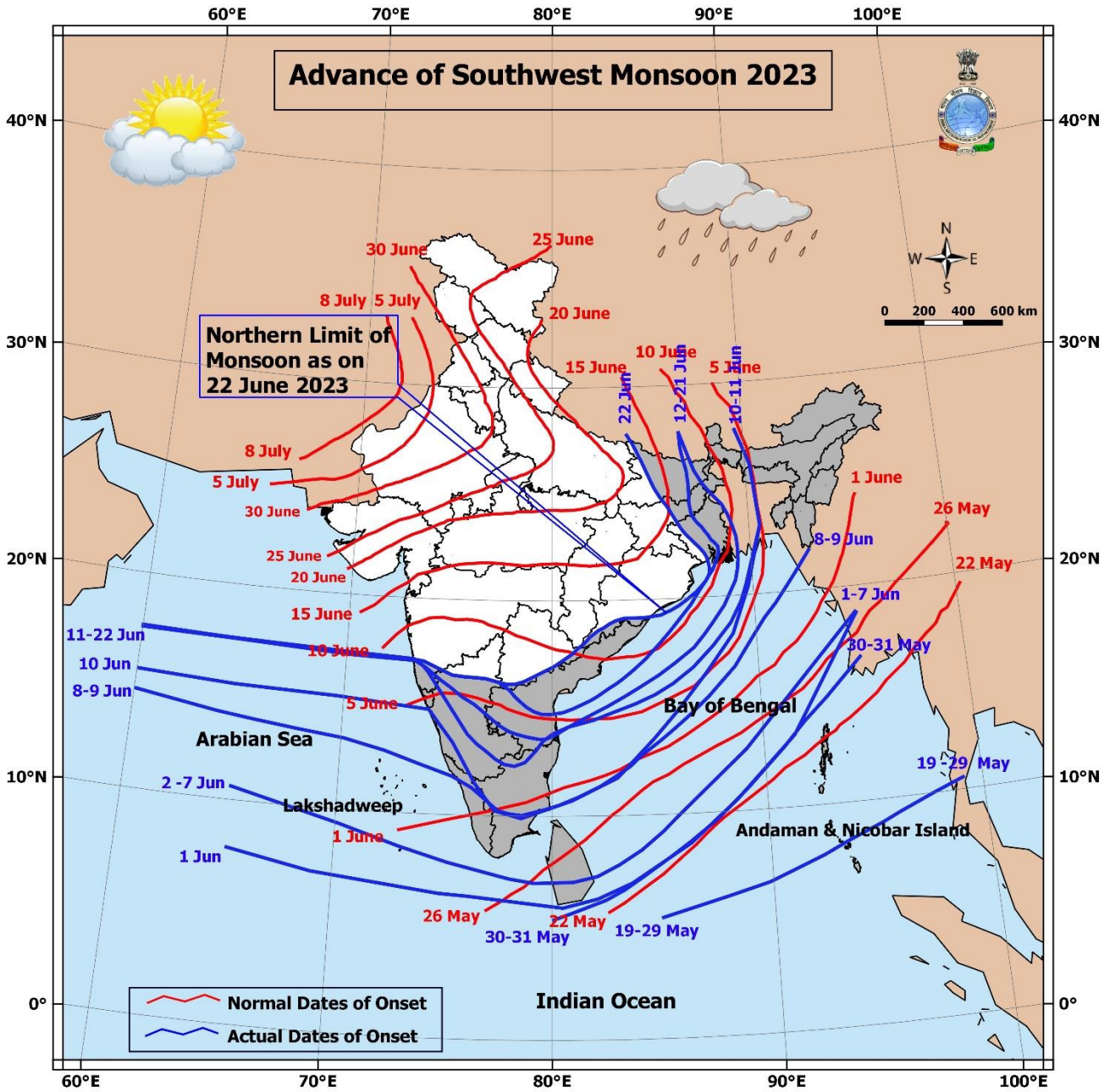
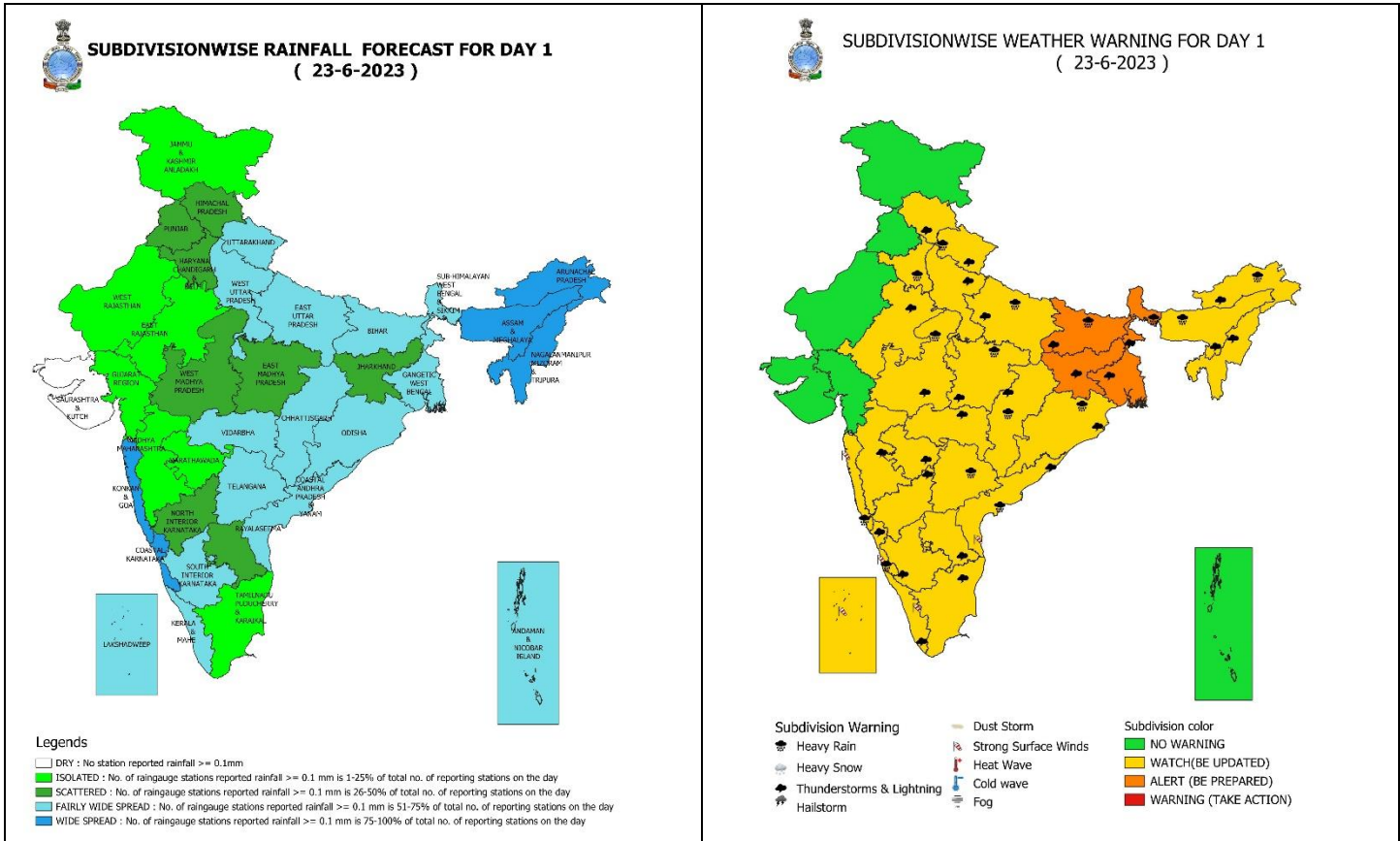




Fig. 6: Advance of Southwest Monsoon



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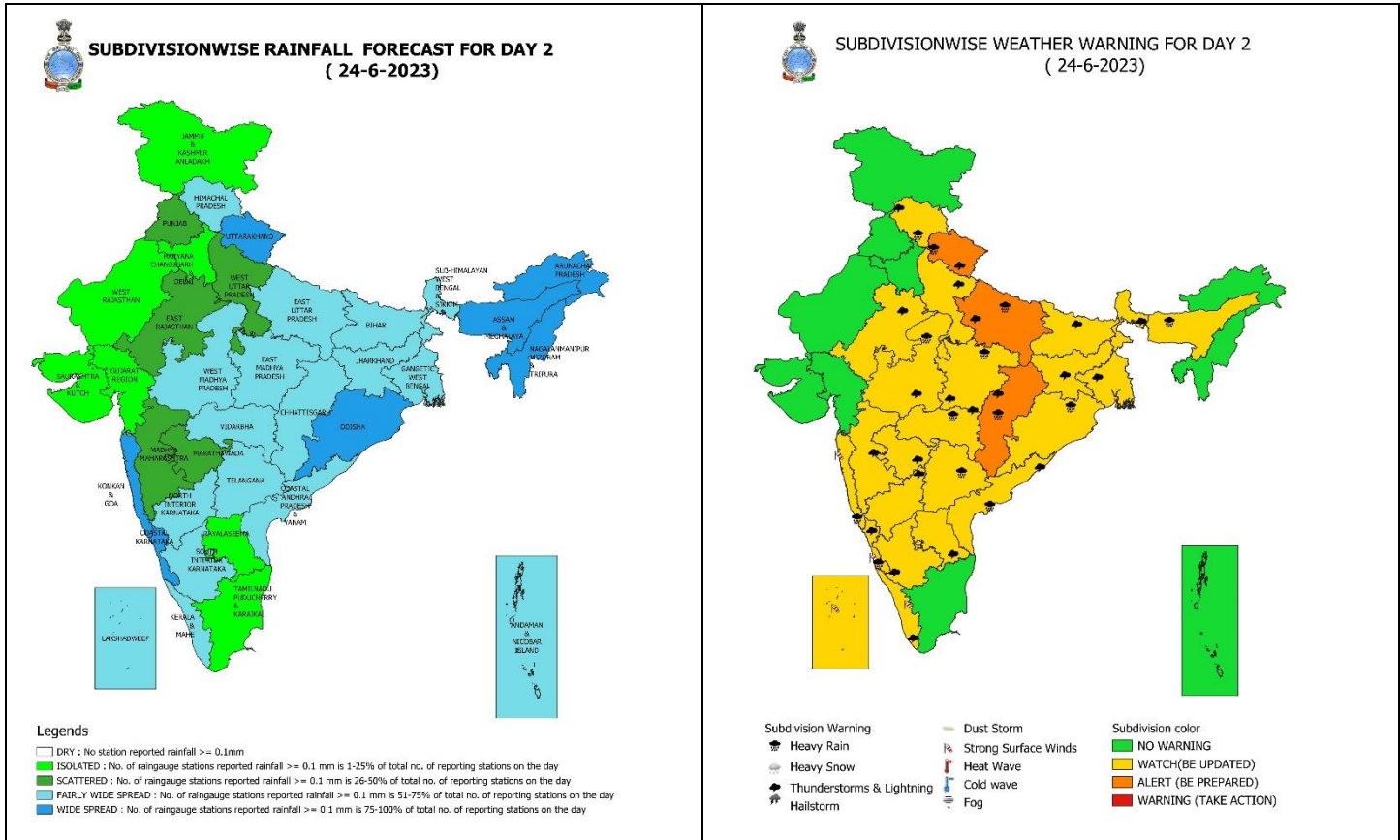
23 June (Day 1): ♦ Heavy to very heavy rainfall very likely at isolated places over Odisha and **heavy rainfall** at isolated places over Uttarakhand, Haryana, East Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalaya West Bengal & Sikkim, Bihar, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Telangana.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Coastal Andhra Pradesh & Yanam; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph very likely over westcentral & southwest Arabian Sea and Gulf of Mannar. **Squally weather speed reaching 45-55 kmph gusting to 65 kmph** very likely along & off Kerala-Karnataka-Goa-Konkan & Andhra Pradesh coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

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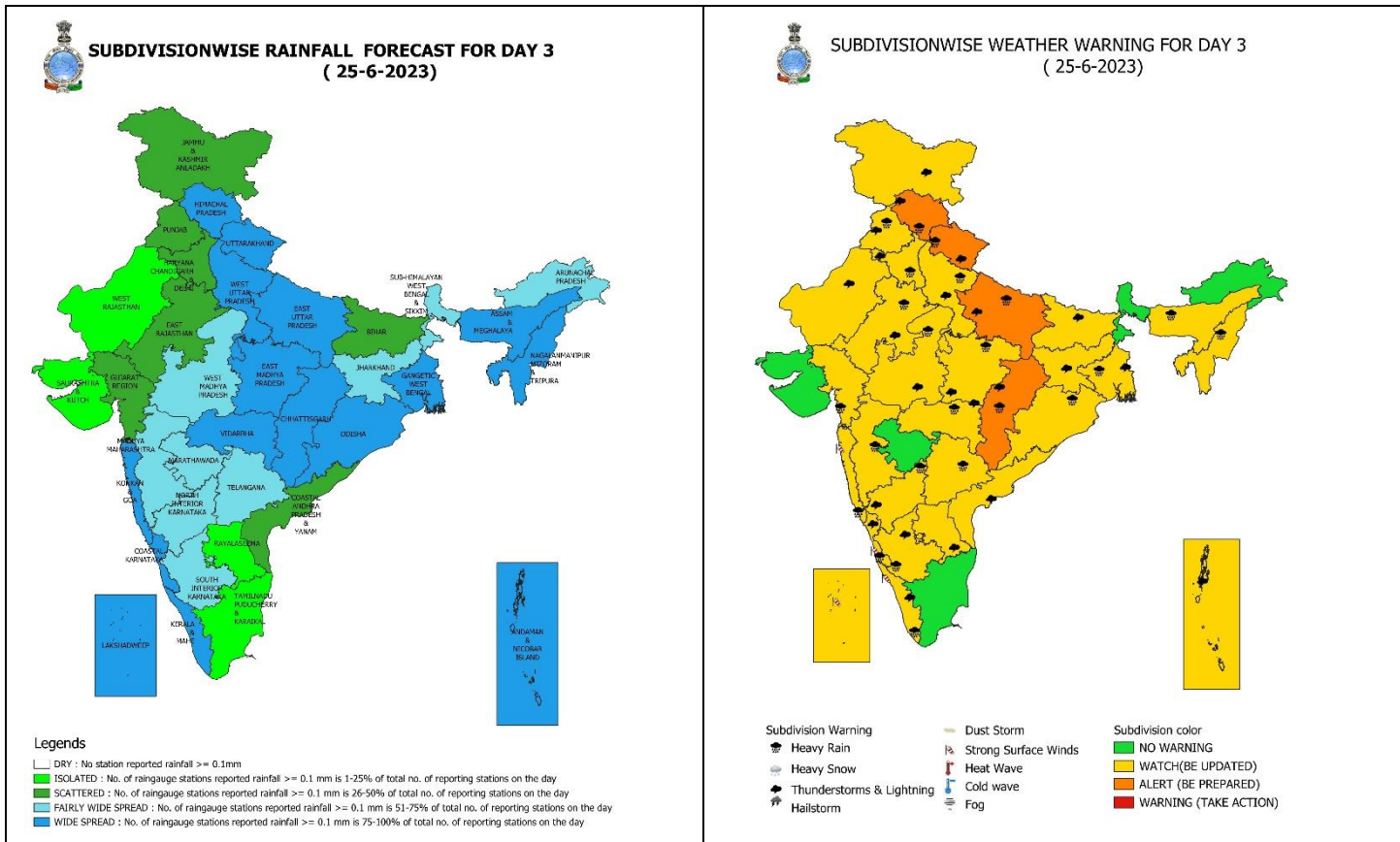
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24 June (Day 2): ♦ **Heavy to very heavy rainfall very likely at isolated places over Odisha and Uttarakhand and heavy rainfall at isolated places over Assam & Meghalaya, Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Telangana.**

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Coastal Andhra Pradesh & Yanam, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema; with lightning at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Karnataka, Kerala & Mahe.**

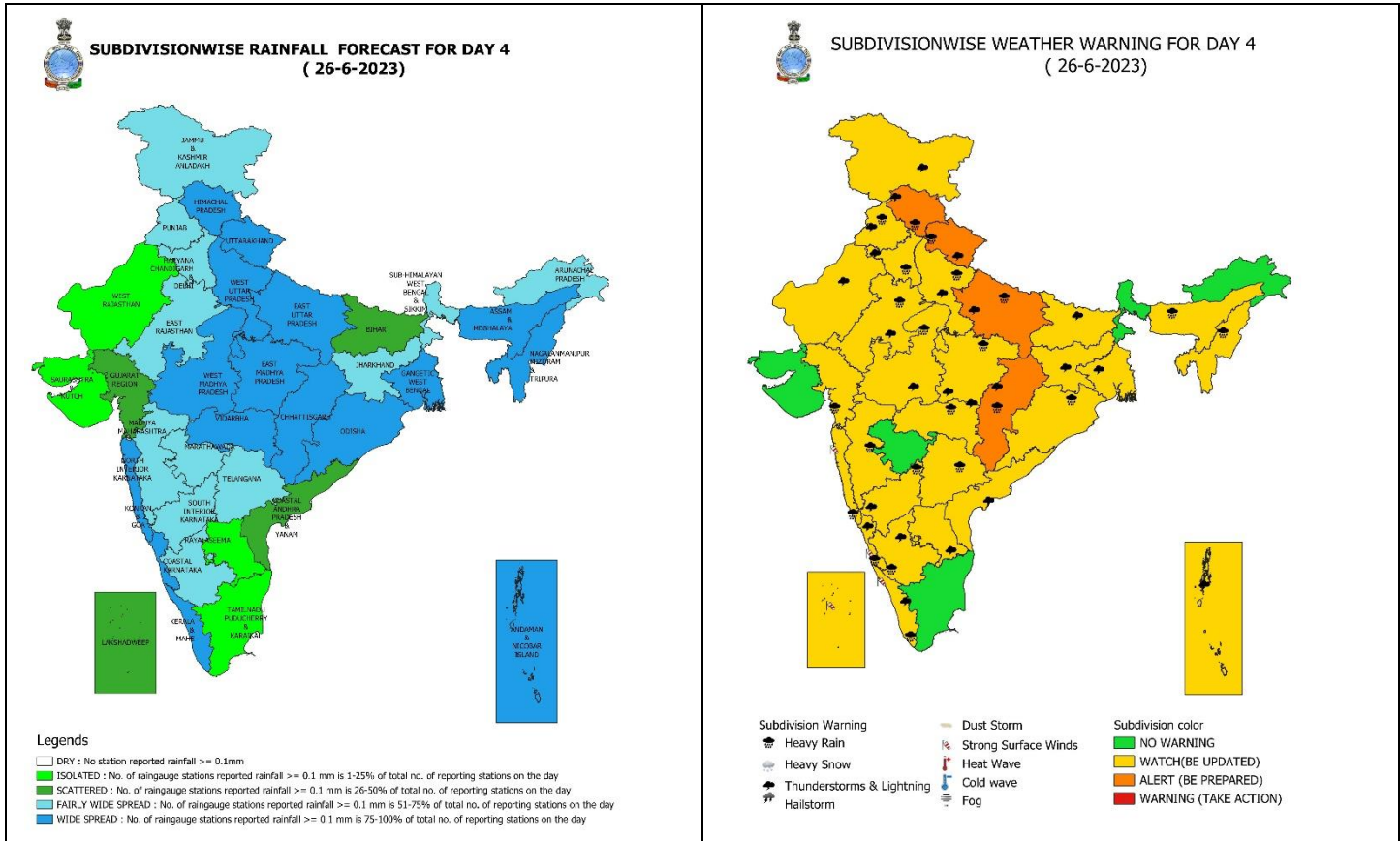
♦ **Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely over westcentral & southwest Arabian Sea and Gulf of Mannar. Squally weather speed reaching 45-55 kmph gusting to 65 kmph very likely along & off Kerala-Karnataka-Maharashtra coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.**



25 June (Day 3): ♦ **Heavy to very heavy rainfall** likely at isolated places over Odisha, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Telangana and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Punjab, Haryana-Chandigarh, Uttar Pradesh, East Rajasthan, Vidarbha, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Karnataka, Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.

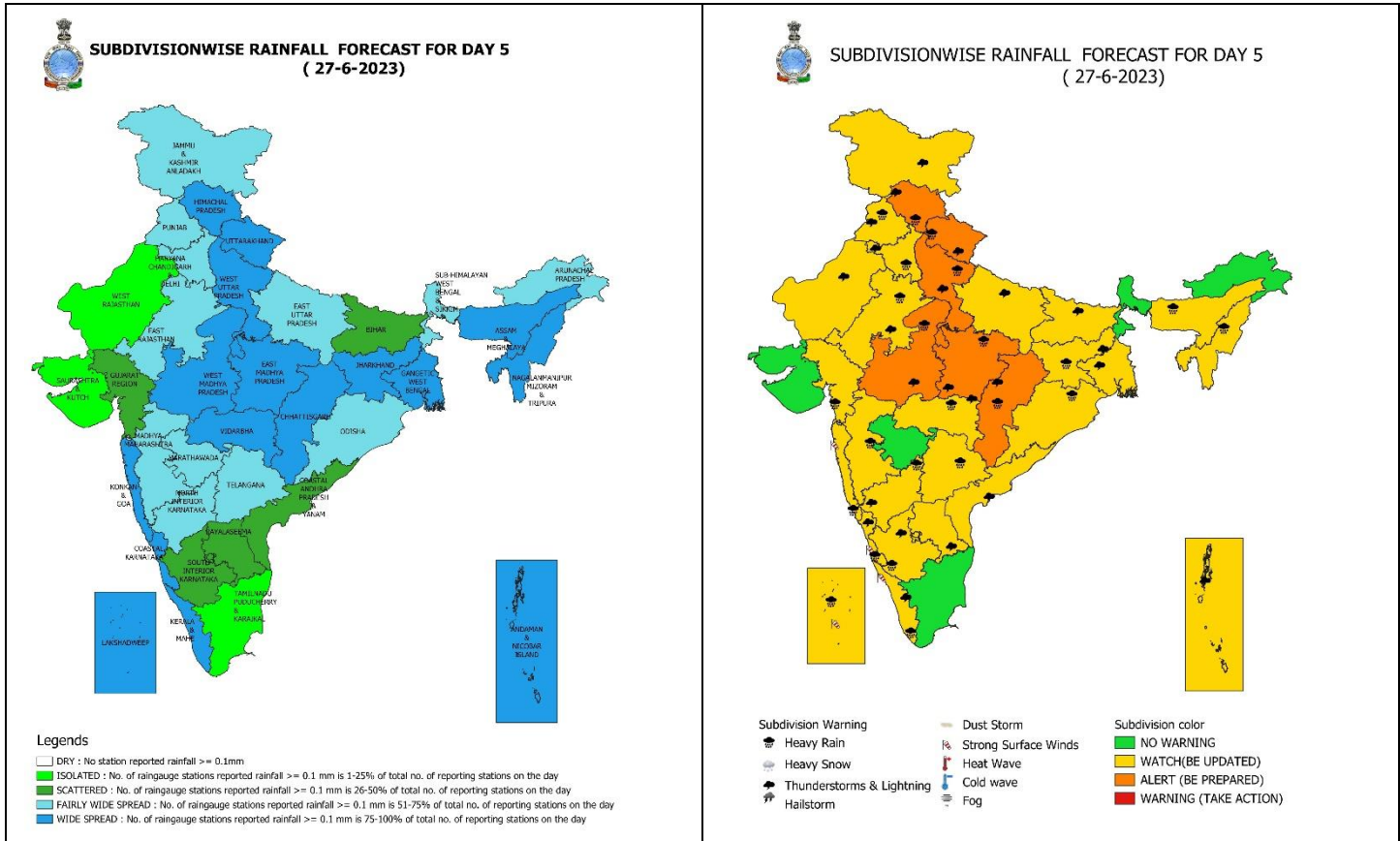
♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over westcentral & southwest Arabian Sea and Gulf of Mannar. **Squally weather speed reaching 45-55 kmph gusting to 65 kmph** very likely along & off Kerala-Karnataka-Maharashtra coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.



26 June (Day 4): ♦ **Heavy to very heavy rainfall** likely at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Vidarbha, Telangana and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Gangetic West Bengal, Punjab, Haryana-Chandigarh, Uttar Pradesh, East Rajasthan, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Karnataka, Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over westcentral & southwest Arabian Sea and Gulf of Mannar. **Squally weather speed reaching 45-55 kmph gusting to 65 kmph** very likely along & off Kerala-Karnataka-Maharashtra coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.



◆ **Heavy to very heavy rainfall** likely at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Vidarbha, Telangana and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Gangetic West Bengal, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, East Rajasthan, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Karnataka, Kerala & Mahe and Lakshadweep.

◆ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.

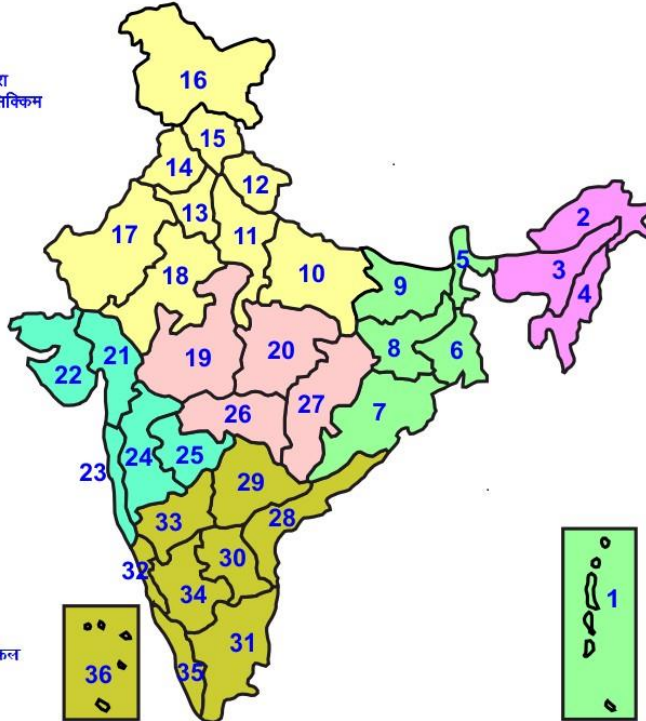
◆ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over westcentral & southwest Arabian Sea and Gulf of Mannar. **Squally weather speed reaching 45-55 kmph gusting to 65 kmph** very likely along & off Kerala-Karnataka-Maharashtra coasts, Lakshadweep area, southwest & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

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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 एंवम् सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एंवम् यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् 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. Marathwada
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

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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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