



Thursday, June 08, 2023
Time of Issue: 0915 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advance of Southwest Monsoon:

- ❖ The Northern Limit of Southwest Monsoon continues to pass through 10°N/65°E, 9°N/70°E, Minicoy, 7°N/81°E, 11°N/87°E, 14°N/90°E, 17°N/93°E & 19°N/95°E.
- ❖ Latest meteorological features associated with Monsoon onset over Kerala show:
- ❖ There is (a) Persistence of westerly winds over south Arabian Sea (b) Increase in the depth of westerly winds upto middle tropospheric levels and (c) Increase in cloudiness over the areas covering southeast Arabian Sea, Lakshadweep and Kerala coasts. Under such Scenario; the conditions are becoming favourable for Monsoon onset over Kerala during next 48 hours.
- ❖ The conditions are also favourable for further advance of Southwest Monsoon into some more parts of South Arabian Sea, entire Lakshadweep, Maldives and Comorin area, some more parts Southwest, Central & Northeast Bay of Bengal and some parts of Northeastern states during next 48 hours.

Severe Cyclonic Storm "Biparjoy" (pronounced as "Biporjoy") over eastcentral & adjoining southeast Arabian Sea:

- ❖ The **very severe cyclonic storm** "Biparjoy" (pronounced as "Biporjoy") over eastcentral Arabian Sea moved nearly northwards with a speed of 9 kmph during past 6 hours and lay centered at 1730 hours IST of today, the 07th June, 2023 over the same region near latitude 13.3°N and longitude 66.2 °E, about 860 km west-southwest of Goa, 940 km southwest of Mumbai, 1000 km south-southwest of Porbandar and 1300 km south of Karachi. It would intensify further and move nearly northwards during next 12 hours. It would then move north-northwestwards during subsequent 3 days.

Fishermen Warning:

- Total suspension of fishing operations over;
 - eastcentral and adjoining westcentral & south Arabian Sea till 12th June.
 - westcentral and adjoining northwest Arabian Sea during 12-14th June
- Fishermen are advised not to venture into:
 - Central Arabian Sea till 13th June.
 - Adjoining areas of north Arabian Sea during 12th -13th June.
 - Adjoining areas of south Arabian Sea till 7th June.
- Those out at sea are advised to return to coast.

Other Significant Meteorological features

- ❖ A Western Disturbance lies over Himachal Pradesh at middle tropospheric levels.
- ❖ A trough runs from north Chhattisgarh to North Interior Karnataka in lower tropospheric levels.
- ❖ A cyclonic circulation lies over south Tamilnadu & neighbourhood at middle tropospheric levels.

Forecast and warning over the country during next 5 days:

South India:

- ❖ Light/moderate fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Kerala, Lakshadweep, Coastal & South Interior Karnataka; isolated to scattered activity over North Interior Karnataka, Tamil Nadu and Andhra Pradesh during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands during 08th-09th; Kerala during 08th-12th; Lakshadweep during 09th-12th; and Karnataka on 10th & 11th June.

Northeast India:

- ❖ Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning very likely over the region during next 5 days. Isolated **heavy rainfall** very likely over Manipur & Mizoram during 08th-09th and Arunachal Pradesh, Assam & Meghalaya on 10th & 11th June.

No significant weather is likely over rest parts of the country during next 5 days.

Heat Wave warning:

- ❖ **Heat wave to severe heat wave conditions** very likely to continue in some pockets over Bihar during 08th to 09th June and heat wave in isolated pockets thereafter till 12th June.
- ❖ **Heat wave conditions** very likely to continue in isolated pockets over West Bengal till 10th, Jharkhand, Andhra Pradesh & Yanam till 12th; Telangana till 09th; Rayalaseema till 08th and south Uttar Pradesh during 08th-10th June.



Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Andaman & Nicobar Islands, Kerala & Mahe; **at many places** over Nagaland, Manipur, Mizoram & Tripura; **at a few places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **at isolated places** over Himachal Pradesh, East Uttar Pradesh, West Madhya Pradesh, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Telangana, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Andaman & Nicobar Islands.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): **Andaman & Nicobar Islands:** Port Blair-10, Long Islands-7; **Odisha:** Goplapur-2; **Nagaland, Manipur, Mizoram & Tripura:** Aijal-2; **Kerala & Mahe:** Thiruvananthapuram-2; Kozhikode-1.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Odisha, Telangana,, Tamil Nadu, Puducherry & Karaikal, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Andaman & Nicobar Islands.
- ❖ Yesterday, **Heat Wave to Severe Heat Wave conditions** prevailed in some parts of Bihar; **Heat Wave conditions** in some parts of Gangetic West Bengal and in isolated pockets over Sub-Himalayan West Bengal & Sikkim. This was 8th day of Heat Wave conditions over the above areas. **Heat Wave conditions** also observed in isolated pockets over Coastal Andhra Pradesh and Telangana.
- ❖ **Minimum Temperature Departures (as on 07-06-2023):** Minimum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Madhya Maharashtra; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Bihar and Sub-Himalayan West Bengal & Sikkim; at isolated places over Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at many places over Marathwada; at a few places over Arunachal Pradesh, Chhattisgarh and Telangana; at isolated places over Assam & Meghalaya, Gujarat Region and Konkan & Goa. They were **markedly below normal (-5.1°C or less)** at many places over West Rajasthan; at a few places over Haryana, Chandigarh & Delhi; at isolated places over East Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at isolated places over Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at most places over Himachal Pradesh, Uttarakhand and Punjab; at a few places over Uttar Pradesh and Andaman & Nicobar Islands; at isolated places over Vidarbha and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 18.5°C was reported at **Sikar (East Rajasthan)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 07-06-2023):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Bihar, Assam & Meghalaya; at a few places over Arunachal Pradesh; **appreciably above normal (3.1°C to 5.1°C)** at most places over Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal; at many places over Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Coastal Karnataka, North Interior Karnataka; at a few places over Tamil Nadu, Puducherry & Karaikal, Lakshadweep; at isolated places over East Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Coastal Andhra Pradesh & Yanam, Telangana; at many places over Vidarbha, Chhattisgarh, Marathwada, Konkan & Goa, Rayalaseema, Kerala & Mahe; at a few places over South Interior Karnataka. They were **appreciably below normal (-3.1°C to -5.1°C)** at many places over Punjab; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi; at isolated places over ; **below normal (-1.6°C to -3.0°C)** at most places over East Rajasthan; at many places over West Rajasthan; at a few places over Andaman & Nicobar Islands; at isolated places over Uttarakhand, West Uttar Pradesh, Gujarat Region and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 44.5°C was reported at **Sambalpur (Odisha)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Southwest Monsoon continues to pass through 10°N/65°E, 9°N/70°E, Minicoy, 7°N/81°E, 11°N/87°E, 14°N/90°E, 17°N/93°E & 19°N/95°E.
- ❖ Latest meteorological features associated with Monsoon onset over Kerala show:
There is (a) Persistence of westerly winds over south Arabian Sea (b) Increase in the depth of westerly winds upto middle tropospheric levels and (c) Increase of Cloudiness over areas covering southeast Arabian Sea, Lakshadweep and Kerala coasts.
Under such Scenario; the conditions are becoming favorable for Monsoon onset over Kerala during next 24 hours.
The conditions are also favourable for further advance of Southwest Monsoon into some more parts of South Arabian Sea and entire Lakshadweep area and Maldives and Comorin area, more parts Southwest & Central Bay of Bengal, some more parts of Northeast Bay of Bengal and some parts of Northeastern states during the same period.
- ❖ The **very severe cyclonic storm "Biparjoy" (pronounced as "Biporjoy")** over eastcentral Arabian Sea moved nearly northwards with a speed of 5 kmph during past 6 hours and lay centered at 0530 hours IST of today, the 08th June, 2023 over the same region near latitude 13.9°N and longitude 66.0°E, about 860 km west-southwest of Goa, 910 km southwest of Mumbai, 940 km south-southwest of Porbandar and 1230 km south of Karachi. It would intensify further gradually during next 48 hours and move nearly north-northwestwards during next 3 days.
- ❖ The Western Disturbance as a cyclonic circulation over Himachal Pradesh & neighbourhood at 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from north Chhattisgarh to North Interior Karnataka across Telangana at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over south Tamilnadu & neighbourhood at 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over eastcentral Bay of Bengal off Myanmar coast extending upto 5.8 km above mean sea level persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 13th June, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ Maximum Temperatures Forecast:
 - **Northwest India:** Rise in maximum temperatures by 2-3°C very likely over plains of Northwest India (except Rajasthan) during next 3 days and no significant change thereafter.
 - No significant change in maximum temperature very likely over rest parts of the country during next 5 days.

Weather Outlook for subsequent 2 days (During 13th -15th June, 2023)

- ❖ Fairly widespread to widespread light/moderate rainfall with thunderstorm likely to continue over northeast India, Kerala & Mahe and Coastal Karnataka. Isolated to scattered rainfall over Tamil Nadu, Puducherry & Karaikal, Interior Karnataka and Islands.
- ❖ Isolated rainfall over Western Himalayan Region and adjoining plains of Northwest India.
- ❖ Dry weather over rest parts of the country.



Weather Warning during next 5 days

08 June (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, Manipur, Mizoram and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Rajasthan and Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Coastal & South Interior Karnataka and Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat Wave to severe heat wave conditions** very likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Uttar Pradesh, Odisha, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema.

♦ **Gale wind speed reaching 135-145 kmph gusting to 160 kmph** is prevailing over eastcentral Arabian Sea and adjoining areas of westcentral Arabian Sea. It is **likely to increase and become 145-155 kmph gusting to 170 kmph** over the same area from night of 8th June over the same area. Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely to prevail over the adjoining areas of south Arabian Sea. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Karnataka-Goa-Maharashtra coasts.

09 June (Day 2): ♦ **Heavy rainfall** very likely at isolated places over Kerala & Mahe, Lakshadweep, Manipur, Mizoram and Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Rajasthan, Coastal & South Interior Karnataka and Kerala & Mahe; **with lightning** at isolated places over Vidarbha, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat Wave to severe heat wave conditions** very likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Uttar Pradesh, Odisha, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Gale wind speed reaching 145-155 kmph gusting to 170 kmph** is likely to prevail over central Arabian Sea. **Squally wind speed reaching 50-60 kmph gusting to 70 kmph** is likely over adjoining areas of South Arabian Sea. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Karnataka-Goa-Maharashtra coasts.

10 June (Day 3): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Karnataka, Lakshadweep and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Madhya Pradesh, Chhattisgarh and Kerala & Mahe; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Vidarbha, West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Lakshadweep.

♦ **Heat Wave conditions** likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Uttar Pradesh, Odisha, Jharkhand, West Bengal & Sikkim and Coastal Andhra Pradesh & Yanam.

♦ **Gale wind speed reaching 145-155 kmph gusting to 170 kmph** is likely to prevail over central Arabian Sea. **Squally wind speed reaching 50-60 kmph gusting to 70 kmph** is likely over adjoining areas of South Arabian Sea. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Karnataka-Goa-Maharashtra coasts.

11 June (Day 4): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Karnataka, Lakshadweep and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Madhya Pradesh, Chhattisgarh and Kerala & Mahe; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Odisha, Vidarbha, West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Lakshadweep.

♦ **Heat Wave conditions** likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Coastal Andhra Pradesh & Yanam.

♦ **Gale wind speed reaching 135-145 kmph gusting to 160 kmph** is likely to prevail over central & adjoining north Arabian Sea. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Maharashtra-Gujarat coasts.

12 June (Day 5): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Karnataka, Lakshadweep and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Madhya Pradesh, Chhattisgarh and Kerala & Mahe; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Odisha, Vidarbha, West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Lakshadweep.

♦ **Heat Wave conditions** likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Coastal Andhra Pradesh & Yanam.

♦ **Gale wind speed reaching 130-140 kmph gusting to 155 kmph** is likely to prevail over central & adjoining north Arabian Sea **and become 125-135 kmph gusting to 150 kmph** from evening of 12th June. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Maharashtra-Gujarat coasts.

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Table-1

5 Day Rainfall Forecast						
S. No.	Subdivision	08-Jun	09-Jun	10-Jun	11-Jun	12-Jun
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	SCT	FWS	WS	WS	WS
3	ASSAM & MEGHALAYA	SCT	FWS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	WS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	SCT	FWS	WS	WS
6	GANGETIC WEST BENGAL	ISOL	ISOL	ISOL	SCT	SCT
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	DRY	DRY	DRY	ISOL	ISOL
9	BIHAR	DRY	DRY	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	ISOL	ISOL	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	ISOL	ISOL	ISOL
12	UTTARAKHAND	ISOL	ISOL	ISOL	SCT	SCT
13	HARYANA CHANDIGARH & DELHI	ISOL	DRY	DRY	ISOL	ISOL
14	PUNJAB	ISOL	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	SCT	SCT
16	JAMMU & KASHMIR AND LADAKH	ISOL	DRY	DRY	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	DRY	DRY	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	ISOL	ISOL	ISOL
21	GUJARAT REGION	DRY	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	DRY	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	ISOL	SCT	SCT	SCT	SCT
24	MADHYA MAHARASHTRA	ISOL	SCT	SCT	SCT	SCT
25	MARATHAWADA	ISOL	ISOL	SCT	ISOL	ISOL
26	VIDARBHA	DRY	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	DRY	DRY	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	SCT	SCT
29	TELANGANA	ISOL	SCT	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	SCT	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	SCT	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	SCT	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	SCT	FWS	FWS	FWS	FWS
35	KERALA & MAHE	FWS	WS	WS	WS	WS
36	LAKSHADWEEP	WS	WS	WS	WS	WS

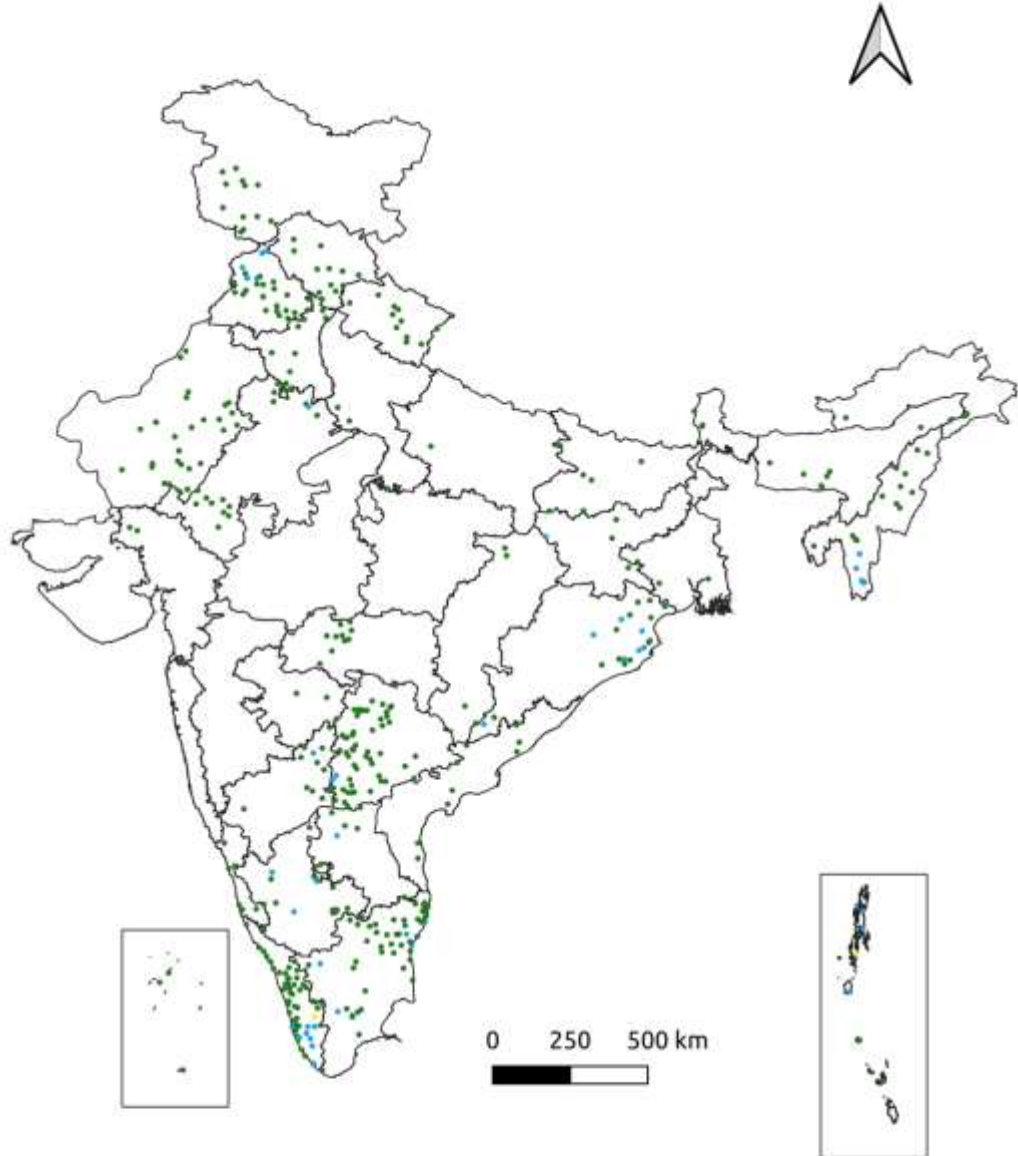
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0



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



24 Hr cumulative rainfall recorded over different stations
during 0830 IST of 6-6-2023 to 0830 IST of 7-6-2023

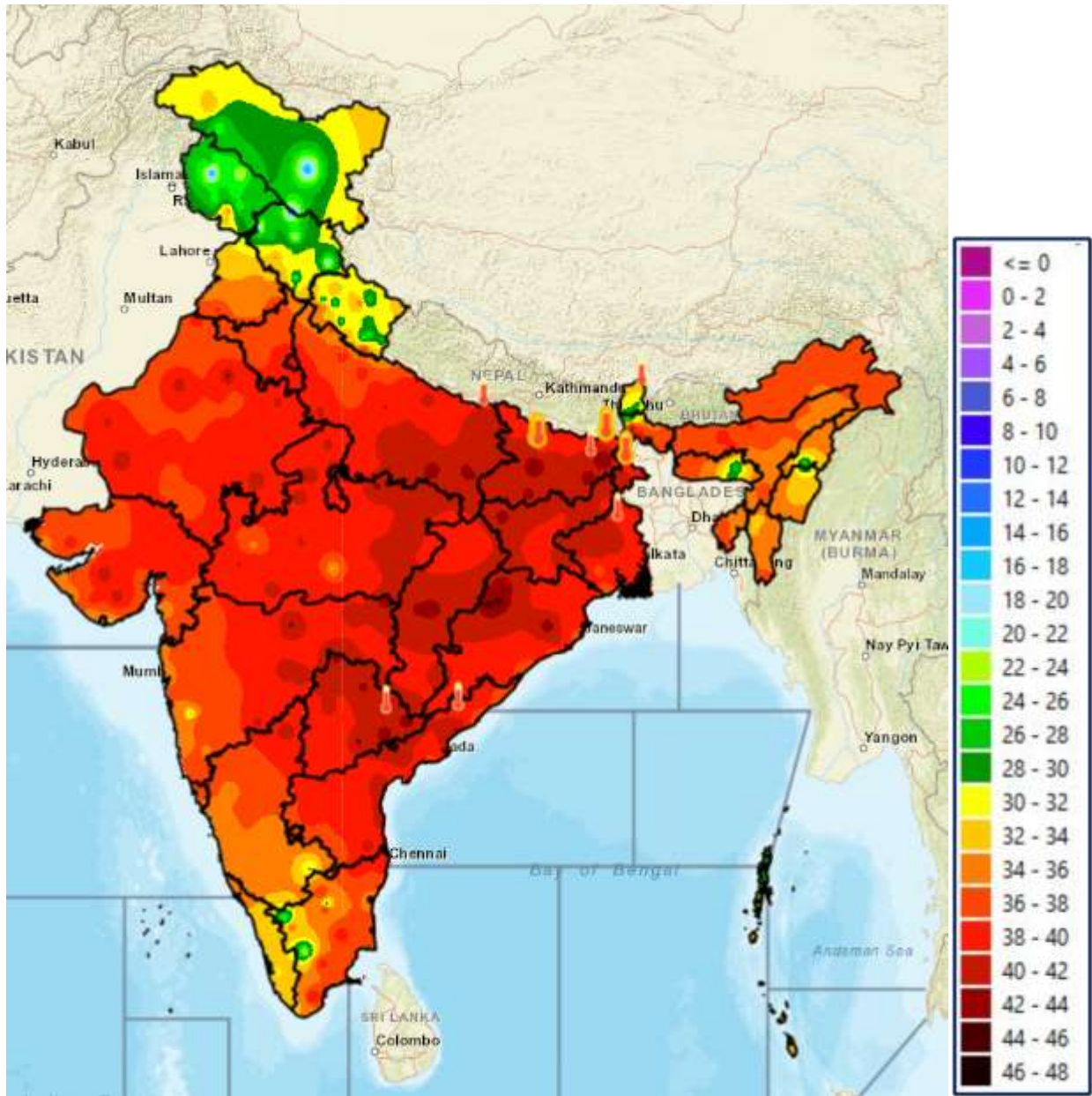


Legends

- 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)



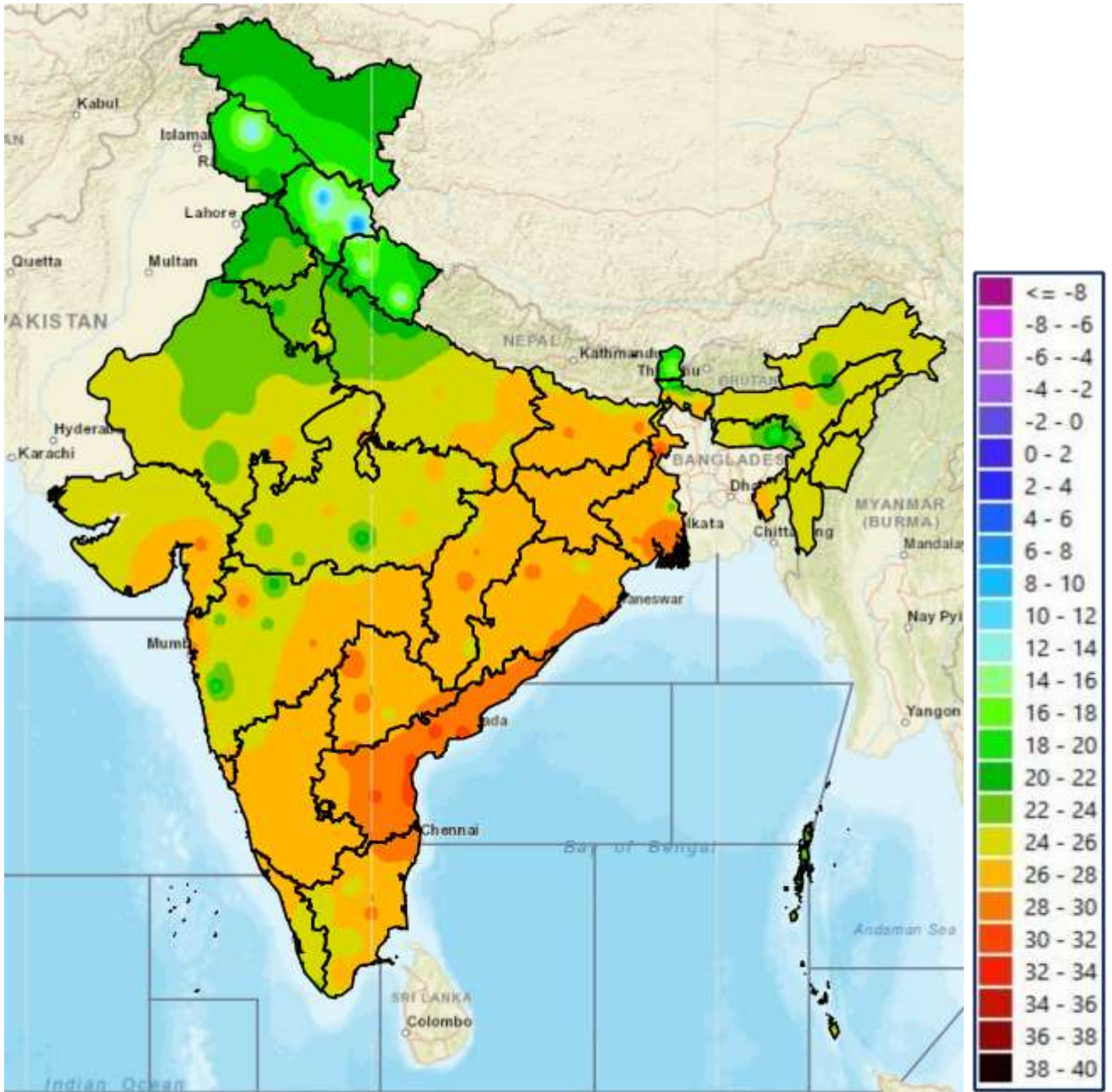
Fig. 2: Maximum Temperatures Dated 07.06.2023



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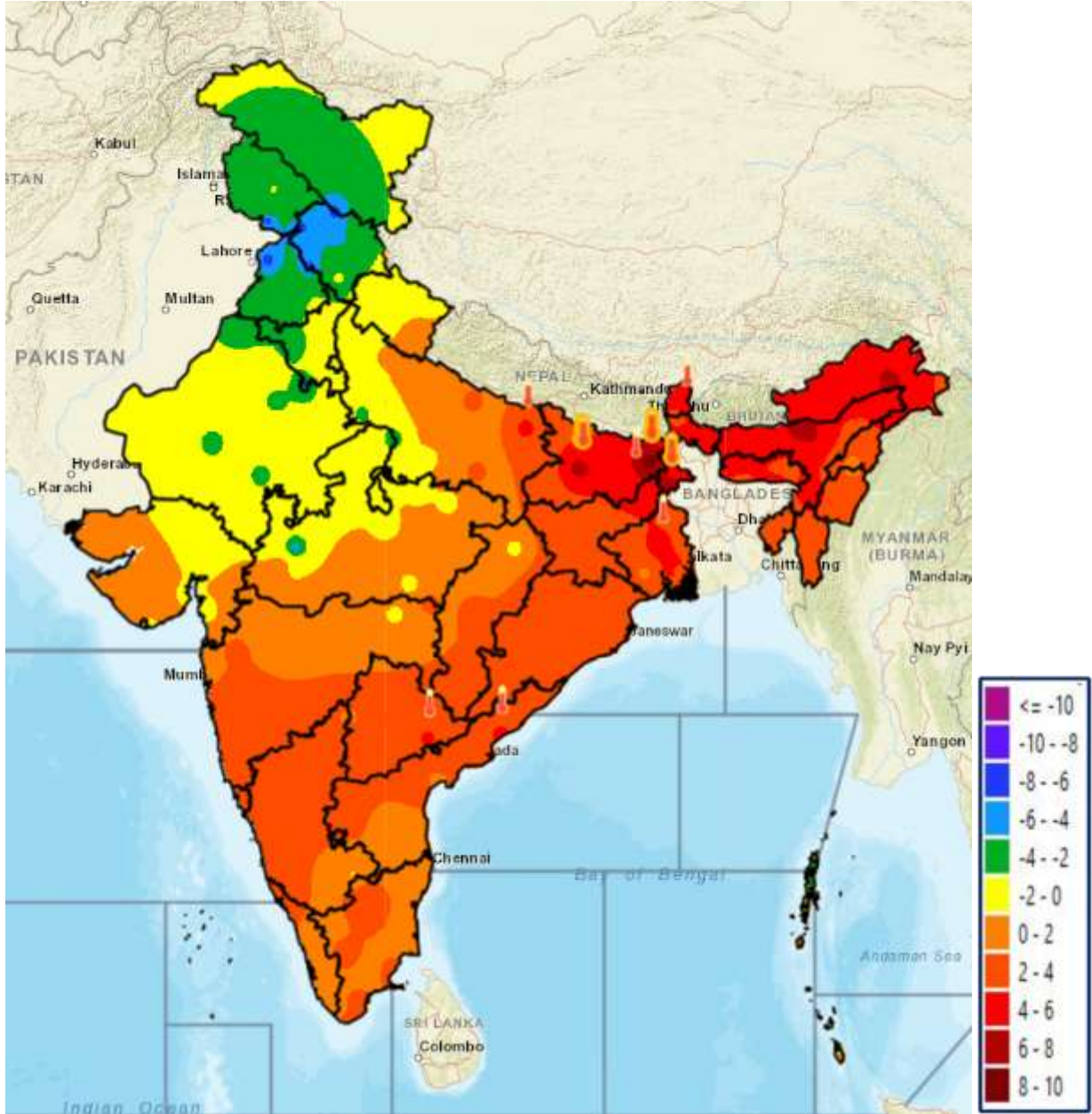
Fig. 3: Minimum Temperatures Dated 07.06.2023



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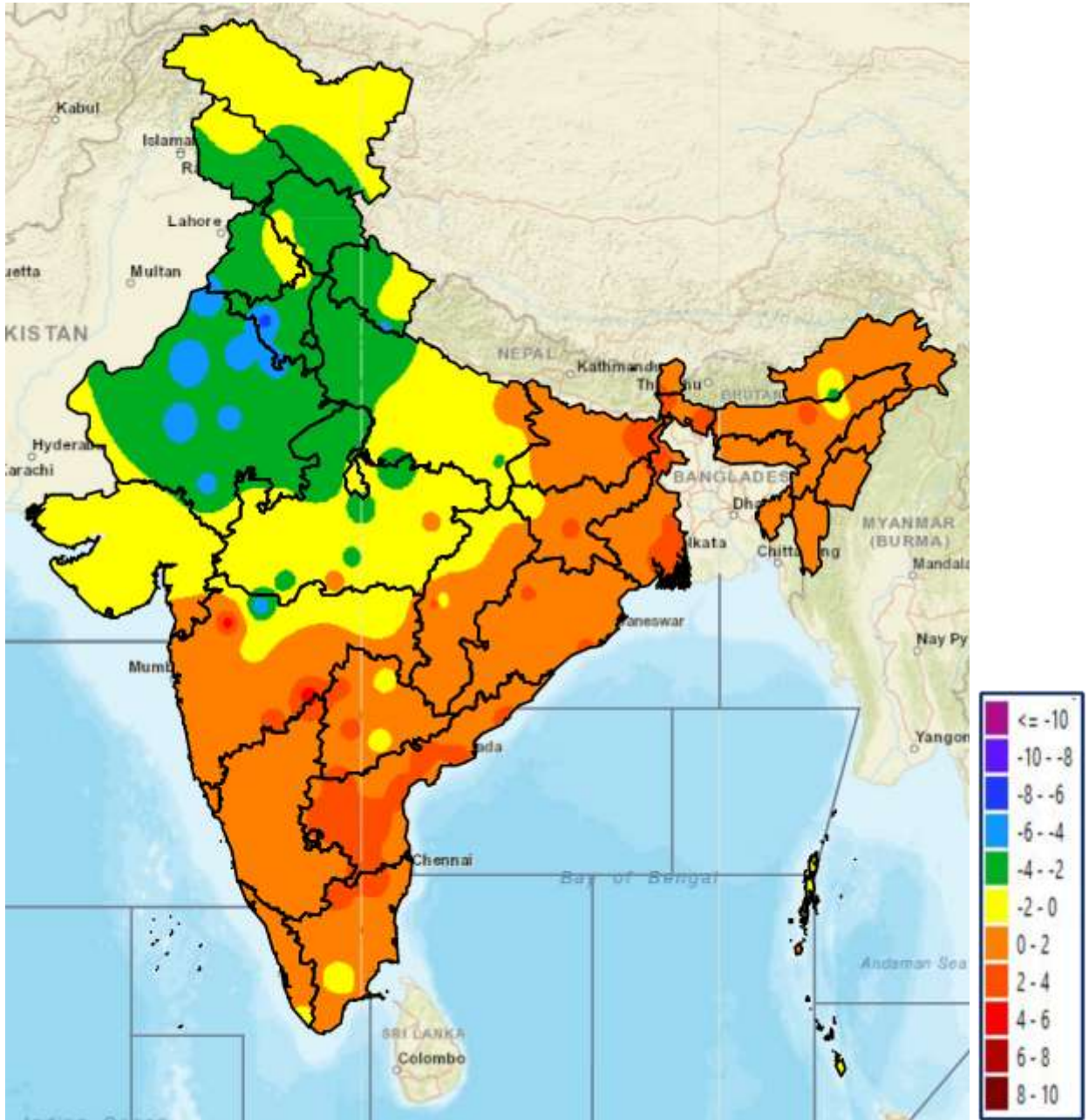
Fig. 4: Departure from Normal of Maximum Temperatures Dated 07.06.2023



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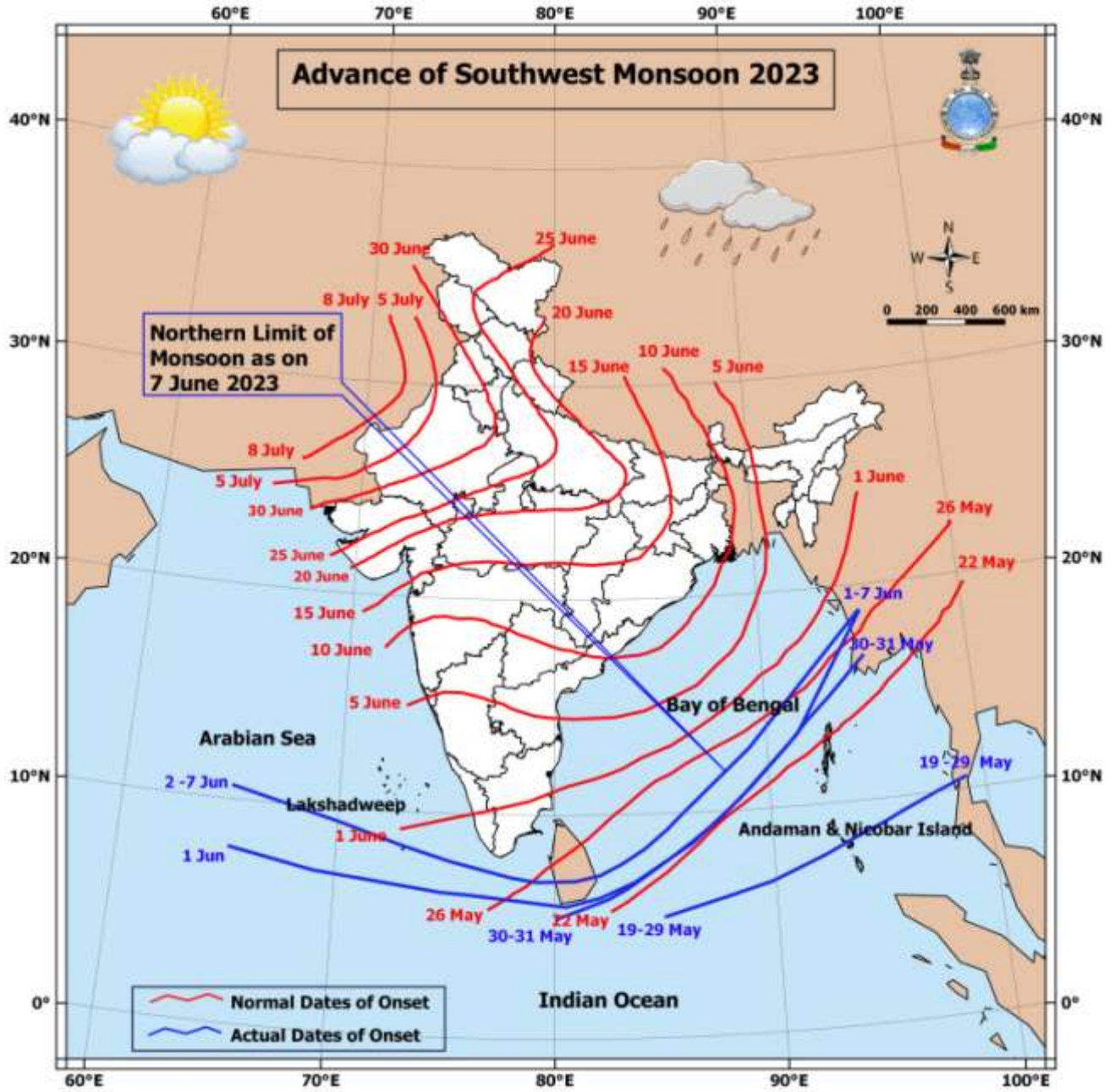
Fig. 5: Departure from Normal of Minimum Temperatures Dated 07.06.2023



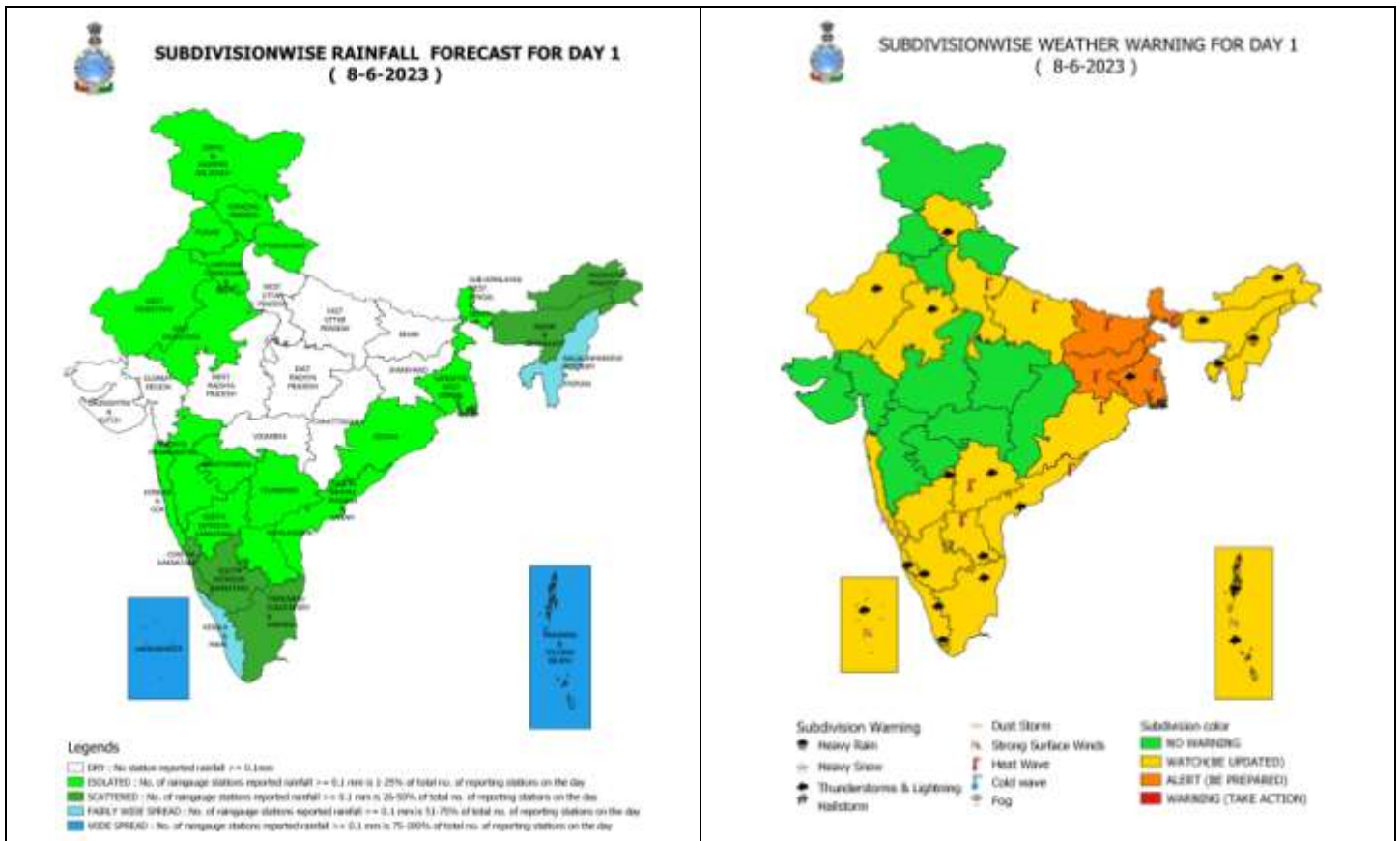
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Fig. 6: Advance of Southwest Monsoon



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08 June (Day 1): ♦ Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Manipur, Mizoram and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Rajasthan and Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Coastal & South Interior Karnataka and Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat Wave to severe heat wave conditions** very likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Uttar Pradesh, Odisha, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema.

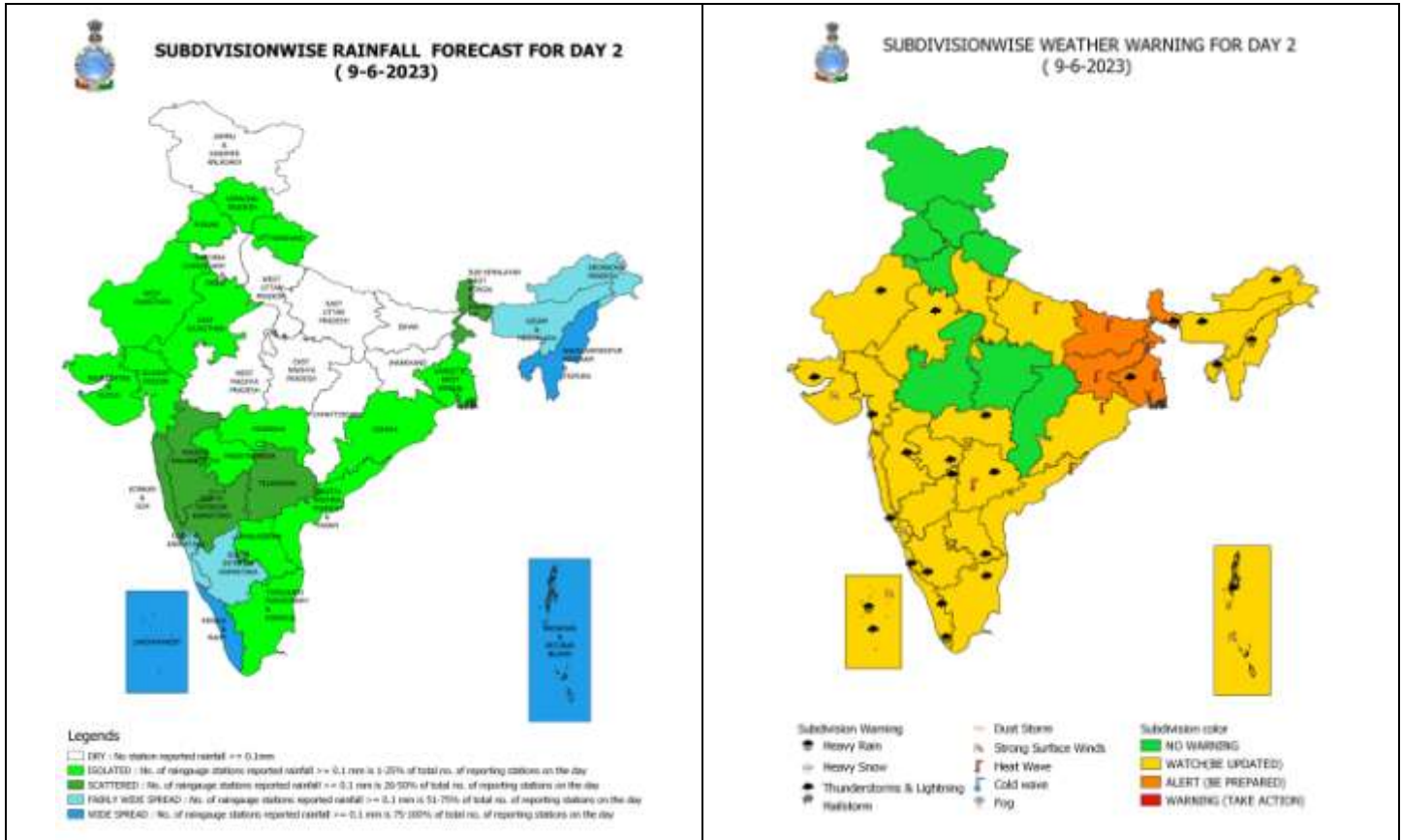
♦ **Gale wind speed reaching 135-145 kmph gusting to 160 kmph** is prevailing over eastcentral Arabian Sea and adjoining areas of westcentral Arabian Sea. It is **likely to increase and become 145-155 kmph gusting to 170 kmph** over the same area from night of 8th June over the same area. Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely to prevail over the adjoining areas of south Arabian Sea. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Karnataka-Goa-Maharashtra coasts.

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09 June (Day 2): ♦ **Heavy rainfall** very likely at isolated places over Kerala & Mahe, Lakshadweep, Manipur, Mizoram and Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Rajasthan, Coastal & South Interior Karnataka and Kerala & Mahe; **with lightning** at isolated places over Vidarbha, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat Wave to severe heat wave conditions** very likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Uttar Pradesh, Odisha, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Telangana.

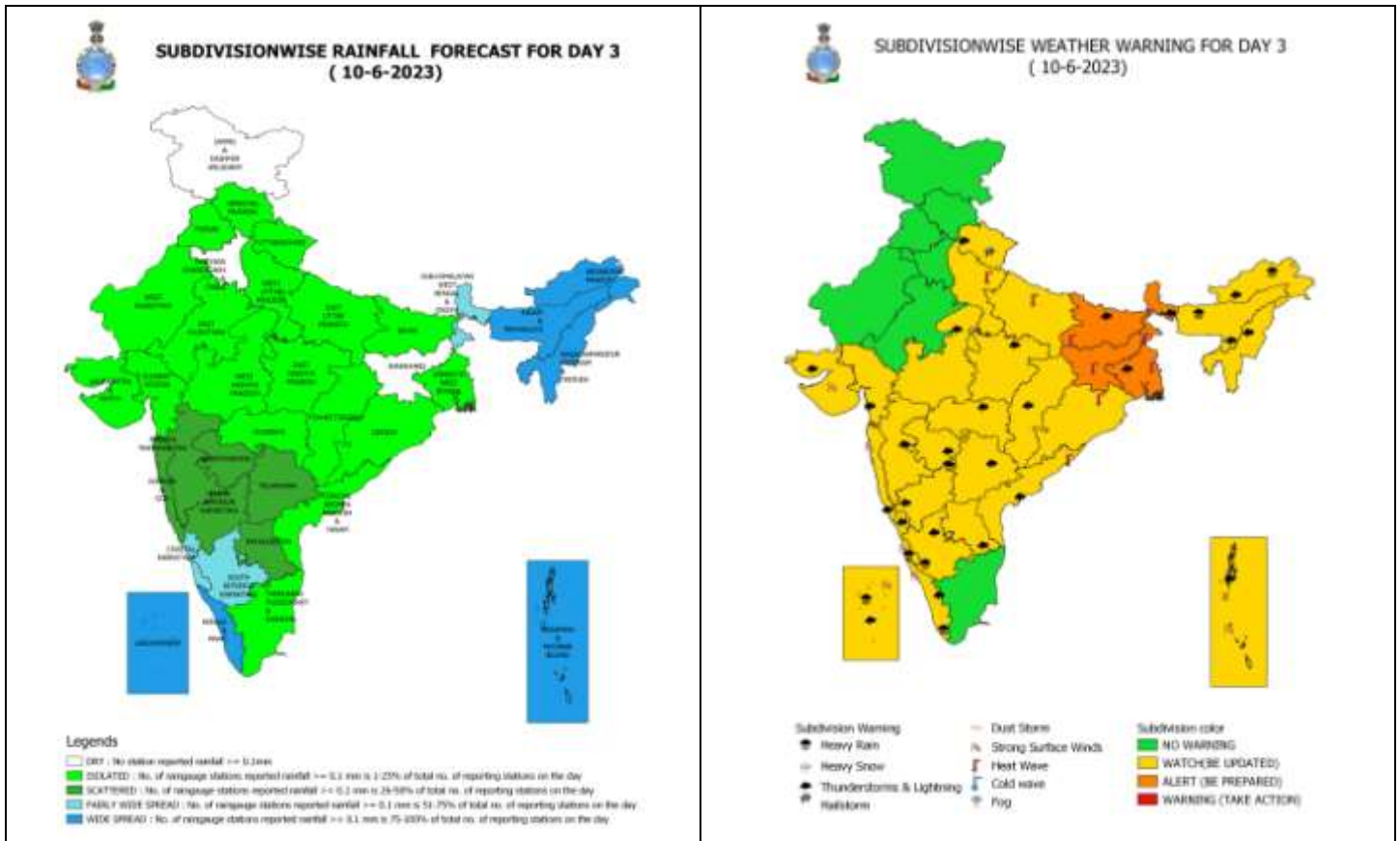
♦ **Gale wind speed reaching 145-155 kmph gusting to 170 kmph** is likely to prevail over central Arabian Sea. **Squally wind speed reaching 50-60 kmph gusting to 70 kmph** is likely over adjoining areas of South Arabian Sea. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Karnataka-Goa-Maharashtra coasts.

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10 June (Day 3): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Karnataka, Lakshadweep and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Madhya Pradesh, Chhattisgarh and Kerala & Mahe; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Vidarbha, West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Lakshadweep.

♦ **Heat Wave conditions** likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Uttar Pradesh, Odisha, Jharkhand, West Bengal & Sikkim and Coastal Andhra Pradesh & Yanam.

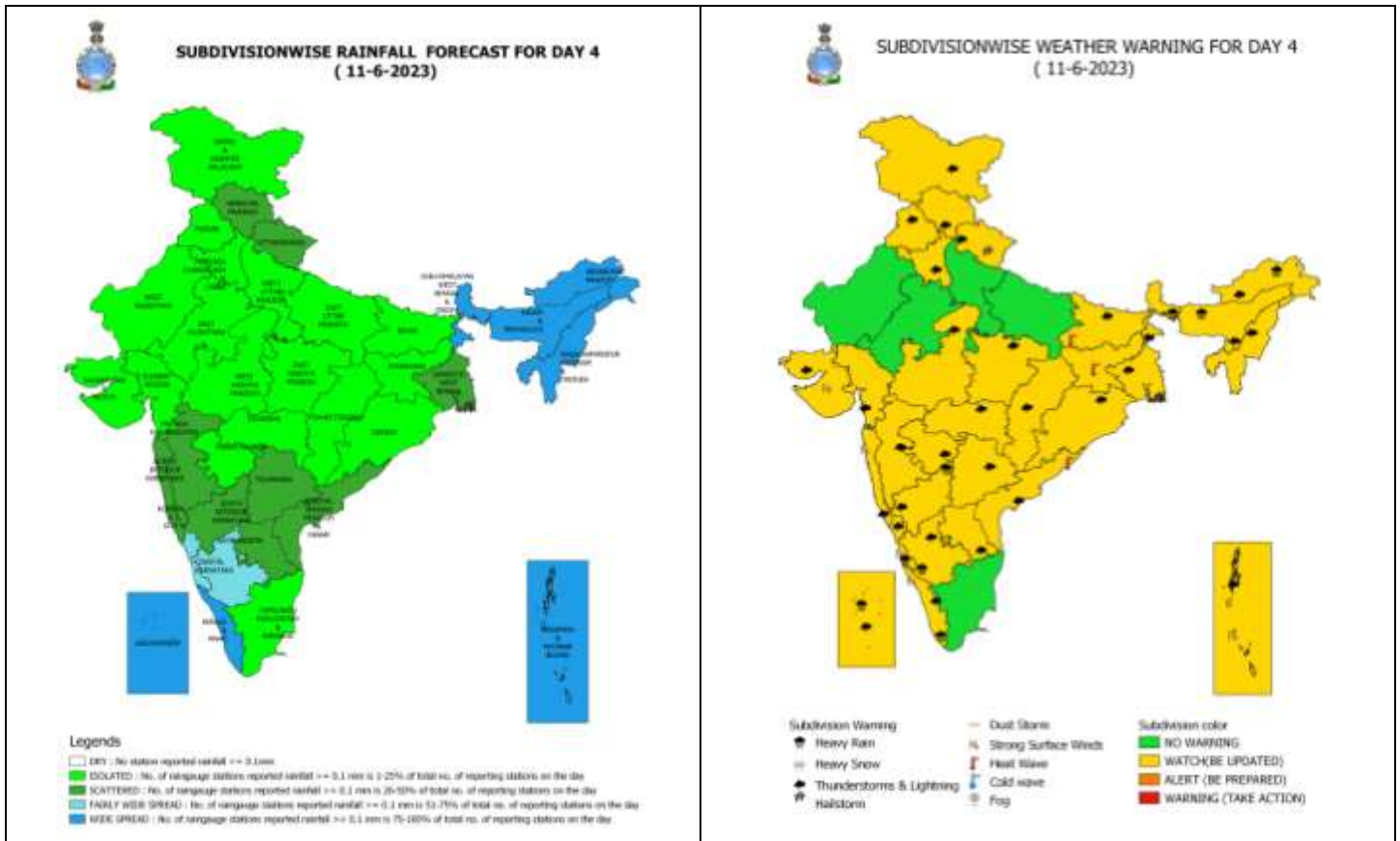
♦ **Gale wind speed reaching 145-155 kmph gusting to 170 kmph** is likely to prevail over central Arabian Sea. **Squally wind speed reaching 50-60 kmph gusting to 70 kmph** is likely over adjoining areas of South Arabian Sea. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Karnataka-Goa-Maharashtra coasts.

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11 June (Day 4): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Karnataka, Lakshadweep and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Madhya Pradesh, Chhattisgarh and Kerala & Mahe; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Odisha, Vidarbha, West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Lakshadweep.

♦ **Heat Wave conditions** likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Coastal Andhra Pradesh & Yanam.

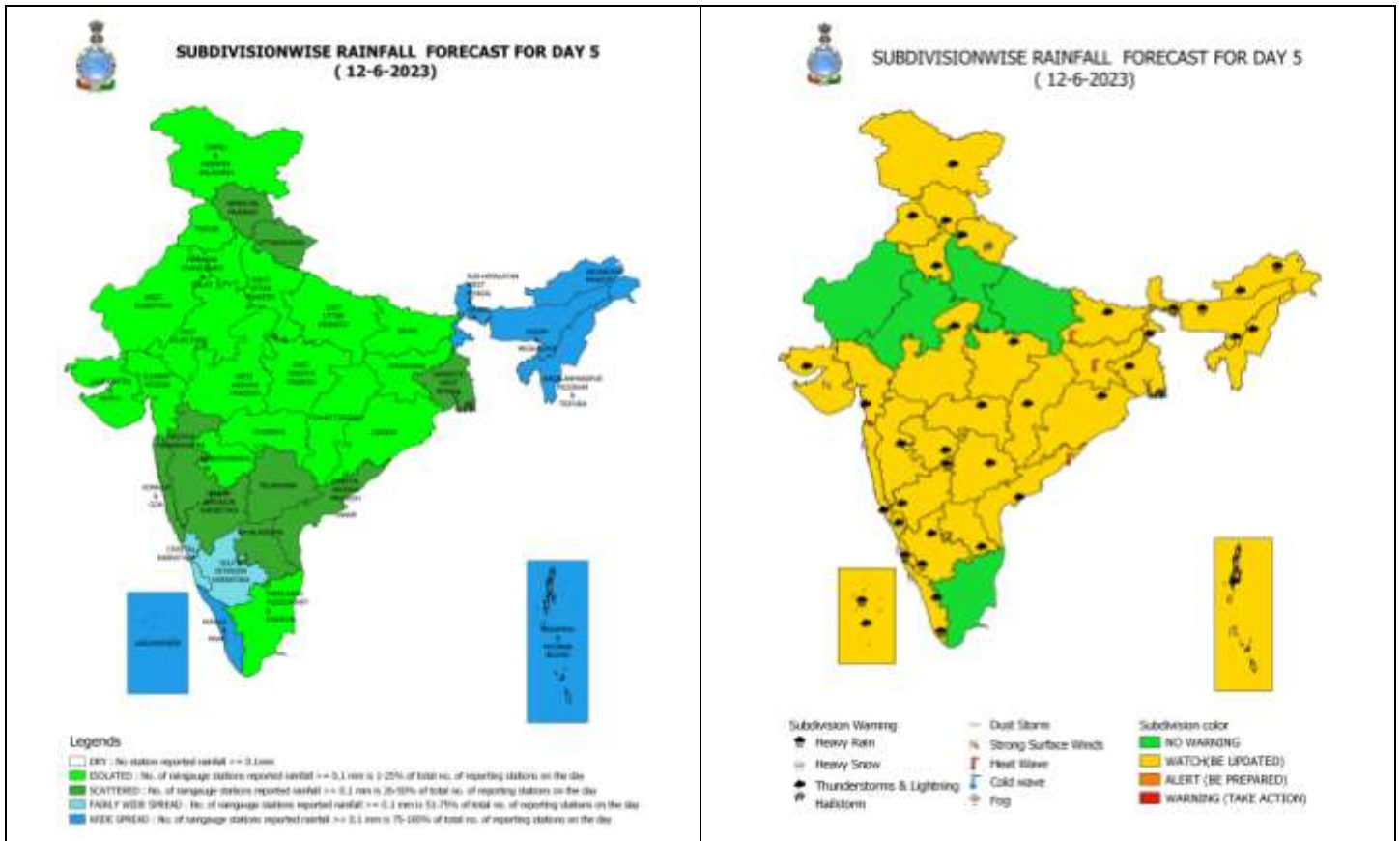
♦ **Gale wind speed reaching 135-145 kmph gusting to 160 kmph** is likely to prevail over central & adjoining north Arabian Sea. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Maharashtra-Gujarat coasts.

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12 June (Day 5): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Karnataka, Lakshadweep and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Madhya Pradesh, Chhattisgarh and Kerala & Mahe; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Odisha, Vidarbha, West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Lakshadweep.

♦ **Heat Wave conditions** likely in some parts of Bihar and **heat wave conditions** in isolated pockets over Coastal Andhra Pradesh & Yanam.

♦ **Gale wind speed reaching 130-140 kmph gusting to 155 kmph** is likely to prevail over central & adjoining north Arabian Sea **and become 125-135 kmph gusting to 150 kmph** from evening of 12th June. **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is likely along & off Maharashtra-Gujarat coasts.

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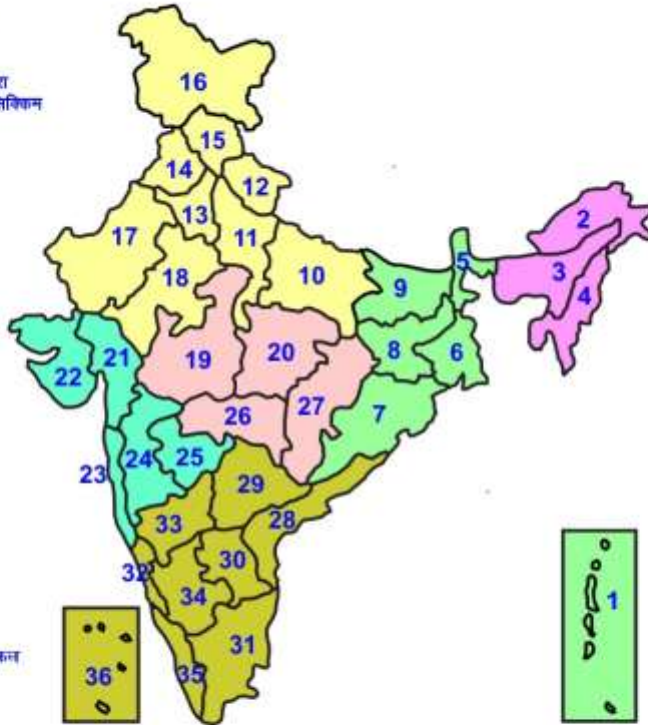
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीज़ोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय 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 क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 वटीय आंध्र प्रदेश एवं थलम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. 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

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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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