



Wednesday, June 07, 2023
Time of Issue: 0900 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.

Significant Meteorological features:

- ❖ The Cyclonic Storm "Biparjoy" (pronounced as "Biporjoy") over eastcentral and adjoining southeast Arabian Sea moved nearly northwards with a speed of 2 kmph during last 6 hours, intensified into a Severe Cyclonic Storm and lay centered at 0530 hours IST of 07th June, 2023 over the same region near latitude 12.6°N and longitude 66.1 °E, about 890 km west-southwest of Goa, 1000 km southwest of Mumbai, 1070 km south-southwest of Porbandar and 1370 km south of Karachi. It is likely to move nearly northwards during next 24 hours and intensify into a Very Severe Cyclonic Storm. It would then move north-northwestwards during subsequent 3 days.
- ❖ A Western Disturbance lies over Jammu & Kashmir at middle tropospheric levels.
- ❖ A trough runs from northeast Madhya Pradesh to North Interior Karnataka in lower 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, South Interior Karnataka; isolated to scattered activity over Coastal & North Interior Karnataka, Tamil Nadu and Andhra Pradesh during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands and Kerala during 07th-11th and South Interior Karnataka during 09th to 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 on 07th and Arunachal Pradesh, Assam & Meghalaya on 10th & 11th and Sub-Himalayan West Bengal & Sikkim on 11th June.

Northwest India:

- ❖ Light/moderate isolated rainfall with thunderstorm/lightning very likely over Northwest India on 07th June. Thundersquall (speed 50-60 kmph) likely over West Rajasthan on 07th June.

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

Maximum Temperatures and Heat Wave warning:

- ❖ Rise in maximum temperatures by 2-4°C very likely over plains of Northwest India during next 4-5 days and by 2-3°C over Central India during next 2 days.
- ❖ **Heat wave conditions** very likely to continue in some pockets over Bihar during 07th to 11th June.
- ❖ **Heat wave conditions** very likely to continue in isolated pockets over West Bengal, east Jharkhand, Andhra Pradesh & Yanam, Telangana during 07th-11th June; East Uttar Pradesh during 07th to 11th June and West Uttar Pradesh during 08th-11th June.

*** Red color warning does not mean "Red Alert" Red color warning means "Take Action".**

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Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Andaman & Nicobar Islands; at many places over Nagaland Manipur Mizoram & Tripura; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and at isolated places over Assam & Meghalaya, Gangetic West Bengal, Odisha, Haryana, Chandigarh & Delhi, West Rajasthan, Madhya Pradesh, Vidarbha, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Uttarakhand, Himachal Pradesh and Lakshadweep.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): Port Blair -6; Maya Bandar-4; Imphal, Aijal, Mukteshwar, Amraoti, Numgambakkam – 1 each.
- ❖ **Hailstorm observed** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over East Uttar Pradesh and Odisha.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Uttarakhand, Haryana, Rajasthan, Madhya Pradesh, Odisha, Chhattisgarh and Nagaland, Saurashtra & Kutch and Manipur, Mizoram & Tripura.
- ❖ Yesterday, **heat Wave conditions** prevailed in some pockets over Bihar and in isolated pockets over West Bengal, Coastal Andhra Pradesh and Telangana. This is 7th day of Heat Wave conditions over the above areas.
- ❖ **Minimum Temperature Departures (as on 06-06-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Rayalaseema, Bihar, Assam & Meghalaya, Chhattisgarh; **above normal (1.6°C to 3.0°C)** at many places over West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Lakshadweep; at a few places over Odisha, Telangana, Konkan & Goa, Coastal Karnataka, North Interior Karnataka, Marathwada; at isolated places over Jharkhand, East Uttar Pradesh. They were **appreciably below normal (-3.1°C to -5.0°C)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand; at a few places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh; at isolated places over Rajasthan; **below normal (-1.6°C to -3.0°C)** at a few places over Andaman & Nicobar Islands, Vidarbha, Tamil Nadu, Puducherry & Karaikal; at isolated places over Gujarat Region and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 17.2°C** was reported at **Seoni (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 06-06-2023):** Maximum temperatures were **markedly above normal (5.1°C or more) at most places** over Arunachal Pradesh; **at many places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Bihar; at a few places over Gangetic West Bengal and at isolated places over Coastal Andhra Pradesh & Yanam; **appreciably above normal (3.1°C to 5.1°C)** at many places over Kerala & Mahe and Karnataka; at a few places over Chhattisgarh, Odisha, Telangana and Rayalaseema; and at isolated places over Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at many places over Vidarbha, Konkan & Goa and Lakshadweep; at a few places over Marathawada and at isolated places over East Uttar Pradesh and East Madhya Pradesh. They were **appreciably below normal (-3.1°C to -5.1°C)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at a few places over Haryana, Chandigarh & Delhi and Himachal Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Rajasthan and at isolated places over Gujarat Region and West Madhya Pradesh and at isolated places over and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 44.2°C** was reported at **Bapatla (Coastal Andhra Pradesh & Yanam)**.

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.
- ❖ The **Cyclonic Storm "Biparjoy" (pronounced as "Biporjoy")** over eastcentral and adjoining southeast Arabian Sea moved nearly northwards with a speed of 2 kmph during last 6 hours, intensified into a Severe Cyclonic Storm and lay centered at 0530 hours IST of 07th June, 2023 over the same region near latitude 12.6°N and longitude 66.1 °E, about 890 km west-southwest of Goa, 1000 km southwest of Mumbai, 1070 km south-southwest of Porbandar and 1370 km south of Karachi. It is likely to move nearly northwards during next 24 hours and intensify into a **Very Severe Cyclonic Storm**. It would then move north-northwestwards during subsequent 3 days.
- ❖ The Western Disturbance as a cyclonic circulation over Jammu & Kashmir and neighbourhood in mid-tropospheric levels persists.
- ❖ The induced cyclonic circulation over Punjab & adjoining central Pakistan extending upto 1.5 km above mean sea level persists.
- ❖ The trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 82°E and to the north of Lat. 27°N persists.
- ❖ The cyclonic circulation over south Chhattisgarh & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The trough from east Bihar to Telangana from northeast Madhya Pradesh to North Interior Karnataka across Vidarbha and 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 12th June, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ Maximum Temperatures Forecast:
 - **Northwest India:** Gradual rise in maximum temperature by 2-4°C very likely during next 4-5 days.
 - **Central India:** Rise in maximum temperature by 2-3°C during next 2 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 12th -14th June, 2023)

- ❖ Scattered to Fairly widespread light/moderate rainfall with thunderstorm likely to continue over northeast India, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Coastal & South Interior Karnataka and Islands.
- ❖ Dry weather over rest parts of the country.

Weather Warning during next 5 days

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

♦ **Thunderstorm with lightning & squally winds (speed 50-60 kmph)** very likely at isolated places over West Rajasthan; **with lightning & gusty winds (speed 40-50 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over West Uttar Pradesh, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffar abad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat Wave to severe heat wave conditions** likely in some pockets over Bihar and **heat wave conditions** in isolated pockets over east Uttar Pradesh, northeast Jharkhand, West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal.

♦ **Gale wind speed reaching 70-80 kmph gusting to 90 kmph** is likely to prevail over eastcentral Arabian Sea and adjoining areas of southeast Arabian. It is likely to become 80-90 kmph gusting to 100 kmph from evening of 7th June over the same area. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely over adjoining areas of westcentral & south Arabian Sea and along & off north Kerala-Karnataka-Goa coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

08 June (Day 2): ♦ **Heavy rainfall** likely at isolated places over Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Rajasthan, Telangana, Rayalaseema, Karnataka, Kerala & Mahe and Lakshadweep.

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

♦ **Gale wind speed reaching 90-100 kmph gusting to 110 kmph** is likely to prevail over east central Arabian Sea and adjoining areas of westcentral & south Arabian and it is likely to become 95-105 kmph gusting to 115 kmph from evening of 8th June over the same area. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely along & off Karnataka-Goa-Maharashtra coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

09 June (Day 3): ♦ **Heavy rainfall** likely at isolated places over Kerala & Mahe and South Interior Karnataka.

♦ **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 North Interior Karnataka; **with lightning** at isolated places over Rajasthan, Gujarat state, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

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

♦ **Gale wind speed reaching 105-115 kmph gusting to 125 kmph** is likely to prevail over eastcentral & adjoining westcentral Arabian Sea and it is likely to become 125-135 kmph gusting to 150 kmph from evening of 9th June over the same area. Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely over adjoining areas of South Arabian Sea. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely along & off Karnataka-Goa- Maharashtra coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

10 June (Day 4): ♦ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka, Kerala & Mahe.

♦ **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 North Interior Karnataka; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Rajasthan, Gujarat state, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

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

♦ **Gale wind speed reaching 125-135 kmph gusting to 150 kmph** is likely to prevail over eastcentral & adjoining areas of westcentral Arabian Sea. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely over adjoining areas of south Arabian Sea and along & off north Karnataka-Goa-Maharashtra coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

11 June (Day 5): ♦ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Coastal & South Interior Karnataka, Kerala & Mahe.

♦ **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 North Interior Karnataka; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Rajasthan, Gujarat state, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

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

♦ **Gale wind speed reaching 125-135 kmph gusting to 150 kmph** is likely to prevail over eastcentral & adjoining areas of westcentral Arabian Sea. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely over adjoining areas of south Arabian Sea and along & off north Karnataka-Goa-Maharashtra coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.



Table-1

S. No.	Subdivision	07-Jun	08-Jun	09-Jun	10-Jun	11-Jun
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	SCT	SCT	FWS	WS	WS
3	ASSAM & MEGHALAYA	SCT	SCT	FWS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	FWS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	SCT	SCT	FWS	FWS
6	GANGETIC WEST BENGAL	ISOL	ISOL	DRY	DRY	ISOL
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	ISOL	DRY
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	ISOL	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	ISOL	SCT
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	ISOL	ISOL	DRY	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	SCT
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	DRY	ISOL	SCT
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY	DRY	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	DRY	DRY	ISOL	ISOL	ISOL
23	KONKAN & GOA	ISOL	ISOL	SCT	SCT	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	SCT	SCT	SCT
25	MARATHAWADA	DRY	DRY	SCT	SCT	SCT
26	VIDARBHA	DRY	DRY	DRY	ISOL	ISOL
27	CHHATTISGARH	DRY	DRY	DRY	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	SCT	ISOL	ISOL	ISOL	SCT
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	SCT
32	COASTAL KARNATAKA	SCT	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	SCT	SCT	SCT	FWS
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	FWS
35	KERALA & MAHE	FWS	FWS	WS	WS	WS
36	LAKSHADWEEP	WS	WS	WS	WS	WS

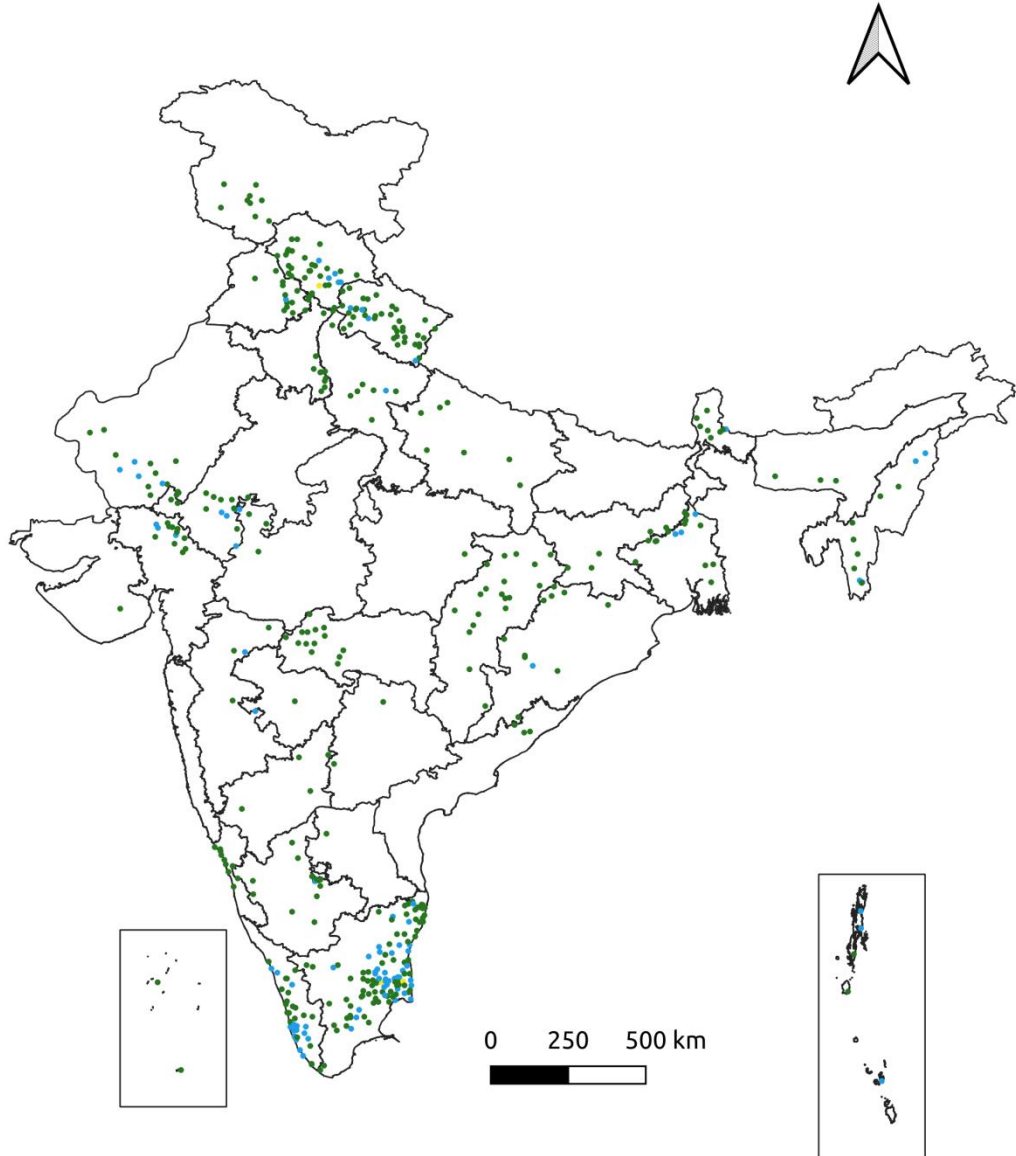
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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



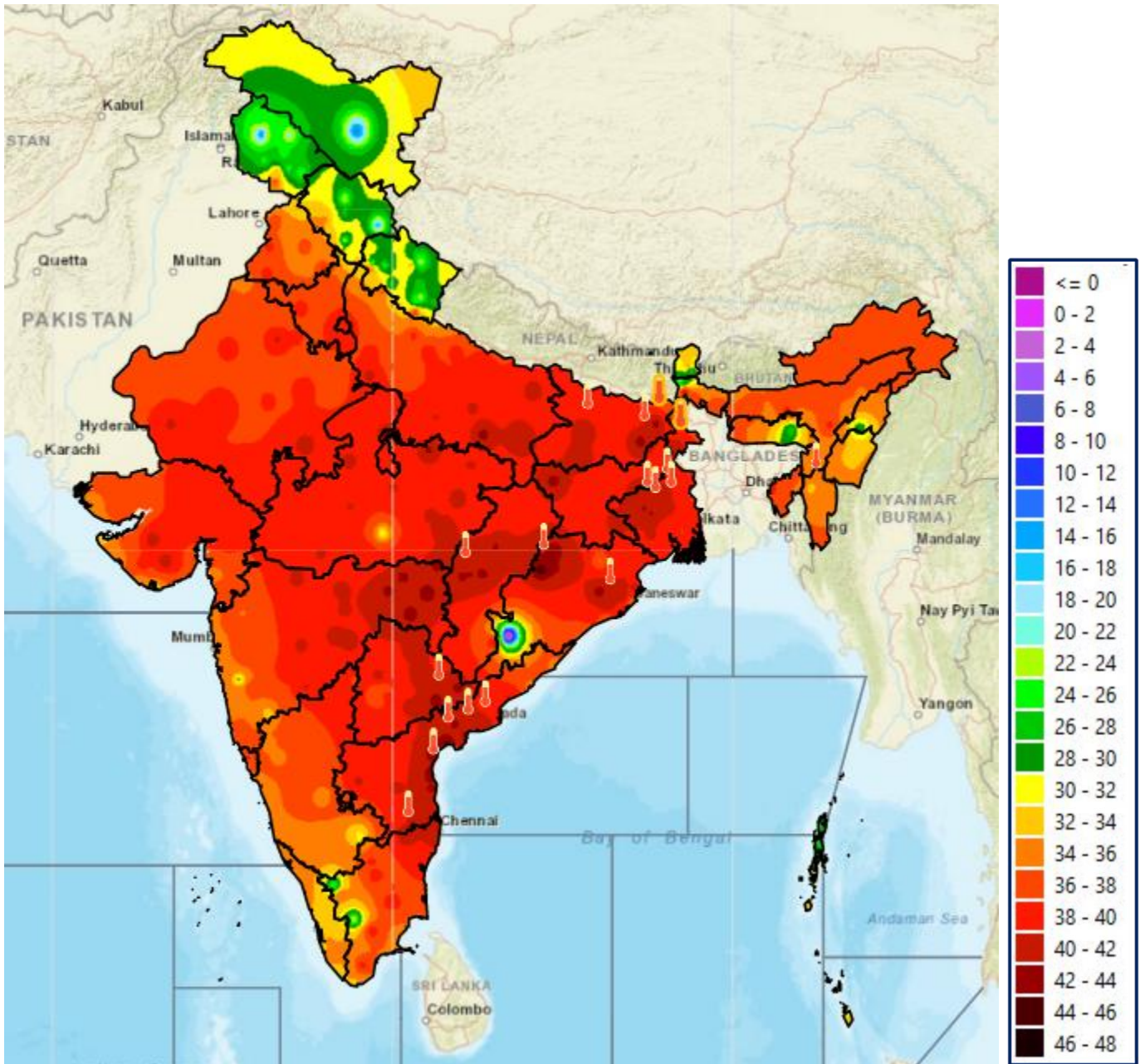
24 Hr cumulative rainfall recorded over different stations
during 0830 IST of 5-6-2023 to 0830 IST of 6-6-2023



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 06.06.2023



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Fig. 3: Minimum Temperatures Dated 06.06.2023

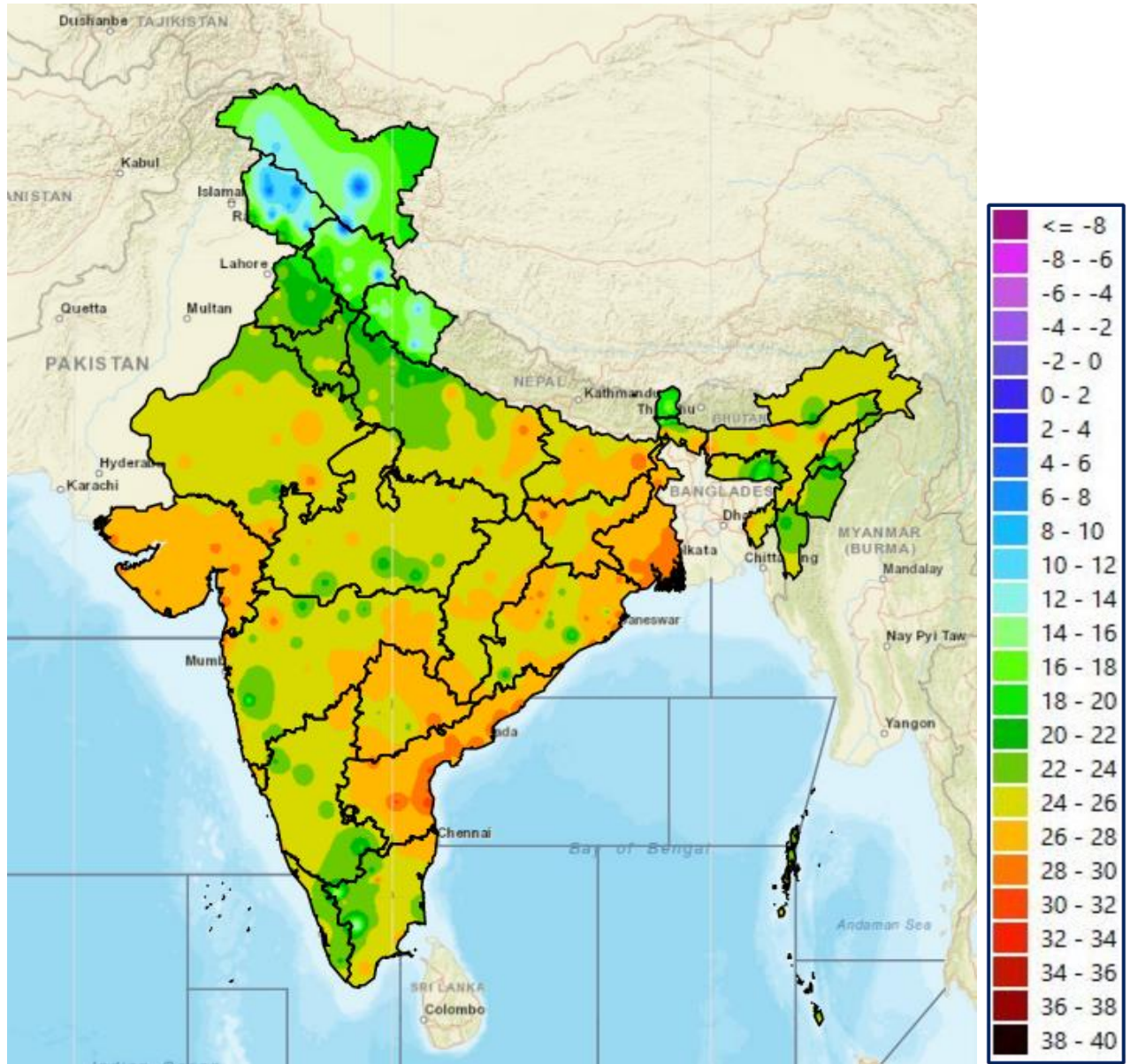


Fig. 4: Departure from Normal of Maximum Temperatures Dated 06.06.2023

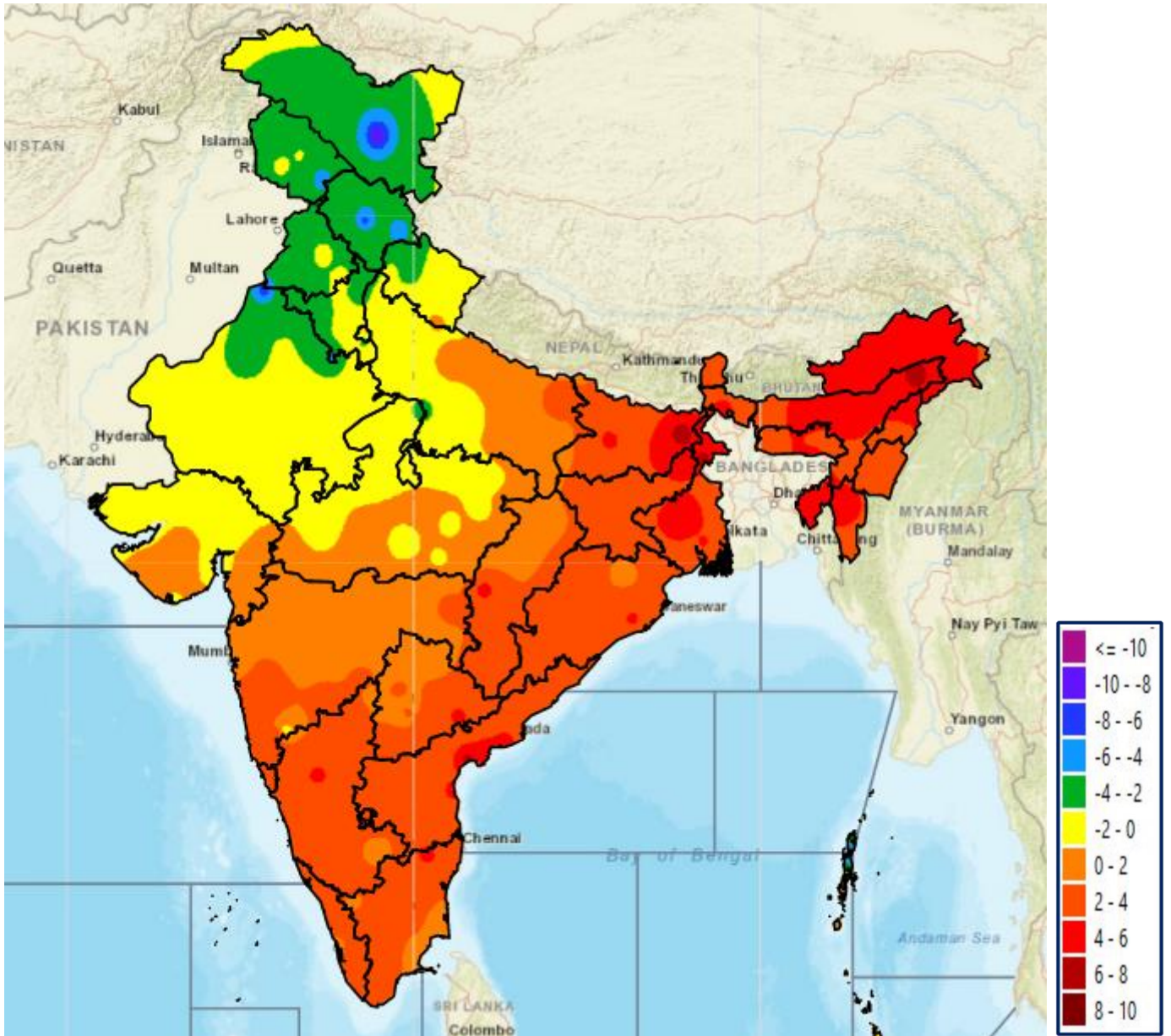


Fig. 5: Departure from Normal of Minimum Temperatures Dated 06.06.2023

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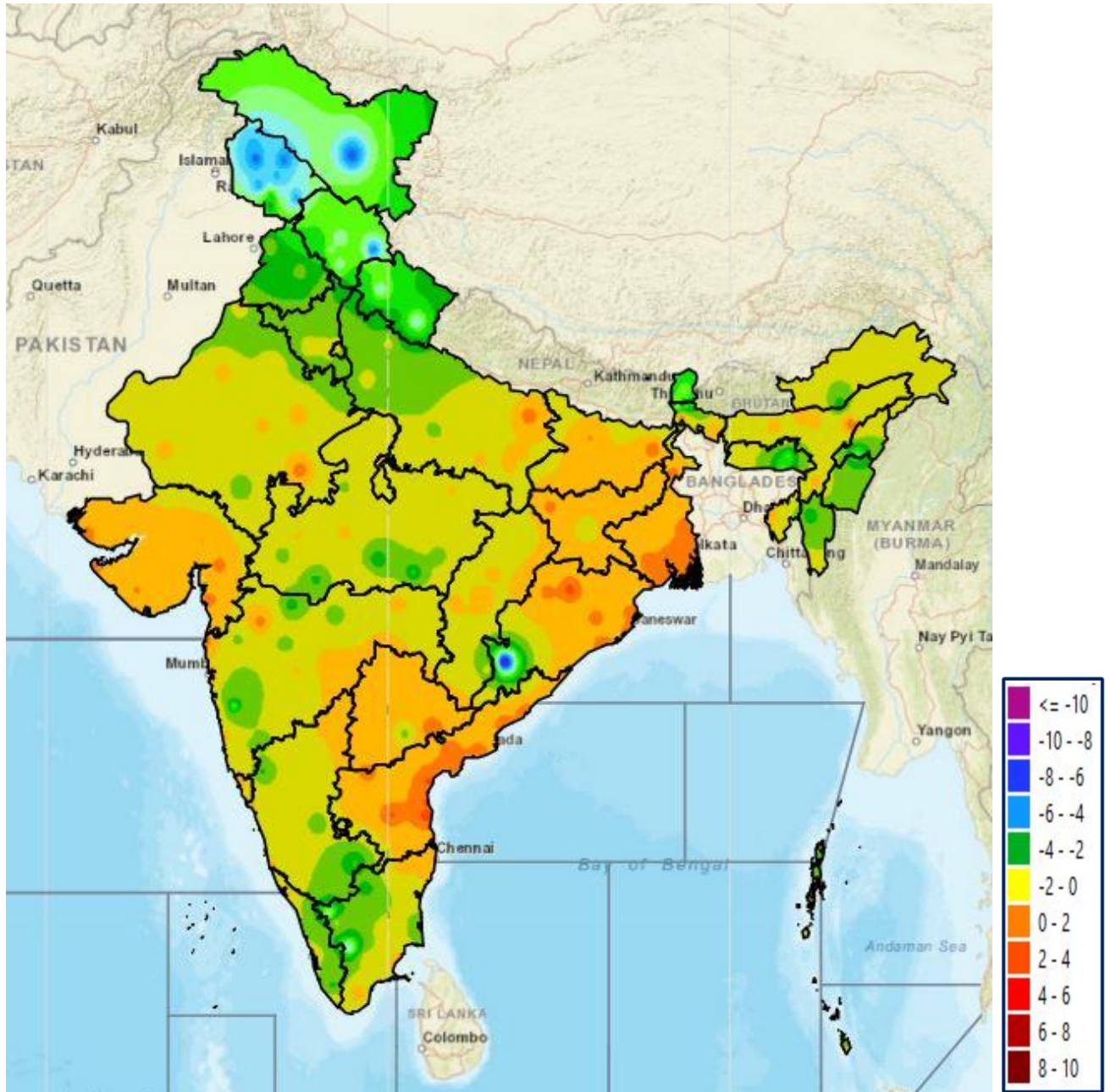
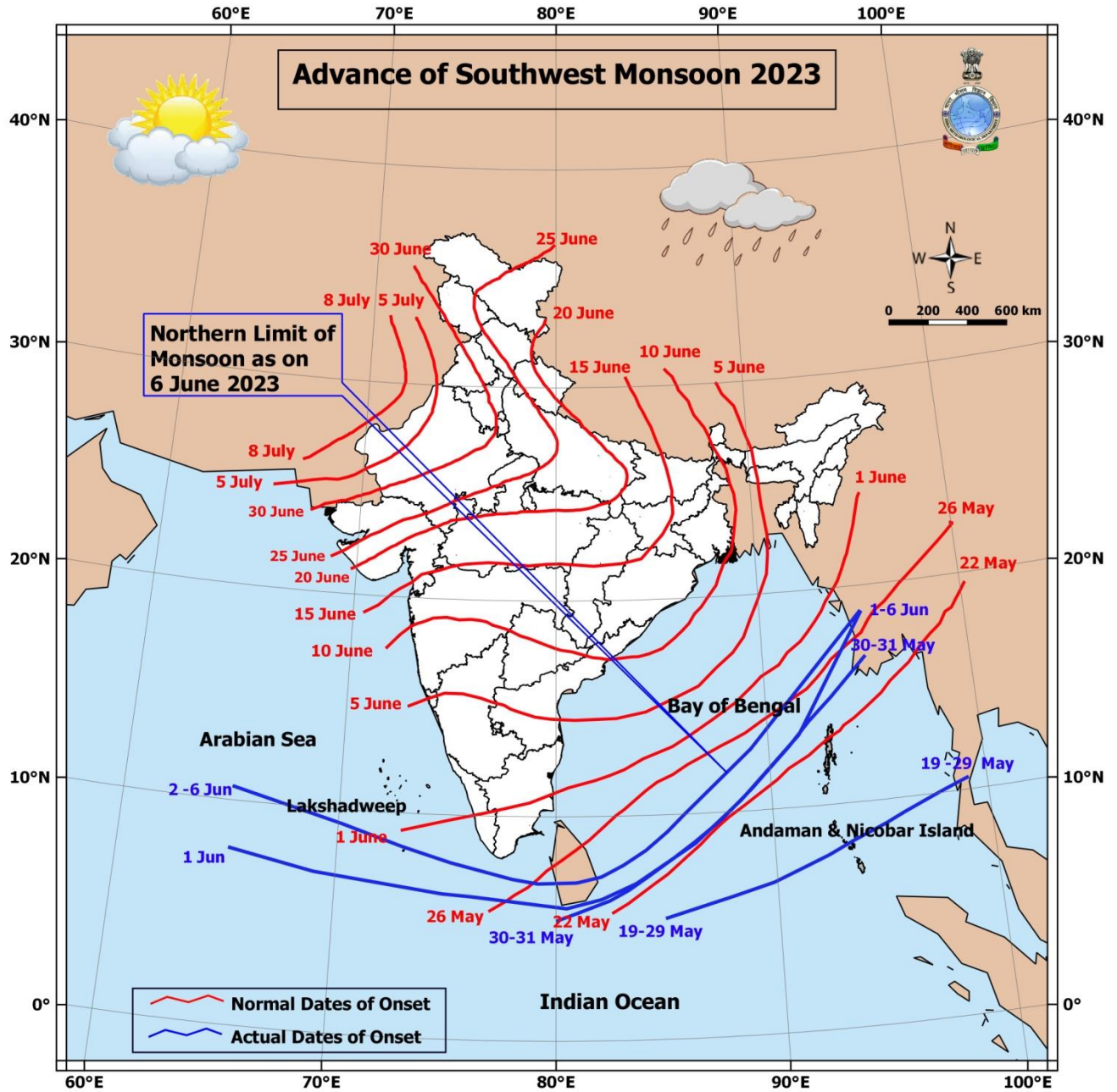
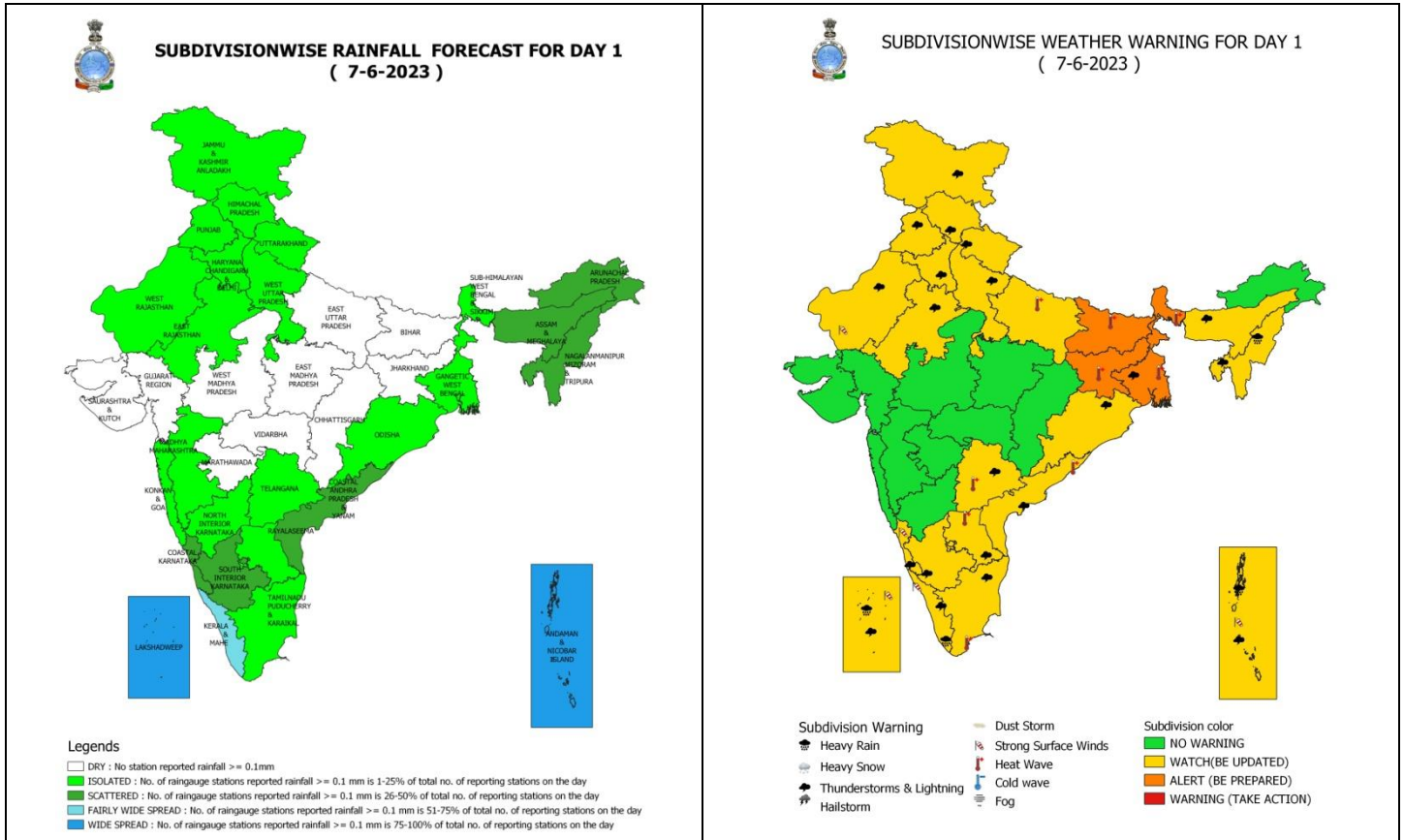


Fig. 6: Advance of Southwest Monsoon

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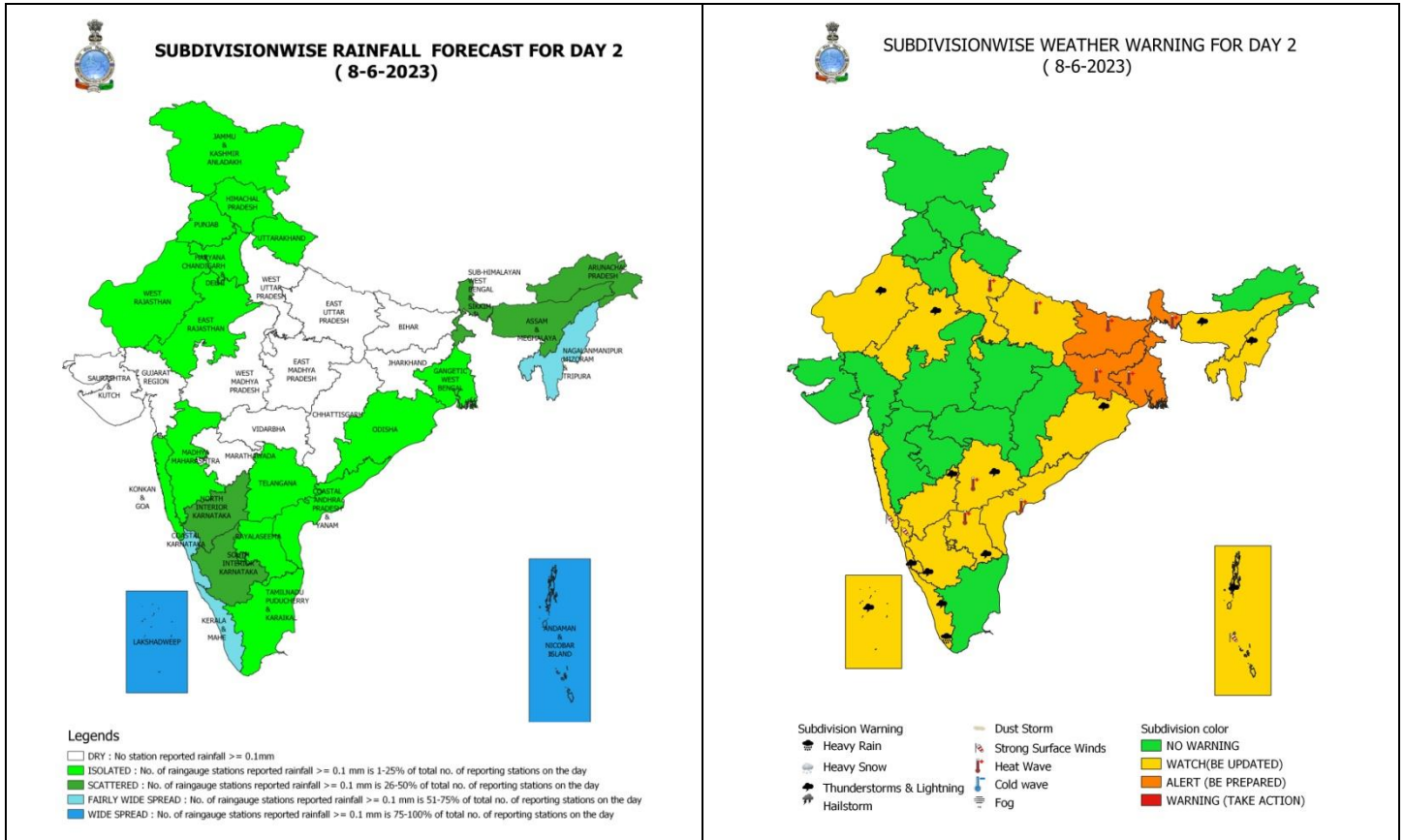


07 June (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, Manipur, Mizoram, Kerala & Mahe and Lakshadweep.

♦ **Thunderstorm with lightning & squally winds (speed 50-60 kmph)** very likely at isolated places over West Rajasthan; **with lightning & gusty winds (speed 40-50 kmph)** at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over West Uttar Pradesh, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat Wave to severe heat wave conditions** likely in some pockets over Bihar and **heat wave conditions** in isolated pockets over east Uttar Pradesh, northeast Jharkhand, West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal.

♦ **Gale wind speed reaching 70-80 kmph gusting to 90 kmph** is likely to prevail over eastcentral Arabian Sea and adjoining areas of southeast Arabian. It is likely to become 80-90 kmph gusting to 100 kmph from evening of 7th June over the same area. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely over adjoining areas of westcentral & south Arabian Sea and along & off north Kerala-Karnataka-Goa coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.



08 June (Day 2): ♦ Heavy rainfall likely at isolated places over Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Rajasthan, Telangana, Rayalaseema, Karnataka, Kerala & Mahe and Lakshadweep.

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

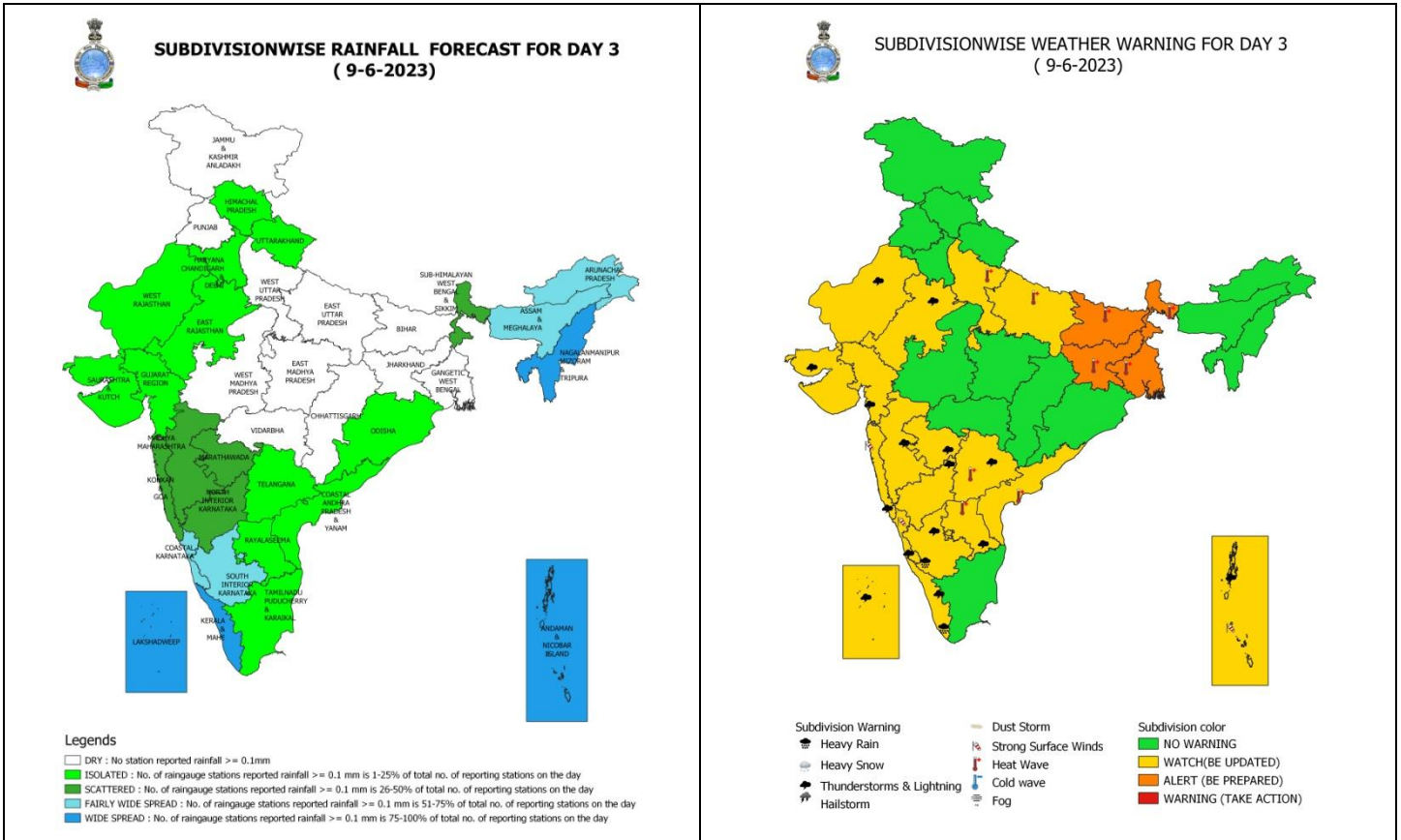
♦ **Gale wind speed reaching 90-100 kmph gusting to 110 kmph** is likely to prevail over east central Arabian Sea and adjoining areas of westcentral & south Arabian and it is likely to become 95-105 kmph gusting to 115 kmph from evening of 8th June over the same area. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely along & off Karnataka-Goa-Maharashtra coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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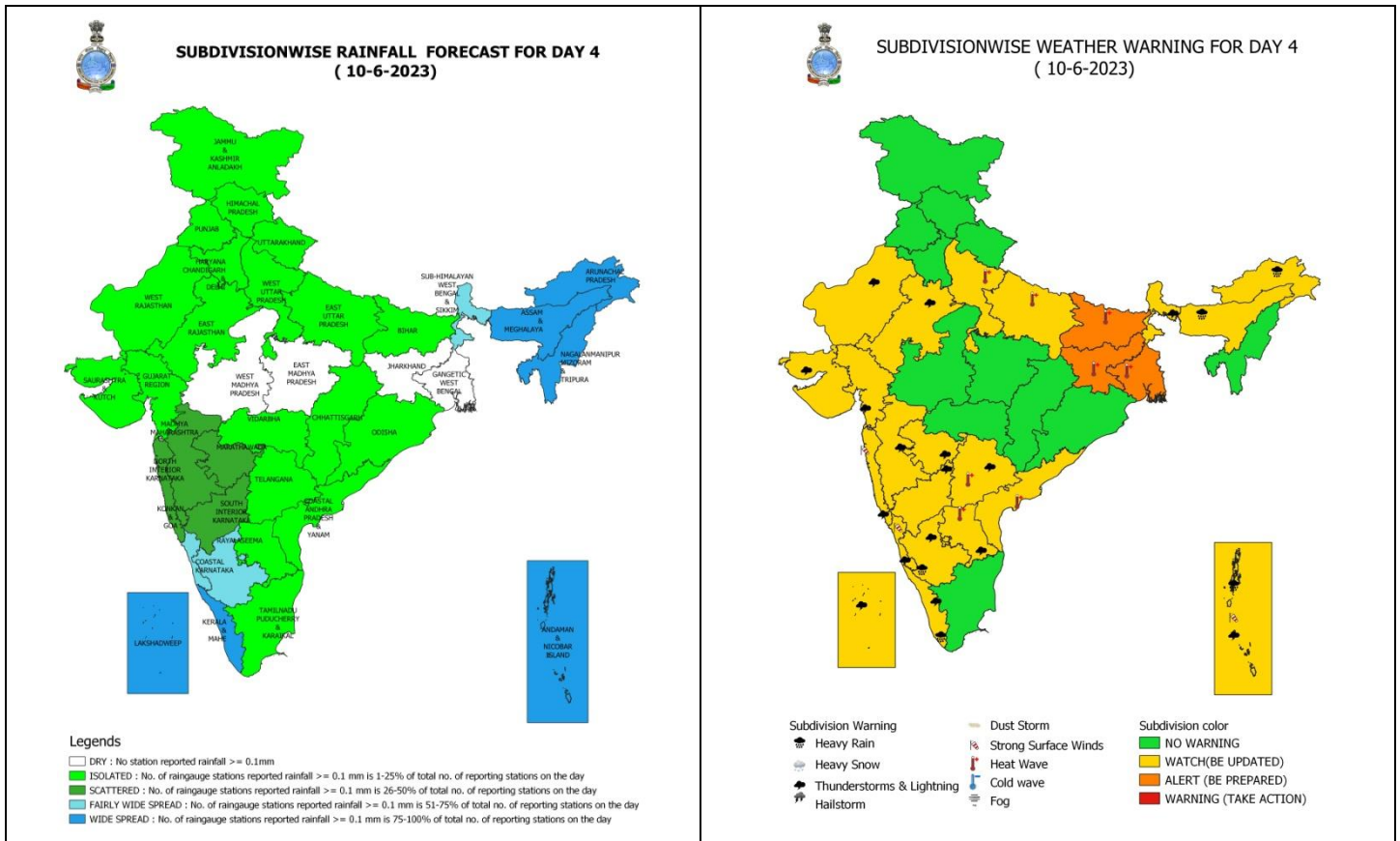


09 June (Day 3): ♦ **Heavy rainfall** likely at isolated places over Kerala & Mahe and South Interior Karnataka.

♦ **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 North Interior Karnataka; **with lightning** at isolated places over Rajasthan, Gujarat state, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

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

♦ **Gale wind speed reaching 105-115 kmph gusting to 125 kmph** is likely to prevail over eastcentral & adjoining westcentral Arabian Sea and it is likely to become 125-135 kmph gusting to 150 kmph from evening of 9th June over the same area. Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely over adjoining areas of South Arabian Sea. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely along & off Karnataka-Goa- Maharashtra coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.



10 June (Day 4): ♦ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka, Kerala & Mahe.

♦ **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 North Interior Karnataka; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Rajasthan, Gujarat state, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

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

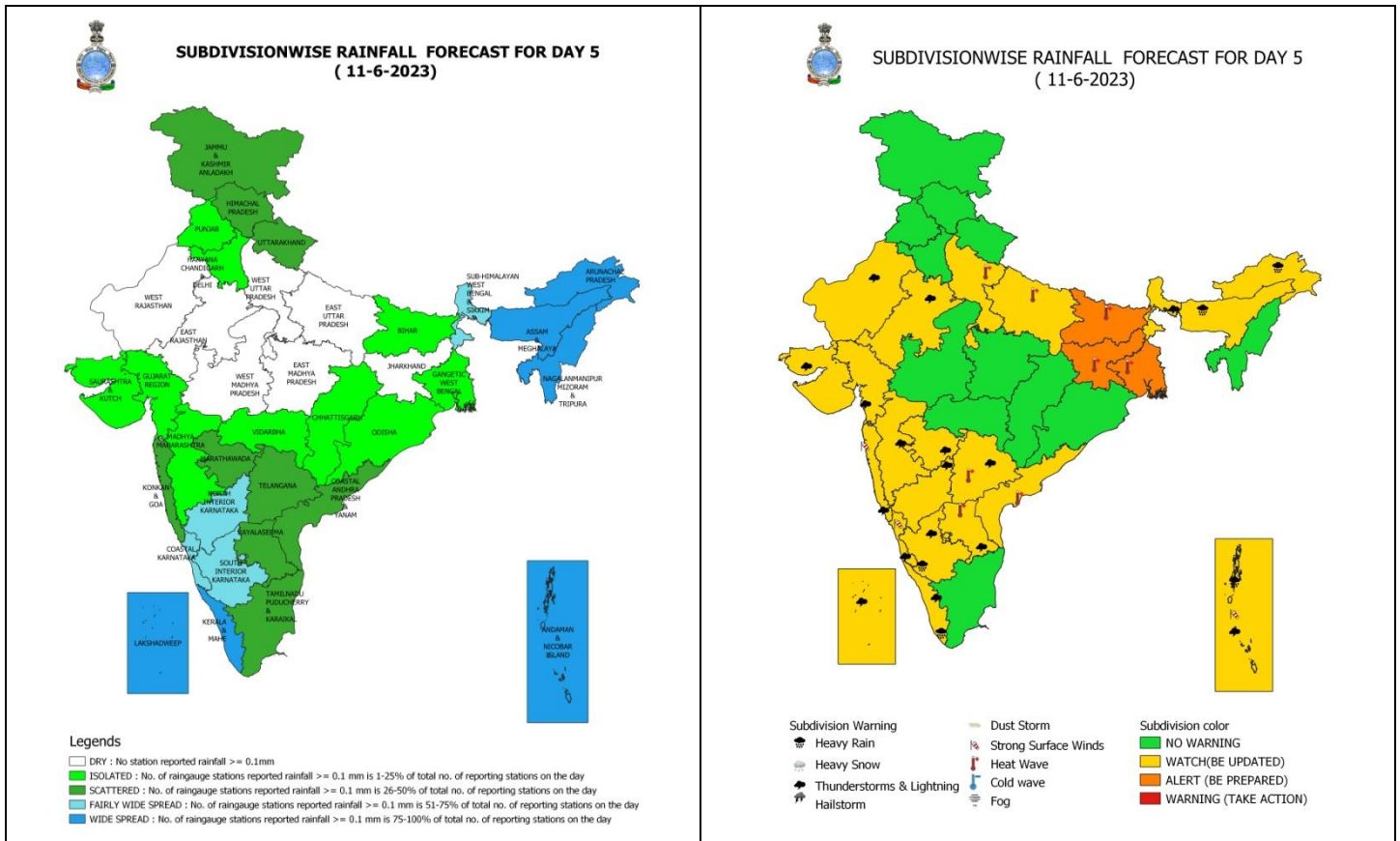
♦ **Gale wind speed reaching 125-135 kmph gusting to 150 kmph** is likely to prevail over eastcentral & adjoining areas of westcentral Arabian Sea. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely over adjoining areas of south Arabian Sea and along & off north Karnataka-Goa-Maharashtra coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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11 June (Day 5): ♦ **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Coastal & South Interior Karnataka, Kerala & Mahe.

♦ **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 North Interior Karnataka; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Rajasthan, Gujarat state, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep.

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

♦ **Gale wind speed reaching 125-135 kmph gusting to 150 kmph** is likely to prevail over eastcentral & adjoining areas of westcentral Arabian Sea. **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** is likely over adjoining areas of south Arabian Sea and along & off north Karnataka-Goa-Maharashtra coasts. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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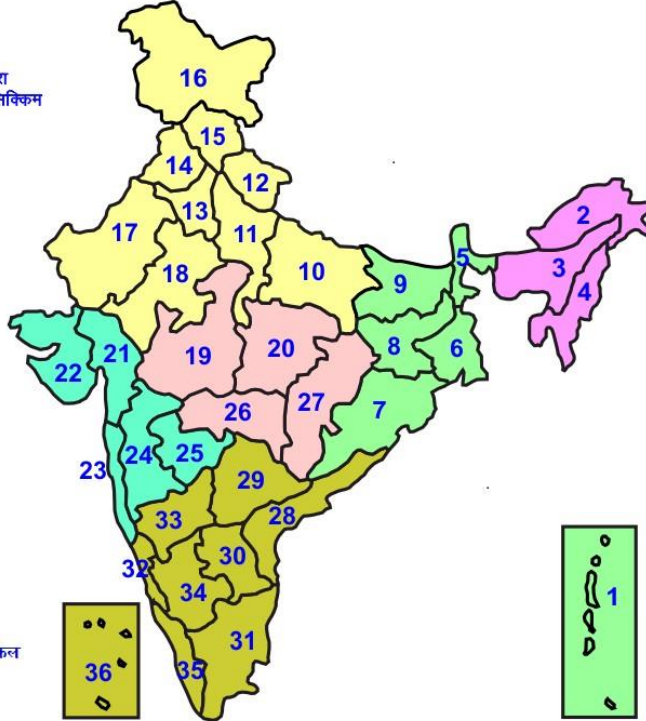
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LEGENDS

- 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 गंगेय बंगाल
- 7 ओडिसा
- 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 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. 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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