

**Tuesday, May 09, 2023**  
**Time of Issue: 1330 hours IST**  
**(MID-DAY)**

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### **Significant Meteorological features:**

- ❖ The low pressure area over Southeast Bay of Bengal and adjoining South Andaman Sea has become Well Marked Low pressure Area over the same region at 0530 hours IST of today, the 9<sup>th</sup> May 2023. It is very likely to intensify into a depression by today evening over the same region and subsequently into a cyclonic storm over southeast Bay of Bengal and adjoining areas of eastcentral Bay of Bengal and Andaman Sea on 10<sup>th</sup> May. It is likely to move initially north-northwestwards till 11<sup>th</sup> May. Thereafter, it is likely to recurve gradually and move north-northeastwards towards Bangladesh-Myanmar coasts.
- ❖ A trough runs from Westcentral Bay of Bengal to cyclonic circulation associated with the Well Marked Low Pressure Area over Southeast Bay of Bengal & adjoining south Andaman Sea and extends upto middle tropospheric levels, tilting southwestwards with height.
- ❖ A Trough/Wind Discontinuity runs from Telangana to south Tamil Nadu in lower tropospheric levels.

#### **Forecast and warning in association with Well Marked Low Pressure Area over Southeast Bay of Bengal & adjoining South Andaman Sea:**

##### **Warnings:**

##### **(i) Rainfall (warning graphics enclosed)**

- ❖ **Andaman & Nicobar Islands:** Rainfall at most places with Heavy to very heavy rainfall at isolated places is likely during 9<sup>th</sup> to 11<sup>th</sup> May. Heavy rainfall at isolated places over Andaman Islands is likely on 12<sup>th</sup> May.

##### **(ii) Fishermen Warning (warning graphics enclosed)**

- ❖ Fishermen, small ships, boats and trawlers are advised not to venture into southeast and central Bay of Bengal and Andaman Sea from 9<sup>th</sup> May onwards.
- ❖ Those over central Bay of Bengal and north Andaman Sea are advised to return by today, the 9<sup>th</sup> May.

##### **(iii) Advisory**

- ❖ Regulation of tourism and offshore activities and shipping near Andaman and Nicobar Islands during 9<sup>th</sup> - 12<sup>th</sup> May and
- ❖ Regulation of shipping activity over the sea areas of southeast & central Bay of Bengal and Andaman Sea during 9<sup>th</sup> -13<sup>th</sup> May.

#### **Forecast and warning over rest parts of the country during next five days:**

##### **South India:**

- ❖ Thunderstorm/lightning/gusty winds with light/moderate scattered to fairly widespread rainfall very likely over Kerala & Mahe during next 5 days; Karnataka during next 3 days and with light isolated to scattered rainfall over rest parts of the region during next 2 days.
- ❖ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka on 09<sup>th</sup> May and over Kerala & Mahe and South Interior Karnataka during 09<sup>th</sup> - 11<sup>th</sup> May.

##### **Northeast India:**

- ❖ Scattered to fairly widespread rainfall likely over Arunachal Pradesh and isolated rainfall over Assam & Meghalaya during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura on 13<sup>th</sup> May.

#### **No significant weather likely over rest parts of the country.**

#### **Maximum Temperatures, its forecast and Heat Wave Warnings:**

- ❖ Yesterday, Maximum Temperatures were below 40°C over most parts of the country except parts of Rajasthan, north Gujarat, Uttar Pradesh, north Chhattisgarh, north Odisha, south Bihar and West Bengal, where these are between 40-42°C. Maximum Temperatures were above normal over many parts of East India and normal to below normal over the rest parts of the country.
- ❖ Maximum temperatures are very likely to increase by 3-5°C over most parts of the country during next 3-4 days except over East India where no significant change in maximum temperatures is likely.
- ❖ Due to humid air and high temperature, Hot and Discomfort weather is very likely over Gujarat during next 4-5 days and over Konkan on 10<sup>th</sup> & 11<sup>th</sup> May.
- ❖ **Heat wave conditions** very likely in isolated pockets over Bihar and West Bengal during 09<sup>th</sup> - 11<sup>th</sup> May.

**\* 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 hrs IST of yesterday to 0830 hrs IST of today):** at **most places over** Interior Karnataka; **at many places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Coastal Karnataka, Sub-Himalayan West Bengal & Sikkim; **at a few places** over Rayalaseema, Kerala & Mahe, Andaman & Nicobar Islands and **at isolated places** over Uttarakhand, Haryana, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Saurashtra & Kutch, Telangana, and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant rainfall recorded (from 0830 hrs IST of yesterday to 0830 hrs IST of today)** (in cm): **Tamil Nadu:** Mettupalayam (dist Coimbatore) 9, Virudhunagar (dist Virudhunagar), Virudunagar AWS (dist Virudhunagar) 7 each, **Kerala:** Myladumpara (Idukki district) 7, **South Interior Karnataka:** Sakleshpura (dist Hassan) 7, C R Patna (dist Hassan) 5, Konanur (dist Hassan) 5, **Coastal Karnataka:** Honavar Obsy (dist Uttara Kannada) 5, **North Interior Karnataka:** Gokak (dist Belagavi) 5, Kawadimatti Arg (dist Yadgir) 5, **Arunachal Pradesh:** Tuting (dist Upper Siang) 7; **Odisha:** Lamataput (dist Koraput) 7, **Madhya Maharashtra:** Chandgad (dist Kolhapur) 5, Ajra (dist Kolhapur) 4, **Rayalaseema:** Holagunda (dist Kurnool) 4, Duvvur (dist Ysr District) 3, **Coastal Andhra Pradesh:** Rapur (dist Spsr Nellore) 3; **Telangana:** Gandhari (dist Kamareddy) 4, Sikkim: east Sikkim-5, North Sikkim-4; **Konkan & Goa:** Dabolim N.a.s.- Navy (dist South Goa) 3, Guhagarh (dist Ratnagiri) 3, Dapoli\_agri (dist Ratnagiri) 3, **Jammu & Kashmir:** Ananatnag, Baramula, Bandipore-2 each
- ❖ **Heavy rainfall occurred (from 0830 hrs IST of yesterday to 0830 hrs IST of today):** at isolated places over Arunachal Pradesh, Tamil Nadu, Kerala and South Interior Karnataka.
- ❖ **Thunderstorm Observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today):** at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Islands, Konkan & Goa and Kerala & Mahe.
- ❖ **Hailstorm Observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today):** at isolated places over Himachal Pradesh.
- ❖ **Minimum Temperature Departures (as on 09-05-2023):** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at many places over Andaman & Nicobar Islands, West Bengal & Sikkim; at a few places over Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura and at isolated places over Saurashtra & Kutch, Odisha and Kerala. They are **markedly below normal (-5.1°C or less)** at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at isolated places over Uttarakhand; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Punjab; at many places over Haryana, Chandigarh & Delhi, West Rajasthan; at a few places over Himachal Pradesh, Madhya Pradesh; at isolated places over Vidarbha and Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at many places over Uttar Pradesh, East Rajasthan; at isolated places over Marathwada, Konkan & Goa and Assam & Meghalaya and **near normal** over rest parts of the country. Today, the **lowest minimum temperature** of 16.2°C reported at **Amritsar (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 08-05-2023):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Nagaland, Manipur, Mizoram & Tripura; **appreciably above normal (3.1°C to 5.0°C)** at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Bihar and Gangetic West Bengal; at isolated places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at a few places over Kerala & Mahe. They were **markedly below normal (-5.1°C or less)** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at isolated places over East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Vidarbha, Telangana and Madhya Maharashtra; at isolated places over West Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at most places over Rayalaseema; at many places over Uttarakhand, Punjab, Uttar Pradesh, Marathwada and Interior Karnataka; at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Rajasthan and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature** of 42.2°C was reported at **Daltonganj (Jharkhand)**.

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### Meteorological Analysis (Based on 0830 hours IST)

- ❖ The **Western Disturbance** now seen as a trough between 3.1 km & 5.8 km above mean sea level with its axis at 5.8 km above mean sea level roughly along Long. 75°E to the north of Lat. 30°N.
- ❖ The **cyclonic circulation** over Haryana & neighbourhood now lies over West Uttar Pradesh & neighbourhood and extends upto 1.5 km above mean sea level.
- ❖ The **cyclonic circulation** over east Bangladesh & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The **Well Marked Low Pressure Area** over Southeast Bay of Bengal and adjoining South Andaman Sea persists. It is very likely to intensify into a depression by today evening over the same region and subsequently into a cyclonic storm over southeast Bay of Bengal and adjoining areas of eastcentral Bay of Bengal and Andaman Sea on 10<sup>th</sup> May. It is likely to move initially north-northwestwards till 11<sup>th</sup> May. Thereafter, it is likely to recurve gradually and move north-northeastwards towards Bangladesh-Myanmar coasts.
- ❖ The trough now runs from Westcentral Bay of Bengal to **cyclonic circulation associated with the Well Marked Low Pressure Area** over Southeast Bay of Bengal & adjoining south Andaman Sea extending upto 5.8 km above mean sea level, tilting southwestwards with height.
- ❖ A trough/wind discontinuity runs from Telangana to south Tamil Nadu at 1.5 km above mean sea level.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from 12<sup>th</sup> May, 2023.

### Weather Forecast for next 5 days (Upto 0830 hours IST of 14th May, 2023)

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

#### **Maximum Temperatures Forecast and Heat Wave Warnings:**

- ❖ **Northwest & Central India:** Maximum temperatures are likely to rise by 2-4°C over most parts of the region during next 3 days and no significant change thereafter.
- ❖ **South India:** Maximum temperatures are likely to rise by 2-4°C over most parts of the region during next 5 days.
- ❖ **West India:** Maximum temperatures are likely to rise by 2-4°C over most parts of the region during next 3 days and no significant change thereafter.

### Weather Outlook for subsequent 2 days (During 14th-16th May, 2023)

- ❖ Scattered to fairly widespread light/moderate rainfall likely to continue over northeast India, south peninsular India and Islands. Isolated light rainfall likely over parts of Northwest India.
- ❖ Isolated to Scattered rainfall/snowfall over Western Himalayan Region and isolated rainfall over adjoining plains of northwest India.
- ❖ Dry weather over rest parts of the country.

## Weather Warning during next 5 days

**09 May (Day 1): ♦ Heavy to very heavy rainfall** very likely at isolated places over Nicobar Islands and **heavy rainfall** at isolated places over Andaman Islands, Arunachal Pradesh, Tamil Nadu, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & Squall (speed 60-70 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka.

♦ **Squally Wind (with wind speed reaching 45-55 kmph gusting to 65 kmph)** is likely to prevail over southeast Bay of Bengal, Andaman Sea, wind speed reaching 45-55 kmph gusting to 65 kmph prevails over Andaman & Nicobar Islands and speed reaching 50-60 kmph gusting to 70 kmph is very likely from evening of 9<sup>th</sup> May; **with wind speed reaching 40-50 kmph gusting to 60 kmph** over Eastcentral & Westcentral Bay of Bengal. Fishermen are advised not to venture into these areas.

♦ **Heat wave conditions** very likely in isolated pockets over Bihar and West Bengal.

**10 May (Day 2): ♦ Heavy to very heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands and **heavy rainfall** at isolated places over South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka.

♦ **Squally Wind (with wind speed reaching 55-65 kmph gusting to 75 kmph)** is likely to prevail over Andaman & Nicobar Islands and adjoining Andaman Sea; **(with wind speed reaching 50-60 kmph gusting to 70 kmph)** southeast, Eastcentral and adjoining Westcentral Bay of Bengal, Fishermen are advised not to venture into these areas.

♦ **Heat wave conditions** very likely in some parts over Gangetic West Bengal and in isolated pockets over Bihar and Sub-Himalayan West Bengal & Sikkim.

**11 May (Day 3): ♦ Heavy to very heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands and **heavy rainfall** at isolated places over South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Kerala & Mahe; **with lightning** at isolated places over South Interior Karnataka.

♦ **Gale Wind speed reaching 80-100 kmph gusting to 120 kmph** is likely to prevail over eastcentral Bay of Bengal ; **(with wind speed reaching 80-90 kmph gusting to 100 kmph)** over westcentral Bay of Bengal; **(with wind speed reaching 70-80 kmph gusting to 90 kmph)** over southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

♦ **Squally Wind (with wind speed reaching 55-65 kmph gusting to 75 kmph)** is likely to prevail over Andaman & Nicobar Islands and adjoining Andaman Sea. Fishermen are advised not to venture into these areas.

♦ **Heat wave conditions** very likely in isolated pockets over Bihar and West Bengal & Sikkim.

**12 May (Day 4): Heavy rainfall** very likely at isolated places over Andaman Islands.

♦ **Thunderstorm with lightning & Squall (speed 50-60 kmph gusting to 70 kmph)** likely at isolated places over Andaman Islands; **with lightning** at isolated places over Gangetic West Bengal and Kerala & Mahe.

♦ **Gale Wind speed reaching 130-140 kmph gusting to 150 kmph** is likely to prevail over eastcentral Bay of Bengal **(with wind speed reaching 100-110 kmph gusting to 120 kmph)** over westcentral Bay of Bengal, **(with wind speed reaching 80-90 kmph gusting to 100 kmph)** over southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

**13 May (Day 5): ♦ Heavy rainfall** likely at isolated places over Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning** likely at isolated places over Andaman Islands, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Gangetic West Bengal and Kerala & Mahe.

♦ **Gale Wind speed reaching 130-140 kmph gusting to 150 kmph** is likely to prevail over eastcentral Bay of Bengal **(with wind speed reaching 100-110 kmph gusting to 120 kmph)** over westcentral Bay of Bengal, Squally wind **(with wind speed reaching 50-60 kmph gusting to 70 kmph)** over southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

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Table-1

Subdivision	09-May	10-May	11-May	12-May	13-May
	Day 1	Day 2	Day 3	Day 4	Day 5
ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	FWS
ARUNACHAL PRADESH	FWS	SCT	ISOL	ISOL	SCT
ASSAM & MEGHALAYA	ISOL	ISOL	ISOL	ISOL	SCT
NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	ISOL	SCT	FWS
SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	DRY	DRY	ISOL
GANGETIC WEST BENGAL	DRY	DRY	DRY	ISOL	ISOL
ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL
JHARKHAND	DRY	DRY	DRY	DRY	DRY
BIHAR	DRY	DRY	DRY	DRY	ISOL
EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY
WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY
UTTARAKHAND	ISOL	DRY	DRY	DRY	ISOL
HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY
PUNJAB	DRY	DRY	DRY	DRY	DRY
HIMACHAL PRADESH	ISOL	DRY	DRY	DRY	ISOL
JAMMU & KASHMIR AND LADAKH	ISOL	DRY	DRY	ISOL	SCT
WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY
EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY
WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY
EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY
GUJARAT REGION	DRY	DRY	DRY	DRY	DRY
SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY
KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY
MADHYA MAHARASHTRA	ISOL	ISOL	DRY	DRY	DRY
MARATHAWADA	ISOL	DRY	DRY	DRY	DRY
VIDARBHA	ISOL	DRY	DRY	DRY	DRY
CHHATTISGARH	ISOL	DRY	DRY	DRY	DRY
COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	DRY	DRY	DRY
TELANGANA	ISOL	DRY	DRY	DRY	DRY
RAYALASEEMA	ISOL	ISOL	ISOL	DRY	DRY
TAMILNADU PUDUCHERRY & KARAIKAL	SCT	ISOL	ISOL	ISOL	ISOL
COASTAL KARNATAKA	FWS	FWS	SCT	SCT	SCT
NORTH INTERIOR KARNATAKA	FWS	FWS	ISOL	ISOL	ISOL
SOUTH INTERIOR KARNATAKA	FWS	FWS	SCT	SCT	SCT
KERALA & MAHE	FWS	FWS	FWS	FWS	FWS
LAKSHADWEEP	SCT	SCT	SCT	FWS	FWS

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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