

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 08th April, 2024. Time of Issue: 1230 hours IST

Subject: i) Light to moderate rainfall spell accompanied with thunderstorms, gusty winds likely over East India today and Central & adjoining Peninsular India during 08th-11th April, 2024. ii) Enhanced rainfall/thunderstorm activity likely to continue over Northeast India during next 2 days and decrease in intensity thereafter.

iii) Heat wave conditions likely to continue to prevail over parts of peninsular India during next 24 hours and abate thereafter.

iv) A wet spell of rainfall likely over Northwest India during 13th-15th April, 2024.

Realised weather during past 24 hours till 0830 hours IST of today: (details in Annexure I)

- Heat wave to severe heat wave conditions prevailed in some parts of south Coastal Andhra Pradesh and heat wave conditions in isolated pockets over Tamil Nadu, North Interior Karnataka, Rayalaseema and Telangana.
- Heavy rainfall observed over Odisha.
- Light/Moderate rain accompanied with thunderstorm observed over many parts of Madhya Pradesh and Chhattisgarh; over some parts of Vidarbha and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan, West Bengal & Sikkim, Jharkhand and Odisha.

Weather Systems and Forecast & Warnings: (Annexure II)

- A cyclonic circulation lies over northeast Assam in lower tropospheric levels. Under the influence of this system:
 - ✓ Scattered to fairly widespread light/moderate rainfall/snowfall with isolated thunderstorms & lightning very likely over Arunachal Pradesh; scattered light to moderate rainfall with isolated thunderstorms, lightning & gusty winds over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 7 days.
- ✓ Isolated heavy rainfall also very likely over Arunachal Pradesh on 08th & 09th April, 2024.
- The trough/wind discontinuity runs from north Coastal Andhra Pradesh to south Tamil Nadu across Rayalaseema in lower tropospheric levels. Under its influence;
 - Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorms, lightning & gusty winds (30-50 kmph) very likely over Gangetic West Bengal, Jharkhand, Odisha and isolated rainfall over Bihar today and decrease in intensity thereafter.
 - Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorms, lightning & gusty winds (30-50 kmph) very likely over East Madhya Pradesh, Chhattisgarh, Vidarbha and isolated to scattered over West Madhya Pradesh, Marathwada, Madhya Maharashtra during 08th-12th April, 2024.
 - ✓ Isolated light/moderate rainfall accompanied with thunderstorms, lightning & gusty winds (30-50 kmph) very likely over Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal during 08th-14th April, 2024.
 - Hailstorm activity also very likely at isolated places over Vidarbha and Chhattisgarh on 08th April, 2024.

- Two Western Disturbances are likely to affect northwest India, the 1st from 10th April and the 2nd from 13th April, 2024. Under the influence of these systems:
 - Isolated to scattered light rainfall/snowfall with thunderstorms, lightning very likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand on 10th & 11th and scattered to fairly widespread light to moderate rainfall/snowfall during 13th-15th April, 2024.
 - ✓ Isolated light to moderate rainfall with thunderstorms, lightning very likely over Rajasthan during 10th-14th and scattered to fairly widespread rainfall with thunderstorms, lightning over Uttar Pradesh, Punjab and Haryana during 13th-15th April, 2024.

Maximum temperature observation and forecast for next 5 days:

- Yesterday, maximum temperatures were in the range of 42-44°C over many parts of Rayalaseema; in isolated pockets over south coastal Andhra Pradesh & North Interior Karnataka and in the range of 40-42°C over many parts of Telangana & north Tamil Nadu, in isolated pockets over Kerala, Coastal Andhra Pradesh, Madhya Maharashtra, Marathwada & southwest Madhya Pradesh. They were above normal by 2-5°C over the region.
- Yesterday, the maximum temperature exceeded 98th percentile over some parts of Vidarbha, Madhya Maharashtra, South Interior Karnataka & south interior Odisha and in isolated pockets over Kerala, north Interior Tamil Nadu & Rayalaseema. The maximum temperature likely to exceed 98th percentile at isolated pockets over north Interior Tamil Nadu on 08th; Kerala, & Interior Karnataka during 08th-11th and over Rayalaseema on 08th & 09th April, 2024
- Today, Minimum temperatures are above normal by 2-5°C at isolated places over Telangana, north Coastal Andhra Pradesh & Yanam, Kerala & Mahe, north Madhya Maharashtra, Marathwada, West Rajasthan and west Assam.
- Gradual fall by about 2°C in maximum temperatures very likely over many parts of Northwest India during next 5 days.
- No significant change in maximum temperatures very likely over many parts of East India during next 24 hours and gradual rise by 3-5°C thereafter.
- Gradual fall by 2-4°C in maximum temperatures very likely over Maharashtra during next 5 days.
- No significant change in maximum temperatures very likely over rest parts of the country.

Heat wave, Warm Night and Hot & Humid weather warning for next 5 days:

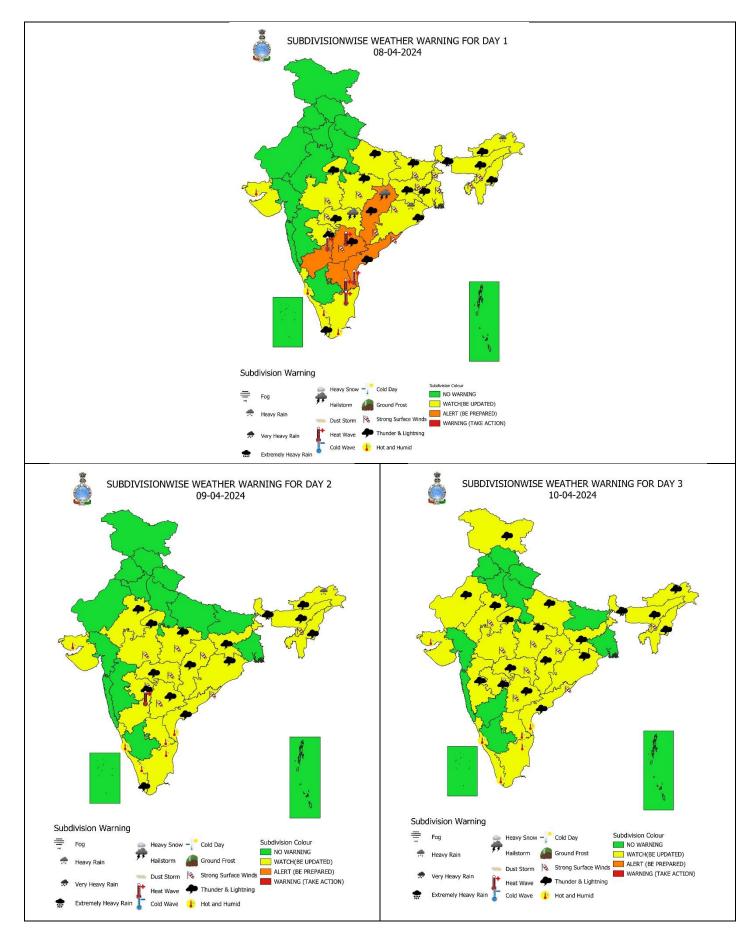
- ✤ Heat wave conditions very likely in isolated pockets over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana on 08th and North Interior Karnataka on 08th & 09th April, 2024.
- Warm night conditions very likely to prevail in isolated pockets over North Interior Karnataka on 08th & 09th April, 2024.
- Hot and humid weather very likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, coastal areas of Gujarat during 08th-12th, Coastal Karnataka during 08th-10th and over Coastal Andhra Pradesh & Yanam and Rayalaseema during 09th-12th April, 2024.

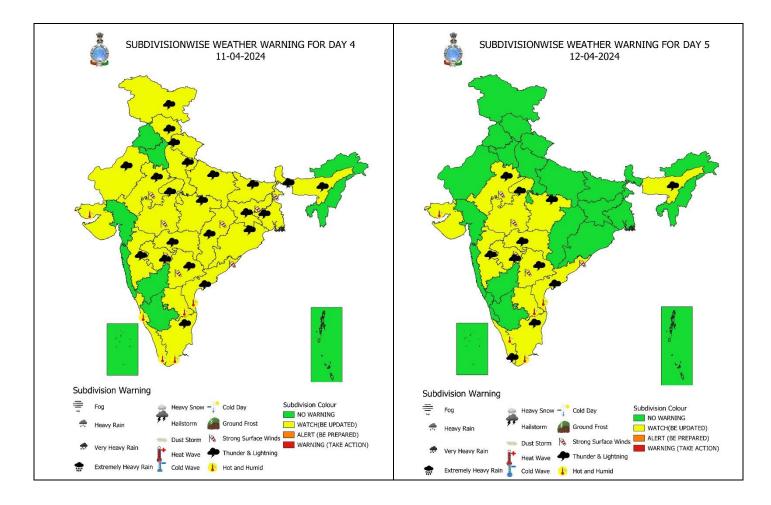
For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

Significant amount of rainfall (in cm):

- Odisha: Bhuban (dist Dhenkanal) 9, Hindol (dist Dhenkanal) 5, Gondia (dist Dhenkanal) 3, Dhenkanal (dist Dhenkanal) 3, Digapahandi (dist Ganjam) 3, Mahanga (Dist Cuttack) 3, Niali (dist Cuttack) 2, Kantapada (dist Cuttack) 2, Banarpal (dist Angul) 2;
- Assam & Meghalaya: Jonai Arg (dist Dhemaji) 3, Naharkatia Arg (dist Dibrugarh) 2, Nahar Katia (dist Dibrugarh) 2, Harinagar Arg (dist Karimganj) 1, Matijuri (dist Hailakandi) 1, Jiagaon (dist Tinsukia) 1, Margherita (dist Tinsukia) 1, Dholla Bazar (dist Tinsukia) 1, N.lakhimpur/lilabari (dist Lakhimpur) 1;
- Arunachal Pradesh: Nachu Arg (dist Upper Subansiri) 5, Tuting (dist Upper Siang) 5, Kamba Aws (dist West Siang) 3, Kibithu (dist Anjaw) 3, Hawai (dist Anjaw) 2, Oyan Arg (dist East Siang) 2, Mukto_arg (dist Tawang) 1, Pasighat_ Aero (dist East Siang) 1;
- Nagaland, Manipur, Mizoram & Tripura: Kadamtala Arg (dist North Tripura) 3, Kolasib Agri (dist Kolasib) 2, Saiha Agri (dist Saiha) 2, Lawngtlai Agri (dist Lawngtlai) 1, Kolasib_aws (dist Kolasib) 1, Thoubal (dist Thoubal) 1, Tamenglong (dist Tamenglong) 1, Lamphet_agri (dist Imphal West) 1, Saiha (dist Saiha) 1, Bishnupur (dist Bishnupur) 1;
- Gangetic West Bengal: AMFU Kakdwip (dist South 24 Parganas) 2, AMFU Kakdwip (dist North 24 Parganas) 1;
- Sub-Himalayan West Bengal & Sikkim: Mangan (dist North Sikkim) 1, Singhik (dist North Sikkim) 1;
- Chhattisgarh: Manpur (dist Rajnandgaon) 3, Gurur (dist Balod) 2, Dhamtari (dist Dhamtari) 2, Kurud (dist Dhamtari) 2, Dondilohara (dist Balod) 2;

ANNEXURE II





Impact & Action Suggested due to heavy rainfall over Arunachal Pradesh on 08th & 09th April, 2024.

Impacts Expected for Rain/Snow

- ✤ Disruption of Electricity.
- Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nallahs.
- Disruption of traffic flow.
- ✤ Damage to Kuccha and unsecured structures.

Suggested Actions

- Avoid roadway underpasses, drainage ditches, low lying areas and areas where water collects they can unexpectedly flood or overflow.
- Stay away from power lines or electrical wires.
- Son't stay in kuchcha houses during heavy rainfall as it may collapse anytime soon.
- Drive carefully.

Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds & Hailstorm over Central, Northeast & North peninsular India during next 4 days and east India today.

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.

- Minor damage to kutcha houses/walls and huts.
- ✤ Loose objects may fly.

Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

IMPACT & ACTION SUGGESTED due to Heat Wave Conditions during next 2 days:

Orange alert Areas (Coastal Andhra Pradesh, Rayalaseema, Telangana, North Interior Karnataka)

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ✤ Avoid heat exposure keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated

Yellow alert Areas (North Interior Tamil Nadu)

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

Agromet advisories for Heavy Rainfall, Gusty Winds, Hailstorm and Heat Wave likely over various parts of the country

- Harvest the matured crops, fruits and vegetables at the earliest and keep the harvested produce at safer places or cover the heaps of harvested produce in the fields with tarpaulin sheets.
- Drain out excess water from crop fields to avoid water stagnation in Arunachal Pradesh and postpone fresh sowing of rice, cowpea/ lobia, soybean, vegetables and maize in *Jhum* and cover the already-sown crops with farm residues or paddy straw.
- ➤ Use hail nets or hail caps in fruit orchards to protect them from mechanical damage in Vidarbha and Chhattisgarh.
- Provide mechanical support to horticultural crops and staking to vegetables in Central India, East India, Coastal Andhra Pradesh, Telangana and North-Eastern States.
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in Tamil Nadu, North Interior Karnataka, Andhra Pradesh and Telangana.3
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in Tamil Nadu, Interior Karnataka, Andhra Pradesh, Telangana and Odisha.

Legends & abbreviations:

- ✤ Heavy Rain:64.5-115.5mm; Very Heavy Rain:115.6-204.4mm; Extremely Heavy Rain: >204.4mm.
- ✤ Obsy: Observatory; AWS: Automatic Weather Station; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office.
- ***** Region wise classification of meteorological Sub-Divisions:
 - Northwest India: Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - Central India: West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

	SPATIAL	DISTRIBUT	ION (% c	of Stations reporting)
% Stations	Categor	У	% Stations	Category
76-100	Widespread (WS	/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (F)	NS/ Many Places)	1-25	Isolated (ISOL)
🌧 Heavy	/ Rain / Snow derstorms & Lightnin	Heat Wave	face Winds	Subdivision color NO WARNING WATCH(BE UPDATED) ALERT (BE PREPARED) WARNING (TAKE ACTION)
		Probabilisti	c Forecast	

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

	LEGENDS WARNING Pro	babilistic Forecast			
	The state of the s	2 N			
	WARNING (TAKE ACTION) Terms Unlikely	Probability of Occurrence (%) < 25			
	Likely	25 - 50			
	NO WARNING (NO ACTION) Most Like				
10		·7 / 70			
	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm*				
ain/ Snow *	Extremely Heavy: > 204.4 mm/cm *				
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regio (a) Based on Departure from normal Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.				
8.	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C				
8+	(b). Based on Actual maximum temperature				
eat Wave	Heat Wave: When actual maximum temperature ≥45°C.				
	Severe Heat Wave: When actual maximum temperature ≥47°C				
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from norm temperature ≥37°C	al. Heat Wave may be described provided maximu			
Î+	When maximum temperature remains 40°C				
arm Night	Warm Night: When minimum temperature departure 4.5 °C Severe Warm Night: When minimum temperature departur				
	Concrete training the trian minimum temperature departur				
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.				
0-	Severe Cold Wave: Minimum Temperature Departure from				
9	(b) Based on actual Minimum Temperature (for Plains only)				
old Wave	Cold Wave : When Minimum Temperature is ≤ 4.0 °C				
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C				
	(c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C				
		·			
When minimum temperature of a station ≤10°C for plains and ≤0°C for Based on departure					
9-	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.				
Cold Day	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C				
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km				
Ø	Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50- 200 metres				
-					
Fog	Very Dense Fog: when the visibility < 50 metres				
<i>FF</i> Inderstorm	Sudden electrical discharges manifested by a flash sound (thunder)	of light (Lightning) and a sharp rumbling			
Dust/Sand Storm	An ensemble of particles of dust or sand energetic turbulent wind.	ally lifted to great heights by a strong and			
<u> </u>	Ice deposits on ground				
//	Air temperature ≤4°C (over Plains)				
Frost					
\sim	A strong wind that rises suddenly, lasts for	atleast 1 minute.			
47	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph				
Sauall	Very Severe: Wind speed >87 kmph				
Squali					
Squaii					
	Effect of various waves in the sea over specific an Rough to very rough: Wind speed 41-62 kmph (22-33 knc)				
Squall	Rough to very rough: Wind speed 41-62 kmph (22-33 kmc High to very high: Wind speed 63-117 kmph (34-63 knots)	& Wave height 6-14 metre			
Squan Gea State	Rough to very rough: Wind speed 41-62 kmph (22-33 knd				
6.6	Rough to very rough: Wind speed 41-62 kmph (22-33 knot High to very high: Wind speed 63-117 kmph (34-63 knots) Phenomenal: Wind speed >117 kmph (>63 knots) & Wave				
(Rough to very rough: Wind speed 41-62 kmph (22-33 knc High to very high: Wind speed 63-117 kmph (34-63 knots) Phenomenal: Wind speed >117 kmph (>63 knots) & Wave Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)	height >14 metre			
""	Rough to very rough: Wind speed 41-62 kmph (22-33 knot High to very high: Wind speed 63-117 kmph (34-63 knots) Phenomenal: Wind speed >117 kmph (>63 knots) & Wave	height >14 metre			
""	Cyclonic Storm: Wind speed 62-87 kmph (22-33 knc) Fight to very high: Wind speed 63-117 kmph (34-63 knots) Phenomenal: Wind speed >117 kmph (>63 knots) & Wave Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63	height >14 metre knots) (64 - 69 knots) kmph (90 -119 knots)			