



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 22nd March, 2024

Time of Issue: 1230 hours IST

Subject: Enhance rainfall with thunderstorm activity likely to continue over Northeast India and Sikkim during 22nd to 26th March, 2024.

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

- ❖ **Light to moderate rainfall/snowfall** observed at most places over Arunachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim; at a few places over Himachal Pradesh and at isolated places over Uttarakhand.
- ❖ **Light to moderate rainfall** observed at most places over Assam & Meghalaya; at many places over Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Odisha, Jharkhand, Bihar, Punjab, Haryana, Tamil Nadu, Puducherry & Karaikal, Kerala, Coastal Karnataka, South Interior Karnataka, Coastal Andhra Pradesh.
- ❖ **Heavy to very Heavy rainfall** at isolated places over Arunachal Pradesh and **Heavy rainfall** at isolated places over Assam & Meghalaya.
- ❖ **Hailstorm** observed at isolated places over Gangetic West Bengal.
- ❖ **Heat wave conditions** observed in isolated pockets over Saurashtra & Kutch.

Weather Systems and Forecast & Warnings: (Annexure II)

- ❖ A cyclonic circulation lies over northeast Assam & neighbourhood in lower to middle tropospheric levels. Under the influence of this systems:
 - ✓ Fairly widespread/widespread light to moderate rainfall with isolated thunderstorms & lightning very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during 22nd-26th March, 2024.
 - ✓ Isolated **heavy rainfall/snowfall** very likely over Arunachal Pradesh during 22nd, 23rd, 25th & 26th; over Sikkim on 23rd and isolated **heavy rainfall** over Assam & Meghalaya 23rd, 25th & 26th March, 2024.
 - ✓ Isolated to scattered light to moderate rainfall with isolated **thunderstorms, lightning** very likely over Gangetic West Bengal on 22nd; over Bihar on 23rd & 24th March.
- ❖ The Western Disturbance now seen as a trough in middle tropospheric westerlies roughly along Long. 70°E to the north of Lat. 32°N. Two fresh Western Disturbances are likely to affect Western Himalayan Region, the first from night of 23rd March and the second from night of 26th March, 2024. Under their influence:
 - ✓ Isolated to Scattered light rainfall/snowfall with isolated **thunderstorms & lightning** very likely over Himachal Pradesh, Uttarakhand on 22nd and over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 22nd – 24th March, 2024.

- ✓ Isolated to Scattered light rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 26th & 27th and increase in intensity on 28th March, 2024.
- ✓ Isolated to scattered light rainfall/snowfall over Uttarakhand during 23rd – 28th March.
- ✓ Isolated light rainfall with isolated **thunderstorms & lightning** very likely over Punjab on 22nd March, 2024.
- ✓ Isolated light rainfall likely over Punjab during 22nd - 24th and over Haryana on 22nd & 24th and north Rajasthan on 24th March, 2024.
- ✓ Strong surface winds are to prevail very likely over Punjab and Haryana during 22nd – 24th March, 2024.

Maximum temperature forecast for next 5 days:

- ❖ **Maximum temperatures** are below normal by 8-10°C over many parts of Gangetic West Bengal, Jharkhand; by 4-8°C over East Uttar Pradesh, Bihar, north Odisha, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; by 2-4°C over West Uttar Pradesh, Delhi, East Madhya Pradesh, Chhattisgarh, Telangana, Coastal Andhra Pradesh & Yanam. These are above normal by 2-4°C over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, West Rajasthan, Saurashtra & Kutch, Konkan & Goa and near normal over rest parts of the country.
- ❖ Gradual rise in maximum temperatures by 4-6°C very likely over East India during next 5 days.
- ❖ Gradual rise in maximum temperatures by 2-4°C very likely over Central India during next 72 hours and no large change thereafter.
- ❖ Gradual rise in maximum temperatures by 2-4°C very likely over Northwest India during next 4-5 days.
- ❖ No significant change in maximum temperatures very likely over rest part of the country during next 5 days.
- ❖ **Hot and humid weather** very likely to prevail over Rayalaseema, Kerala & Mahe during next 5 days; over Tamil Nadu, Puducherry & Karaikal during next 2 days.

Heat wave warning:

- ❖ **Heat wave conditions** very likely in isolated pockets over Saurashtra & Kutch during 22nd-26th March.

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

Significant rainfall amount (in cm):

Sub-Himalayan West Bengal & Sikkim: Sevoke (dist. Darjeeling) 10, KALIMPONG(dist. Darjeeling), Kalimpong (dist. Darjeeling) 3 each;

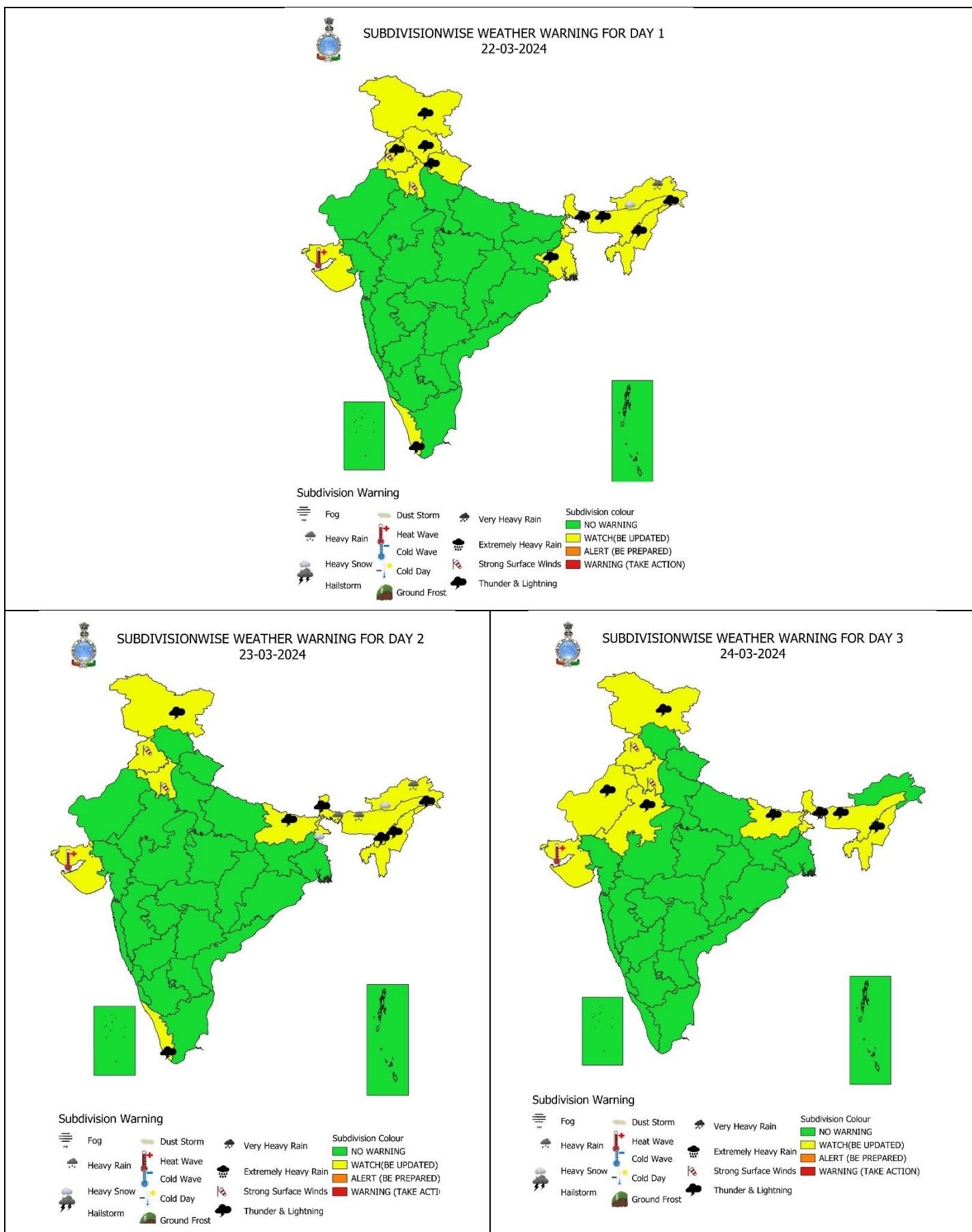
Tamil Nadu: Nalumukku (Dist. Tirunelveli) 4, Avudayarkoil (Dist. Pudukkottai) 2, Pulipatti (Dist. Madurai) 2;

Arunachal Pradesh: Bomdila_Aws (dist West Kameng) 9, Kalaktang (dist West Kameng) 4, Bomdila (dist West Kameng) 4, Seppa_Aws (dist East Kameng) 3, Kabu Basti (dist West Siang) 3, Itanagar (dist Papumpara) 3, Tawang_Aws (dist Tawang) 3, Roing (dist Lower Dibang Valley) 3, Tawang Chamgbu Kvk Aws (dist Tawang) 3, Ziro (dist Lower Subansiri) 2, Nachu Arg (dist Upper Subansiri) 2, Namsai Kvk Aws (dist Lohit) 2, Seppa (dist East Kameng) 2, Ziro_Arg (dist Lower Subansiri) 2, Tawang (dist Tawang) 2, Mukto_arg (dist Tawang) 2, Bameng Circle Aws (dist East Kameng) 2, Kamba Aws (dist West Siang) 2, Daparijo (dist Upper Subansiri) 2;

Assam & Meghalaya: Dhemaji (dist Dhemaji) 7, Dhekiajuli (dist Shonitpur) 4, Tezpur (dist Shonitpur) 4, Drf (dist Baksa) 4, Williamnagar (dist East Garo Hills) 3, Bhumuraguri (dist Shonitpur) 3, Udalgori_aws (dist Udalgori) 3, Majbat (dist Udalgori) 3, Ranganadi Nt Xing (dist Lakhimpur) 3, Dalgaon Arg (dist Darrang) 3, Goibargaon (dist Baksa) 3, Badatighat (dist Lakhimpur) 3, Mushalpur_aws (dist Baksa) 3, N.lakhimpur/lilabari (dist Lakhimpur) 2, Tamulpur Arg (dist Baksa) 2, Lanka Arg (dist Nagaon) 2, Lakhimpur Arg (dist Lakhimpur) 2, Khowang (dist Dibrugarh) 2, Dhansiri Arg (dist Karbi Anglong) 2, Bahalpur (dist Dhubri) 2, Chauldhawaghat (dist Lakhimpur) 2, Majuli (dist Jorhat) 2, Lumding (dist Nagaon) 2;

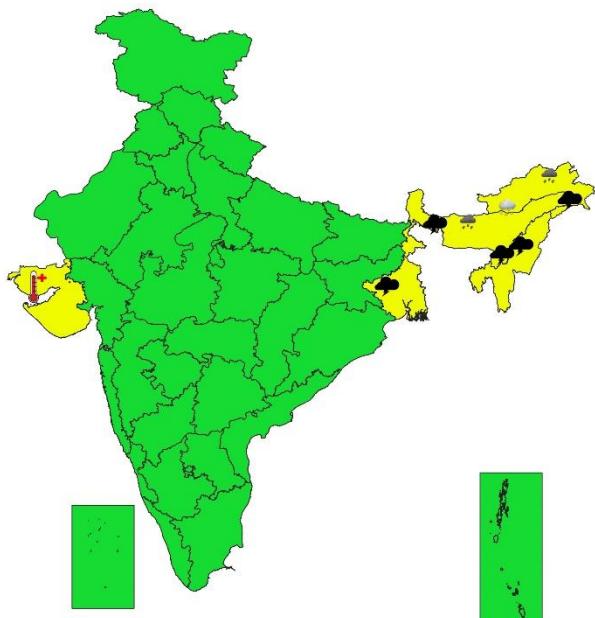
Nagaland, Manipur, Mizoram & Tripura: Tening Nsdma_aws (dist Peren) 2, Paren (dist Peren) 2, Mangkolemba (dist Mokokchung) 2, Tamenglong (dist Tamenglong) 2, Bishnupur (dist Bishnupur) 2, Wokha Sadar Nsdma_aws (dist Wokha) 2, Kohima (dist Kohima) 2, Ukhrul (dist Ukhrul) 2, Lamphet_agri (dist Imphal West) 2, Churachandpur (dist Churachandpur) 2, Kiphire (dist Kiphire) 2;

ANNEXURE II





SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
25-03-2024

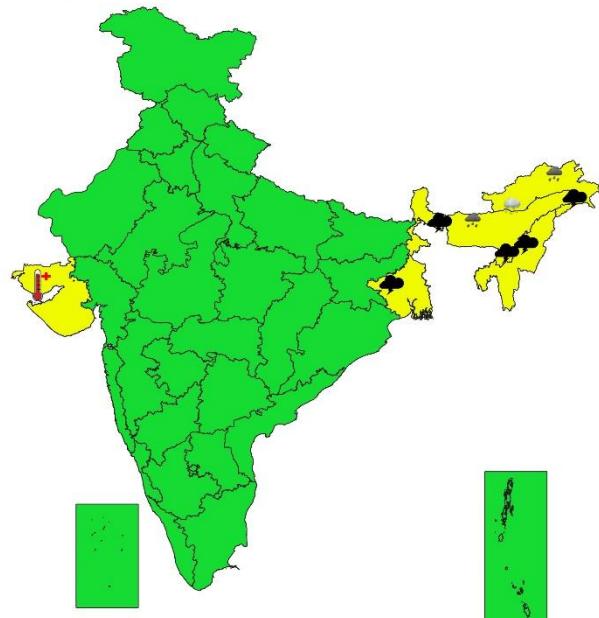


Subdivision Warning

	Fog		Dust Storm		Very Heavy Rain		Subdivision Colour
	Heavy Rain		Heat Wave		Extremely Heavy Rain		WATCH(BE UPDATED)
	Cold Wave		Thunder & Lightning		ALERT (BE PREPARED)		Strong Surface Winds
	Heavy Snow		Cold Day		Ground Frost		WARNING (TAKE ACTION)
	Hailstorm						



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
26-03-2024



Subdivision Warning

	Fog		Dust Storm		Very Heavy Rain		Subdivision Colour
	Heavy Rain		Heat Wave		Extremely Heavy Rain		WATCH(BE UPDATED)
	Cold Wave		Thunder & Lightning		ALERT (BE PREPARED)		Strong Surface Winds
	Heavy Snow		Cold Day		Ground Frost		WARNING (TAKE ACTION)
	Hailstorm						

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 DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)

Subdivision Warning	Dust Storm	Subdivision color
Heavy Rain	Strong Surface Winds	NO WARNING
Heavy Snow	Heat Wave	WATCH(BE UPDATED)
Thunderstorms & Lightning	Cold wave	ALERT (BE PREPARED)
Hailstorm	Fog	WARNING (TAKE ACTION)

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