



**India Meteorological Department
(Ministry of Earth Sciences)**

NATIONAL BULLETIN NO. 5 (LAND/01/2024)

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Sub: (A) Deep Depression over southwest Bihar and adjoining northwest Jharkhand

(B) Low Pressure Area over southwest Rajasthan & neighbourhood

(A) Deep Depression over southwest Bihar and adjoining northwest Jharkhand

The deep depression over southwest Bihar and adjoining northwest Jharkhand moved nearly northwestwards with a speed of 8 kmph during past 6 hours and lay centered at 1130 hours IST of today, the 3rd August over the same region near latitude 24.5°N and longitude 84.3°E, about 50 km south-southeast of Dehri (Bihar), 60 km north-northeast of Daltonganj (Jharkhand), and 120 km east of Churk (Uttar Pradesh).

It is likely to continue to move west-northwestwards across southwest Bihar & adjoining northwest Jharkhand, southeast Uttar Pradesh and east Madhya Pradesh during next 48 hours.

(B) Low Pressure Area over southwest Rajasthan and neighbourhood

A low pressure area over southwest Rajasthan and neighbourhood persisted over the same region at 1130 hours IST of today, the 3rd August, 2024. It is likely to move nearly westwards during next 24 hours.

Warnings:

(i) Rainfall Warning:

Jharkhand:

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places is very likely on 3rd and isolated **extremely heavy rainfall** is also very likely over Northwest Jharkhand on 3rd; heavy rainfall at isolated places on 4th August.

.Bihar:

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places over Bihar on 3rd and 6th, heavy rainfall at isolated places on 4th & 5th August.

Chhattisgarh:

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places also over north Chhattisgarh is very likely on 3rd August.

East Madhya Pradesh:

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is very likely on 3rd & 4th and **extremely heavy rainfall** at isolated places is also very likely on 3rd August.

West Madhya Pradesh:

Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at isolated places is very likely during 3rd to 5th and **extremely heavy rainfall** at isolated places is also very likely on 3rd and 4th August.

East Uttar Pradesh:

Light to moderate rainfall at many places with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places over southeast Uttar Pradesh is very likely on 3rd and 4th August.

West Uttar Pradesh:

Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places is very likely on 3rd and isolated heavy on 4th.

East Rajasthan:

Light to moderate rainfall at most places with heavy rainfall at isolated places is very likely during 3rd to 6th; very heavy rainfall at isolated places on 3rd and **extremely heavy rainfall** is very likely on 4th August

West Rajasthan:

Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is very likely during 3rd, 5th and 6th and heavy rainfall at isolated places on 4th August

Gujarat region :

Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated on 3rd and 4th and extremely heavy rainfall at isolated places on 3rd.

Saurashtra & Kutch.

Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated on 3rd and heavy rainfall on 4th August..

West Bengal:

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is very likely over Sub-Himalayan West Bengal during 3rd to 6th August.

Light to moderate rainfall at most places with isolated **heavy rainfall** is very likely over Gangetic West Bengal on 3rd August.

(ii) Wind warning:

- Strong wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over Jharkhand, south Bihar, north Chhattisgarh and adjoining east Madhya Pradesh & southeast Uttar Pradesh on 3rd August.
- Strong wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over south Uttar Pradesh, East Madhya Pradesh and adjoining west Madhya Pradesh & north Chhattisgarh, on 4th August.
- Strong wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over west Madhya Pradesh and adjoining east Rajasthan & east Madhya Pradesh on 5th August.

(iii) Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutchha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

(iv) Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

(v) Agromet advisories for Heavy Rainfall likely over various parts of the country

- Make provision for draining out excess water from crop fields to avoid water stagnation in West Bengal, Sub Himalayan West Bengal, Odisha, Jharkhand, Bihar, Rajasthan, Madhya Pradesh, Chhattisgarh.
- Provide mechanical support to horticultural crops and staking to vegetables.

Next bulletin will be issued at 2030 hours IST of today, the 3rd August, 2024.

(Ananda Kumar Das)
Scientist F, Cyclone Warning Division, New Delhi

Copy to: ACWC Kolkata/RMC, New Delhi/RMC, Nagpur/MC, Ranch/MC, Raipur/MC, Patna/MC, Bhopal/MC, Jaipur/CWC Bhubaneswar/MC, Lucknow

Realized Rainfall valid at 0830 hours IST of 03rd August, 2024-08-03

Gangetic West Bengal

Dum Dum (North - 24 Panas) - 10, Mo Saltlake(North - 24 Panas) - 8, Diamond Harbour (South - 24 Panas) - 8, Burnpur(Paschim Bardhaman) - 8, Asansol (Paschim Bardhaman) - 8, Rajnagar (Birbhum) - 7

Sub Himalayan West Bengal

Buxaduar(Alipurduar) - 7

Bihar

Puraini(Madhepura) - 11, Sherghati(Gaya) - 9, Dobhi(Gaya) - 8, Imamganj(Gaya) - 8, UdaiKishanganj(Madhepura) - 7, Kumarkhand(Madhepura) - 7, Barachatti(Gaya) - 7, Banka (Banka) - 7, Rajauli(Nawada) - 7, Chausa(Madhepura) - 7, Deo (Aurangabad) - 7

Jharkhand

Mandu(Ramgarh) - 27, Ramgarh (Ramgarh) - 27, BauKanke(Ranchi) - 26, PurviTundi(Dhanbad) - 24, Hendigir(Hazaribag) - 21, Koner(Hazaribag) - 19, Bokaro Thermal (Bokaro) - 17, Ranchi Aero (Ranchi) - 17, Ormanjhi(Ranchi) - 17, Papunki(Dhanbad) - 16, Ramgarh (Ramgarh) - 16, IcarNamkum(Ranchi) - 15, Rajdhanwar(Giridih) - 14, Balumath(Latehar) - 14, Putki(Dhanbad) - 13, Barkisuriya(Giridih) - 13, Bhurkunda(Ramgarh) - 13, Tenughat(Bokaro) - 13, Maithon(Dhanbad) - 13, ManduDvc(Ramgarh) - 13, Gobindpur(Dhanbad) - 12, Tilaiya(Koderma) - 12, Giridih(Giridih) - 12, Bandgaon(West Singbhum) - 12, Sisai(Gumla) - 12, JamtaraFmo(Jamtara) - 12, Kuru (Lohardaga) - 11, Dumri(Giridih) - 11, Panchet(Dhanbad) - 11, Tundi(Dhanbad) - 11, DiyakeIkhunti(Khunti) - 11, Chandwa(Latehar) - 11, Raidih(Gumla) - 11, Dhurki(Garhwa) - 10, Daltonganj(Palamu) - 10, Rajmahal(Sahibganj) - 10, Murhu(Khunti) - 9, Lesliganj(Palamu) - 9, Markachou(Koderma) - 9, Torpa(Khunti) - 9, Maharo(Dumka) - 9, Latehar(Latehar) - 9, PalamuDtg(Palamu) - 9, Bharno(Gumla) - 9, Koderma(Koderma) - 9, LateharBalumat(Latehar) - 9, Patratu(Ramgarh) - 9, Ramgarh(bdo) (Ramgarh) - 8, Rania (Khunti) - 8, Messenjoy(Dumka) - 8, Nawa Bazar (Palamu) - 8, Arki(Khunti) - 8, Nandadih(Giridih) - 8, Mohanpur(Deoghar) - 8, Garu(Latehar) - 8, Barkagaon(Hazaribag) - 7, Gola (Ramgarh) - 7, Simdega(Simdega) - 7, Amrapara(Pakur) - 7

East Rajasthan

Masuda Sr (Ajmer) - 18, Nayanagar/beawar(Ajmer) - 17, Pisagan Sr (Ajmer) - 17, Mangliawas Sr (Ajmer) - 15, Bhim(Rajsamand) - 15, Tatgarh Sr (Ajmer) - 13, Deogarh(Rajsamand) - 10, Mounntabu Tehsil Sr (Sirohi) - 9, Begu Sr (Chittorgarh) - 9, Pushkar Sr (Ajmer) - 8, Raipur (Bhilwara) - 7, Hurda Sr (Bhilwara) - 7, Mounnt Abu (Sirohi) - 7, Sangod(Kota) - 7

Chhattisgarh

Shankarh(Balrampur) - 21, Kusmi(Balrampur) - 18, Rajpur(Balrampur) - 16, Odagi(Surajpur) - 13, Ramanujanj(Balrampur) - 12, Pratappur(Surajpur) - 12, Samari(Balrampur) - 12, Chando(Balrampur) - 12, Raghunath Nagar (Balrampur) - 11, Bhanupratappur(Kanker) - 10, Balrampur(Balrampur) - 10, Wandrafnagar(Balrampur) - 10, DouraKochali(Balrampur) - 10, Bhatgaon(Surajpur) - 9, Kelhari(ManendragarhBharatpur) - 9, Janakpur Bharatpur(ManendragarhBharatpur) - 9, Chalgali(Balrampur) - 9, Durg(Durg) - 8, Biharpur(Surajpur) - 8, Kutaru(Bijapur) - 8, Bhairamgarh(Bijapur) - 8, Sonhat(Koriya) - 8, Durgkondal(Kanker) - 8, Kotadol(ManendragarhBharatpur) - 7, Manora(Jashpur) - 7,

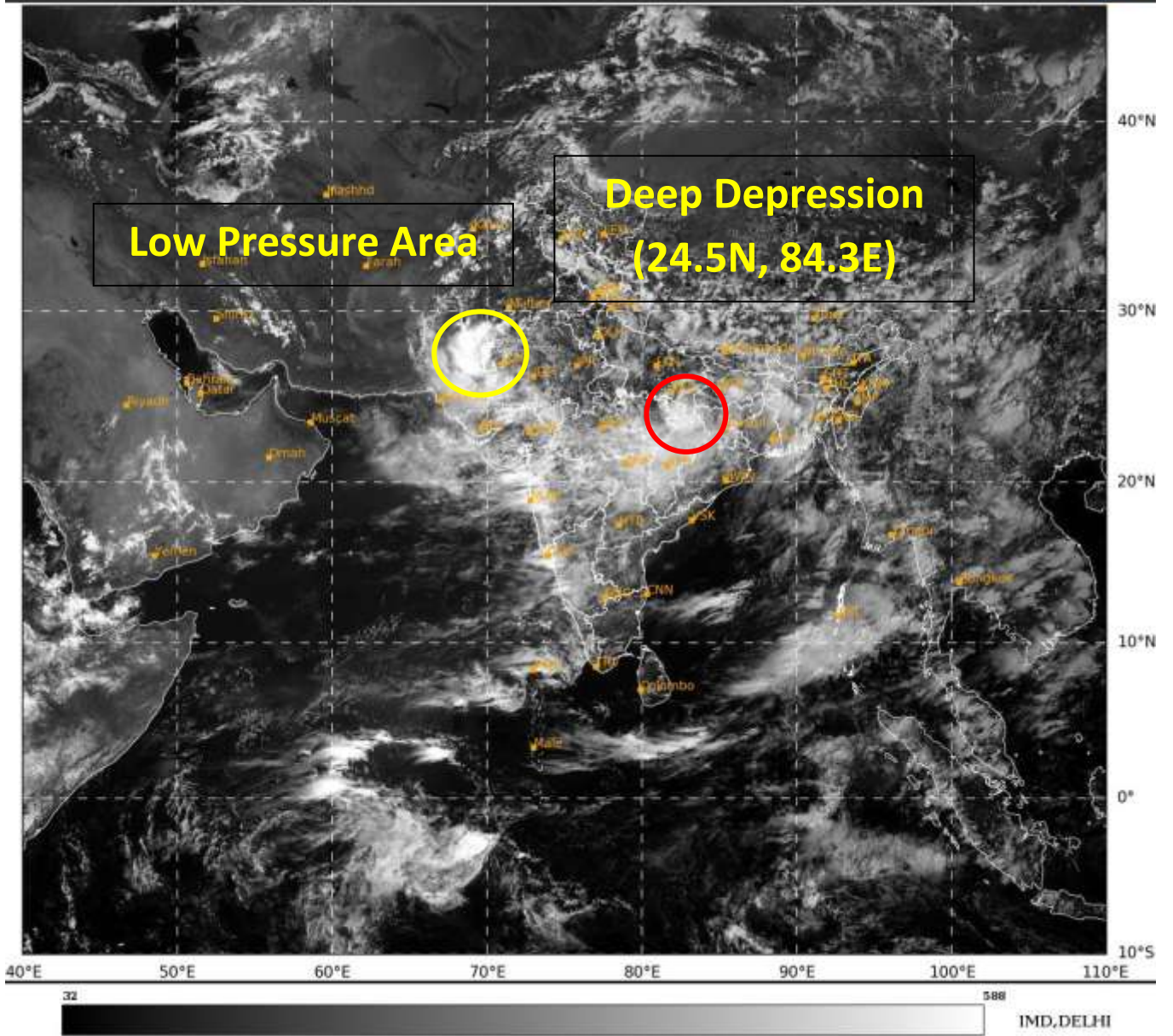
Latori(Surajpur) - 7, Bhaiyathan(Surajpur) - 7, Pakhanjur(Kanker) - 7, Kunkuri(Jashpur) - 7, Lundra(Surguja) – 7

East Madhya Pradesh

Amarpatan(Satna) - 9, Ramnagar(Satna) - 9, Matiyari(Mandla) - 9, Jaisingh Nagar (Shahdol) - 8, Barhi(Katni) - 7, Khurai(Sagar) - 7, Venkatnagar(Anuppur) - 7, Sarai (Singrauli) - 7, Nagode(Satna) - 7, Jaitpur(Shahdol) – 7

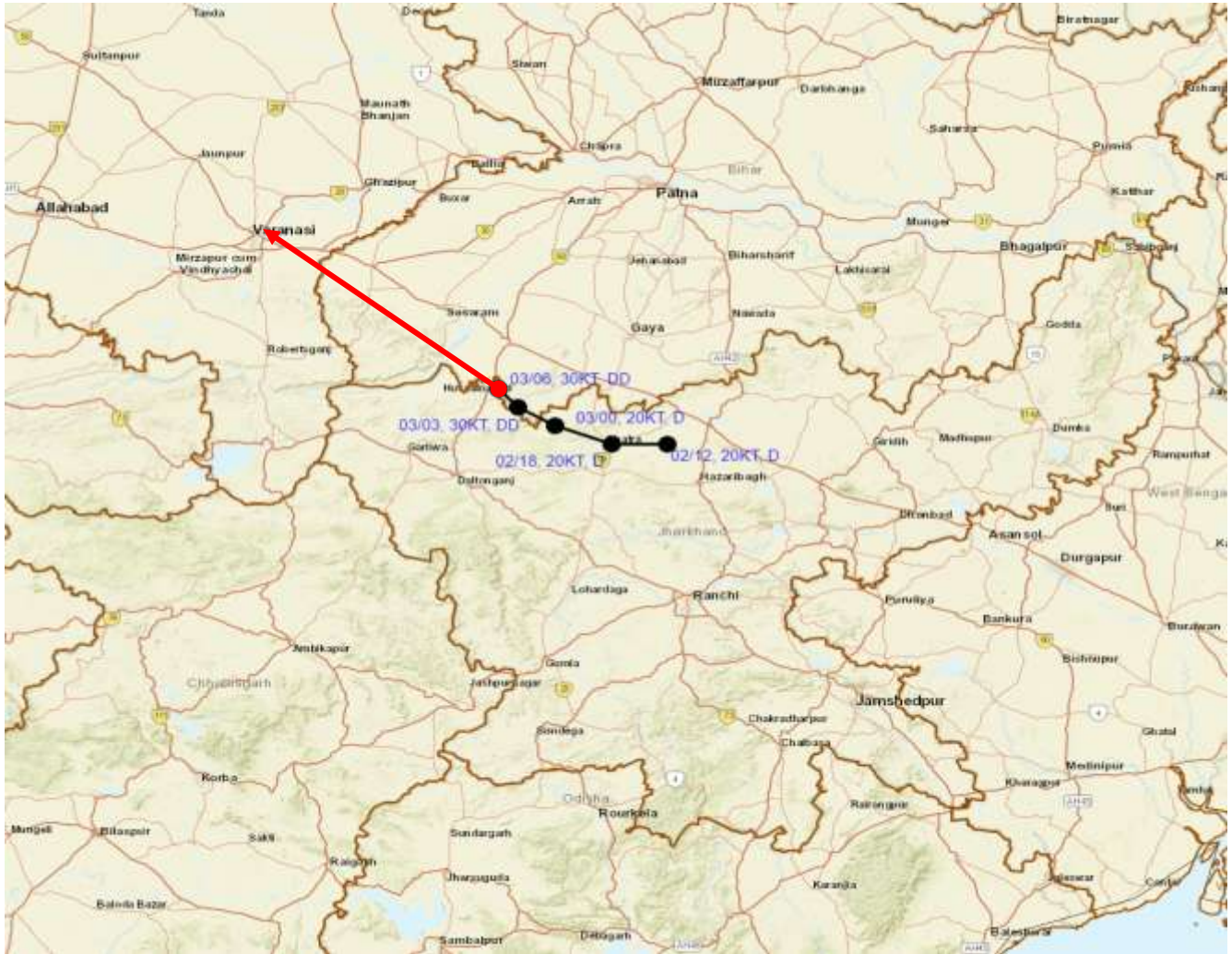
West Madhya Pradesh

Biaora(Rajgarh) - 12, Sultanpur (Raisen) - 11, Harda(Harda) - 11, Raisen- (Raisen) - 9, Gairatgang(Raisen) - 8, Bareli (Raisen) - 8, Sehore- (Sehore) - 7, Udaipura(Raisen) - 7, Badi(Raisen) - 7, Shamshabad(Vidisha) - 7, Berasia(Bhopal) - 7, Ganjbasoda(Vidisha) - 7





OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER SOUTHWEST BIHAR AND ADJOINING NORTHWEST JHARKHAND BASED ON 0600 UTC OF 03RD AUGUST, 2024.



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT)

CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (≥ 120 KT)



LESS THAN 34 KT



34-47 KT



≥ 48 KT



OBSERVED TRACK

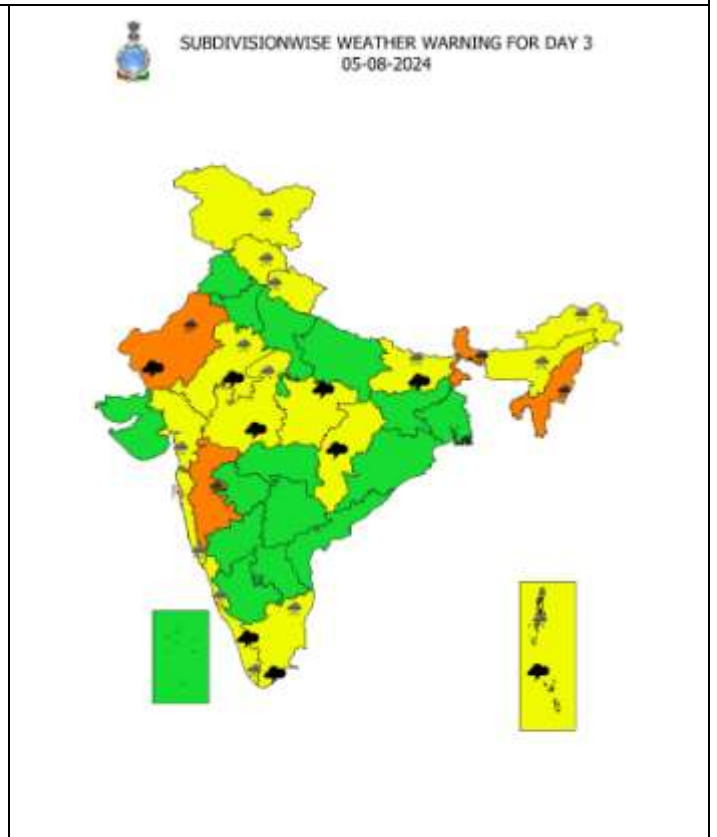
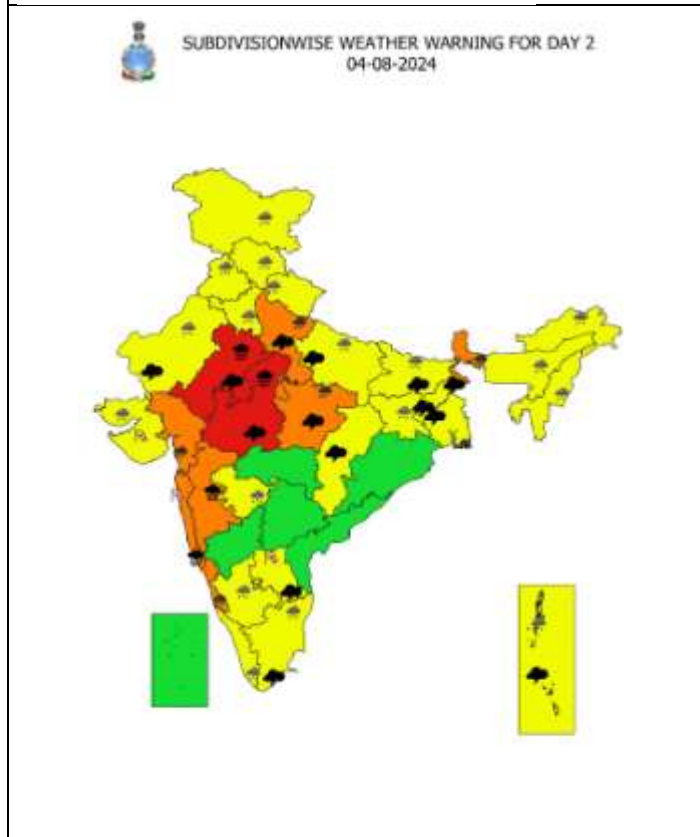
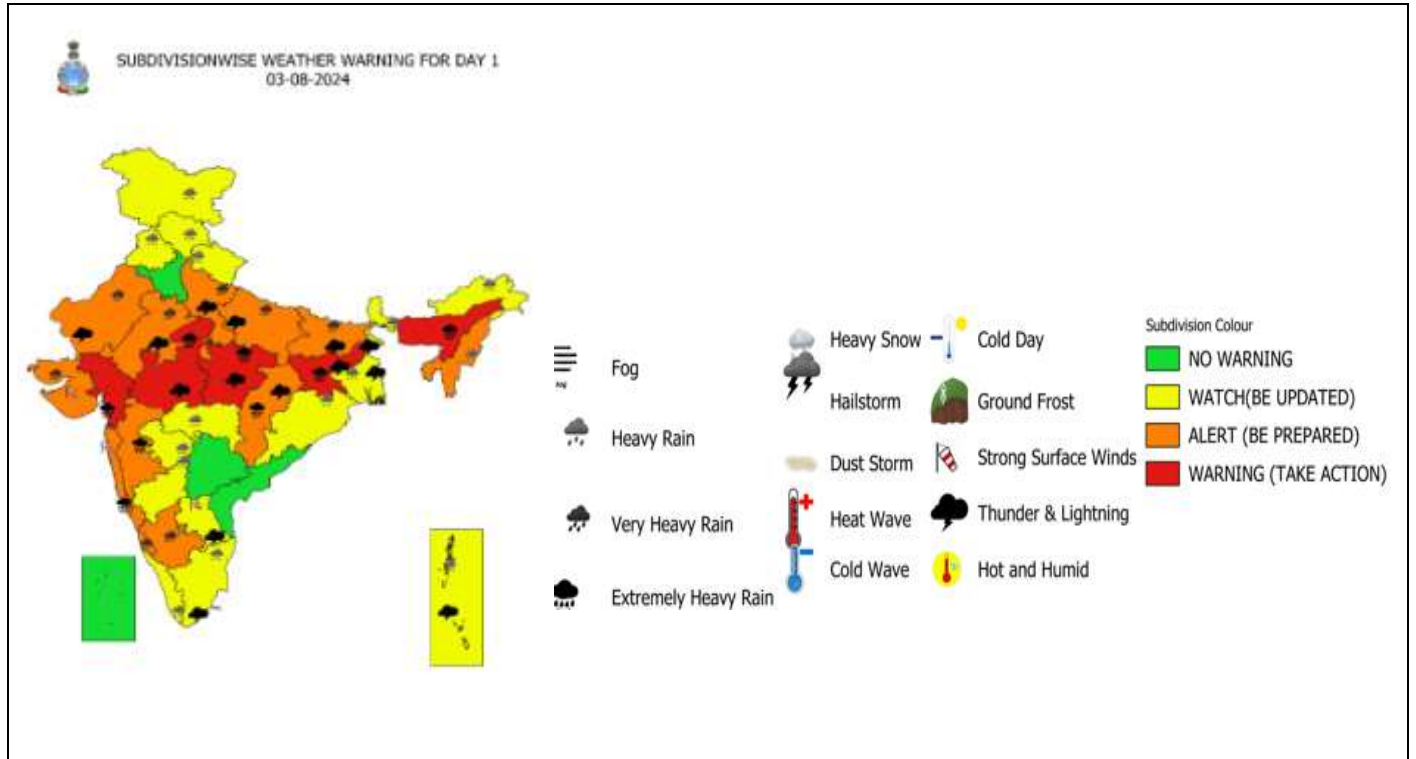


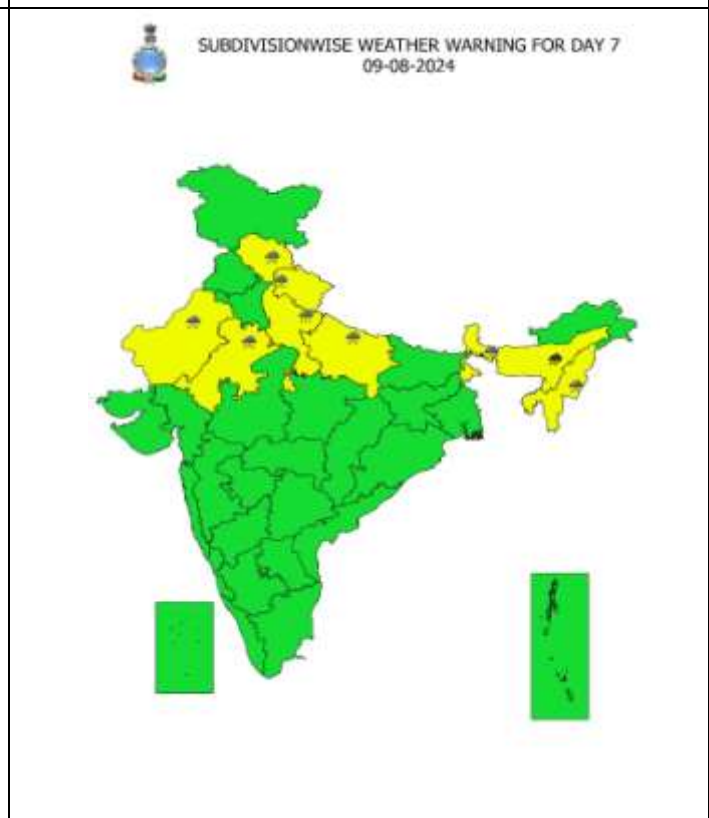
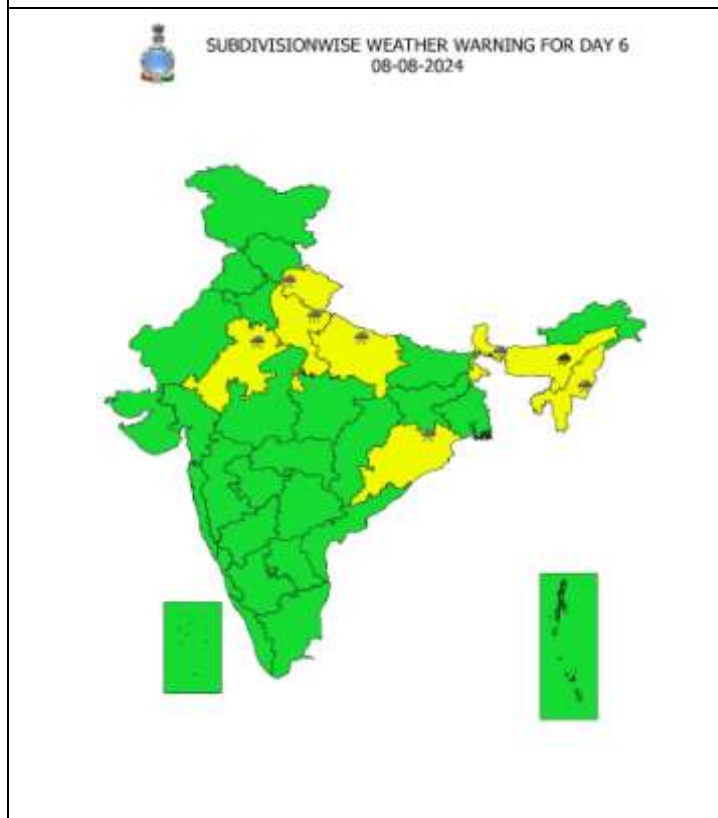
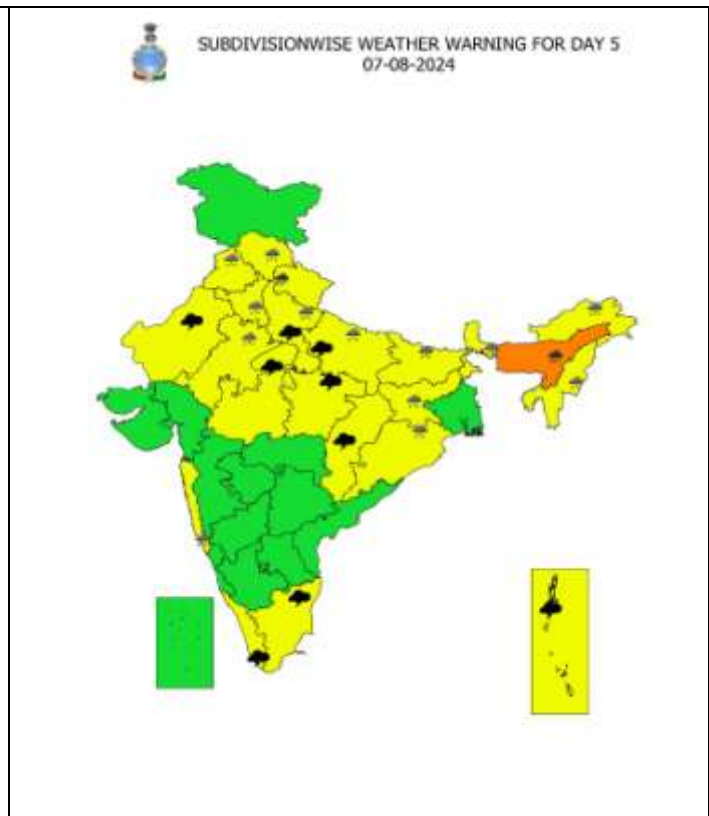
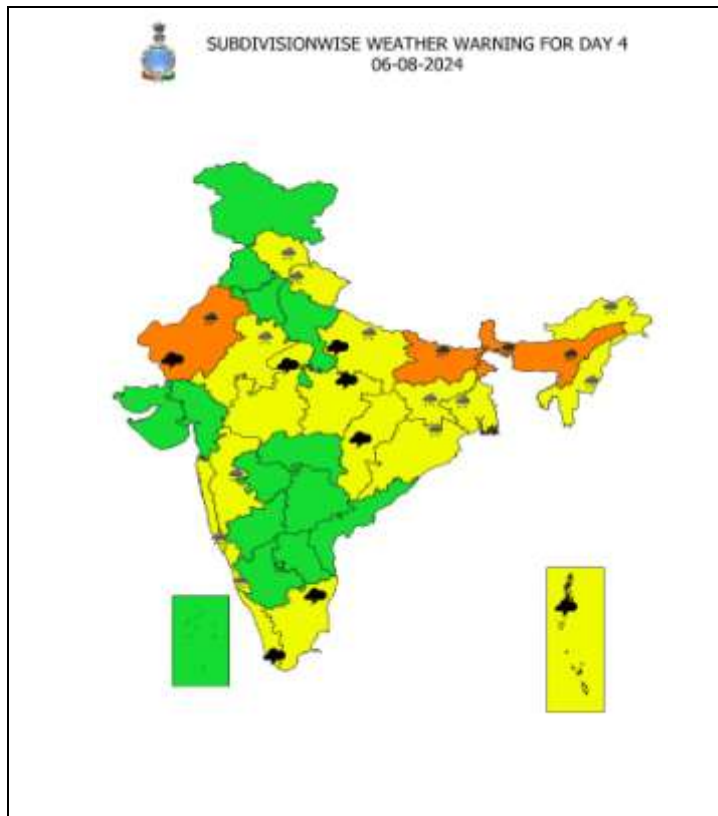
FORECAST TRACK



CONE OF UNCERTAINTY

Warning Graphics





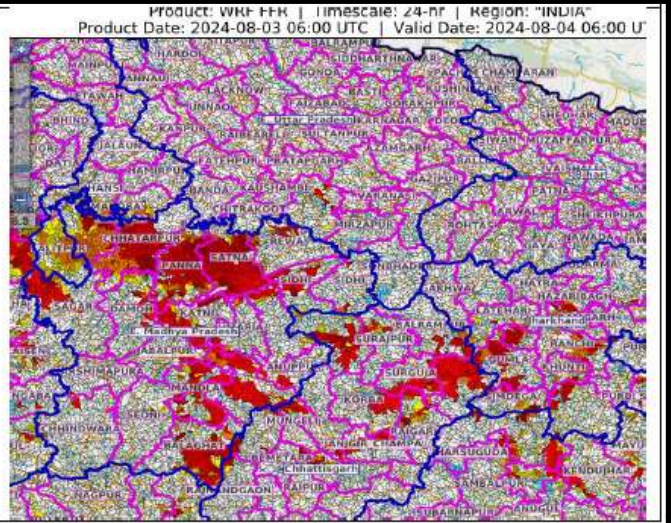
- Action may be taken based on **ORANGE AND RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Flash Flood Guidance

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 04-08-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Chhattisgarh, East Madhya Pradesh and adjoining Jharkhand Met Sub-divisions during next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 04-08-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Coastal Karnataka, Gujarat Region and Konkan & Goa Met Sub-divisions during next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.

