



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

Press Release

Date: 03rd August, 2023

Time of Issue: 1330 hours IST

Subject: i) Depression over north Chhattisgarh & neighbourhood to cause enhanced rainfall over Madhya Pradesh with extremely heavy rainfall likely over Madhya Pradesh and isolated heavy to very heavy rainfall over Vidarbha and Chhattisgarh today and reduction thereafter.
ii) With slight southward shift of Monsoon trough in association with above system isolated heavy rainfall likely over Northwest India during next 3-4 days.
iii) Subdued rainfall activity likely over Peninsular India during next 5 days.
iv) Increase in rainfall activity over Bihar after two days under the influence of remnant of Low Pressure Area/Cyclonic circulation.

Weather observed during past 24 hours ending at 0830 hours IST of today (Annexure I):

Significant Weather features:

- ❖ **Depression over north Chhattisgarh & neighbourhood:** Yesterday's **Deep Depression** over Gangetic West Bengal weakened into a Depression on evening of same day, now it lies as a **Depression** over north Chhattisgarh & neighbourhood at 0830 hours IST of 03rd August, 2023 near latitude 23.5°N and longitude 83.1°E, about 40 km north-northwest of Ambikapur (Chhattisgarh). It is likely to move west-northwestwards towards northeast Madhya Pradesh & adjoining southeast Uttar Pradesh and weaken into a **Well Marked Low Pressure Area** during next 12 hours.
- ❖ The Western end of the Monsoon Trough lies north of its normal position. However, its eastern end lies south of its normal Position. The eastern end of monsoon trough likely to shift gradually northwards during next 3-4 days.

Weather Forecast and Warning associated with Depression (Annexure II):

(i) Rainfall warning:

East Madhya Pradesh: Light to moderate rainfall at most places with **heavy to very heavy rainfall at a few places on 3rd & 4th and isolated extremely heavy rainfall on 3rd August.** Heavy rainfall at isolated places is likely on 5th August.

West Madhya Pradesh: Light to moderate rainfall at most places with heavy to extremely heavy rainfall at isolated places on 3rd August. Heavy rainfall at isolated places is likely on 4th August.

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

South Uttar Pradesh: Light to moderate rainfall at most places with isolated heavy rainfall during 3rd to 6th August.

Vidarbha: Light to moderate rainfall at most places with isolated heavy rainfall on 3rd August.

Weather Forecast and Warning for remaining parts of the country:

Northwest India: Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** is very likely over Uttarakhand, Himachal Pradesh, Uttar Pradesh during 03rd-07th August; Punjab on 04th & 05th; Haryana and East Rajasthan during 03rd-05th August, 2023.

Isolated very heavy rainfall also likely over West Uttar Pradesh on 05th and over Uttarakhand on 06th August.

Northeast India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya during next 5 days and over Tripura on 03rd & 04th August.

West India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely to continue over Konkan & Goa and ghat areas of Madhya Maharashtra during next 2 days and Gujarat Region on 03rd August. Isolated **very heavy rainfall** also likely over Madhya Maharashtra on 03rd August.

South India: Subdued rainfall activity over the region during next 5 days.

Hot and humid weather conditions very likely to prevail over Tamil Nadu on 03rd and 04th August.

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

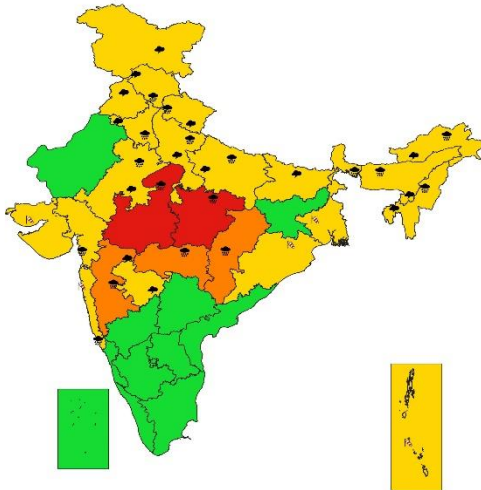
Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 03rd August, 2023):

- **Heavy to very heavy rainfall at a few places with isolated Extremely heavy rainfall** occurred at East Madhya Pradesh and Chhattisgarh; **heavy rainfall at a few places with isolated very heavy rainfall** over Odisha; **heavy to very heavy rainfall at isolated places over** Jharkhand, Madhya Maharashtra and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Haryana, West Madhya Pradesh, Arunachal Pradesh, Assam and Tripura.
- **Significant rainfall recorded (in cm):**
 - ✓ **East Madhya Pradesh:** Bichhia (dist Mandla) 24, Gohparu (dist Shahdol) 23, Raipura (dist Panna) 20, Niwas (dist Mandla) 19, Simariya (dist Panna) 19, Mawai (dist Mandla) 18, Bilhari (dist Katni) 17, Kumdam (dist Jabalpur) 17, Anuppur-aws (dist Anuppur) 16, Jabera (dist Damoh) 16, Umariyapan (dist Katni) 16, Mohgaon (dist Mandla) 15, Amarkantak (dist Anuppur) 15, Pawai (dist Panna) 15, Bakal (dist Katni) 15, Jaisingh Nagar (dist Shahdol) 15, Venkatnagar (dist Anuppur) 15, Rithi (dist Katni) 14, Bahoriband (dist Katni) 14, Panagar (dist Jabalpur) 13, Bijadandi (dist Mandla) 13, Kusmi (dist Sidhi) 13, Hatta (dist Damoh) 13, Sleemanabad (dist Katni) 13, Sihora (dist Jabalpur) 13, Barela (dist Jabalpur) 13, Ranjhi (dist Jabalpur) 13, Devendranagar (dist Panna) 13, Katni(mudwara) (dist Katni) 13,
 - ✓ **Chhattisgarh:** Dharamjaigarh (dist Raigarh) 22, Surajpur (dist Surajpur) 16, Ramanujnagar (dist Surajpur) 15, Patharia (dist Mungeli) 15, Lormi (dist Mungeli) 14, Lailunga (dist Raigarh) 13, Mungeli (dist Mungeli) 12, Bilha (dist Bilaspur) 12, Kartala (dist Korba) 12, Tamnar (dist Raigarh) 11, Khadgava (dist Koriya) 11, Mahasamund (dist Mahasamund) 11, Masturi (dist Bilaspur) 11, Ambikapur (dist Surguja) 11, Katghora (dist Korba) 10, Akaltara (dist Janjgir) 10, Arang (dist Raipur) 10, Duldula (dist Jashpur) 10, Pithora (dist Mahasamund) 10
 - ✓ **Odisha:** Kutra (dist Sundargarh) 19, Panposh (dist Sundargarh) 19, Raurkela (dist Sundargarh) 17, Mandira Dam (dist Sundargarh) 17, Rajgangpur (dist Sundargarh) 16, Bargaon (dist Sundargarh) 15, Binika (dist Sonapur) 14, Nawana (dist Mayurbhanj) 13, Lephripara (dist Sundargarh) 12, Dharakote (dist Ganjam) 12, Karlamunda (dist Kalahandi) 11, Birmaharajpur (dist Sonapur) 11, Narsinghpur (dist Cuttack) 10, Kantamal (dist Boudhgarh) 10, Madanpur Rampur (dist Kalahandi) 10, Kirmira (dist Jharsuguda) 10, Bamra (dist Sambalpur) 10, Balisankara (dist Sundargarh) 10,
 - ✓ **Jharkhand:** Bansjor-16, Kurdeg-15, Bolba, Pakartand-14 each; Thethaitangar, Simdega-13 each; Kersai-12; Bano-11; Dhurki,- 9; Manoharpur, Kalebira-8 each; Rania, Bhawnathpur, Khunti-7 each;
 - ✓ **Madhya Maharashtra:** Mahabaleshwar- Imd Obsy (dist Satara) 12,
 - ✓ **Uttarakhand:** Hardwar: Roorkee-11;
 - ✓ **Arunachal Pradesh:** Namsai Kvk Aws (dist Lohit) 11
 - ✓ **Tripura:** Sabroom (dist South Tripura) 11, Belonia (dist South Tripura) 7,
 - ✓ **West Madhya Pradesh:** Bhind-aws (dist Bhind) 9,
 - ✓ **Haryana:** Gohana (dist Sonapat) 9, Jind (dist Jind) 8, Pilukhera (dist Jind) 7,
 - ✓ **East Uttar Pradesh:** Chitrakoot-8, Sonbhadra-7
 - ✓ **Himachal Pradesh:** Baldwara (dist Mandi) 7,
 - ✓ **Assam:** Tinsukia (dist Tinsukia) 7
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation

24 hours outlook for flash flood risk

Product: GFS FFR | Timescale: 24-hr | Region: "REGIONAL"

Product Date: 2023-08-03 00:00 UTC | Valid Date: 2023-08-04 00:00 UTC

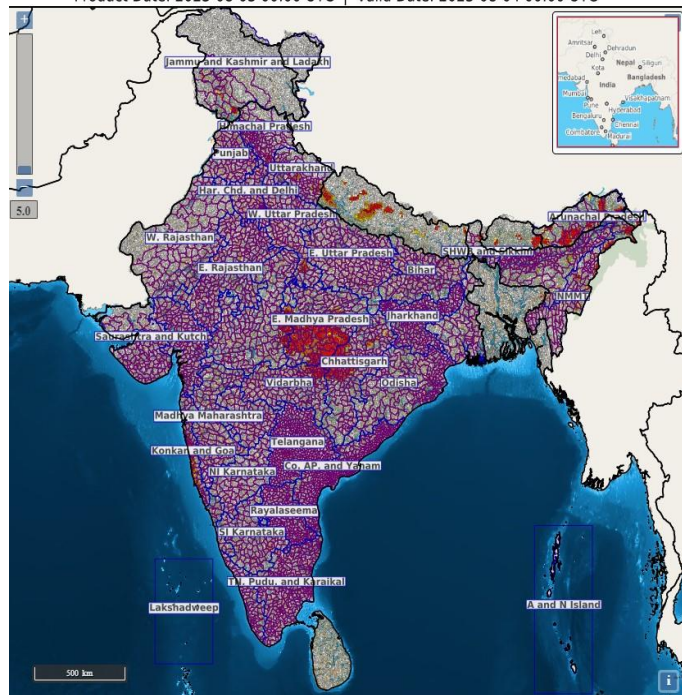
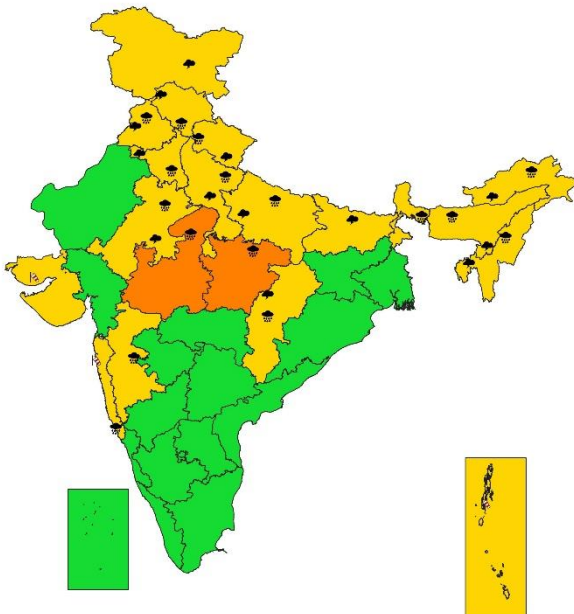
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(3-8-2023)

Subdivision Warning

- Heavy Rain
- Heavy Snow
- Thunderstorms & Lightning
- Hailstorm
- Dust Storm
- Strong Surface Winds
- Heat Wave
- Cold wave
- Fog

Subdivision color

- NO WARNING
- WATCH(BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)

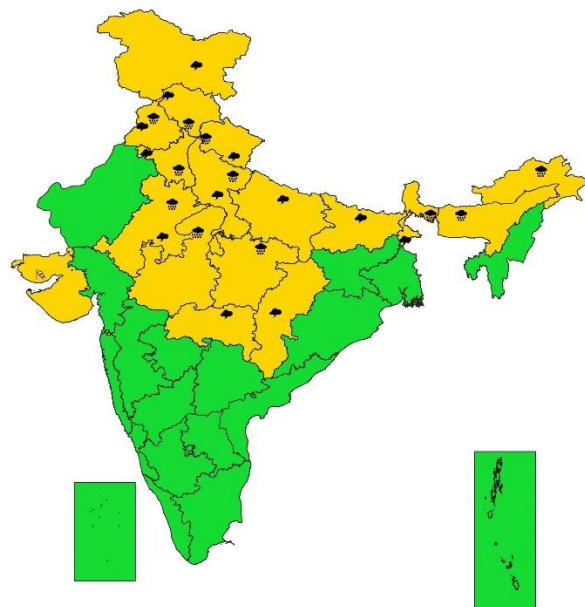
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(4-8-2023)

Subdivision Warning

- Heavy Rain
- Heavy Snow
- Thunderstorms & Lightning
- Hailstorm
- Dust Storm
- Strong Surface Winds
- Heat Wave
- Cold wave
- Fog

Subdivision color

- NO WARNING
- WATCH(BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)

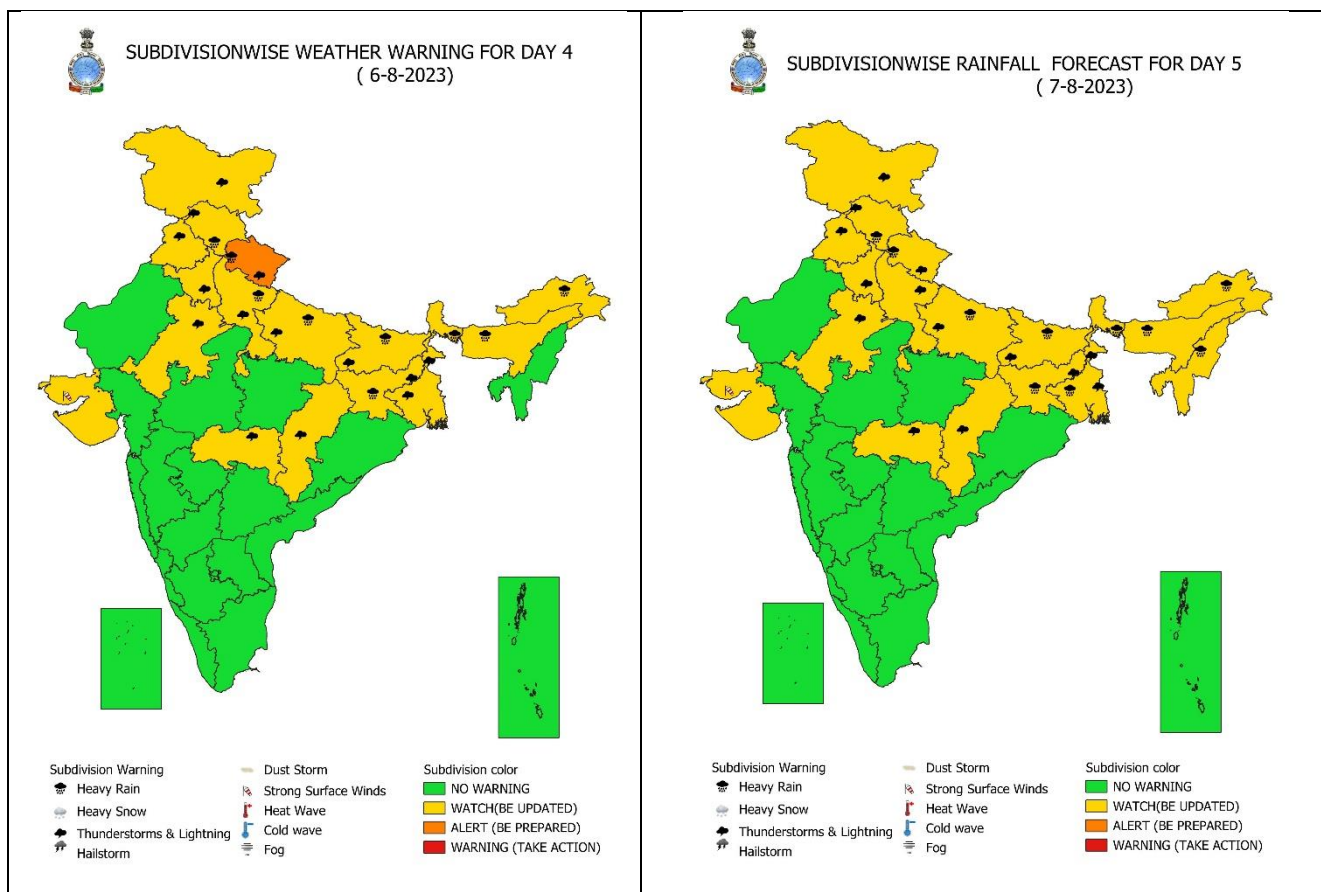
SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(5-8-2023)

Subdivision Warning

- Heavy Rain
- Heavy Snow
- Thunderstorms & Lightning
- Hailstorm
- Dust Storm
- Strong Surface Winds
- Heat Wave
- Cold wave
- Fog

Subdivision color

- NO WARNING
- WATCH(BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)



Impact & Action Suggested due to very heavy/extremely heavy rainfall over:

1. Madhya Pradesh on 03rd & 04th August and Vidarbha, Chhattisgarh on 03rd August
2. Moderate flash flood risk likely over few watersheds & neighbourhoods of South East Madhya Pradesh adjoining Vidarbha and West Chhattisgarh and West Madhya Pradesh Met Sub-divisions during next 24 hours.

A. Impact Expected

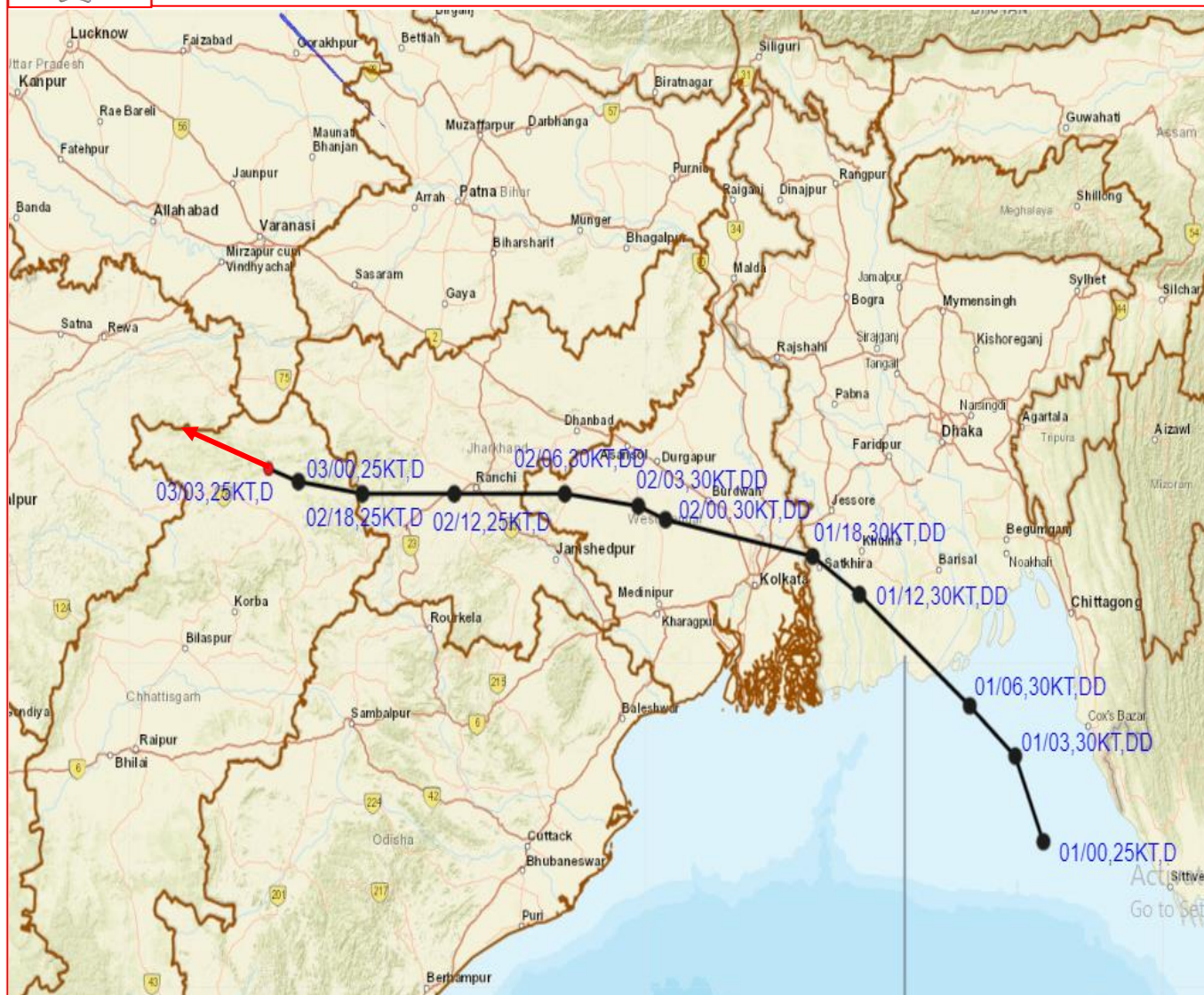
- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ❖ Minor damage to kutchha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides in the hilly areas.
- ❖ 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).

B. 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.



OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTH CHHATTISGARH BASED ON 0300 UTC (0830 IST) OF 03RD AUGUST 2023.



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

Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station
- ❖ **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-Himalaya 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 Widespread (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 |

| Flash Flood Risk | |
|---|-----------------------------|
|  | High Risk (Take Action) |
|  | Moderate Risk (Be Prepared) |
|  | Low Risk (Be Updated) |