

India Meteorological Department

(Ministry of Earth Sciences)

NATIONAL BULLETIN NO.: 15 (BOB/04/2024)

TIME OF ISSUE: 1300 HOURS IST DATED: 11.09.2024

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, ODISHA (FAX NO. 0674-2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029, 08645-246600)

CHIEF SECRETARY, JHARKHAND (FAX NO. 0651-2400255)

CHIEF SECRETARY, CHHATTISGARH (FAX NO. 0771-2221206)

CHIEF SECRETARY, MADHYA PRADESH (FAX NO. 0755-2441076)

CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022-22028594)

CHIEF SECRETARY, UTTAR PRADESH(FAX NO. 52222-39283)

CHIEF SECRETARY, RAJASTHAN(FAX NO. 0141-2227114)

CHIEF SECRETARY, TELANGANA (FAX NO. 040-23453700)

Sub: Depression over Northeast Madhya Pradesh

Yesterday's well marked low pressure area over Northeast Madhya Pradesh and neighbourhood moved nearly north-northwestwards and re-intensified into a depression and lay centred at 0830 hours IST of today, the 11th September over Northeast Madhya Pradesh near latitude 24.0°N and longitude 80.0°E, about 60 km east-northeast of Damoh (Madhya Pradesh), 110 km south of Khajuraho (Madhya Pradesh), 110 km southwest of Satna (Madhya Pradesh) and 210 km southeast of Jhansi (Madhya Pradesh).

It is likely to move slowly north-northwestwards during next 24 hrs. The system is under continuous surveillance of Doppler Weather Radar at Bhopal (Madhya Pradesh).

Warnings:

(i) Rainfall warning

East Madhya Pradesh: Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places on 11th; **heavy to very heavy rainfall** at few places on 12th and heavy rainfall at isolated places on 13th and 14th September.

West Madhya Pradesh: Light to moderate rainfall at many places is very likely with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places on11th & 12th; heavy

to very heavy rainfall at a few places on 13th & 14th September and **heavy rainfall** at a few places on 15th September.

West Uttar Pradesh: Light to moderate rainfall at many places is very likely with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places on11th, 12th and 13th and **heavy rainfall** at a few places on 14th & 15th September.

East Uttar Pradesh: Light to moderate rainfall at many places is very likely with heavy rainfall at isolated places on 11th; **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places on12th and **heavy rainfall** at a few places on 13th, 14th & 15th September.

East Rajasthan: Light to moderate rainfall at many places is very likely with **heavy to very heavy** rainfall at a few places on 11th, 12th & 13th and **heavy rainfall** at isolated places on 14th & 15th September.

West Rajasthan: Light to moderate rainfall at many places is very likely with **heavy rainfall** at a few places on 11th & 12th September.

(ii) Flash Flood Guidance: (Graphics Attached)

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 12-09-2024:

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

West Uttar Pradesh - Lalitpur district.

East Madhya Pradesh - Chhatarpur, Damoh, Narshimapura, Sagar and Tikamgarh districts.

West Madhya Pradesh - Ashoknagar, Raisen, Videsha and Hoshangabad districts.

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

(iii) Wind warning:

Strong wind speed reaching 30-40 kmph gusting to 50 kmph is likely to prevail over North Madhya Pradesh and adjoining South Uttar Pradesh during next 24 hours.

(iv) Impact Expected (East Madhya Pradesh, West Madhya Pradesh, West Uttar Pradesh, East Uttar Pradesh, East Rajasthan and West Rajasthan due to heavy rainfall)

- ✓ 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 and roadways due to water logging in roads leading to increased travel time.
- ✓ Minor damage to kutcha 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 and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

(v) Action Suggested (East Madhya Pradesh, West Madhya Pradesh, West Uttar Pradesh, East Uttar Pradesh, East Rajasthan and West Rajasthan)

- ✓ Judicious regulation of surface transports including railways and roadways.
- ✓ 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.

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

- ✓ Provide mechanical support to horticultural crops & staking to vegetables.
- ✓ Keep the harvested produce at safer place.

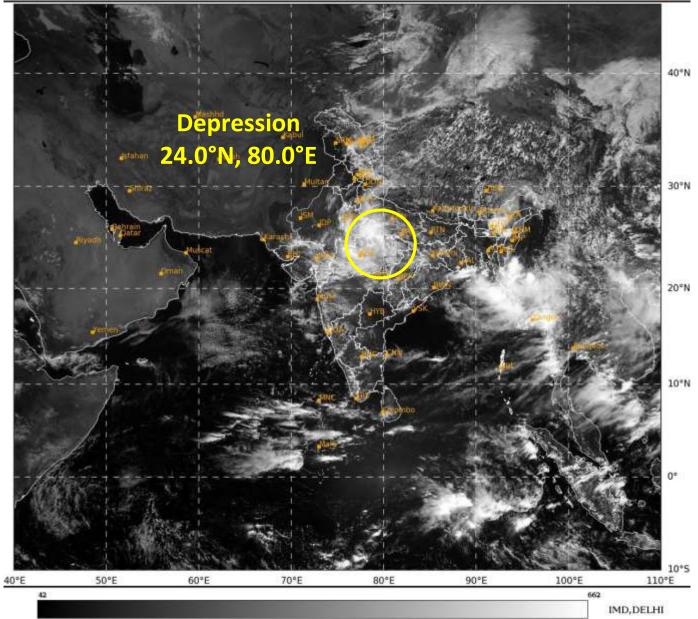
Rainfall recorded during 0830 hrs IST to 1730 hours IST of 11th September (in cm) is placed in Annexure-1

The next bulletin will be issued at 1430 hrs IST of 11th September, 2024.

(M Sharma) Scientist- D, RSMC, New Delhi

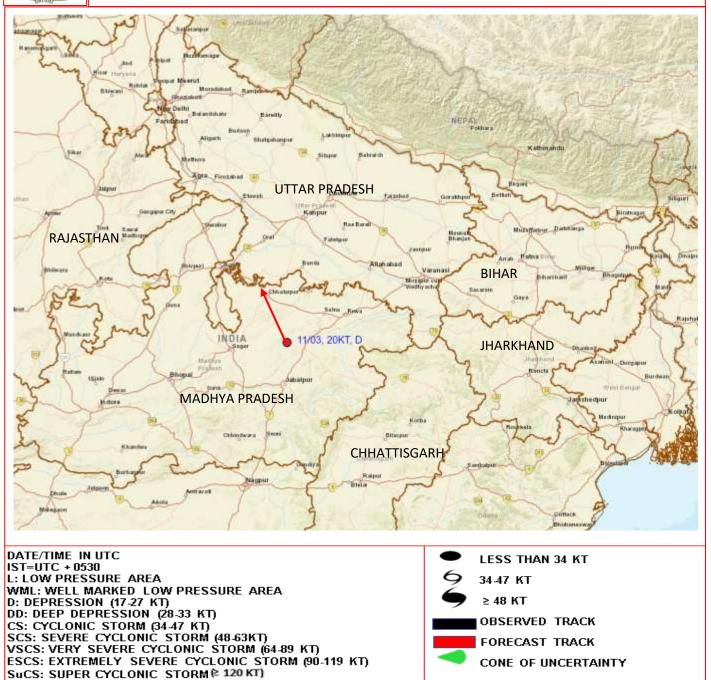
Copy to: CRS, Pune/ACWC Kolkata/ACWC Chennai/CWC Bhubaneswar/CWC Visakhapatnam/ /MC Raipur/MC Ranchi/MC Hyderabad/MC Amaravati/MC Lucknow/MC Bhopal



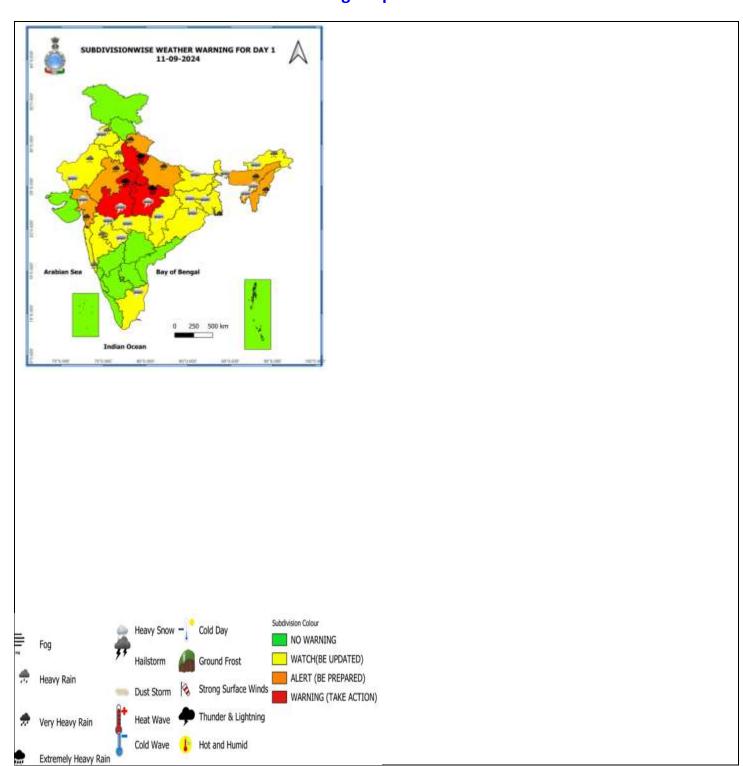


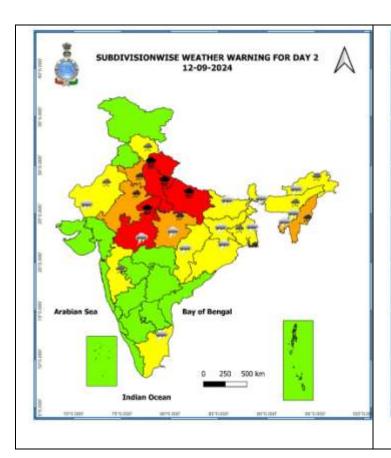


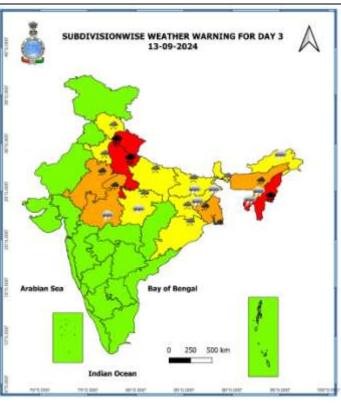
OBSERVED AND FORECAST TRACK OFDEPRESSION OVER NORTHEAST MADHYA PRADESH BASED ON 0300 UTC (0830 IST) OF 11TH SEPTEMBER, 2024.

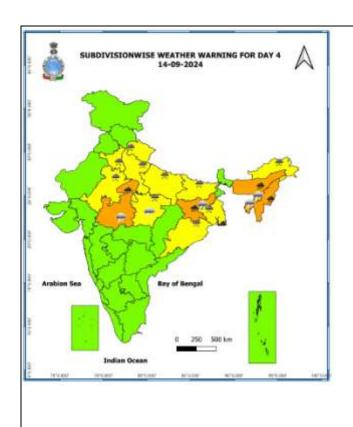


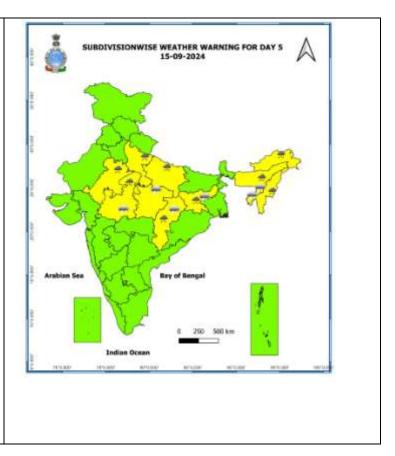
Warning Graphics

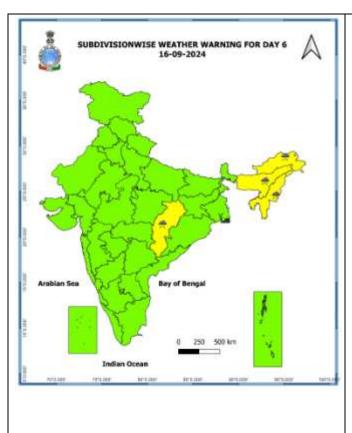


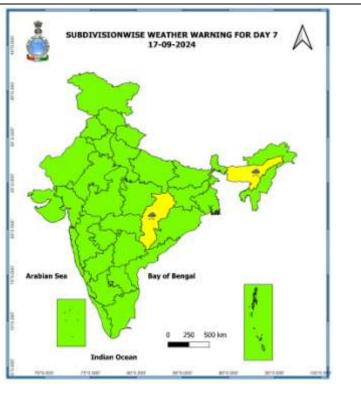






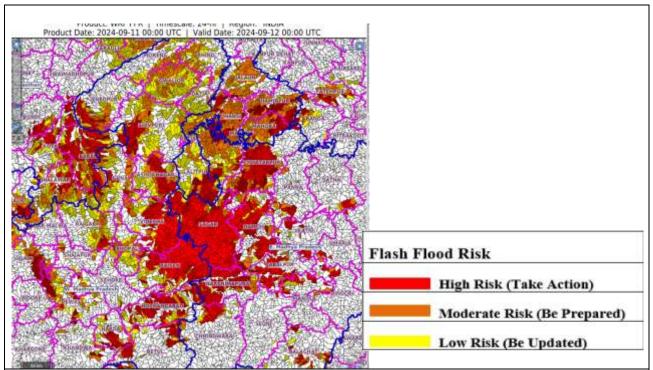






- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Flash Flood Guidance



24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 12-09-2024:

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

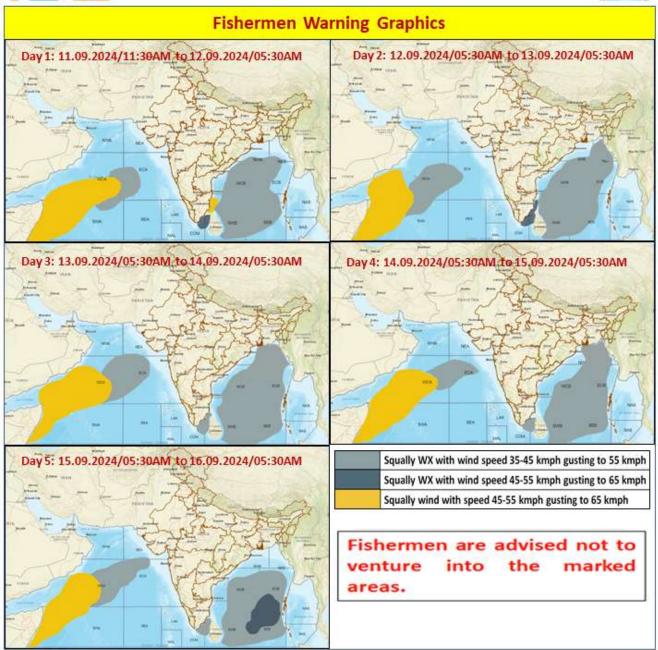
West Uttar Pradesh - Lalitpur district.

East Madhya Pradesh - Chhatarpur, Damoh, Narshimapura, Sagar and Tikamgarh districts.

West Madhya Pradesh - Ashoknagar, Raisen, Videsha and Hoshangabad districts. Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected.

150





Significant rainfall recorded from 0830 hrs IST of yesterday, the 10th September to 0830 hrs IST of today, the11th September, 2024 (cm):

East Madhya Pradesh: Shahgarh (Sagar) 30, Patharia (Damoh) 28, Buxwaha (Chhatarpur) 24, Damoh-aws (Damoh) 21, Hatta (Damoh) 21, Banda (Sagar) 21, Baihar (Balaghat, 19, Jabalpur-aws (Jabalpur) 19, Jabera (Damoh) 19, Rehli (Sagar) 19, Seoni (distSeoni) 19, Tendukheda (Damoh) 18, Panagar (Jabalpur) 18, Narsinghpur-aws (distNarsinghpur) 18, Garhakota (Sagar) 17, Tendukheda (Narsinghpur) 17, Kareli (distNarsinghpur) 17, Matiyari (Mandla) 17, Deori (Sagar) 16, Bichhia (Mandla) 16,Badamalhera (Chhatarpur) 15, Mohgaon (Mandla) 15, Patera (Damoh) 14, Sagaraws(Sagar) 14, Kesli (Sagar) 13, Niwas (Mandla) 13, Kumdam (Jabalpur) 12,Batiyagarh (Damoh) 12, Patan (Jabalpur) 12, Barghat (Seoni) 12,

West Madhya Pradesh: Udaipura (Raisen) 25, Bareli (Raisen) 16, Pipariya (Narmadapuram) 16, Narwar (Shivpuri) 15, Bhander (Datia) 12, Seoni Malwa (Narmadapuram) 11, Sultanpur(Raisen) 11, Pachmarhi (Narmadapuram) 11, Navibagh Aet (Bhopal) 11, Karera (distShivpuri) 10, Deori (Raisen) 10, Bankhedi (Narmadapuram) 10, Gairatgang (Raisen) 9, Raghogarh (Guna) 9, Bhitarwar (Gwalior) 9, Thandla (Jhabua) 9, Sohagpur (distNarmadapuram) 9, Begumganj (Raisen) 9, Narsingarh (Rajgarh) 9, Bhopal Arera Hills (distBhopal) 8, Badi (Raisen) 8, Ganjbasoda (Vidisha) 8, Babai (makhan Nagar) (distNarmadapuram) 8, Kolaras (Shivpuri) 8, Chinor (Gwalior) 8, Alot (Ratlam) 8,

Chhattisgarh: Gandai (KhairagarhChhGandai) 11, Rengakhar Kala (Kabirdham) 9, Tilda (Raipur) 8, Sahaspurlohara (Kabirdham) 7;

East Rajasthan: Khushalgarh (Banswara) 11, Banera(Bhilwara) 9, Ganeshpur(Dungarpur) 8, Shahpura(Jaipur) 7, Mounntabu Tehsil(Sirohi) 7, Chaksu (Jaipur) 7, Baseri (Dholpur) 7, Phagi (Jaipur) 7, Bansur (distAlwar) 7, Jaipur Aero (Jaipur) 7,

West Uttar Pradesh: Mahroni (Lalitpur) 9, Muzaffarnagar (Muzaffarnagar) 9, Jhansi (Jhansi) 9, Mauranipur (Jhansi) 9; Madawara (Lalitpur) 9, Pali (Lalitpur) 7,