



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 16th August, 2022
Time of Issue: 1315 hrs IST

Subject: (i) Active monsoon conditions over West Madhya Pradesh, Rajasthan and Gujarat in association with Depression over East Rajasthan & adjoining West Madhya Pradesh.
(ii) A fresh Low Pressure Area is likely to form over North Bay of Bengal around 19th August, 2022 leading to enhanced rainfall activity over East & Central India from 19th August, 2022.

Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annex. I for amounts)

Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure II)

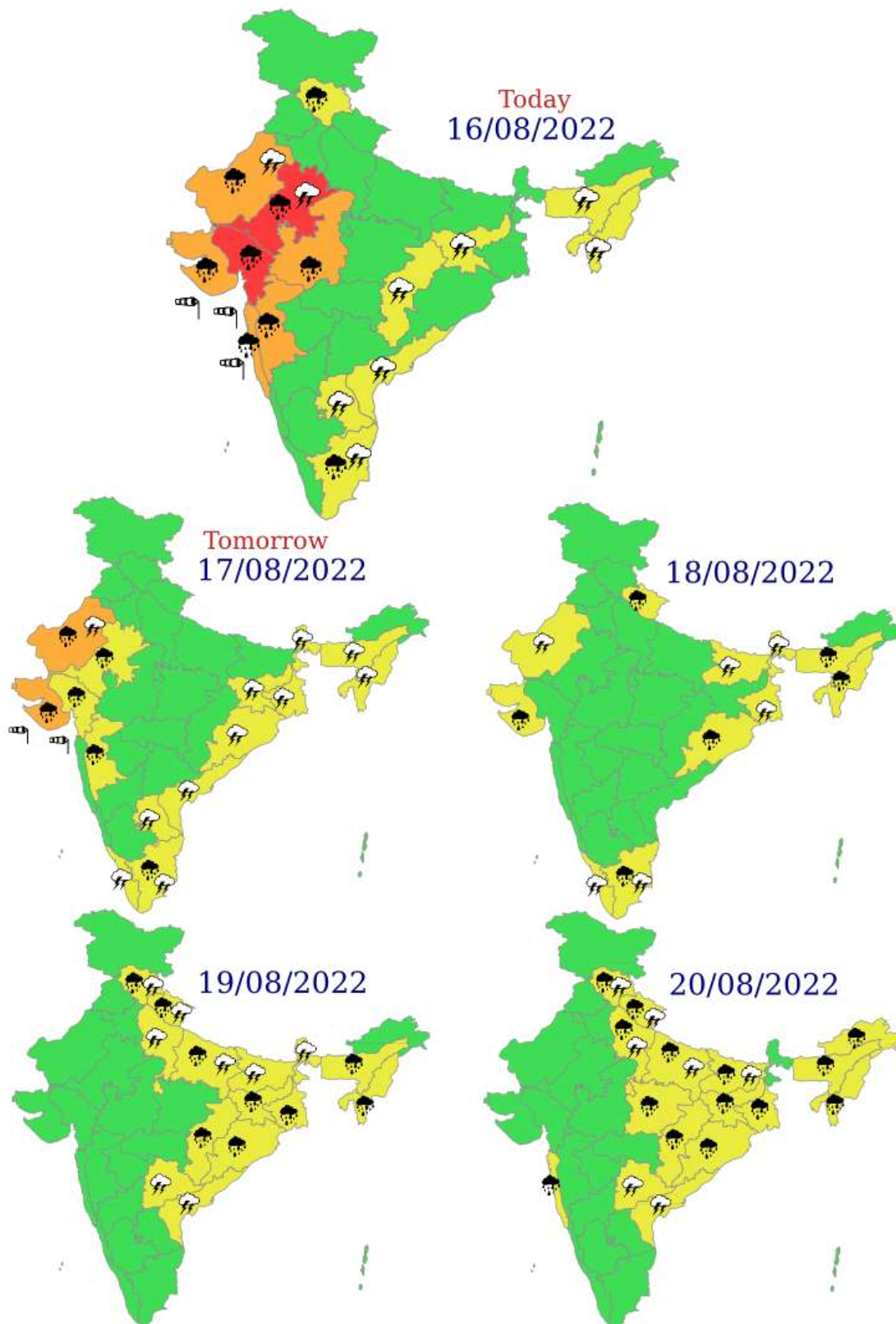
- Yesterdays' **Depression** over north Chhattisgarh & neighbourhood has moved west-northwestwards and now lies over East Rajasthan & adjoining West Madhya Pradesh near latitude 24.7° N & longitude 76.5° E, 80 km southeast of Kota (Rajasthan) at 0830 hours IST of today. It is very likely to continue to move west-northwestwards and weaken gradually to a well marked low pressure area during next 12 hours. (**Annexure III**)
- **A Low Pressure Area is likely to form over North Bay of Bengal around 19th August, 2022.**
- The western end of monsoon trough is south of its normal position, is likely to remain so during next 3 days and shift gradually northwards thereafter. The eastern end of monsoon trough is near normal position.
- The off-shore trough runs along south Gujarat and Maharashtra coasts at mean sea level.
- **Under the influence of the above systems:**
 - Fairly widespread/Widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over south Rajasthan on 16th & 17th; Gujarat Region & ghat areas of Madhya Maharashtra on 16th & 17th; Saurashtra & Kutch during 16th-18th and over Konkan & Goa on 16th & 20th August, 2022.
 - ✓ **Isolated very heavy rainfall likely over Konkan & Goa, ghat areas of Madhya Maharashtra and West Madhya Pradesh on 16th; southwest Rajasthan on 17th and over Saurashtra & Kutch on 16th & 17th August, 2022.**
 - ✓ **Isolated extremely heavy rainfall also likely over south Rajasthan and Gujarat Region on 16th August, 2022.**
 - Under the influence of likely formation of Low Pressure Area over North Bay of Bengal around 19th August; fairly widespread/Widespread light/moderate rainfall is likely over Gangetic West Bengal, Odisha, Jharkhand, Chhattisgarh and East Madhya Pradesh during 18th-20th August, 2022. **Isolated heavy to very heavy rainfall likely over Odisha on 19th & 20th August, 2022.** Isolated **heavy rainfall** also likely over Chhattisgarh & Gangetic West Bengal on 19th & 20th; Bihar & East Madhya Pradesh on 20th August, 2022.
 - Fairly widespread/Widespread light/moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Himachal Pradesh on 16th, 19th & 20th and Uttarakhand during 18th-20th; East Uttar Pradesh on 19th & 20th and over West Uttar Pradesh on 20th August, 2022.
 - Strong surface winds reaching 30-40 kmph gusting to 50kmph likely to prevail over Uttar Pradesh, Haryana, Chandigarh, Delhi, Punjab and Rajasthan today.

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

Extremely heavy rainfall occurred in isolated places over Gujarat Region; **heavy to very heavy rainfall** occurred in isolated places over East Rajasthan and Madhya Pradesh and **heavy rainfall** in isolated places over Jammu, Konkan & Goa, Madhya Maharashtra, Saurashtra & Kutch, Chhattisgarh, Rayalaseema, West Rajasthan, Himachal Pradesh, Vidarbha, Sub-Himalayan West Bengal and West Rajasthan.

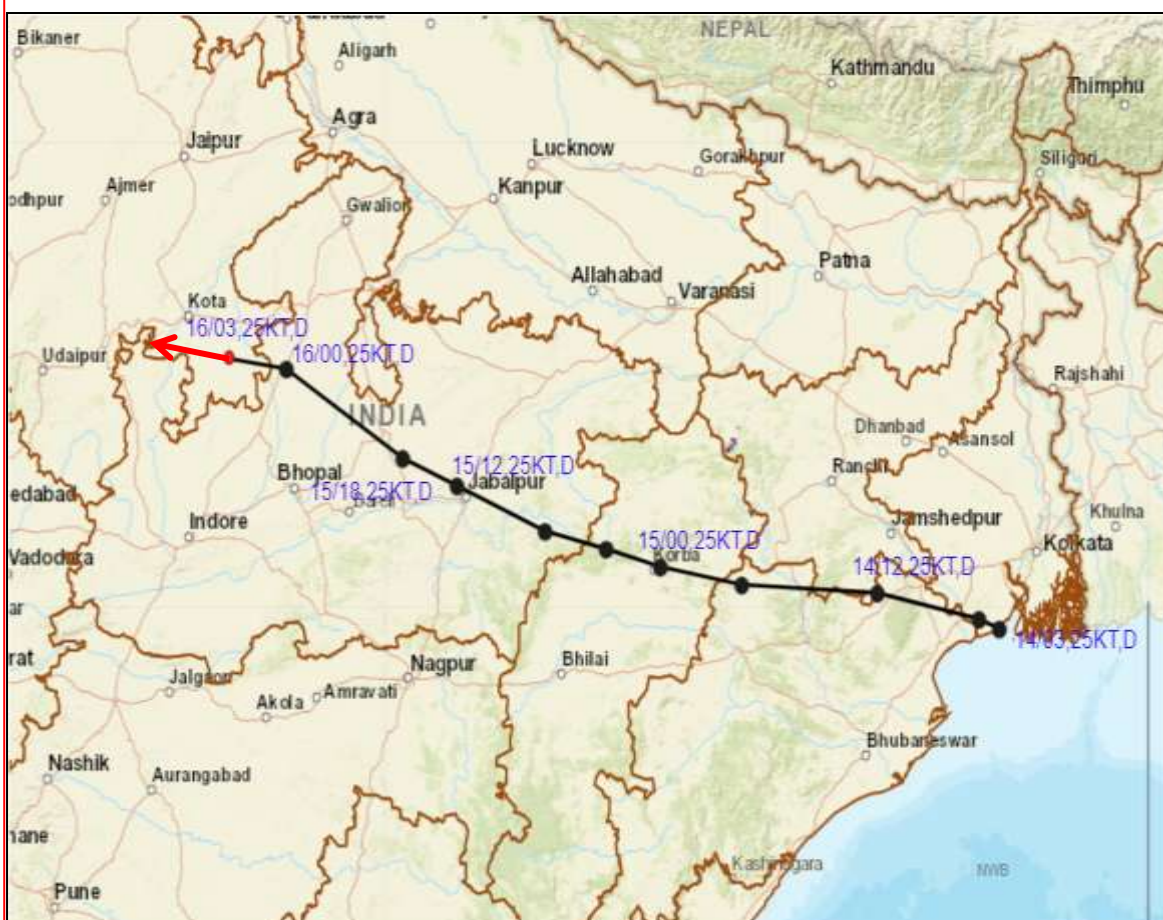
Rainfall (in cm):

- ❖ **Gujarat Region:** Palsana (dist Surat) 22, Vyara (dist Tapi) 20, Ukai (dist Surat) 18, Bardoli (dist Surat) 17, Dolvan (dist Tapi) 17, Songadh (dist Tapi) 15, Mandvi (dist Surat) 13, Mahuva (dist Surat) 13, Valod (dist Tapi) 12, Navasari_aws (dist Navsari) 11, Navsari (dist Navsari) 11, Khanvel (dist Dadara & Nagar Haveli) 11, Madhbun (dist Dadara & Nagar Haveli) 11, Umerpada (dist Surat) 11, Dantiwada (dist Banaskantha) 10, Meghraj (dist Aravalli) 10, Jalalpor (dist Navsari) 9;
- ❖ **West Madhya Pradesh:** Dhundhadaka (dist Mandsaur) 19, Shamshabad (dist Vidisha) 18, Narsingarh (dist Rajgarh) 18, Gairatgang (dist Raisen) 17, Raisen-aws (dist Raisen) 17, Begumganj (dist Raisen) 16, Sehore-aws (dist Sehore) 15, Nateran (dist Vidisha) 14, Pachmarhi (dist Narmadapuram) 14, Barod (dist Agar-malwa) 14, Vidisha (dist Vidisha) 14, Pipariya (dist Narmadapuram) 14, Khilchipur (dist Rajgarh) 13, Jaora (dist Ratlam) 13, Badi (dist Raisen) 13, Bhopal Arera Hills (dist Bhopal) 13, Navibagh Aet (dist Bhopal) 13, Suvasara (dist Mandsaur) 13, Chachoda (dist Guna) 13, Bareli (dist Raisen) 13, Ashoknagar-aws (dist Ashoknagar) 13, Kolar (dist Bhopal) 13, Dolariya (dist Narmadapuram) 12, Bairagarh Airport (dist Bhopal) 12, Budhni (dist Sehore) 12, Susner (dist Agar-malwa) 12, Goharganj (dist Raisen) 12, Pachore (dist Rajgarh) 12, Piploda (dist Ratlam) 12, Shyampur (dist Sehore) 12, Udaipura (dist Raisen) 11, Kalapipal (dist Shajapur) 11, Bhipur (dist Betul) 11, Jawad (dist Neemuch) 11, Mandsaur-aws (dist Mandsaur) 11, Ichhawar (dist Sehore) 11, Berasia (dist Bhopal) 11, Sohagpur (dist Narmadapuram) 10, Biaora (dist Rajgarh) 10, Deori (dist Raisen) 10, Aron (dist Guna) 10;
- ❖ **East Rajasthan:** Banswara: Bhungra-18, Jhalawar: Dug-17, Asnawar-10, Pirawa-9, Sirohi: Mount Abu-12, Pratapgarh: Pipalkunth-10, Karauli: Mandrayal-7,
- ❖ **East Madhya Pradesh:** Jaisinagar (dist Sagar) 17, Rahatgarh (dist Sagar) 15, Ghansore (dist Seoni) 13, Deori (dist Sagar) 10, Kareli (dist Narsinghpur) 10, Rehli (dist Sagar) 9, Tendukheda (dist Damoh) 9, Tendukheda (dist Narsinghpur) 9, Gadarwara (dist Narsinghpur) 9, Amarkantak (dist Anuppur) 8, Niwas (dist Mandla) 8, Sagar-aws (dist Sagar) 8, Dhanora (dist Seoni) 8, Sausar (dist Chindwara) 8, Katangi (dist Balaghat) 8, Shahgarh (dist Sagar) 8, Garhakota (dist Sagar) 8, Nainpur (dist Mandla) 8, Gotegaon (dist Narsinghpur) 8, Bijadandi (dist Mandla) 7;
- ❖ **Konkan & Goa:** Talasari (dist Palghar) 10, Matheran (dist Raigad) 9, Dahanu - Imd Obsy (dist Palghar) 7;
- ❖ **Himachal Pradesh:** Chamba: Kheri-10, Dalhousie-7, Solan: Nalagarh-8;
- ❖ **Madhya Maharashtra:** Igatpuri (dist Nashik) 9, Surgana (dist Nashik) 8, Peth (dist Nashik) 8, Mahabaleshwar Imd Obsy (dist Satara) 7, Lonavala_agri (dist Pune) 7;
- ❖ **Jammu:** RS Pura-8;
- ❖ **Saurashtra & Kutch:** Kodinar (dist Gir Somnath) 8, Kandla New (dist Kutch) 7;
- ❖ **Rayalaseema:** Pakala (dist Chittoor) 8, Tirupati Aero (dist Chittoor) 7, Srikalahasti (dist Chittoor) 7;
- ❖ **West Rajasthan:** Jalore: Sayla-8;
- ❖ **Chhattisgarh:** Katghora (dist Korba) 7, Korba (dist Korba) 6;
- ❖ **Vidarbha:** Korchi (dist Gadchiroli) 7;
- ❖ **Sub-Himalayan West Bengal:** Jalpaiguri: Hasimara-7.





OBSERVED AND FORECAST TRACK OF DEPRESSION OVER EAST RAJASTHAN ADJOINING WEST MADHYA PRADESH BASED ON 0300 UTC OF 16th AUGUST, 2022



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

EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

i) Isolated very heavy rainfall over Konkan & Goa, ghat areas of Madhya Maharashtra and West Madhya Pradesh on 16th; southwest Rajasthan on 17th and over Saurashtra & Kutch on 16th & 17th August, 2022.

ii) Isolated extremely heavy rainfall over south Rajasthan and Gujarat Region on 16th August, 2022.

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 kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- 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.

Legends:

Heavy Rain: 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

Region wise classification of meteorological Sub-Divisions:

1) **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.

2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.

3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.

4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.

6) **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)



Heavy Rain



Strong Winds

WARNING

WARNING (TAKE ACTION)

ALERT (BE PREPARED)

WATCH (BE UPDATED)

NO WARNING (NO ACTION)

Probabilistic Forecast

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



Thunderstorm with Lightning



Heat Wave