



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

Press Release

Date: 29th July, 2023

Time of Issue: 1400 hours IST

- Subject: i) Heavy to very heavy rainfall activity likely to continue over east, northeast and east central India during next 4-5 days.**
- ii) Heavy to very heavy rainfall activity likely to continue over northwest India today and decrease during 31st July to 1st August and increase on 2nd and 3rd August.**
- iii) Enhancement of rainfall activity along west coast on 2nd and 3rd August and decrease in rainfall activity over remaining parts of peninsular India.**

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

Significant Weather features:

- ❖ A **Low Pressure** Area has formed over north Odisha and adjoining West Bengal Coasts. Associated cyclonic circulation extends upto mid tropospheric levels tilting south-westwards with height.
- ❖ The Monsoon Trough at mean sea level now passes through Sri Ganganagar, Rohtak, Lucknow, Gaya, Ranchi, center of Low Pressure Area over north Odisha and adjoining West Bengal Coasts and thence southeastwards to east central Bay of Bengal. The western end of the monsoon trough lies along its normal position while the eastern end lies south of its normal position and extends southeastwards up to east central Bay of Bengal.
- ❖ A cyclonic circulation lies over Punjab & adjoining north Pakistan in low to mid tropospheric levels.
- ❖ The Western Disturbance as mid-tropospheric westerlies is now seen with its axis at 5.8 km above mean sea level roughly along Long. 69°E to the north of 30°N.

Weather Forecast and Warning (Annexure II):

Northwest India: Light/Moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** is very likely over Himachal Pradesh, Punjab, West Uttar Pradesh, Haryana, East Rajasthan on 29th July & 2nd August; West Uttar Pradesh on 29th July, 1st & 2nd August over Uttarakhand during 29th July-02nd August; over East Uttar Pradesh during 29th July-31st August, 2023.

Isolated very heavy rainfall also likely over East Uttar Pradesh on 29th July.

Central India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** is very likely over East Madhya Pradesh and Chhattisgarh during 29th-31st July; West Madhya Pradesh on 1st & 2nd August; and Vidarbha on 2nd August.

Isolated very heavy rainfall also likely over Chhattisgarh on 29th July, 1st & 2nd August; over East Madhya Pradesh on 1st & 2nd; Vidarbha on 1st August.

West India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely to continue over Konkan & Goa and Madhya Maharashtra during 29th July & 1st August; over Gujarat Region on 29th July, 2023.

Isolated very heavy rainfall very likely over Konkan & Goa and Madhya Maharashtra on 2nd August, 2023.

South India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely

over Coastal Karnataka during 29thJuly-02nd August, over Telangana on 1st & 2nd and South Interior Karnataka on 2nd August.

East India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over West Bengal & Sikkim on 29th & 30th July; over Jharkhand during 29th July-01st August and over Bihar during 31st July-2nd August 2023.

Isolated very heavy rainfall very likely over Odisha during 29thJuly-02nd August and Bihar on 29th & 30th July, 2023.

Northeast India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over the region during next 5 days.

Isolated very heavy rainfall likely over Arunachal Pradesh on 29th July; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 1st & 2nd August 2023.

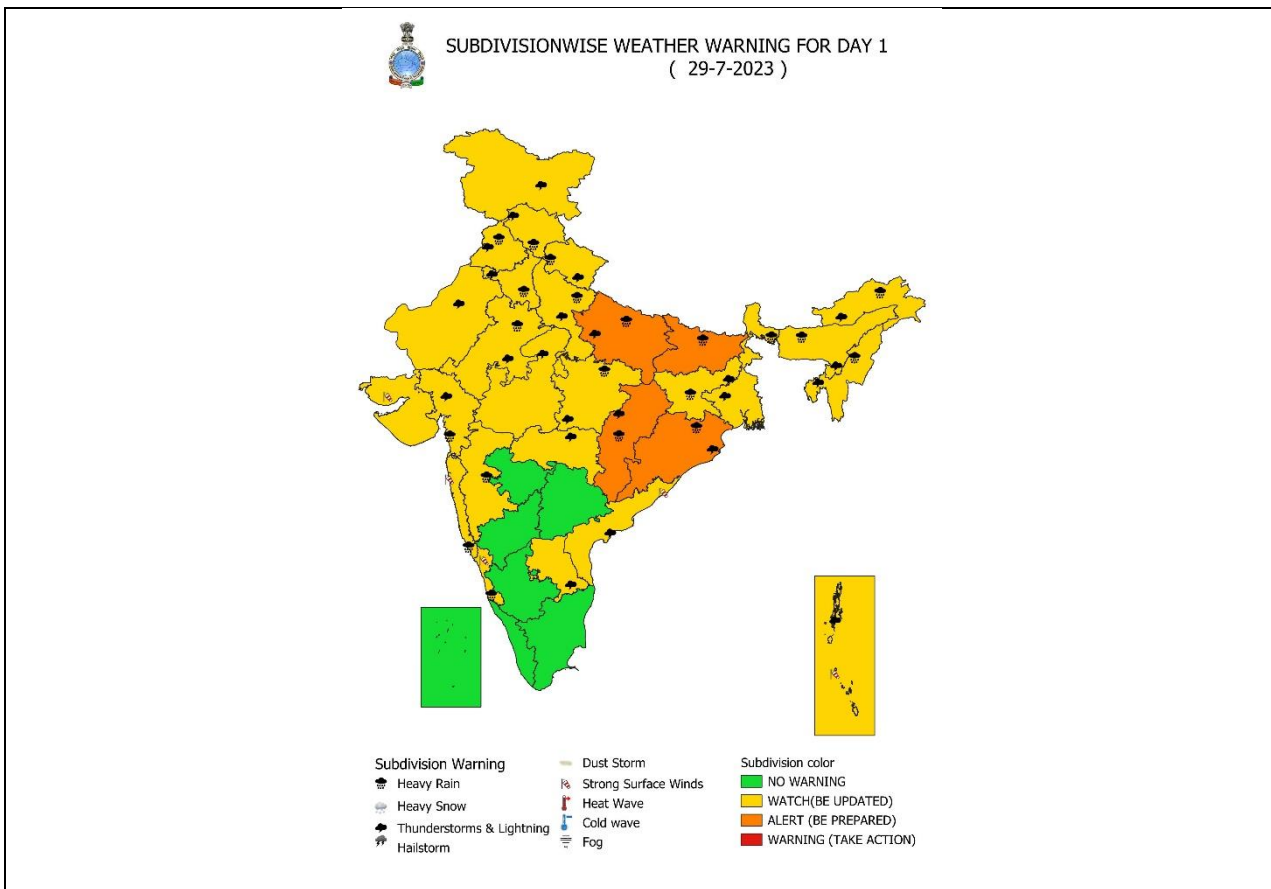
For more details kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 29th July 2023):

- **Heavy to very heavy rainfall with isolated extremely heavy rainfall** observed over Konkan & Goa, Arunachal Pradesh; **Heavy to very heavy rainfall** at isolated places over East Rajasthan and Chhattisgarh, Madhya Pradesh, Uttar Pradesh, Konkan & Goa, Odisha and Madhya Maharashtra; **Heavy rainfall** at isolated places over Himachal Pradesh, West Rajasthan,

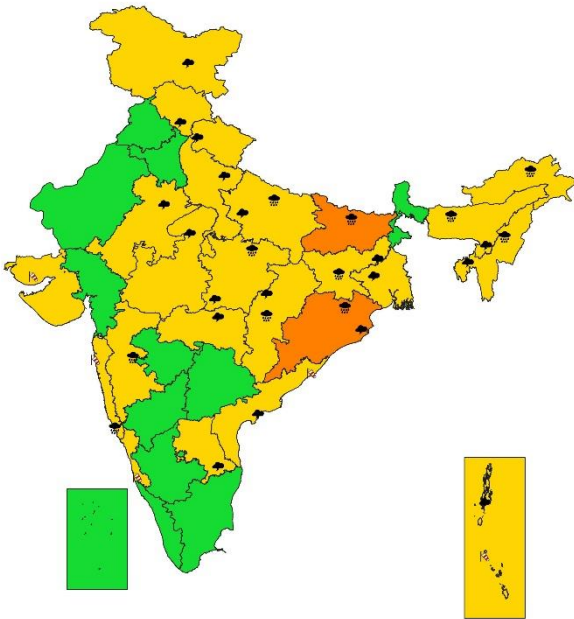
Significant rainfall recorded (in cm):

- **Konkan & Goa:** Ambernath (dist Thane) 17, Wada (dist Palghar) 11, Jawhar (dist Palghar) 11, Mhasla (dist Raigad) 10, Poladpur (dist Raigad) 9, Shahapur (dist Thane) 9, Matheran (dist Raigad) 9, Mangaon (dist Raigad) 8, Vikramgad (dist Palghar) 8, Panvel_agri (dist Raigad) 8, Tala (dist Raigad) 8, Roha (dist Raigad) 8, Mokheda - Fmo (dist Palghar) 8, Sudhagad Pali (dist Raigad) 8, Ulhasnagar (dist Thane) 7, Bhiwandi (dist Thane) 7, Murbad (dist Thane) 7, Mahad (dist Raigad) 7, Vasai (dist Palghar) 7, Tbia Imd Part Time (dist Thane) 7, Shriwardhan (dist Raigad) 7, Mandangad (dist Ratnagiri) 7;
- **Gujarat Region:** Jetpur Pavi (dist Chhota Udepur) 21, Jambughoda (dist Panchmahal) 15, Chhota Udepur (dist Chhota Udepur) 10, Sankheda (dist Chhota Udepur) 10, Tilakwada (dist Narmada) 10, Sinor (dist Vadodara) 8, Bodeli (dist Chhota Udepur) 8, Nanipalson (dist Valsad) 7;
- **East Uttar Pradesh:** Birdghat (dist Gorakhpur) 17, Lambhuua (dist Sultanpur) 12, Gorakhpur (dist Gorakhpur) 8;
- **West Uttar Pradesh:** Muzaffarnagar(t) (dist Muzaffarnagar) 10, Muzaffarnagar (dist Muzaffarnagar) 8, Budhana (dist Muzaffarnagar) 7;
- **Madhya Maharashtra:** Mahabaleshwar- Imd Obsy (dist Satara) 13, Lonavala_agri (dist Pune) 10, Igatpuri (dist Nashik) 9;
- **Odisha:** Harabhanga (dist Boudhgarh) 16, Phulbani (dist Kandhamal) 10, Chandua Kuliana (dist Mayurbhanj) 10, Jamsolaghat (dist Mayurbhanj) 8, Binika (dist Sonepur) 7, Pattamundai (dist Kendrapara) 7, Phiringia (dist Kandhamal) 7, Sarasakana (dist Mayurbhanj) 7;
- **Himachal Pradesh:** Rampur Bushar (dist Shimla) 7;
- **Assam & Meghalaya:** Ranganadi Nt Xing (dist Lakhimpur) 12, Dhemaaji (dist Dhemaaji) 9, Mawsynram (dist East Khasi Hills) 8, Lakhimpur Arg (dist Lakhimpur) 8, Jiagaon (dist Tinsukia) 7, N.lakhimpur/lilabari (dist Lakhimpur) 7, Cherrapunji (dist East Khasi Hills) 7, Cherrapunji(rkm) (dist East Khasi Hills)- 7;
- **East Madhya Pradesh:** Bajag (dist Dindori) 18, Mangawan (dist Rewa) 10, Nagode (dist Satna) 10, Channodi (dist Shahdol) 10, Kusmi (dist Sidhi) 10, Rampur Baghelan (dist Satna) 8, Jaitpur (dist Shahdol) 8, Gudh (dist Rewa) 8, Gohparu (dist Shahdol) 7, Venkatnagar (dist Anuppur) 7, Raipurkarchuliyan (dist Rewa) 7;
- **West Madhya Pradesh:** Kathiwada (dist Alirajpur) 19, Alirajpur (dist Alirajpur) 11, Multai (dist Betul) 8, Sardarpur (dist Dhar) 7, Ujjain-aws (dist Ujjain) 7, Jabot (dist Alirajpur) 7, Jawad (dist Neemuch) 7;
- **East Rajasthan:** Jaipur Tehsil Sr (dist Jaipur) 16, Lalsot (dist Dausa) 12, Bhim (dist Rajsamand) 9, Atru Sr (dist Baran) 8, Neemkathana Sr (dist Sikar) 7, Ajmer Tehsil Sr (dist Ajmer) 7, Gangapur (dist Sawai Madhopur) 7, Beir Sr (dist Bharatpur) 7, Chomu (dist Jaipur) 7, Srinagar Sr (dist Ajmer) 7;
- **West Rajasthan:** Nokha (dist Bikaner) 8;
- **Chhattisgarh:** Pendra Road (dist Bilaspur) 15, Pendra (dist Bilaspur) 9, Labhandih (dist Raipur) 7;
- **Haryana:** Nagina Rev (dist Nuh) 9, Badli Rev (dist Jhajjar) 9, Punhana (dist Nuh) 8, Gurgaon Rev (dist Gurgaon) 7, Sohana (dist Gurgaon) 7, Thanesar (dist Kurukshetra) 7;
- **Arunachal Pradesh:** Pasighat_ Aero (dist East Siang) 21, Yupia (Phed dist. Papumpare) 11, Yupa (ARG dist. Papumpare) 10, Itanagar (dist Papumpara) 8, Roing (dist Lower Dibang Valley) 8, Seppa (dist East Kameng)-7;





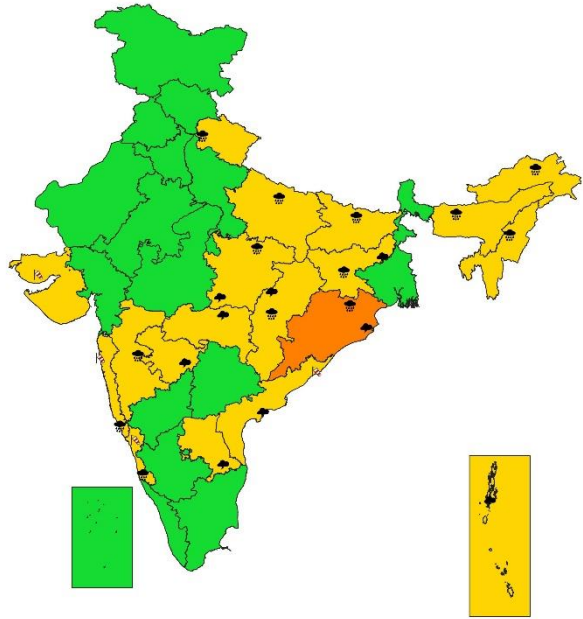
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(30-7-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| 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) |



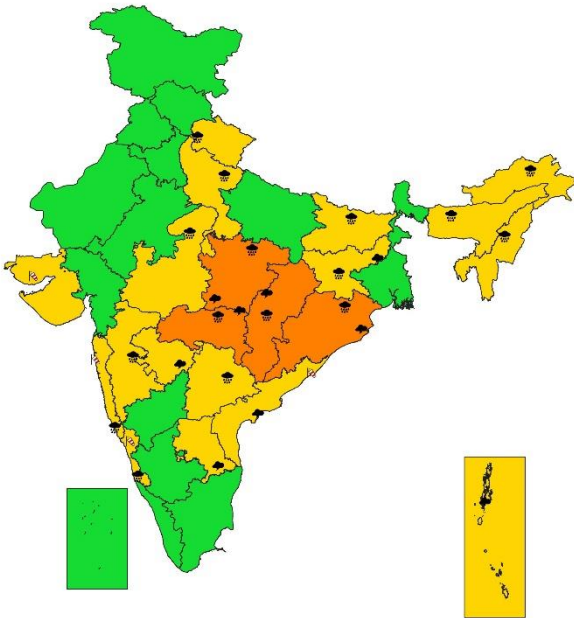
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(31-7-2023)**



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|----------------------------|----------------------|--------------------------|
| 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) |



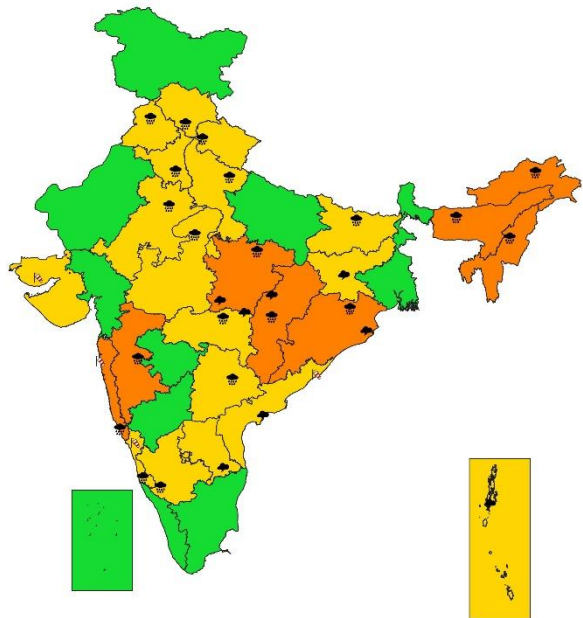
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(1-8-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| 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) |



**SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 5
(2-8-2023)**



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|----------------------------|----------------------|--------------------------|
| 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) |

Agromet advisories for heavy rainfall likely over various parts of the country

- Drain out excess water from crop fields to avoid water stagnation in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Sub Himalayan West Bengal & Sikkim, Odisha, Madhya Pradesh, Chhattisgarh, Maharashtra, Goa, Gujarat State, Karnataka, Andhra Pradesh, Rayalaseema, Telangana and North Eastern States.
- Postpone transplanting of rice and finger millet in Konkan; rice in ghat regions of Madhya Maharashtra and Telangana.
- Postpone sowing of cotton, groundnut, castor and red gram in Telangana.

Impact & Action Suggested due to very heavy rainfall:

29th July: East Uttar Pradesh, Chhattisgarh, Bihar, Odisha;

30th July: Odisha and Bihar;

31st July: Odisha;

01st August: East Madhya Pradesh, Vidarbha, Odisha, Chhattisgarh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura;

02nd August: East Madhya Pradesh, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Madhya Maharashtra.

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 kutch 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.

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