



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

**Press Release
Date: 15th July, 2023**

Time of Issue: 1300 hours IST

**Subject: i) Heavy to very Heavy rainfall over Uttarakhand, Himachal Pradesh & Uttar Pradesh likely to continue during next 4 days and decrease thereafter.
ii) Active monsoon condition very likely to prevail over central & adjoining East India during next 5 days.
iii) Gradual decrease rainfall activity over northeast India and increase in rainfall activity along the west coast.**

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

Significant Weather features:

- ❖ The western end of the monsoon trough has shifted southwards and lies near its normal position and eastern end continues to run near its normal position. The Monsoon Trough passes through Ganganagar, Hisar, Aligarh, Orai, Sidhi, Daltonganj, Digha and thence southeastwards to eastcentral Bay of Bengal.
- ❖ A cyclonic circulation lies over Northwest Bay of Bengal & adjoining north Odisha-Gangetic West Bengal coasts and extends upto mid tropospheric levels. It is likely to move west-northwestwards across north Odisha & adjoining Gangetic West Bengal and Jharkhand during next 2-3 days.
- ❖ Another circulation is likely to form over Northwest Bay of Bengal around 18th July, 2023.
- ❖ A Western Disturbance as a cyclonic circulation in middle & upper tropospheric level lies over north Pakistan & adjoining Punjab.
- ❖ A cyclonic circulation lies over south Gujarat in middle tropospheric levels.

Weather Forecast and Warning (Annexure II):

Northwest India: Fairly widespread to widespread rainfall with **isolated heavy to very heavy rainfall and thunderstorm & lightning** is very likely to continue over Uttarakhand and Himachal Pradesh and **isolated heavy rainfall** very likely over Uttar Pradesh, East Rajasthan during next 4 days.

Isolated extremely heavy rainfall likely over Uttarakhand on 17th July.

East & adjoining Northeast India: Fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over Northeast India, Sub-Himalaya West Bengal & Sikkim on 15th & 16th; Odisha during 15th-18th; Jharkhand on 15th & 16th; Gangetic West Bengal on 15th July.

Isolated heavy to very heavy rainfall likely over Odisha on 15th & 16th July.

Central India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall and thunderstorm & lightning** is very likely over the region during next 5 days.

Isolated heavy to very heavy rainfall likely over East Madhya Pradesh during 15th-17th; West Madhya Pradesh on 15th & 16th; Chhattisgarh on 17th July.

West India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy to very heavy rainfall** very likely to continue over Konkan & Goa, ghat areas of Madhya Maharashtra during next 5 days and Gujarat state on 19th July.

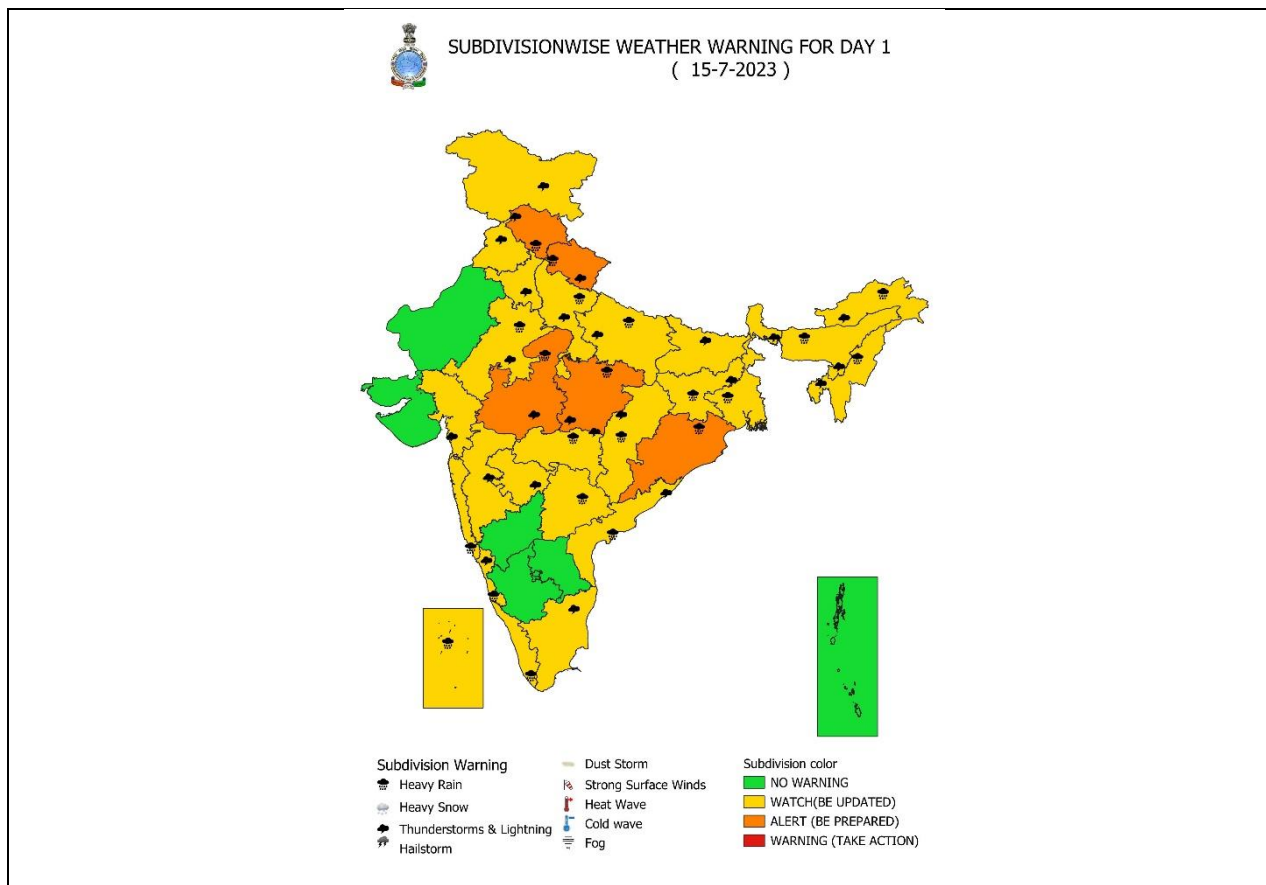
South India: Light/moderate scattered to fairly widespread rainfall with **isolated heavy rainfall** very likely to over Coastal Karnataka during 15th to 19th; over Coastal Andhra Pradesh, Telangana & Kerala & Mahe on 15th, 18th & 19th July; Interior Karnataka on 18th & 19th July.

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

Annexure I

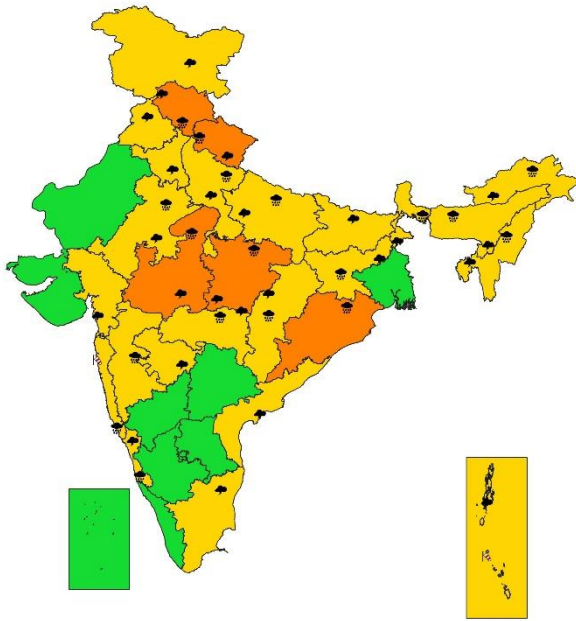
Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 15th July 2023):

- **Heavy Rainfall observed: Heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Telangana and **heavy rainfall** at isolated places over Arunachal Pradesh, Meghalaya, Nagaland, West Bengal, Bihar, East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Gujarat Region and Coastal Karnataka.
- **Significant rainfall recorded (in cm):**
 - **East Madhya Pradesh:** Barghat (dist Seoni) 15, Sagar-aws (dist Sagar) 14, Devser (dist Singrauli) 9, Banda (dist Sagar) 9, Seoni (dist Seoni) 8, Junnardeo (dist Chindwara) 8, Jaisinagar (dist Sagar) 7,
 - **Uttarakhand:** Bageshwar: Sama-12, Loharkhet-8, Dehradun: Rishikesh-10, Pithoragarh: Dharchulha-10, Champawat: Banbasa-7,
 - **Himachal Pradesh:** Saloni (dist Chamba) 12,
 - **West Madhya Pradesh:** Rehti (dist Sehore) 10, Gairatgang (dist Raisen) 9, Salwani (dist Raisen) 7, Depalpur (dist Indore) 7,
 - **West Uttar Pradesh:** Sahaswan (dist Badaun) 12, Rath (dist Hamirpur) 7, Kalpi Tehsil (dist Jalaun) 7, Kalpi Cwc (dist Jalaun) 7,
 - **East Uttar Pradesh:** Nanpara (dist Bahraich) 11, Mukhlispur (dist Gorakhpur) 9, Mahsi (dist Bahraich) 9, Jaunpur Cwc (dist Jaunpur) 9, Bahraich (dist Bahraich) 9, Nawabganj Tehsil (dist Barabanki) 8, Kakerdarighat (dist Shrawasti) 7,
 - **Saurashtra & Kutch:** Keshod (dist Junagadh) 13, Manavadar (dist Junagadh) 8, Mendarda (dist Junagadh) 8, Visavadar (dist Junagadh) 8,
 - **Gujarat Region:** Palsana (dist Surat) 11, Vagra (dist Bharuch) 8, Gandevi (dist Navsari) 8, Silvassa (dist Dadara & Nagar Haveli) 7,
 - **Konkan & Goa:** Bhiwandi (dist Thane) 12, Shriwardhan (dist Raigad) 11, Pen (dist Raigad) 9, Vasai (dist Palghar) 9, Mulde_Agri (dist Sindhudurg) 9, Lanja (dist Ratnagiri) 9, Sudhagad Pali (dist Raigad) 8, Colaba - Imd Obsy (dist Mumbai City) 8, Kudal (dist Sindhudurg) 8, Sanguem (dist South Goa) 7, Rameshwar_agri (dist Sindhudurg) 7, Ponda (dist North Goa) 7,
 - **Gangetic West Bengal:** Birbhum-11, Burdwan-9, Murshidabad, West Midnapore-7 each,
 - **Odisha:** Paradeep Cwr (dist Jagatsinghpur) 11, Kujanga (dist Jagatsinghpur) 11, Odagaon (dist Nayagarh) 10, Puri (dist Puri) 9, Khandapara (dist Nayagarh) 7,
 - **Vidarbha:** Mangrulpir (dist Washim) 8,
 - **Bihar:** Vaishali-10, Bhagalpur-9, Bhabua-8, Muzaffarpur-7,
 - **Jharkhand:** Ramgarh-7,
 - **Sub-Himalaya West Bengal & Sikkim:** Jalpaiguri-7





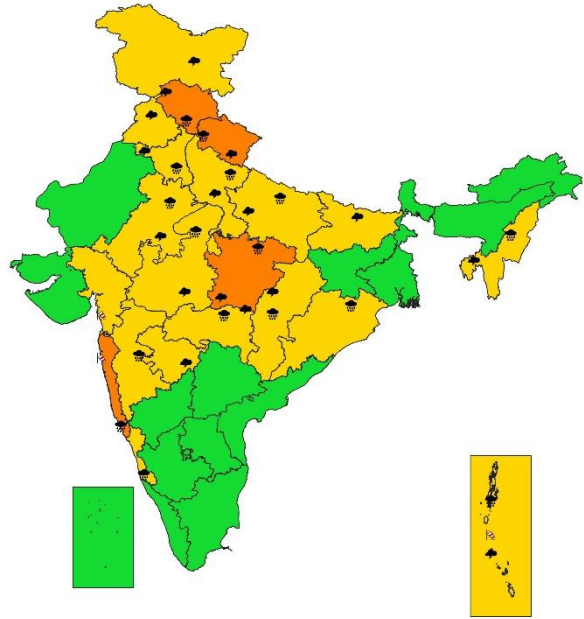
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(16-7-2023)**



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



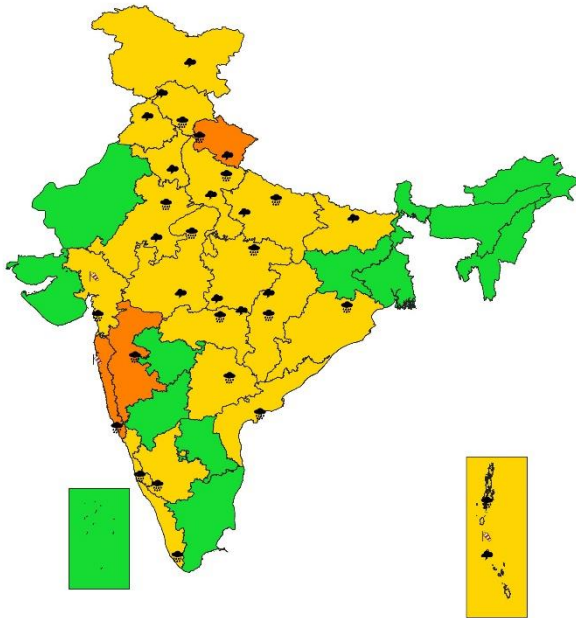
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(17-7-2023)**



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



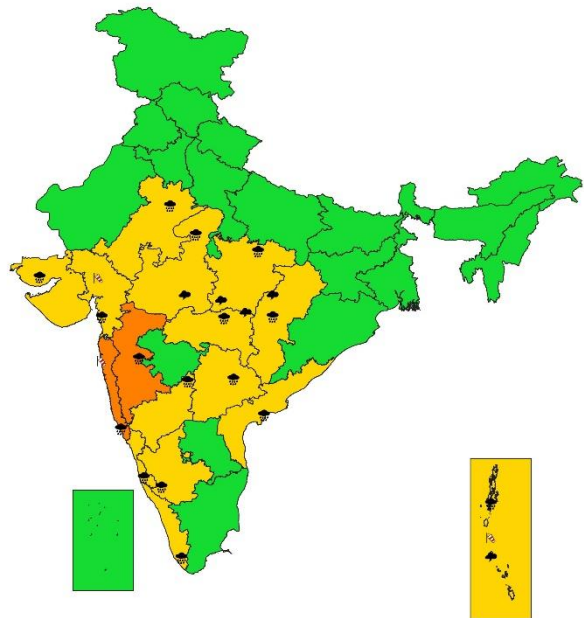
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(18-7-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| 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 RAINFALL FORECAST FOR DAY 5
(19-7-2023)**



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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) |

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

- Drain out excess water from crop fields to avoid water stagnation in Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, West Bengal & Sikkim, Odisha, Madhya Pradesh, Chhattisgarh, Gujarat state, Konkan & Goa, Vidarbha, Coastal Karnataka, Telangana and North Eastern States.
- Postpone transplanting of rice in Uttarakhand.
- Postpone sowing of maize, soybean and vegetables in Uttarakhand.
- Provide staking to vegetables.

Impact & Action Suggested due to very heavy rainfall over Himachal Pradesh, Uttarakhand & Madhya Pradesh, during 15th -17th; Odisha 15th & 16th and over Konkan & adjoining ghat areas of Madhya Maharashtra on 18th & 19th July.

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.

Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **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 Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)

Subdivision Warning	 Dust Storm	Subdivision color
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Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75