



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

**Press Release.**

**Date: 02<sup>nd</sup> October, 2023**

**Time of Issue: 1315 hours IST**

**Subject: 1) Heavy to very heavy rainfall very likely to continue over Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim, north Odisha, north Chhattisgarh during next 2-3 days.**

**2) Significant reduction in rainfall over Maharashtra from today.**

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

**Withdrawal of Southwest Monsoon: (Annexure III)**

- The line of withdrawal of Southwest Monsoon continues to pass through Gulmarg, Dharamshala, Pantnagar, Etawah, Morena, Sawai Madhopur, Jodhpur, Barmer and 25.7°N/70.3°E.
- Conditions continue to remain favourable for further withdrawal of Southwest Monsoon from remaining parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand and West Uttar Pradesh; some more parts of West Madhya Pradesh; remaining parts of Rajasthan and some parts of Gujarat state during next 2 days.

**Significant Weather features:**

- ❖ A **Low Pressure Area** lies over southwest Jharkhand & adjoining north Chhattisgarh.

**Weather Forecast and Warnings: (Annexure II)**

**East India: Rainfall warning:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Jharkhand and north Odisha during 02<sup>nd</sup> to 04<sup>th</sup>; over Bihar and West Bengal & Sikkim during 02<sup>nd</sup> to 05<sup>th</sup>; over Andaman & Nicobar Islands during 04<sup>th</sup> to 06<sup>th</sup> October. **Isolated very heavy rainfall very likely over Jharkhand and north Odisha on 02<sup>nd</sup> and Sub-Himalayan West Bengal & Sikkim on 03<sup>rd</sup> & 04<sup>th</sup> October.**

**Central India:** Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over north Chhattisgarh during 02<sup>nd</sup>-03<sup>rd</sup> and northeast Madhya Pradesh on 02<sup>nd</sup> October. **Isolated very heavy rainfall likely over north Chhattisgarh on 02<sup>nd</sup> October.**

**Northeast India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning

with **isolated heavy rainfall** very likely over Assam & Meghalaya during 02<sup>nd</sup>-05<sup>th</sup>; over Nagaland, Manipur, Mizoram & Tripura during 02<sup>nd</sup>-04<sup>th</sup> and Arunachal Pradesh on 04<sup>th</sup> & 05<sup>th</sup> October.

**Northwest India:** Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** very likely over southeast Uttar Pradesh on 02<sup>nd</sup> & 03<sup>rd</sup> October. Isolated rainfall also likely over Western Himalayan Region during next 24 hours.

**South India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over ghat areas of Tamil Nadu and Kerala & Mahe on 02<sup>nd</sup> October.

**West India: Rainfall warning:** Light/moderate isolated to scattered rainfall/thunderstorm & lightning over Madhya Maharashtra and Marathwada on 02<sup>nd</sup> October.

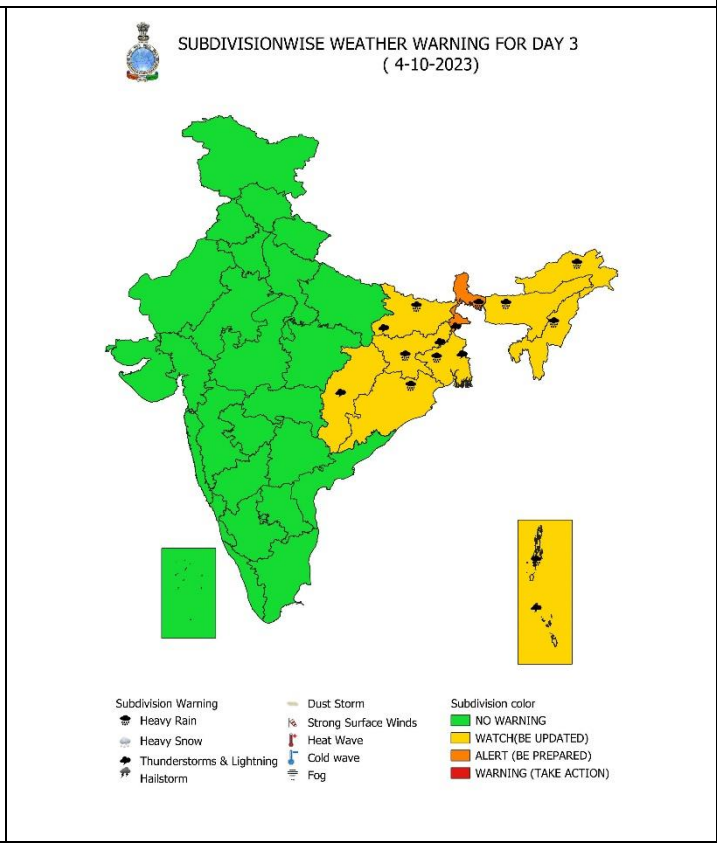
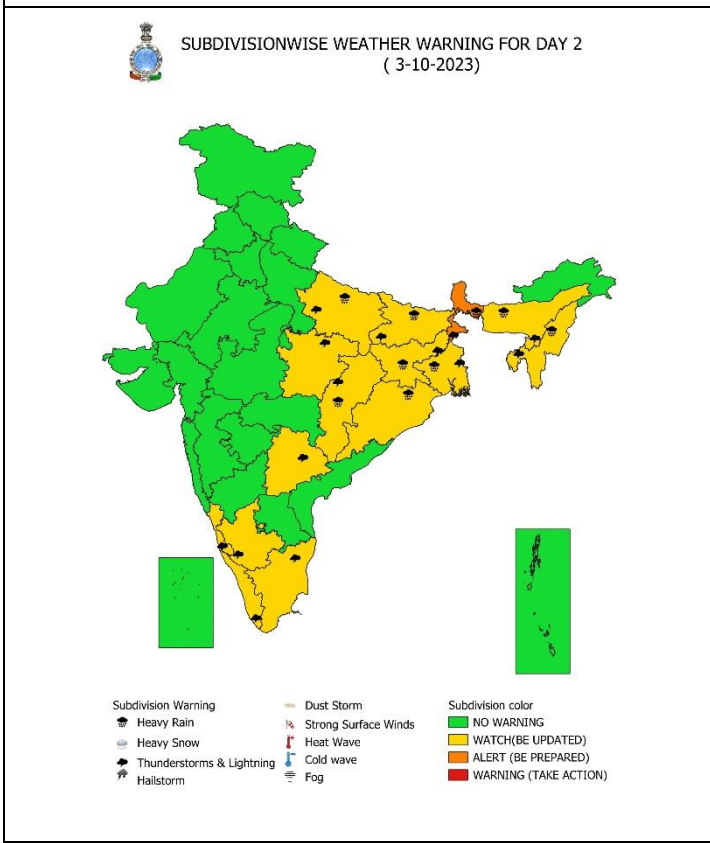
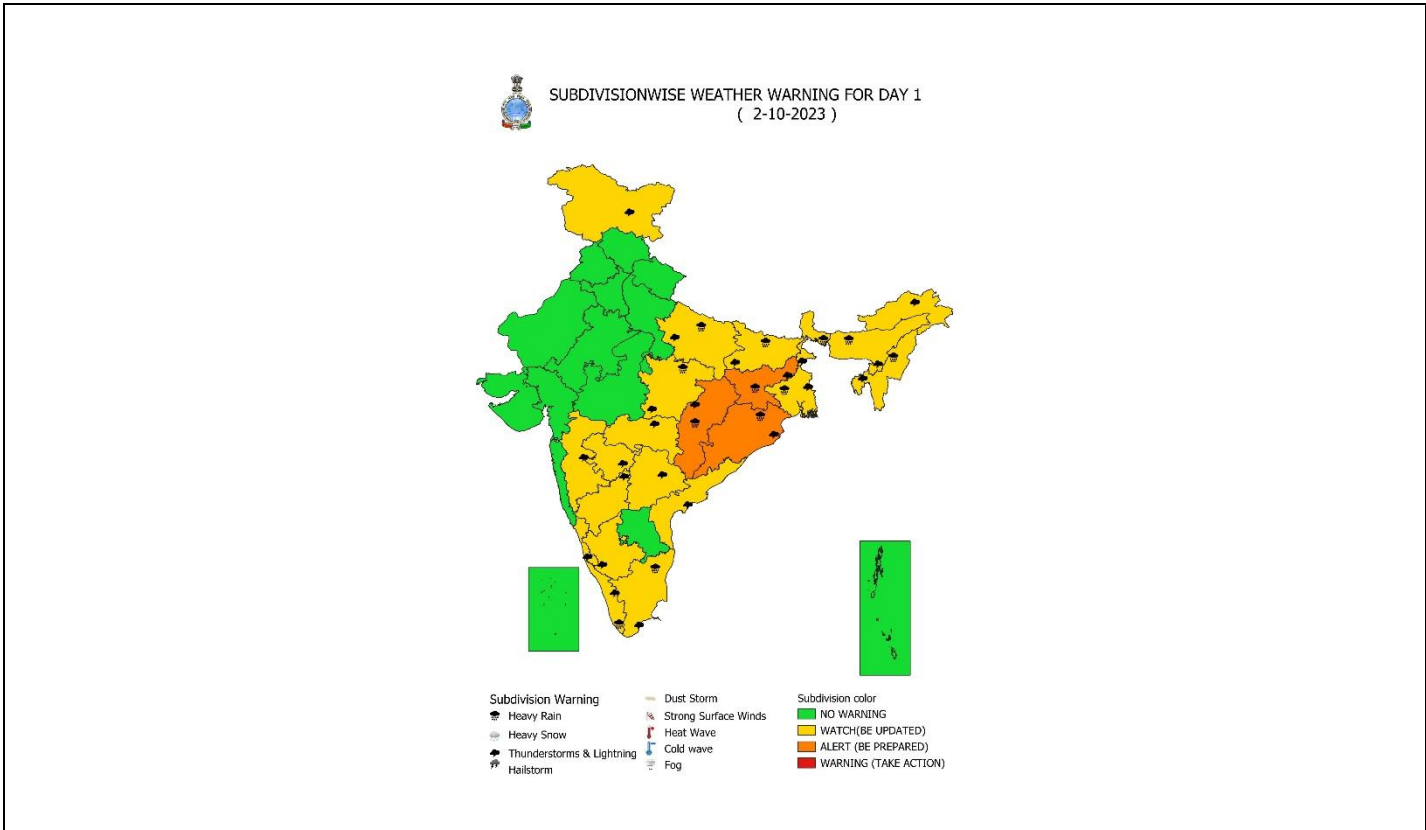
For more details kindly refer:

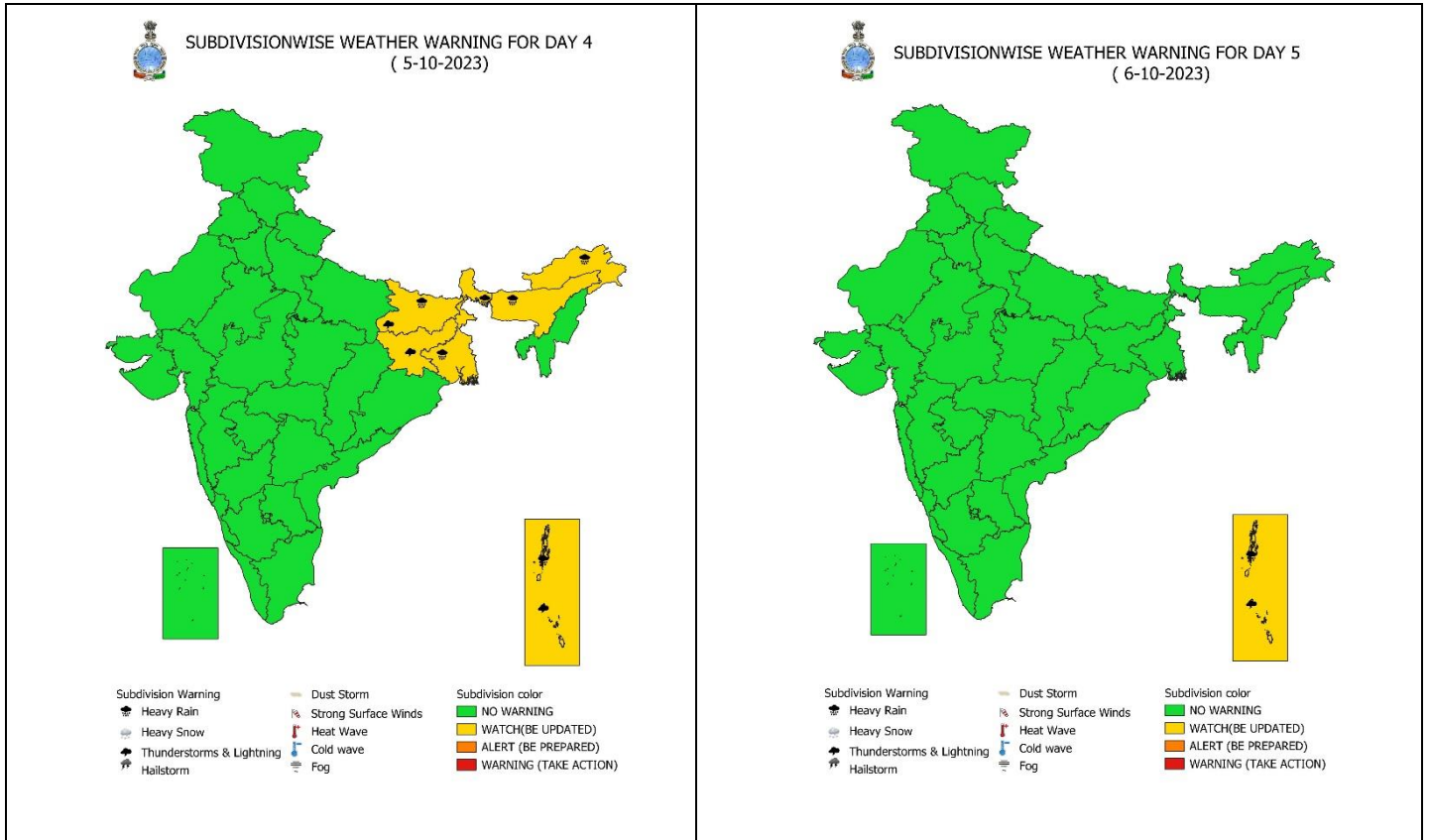
[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

**Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 02<sup>nd</sup> October, 2023):**

- **Heavy to very heavy rainfall** at isolated places over Chhattisgarh, Jharkhand and Konkan & Goa and **heavy rainfall** at isolated places over Odisha, Bihar, Madhya Maharashtra, Marathwada, Assam & Meghalaya and Kerala & Mahe.
- **Significant rainfall recorded (in cm):**
  - ✓ **Jharkhand:** Bhawnathpur-19; Hazaribagh Dvc-13; Ketar-12; Bardiha-11; Shilaichak-10; Palganj-10; Hendigir-10; Bhurkunda-9; Sagma-9; Nagar Untari-8; Bau Kanke-8; Phusro-8; Koner Dvc-8; Bokaro Thermal-8; Palamu Dtg Kvk Aws-8; Dhurki-7; Chandrapura-7; Ramgarh Kvk Aws-7; Lohardaga Kvk Aws-7;
  - ✓ **Konkan & Goa:** Sangameshwar Devrukh (dist Ratnagiri) 16, Wakwali\_agri (dist Ratnagiri) 13, Mandangad (dist Ratnagiri) 12, Poladpur (dist Raigad) 12, Khed (dist Ratnagiri) 11, Ratnagiri - Imd Obsy (dist Ratnagiri) 10, Shriwardhan (dist Raigad) 9, Dapoli\_agri (dist Ratnagiri) 9, Harnai Imd Obsy (dist Ratnagiri) 8, Guhagarh (dist Ratnagiri) 7, Chiplun (dist Ratnagiri) 7, Lanja (dist Ratnagiri) 7;
  - ✓ **Chhattisgarh:** Kusmi (dist Balrampur) 13, Balrampur (dist Balrampur) 6;
  - ✓ **Odisha:** Padampur (dist Bargarh) 11, Padmapur (dist Rayagada) 11, Kankadahad (dist Dhenkanal) 11, Sonapur (dist Sonapur) 11, Khairamal (dist Boudhgarh) 10, Bamra (dist Sambalpur) 10, Jujumura (dist Sambalpur) 9, Akhuapada (dist Bhadrak) 9, Birmaharajpur (dist Sonapur) 7, Binjharpur (dist Jajpur) 7, Naktideul (dist Sambalpur) 7, Bhuban (dist Dhenkanal) 7, Marsaghai (dist Kendrapara) 7;
  - ✓ **Bihar:** Hisua (dist Nawada) 10, Rajauli (dist Nawada) 8, Nauhatta (dist Rohtas) 7, Narhat (dist Nawada) 7, Fatehpur (dist Gaya) 7, Rosera (dist Samastipur) 7, Hasanpur (dist Samastipur) 7, Bodh Gaya (dist Gaya) 7, Sherghati (dist Gaya) 7;
  - ✓ **Kerala & Mahe:** Vakkad Aws (dist Malappuram) 9, Idamalayar Dam Aws (dist Ernakulam) 9, Chemberi Aws (dist Cannur) 8, Thiruvananthapuram (dist Thiruvananthapuram) 7, Laha Aws (dist Pathanamthitta) 7;
  - ✓ **Madhya Maharashtra:** Lonavala\_agri (dist Pune) 7, Mahabaleshwar- Imd Obsy (dist Satara) 7;
  - ✓ **Assam & Meghalaya:** Shella (dist East Khasi Hills) 7;
  - ✓ **Marathwada:** Udgir (dist Latur) 10, Chakur (dist Latur) 7.

**Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation





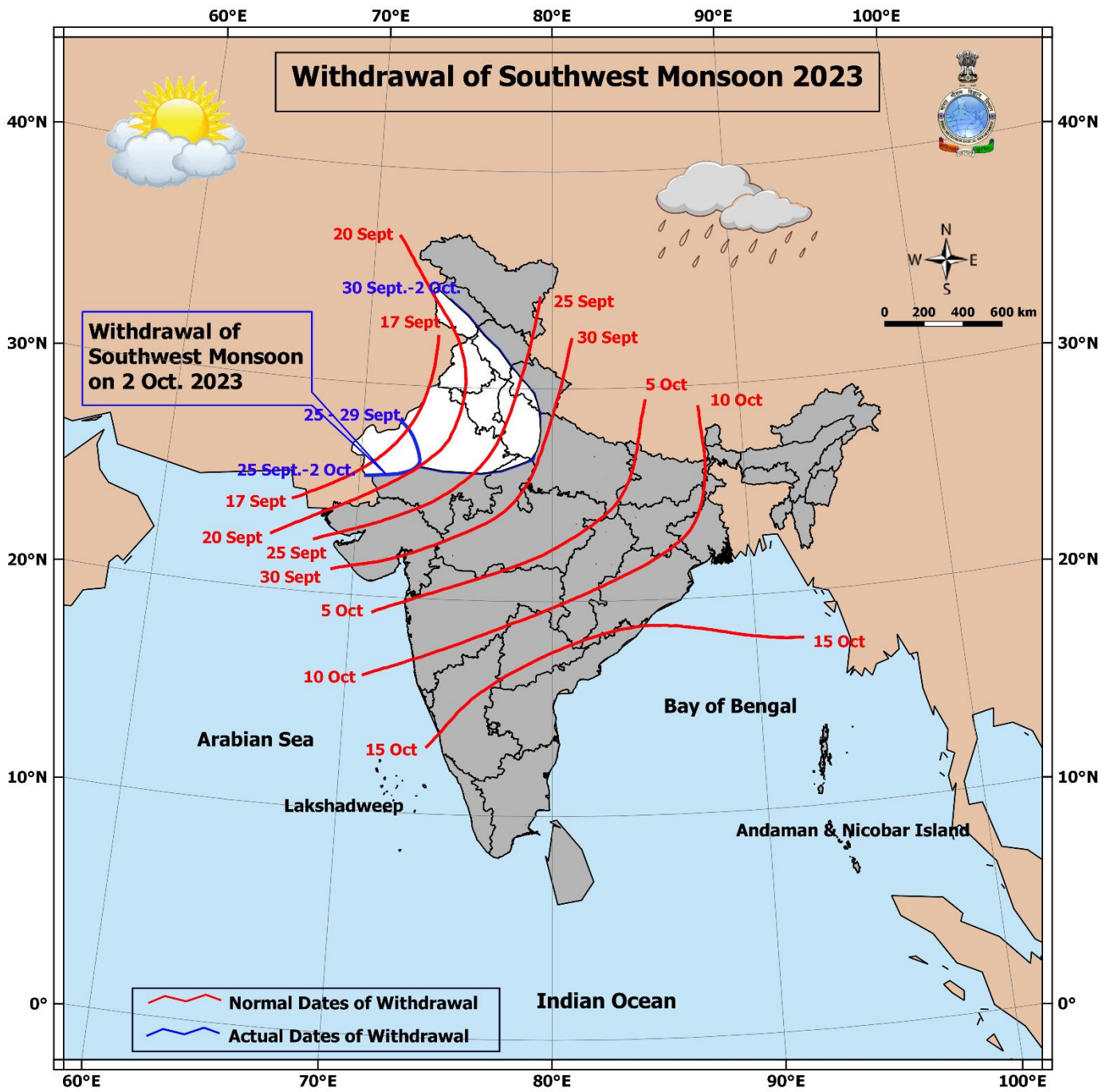
**Impact & Action Suggested due to very heavy rainfall/extremely heavy falls** over north Chhattisgarh, north Odisha & Jharkhand on 02<sup>nd</sup> October and over Sub-Himalayan West Bengal & Sikkim on 03<sup>rd</sup> & 04<sup>th</sup> October, 2023.

### 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 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.
- ❖ **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)