



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

**Press Release.**

**Date: 06<sup>th</sup> October, 2023**

**Time of Issue: 1345 hours IST**

**Subject: I) Further withdrawal of Southwest Monsoon from remaining parts of Northwest India, some more parts of Central India and remaining parts of Gujarat and some parts of Maharashtra.**

**II) Isolated heavy to very heavy rainfall likely over Northeast India during next 24 hours and reduction thereafter.**

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

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

- ❖ Today, the Southwest Monsoon has withdrawn from remaining parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Gujarat state; some parts of East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Marathwada, Madhya Maharashtra and Konkan; entire North Arabian Sea and some parts of Central Arabian Sea.
- ❖ The line of withdrawal of Southwest Monsoon now passes through 28.6°N/80.6°E, Lucknow, Satna, Nagpur, Parbhani, Pune, Alibag and 18.9°N/70.0°E.
- ❖ Conditions are favourable for further withdrawal of Southwest Monsoon from remaining parts of East Uttar Pradesh, East Madhya Pradesh; some parts of Bihar, Jharkhand, Odisha, Chhattisgarh, Telangana; and some more parts of Maharashtra and Central Arabian Sea during next 2-3 days.

**Significant Weather features:**

- ❖ A **Low Pressure Area** lies over Central Parts of Bangladesh & neighbourhood.
- ❖ A trough runs from Nagaland to southwest Bihar across the cyclonic circulation associated with the above Low Pressure Area in lower tropospheric levels.

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

**Northeast India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Assam & Meghalaya during 06<sup>th</sup> to 07<sup>th</sup>; over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura on 06<sup>th</sup> October.

**Isolated very heavy rainfall over Assam and Isolated extremely heavy rainfall very likely over Meghalaya on 06<sup>th</sup> October.**

**East India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Andaman & Nicobar Islands during 07<sup>th</sup> to 08<sup>th</sup> October.

**South India:** Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 08<sup>th</sup> to 09<sup>th</sup> October.

**Northwest, Central & West India:** No significant weather over the region during next 5 days.

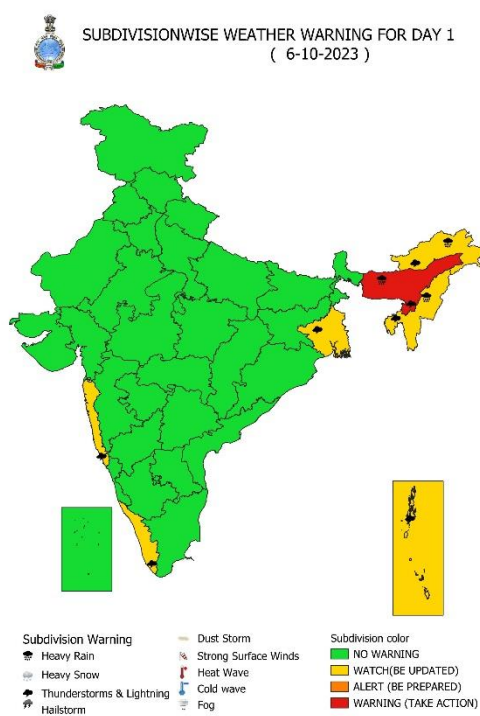
**For Flash Flood Guidance Map (Annexure IV)**

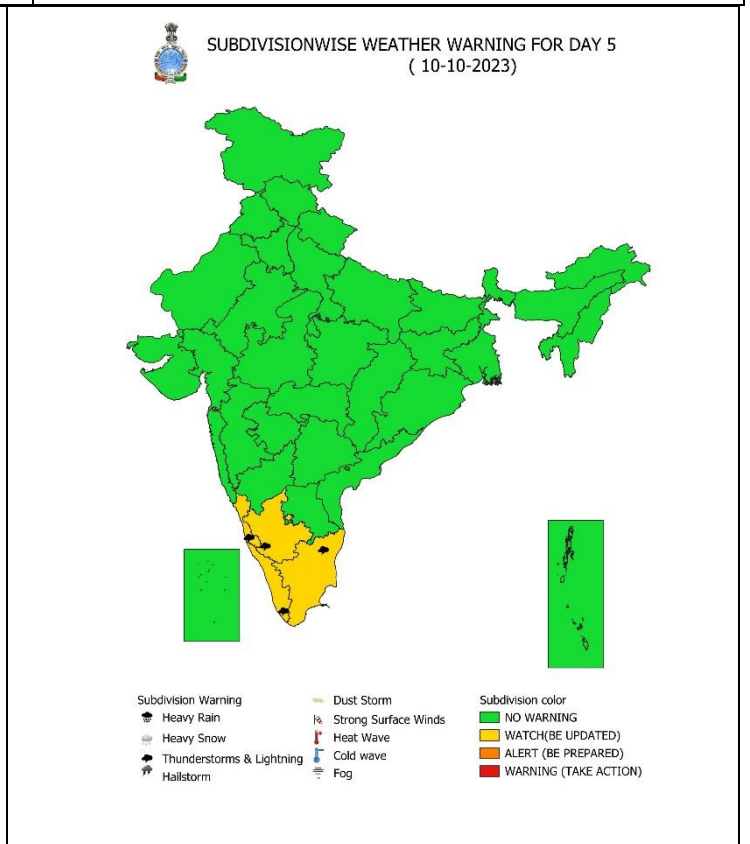
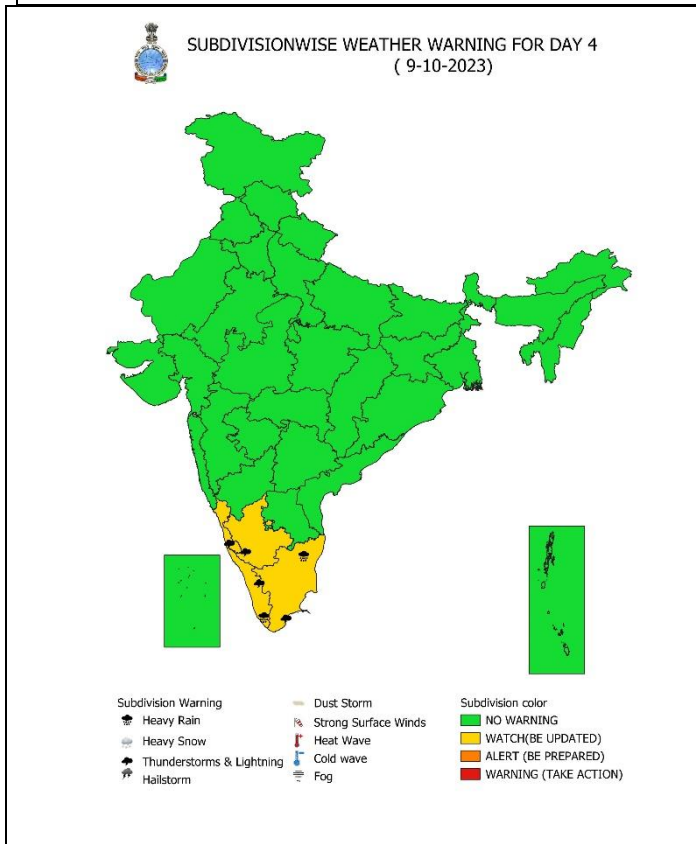
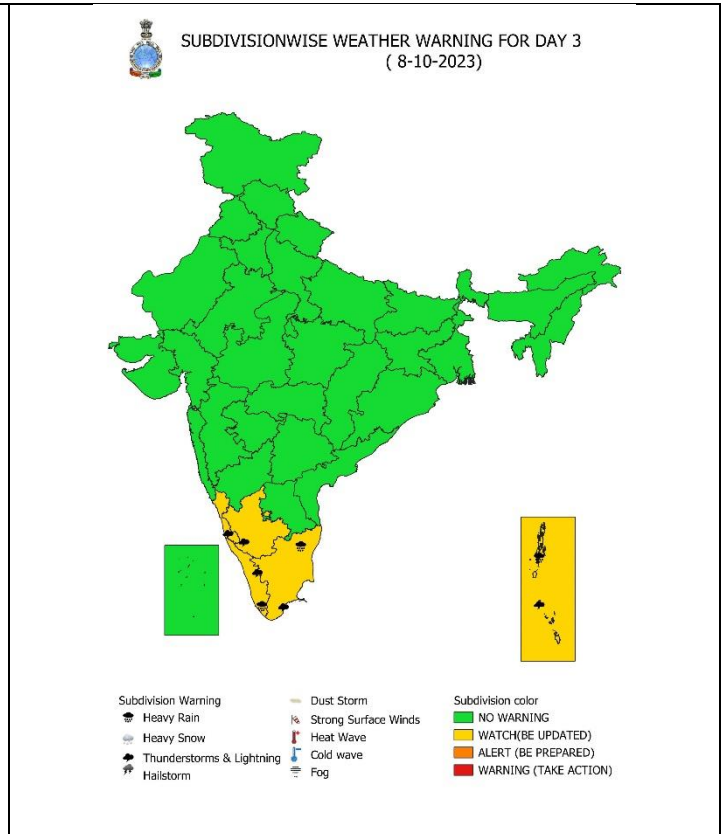
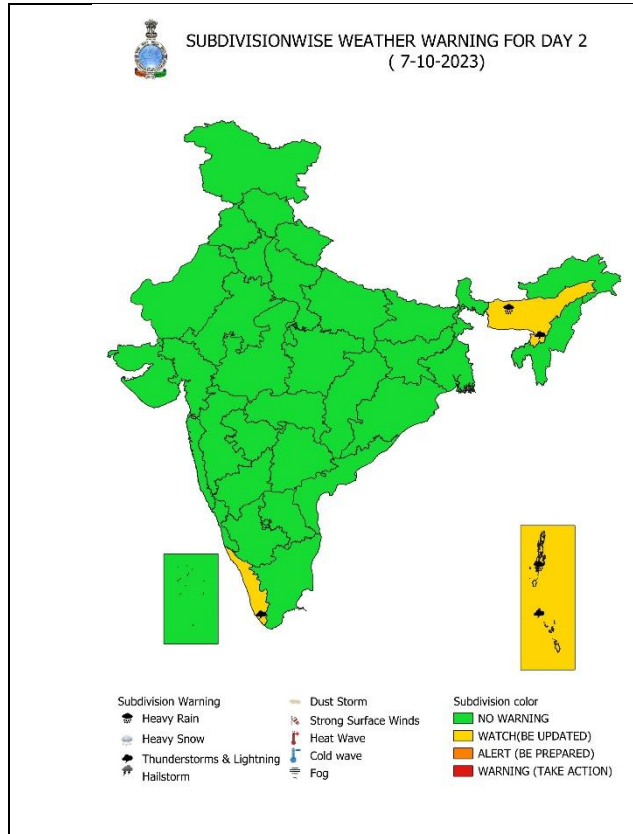
For more details kindly refer: [https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

**Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 06<sup>th</sup> October, 2023):**

- ❖ **Heavy to very heavy rainfall** at isolated places over Assam & Meghalaya and **heavy rainfall** at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe
- ❖ **Significant rainfall recorded (in cm):**
- ✓ **Assam & Meghalaya:** Sohra (Dist: East Khasi Hills) 17, Mawkyrwat (Dist: West Khasi Hills) 14 , Khata Laitkroh Arg (Dist: East Khasi Hills) 14 , Chandmari (Dist: Kamrup Metro) 13, Shella (Dist: East Khasi Hills ) 12 , Bihubar(Dist: Sibsagar) 12, Sohra Rkm (Dist: East Khasi Hills) 11, Pynursla (Dist: East Khasi Hills) 11 , Mawphlang (Dist: East Khasi Hills) 10, Gandhimandap (Dist: Kamrup Metro)10 , Williamnagar (Dist: East Garo Hills) 09 , Lumbding (Dist: Nagaon) 08, Baghmara (Dist: South Garo Hills) 08
- ✓ **Tamil Nadu, Puducherry & Karaikal:** Taluk Office, Chengam (dist Tiruvannamalai) 10, RSCL-3 Vallam (dist Villupuram), Kattapakkam KVK (dist Kanchipuram) 6 each, Puthan Dam (dist Kanyakumari), Perunchani (dist Kanyakumari) 5 each;
- ✓ **Kerala & Mahe:** Aryankavu (dist Kollam) 9, Laha Aws (dist Pathanamthitta) 5;
- ✓ **Konkan & Goa:** Sanguem (dist South Goa) 6, Sawantwadi (dist Sindhudurg) 6, Ponda (dist North Goa) 5, Quepem (dist South Goa) 5;
- ✓ **Gangetic West Bengal:** Berhampore - 6, Bongaon-6, Amta-5, Nalhati- 4, Haringhata-4
- ✓ **Sub-Himalaya West Bengal:** Bagarkote-5
- ✓ **Bihar:** Lauria Nandargarh (dist West Champaran) 5, Thakrahan (dist West Champaran) 5.

**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 rainfall over Assam & Meghalaya on 06<sup>th</sup>October, 2023.**

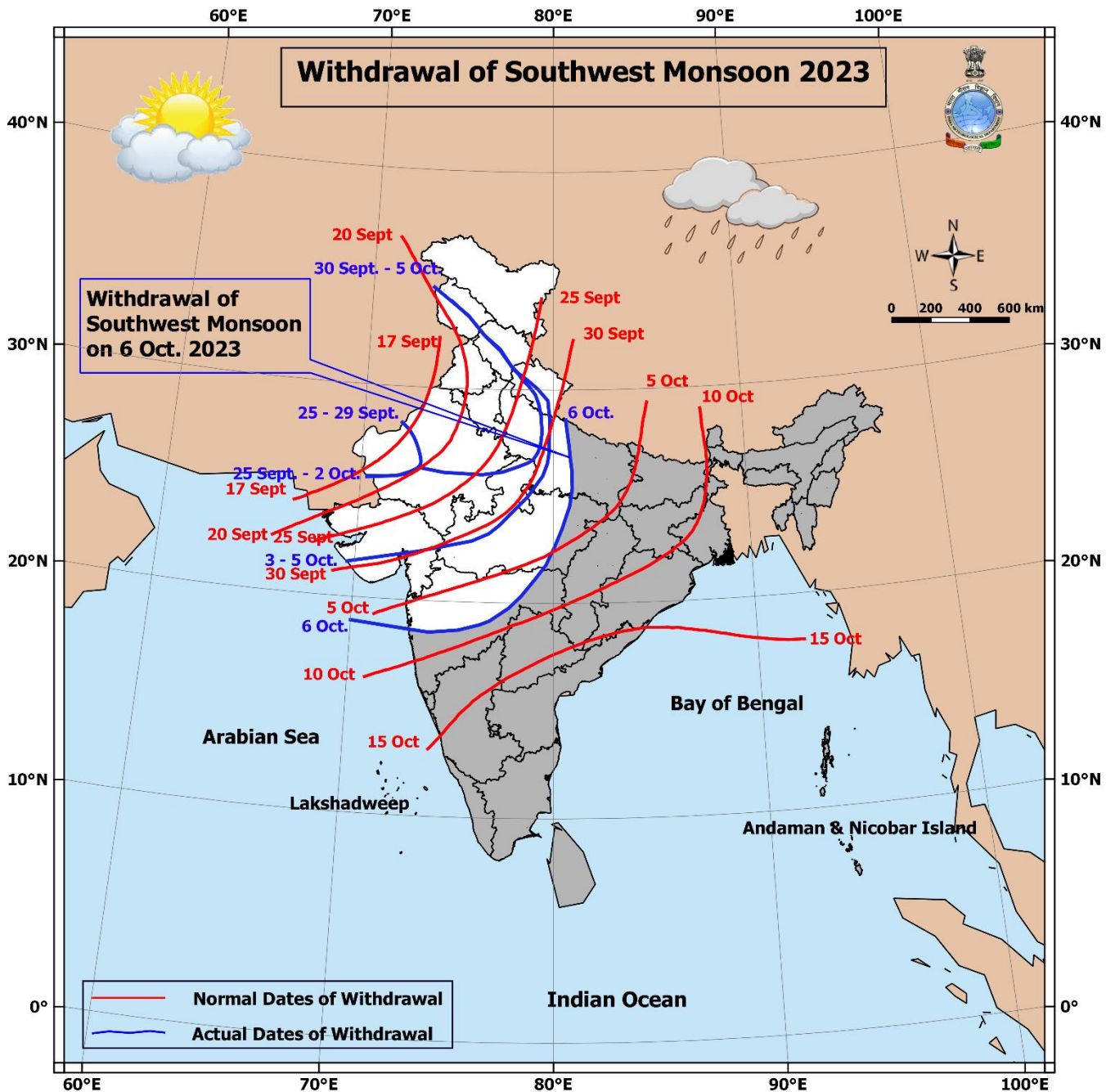
#### A. Impact Expected

- ❖ 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

**Annexure III**



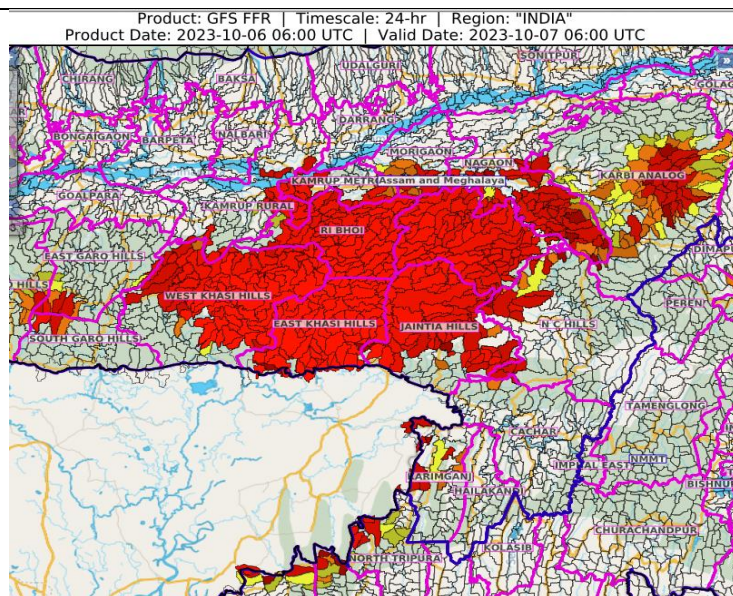


## Flash Flood Guidance Map

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 07-10-2023 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of Assam & Meghalaya and North Western Parts of Nagaland, Manipur, Mizoram & Tripura Met Sub-divisions during next 24 hours.














Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.




## 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)