



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

**Press Release
Date: 16th October, 2023
Time of Issue: 1300 hours IST**

**Subject: 1) Wet spell likely to continue over Northwest India till 17th October.
2) Heavy to very heavy rainfall very likely to continue over Tamil Nadu and Kerala during next 24 hours and reduction thereafter.**

Rainfall recorded during past 24 hours till 0830 hours IST of today, the 16th Oct, 2023 (Annexure I)

Withdrawal of Southwest Monsoon: (Annexure II)

- ❖ Conditions are becoming favourable for further withdrawal of Southwest Monsoon from remaining parts of Bihar, Sub-Himalayan West Bengal & Sikkim, entire Northeast India, some more parts of Andhra Pradesh, remaining parts of Telangana, some more parts of North & Central Bay of Bengal during next 48 hours.
- ❖ The line of withdrawal of Southwest Monsoon continues to pass through Forbesganj, Malda, 24.0°N/89.0°E, 20.0°N/89.0°E, Vishakhapatnam, Nalgonda, Raichur, Vengurla & 16.0°N/70.0°E.

Significant Weather features:

- ❖ Yesterday's **Western Disturbance** now seen as a cyclonic circulation over north Pakistan & neighbourhood in lower & middle tropospheric levels and its induced cyclonic circulation lies over Haryana & neighbourhood in lower levels. Another Western Disturbance over Jammu & adjoining Pakistan has merged with the above system.
- ❖ In addition, there is moisture feeding from Arabian Sea to northwest India in lower tropospheric levels.
- ❖ A cyclonic circulation lies over coastal Tamil Nadu & neighbourhood in lower tropospheric levels.
- ❖ Yesterday's cyclonic circulation over Lakshadweep area and adjoining Southeast Arabian Sea & Kerala coast now lies over Southeast Arabian Sea & adjoining Lakshadweep area in lower tropospheric levels and extends upto 3.1 km above mean sea level. Under its influence, A Low Pressure Area is likely to develop over southeast & adjoining eastcentral Arabian sea during next 48 hours. It is likely to move further west-northwestwards and intensify into a depression over central Arabian sea around 21st October, 2023.

Weather warnings for next 5 days: (Graphics in Annexure III)

Northwest India: Light to moderate rainfall at many places accompanied with isolated thunderstorm & lightning at isolated places very likely over the entire region on 16th & 17th October and reduction thereafter. **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Punjab today. **Hailstorm** also likely at isolated places over Uttarakhand and West Rajasthan today.

South India: Light to moderate rainfall at many places with isolated **heavy rainfall** accompanied with thunderstorm & lightning very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe on 16th & 17th October and over South Interior Karnataka on 16th October, 2023.

Very heavy rainfall at isolated places over Kerala and Tamil Nadu on 16th October.

East India: Light to moderate rainfall at many places with isolated **heavy rainfall** accompanied with thunderstorm & lightning very likely over Andaman & Nicobar Islands on 17th & 18th October.

No significant weather over rest parts of the country during next 5 days.

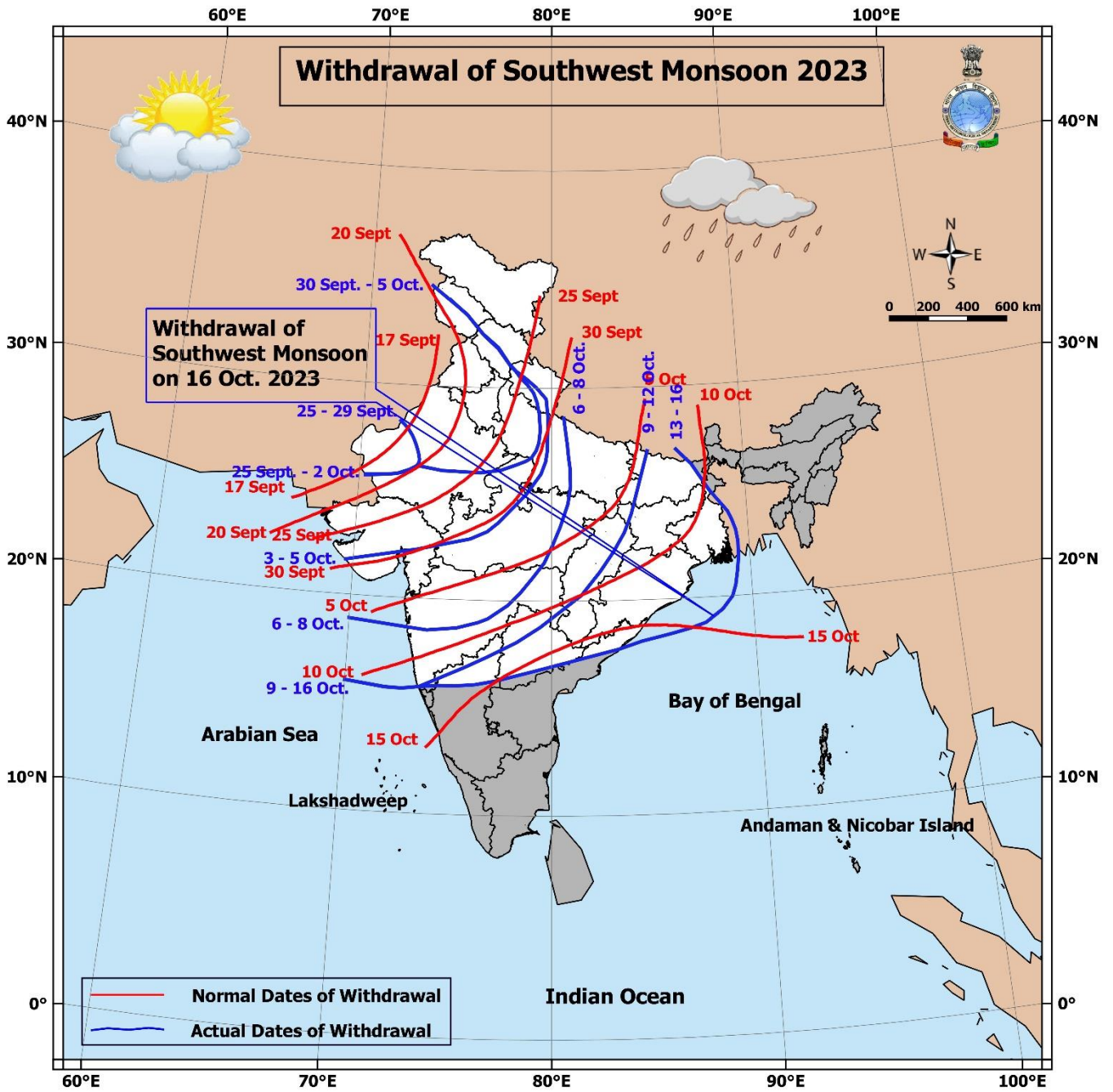
For more details kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

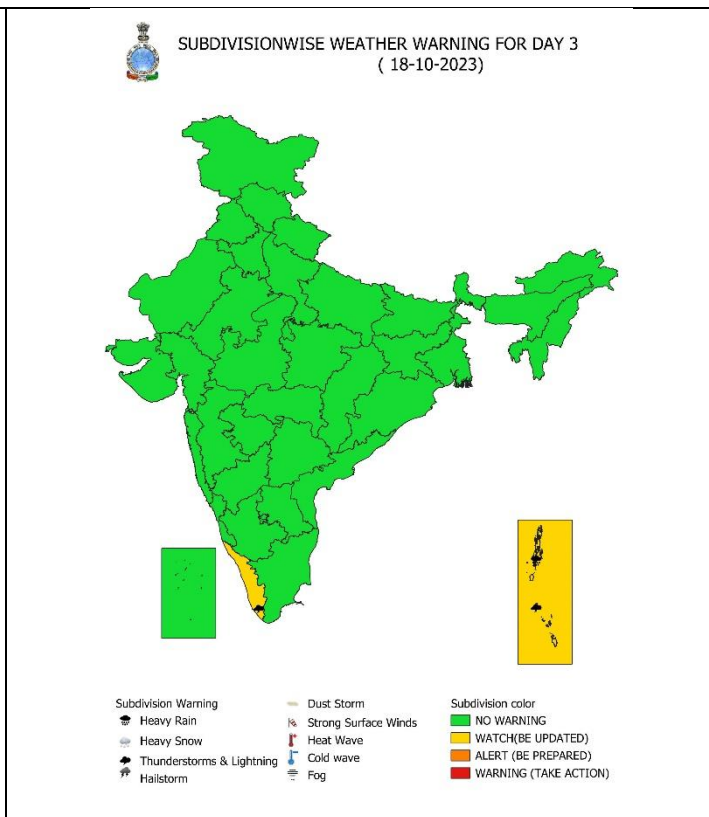
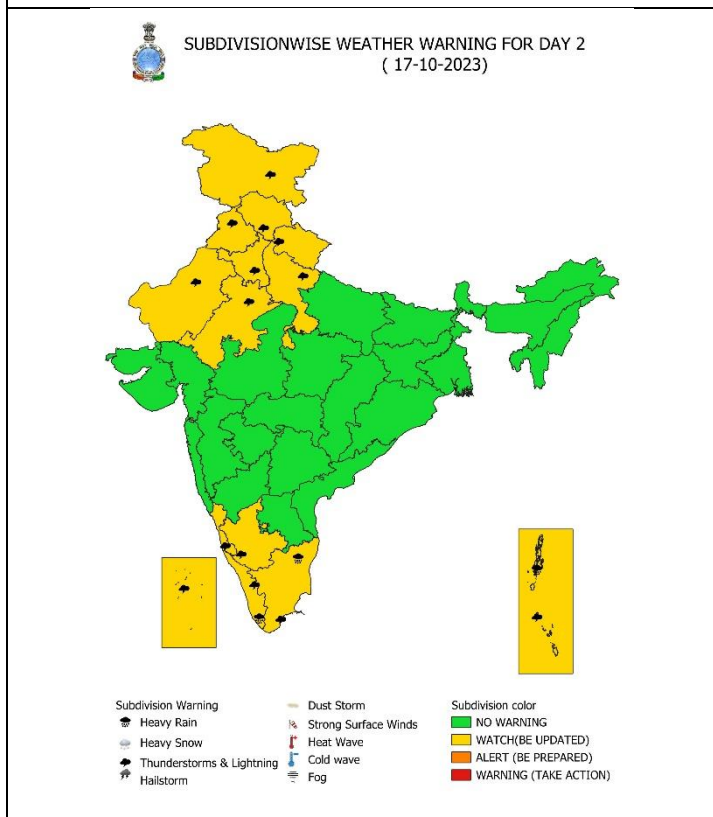
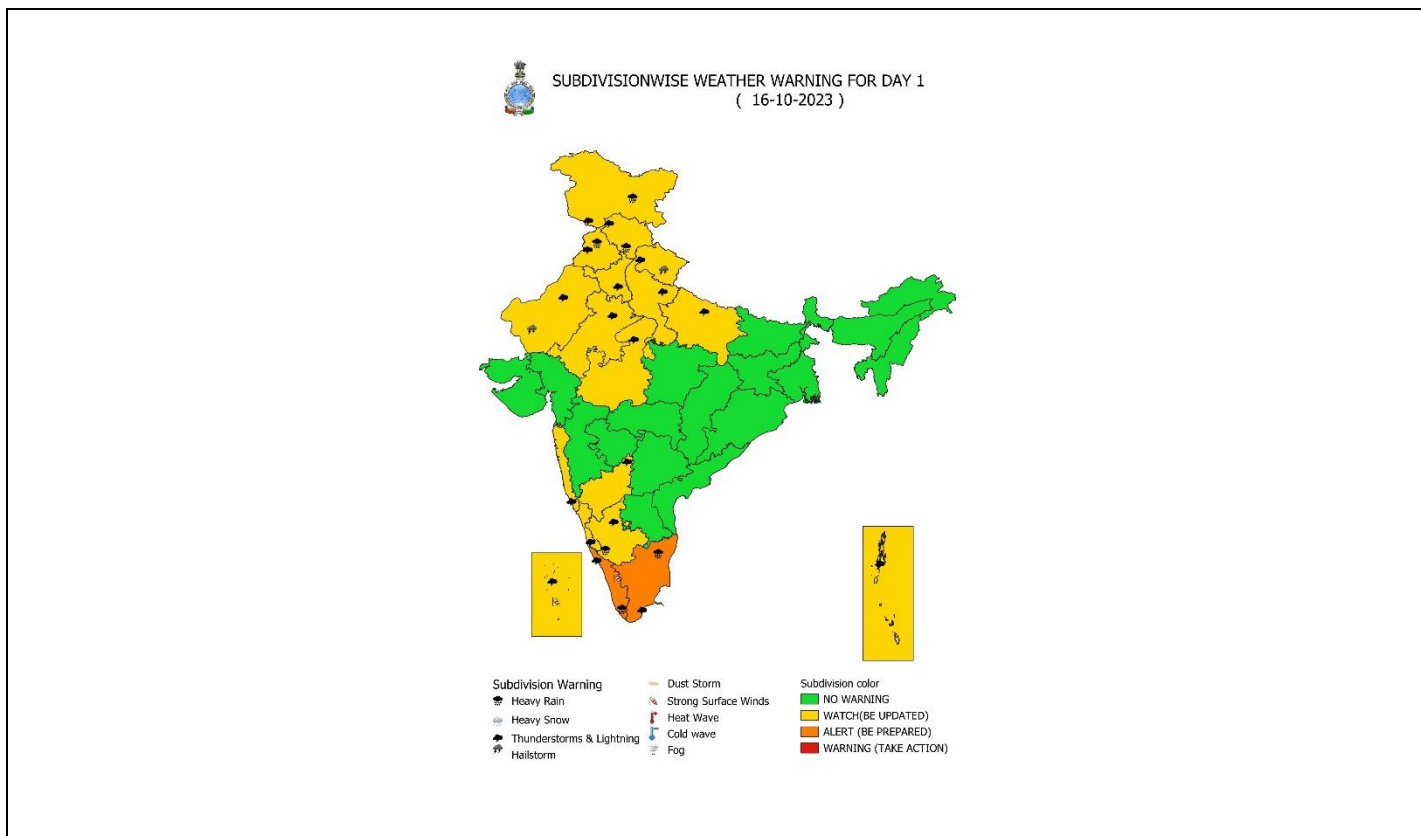
Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 16th October, 2023):

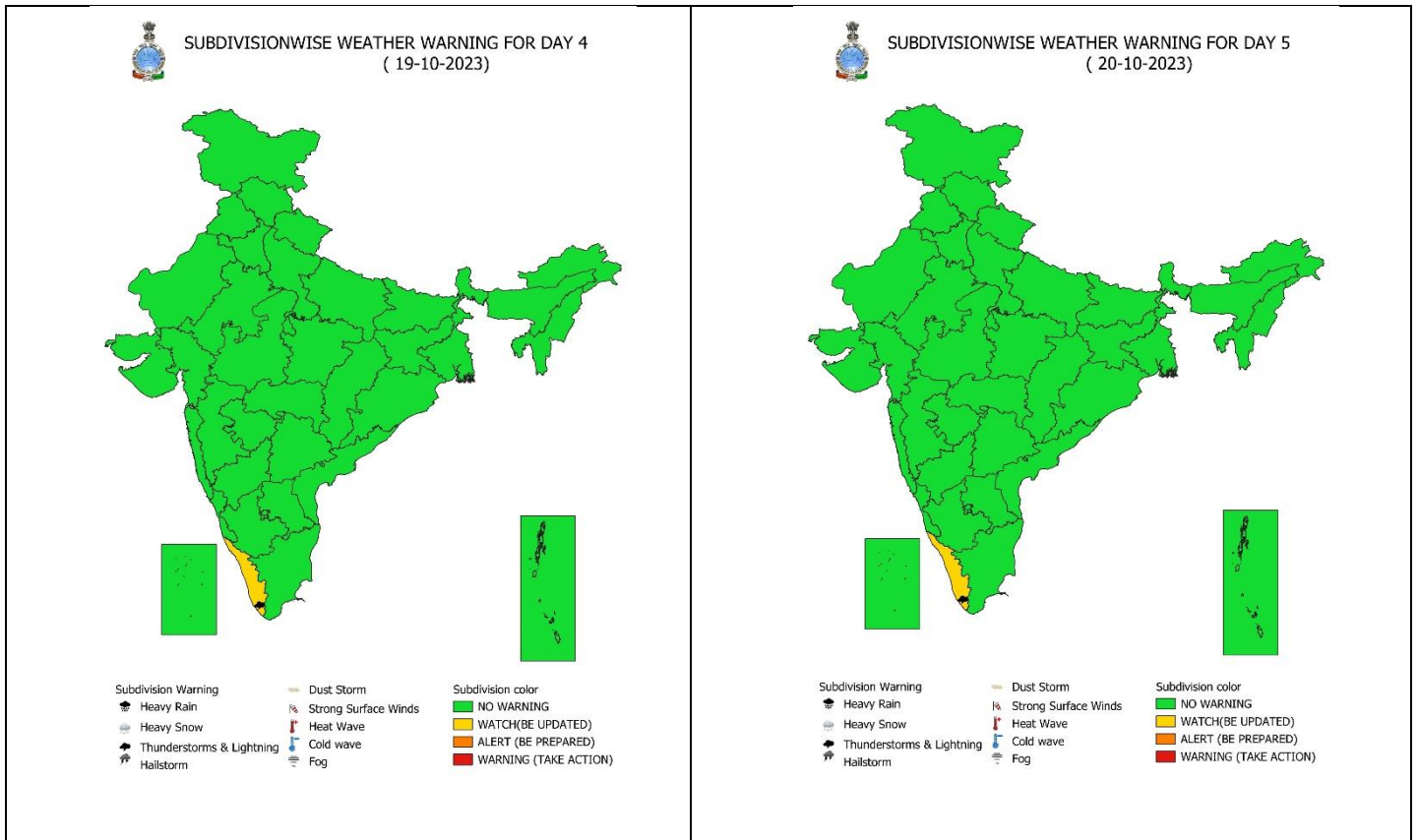
- ❖ **Heavy to very heavy rainfall** recorded at isolated places over Tamil Nadu and **Heavy rainfall** at isolated places over Konkan & Goa and Kerala.

- ❖ **Significant rainfall recorded (in cm):**
 - ✓ **Tamil Nadu:** Periyakulam (dist. Theni) 14, Peraiyur (dist. Madurai) 10, Sothuparai (dist. Theni) 9, Kamuthi (dist. Ramanathapuram) 9, Virudhunagar (dist. Virudhunagar) 9, Periyakulam (dist. Theni) 9, Thondi (dist. Ramanathapuram) 9, Tiruchuli (dist. Virudhunagar) 8, Manamelkudi (dist. Pudukkottai) 7, Sankarapuram (dist. Kallakurichi) 7, Mudukulathur (dist. Ramanathapuram) 7, Adirampatnam (dist. Thanjavur) 7,
 - ✓ **Kerala & Mahe:** Mannarkkad (dist Palakkad) 9, Myladumpara_agri (dist Idukki) 7,
 - ✓ **Konkan & Goa:** Kankavli (dist Sindhudurg) 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 over Kerala and Tamil Nadu on 16th 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)