



Government of India  
Ministry of Earth Sciences  
India Meteorological Department

Press Release  
Date: 24<sup>th</sup> September, 2023  
Time of Issue: 1345 hours IST

**Subject:** 1) Heavy to very heavy rainfall likely to continue over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim and adjoining Assam and Meghalaya during next 24 hours and decrease thereafter.  
2) Conditions are becoming favourable for withdrawal of Southwest Monsoon from parts of West Rajasthan during next 24 hours.  
3) Isolated heavy to very heavy rainfall also likely over south Gujarat Region and adjoining Konkan and ghat areas of Madhya Maharashtra during next 24 hours.  
4) A Low Pressure Area is likely to form over north Andaman Sea & adjoining Eastcentral Bay of Bengal by around 30<sup>th</sup> September, 2023. Thereafter, it is likely to move west-northwestwards with possibility of gradual intensification.

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

- ❖ **Withdrawal of Southwest Monsoon:**  
Due to anti-cyclonic flow developing over northwest India at lower tropospheric levels and dry weather prevailing over parts of southwest Rajasthan, conditions are becoming favourable for withdrawal of Southwest Monsoon from parts of West Rajasthan during next 24 hours.
- ❖ A cyclonic circulation lies over Southeast Uttar Pradesh & neighbourhood in lower tropospheric levels.
- ❖ Another cyclonic circulation lies over south Gujarat region in lower & middle tropospheric levels.
- ❖ A cyclonic circulation is likely to form over north Andaman Sea & neighbourhood on 29<sup>th</sup> September. Under its influence a **Low Pressure Area** is likely to form over north Andaman Sea & adjoining Eastcentral Bay of Bengal during subsequent 24 hours. Thereafter, it is likely to move west-northwestwards with possibility of gradual intensification.

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

**East India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Bihar on 24<sup>th</sup> & 25<sup>th</sup>; over Sub-Himalayan West Bengal & Sikkim on 24<sup>th</sup>; Andaman & Nicobar Islands during 24<sup>th</sup> -28<sup>th</sup> September.

**Isolated very heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim and Bihar on**

**24<sup>th</sup>; over Andaman & Nicobar during 26<sup>th</sup>- 28<sup>th</sup> September.**

**Isolated extremely heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim and Bihar today, the 24<sup>th</sup> September, 2023.**

**Northeast India:** Light/moderate fairly widespread rainfall/thunderstorm with isolated **heavy rainfall** activity very likely over Arunachal Pradesh, Assam & Meghalaya on 24<sup>th</sup> September.

**Isolated very heavy rainfall very likely over west Assam & Meghalaya on 24<sup>th</sup> September**

**Central India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over East Madhya Pradesh and south Chhattisgarh on 24<sup>th</sup> September.

**South India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Coastal Andhra Pradesh, Rayalaseema, Telangana, South Interior Karnataka, Tamil Nadu on 24<sup>th</sup>; Coastal Karnataka and Kerala on 24<sup>th</sup>, 27<sup>th</sup> & 28<sup>th</sup>; North Interior Karnataka on 24<sup>th</sup>, 25<sup>th</sup>, 27<sup>th</sup> & 28<sup>th</sup> September.

**Northwest India:** Light/moderate scattered to fairly widespread rainfall/thunderstorm with isolated **heavy falls** very likely over Haryana and Punjab on 24<sup>th</sup> September.

**West India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Konkan & Goa on 24<sup>th</sup>, 25<sup>th</sup> & 28<sup>th</sup>; Madhya Maharashtra on 24<sup>th</sup>, 27<sup>th</sup> & 28<sup>th</sup> and Marathwada on 24<sup>th</sup> & 27<sup>th</sup>; Saurashtra & Kutch on 24<sup>th</sup>; Gujarat Region during 24<sup>th</sup> -28<sup>th</sup> September.

**Isolated very heavy rainfall very likely over Konkan & Goa and Gujarat Region on 24<sup>th</sup> September.**

Isolated to scattered light/moderate rainfall likely over rest parts of the country during next 5 days.

For more details kindly refer:

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

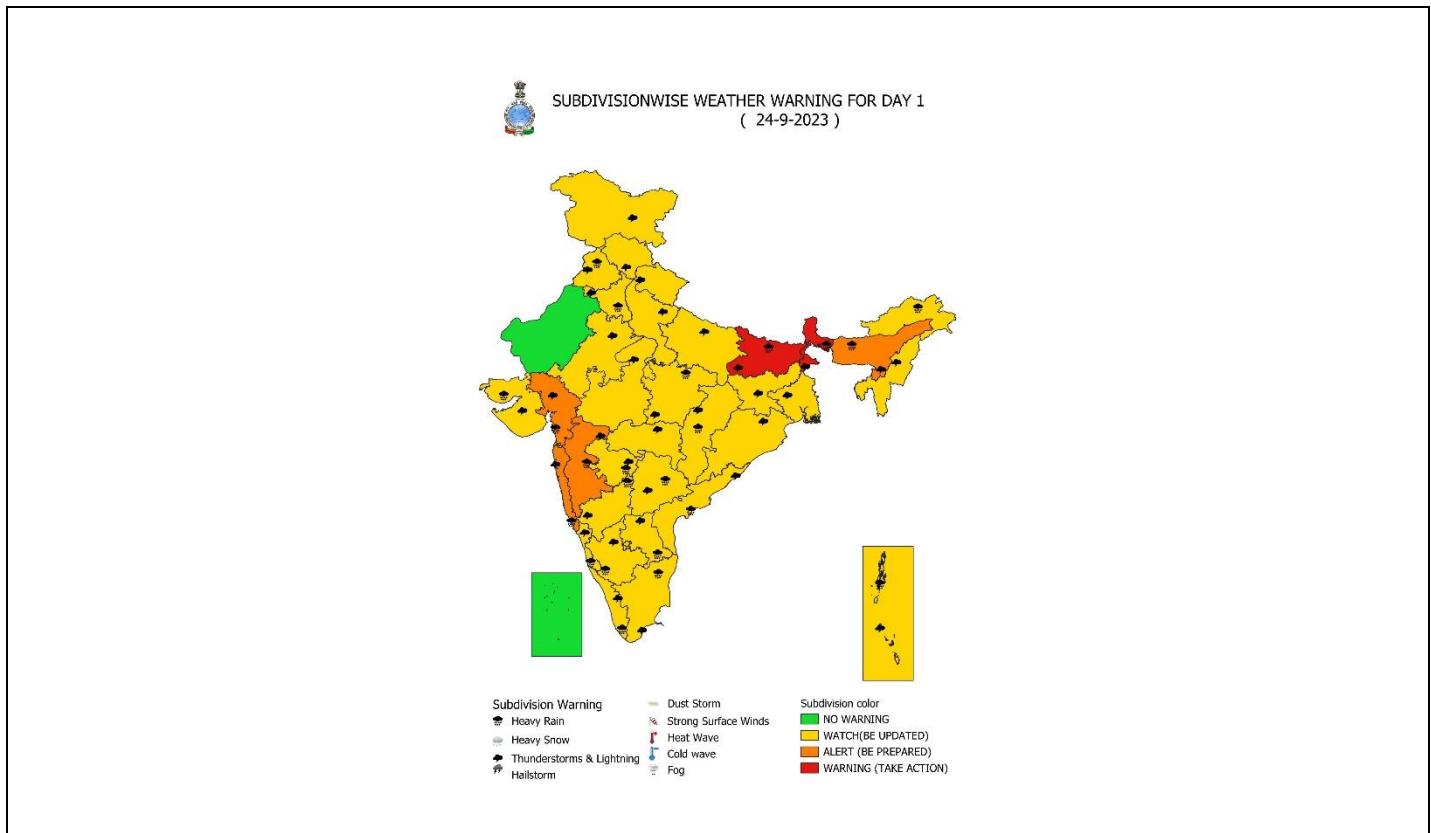
**Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 24<sup>th</sup> September, 2023):**

- **Extremely heavy rainfall** at isolated places over Bihar; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Gujarat Region, Tamil Nadu, Andaman & Nicobar Islands, Saurashtra & Kutch; and **heavy rainfall** at isolated places over Konkan & Goa, Kerala & Mahe, Rayalaseema, Karnataka, Telangana, Chhattisgarh, Coastal Andhra Pradesh, East Rajasthan and Arunachal Pradesh.
- **Significant rainfall recorded (in cm):**
- ✓ **Bihar:** Basua (dist Supaul) 29, Singheshwar (dist Madhepura) 23, Supaul (dist Supaul) 22, Barari (dist Katihar) 21, Sonbarsa (dist Saharsa) 19, Raniganj (dist Araria) 18, Nirmali (dist Supaul) 17, Kishanganj (dist Kishanganj) 17, Amaur (dist Purnea) 16, Araria (dist Araria) 16, Salakhua (dist Saharsa) 16, Bahargama (dist Araria) 16, Jokihat (dist Araria) 15, Siki (dist Araria) 15, Barsoi (dist Katihar) 15, Kursela (dist Katihar) 15, Forbesganj (dist Araria) 14, Tribeniganj (dist Supaul) 14, Chorgharia (dist Kishanganj) 14, Marauna (dist Supaul) 14, Rahghpur (dist Supaul) 13, Ghosi (dist Jahanabad) 13, Jalalgarh (dist Purnea) 12, Pirpaiti (dist Bhagalpur) 12, Purnea (dist Purnea) 11, Patarghat (dist Saharsa) 11, Bahadurganj (dist Kishanganj) 11, Asanganj (dist Monghyr) 11, Baltara (dist Khagaria) 11, Dighalbank (dist Kishanganj) 10, Colgaon (dist Bhagalpur) 10, Taibpur (dist Kishanganj) 10, Balrampur (dist Katihar) 10, Narpatganj (dist Araria) 10, Madhipura (dist Madhepura) 10, Madhepur (dist Madhubani) 10, Chhatapur (dist Supaul) 9, Rupouli (dist Purnea) 9, Sabour (dist Bhagalpur) 9, Tedhagach (dist Kishanganj) 9, Sultanganj (dist Bhagalpur) 9, Thakurganj (dist Kishanganj) 9, Kako (dist Jahanabad) 9, Saurbazar (dist Saharsa) 8, Birpur (dist Supaul) 8, Maheshi (dist Saharsa) 8, Bhagalpur (dist Bhagalpur) 8, Katihar North (dist Katihar) 7, Naugachia (dist Bhagalpur) 7, Dhengraghat (dist Purnea) 7, Shambhuganj (dist Banka) 7, Arwal (dist Arwal) 7, Kumarkhand (dist Madhepura) 7, Beldaur (dist Khagaria) 7, Banmankhi (dist Purnea) 7, Chausa (dist Madhepura) 7,
- ✓ **Sub-Himalayan West Bengal & Sikkim:** Gangarampur: 19; Raigunj: 18; Mathabhanga: 12; Bagrakote, Jalpaiguri, Gazoledoba: 11; Champasari, Cooch Behar: 10; Siliguri (P.T.O.), Domohani: 9; Falakata: 8; Darjeeling, Alipurduar (P.T.O.), Sevoke, Nh - 31(Road Bridge), Barobhisha, Hasimara: 7, Damthang: 7;
- ✓ **West Madhya Pradesh:** Khirkiya-arg (dist Harda) 16,
- ✓ **Madhya Maharashtra:** Chas\_agri (dist Ahmednagar) 16, Erandol (dist Jalgaon) 8, Dahigaon - Fmo (dist Jalgaon) 7, Shevgaon (dist Ahmednagar) 7, Jamkhed (dist Ahmednagar) 7,
- ✓ **Marathwada:** Manvat (dist Parbhani) 13, Pathri (dist Parbhani) 11, Ambejogai / Mominabad (dist Beed) 9, Ambad (dist Jalna) 7, Badnapur (dist Jalna) 7,
- ✓ **Gujarat Region:** Narmada\_kv Aws (dist Narmada) 13, Navasari\_aws (dist Navsari) 8, Bayad\_arg (dist Aravalli) 7,
- ✓ **Tamilnadu:** Tiruttani (dist Tiruvallur) 13, Tambaram (dist Chengalpattu) 11, Gingee (dist Villupuram) 10, Kalasapakkam (dist Tiruvannamalai) 9, Keelpennathur (dist Tiruvannamalai), Tindivanam (dist Villupuram), Poondi (dist Tiruvallur), Penucondapuram (dist Krishnagiri), Vadapudupattu (dist Tirupattur), Cheyyar (dist Tiruvannamalai), RSCL-3 Valathy (dist Villupuram) 8 each, Tiruvallur (dist Tiruvallur), Sholayar (dist Coimbatore), Tiruttani PTO (dist Tiruvallur), Kancheepuram (dist Kancheepuram), Thamaraiapakkam (dist Tiruvallur) 7 each,
- ✓ **Andaman & Nicobar Islands:** Mayabunder: 13;
- ✓ **Saurashtra & Kutch:** Chuda (dist Surendranagar) 12, Botad (dist Botad) 7, Gondal (dist Rajkot) 7,
- ✓ **Konkan & Goa:** Roha (dist Raigad) 11, Matheran (dist Raigad) 9, Karjat\_agri (dist Raigad) 8, Shahapur (dist Thane) 7,
- ✓ **Kerala:** Bayar Aws (dist Kasargod) 9, Nooranad Aws (dist Alapuzha) & Perigome AWS (Kannur district) 7,
- ✓ **Rayalaseema:** Cuddapah (dist Ysr District) 9, Vallur (dist Ysr District) 8, Nambulipulikunta (dist Sri Sathyasai District) 8, Kadiri (dist Sri Sathyasai District) 7, Nallamada (dist Sri Sathyasai District) 7,
- ✓ **North Interior Karnataka:** Kurdi (dist Raichur) 9, Sindhanur (dist Raichur) 7,
- ✓ **South Interior Karnataka:** Madhugiri (dist Tumakuru) 9,
- ✓ **Telangana:** Makloor (dist Nizamabad) 8, Shayampet (dist Hanumakonda) 8, Pegadapalle (dist Jagtial) 7
- ✓ **Chhattisgarh:** Sukma (dist Sukma) 8,

- ✓ **Coastal Andhra Pradesh:** Garividi (dist Vizianagaram) 7,
- ✓ **East Rajasthan:** Gogunda Sr (dist Udaipur) 7,
- ✓ **Arunachal Pradesh:** Tuting (dist Upper Siang) 7
- ✓ **Coastal Karnataka:** Mangaluru Ap Obsy (dist Dakshina Kannada) 7,

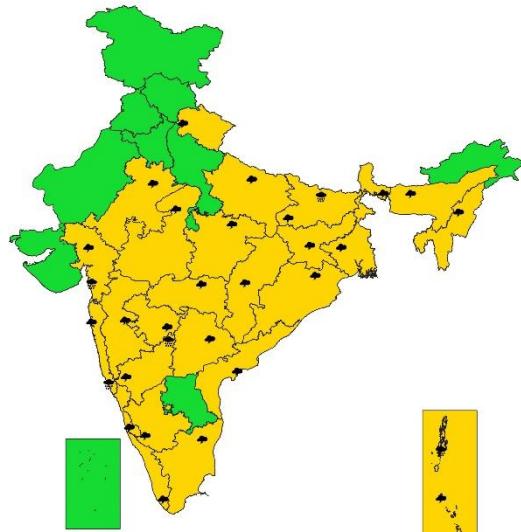
**Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation

## Annexure II





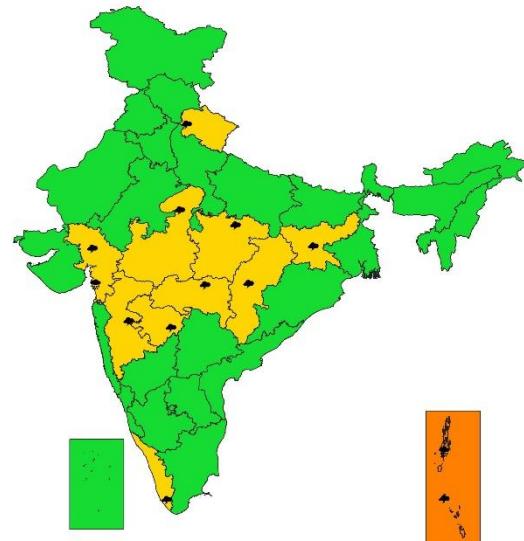
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2  
( 25-9-2023)



Subdivision Warning  
Heavy Rain  
Heavy Snow  
Thunderstorms & Lightning  
Hailstorm  
Dust Storm  
Strong Surface Winds  
Heat Wave  
Cold wave  
Fog  
Subdivision color  
NO WARNING  
WATCH(BE UPDATED)  
ALERT (BE PREPARED)  
WARNING (TAKE ACTION)



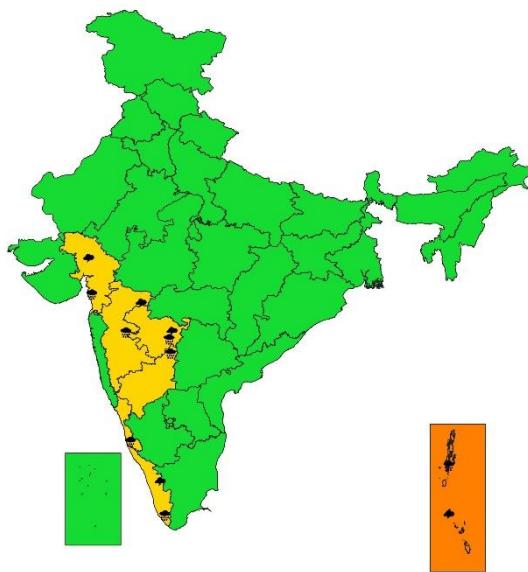
SUBDIVISIONWISE WEATHER WARNING FOR DAY 3  
( 26-9-2023)



Subdivision Warning  
Heavy Rain  
Heavy Snow  
Thunderstorms & Lightning  
Hailstorm  
Dust Storm  
Strong Surface Winds  
Heat Wave  
Cold wave  
Fog  
Subdivision color  
NO WARNING  
WATCH(BE UPDATED)  
ALERT (BE PREPARED)  
WARNING (TAKE ACTION)



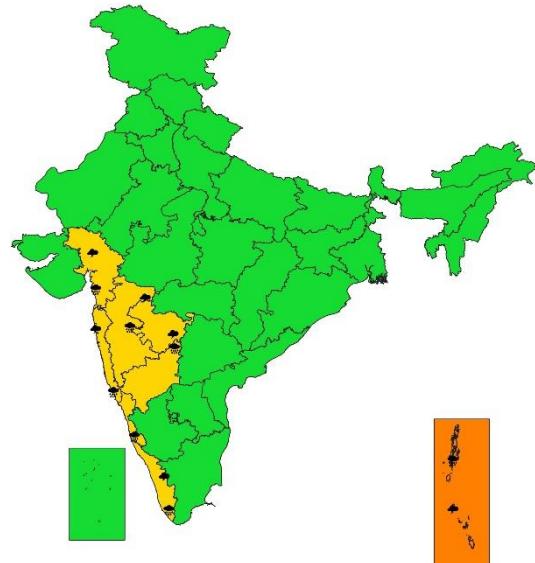
SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
( 27-9-2023)



Subdivision Warning  
Heavy Rain  
Heavy Snow  
Thunderstorms & Lightning  
Hailstorm  
Dust Storm  
Strong Surface Winds  
Heat Wave  
Cold wave  
Fog  
Subdivision color  
NO WARNING  
WATCH(BE UPDATED)  
ALERT (BE PREPARED)  
WARNING (TAKE ACTION)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5  
( 28-9-2023)



Subdivision Warning  
Heavy Rain  
Heavy Snow  
Thunderstorms & Lightning  
Hailstorm  
Dust Storm  
Strong Surface Winds  
Heat Wave  
Cold wave  
Fog  
Subdivision color  
NO WARNING  
WATCH(BE UPDATED)  
ALERT (BE PREPARED)  
WARNING (TAKE ACTION)

**Impact & Action Suggested due to very heavy rainfall/extremely heavy falls** over Bihar on 24<sup>th</sup> & 25<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra and Gujarat region on 24<sup>th</sup>; over Andaman & Nicobar Islands during 26<sup>th</sup> – 28<sup>th</sup> September.

## 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.
- ❖ **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		Flash Flood Risk
Terms		Flash Flood Risk
Probability of Occurrence (%)		
Unlikely	< 25	 High Risk (Take Action)
Likely	25 - 50	 Moderate Risk (Be Prepared)
Very Likely	50 - 75	 Low Risk (Be Updated)
Most Likely	> 75	