



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

**Press Release  
Date: 14<sup>th</sup> September, 2023  
Time of Issue: 1215 hours IST**

**Subject: 1) Well Marked Low Pressure Area over Northwest Bay of Bengal & adjoining North Odisha-West Bengal coasts  
2) Active monsoon conditions over east India on 14<sup>th</sup> & 15<sup>th</sup>; over central India during 14<sup>th</sup> to 17<sup>th</sup> and west India during 15<sup>th</sup> to 18<sup>th</sup> September, 2023.**

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

- ❖ Yesterday's **Low Pressure Area** over Northwest & adjoining Westcentral Bay of Bengal intensified into a Well Marked Low Pressure Area over Northwest Bay of Bengal off North Odisha-West Bengal coasts today's morning and now lies over Northwest Bay of Bengal & adjoining North Odisha-West Bengal coasts. It is likely to move across Odisha and Chhattisgarh during next 2 days.
- ❖ A trough runs from northeast Rajasthan to centre of Well Marked Low Pressure Area over Northwest Bay of Bengal & adjoining North Odisha-West Bengal coasts across northwest Madhya Pradesh, southeast Uttar Pradesh and Jharkhand in lower tropospheric levels.
- ❖ A cyclonic circulation over southeast Uttar Pradesh & adjoining northeast Madhya Pradesh in lower tropospheric levels.
- ❖ The Monsoon Trough lies to the south of its normal position.

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

**East India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Odisha on 14<sup>th</sup>, 15<sup>th</sup> & 18<sup>th</sup>; Jharkhand on 14<sup>th</sup> & 15<sup>th</sup>; over Gangetic West Bengal on 14<sup>th</sup> and over Andaman & Nicobar Islands during 14<sup>th</sup> -18<sup>th</sup> September.

**Isolated extremely heavy rainfall also very likely over Odisha on 14<sup>th</sup> September.**

**Central India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Madhya Pradesh, Vidarbha during 14<sup>th</sup>-17<sup>th</sup> and Chhattisgarh during 14<sup>th</sup>-16<sup>th</sup> September.

**Isolated very heavy rainfall is also very likely over Chhattisgarh, East Madhya Pradesh on 14<sup>th</sup> & 15<sup>th</sup>; West Madhya Pradesh during 15<sup>th</sup>-17<sup>th</sup>; Vidarbha on 15<sup>th</sup> & 16<sup>th</sup> September.**

**Northwest India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm with **isolated heavy falls** very likely over Uttarakhand during 14<sup>th</sup>-16<sup>th</sup>; Jammu division on 14<sup>th</sup>; southwest

Uttar Pradesh on 15<sup>th</sup> and East Rajasthan during 14<sup>th</sup>-17<sup>th</sup> September.

**Isolated very heavy rainfall is also very likely over East Rajasthan on 16<sup>th</sup> September.**

**South India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Telangana on 14<sup>th</sup> & 15<sup>th</sup> and Kerala on 14<sup>th</sup> September.

**Isolated very heavy rainfall also very likely over Telangana on 14<sup>th</sup> September.**

**West India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Konkan & Goa, ghat areas of Madhya Maharashtra during 15<sup>th</sup>-18<sup>th</sup> and Marathwada during 14<sup>th</sup>-17<sup>th</sup> September; Gujarat Region during 16<sup>th</sup>-18<sup>th</sup> and Saurashtra on 17<sup>th</sup> & 18<sup>th</sup> September.

**Isolated very heavy rainfall very likely over** Konkan & Goa, ghat areas of Madhya Maharashtra, Gujarat Region during 16<sup>th</sup>-18<sup>th</sup> and Marathwada on 16<sup>th</sup> September.

**Northeast India:** Light/moderate scattered to fairly widespread rainfall/thunderstorm with isolated **heavy rainfall** activity very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 14<sup>th</sup> September.

For more details kindly refer:

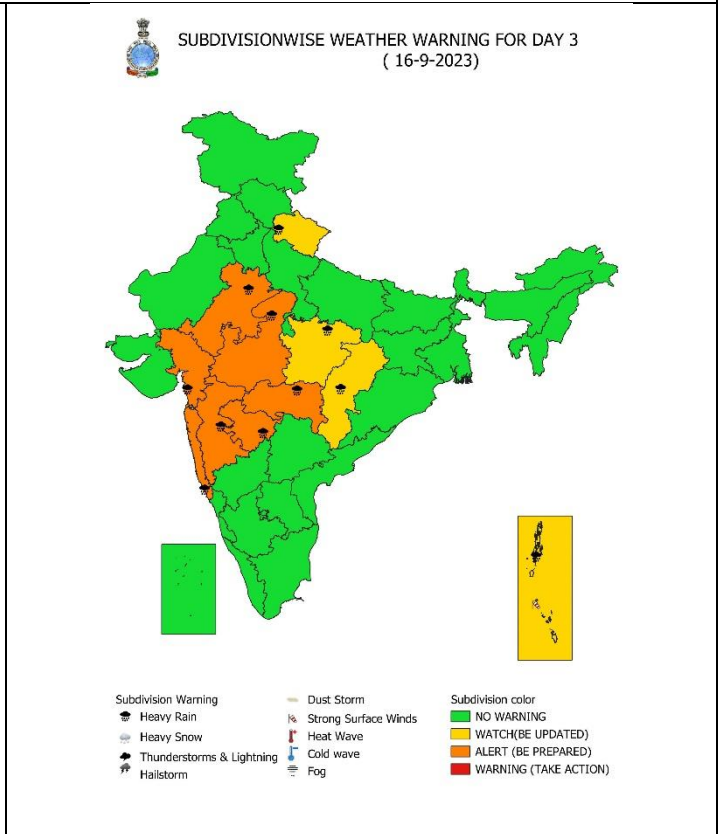
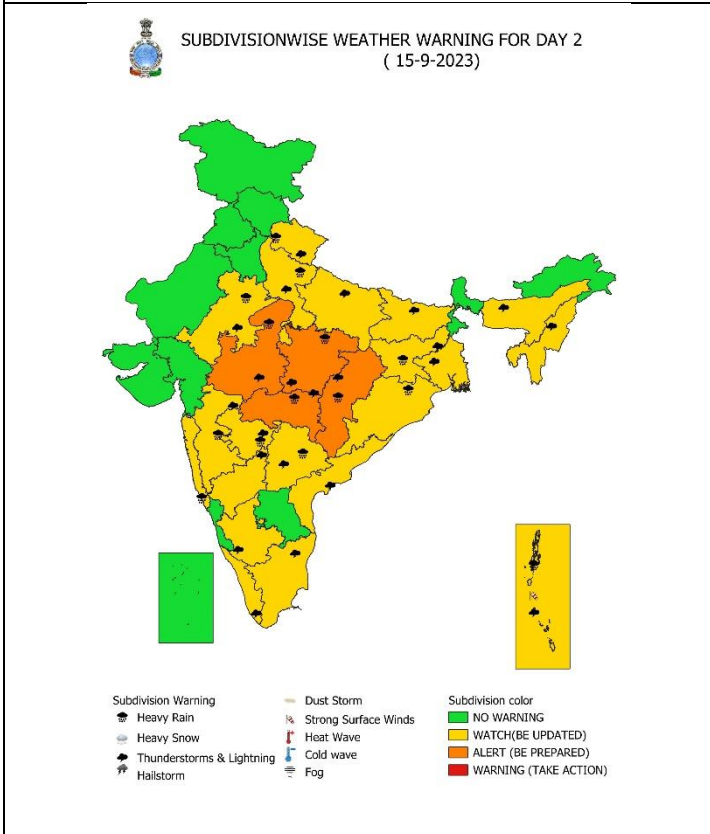
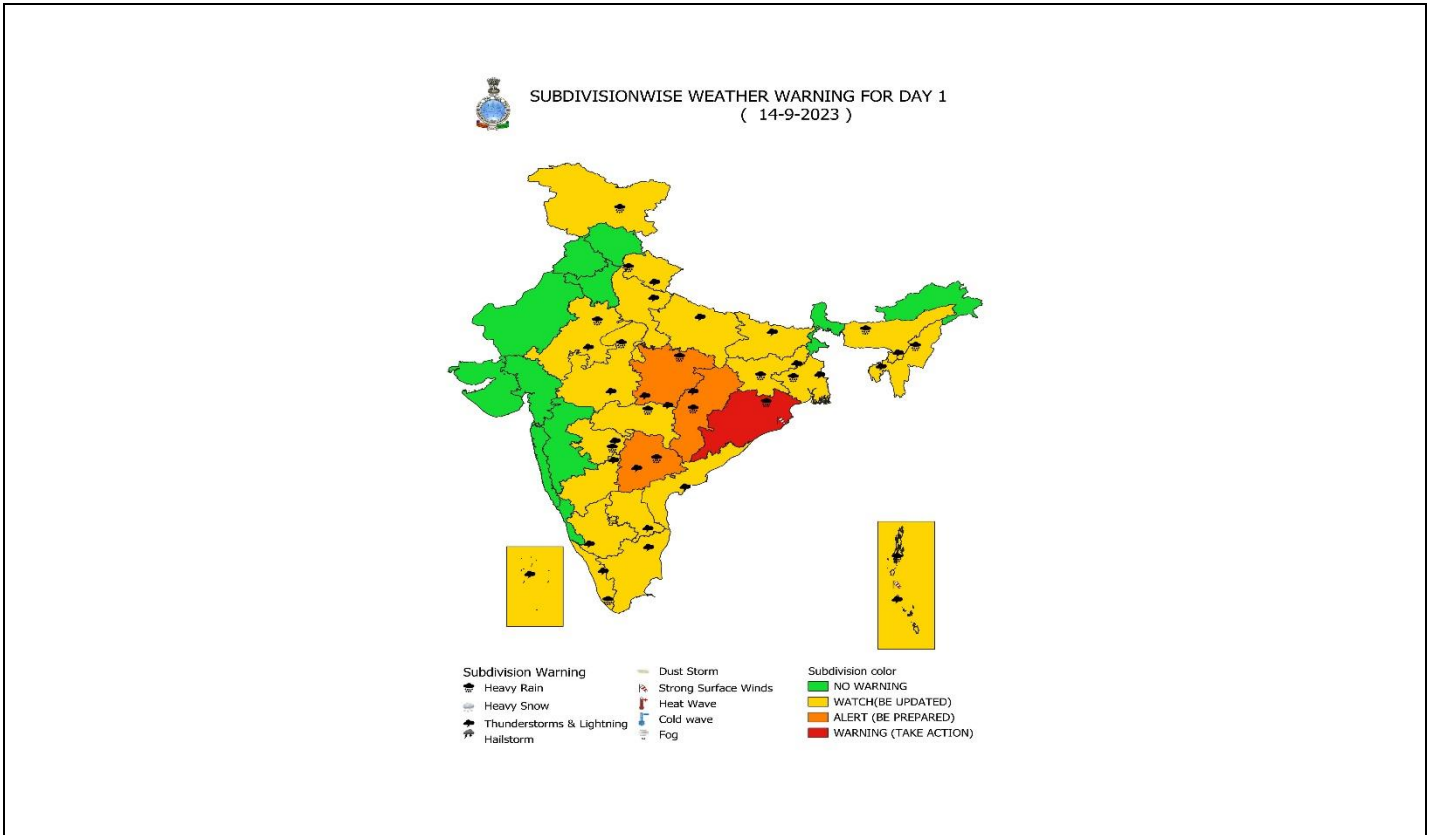
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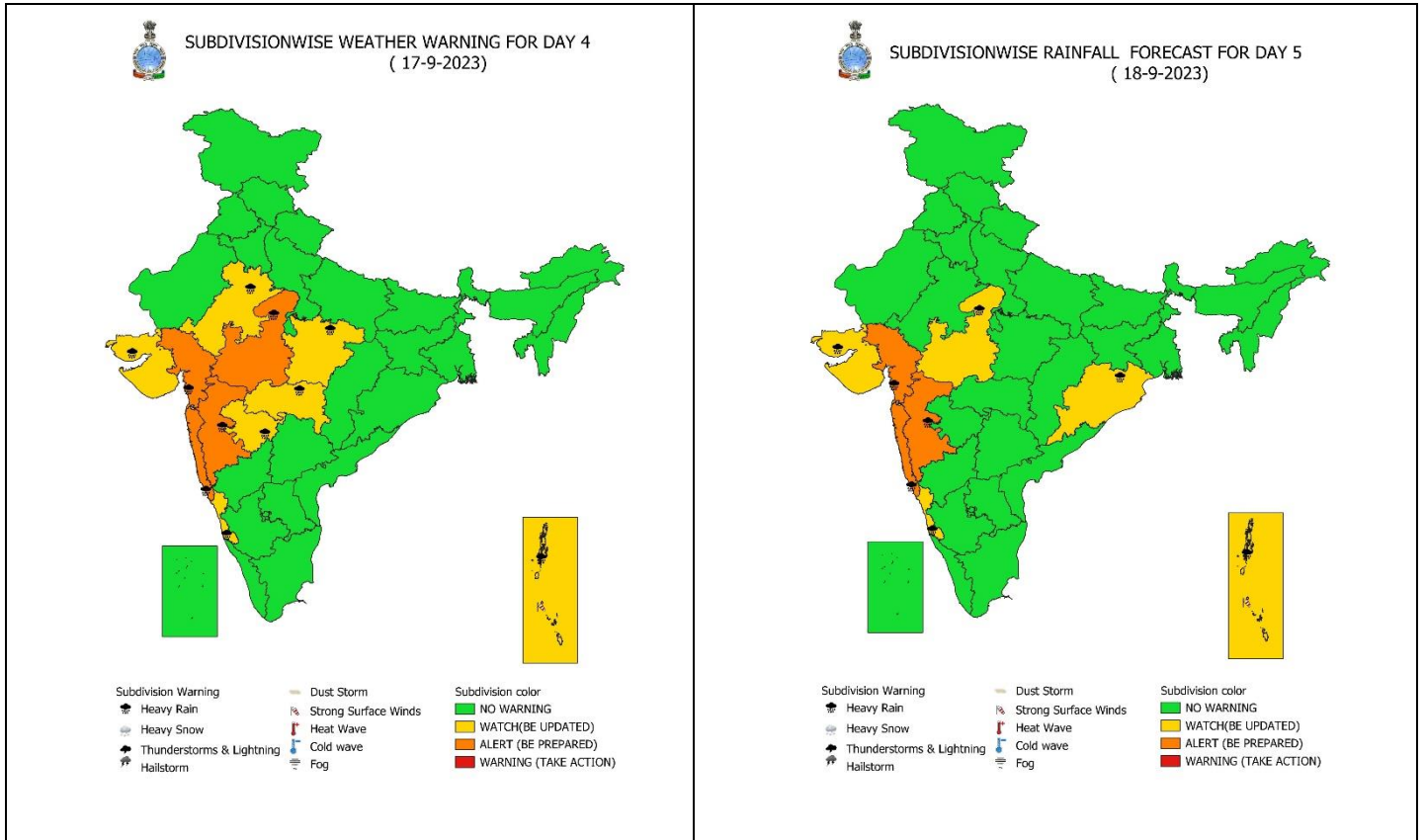
## Annexure I

### Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 14<sup>th</sup> September, 2023):

- **Heavy to very heavy rainfall with extremely heavy falls** at isolated places over Odisha; **Heavy to very heavy rainfall** at isolated places over Telangana, East Madhya Pradesh and **heavy rainfall** at isolated places over Jammu Division, Uttarakhand, Chhattisgarh, Andaman & Nicobar Islands and Vidarbha.
- **Significant rainfall recorded (in cm):**
  - ✓ **Odisha:** Bolangir (dist Bolangir) 21, Ambadola (dist Rayagada) 21, Madanpur Rampur (dist Kalahandi) 19, Alipingal (dist Jagatsinghpur) 18, Jagatsinghpur (dist Jagatsinghpur) 18, Kotagarh (dist Kandhamal) 18, Kantamal (dist Boudhgarh) 16, Th Rampur (dist Kalahandi) 16, Tirtol (dist Jagatsinghpur) 15, Kendrapara (dist Kendrapara) 15, Dabugan (dist Nawarangpur) 14, Kotraguda (dist Rayagada) 13, Kendrapada Pto (dist Kendrapara) 13, Raghunathpur (dist Jagatsinghpur) 13, Danagadi (dist Jajpur) 12, Lanjigarh (dist Kalahandi) 12, Balikuda (dist Jagatsinghpur) 12, Narla (dist Kalahandi) 12, Phiringia (dist Kandhamal) 12, Berhampur (dist Ganjam) 11, Jaipatna (dist Kalahandi) 11, Muniguda (dist Rayagada) 11, Pattamundai (dist Kendrapara) 11, Bhandaripokhari (dist Bhadrak) 11, Korei (dist Jajpur) 11, Akhuapada (dist Bhadrak) 10, Buguda (dist Ganjam) 10, Biridi (dist Jagatsinghpur) 10, Lamataput (dist Koraput) 10, Kalampur (dist Kalahandi) 9, Jhorigam (dist Nawarangpur) 9, Tarva (dist Sonapur) 9, Gudvela (dist Bolangir) 9, Tentulikhunti (dist Nawarangpur) 9, Derabis (dist Kendrapara) 9, Titlagarh (dist Bolangir) 9, Gopalpur (dist Ganjam) 9, Kashipur (dist Rayagada) 9, Naugaon (dist Jagatsinghpur) 9, Salepur (dist Cuttack) 9, Binjharpur (dist Jajpur) 9, Deogaon (dist Bolangir) 9, Belgaon (dist Bolangir) 8, Turekela (dist Bolangir) 8, Chhatrapur (dist Ganjam) 8, Kirmira (dist Jharsuguda) 8, Khaprakhhol (dist Bolangir) 8, Laikera (dist Jharsuguda) 8, Tihidi (dist Bhadrak) 8, Kujanga (dist Jagatsinghpur) 8, Nawarangpur Pto (dist Nawarangpur) 8, Jharsuguda (dist Jharsuguda) 8, Polsara (dist Ganjam) 8, Kantapada (dist Cuttack) 8, Talcher (dist Angul) 8, Papadahandi (dist Nawarangpur) 8, Astaranga (dist Puri) 8, Nandahandi (dist Nawarangpur) 8, Nawapara (dist Nawapara) 8, Gudari (dist Rayagada) 7, Sankheimundi (dist Ganjam) 7, Chandrapur (dist Rayagada) 7, Kodala (dist Ganjam) 7, Marsaghai (dist Kendrapara) 7, Chitrakunda K Guma (dist Malkangiri) 7, Nawana (dist Mayurbhanj) 7, Nayagarh (dist Nayagarh) 7, Bangamunda (dist Bolangir) 7, Ullunda (dist Sonapur) 7, Bhograi (dist Balasore) 7, Krishnaprasad (dist Puri) 7, Purushottampur (dist Ganjam) 7, Bissem-cuttack (dist Rayagada) 7, Belaguntha (dist Ganjam) 7, Kotpad (dist Koraput) 7, Altuma (dist Dhenkanal) 7, K Nuagaon (dist Kandhamal) 7, Koraput (dist Koraput) 7, Bhanjnagar (dist Ganjam) 7, Garadapur (dist Kendrapara) 7, Nawarangpur (dist Nawarangpur) 7, Baliguda (dist Kandhamal) 7,
  - ✓ **East Madhya Pradesh:** Khajuraho Aero (dist Chhatarpur) 13, Mawai (dist Mandla) 12, Orchha (dist Niwari) 9, Niwari (dist Niwari) 7, Amarpur (dist Dindori) 7, Channodi (dist Shahdol) 7, Venkatnagar (dist Anuppur) 7,
  - ✓ **Telangana:** Dahegaon (dist Kumaram Bheem) 13, Vemanapalle (dist Mancherial) 13, Kotapalle (dist Mancherial) 9, Chennur (dist Mancherial) 8, Sirpur (t) (dist Kumaram Bheem) 7, Bheemini (dist Mancherial) 7,
  - ✓ **Chhattisgarh:** Mainpur (dist Gariaband) 11, Bhopalpatnam (dist Bijapur) 11, Labhandih (dist Raipur) 10, Patan (dist Durg) 9, Masturi (dist Bilaspur) 9, Usoor (dist Bijapur) 9, Raipur (dist Raipur) 8, Lormi (dist Mungeli) 8, Abhanpur (dist Raipur) 7, Simga (dist Baloda Bazar) 7, Thankhamariya (dist Bemetara) 7, Ambikapur (dist Surguja) 7, Kurud (dist Dhamtari) 7, Pallari/palari (dist Baloda Bazar) 7,
  - ✓ **Vidarbha:** Sironcha (dist Gadchiroli) 9, Deori (dist Gondia) 8,
  - ✓ **Jammu:** Katra-8, Reasi-7
  - ✓ **Uttarakhand:** BAGESHWAR: Song-7,
  - ✓ **Andaman & Nicobar Islands:** Long Islnds-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 Odisha on 14<sup>th</sup>; Chhattisgarh, East Madhya Pradesh on 14<sup>th</sup> & 15<sup>th</sup>; ghat areas of Madhya Maharashtra, Konkan during 16<sup>th</sup>-18<sup>th</sup>; Marathawada, East Rajasthan on 16<sup>th</sup>; West Madhya Pradesh during 15<sup>th</sup>-17<sup>th</sup>; Vidarbha on 15<sup>th</sup> & 16<sup>th</sup> September.

**Impact expected:**

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

**Action suggested:**

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

**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)