



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release.
Date: 14th October, 2023
Time of Issue: 1330 hours IST

Subject: 1) Wet spell over Northwest India during 14th-17th October, 2023.
2) Isolated heavy rainfall very likely over Tamil Nadu and Kerala during next 4-5 days.

Rainfall recorded during past 24 hours till 0830 hours IST of today, the 14th Oct, 2023 (Annexure I)

Withdrawal of Southwest Monsoon: (Annexure II)

- ❖ 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:

- ❖ The Western Disturbance as a trough in middle tropospheric westerlies now runs roughly along Long. 70°E to the north of Lat. 32°N.
- ❖ An induced cyclonic circulation lies over central Pakistan & neighbourhood in lower tropospheric levels.
- ❖ A cyclonic circulation lies over south Tamil Nadu & neighbourhood in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** is likely to form over southeast & adjoining eastcentral Arabian Sea during next 24 hours. Under its influence, a **Low Pressure Area** is likely to develop over the same region around 17th October. It is likely to move west-northwestwards and intensify further during subsequent 48 hours.

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

South India: Light to moderate rainfall at some/many places accompanied with isolated thunderstorm & lightning likely over Tamil Nadu and accompanied with gusty winds speed reaching 30-40 kmph over Kerala & Mahe during 14th-18th and over Lakshadweep on 14th & 15th October. Isolated **heavy rainfall** with thunderstorm & lightning very likely over Kerala & Mahe and Tamil Nadu during 14th-18th; over Lakshadweep on 14th and over South Interior Karnataka on 16th & 17th October, 2023.

Northwest India: Light to moderate rainfall at some/many places accompanied with isolated thunderstorm & lightning very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad,

Himachal Pradesh, Punjab during 14th-16th; Uttarakhand, Haryana, Uttar Pradesh and Rajasthan on 15th & 16th October, 2023. Isolated **heavy rainfall** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during 14th-16th; over Punjab on 16th October, 2023.

East India: Light to moderate rainfall at many to most places with isolated **heavy rainfall** accompanied with thunderstorm & lightning very likely over Andaman & Nicobar Islands during 16th to 18th October.

West India: Light to moderate rainfall at some to many places accompanied with isolated thunderstorm & lightning very likely over south Konkan & Goa and Madhya Maharashtra during 14th to 16th October. (Refer Special Message: https://mausam.imd.gov.in/Forecast/marquee_data/Special%20message%2014-10-2023.pdf)

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

For more details kindly refer:

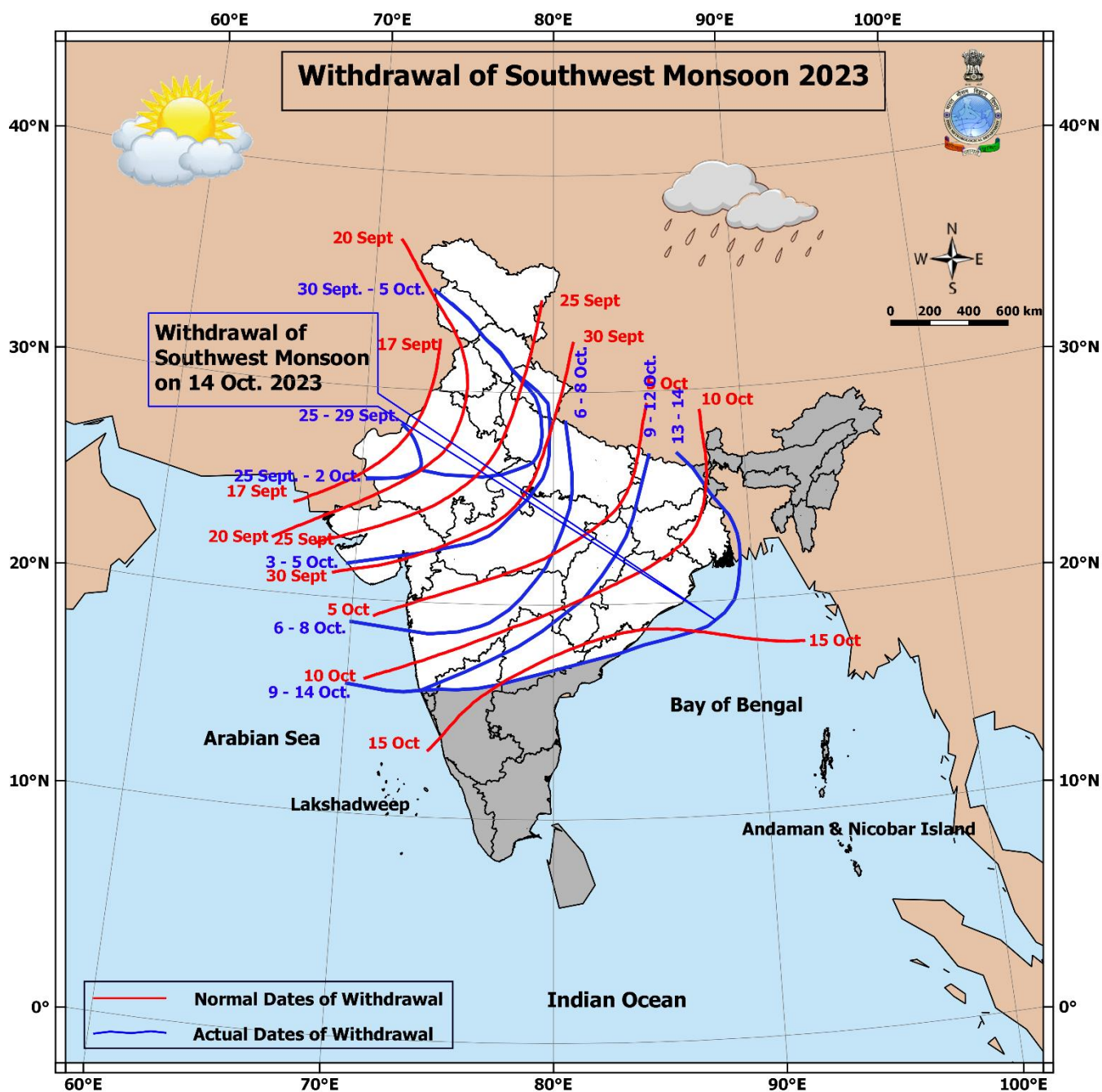
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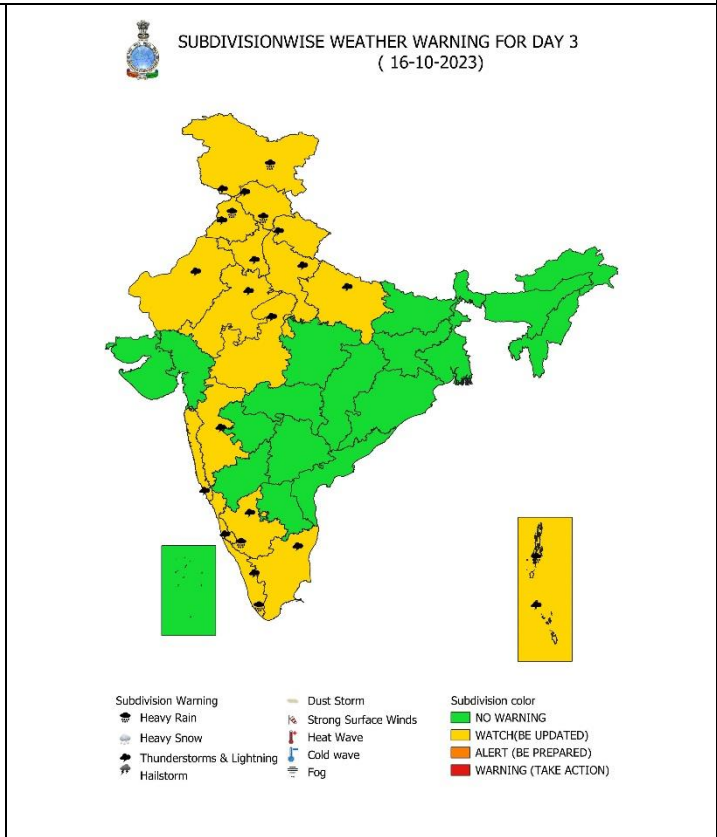
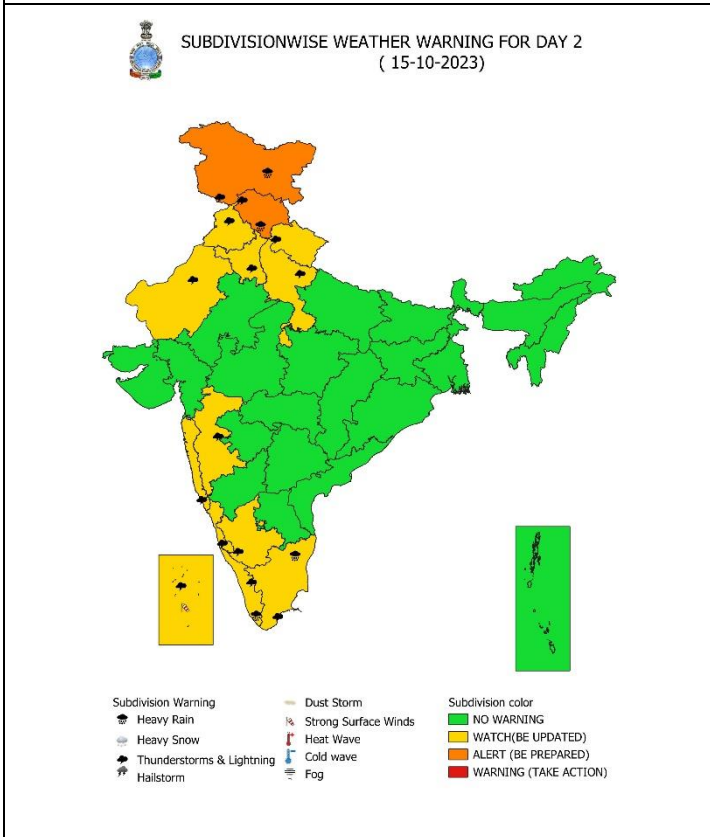
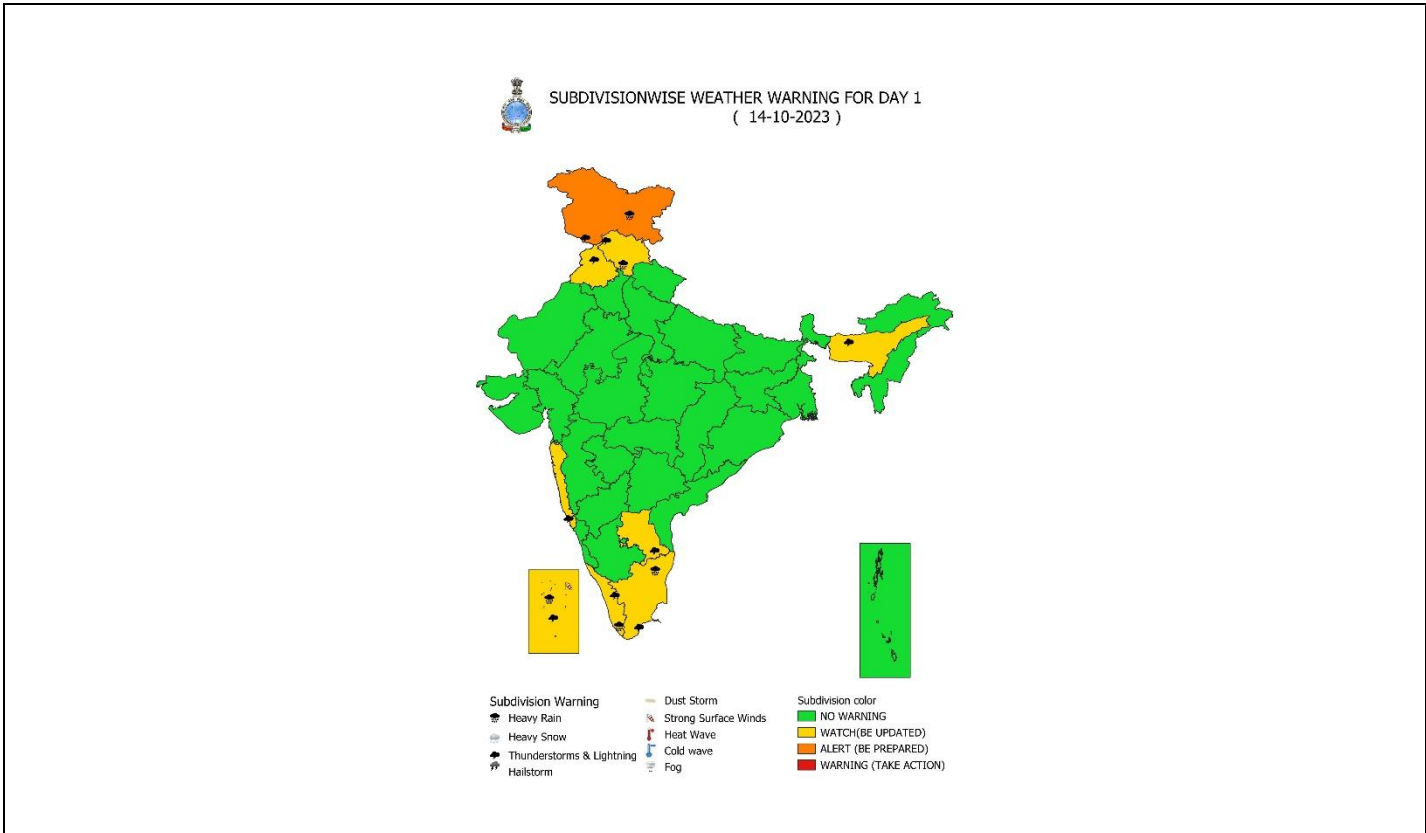
Annexure I

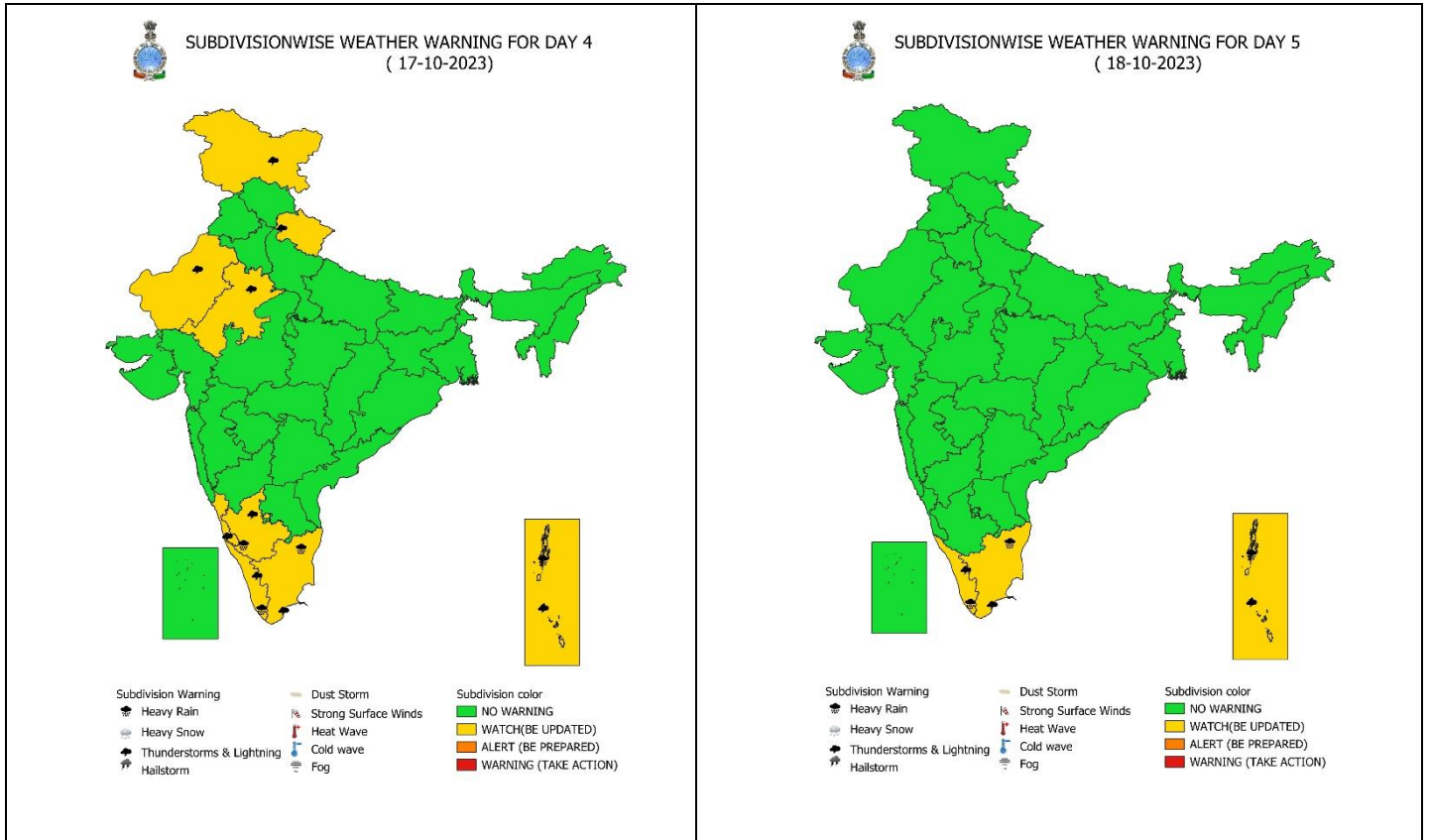
Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 14th October, 2023):

- ❖ **Heavy rainfall** at isolated places over Kerala & Mahe and Tamil Nadu.
- ❖ **Significant rainfall recorded (in cm):**
 - ✓ **Kerala & Mahe:** Ernakulam South (dist Ernakulam) 7, Mavelikara (dist Alapuzha) 7, Kunnathanam Aws (dist Pathanamthitta) 6, Perumpavur (dist Ernakulam) 6, Kochi I.a.f. (dist Ernakulam) 6, Neeleswaram Arg (dist Ernakulam) 5, Kottarakkara Aws (dist Kollam) 5, Thiruvananthapuram (dist Thiruvananthapuram) 5, Chavara Aws (dist Kollam) 5, Irinjalakuda (dist Thrissur) 5, Choondy Aws (dist Ernakulam) 4, Varkala (dist Thiruvananthapuram) 4, Vellayani Aws (dist Thiruvananthapuram) 4, Myladumpara_agri (dist Idukki) 4;
 - ✓ **Tamil Nadu:** Thekkadi (Dist Theni) 10, Kalial (Dist Kanniyakumari) 8, Thirparappu (Dist Kanniyakumari), Pechiparai (Dist Kanniyakumari) 6 each Manamelkudi (Dist Pudukkottai), Thenkasi (Dist Tenkasi), Mimisal (Dist Pudukkottai) 5;
 - ✓ **Saurashtra & Kutch:** Junagadh (dist Junagadh) 5, Kalavad (dist Jamnagar) 4;

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







Impact & Action Suggested due to heavy rainfall/snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 14th & 15th and Himachal Pradesh on 15th October.

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)