



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 01st July, 2023
Time of Issue: 1300 hours IST

Subject: (i) Very heavy rainfall activity likely to continue over Gujarat and Maharashtra today and decrease thereafter.
(ii) A fresh spell of heavy to very heavy rainfall likely to commence over south Peninsular India from 02nd July, 2023.

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

Advance of Southwest Monsoon (Annexure II)

❖ Conditions are favourable for further advance of Southwest Monsoon into remaining parts of the country (i.e., remaining parts of Rajasthan and Haryana and Punjab) during next 2 days.

Significant Weather features, Forecast and Warning during next 5 days: (Annexure III)

❖ A cyclonic circulation lies over northwest Uttar Pradesh & neighbourhood in lower & middle levels and a trough runs from this cyclonic circulation to Northeast Arabian Sea in middle tropospheric levels.
❖ An east-west trough runs from northwest Rajasthan to Manipur at mean sea level.
❖ The off-shore trough at mean sea level runs from Gujarat coast to Kerala coast.
❖ A cyclonic circulation lies over Southeast Bay of Bengal in middle levels.

Weather Forecast and Warning:

Northwest India: Light/moderate scattered to fairly widespread rainfall very likely to continue over the region during next 24 hours. Isolated **Heavy to very Heavy rainfall** very likely over Uttarakhand during 01st-05th July. Isolated heavy rainfall is very likely over East Rajasthan on 01st; East Uttar Pradesh on 01st, 04th & 05th; West Uttar Pradesh on 01st & 05th July.

Central India: Light/moderate fairly widespread to widespread rainfall very likely over the region during next 5 days. **Isolated Heavy rainfall** is very likely over northwest Madhya Pradesh on 01st; Chhattisgarh on 04th & 05th; East Madhya Pradesh and Vidarbha on 05th July.

West India: Light/moderate fairly widespread to widespread rainfall with **isolated Heavy to very Heavy rainfall** is very likely over Konkan & Goa and Ghat areas of Madhya Maharashtra during next 5 days and Gujarat State during next 2 days. Isolated **extremely heavy falls** also likely over Gujarat state today.

East & adjoining Northeast India: Fairly widespread to widespread light/moderate rainfall with isolated **Heavy to Very Heavy falls** very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh during next 5 days. Isolated **heavy rainfall** also likely over Bihar during 01st-03rd; Gangetic West Bengal on 02nd; Jharkhand on 03rd and Odisha during 03rd- 05th July.

South India: Light/moderate scattered to widespread rainfall very likely over Kerala & Mahe, Coastal Karnataka during next 5 days; Andhra Pradesh and South Interior Karnataka during 03rd-05th July. **Isolated heavy rainfall** also likely over Coastal Karnataka, Tamil Nadu, Kerala during next 5 days; South Interior Karnataka, Coastal Andhra Pradesh & Rayalaseema during 03rd-05th July; Telangana on 04th & 05th July. Isolated **very heavy rainfall** also likely over Coastal Karnataka, Kerala and Tamil Nadu during 03rd-05th July.

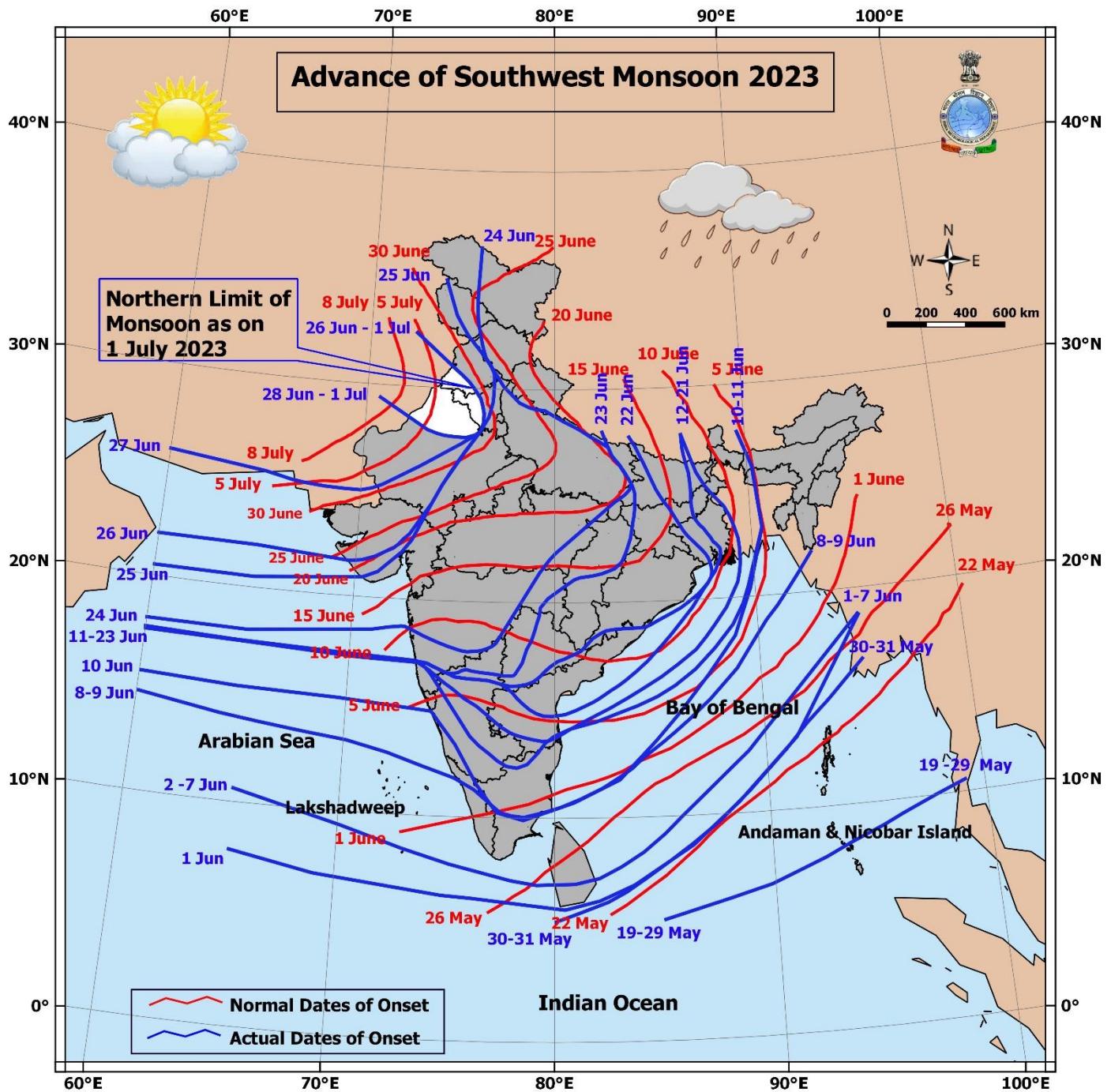
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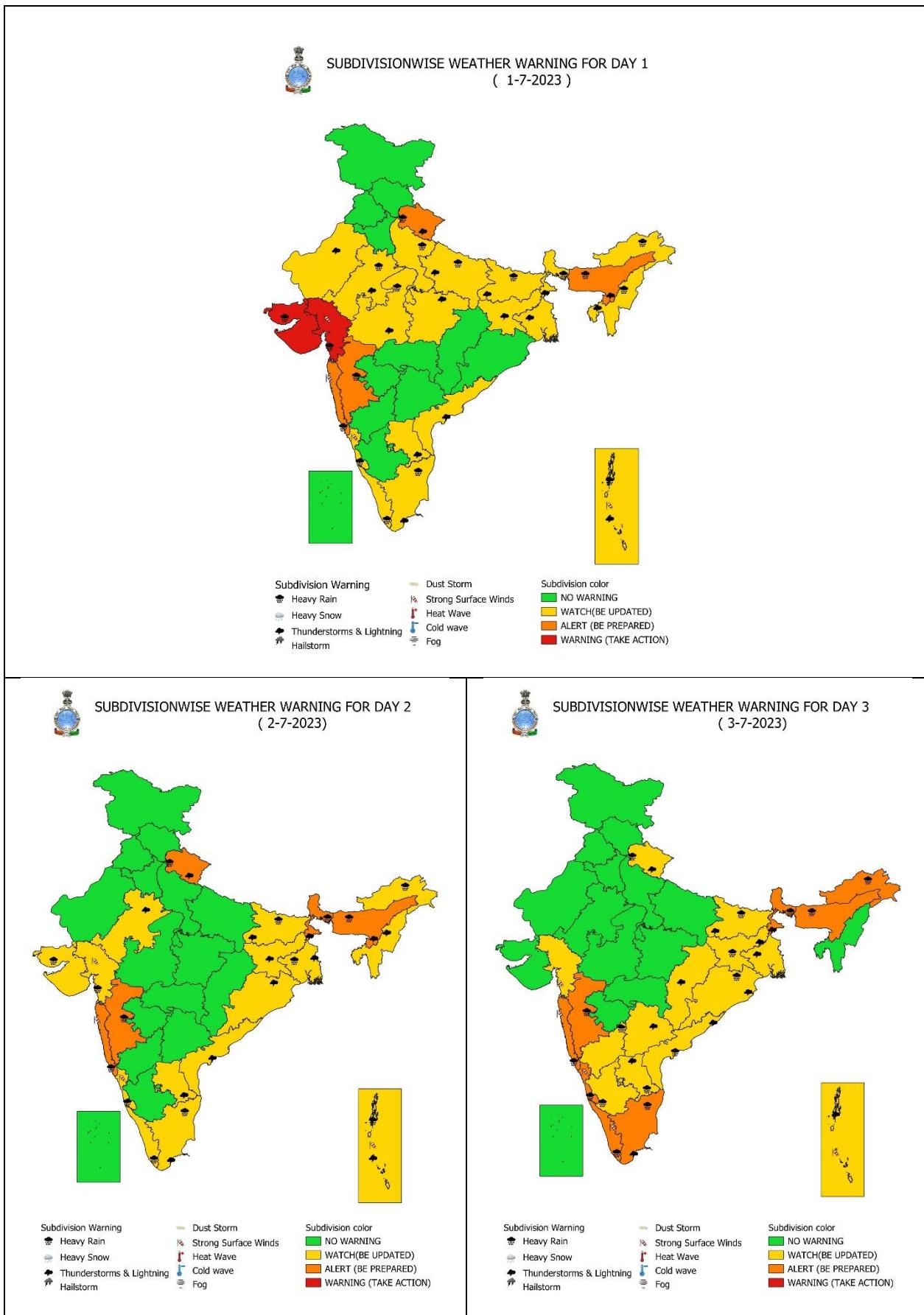
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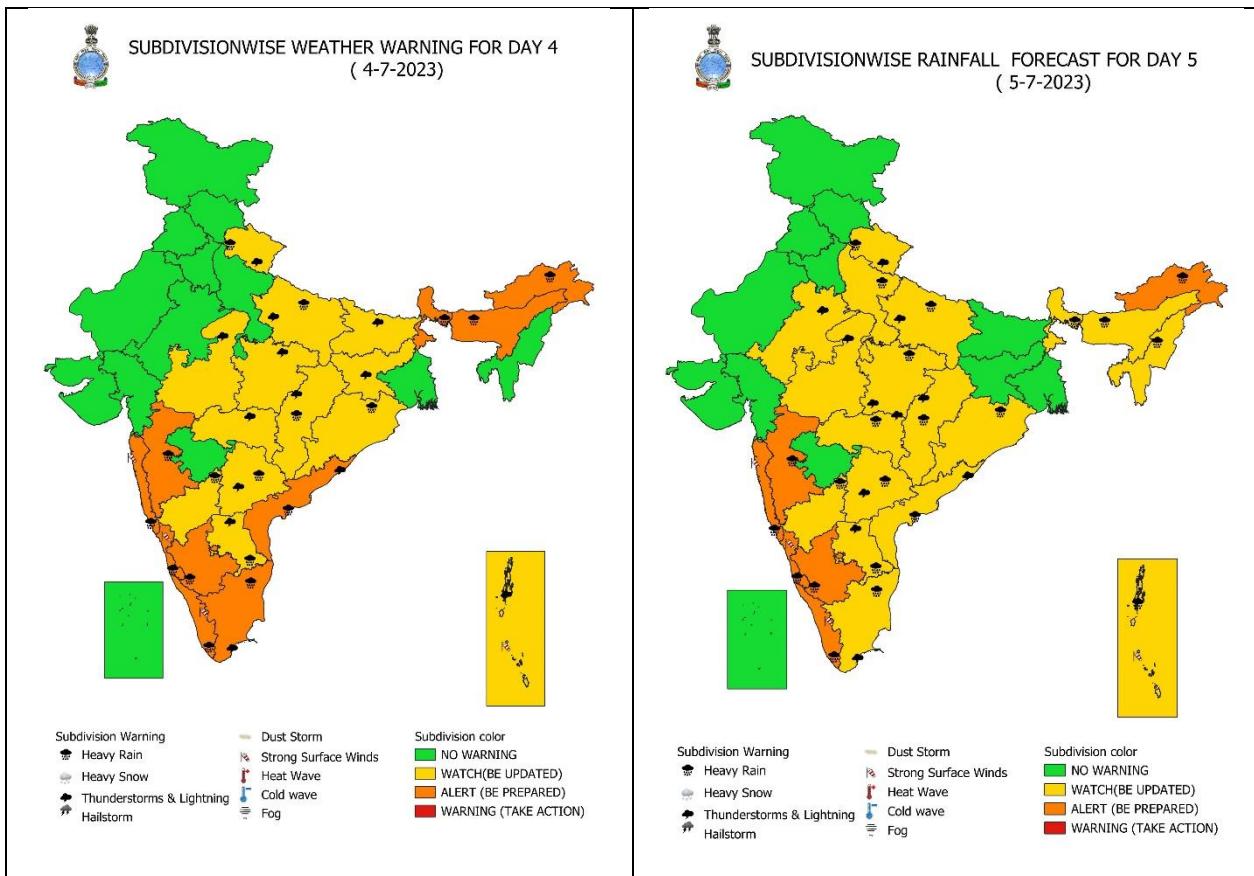
Annexure I

Weather Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- **Rainfall/thundershowers observed:** at most places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalaya West Bengal & Sikkim, Bihar, East Uttar Pradesh, Uttarakhand, Gujarat, Konkan & Goa, Coastal Karnataka; at many places over Assam & Meghalaya, Gangetic West Bengal, West Uttar Pradesh, Himachal Pradesh, Madhya Pradesh, Madhya Maharashtra, Kerala & Mahe; at a few places over Jharkhand, Punjab, West Uttar Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Vidarbha, Interior Karnataka, Lakshadweep and at isolated places over Odisha, Chhattisgarh, Haryana-Chandigarh-Delhi, West Rajasthan, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- **Heavy Rainfall observed:** Heavy to Very heavy with Extremely heavy rainfall at isolated places over Gujarat state, ghat areas of Madhya Maharashtra, Meghalaya; Heavy to Very heavy rainfall at isolated places over Bihar, East Uttar Pradesh, Assam, Konkan & Goa, Haryana, Uttarakhand and Heavy rainfall at isolated places over East Rajasthan, Himachal Pradesh, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Tripura, Andaman & Nicobar Islands and Coastal Karnataka.
- **Significant rainfall recorded (in cm):** **Saurashtra & Kutch:** Visavadar (dist Junagadh) 40, Jamnagar (dist Jamnagar) 27, Anjar (dist Kutch) 24, Bhesan (dist Junagadh) 20, Bagasra (dist Amreli) 20, Jamnagar_kvk Aws (dist Jamnagar) 18, Rajula (dist Amreli) 17, Junagadh (dist Junagadh) 15, Vanthali (dist Junagadh) 14, Jamkandorna (dist Rajkot) 14, Barvala (dist Botad) 13, Amreli_kvk Aws (dist Amreli) 13, Amreli (dist Amreli) 13, Jafrabad_arg (dist Amreli) 12, Jetpur (dist Rajkot) 12, Barvala_arg (dist Botad) 12, Gandhidham (dist Kutch) 12; **Gujarat Region:** Kaprada (dist Valsad) 25, Khergam (dist Navsari) 22, Becharaji (dist Mehsana) 17, Dharampur (dist Valsad) 17, Madhbun (dist Dadara & Nagar Haveli) 17, Chikhli (dist Navsari) 16, Silvassa (dist Dadara & Nagar Haveli) 15, Dangs (ahwa) (dist Dangs) 15, Waghai (dist Dangs) 15, Vansda (dist Navsari) 14, Valsad_Kvk Aws (dist Valsad) 14, Dang_kvk Aws (dist Dangs) 13, Bardoli (dist Surat) 13, Gandevi (dist Navsari) 13, Vyara (dist Tapi) 12, Daman Fmo (dist Daman) 12, Daman (dist Daman) 12, **East Uttar Pradesh:** Chanderdeepghat (Gorakhpur) 25, Bansi CWC (Siddharh Nagar) 22, Kakrahi (Siddharh Nagar) 21, **Assam & Meghalaya:** Cherrapunji (dist East Khasi Hills) 22, Shella (dist East Khasi Hills) 20, Cherrapunji(rkm) (dist East Khasi Hills) 13, Beky Rly.bridge (dist Barpeta) 11, Mawsynram (dist East Khasi Hills) 11, Bhaghmara (dist South Garo Hills) 11, Barpeta (dist Barpeta) 10, **Nagaland, Manipur, Mizoram & Tripura:** Senapati (dist Senapati) 9, Sonamura (dist Sipahijala) 8, Amarpur (dist Gomati) 8, **Konkan & Goa:** Mandangad (dist Ratnagiri) 19, Matheran (dist Raigad) 19, Pen (dist Raigad) 15, Khalapur (dist Raigad) 14, Karjat_agri (dist Raigad) 13, Mormugao - Pmo Imd (dist South Goa) 12, Shahapur (dist Thane) 12, Rajapur (dist Ratnagiri) 12, Murbad (dist Thane) 12, **Madhya Maharashtra:** Lonavala_agri (dist Pune) 15, Ozharkheda - Fmo (dist Nashik) 14, Harsul - Fmo (dist Nashik) 11, Peth (dist Nashik) 10, Mahabaleshwar- Imd Obsy (dist Satara) 9, **Bihar:** Forbesganj, Balrapur-11 each, Muzaffarpur-10, Lakhisarai, Begusarai-8 each; **West Madhya Pradesh:** Jawad (dist Neemuch) 9, Vijaypur (adp) (dist Sheopur) 7, **Sub-Himalaya West Bengal & Sikkim:** Malda -10; NH 31, Mathabhanga -7; Falakata-6; **East Rajasthan:** Niwai (dist Tonk) 11, Jamwaramgarh Sr (dist Jaipur) 10, Mounntabu Tehsil Sr (dist Sirohi) 7, Khandar Sr (dist Sawai Madhopur) 7, Sapau Sr (dist Dholpur) 7, Bamanwas Sr (dist Sawai Madhopur) 7, Bijoliya Sr (dist Bhilwara) 7, **Uttarakhand:** Banbasa-17, Khatima-11, Khatima-9, Sama, Lansdown -7 each; **Andaman & Nicobar Islands:** Port Blair 8; **Himachal Pradesh:** Rajgarh (dist Sirmaur) 7, Renuka / Dadhau (dist Sirmaur) 7, **Coastal Karnataka:** Karwar Obsy (dist Uttara Kannada) 7.







Agromet advisories for rainfall, thunderstorms likely over various parts of the country:

- Drain out excess water from crop fields to avoid water stagnation in Uttarakhand, Uttar Pradesh, East Rajasthan, Andaman & Nicobar Islands, West Bengal, Sikkim, Bihar, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra (Ghat regions), Gujarat, Tamilnadu, Kerala, Coastal Karnataka and North Eastern States.
- Postpone sowing of kharif crops and all types of fertilizer and chemical applications in Gujarat.
- Provide staking to vegetables.

Impact & Action Suggested due to extremely heavy/very heavy rainfall over Gujarat state on 01st; Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Uttarakhand, Konkan & Goa, Madhya Maharashtra during 01st-05th July; Arunachal Pradesh during 03rd-05th July.

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
- 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.
- ❖ **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 Widespred (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