



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

**Press Release**  
**Date: 28<sup>th</sup> June, 2023**  
**Time of Issue: 1330 hours IST**

**Subject: i) Active monsoon conditions likely to continue over Northwest, Central & West India during next 3 days.**  
**ii) Southwest monsoon is likely to advance into remaining parts of the country during next 2-3 days.**

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

**Advance of Southwest Monsoon (Annexure II)**

- ❖ The Southwest Monsoon has further advanced into remaining parts of north Arabian Sea and some more parts of Rajasthan today, the 28th June.
- ❖ The Northern Limit of Monsoon (NLM) now passes through Lat. 29.4°N/ Long. 70.7°E, Bikaner, Narnaul, Firozpur and Lat. 32.5°N/ Long. 72.5°E.
- ❖ 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 2-3 days.

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

- ❖ The **Low Pressure Area** now lies over northeast Madhya Pradesh & neighbourhood. It is very likely to move west-northwestwards towards northwest Madhya Pradesh during next 2 days.
- ❖ An east-west trough runs from northwest Rajasthan to Northeast Bay of Bengal across the centre of Low Pressure Area in lower tropospheric levels.
- ❖ The off-shore trough at mean sea level runs from Maharashtra coast to Kerala coast.
- ❖ A cyclonic circulation lies over south Gujarat coast & neighbourhood in middle tropospheric levels.

**Weather Forecast and Warning due to strengthening of the Southwest Monsoon Flow over the Indian subcontinent:**

**Northwest India:**

- ❖ Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Uttar Pradesh, Rajasthan, Himachal Pradesh, Uttarakhand, Haryana during next 3 days. Isolated **Heavy to Very Heavy rainfall** very likely over Himachal Pradesh on 28<sup>th</sup>; East Rajasthan during 28<sup>th</sup> & 30<sup>th</sup> June and Uttarakhand on 28<sup>th</sup> & 29<sup>th</sup> June.

### Central India:

- ❖ Light/moderate fairly widespread to widespread rainfall with isolated **heavy falls** with thunderstorm & lightning over Madhya Pradesh during next 3 days and over Chhattisgarh & Vidarbha during next 24 hours. Isolated **very heavy rainfall** very likely over West Madhya Pradesh during 28<sup>th</sup>-30<sup>th</sup> and East Madhya Pradesh on 28<sup>th</sup> June.

### West India:

- ❖ Light/moderate fairly widespread to widespread rainfall with isolated **Heavy to very Heavy rainfall** is very likely over Konkan & Goa, Gujarat State and Ghat areas of Madhya Maharashtra during next 5 days. Isolated **extremely heavy rainfall** also very likely over Konkan and Gujarat region on 28<sup>th</sup> June.

### 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 Jharkhand, Odisha, Gangetic West Bengal on 28<sup>th</sup> and Bihar during 28<sup>th</sup>-30<sup>th</sup> June.

### South India:

- ❖ Light/moderate scattered to fairly widespread rainfall very likely over Kerala & Mahe, Coastal & South Interior Karnataka during next 5 days. **Isolated heavy rainfall** also likely over Coastal Karnataka during next 5 days; Kerala on 28<sup>th</sup>, 29<sup>th</sup> June & 02<sup>nd</sup> July, South Interior Karnataka on 28<sup>th</sup> June & 02<sup>nd</sup> July. Isolated **very heavy rainfall** also likely over Coastal Karnataka on 28<sup>th</sup> June.

For more details kindly refer:

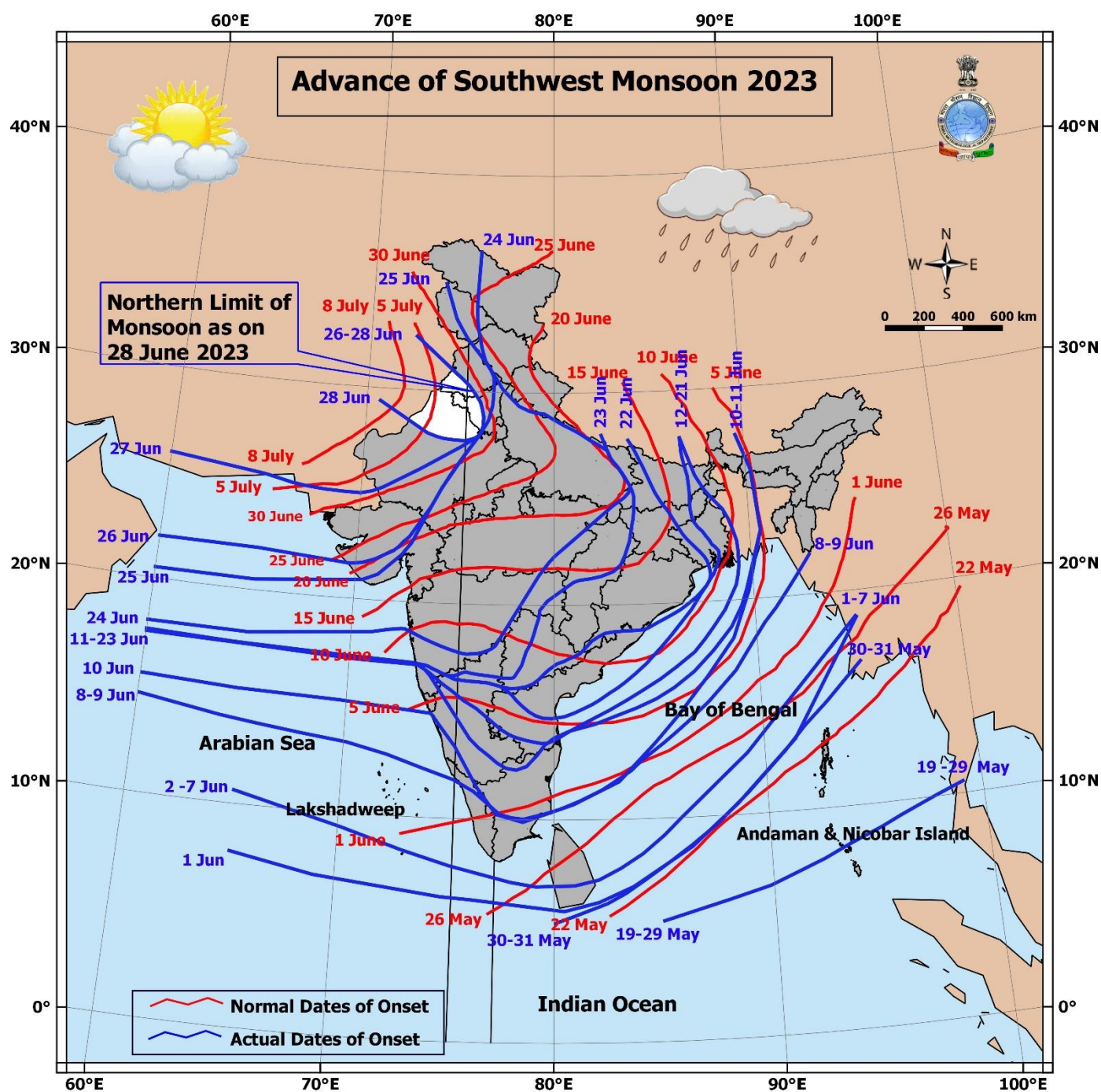
[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

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

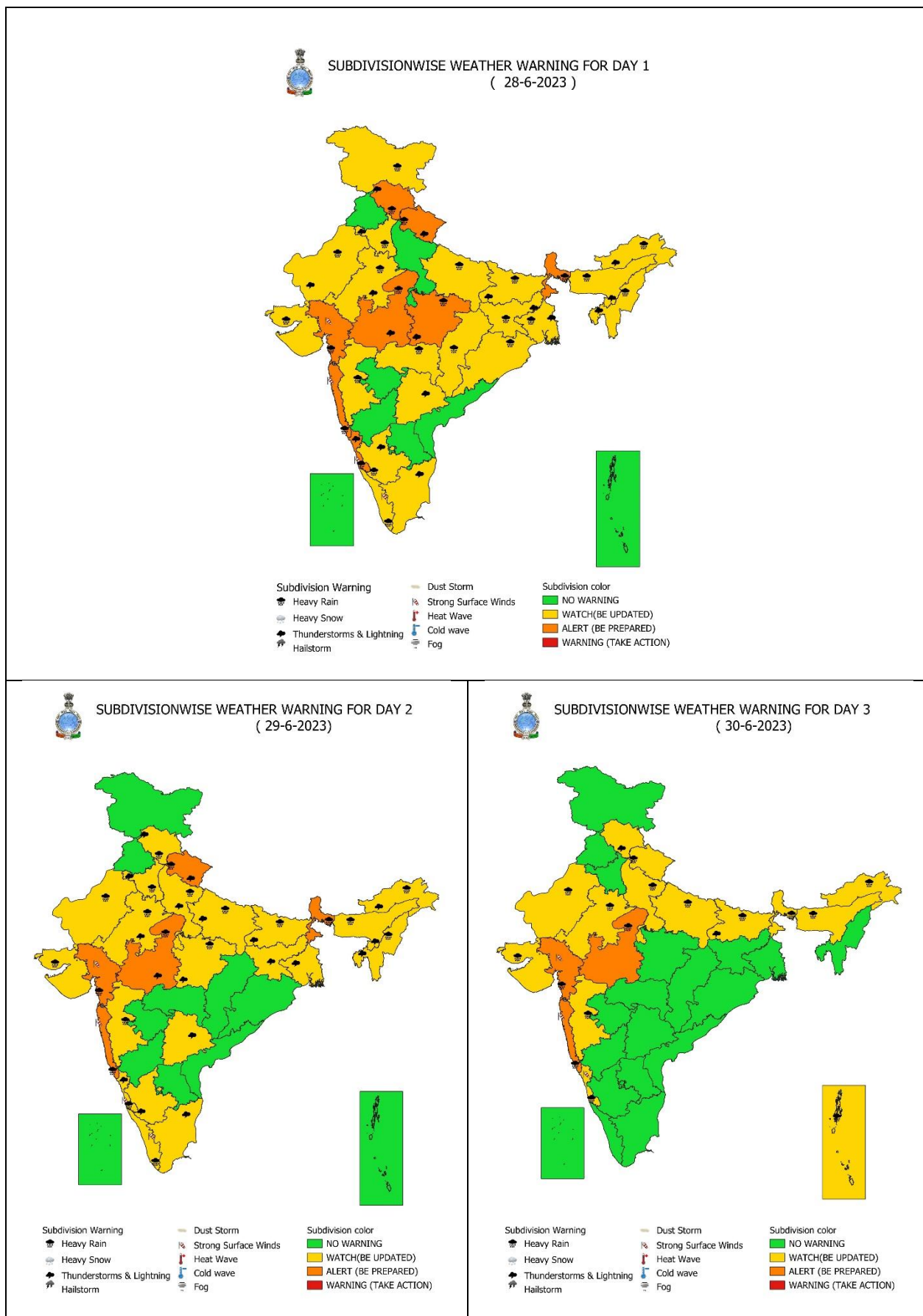
❖ **Rainfall/thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalaya West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Coastal Karnataka, Kerala & Mahe, Lakshadweep; **at many places** over Andaman & Nicobar Islands, Odisha, Bihar, Uttarakhand, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, Gujarat state, Telangana, South Interior Karnataka; **at a few places** over West Uttar Pradesh, Rajasthan, North Interior Karnataka.

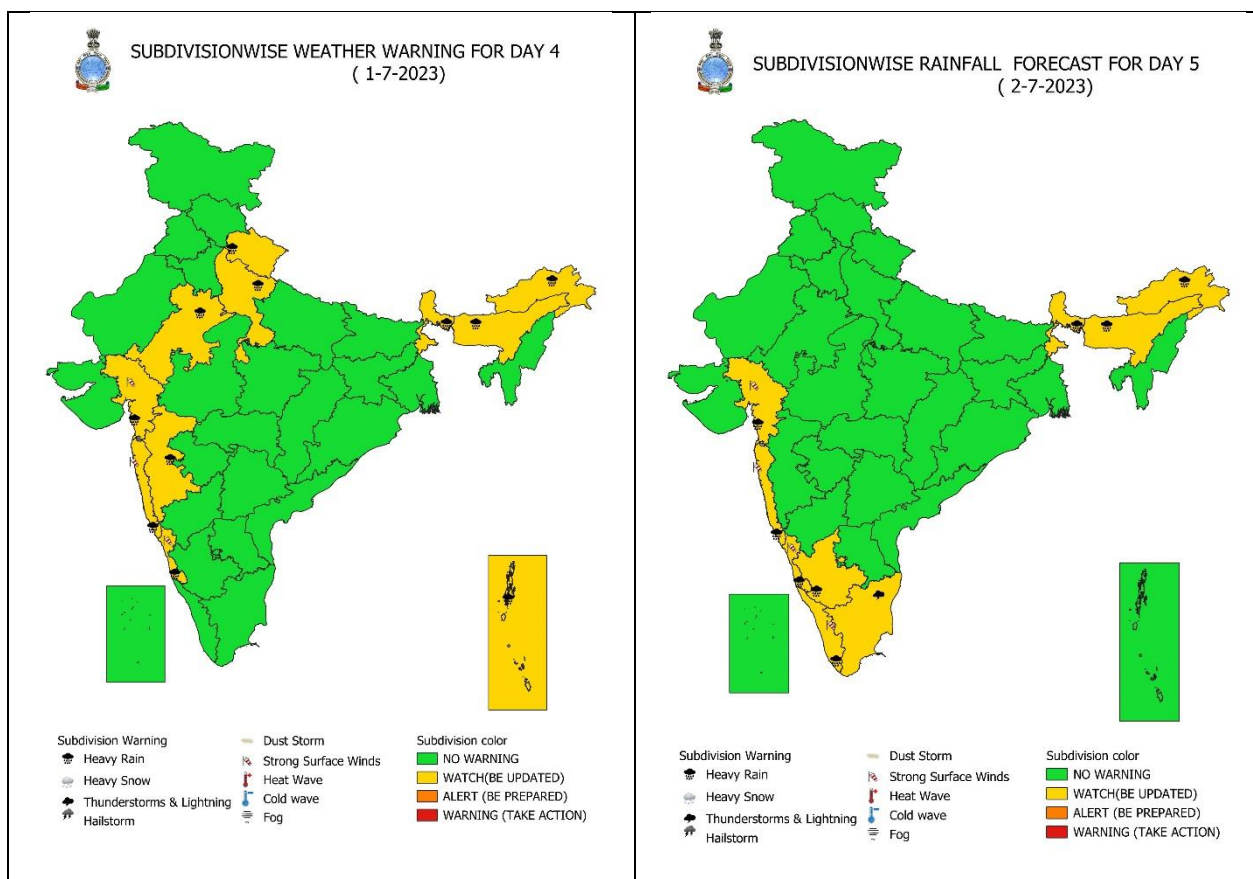
❖ **Heavy Rainfall observed: Extremely heavy rainfall** at isolated places over East Madhya Pradesh, Gangetic West Bengal; **Heavy to Very heavy rainfall** at isolated places over Konkan & Goa, Coastal Karnataka, Chhattisgarh, Vidarbha, Kerala & Mahe, Gujarat Region; **Heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Coastal Andhra Pradesh, Rajasthan, West Uttar Pradesh, Uttarakhand, Rajasthan, Sub-Himalaya West Bengal & Sikkim, Odisha and Jharkhand.

❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **East Madhya Pradesh:** Kareli (dist Narsinghpur) **25**, Narsinghpur-aws (dist Narsinghpur) 22, Malanjhand (dist Balaghat) 14, Deori (dist Sagar) 14, Mandla (dist Mandla) 14, Birsia (dist Balaghat) 13, Lakhnadon (dist Seoni) 11, Mawai (dist Mandla) 11, Panagar (dist Jabalpur) 11, Mohgaon (dist Mandla) 10, Narayananj (dist Mandla) 10; **Konkan & Goa:** Panjim - Imd Obsy (dist North Goa) **20**, Dabolim N.a.s.- Navy (dist South Goa) 19, Mapusa (dist North Goa) 18, Mormugao - Pmo Imd (dist South Goa) 18, Wada (dist Palghar) 14, Palghar\_agri (dist Palghar) 13, Margao (dist South Goa) 12, Canacona (dist South Goa) 12, Devgad (dist Sindhudurg) 11, Quepem (dist South Goa) 11, Mulde\_ Agri (dist Sindhudurg) 11, Kudal (dist Sindhudurg) 11, Valpoi (dist North Goa) 11, Vaibhavwadi (dist Sindhudurg) 10, Malvan (dist Sindhudurg) 10, Jawhar (dist Palghar) 10, Pen (dist Raigad) 9, Mangaon (dist Raigad) 9, Rameshwar\_agri (dist Sindhudurg) 9, Ponda (dist North Goa) 9, Sanguem (dist South Goa) 9, Pernem (dist North Goa) 9, Mokheda - Fmo (dist Palghar) 9, Murbad (dist Thane) 8, Sawantwadi (dist Sindhudurg) 8, Bhiwandi (dist Thane) 8, Shahapur (dist Thane) 7, Tbia Imd Part Time (dist Thane) 7, Talasari (dist Palghar) 7, Ulhasnagar (dist Thane) 7, Lanja (dist Ratnagiri) 7, Ratnagiri - Imd Obsy (dist Ratnagiri) 7, Tala (dist Raigad) 7, **Coastal Karnataka: Mulki (dist Dakshina Kannada) 19**, Karwar Obsy (dist Uttara Kannada) 16, Panambur Obsy (dist Dakshina Kannada) 15, Mangaluru Ap Obsy (dist Dakshina Kannada) 14, Manki (dist Uttara Kannada) 12, Gokarna (dist Uttara Kannada) 11, Kundapur (dist Udupi) 10; **Chhattisgarh: Dondilohara (dist Balod) 19**, Mohla (dist Rajnandgaon) 13, Patharia (dist Mungeli) 11, Dongargarh (dist Rajnandgaon) 11, Ambargarh Chowki (dist Rajnandgaon) 10, Chhuria (dist Rajnandgaon) 10, Doundi (dist Balod) 9, Gundardehi (dist Balod) 9, Gurur (dist Balod) 8, Manpur (dist Rajnandgaon) 8, Mungeli (dist Mungeli) 7; **Vidarbha: Korchi (dist Gadchiroli) 16**, Kurkheda (dist Gadchiroli) 10, Deori (dist Gondia) 10, Desaiganj (dist Gadchiroli) 8, Salekasa (dist Gondia) 8, **Kerala & Mahe: Bayar AWS (Kasargod district) 17**, North Paravur AWS (Ernakulam district) 16, Kannur Airport AWS & Mattannur ARG (Kannur district) 15 each, Kannur, Ponnani (Malappuram district) & Taliparamba (Kannur district) 14 each, Kudulu (Kasaragod district) 11, Thrithala (Palakkad district) 10, Hosdurg (Kasaragod district) 9, Varkala (Thiruvananthapuram district) & Thavanur AWS (Malappuram district) 8 each; **Gujarat Region: Bardoli (dist Surat) 15**, Mahuva (dist Surat) 14, Valod (dist Tapi) 14, Madhbun (dist Dadara & Nagar Haveli) 13, Navsari (dist Navsari) 13, Daman\_arg (dist Daman) 13, Surat\_kvks Aws (dist Surat) 12, Khanvel (dist Dadara & Nagar Haveli) 11, Palsana (dist Surat) 11, Valsad (dist Valsad) 11, Gandevi (dist Navsari) 11, Silvassa (dist Dadara & Nagar Haveli) 11; **Madhya Maharashtra:** Ozharheda - Fmo (dist Nashik) **10**, Gaganbawada (dist Kolhapur) 9, Mahabaleshwar- Imd Obsy (dist Satara) 8, Dhule (dist Dhule) 7; **Assam & Meghalaya:** Cherrapunji(rkm) (dist East Khasi Hills) 10, Mawkyrwat\_arg (dist South West Khasi Hills) 9, Mawkyrwat (dist South West Khasi Hills) 9, Cherrapunji (dist East Khasi Hills) 9, Khliehriat (dist East Jaintia Hills) 7, D/mohanbari Aero (dist Dibrugarh) 7, Jiagaon (dist Tinsukia) 7, Mohanbari\_aws (dist Dibrugarh) 7, **Coastal Andhra Pradesh:** Amalapuram (dist B R Ambedkar Konaseema) **9**; **Odisha:** Bijepur (dist Bargarh) **8**, Barpalli (dist Bargarh) 7, Atabira (dist Bargarh) 7; **Rajasthan:** Banswara Sr (dist Banswara) **10**, Jayal Sr (dist Nagaur) 9, Nasirabad (dist Ajmer) 8, Kekri Sr (dist Ajmer) 7, Mandrayal Sr (dist Karauli) 7; **West Uttar Pradesh:** Saharanpur(dist. Saharanpur) **8**; **Jharkhand:** Messenjor-8; Pakuria-6; **Arunachal Pradesh:** Miao (dist Changlang) 9, Pasighat\_ Aero (dist East Siang) 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 Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, Rajasthan, West Bengal, Sikkim, Odisha, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Gujarat, Kerala, Coastal and South Interior Karnataka and North Eastern States.
- Provide staking to vegetables.

**Impact & Action Suggested due to extremely heavy/very heavy rainfall** over West Madhya Pradesh during 28<sup>th</sup>-30<sup>th</sup>; East Madhya Pradesh on 28<sup>th</sup>; Sub-Himalaya West Bengal & Sikkim, Assam & Meghalaya during 28<sup>th</sup> June-02<sup>nd</sup> July; Uttarakhand on 28<sup>th</sup> & 29<sup>th</sup>; Himachal Pradesh on 28<sup>th</sup>; Konkan & Goa, Madhya Maharashtra and Gujarat Region during 28<sup>th</sup> to 30<sup>th</sup>; Arunachal Pradesh on 30<sup>th</sup> June-02<sup>nd</sup> 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 kutchha 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 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