



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

Press Release

Date: 25th July, 2023

Time of Issue: 1345 hours IST

**Subject: (i) Isolated very heavy to extremely heavy rainfall activity likely to continue over west coast till 26th July and over Telangana & Andhra Pradesh during 25th-27th July.
(ii) Fresh spell of Isolated heavy to very heavy rainfall likely over east central India during 26th-27th July.
(iii) Isolated heavy to very heavy rainfall likely over Uttarakhand, Himachal Pradesh, north Haryana and West Uttar Pradesh during 25th-27th July and over East India during 28th-30th July.**

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

Significant Weather features:

- ❖ The **Well Marked Low Pressure Area** over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts persists and the associated cyclonic circulation extends upto middle tropospheric levels and tilting southwest wards with height. It is likely to concentrate into a Depression over the same region during next 24 hours. Subsequently, it is likely to move slowly northwestwards across north Andhra Pradesh-south Odisha coasts. The Western end of the monsoon trough, is very likely to shift further northwards, gradually during next 2-3 days.
- ❖ The Monsoon Trough at mean sea level passes through Jaisalmer, Kota, Guna, Raipur, Bhawanipatna, centre of the Well Marked Low Pressure Area over Westcentral & adjoining Northwest Bay of Bengal and thence east-southeastwards to Eastcentral Bay of Bengal in lower tropospheric levels.
- ❖ A cyclonic circulation lies over northwest Madhya Pradesh & adjoining east Rajasthan and in lower tropospheric levels.
- ❖ A cyclonic circulation lies over south Pakistan & neighbourhood in lower tropospheric levels.
- ❖ The shear zone now runs roughly along Lat. 17° N in middle tropospheric levels.
- ❖ An off-shore trough at mean sea level runs from south Konkan coast to north Kerala coast.
- ❖ A fresh Western Disturbance is seen as a trough in middle tropospheric westerlies roughly along Long. 67°E to the north of 30°N.

Weather Forecast and Warning (Annexure II):

Northwest India: Light/Moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** is very likely over Uttarakhand, Punjab, Haryana and West Uttar Pradesh during 25th-29th; over Himachal Pradesh during 25th-28th; over East Uttar Pradesh on 25th, 28th & 29th; over East Rajasthan during 25th-27th; over West Rajasthan on 25th & 26th and Jammu and Kashmir on 26th & 27th July, 2023.

Isolated very heavy rainfall also likely over Himachal Pradesh on 26th & 27th; over Uttarakhand on 25th, 26th & 28th; over Haryana on 26th; over West Uttar Pradesh on 25th & 26th July, 2023.

Central India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** is very

likely over Vidarbha and Chhattisgarh during 25th-28th; over West Madhya Pradesh on 25th & 26th; and over East Madhya Pradesh during 26th-28th July, 2023.

Isolated very heavy rainfall also likely over Vidarbha and Chhattisgarh on 26th & 27th and over East Madhya Pradesh on 27th July, 2023.

West India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy to very heavy rainfall** very likely to continue over Konkan & Goa and ghat areas of Madhya Maharashtra during 25th-29th; over Marathwada on 25th and **isolated heavy rainfall** over Gujarat Region during 25th-27th and over Saurashtra & Kutch on 25th July, 2023.

Isolated extremely heavy rainfall very likely over Konkan & Goa and ghat areas of Madhya Maharashtra on 25th & 26th July, 2023.

South India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe during 25th-27th; over Telangana during 25th-28th and over Coastal & North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal on 25th & 26th June, 2023.

Isolated very heavy rainfall likely over Rayalaseema and Kerala & Mahe on 25th and over Karnataka during 25th-27th July, 2023.

Isolated extremely heavy rainfall very likely over Telangana during 25th-27th; over Coastal Andhra Pradesh & Yanam on 25th & 26th; over Coastal & South Interior Karnataka on 26th and over Rayalaseema on 26th July, 2023.

East India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over Odisha during 24th-28th; Sub-Himalaya West Bengal & Sikkim on 24th, 27th & 28th July, 2023.

Isolated very heavy rainfall likely over Odisha on 25th & 26th July, 2023.

Light/moderate scattered to fairly widespread rainfall likely over Bihar from 28th July.

Northeast India: Light/moderate fairly widespread rainfall with **isolated heavy rainfall** very likely over and Arunachal Pradesh and Assam & Meghalaya during 25th to 29th and over Nagaland, Manipur, Mizoram & Tripura on 25th, 28th & 29th July, 2023.

Isolated very heavy rainfall likely over Arunachal Pradesh and Assam & Meghalaya on 27th & 28th July, 2023.

For more details kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 25th July 2023):

➤ Heavy rainfall observed:

- **Exceptionally heavy rainfall** over Velpur (dist Nizamabad)-40 cm in Telangana and over Avalanche (dist Nilgiris)-38 cm in ghat areas of Tamil Nadu. **Heavy to very heavy rainfall with isolated extremely heavy rainfall** also observed over Telangana.
- **Heavy rainfall observed: Heavy to very heavy rainfall** at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal & South Interior Karnataka, and Kerala & Mahe.
- **Heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalaya West Bengal & Sikkim, Odisha, Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat State, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka.

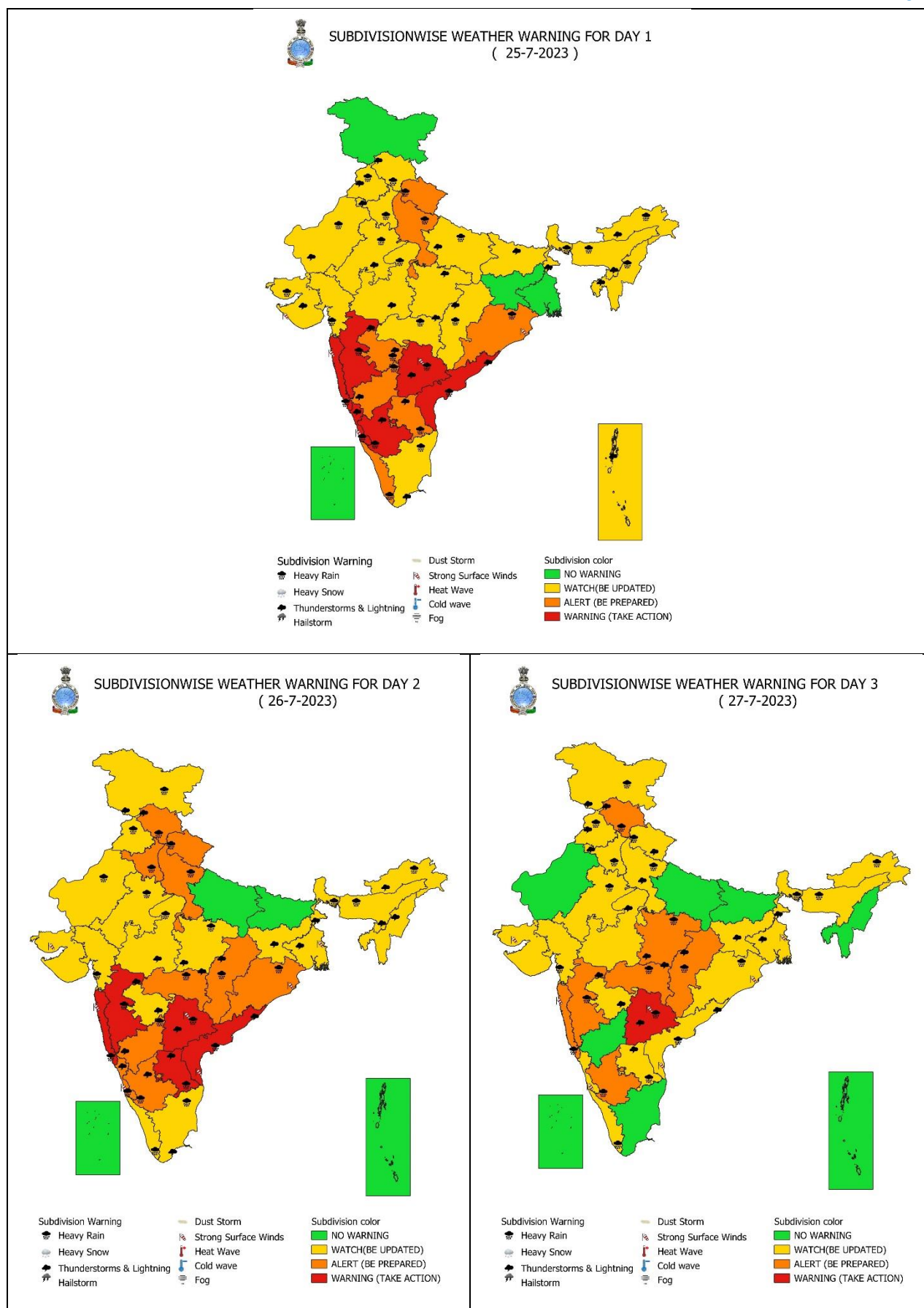
➤ Significant rainfall recorded (in cm):

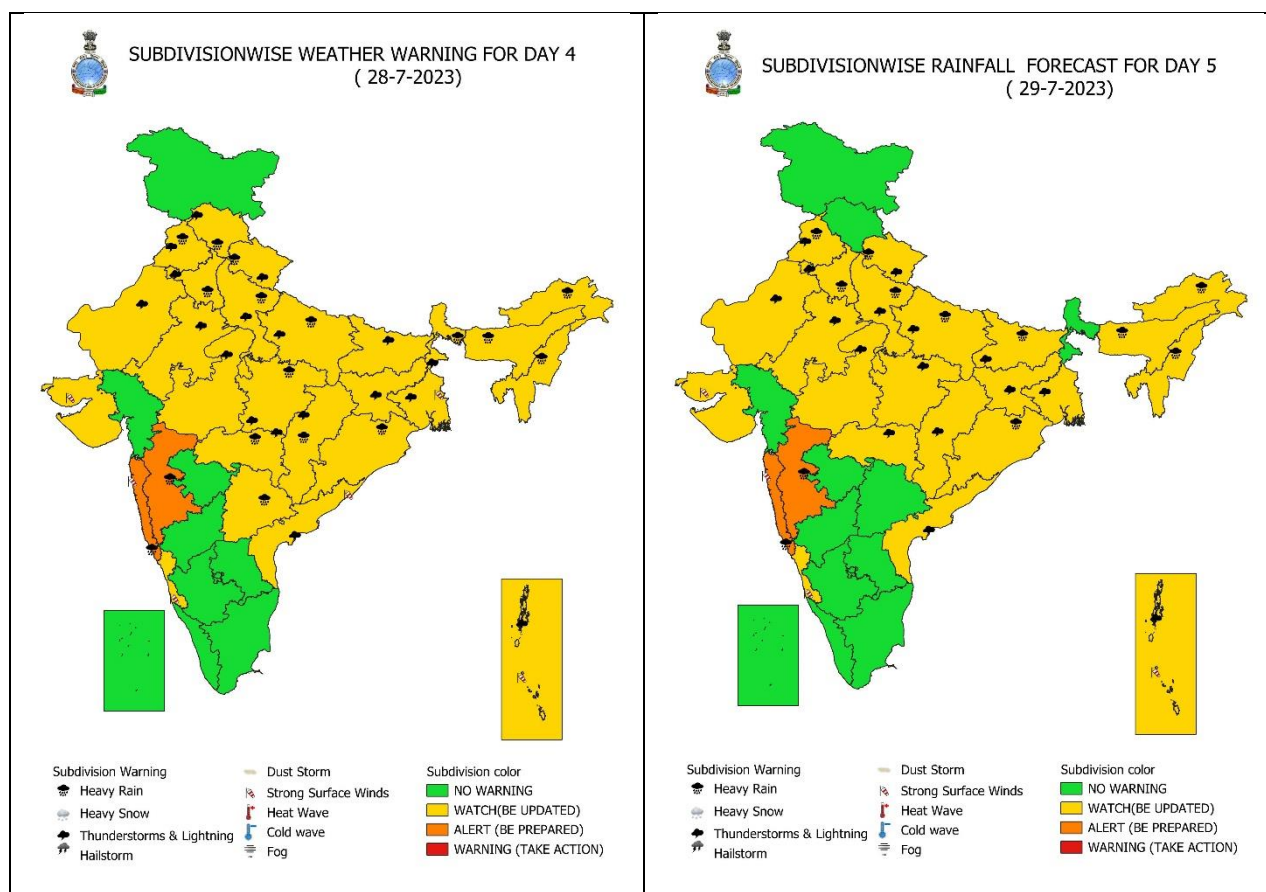
- **Telangana:** Velpur (dist Nizamabad) 40, Jakranpalle (dist Nizamabad) 23, Bheemgal (dist Nizamabad) 23, Sangem (dist Warangal) 22, Nallabelly (dist Warangal) 17, Atmakurwrgl (dist Hanumakonda) 17, Zaffergadh (dist Jangaon) 16, Regonda (dist J. Bhupalpally) 14, Shayampet (dist Hanumakonda) 14, Parkal (dist Hanumakonda) 14, Ghanpur (dist Jangaon) 14, Mortad (dist Nizamabad) 14, Armur (dist Nizamabad) 14, Parvathagiri (dist Warangal) 13, Mulug (dist Mulugu) 13, Bonakal (dist Khammam) 12, Palakurthi (dist Jangaon) 12, Dornakal (dist Mahabubabad) 12, Chennaraopet (dist Warangal) 11, Srirampur (dist Peddapalle) 11, Kusumanchi (dist Khammam) 11, Ghanpurjskb (dist J. Bhupalpally) 11, Mahabubabad (dist Mahabubabad) 11, Khanapur (dist Warangal) 11, Banswada (dist Kamareddy) 11, Manthani (dist Peddapalle) 10, Chityal (dist J. Bhupalpally) 10, Jammikunta (dist Karimnagar) 10, Mogullapalle (dist J. Bhupalpally) 10, Chinthakam (dist Khammam) 10, Dhar Palle (dist Nizamabad) 10, Kodakandla (dist Jangaon) 10, Mandhamarri (dist Mancherial) 10, Bheemadevarpalle (dist Hanumakonda) 10, Narsampet (dist Warangal) 9, Hanamkonda (dist Hanumakonda) 9, Gudurwrgl (dist Mahabubabad) 9, Noothankal (dist Suryapet) 9, Garla (dist Mahabubabad) 9, Narmetta (dist Jangaon) 9, Dharmasagar (dist Hanumakonda) 9, Jaipur (dist Mancherial) 9, Bhupalpalle (dist J. Bhupalpally) 9, Khammam Urban (dist Khammam) 8, Enkuru (dist Khammam) 8, Raghunathpalle (dist Jangaon) 8, Khammam(arg) (dist Khammam) 8, Sadasivanagar (dist Kamareddy) 8, Chigurumamidy (dist Karimnagar) 8, Dich Palle (dist Nizamabad) 8, Thollada (dist Khammam) 8, Konaraopeta (dist Rajanna Sircilla) 8, Hasanparthy (dist Hanumakonda) 8, Gandhari (dist Kamareddy) 8, Kammar Palle (dist Nizamabad) 7, Kothaguda (dist Mahabubabad) 7, Devaruppal (dist Jangaon) 7, Malyal (dist Mahabubabad) 7, Charminar (dist Hyderabad) 7, Huzurabad (dist Karimnagar) 7, Yellareddypeta (dist Rajanna Sircilla) 7, Balkonda (dist Nizamabad) 7, Hayathnagar (dist Rangareddy) 7, Vicarabad (dist Vikarabad) 7, Bayyaram (dist Mahabubabad) 7, Mominpet (dist Vikarabad) 7,
- **Tamilnadu, Puducherry & Karaikal:** Avalanche (dist Nilgiris) 38, Chinnakalar (dist Coimbatore) 12, Upper Bhavani (dist Nilgiris) 11, Worth Estate Cherrumulli (dist Nilgiris), Valparai PTO (dist Coimbatore), Devala (dist Nilgiris) 9 each, Cincona (dist Coimbatore) 8, Sholayar (dist Coimbatore), Valparai PAP (dist Coimbatore), Valparai Taluk Office (dist Coimbatore), Taluk Office Pandalur (dist Nilgiris), Barwood (dist Nilgiris) 7 each,
- **South Interior Karnataka:** Bhagamandala (dist Kodagu) 19, Kottigehara (dist Chikkamagaluru) 16, Langanamakki Hms (dist Shivamogga) 14, Jayapura (dist Chikkamagaluru) 13, Sringeri Hms (dist Chikkamagaluru) 12, Koppa (dist Chikkamagaluru) 11, Virajpet (dist Kodagu) 11, Thalaguppa (dist Shivamogga) 11, Kammardi (dist Chikkamagaluru) 10, Somwarpet (dist Kodagu) 10, Napoklu (dist Kodagu) 9, Ponnampet Pwd (dist Kodagu) 9, Kalasa (dist Chikkamagaluru) 8, Murnadu (dist Kodagu) 8, Hunchadakatte (dist Shivamogga) 8, Balehonnur (dist Chikkamagaluru) 7,
- **Coastal Karnataka:** Castle Rock (dist Uttara Kannada) 17, Mulki (dist Dakshina Kannada) 16, Subramanya (dist Dakshina Kannada) 16, Sulya (dist Dakshina Kannada) 15, Gersoppa (dist Uttara Kannada) 15, Shirali Pto (dist Uttara Kannada) 14, Mani (dist Dakshina Kannada) 14, Uppinangadi (dist Dakshina Kannada) 12, Kollur (dist Udupi) 12, Mangaluru (dist Dakshina Kannada) 12, Mangaluru Ap Obsy (dist Dakshina Kannada) 12, Panambur Obsy (dist Dakshina Kannada) 12, Puttur Hms (dist Dakshina Kannada) 12, Siddapura (dist Udupi) 11, Honavar Obsy (dist Uttara Kannada) 11, Kadra (dist Uttara Kannada) 11, Belthangadi (dist Dakshina Kannada) 10, Joida (dist Uttara Kannada) 10, Dharmasthala (dist Dakshina Kannada) 9, Kundapur (dist Udupi) 9, Karwar Obsy (dist Uttara

Kannada) 9, Manki (dist Uttara Kannada) 9, Udupi (dist Udupi) 9, Siddapur (dist Uttara Kannada) 9, Yellapur (dist Uttara Kannada) 8, Karkala (dist Udupi) 8, Kumta (dist Uttara Kannada) 7, Kota (dist Udupi) 7,

- **Madhya Maharashtra:** Mahabaleshwar- Imd Obsy (dist Satara) 17, Lonavala_agri (dist Pune) 15, Gaganbawada (dist Kolhapur) 12,
- **Konkan & Goa:** Matheran (dist Raigad) 15, Ambernath (dist Thane) 14, Karjat_agri (dist Raigad) 13, Sanguem (dist South Goa) 12, Ponda (dist North Goa) 12, Pen (dist Raigad) 11, Chiplun (dist Ratnagiri) 11, Ulhasnagar (dist Thane) 11, Wakwali_agri (dist Ratnagiri) 11, Quepem (dist South Goa) 10, Sangameshwar Devrukh (dist Ratnagiri) 10, Margao (dist South Goa) 10, Tala (dist Raigad) 10, Poladpur (dist Raigad) 10, Murbad (dist Thane) 10, Dapoli_agri (dist Ratnagiri) 10, Bhiwandi (dist Thane) 9, Mandangad (dist Ratnagiri) 9, Sawantwadi (dist Sindhudurg) 9, Sudhagad Pali (dist Raigad) 9, Panvel_agri (dist Raigad) 9, Mahad (dist Raigad) 9, Thane (dist Thane) 8, Tbia Imd Part Time (dist Thane) 8, Canacona (dist South Goa) 8, Dodamarg (dist Sindhudurg) 8, Mangaon (dist Raigad) 8, Mormugao - Pmo Imd (dist South Goa) 8, Panjim – Imd Obsy (dist North Goa) 7, Kalyan (dist Thane) 7, Shahapur (dist Thane) 7, Khalapur (Raigad) 7,
- **Kerala & Mahe:** Peringome Aws (dist Cannur) 12, Muliyar Aws (dist Kasargod) 10, Vilangad Aws (dist Kozhikode) 10, Madikkai Aws (dist Kasargod) 10, Hosdurg (dist Kasargod) 10, Padannakkad Aws (dist Kasargod) 10, Bayar Aws (dist Kasargod) 9, Kudulu (dist Kasargod) 9, Aralam Aws (dist Cannur) 9, Taliparamba (dist Cannur) 8, Kannur (dist Cannur) 8, Manantoddy (dist Wynad) 8, Vellanikkara (dist Thrissur) 8, Vyttili (dist Wynad) 7, Mahe (dist Mahe) 7, Irikkur (dist Cannur) 7, Ams Kannur (dist Cannur) 7, Mattannur Arg (dist Cannur) 7,
- **Gujarat Region:** Daman_arg (dist Daman) 11, Silvassa (dist Dadara & Nagar Haveli) 10, Kamrej (dist Surat) 9, Daman (dist Daman) 9, Kaprada (dist Valsad) 9, Anand (dist Anand) 8, Daman Fmo (dist Daman) 8, Nadiad (dist Kheda) 7, Umerpada (dist Surat) 7,
- **East Uttar Pradesh:** Muhammadi (Dist Kheri) 11, Katerniaghat (Dist Bahraich) 7,
- **West Uttar Pradesh:** Bareilly CWC (dist Bareilly) 11, Pawayan (dist Shahjahanpur) 9, Badaun (dist Badaun) 9,
- **Chhattisgarh:** Bastar (dist Bastar) 11,
- **Coastal Andhra Pradesh & Yanam:** Garugubilli (dist Parvathipuram Manyam) 10, Ranastalam (dist Srikakulam) 7, Tiruvuru (dist Ntr District) 7,
- **Uttarakhand:** Kapkot (dist Bageshwar) 9, Nandprayag (dist Chamoli) 7,
- **Sub-Himalaya West Bengal & Sikkim:** Jhallong 9, Rongo 7,
- **Himachal Pradesh:** Dharmasala (dist Kangra) 8,
- **Saurashtra & Kutch:** Diu (dist Diu) 8, Kodinar (dist Gir Somnath) 7,
- **North Interior Karnataka:** Londa (dist Belagavi) 8,
- **Nagaland, Manipur, Mizoram & Tripura:** Udaipur (dist Gomati) 9, Mamit Agri (dist Mamit) 7,
- **Arunachal Pradesh:** Itanagar (dist Papumpara) 8, Bhalukpong (dist West Kameng) 7,
- **West Madhya Pradesh:** Narmadapuram (dist Narmadapuram) 7,
- **Odisha:** Kotpad (Dist Koraput) 7,
- **East Rajasthan:** Jhalrapatan Sr (dist Jhalawar) 7,
- **Vidarbha:** Bramhapuri (dist Chandrapur) 7,
- **Marathwada:** Umari (dist Nanded) 7.

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **Dist.:** District; **AWS:** Automatic Weather Station; **ARG:** Automatic Rain Gauge; **FMO:** Flood Meteorological Office; **KVK:** Krishi Vigyan Kendra





Agromet advisories for heavy rainfall likely over various parts of the country

- Drain out excess water from crop fields to avoid water stagnation in Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, Rajasthan, Sub Himalayan West Bengal & Sikkim, Odisha, West Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Gujarat State, Tamil Nadu, Kerala, Karnataka, Andhra Pradesh, Telangana and North Eastern States.
- Postpone transplanting of rice and finger millet in Konkan; rice in South Interior Karnataka, Coastal Andhra Pradesh and ghat regions of Madhya Maharashtra. Postpone direct sowing of rice in Telangana.
- Postpone sowing of groundnut, maize, late sown cotton and red gram in Coastal Karnataka.

Impact & Action Suggested due to very heavy/extremely heavy rainfall over Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka during 25th-27th July; Odisha, Coastal Karnataka, Rayalaseema, Uttarakhand, West Uttar Pradesh on 25th & 26th July, 2023.

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 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.

Observed Flash Flood Threat (IFFT) **till 1130 IST of 25-07-2023 :**

Moderate flash flood threat observed over few watersheds & neighbourhoods of following Met Sub-divisions during last 6 hours.

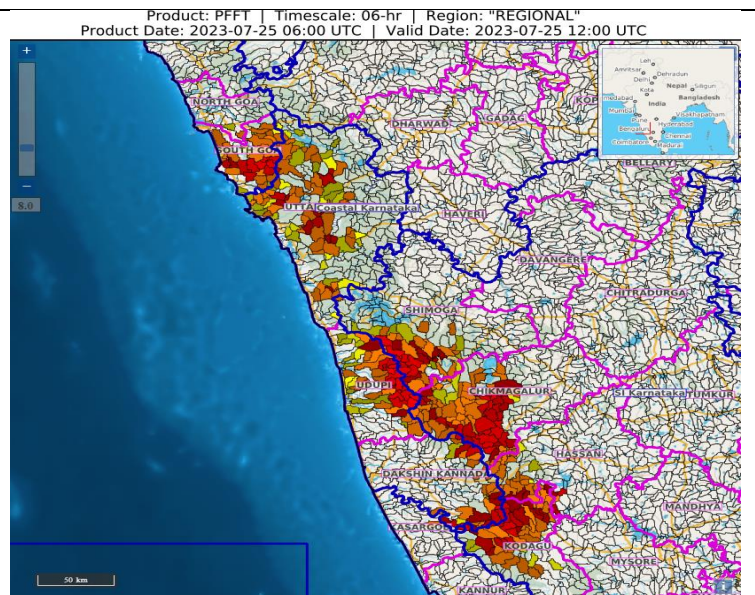
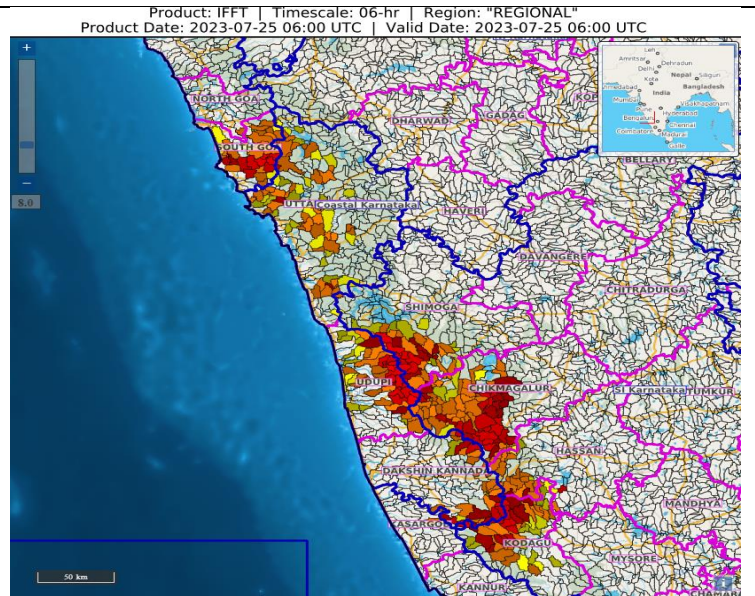
Coastal Karnataka - Dakshin Kannada, Udupi and Uttar Kannada districts.
SI Karnataka - Chikmagalur, Hassan, Kodagu and Shimoga districts.
Konkan & Goa - South Goa district.

Persistent Flash Flood Threat (PFFT) **till 1730 IST of 25-07-2023 :**

Moderate flash flood threat likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 6 hours.

Coastal Karnataka - Dakshin Kannada, Udupi and Uttar Kannada districts.
SI Karnataka - Chikmagalur, Hassan, Kodagu and Shimoga districts.
Konkan & Goa - South Goa, Raigarh, Ratnagiri and Sindhudurg districts.

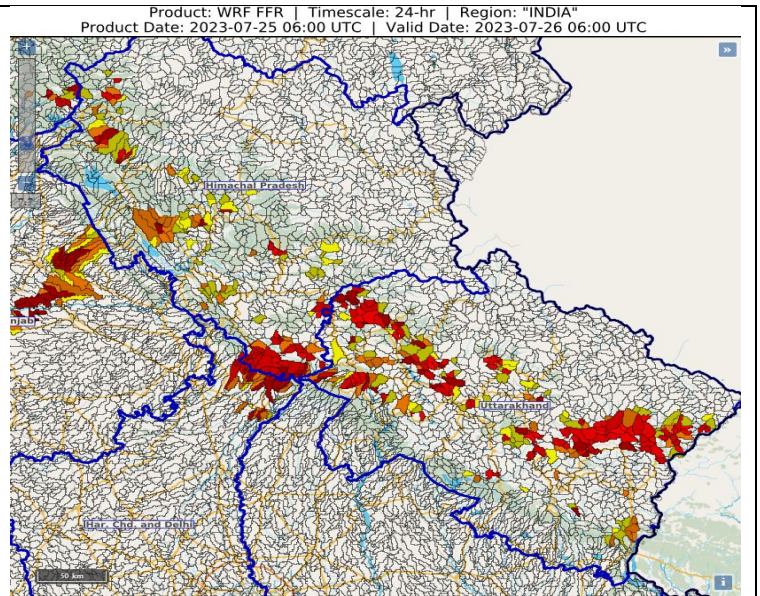
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 6 hours.



24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 26-07-2023 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of **Uttarakhand adjoining Himachal Pradesh** Met Sub-divisions during next 24 hours.

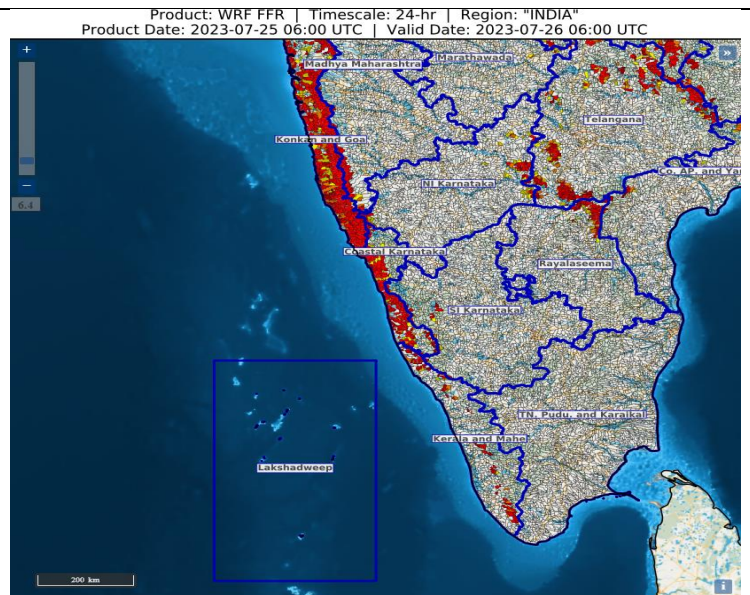
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 26-07-2023 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of **Coastal Karnataka, Telangana and Konkan & Goa** Met Sub-divisions during next 24 hours.














Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **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		Subdivision color	
	Heavy Rain		NO WARNING
	Heavy Snow		WATCH(BE UPDATED)
	Thunderstorms & Lightning		ALERT (BE PREPARED)
	Hailstorm		WARNING (TAKE ACTION)
	Dust Storm		
	Strong Surface Winds		
	Heat Wave		
	Cold wave		
	Fog		

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75