



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

**Press Release
Date: 01st July, 2022
Time of Issue: 1345 hrs IST**

- Subject: i) Southwest Monsoon has further advanced into entire Punjab and Haryana; and more parts of Rajasthan today, the 1st July, 2022.**
- ii) Conditions are favorable for further advance of monsoon into remaining parts of Rajasthan and Gujarat during next 2-3 days. Hence, southwest monsoon is likely to cover the entire country during next 2-3 days.**

Weather observed during past 24 hours ending at 0830 hrs IST of today:

- **Extremely heavy rainfall** at isolated places occurred over Arunachal Pradesh, Gujarat Region and Konkan & Goa; **heavy to very heavy rainfall** at isolated places occurred over Sub-Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi, Punjab, West Rajasthan, West Madhya Pradesh and Coastal Karnataka and **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Gangetic West Bengal, Jharkhand, East Uttar Pradesh, Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. (**Annexure I**)

Advance of Southwest Monsoon:

- Southwest Monsoon has further advanced into entire Punjab and Haryana; and more parts of Rajasthan today, the 1st July, 2022. The Northern Limit of Monsoon (NLM) now passes through Lat. 24°N/ Long. 60°E, Lat. 24°N/ Long. 65°E, Deesa, Chittorgarh, Bikner and Khajuwala.
- Conditions are favorable for further advance of monsoon into remaining parts of Rajasthan and Gujarat during next 2-3 days. Hence, southwest monsoon is likely to cover the entire country during next 2-3 days.

Rainfall/thunderstorm Forecast & Warnings: (Multi-hazard warning is given in Annexure III)

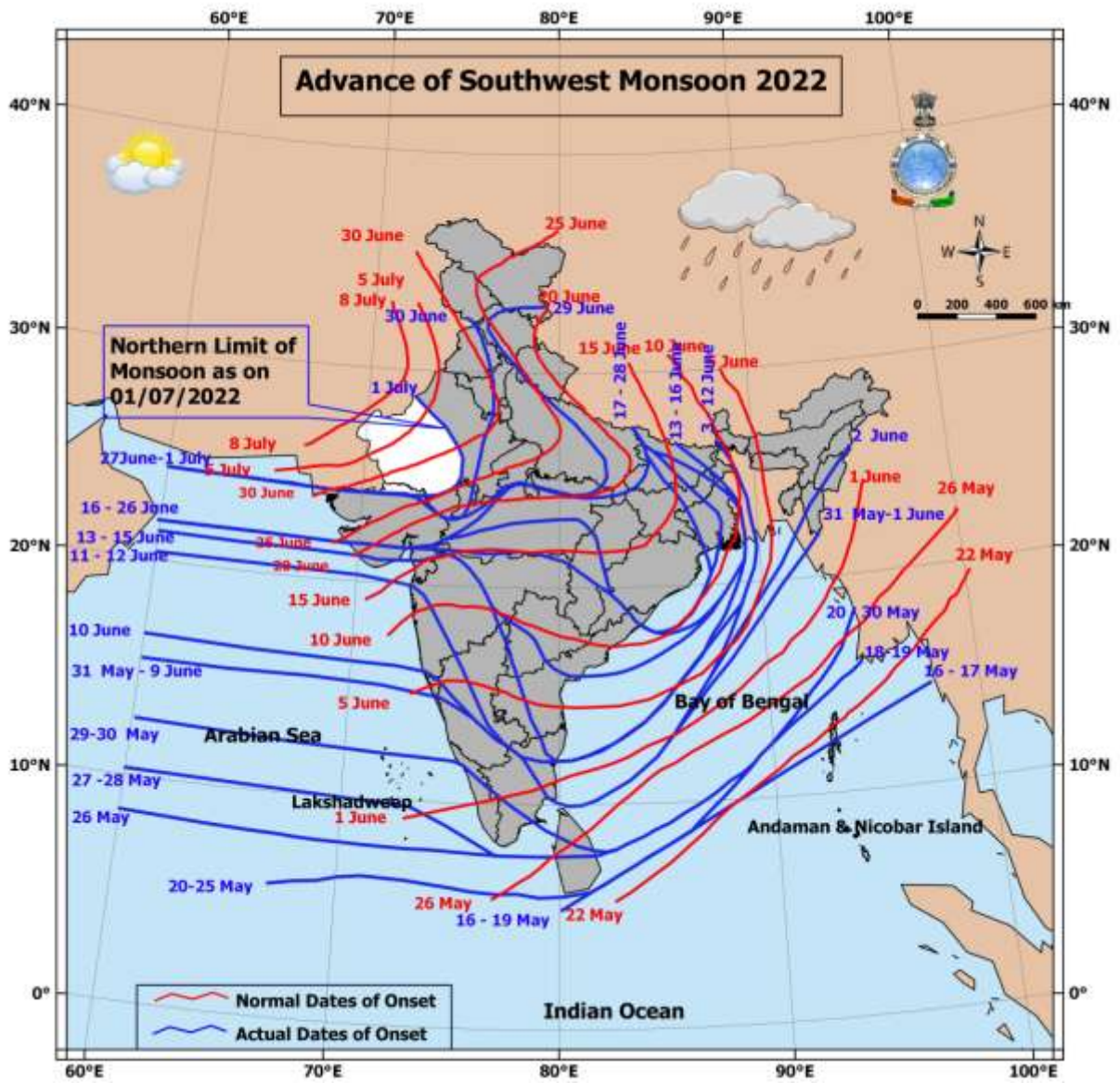
- An east-west trough runs from northwest Rajasthan to northeast Bay of Bengal in lower tropospheric levels. Due to this trough and moist winds from Bay of Bengal and Arabian Sea over northern parts of the country in lower tropospheric levels:
 - Fairly widespread/widespread light/moderate rainfall with isolated thunderstorm/lightning very likely over Uttarakhand and Himachal Pradesh during next 5 days. Fairly widespread/widespread light/moderate rainfall with isolated thunderstorm/lightning very likely over Haryana-Chandigarh-Delhi, Punjab and Rajasthan on 01st July and reduce thereafter to scattered/fairly widespread activity.
 - Isolated **heavy rainfall** very likely over West Rajasthan on 01st & 02nd; East Rajasthan on 01st, 02nd & 04th; Punjab, Haryana-Chandigarh & Rajasthan on 01st July; Himachal Pradesh on 01st & 05th; Uttarakhand and East Uttar Pradesh during 02nd-05th; West Uttar Pradesh on 05th July.

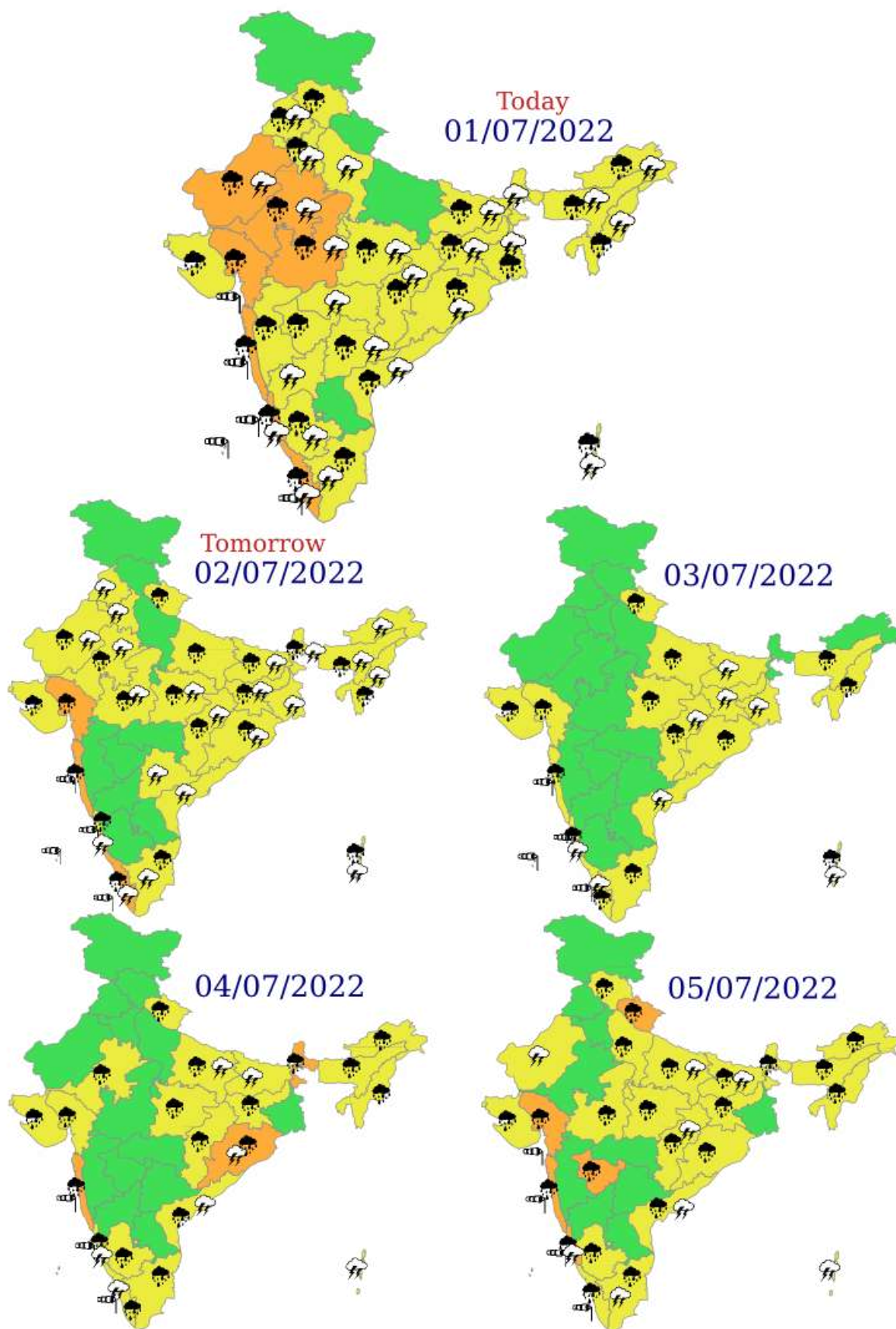
Isolated heavy to very heavy rainfall also very likely over Rajasthan on 01st and Uttarakhand on 05th July, 2022.

- Scattered/fairly widespread light/moderate rainfall with isolated thunderstorm/lightning very likely over Madhya Pradesh, Chhattisgarh and Vidarbha during next 5 days.
 - Isolated **heavy rainfall** very likely over East Madhya Pradesh and Chhattisgarh during next 5 days; over West Madhya Pradesh on 01st, 02nd and 05th July. **Isolated heavy to very heavy rainfall also very likely over West Madhya Pradesh on 01st July; 2022.**
 - Fairly widespread/widespread rainfall with **thunderstorm/lightning** very likely to continue over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 4-5 days.
 - Isolated **heavy rainfall** very likely over Odisha during next 5 days; Bihar on 01st, 02nd & 05th; Jharkhand on 01st, 02nd, 03rd & 05th; Gangetic West Bengal on 01st July, 2022. **Isolated heavy to very heavy rainfall** also likely over Odisha on 04th July, 2022.
- Under the influence of the off-shore trough at mean sea south Gujarat to south Maharashtra coast and strong westerly/south westerly winds along the west coast in lower tropospheric levels:
- Widespread light/moderate rainfall with thunderstorm/lightning very likely over Konkan & Goa, Coastal Karnataka and Kerala & Mahe and scattered to fairly widespread rainfall activity over Gujarat, Madhya Maharashtra and Interior Karnataka during next 5 days.
 - Isolated **heavy rainfall** very likely over Gujarat Region, Konkan & Goa, Coastal Karnataka and Kerala & Mahe during next 5 days; Madhya Maharashtra on 01st; South Interior Karnataka on 01st, 04th & 05th; Tamil Nadu, Puducherry & Karaikal on 01st, 02nd & 05th July.
 - **Isolated heavy to very heavy rainfall also very likely over Gujarat Region and Konkan & Goa on 01st, 02nd & 05th; Coastal Karnataka on 01st & 05th July, 2022.**

Rainfall (in cm):

- ❖ **Gujarat Region: Anand:** Borsad-28, Anklav-8, **Surat:** Kamrej-20, Umerpada-16, Surat_kvks Aws-16, Mangrol-15, Surat City-12, Surat_aws-11, Choryasi-7, **Bharuch:** Valia-12, Netrang-8, Jambuser-7, **Kheda:** Nadiad-11, Bilodara_aws-11, **Narmada:** Dediapada-11, **Vadodara:** Padra-8, **D&N Haveli:** Khanvel-7, **Navsari:** Gandevi-7, **Daman:** Daman_arg-7;
- ❖ **Konkan & Goa:- Mumbai City:** Colaba-23, Mahalaxmi_aws-18, **Mumbai Suburban:** Santacruz-17, **Ratnagiri:** Guhagarh, Rajapur & Lanja-15, Ratnagiri-11, Dapoli_agri & Sangameshwar Devrukh-7, **Sindhudurg:** Malvan-15, Rameshwar_agri & Kudal-12, Vengurla & Sawantwadi-10, Devgad-9, Dodamarg-8, Vaibhavwadi-7, **Raigad:** Alibag-12, Murud & Uran-10, Shriwardhan-9, Pen-7, **North Goa:** Obsy-11, Mapusa-9, Ponda-7, **Palghar:** Vasai-10, Palghar_agri-9, **South Goa:** Quepem-10, Canacona & Dabolim-9, Mormugao-8, **Thane:** Thane-9, Tbia-7;
- ❖ **Saurashtra & Kutch: Devbhoomi Dwarka:** Khambhalia-9;
- ❖ **Coastal Karnataka: Dakshin Kannada:** Mulki-20, Penambur-14, Puttur & Mengaluru-11, **Udupi:** Kota-15, Udupi & Siddapura-9, Kundapur-8, Karkala-7, **Uttar Kannada:** Shirali -16, Gokarna-15, Basagod, Ankola-10, Karwar, Manki-9, Kumta-8,
- ❖ **South Interior Karnataka: Kodagu:** Bhagamandala-8; **Shivamogga:** Tumri—7;
- ❖ **West Madhya Pradesh: Narmadapuram:** Itarsi-14, Narmadapuram-11, Dolariya, Babai & Seoni Malwa-7, **Betul:** Amla-13, **Dewas:** Sonkatch & Tonkhurd -11, **Sehore:** Budhni-11, Ashta-aws-7, **Ujjain:** Tarana-9, **Mandsaur:** Shamgarh-9, **Ashoknagar:** Isagarh-7, **Ratlam:** Ratlam-aws-7;
- ❖ **East Madhya Pradesh: Seoni:** Keolari-7;
- ❖ **Jharkhand: Bokaro:** Bokaro-7;
- ❖ **Assam & Meghalaya:- Dibrugarh:** Mohanbari-10, **East Khasi Hills:** Mawsynram & Shella-7, **Jorhat:** Majuli-7, **Kokrajhar:** Gossaingaon-8,
- ❖ **Sub-Himalayan West Bengal & Sikkim: Gyalshing:** Yuksom (ARG)-8; Jalpaiguri: Buxaduar-20, Kumargram-14, Jalpaiguri-11;
- ❖ **Haryana, Chandigarh & Delhi:- New Delhi:** Rohtak-19, Safdarjung-12, Lodi Road-11, **East Delhi:** Mayur Vihar-11, **Central Delhi:** Pusa-7, **North Delhi:** Delhi University-7, **Northwest Delhi:** Narela-8, **South Delhi:** Aaya Nagar-7, Chadigarh-7;
- ❖ **Punjab:** Ludhiana & Fathegarh-8, Ropar-7
- ❖ **Himachal Pradesh:** Kangra: Dharmshala-8, Dhera Gopipur-7;
- ❖ **East Uttar Pradesh:-** Chitrakoot: Karwi-11, Sonbhadra: Churk-7;
- ❖ **East Rajasthan: Jhunjhunu:** Khetri-10, Jhunjhunu-9, **Jaipur:** Paowa-9, Chomu & Shahpura-7, **Sikar:** Sikar-9, **Alwar:** Kotkasim-8, **Baran:** Baran-7;
- ❖ **West Rajasthan: Churu:** Rajgarh-12, **Hanumangarh:** Sangaria-8, Tibi-7, **Bikaner:** Dungargarh-7;
- ❖ **Arunachal Pradesh:- West Kameng:** Bhalukpong-22;
- ❖ **Chhattisgarh: Rajnandgaon:** Ambagarh Chowki-7;
- ❖ **Telangana:** Nizamabad: Navipet-10, Yeda Palle-7;
- ❖ **Coastal Andhra Pradesh & Yanam: East Godavari:** Vararamachandrapur-13, **West Godavari:** Narsapuram-10;
- ❖ **Tamil Nadu, Puducherry & Karaikal: Coimbatore:** Cincona-10, Chinnakalar-9, Valparai Taluk Office-7, **Chennai:** Perambur-7, **Tiruvallur:** Goodwill school Villivakkam-7;
- ❖ **Kerala & Mahe: Malappuram:** Perinthalamanna-11, **Palakkad:** Adakkaputhur-9, **Thrissur:** Vyanthala & Chimoli-9, Chalakudi-7, **Cannur:** Cheruthazham arg-7, Kannur & Tellichery-7, **Kasargod:** Hosdurg-9, Kudulu-7, **Kozhikode:** Quilandi-8;
- ❖ **Andaman & Nicobar:** Car Nicobar-9;
- ❖ **Gangetic West Bengal:** Burdwan: Pangarh-8, Murshidabad: Jangipur-8;





EXPECTED IMPACT & ACTION SUGGESTED due to very heavy rainfall over Rajasthan and West Madhya Pradesh on 01st; Himachal Pradesh on 05th; Sub-Himalayan West Bengal & Sikkim and Odisha on 04th; Gujarat Region on 01st, 02nd & 05th; Coastal Karnataka on 01st & 05th and Kerala & Mahe on 01st & 02nd July, 2022.

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
- 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:** >204.4 mm.

Region wise classification of meteorological Sub-Divisions:

- 1) **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.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **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)



WARNING	
WARNING (TAKE ACTION)	
ALERT (BE PREPARED)	
WATCH (BE UPDATED)	
NO WARNING (NO ACTION)	

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

