



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

**Press Release
Date: 29th June, 2022
Time of Issue: 1330 hrs IST**

Subject: i) Southwest Monsoon has further advanced into remaining parts of Bihar, some more parts of Uttar Pradesh, entire Uttarakhand, most parts of Himachal Pradesh today, the 29th June, 2022.

ii) Conditions are favourable for further advance of monsoon into remaining parts of Arabian Sea and Gujarat, some parts of Rajasthan, remaining parts Madhya Pradesh, entire Uttar Pradesh and Himachal Pradesh and some parts of Jammu and Kashmir, some parts of Punjab, Haryana and Chandigarh, entire Delhi during next 48-hours(i.e. between 30th June to 1st July).

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

- **Extremely heavy rainfall** at isolated places over Bihar, Uttarakhand and Sub-Himalayan West Bengal & Sikkim; **Very heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya and Coastal Karnataka and **heavy rainfall** at isolated places over Konkan & Goa Odisha, Chhattisgarh, Himachal Pradesh, East Uttar Pradesh, Punjab, East Rajasthan, Kerala, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. (**Annexure I**)

Advance of Southwest Monsoon:

- Southwest Monsoon has further advanced into remaining parts of Bihar, some more parts of Uttar Pradesh, entire Uttarakhand, most parts of Himachal Pradesh today, the 29th June, 2022.
- The Northern Limit of Monsoon (NLM) now passes through Lat. 24°N/ Long. 60°E, Lat. 24°N/ Long. 65°E, Deesa, Ratlam, Shivpuri, Rewa, Mirzapur, Ayodhya, Haridwar, Una, Dharamshala, 33.5°N/79.0°E.
- Conditions are favourable for further advance of monsoon into remaining parts of Arabian Sea and Gujarat, some parts of Rajasthan, remaining parts Madhya Pradesh, entire Uttar Pradesh and Himachal Pradesh and some parts of Jammu and Kashmir, some parts of Punjab, Haryana and Chandigarh, entire Delhi during next 48-hours(i.e. between 30th June to 1st July).

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

- An east-west trough runs from Punjab to westcentral Bay of Bengal off south Odisha coast. 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 & isolated thunderstorm/lightning very likely over Uttar Pradesh, Uttarakhand, Haryana-Chandigarh, Punjab, East Rajasthan and Himachal Pradesh during 29th June-01st July and with isolated/scattered rainfall activity over Jammu & Kashmir and West Rajasthan during next 5 days. Isolated **heavy to very heavy rainfall** likely over Himachal Pradesh & Uttarakhand on 29th & 30th June; Uttarakhand on 30th July; West Uttar Pradesh during 29th June-01st July and East Rajasthan during 30th June-02nd July. **Isolated extremely heavy rainfall also likely over Uttarakhand on 29th & over East Uttar Pradesh on 29th & 30th July, 2022.**
 - Scattered to fairly widespread rainfall with thunderstorm/lightning with isolated **heavy to very heavy rainfall** very likely over West Madhya Pradesh during 29th June-02nd July; East Madhya Pradesh during 29th June-01st July and isolated **heavy rainfall** over Chhattisgarh during 29th June-02nd July; 2022.
 - Fairly widespread/widespread rainfall with **thunderstorm/lightning** very likely to continue over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 5 days. Isolated **heavy rainfall** likely over Odisha during 29th June-03rd July; Jharkhand on 29th & 30th June; Bihar during 29th June-02nd July. **Isolated extremely heavy rainfall likely over Bihar on 29th June. Isolated heavy to very heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim on 29th & 30th June, 2022.**
- Under the influence of the off-shore trough at mean sea level from north Maharashtra coast to Karnataka coast and strong westerly/south westerly winds along the west coast in lower tropospheric levels:
- Widespread rainfall & **thunderstorm/lightning** with isolated **heavy to very heavy rainfall** 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** over Coastal Andhra Pradesh during 29th June-02nd July; Gujarat Region during 30th June-03rd July; Madhya Maharashtra on 29th June and South Interior Karnataka & Tamil Nadu, Puducherry & Karaikal on 29th & 30th June.
- Under the influence of southerly/southwesterly winds in lower levels from Bay of Bengal to Northeast & adjoining East India:
- Fairly widespread to widespread rainfall with isolated **heavy rainfall & thunderstorm/lightning** very likely over Northeast India during next 5 days. **Isolated heavy to very heavy rainfall likely over Assam & Meghalaya on 29th June, 2022.**

Annexure I

Rainfall (in cm):

Bihar: Araria: Forbesganj-35, Sikkpi-10, Narpatganj-9, Jokihat-8; **Supaul:** Birpur-23, Basua & Bhimnagar-12 each, Nirmali-9; **Kishanganj:** Galgalia-16, Taibpur-15, Bahadurganj-13, Thakurganj-11, Chargharia-9; **Sitamarhi:** Bargania & Dhengbridge-15 each, **Madhepura:** Madhepura-14, Kumarkhand-12, Singheshwar-16, Kishanganj-12, **Madhubani:** Madhwapur-12, Saulight-10, Jainagar-8, Phulparash-7; **Purnia:** Banmankhi-10; **Saharsha:** Saurbazar, Salkhua & Simri.B-9 each, Mahishi & Nauhatta-8 each; **W. Champaran:** Chanpatia-9, Valmikinagar-10, **Darbhanga:** Jaley-8; **East Champaran:** Mehshi-9;

Sub-Himalayan West Bengal & Sikkim: Cooch Behar: AMFU Pundibari-23, Mathabhanga-13; **Darjeeling:** Bagdogra IAF-17, Champasari-12, Bagrakote-8; **Jalpaiguri:** Gajoldoba-12, Domohani-8, Buxaduar & Hasimara-8 each, **North Dinajpur:** Raiganj-7.

Uttarakhand:- Bageshwar: Kapkot-21, Loharkot-13, **Udham sing Nagar:** Khatima-13, **Pithoragarh:** Berinag-11, Champawat: Banbasa-8.

Arunachal Pradesh:- East Siang: Pasighat Aero-18, **Lower Dibang Valley:** Roing-12, **Lohit:** Namsai-11, Itanagar-11, Papumpara: Naharlagun-8, Naharlagun_ Aws-7, Changlang: Miao-7.

Assam & Meghalaya:- Tinsukia: Jiagaon-15, Dhemaji-12, Dholla Bazar-9, **East Khasi Hills:** Shella - 12, Cherrapunji-10, **Chirang:** Panbari-10, **Bongaigaon:** Nh Xing-9, **East Jaintia Hills:** Khliehriat-9, **Dibrugarh:** D/mohanbari Aero-8, **Lakhimpur:** Badatighat-7, **South West Khasi Hills:** Mawkyrwat-7.

Coastal Karnataka: Udupi: Karkala-15, Kota-13, Udupi and Kundapur-11, Siddapura-7, **Uttara Kannada:** Manki-12, Shirali Pto-10, Gokarna-9, Kumta-8, Gersoppa-7, Karwar Obsy-7, **Dakshina Kannada:** Panambur Obsy-9, Mangaluru Ap Obsy-8, Mulki-8, Dharmasthala-8, Belthangadi-7,

Himachal Pradesh: Mandi: Sarkaghat-11, Baldwara-7, **Hamirpur:** Bhoranji-10, Sujanpur-8, Bharari-7,

East Uttar Pradesh:- Maharajganj: Notanwa-10, Nichloul-10, Maharajganj-10, Gorakhpur-8, **Sant Kabir Nagar:** Mehdawal-8, Mirzapur-7, Varansi-7.

Chhattisgarh:- Gariaband: Rajim-11 and Chhura-7,

Odisha: Dhenkanal: Dhenkanal-10,

Punjab:- Pathanko: Phangota-7,

Konkan & Goa:- South Goa: Quepem-7,

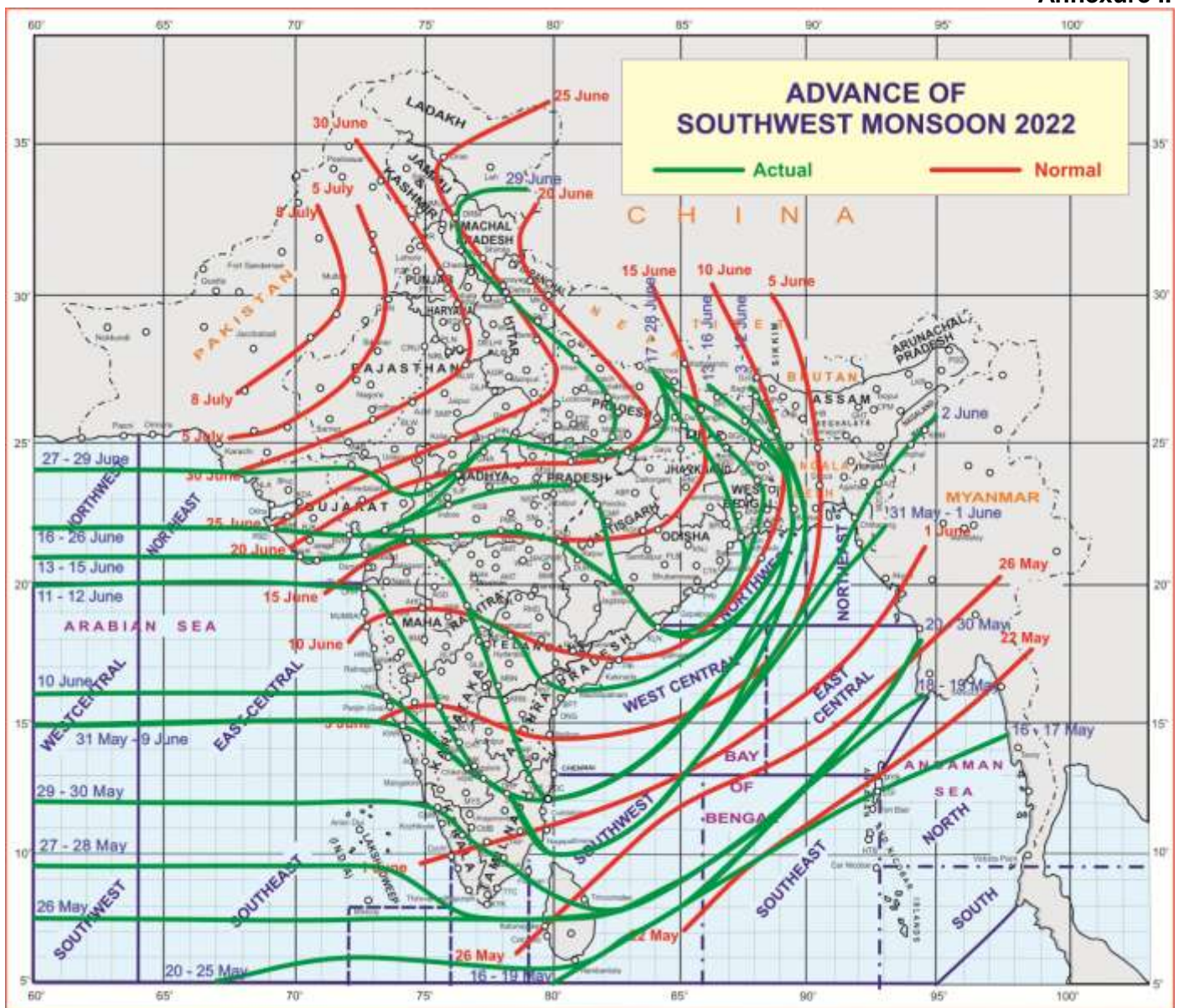
Tamilnadu, Puducherry & Karaikal:- Nilgiris: Taluk office Pandalur & Barwood-7 each,

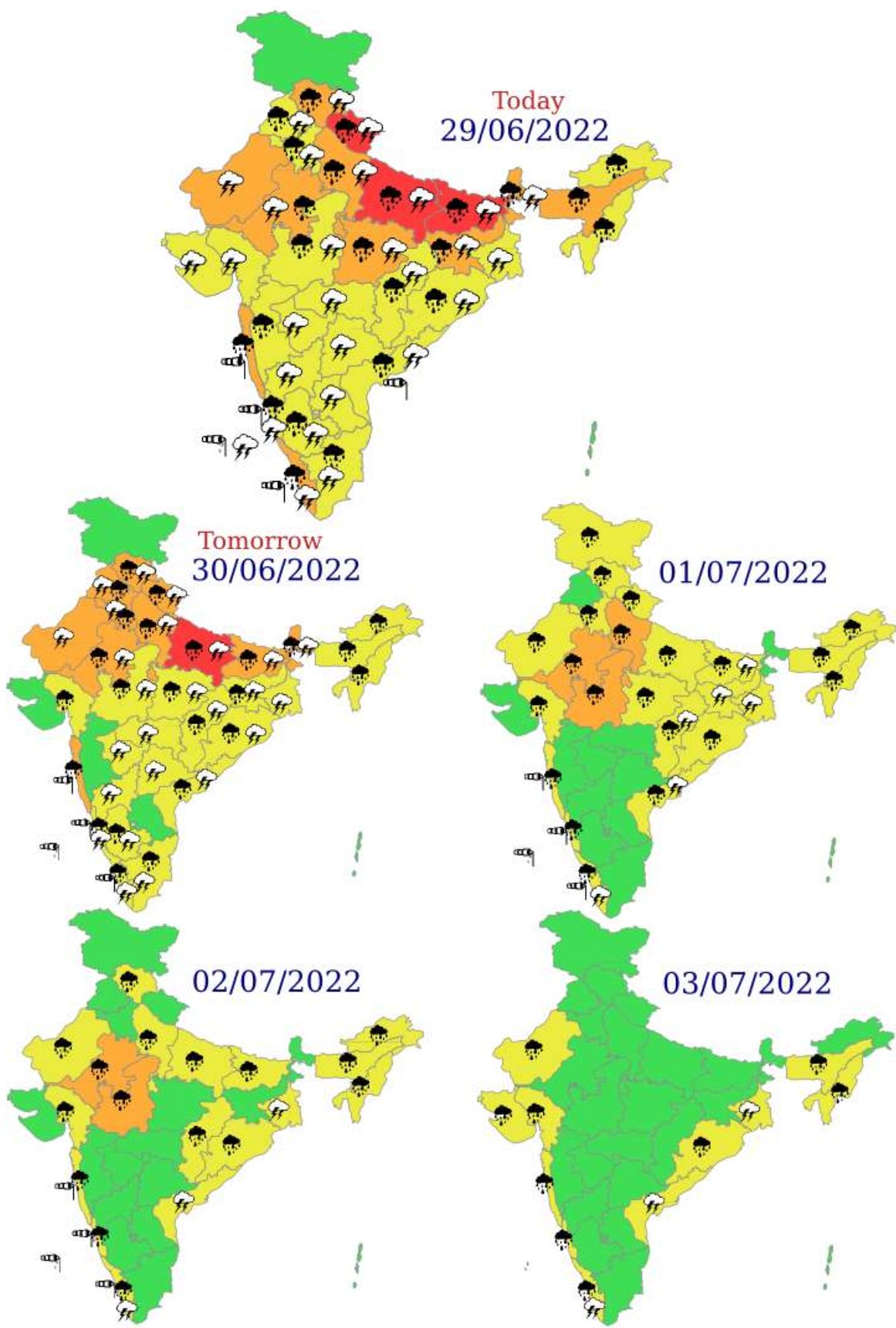
South Interior Karnataka:- Chikkamagaluru: Sringeri Hms -7,

East Rajasthan:- Kota: Mandana-8, **Bundi:** Bundi & Talera-6 each,

Kerala & Mahe:- Kannur: Cherruvanchery-7.

Gujarat Region: Valsad: Vapi-5, **Daman:** Daman Fmo-3,





EXPECTED IMPACT & ACTION SUGGESTED due to extremely heavy/very heavy rainfall over Uttarakhand during 29th June-01st July; Himachal Pradesh, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar during 29th June-02nd July; Jharkhand, Konkan & Goa, Coastal Karnataka & Sub-Himalayan West Bengal & Sikkim on 29th & 30th and Kerala & Mahe & East Madhya Pradesh on 29th 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

