



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 01st June, 2023

Time of Issue: 1315 hours IST

Subject: i) Rainfall along with thunderstorm activity likely to continue over Northwest India during next 24 hours and decrease thereafter.
ii) Heat wave conditions likely over Bihar and West Bengal & Sikkim during next 5 days.

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

Advance of southwest monsoon:

- ❖ Southwest Monsoon has further advanced into some parts of South Arabian Sea, Maldives & Comorin area and some more parts of South Bay of Bengal & Eastcentral Bay of Bengal.
- ❖ The Northern Limit of Southwest Monsoon now passes through 7°N/65°E, 6.5°N/70°E, 6°N/75°E, 6°N/81°E, 8°N/85°E, 10°N/88°E, 14°N/92°E & 19°N/95°E. ([Annexure II](#)).
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of south Arabian Sea, Maldives & Comorin area, South Bay of Bengal, Eastcentral Bay of Bengal and some parts of Northeast Bay of Bengal during next 48 hours.

Significant Meteorological features:

- ❖ The Western Disturbance as a cyclonic circulation in middle & upper tropospheric level lies over north Pakistan and an induced cyclonic circulation lies over Punjab at lower tropospheric levels.
- ❖ A cyclonic circulation lies over south coastal Andhra Pradesh in lower tropospheric levels.
- ❖ A cyclonic circulation likely to develop over southeast Arabian Sea around 05th June. Under its influence a Low Pressure Area is likely to form over the same region during subsequent 48 hours.

Forecast and warning over the country during next 5 days:

Northwest India:

- ❖ Light/moderate scattered to fairly widespread rainfall with thunderstorm, lightning & occasional gusty winds (40-50 gusting to 60 kmph) very likely over Western Himalayan region on 01st & 02nd June and over plains of Northwest India today, the 01st June and reduce thereafter. **Hailstorm** very likely at isolated places over Uttarakhand on 01st & 02nd June.
- ❖ **Heavy rainfall** very likely at isolated places over Jammu & Kashmir, Himachal Pradesh today, on 01st June.

South India:

- ❖ Light/moderate fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Kerala, Lakshadweep, Coastal & South Interior Karnataka and isolated to scattered rainfall over Tamil Nadu and Andhra Pradesh during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Tamil Nadu and Coastal Karnataka on 01st June and over Kerala during 01st-05th June.

No significant weather is likely over rest parts of the country during next 5 days.

Observed Maximum Temperatures and Heat Wave conditions:

- ❖ Yesterday, Maximum Temperatures were in the range of 40-42°C over many parts of Vidarbha, Marathawada, Gujarat region, East India and below 40°C over rest parts of the country.
- ❖ Maximum Temperatures were below normal by 4-6°C over most parts of northwest India, by 2-4°C over Madhya Pradesh. Maximum Temperatures were above normal by 2-4°C over most parts of East India, Maharashtra, Karnataka and Kerala; by 4-6°C over Northeast India and near normal over rest parts of the country.

Maximum Temperature Forecast and Heat Wave Warnings (Graphics in Annexure III):

- ❖ No significant change in maximum temperature very likely over Northwest India during next 2 days and gradual rise by 3-5°C thereafter. Rise by 2-4°C in maximum temperatures very likely over West & Central India during next 3 days and no significant change thereafter. No significant change in maximum temperature very likely over rest parts of the country during next 5 days.
- ❖ **Heat wave conditions** very likely to continue in isolated pockets over Bihar and West Bengal & Sikkim during 01st-05th June and likely to prevail over Madhya Maharashtra, Vidarbha and Chhattisgarh on 02nd & 03rd June.
- ❖ Due to humid air & high temperature, **Hot and Discomfort weather** is very likely over Konkan on 01st & 02nd June.
- ❖ Maximum temperatures are likely to be above normal by 4-6°C over Northeast India during next 2 days.

For more details kindly refer:

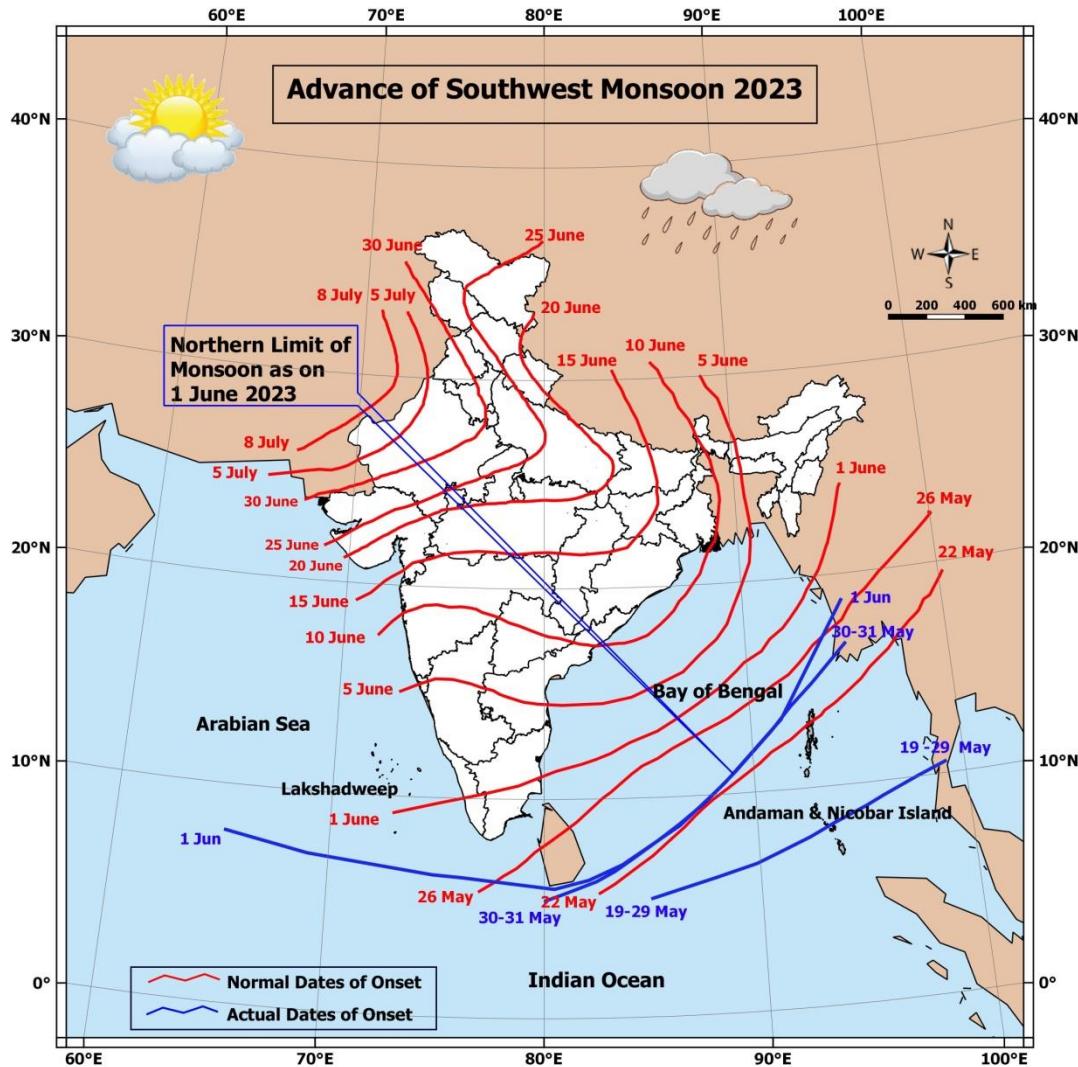
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

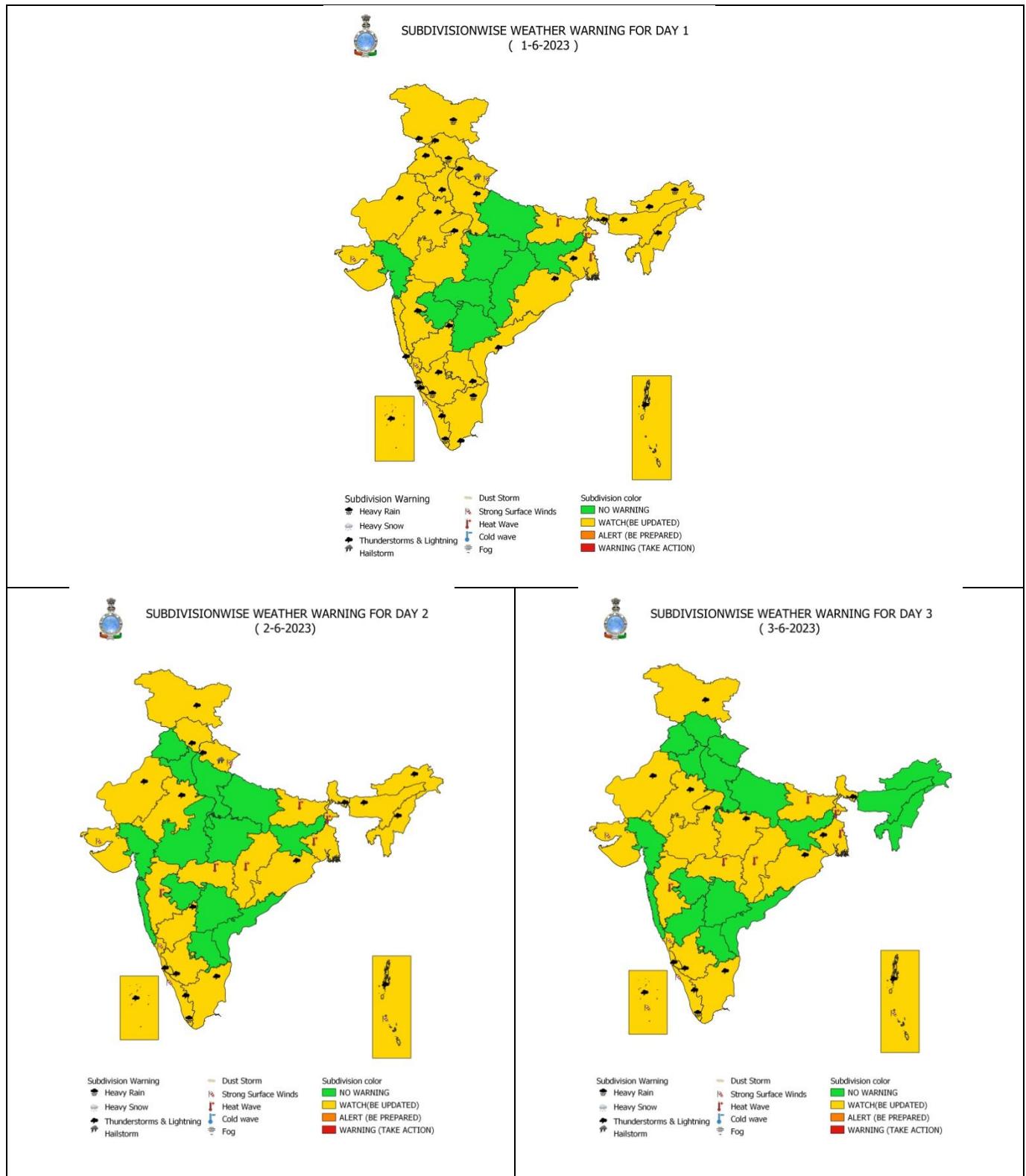
Weather Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

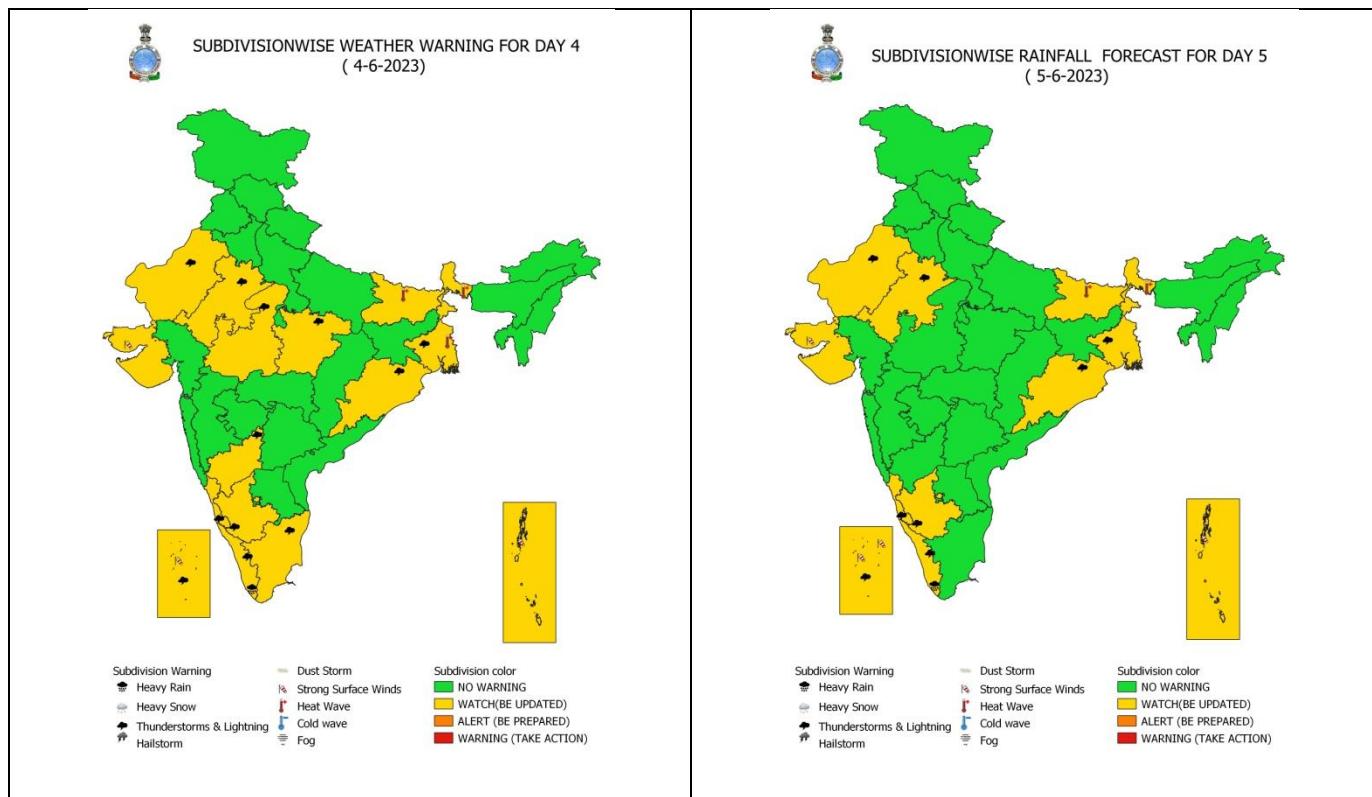
- **Rainfall/thundershowers** observed **at most places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands; **at many places** over Uttarakhand, Coastal & North Interior Karnataka, Kerala, Sub-Himalayan West Bengal & Sikkim; **at a few places** over West Rajasthan, Konkan & Goa, Lakshadweep, South Interior Karnataka, , Nagaland, Manipur, Mizoram & Tripura and **at isolated places** over Arunachal Pradesh, Assam & Meghalaya, West Uttar Pradesh, East Rajasthan, Chhattisgarh, Jharkhand, Odisha, Gangetic West Bengal, Madhya Maharashtra and Telangana and Tamilnadu, Puducherry & Karaikal.
- **Heavy to very heavy rainfall** observed at isolated places over Uttarakhand and **heavy rainfall** at isolated places over Himachal Pradesh, West Rajasthan, Goa, Tamil Nadu and Kerala.
- **Significant rainfall recorded (in cm):** **Tamil Nadu:** Valparai PAP (dist Coimbatore), Valparai Taluk Office (dist Coimbatore) 7 each, Hogenekal (dist Dharmapuri), Kovilpatti AWS (dist Toothukudi) 5 each, **Kerala:** Laha AWS (Pathanamthitta district) 8, Kannur 7, Idamalayar Dam AWS (Ernakulam district) 6 each, **Rajasthan:** Ramgarhshekhatan Sr (dist Sikar) 4, Fatehpur (dist Sikar) 4, Udaipur-wati (dist Jhunjhunu) 4, Karanpur (dist Sri Ganganagar) 4, **Himachal Pradesh:** Solan-9, Bilaspur, Una-7 each, Sirmaur-6, Kangra-5, **Uttarakhand:** Mussoorie, Chakrata-12 each, Dhanaulti-11, Uttar Kashi-6, **Jammu:** Kathua_kvk (dist Kathua) 4, Nowgam (dist Kupwara) 4, **Haryana:** Tajewala (dist Yamuna Nagar) 5, **Punjab:** Madhopur (dist Pathankot) 6, Raikot Arg (dist Ludhiana) 5, **Goa:** Quepem (dist South Goa) 9, Margao (dist South Goa) 7, **Madhya Maharashtra:** Patan (dist Satara) 5, **Odisha:** Champua (dist Keonjhargarh) 4, Gurundia (dist Sundargarh) 4, **West Bengal:** Darzeeling-5, Birbhum-4.
- **Hailstorm observed** at isolated places over Uttarakhand and Madhya Maharashtra.

Annexure II



Annexure III





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, Tamilnadu, 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