



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

**Press Release
Date: 22nd June, 2023
Time of Issue: 1415 hours IST**

- Subject: i) Further advance of Southwest Monsoon into some more parts of peninsular & Eastern parts of India today, 22nd June, 2023.**
- ii) Abatement of Heat Wave conditions over Uttar Pradesh, Bihar, Jharkhand, Odisha, Chhattisgarh from today.**
- iii) Heavy to Very heavy falls over Northeast India and Sub-Himalayan West Bengal & Sikkim very likely to continue during next 2 days and decrease gradually thereafter.**

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

Advance of Southwest Monsoon (Annexure II)

- ❖ The Southwest Monsoon has further advanced into some parts of Telangana, remaining parts of Andhra Pradesh, some parts of Odisha, remaining parts of Westcentral Bay of Bengal & some more parts Northwest Bay of Bengal, some more parts of Gangetic West Bengal, Jharkhand and Bihar today, the 22nd June.
- ❖ The Northern Limit of Monsoon (NLM) now passes through Lat. 16.5°N/ Long. 55°E, Lat. 17.0°N/ Long. 60°E, Lat. 17°N/ Long. 65°E, Lat. 17°N/ Long. 70°E, Ratnagiri, Raichur, Khammam, Malkangiri, Paralakhemundi, Lat. 21.5°N/Long. 87.5°E, Haldia, Bokaro, Patna, Raxaul and Lat. 28°N/ Long. 84°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon over some more parts of south Peninsular India, remaining parts of Odisha, Gangetic West Bengal, Jharkhand and Bihar and some parts of Chhattisgarh, Uttar Pradesh, Uttarakhand, Madhya Pradesh during next 2-3 days.

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

(A) Low Pressure Area (Remnant of Cyclonic Storm 'Biparjoy') over central parts of Uttar Pradesh

A **Low Pressure Area** lies over central parts of Uttar Pradesh. Under its influence:

Heavy Rainfall Warning:

- Light to moderate rainfall at some places with isolated heavy to very heavy rainfall is very likely over Uttar Pradesh and north Madhya Pradesh on 22nd June.

(B) Weather Forecast and Warning for rest parts of the country due to strengthening of the Southwest Monsoon Flow over the Indian subcontinent:

Northeast & adjoining East India:

- ❖ Light/moderate rainfall at most places with isolated thunderstorm & lightning very likely during next 5 days.
- ❖ Isolated **extremely heavy rainfall** likely over west Assam & Meghalaya on 22nd June and isolated **Heavy to Very Heavy falls** over Assam & Meghalaya on 23rd; Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh on 22nd & 23rd and Nagaland on 22nd June.

- ❖ Isolated **heavy rainfall** also likely over Bihar on 22nd & 23rd; Jharkhand on 22nd; Gangetic West Bengal on 22nd & 25th; and Odisha during 22nd-26th with isolated **Very Heavy falls** over Odisha 23rd -25th June.

Northwest India:

- ❖ Light/moderate fairly widespread rainfall with isolated thunderstorm & lightning over Himachal Pradesh, Uttarakhand, Uttar Pradesh during 23rd-25th and over plains of Northwest India from 25th June.
- ❖ Isolated **heavy/very rainfall** very likely over Uttarakhand during 22nd-26th; Himachal Pradesh during 24th-26th; Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh on 25th & 26th June.

Central India:

- ❖ Light/moderate scattered to fairly widespread rainfall with isolated thunderstorm & lightning over the region during next 5 days.
- ❖ Isolated **heavy to very rainfall** very likely over Madhya Pradesh during 23rd-26th; Chhattisgarh during 22nd-26th and Vidarbha during 24th-26th June.

South India:

- ❖ Light/moderate scattered to fairly widespread rainfall with isolated thunderstorm & lightning very likely over the region during next 5 days.
- ❖ **Isolated Heavy rainfall** also likely over South Interior Karnataka and Rayalaseema on 22nd; Coastal Andhra Pradesh during 22nd-24th, Coastal Karnataka & Telangana during 22nd-26th and Interior Karnataka on 25th & 26th June.

West India:

- ❖ Light/moderate isolated to scattered rainfall with isolated thunderstorm & lightning very likely over Madhya Maharashtra, Marathwada, Gujarat Region during 23rd-25th June and increase thereafter.
- ❖ **Isolated Heavy rainfall** also likely over Konkan & Goa during 23rd-26th; over Madhya Maharashtra and Gujarat Region on 25th & 26th June.

Maximum Temperatures and Heat Wave warning (Graphics in Annexure III):

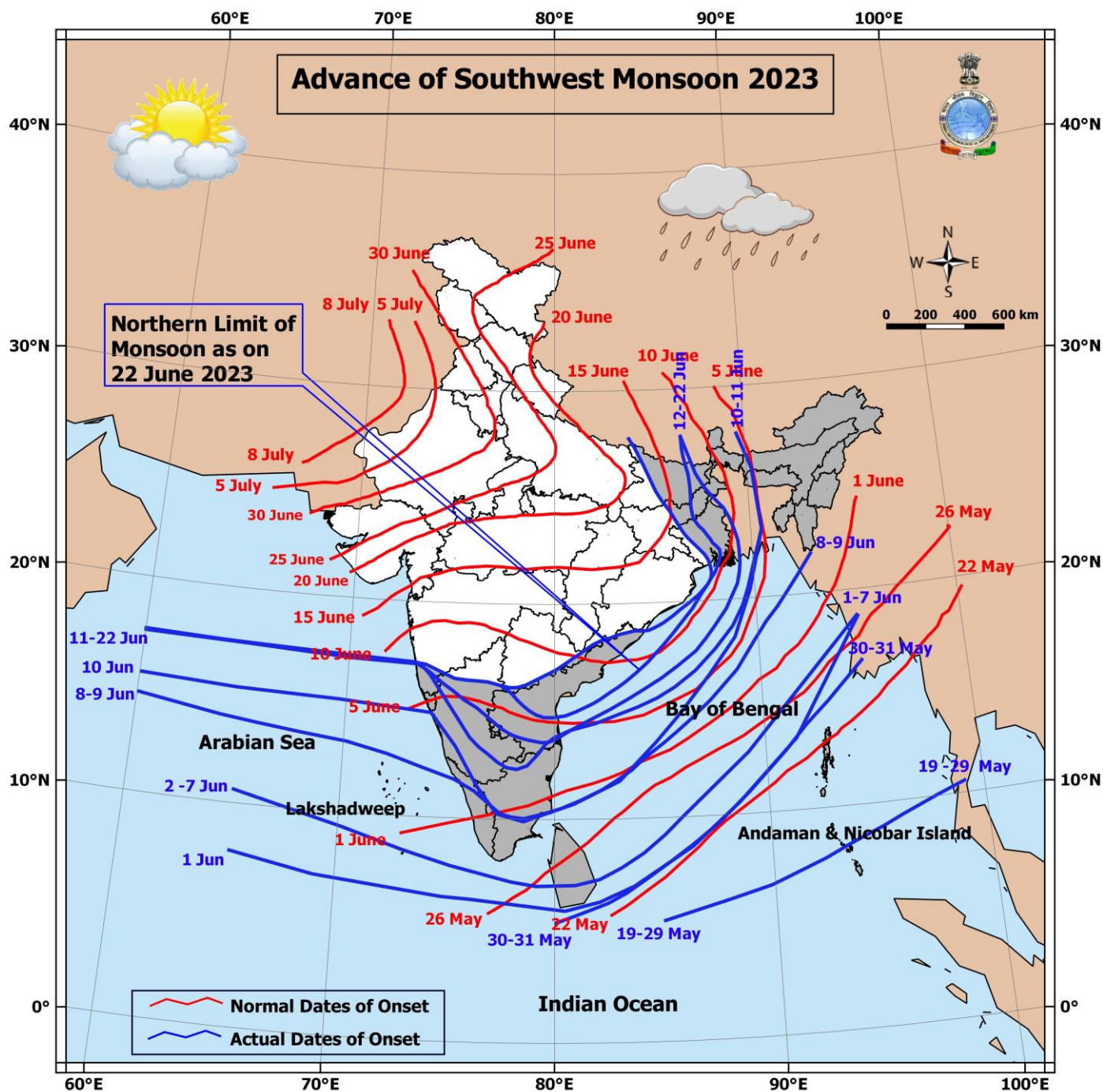
- ❖ Yesterday, Maximum Temperatures were in the range of 40-43°C over some parts of Chhattisgarh, Vidarbha, interior Odisha, East Uttar Pradesh, East Madhya Pradesh, Jharkhand. Above normal 6-8° C at some parts over Chhattisgarh, Vidarbha, interior Odisha; 4-6° C over Telangana, Jharkhand, southeast Madhya Pradesh, south Madhya Maharashtra and normal/below normal over rest parts of the country.
- ❖ Yesterday, **Heat Wave to severe heat wave conditions** prevailed over isolated pockets of East Madhya Pradesh, Chhattisgarh and Vidarbha and **heat wave conditions** prevailed in isolated pockets over Interior Odisha, East Uttar Pradesh and Jharkhand.
- ❖ **Heat Wave/Severe Heat Wave conditions** have been prevailing over Odisha, Jharkhand, Telangana & Coastal Andhra Pradesh since last 12-14 days and over East Uttar Pradesh, East Madhya Pradesh, Bihar, Chhattisgarh & Vidarbha since last 10-12 days.
- ❖ Fall by 3-5°C in maximum temperatures very likely over Northwest, Central and East India during next 5 days.
- ❖ **Heat Wave** conditions very likely to continue in isolated pockets over Vidarbha today and abatement thereafter.

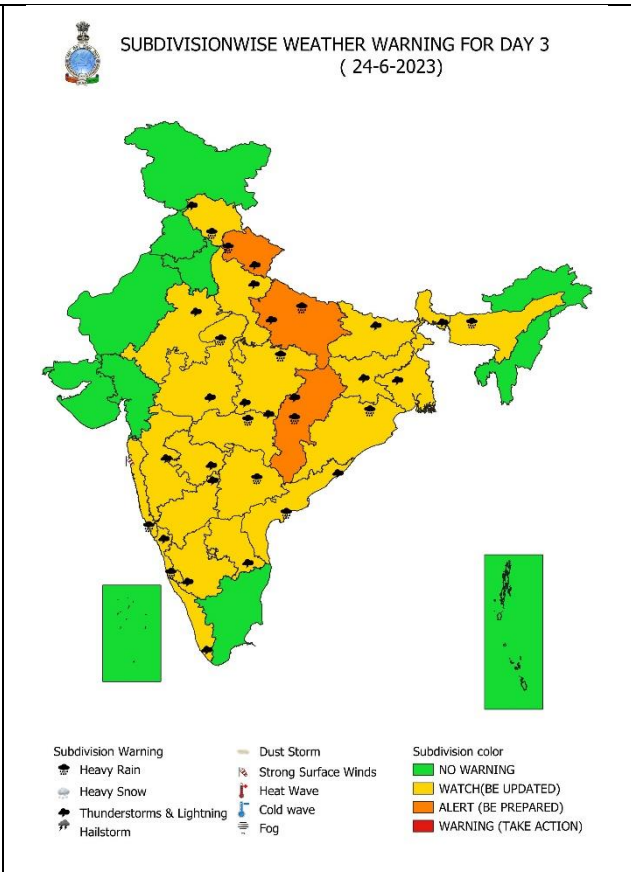
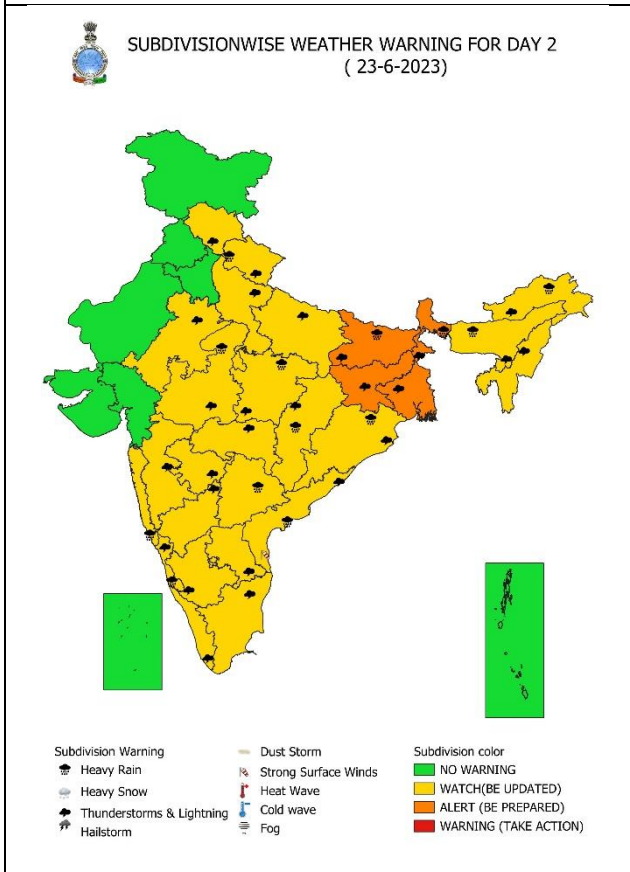
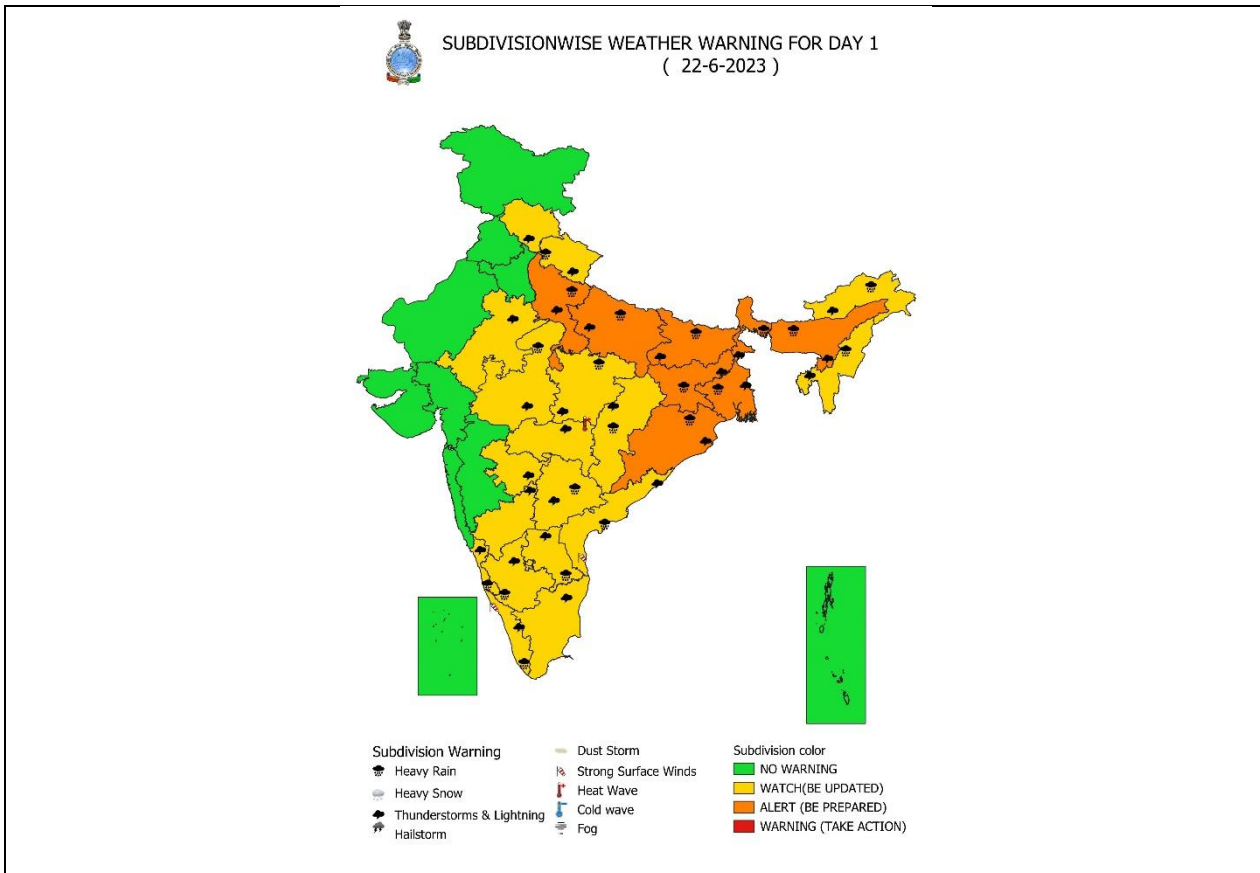
For more details kindly refer:

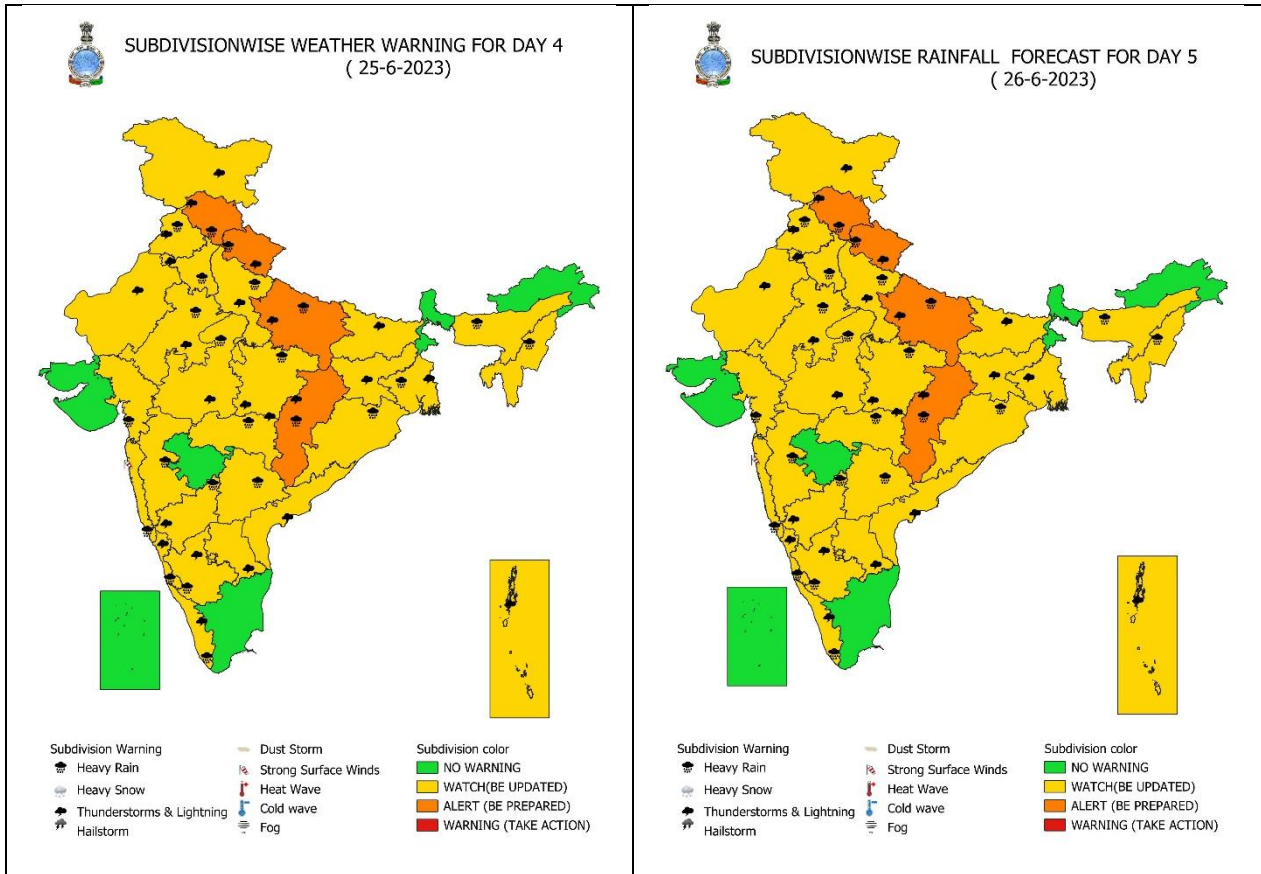
https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

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

- ❖ **Rainfall/thundershowers observed: at most places over** Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Coastal & South Interior Karnataka, Jharkhand; **at many places** over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, East Uttar Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, and Kerala & Mahe; **at a few places** over Andaman & Nicobar Islands, Odisha, Bihar, West Uttar Pradesh, Uttarakhand, East Madhya Pradesh, Vidarbha, Telangana, Lakshadweep; **at isolated places** over Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, West Madhya Pradesh, Gujarat Regio, Goa, Madhya Maharashtra, Marathwada, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rainfall with extremely heavy falls** at isolated places over west Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Uttar Pradesh, East Madhya Pradesh and **heavy rainfall** at isolated places over Arunachal Pradesh, Uttarakhand, Himachal Pradesh, West Madhya Pradesh, Chhattisgarh, Odisha, Gangetic West Bengal, Jharkhand, Tamil Nadu, Rayalaseema, Telangana and South Interior Karnataka.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today: **Assam & Meghalaya:** Mawkyrwat_arg (dist South West Khasi Hills) 37, Mawkyrwat (dist South West Khasi Hills) 31, Mawsynram (dist East Khasi Hills) 29, Bijni Arg (dist Chirang) 25, Manash Nh Xing (dist Barpeta) 21, Bahalpur (dist Dhubri) 20, Williamnagar (dist East Garo Hills) 20, Melabazar/matunga (dist Nalbari) 18, **Sub-Himalayan west Bengal & Sikkim:** Jalpaiguri-15, Cooch Behar-11; **Arunachal Pradesh:** Naharlagun (dist Papumpara) 8, Pasighat_ Aero (dist East Siang) 7, Itanagar (dist Papumpara) 7, **Gangetic West Bengal:** Bankura-8; **Odisha:** Jajpur, Keonjhar-7 each; Malkangiri, Sundargarh-6 each; **Himachal Pradesh:** Sirmaur-6; **Uttarakhand:** Bageshwar: Kapkot, Kama-11 each, Rudraprayag: Ukhimath-7, **Himachal Pradesh:** Mandi-7; **West Uttar Pradesh:** Mahoba-16, Jhansi-12, **East Uttar Pradesh:** Kanpur-12; Fatehpur-11, **East Madhya Pradesh:** Niwari (dist Niwari) 19, Orchha (dist Niwari) 15, Prithvipur (dist Niwari) 11, **West Madhya Pradesh:** Mhow (dist Indore) 7, Datia-aws (dist Datia) 6, **Chhattisgarh:** Bijapur (dist Bijapur) 9, Kusmi (dist Balrampur) 7, Sarangarh (dist Raigarh) 7, Nagari (dist Dhamtari) 7, **Jharkhand:** Hazaribagh-10; **Tamil Nadu:** Udagamandalam (dist Nilgiris) 7, **South Interior Karnataka:** Bargur (Tumakuru dt) 6, **Rayalaseema:** Dhone (dist Nandyal) 11, Kadiri (dist Sri Sathyasai District) 10, Amadagur (dist Sri Sathyasai District) 6, **Telangana:** Kalwakurthy (dist Nagarkurnool) 7, Ghanpur (dist Jangaon) 7.







Agromet advisories for rainfall, thunderstorms/gusty winds and heatwave likely over various parts of the country

- Make arrangements for draining out excess water from crop fields to avoid water stagnation in Uttar Pradesh, Uttarakhand, West Bengal, Sikkim, Odisha, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Tamil Nadu, Kerala, Coastal and South Interior Karnataka, Andhra Pradesh, Telangana and North Eastern States.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Apply light and frequent irrigation to standing crops in Vidarbha.

IMPACT & ACTION SUGGESTED due to very heavy rainfall over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya on 22nd June; Himachal Pradesh and Uttarakhand on 25th & 26th June.

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.

Impact expected and action suggested due to thunderstorm with lightning:

22nd & 23rd June: Bihar, Jharkhand, West Bengal & Sikkim, south Uttar Pradesh.

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity

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 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