

# All India Coordinated Research Project on Agrometeorology

## CRIDA, Santoshnagar, Hyderabad – 500 059

### Daily Crop Weather Information as on 06 August 2021

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### Significant Weather Features (IMD)

- The Low Pressure Area over central parts of north Madhya Pradesh with associated cyclonic circulation extending upto middle tropospheric level persists.
- The Monsoon trough at mean sea level now passes through Bikaner, Jaipur, centre of Low Pressure Area over central parts of north Madhya Pradesh & neighbourhood, Sidhi, Daltonganj, Purulia, Digha and thence southeastwards to northeast Bay of Bengal. It is likely to shift close to foot hills of the Himalayas by 10th August.
- A cyclonic circulation lies over Southeast Bangladesh extending upto middle tropospheric level.
- Under the influence of the above systems:
  - (i) Fairly widespread/widespread rainfall very likely over Madhya Pradesh during next 5 days. Isolated heavy to very heavy falls very likely over and West Madhya Pradesh on 6th August, with reduction thereafter.
  - (ii) Fairly widespread/widespread rainfall with isolated heavy falls very likely over West Bengal today on 6th; Jharkhand on 10th and Bihar during 8th-10th August, 2021.
  - (iii) Fairly widespread/widespread rainfall with isolated heavy falls very likely over northeastern states till 9th with enhanced rainfall activity from 10th August. Isolated heavy rainfall likely over Assam & Meghalaya during next 4 days and isolated heavy to very heavy thereafter from 10th August over the region.
  - (iv) Scattered to fairly widespread rainfall over Uttarakhand and Uttar Pradesh during next 5 days with isolated heavy rainfall over these areas from 8th August. Isolated to scattered rainfall very likely over Rajasthan, Punjab, Haryana and Jammu & Kashmir till 10th August with isolated heavy to very heavy rainfall also likely over East Rajasthan on 6th and heavy rainfall on 7th August.
- Reduced rainfall activity likely to continue over Peninsular India and adjoining east Central India (except Odisha), Maharashtra and Gujarat state during next 4-5 days.
- The images showing the latest satellite picture in the figure. 1.

## **Main Weather Observations (IMD)**

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Vidarbha, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Karnataka and Kerala & Mahe; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Punjab, Madhya Pradesh, Gangetic West Bengal, Madhya Maharashtra, Interior Karnataka and Lakshadweep; at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, Chhattisgarh, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Telangana and Rayalaseema and at isolated places over East Uttar Pradesh, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Very Heavy Rainfall at isolated places over East Rajasthan, West Madhya Pradesh and Coastal Karnataka and Heavy Rainfall at isolated places over Uttarakhand, West Rajasthan, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, South Interior Karnataka and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Himachal Pradesh, East Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Odisha, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 05-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh and Coastal Andhra Pradesh & Yanam; at isolated places over Odisha and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Telangana, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and West Rajasthan; at many places over Himachal Pradesh, Saurashtra & Kutch and Konkan & Goa; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Gujarat Region, East Uttar Pradesh, Gangetic West Bengal, Marathwada, Kerala & Mahe and Bihar and at isolated places over East Rajasthan. They were below normal (-1.6°C to -3.0°C) at many places over West Madhya Pradesh; at a few places over Haryana, Chandigarh & Delhi and East Madhya Pradesh and near normal over

rest parts of the country. Yesterday, the highest maximum temperature of 40.7°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 06-08-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim, Gujarat Region and Coastal Andhra Pradesh & Yanam; at a few places over Konkan & Goa; at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Rajasthan, Odisha, Arunachal Pradesh, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands. They are below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over Punjab, Madhya Pradesh and Jharkhand and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.0°C was reported at Narsinghpur (East Madhya Pradesh).

### **Weather Warning during the next 5 days (IMD)**

- 06 August (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over East Rajasthan, West Madhya Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and Heavy Rainfall at isolated places over East Madhya Pradesh, south Chhattisgarh, Gangetic West Bengal, Odisha, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 45-55 kmph gusting to 65 kmph) very likely over Southwest and Westcentral Arabian Sea; (speed 40-50 kmph gusting to 60 kmph) over Eastcentral Arabian Sea and Squally Weather (speed 40-50 kmph gusting to 60 kmph) over Northeast and Eastcentral Bay of Bengal. Fishermen are advised not to venture into these areas.
- 07 August (Day 2): Heavy Rainfall very likely at isolated places over West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, Odisha and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 45-55 kmph gusting to 65 kmph) very likely over Southwest and Westcentral Arabian Sea; (speed 40-50 kmph gusting to 60 kmph) over Eastcentral Arabian Sea and Squally Weather (speed 40-50 kmph gusting to 60 kmph) over Northeast and Eastcentral Bay of Bengal. Fishermen are advised not to venture into these areas.

- 08 August (Day 3): Heavy Rainfall very likely at isolated places over Himachal Pradesh, Uttarakhand, Bihar, Uttar Pradesh, West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Bihar and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 45-55 kmph gusting to 65 kmph) very likely over Southwest and Westcentral Arabian Sea; (speed 40-50 kmph gusting to 60 kmph) over Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 09 August (Day 4): Heavy Rainfall likely at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning likely at isolated places over Bihar and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 45-55 kmph gusting to 65 kmph) likely over Southwest and Westcentral Arabian Sea; (speed 40-50 kmph gusting to 60 kmph) over Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 10 August (Day 5): Heavy to Very Heavy Rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and Heavy Rainfall at isolated places over East Uttar Pradesh, Bihar, Jharkhand, Andaman & Nicobar Islands, Arunachal Pradesh, and Nagaland, Manipur, Mizoram & Tripura. Strong winds (speed 45-55 kmph gusting to 65 kmph) likely over Southwest and Westcentral Arabian Sea; (speed 40-50 kmph gusting to 60 kmph) over Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 06 Aug to 14 Aug 2021 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### Western U.P

#### Weather condition:

Dense Cloud coverage and light to moderate rainfall may be appeared from 04 to 8 August, therefore high humid condition might be prevailed due to 47.1 mm cumulative rainfall. Maximum and minimum temperature may be 1-2 0C higher to its normal, due to cloudy condition. South -easterly winds may be prevailed with the speed of 8.5 to 18.7 km/hr which is 4-6 km/hr above to its normal during this week as per forecast.

#### Contingency measure:

- Paddy:Short duration paddy seedlings should be planted up to 10 August, treat seedlings through Tricho-derma before transplanting. Weeding should be taken up to 45 days of transplanting.
- Maize:Top dressing of 1/4 urea at Knee high stage during clear sky condition. Drain out excess water from the field
- Sorghum :Weeding should be done and plant population should be maintained by thinning. Drain out excess water from the field.
- Pearl millet : Sowing of pearl millet composite varieties such as ICMB-155, WCC-75, ICTP-8203, Raj-171, NDFB-3 and hybrid varieties such as Pusa-322, Pusa-23 and ICMH-451 is more suitable at this time. With 4.0 to 5.0 kg/ha treated seed. Drain out excess water from the field.
- Pigeonpea:Sowing of long duration varieties seed such as Bahar, Amar, Narendra Arhar-1, Azad, Pusha-9 and MA-6 treated with Fungicide, insecticide and after that Rhizobium culture. Used 2.0 Q/ha Zipsum at the time of final preparation of field. Drain out excess water from the field.
- Black gram: Sowing should be done with varieties as Ultra, Pant U-35, Narendra U-1, Pant U-30, Azad U-2, Shekar-1, Shekar-2, Azad U-3 , WBU-108, Shekar-3 and Pant U-31 during clear sky. Drain out excess water from the field.
- Green gram: Sowing of green gram. Suitable varieties Pant moong-1, 3, 4, Narendra moong-1, 4, PDM-11, Malveeya jyoti, Samrat, Malveeya janchetna, Malveeya janpriya, Malveeya jagrati,Asha, Meha, MH-2-15,and TM-9937 should be done. Drain out excess water from the field.
- Ground nut :Weeding and earthing should be taken up at proper moisture.
- Brinjal / Chilies:Pick up mature fruits on standing crop and transplanting of new seedlings should be completed as early as possible. Drain out excess water from the field.
- Leafy Vegetable: Cutting and marketing as per need. Drain out excess water from

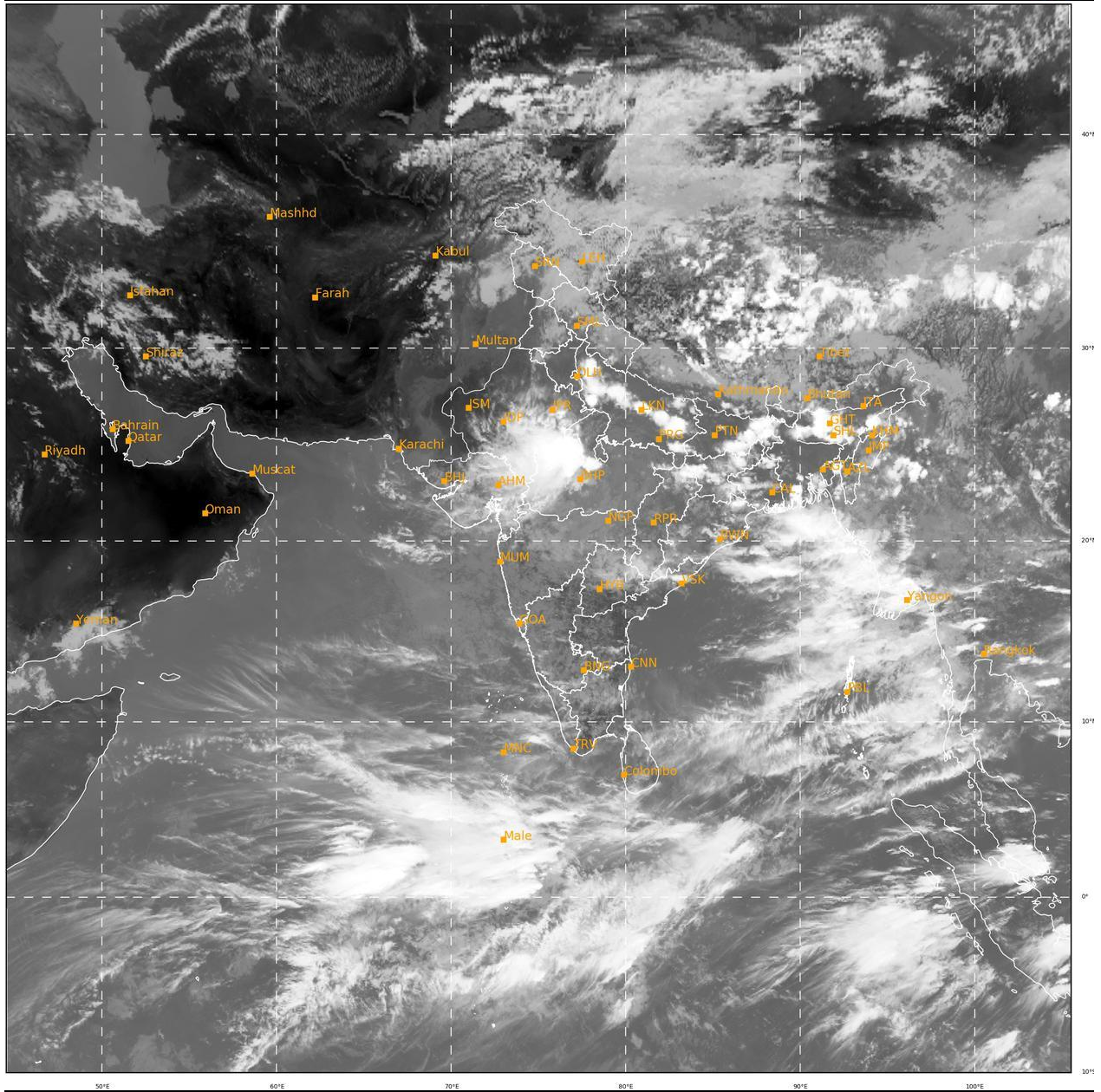
the field.

- Jowar / Maize Mucchari + Lobia + Moongbeen : Sowing of Jowar varieties as Pusa chari-23, SSG-98-8MFSH-3, H Pant-5 and MP chari @ 30-40 kg seeds /ha. With lobia varieties as Rashayan zoint , UPC-5286, UPC-5287, NP-3, Bundhel lobia-2, UPC-9202 and UPC-4200 with 15-20 kg seed for mixed cropping or 40 kg seed sown for alone. Used maize hybrid as Ganga-2, 5,7 or composite as Kishan , African toll and Vijay or indigenous variety Type-41 for fodder.
- Animal :Bathing should be taken up at morning and evening before milking. Drinking water should be given thrice a day. Balanced diet should be given for milch animal and Vaccination against Foot and Mouth disease and if need concern to near Veterinary hospital.



SAT : INSAT-3D IMG  
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LIC Mercator

06-08-2021/(0800 to 0827) GMT  
06-08-2021/(1330 to 1357) IST

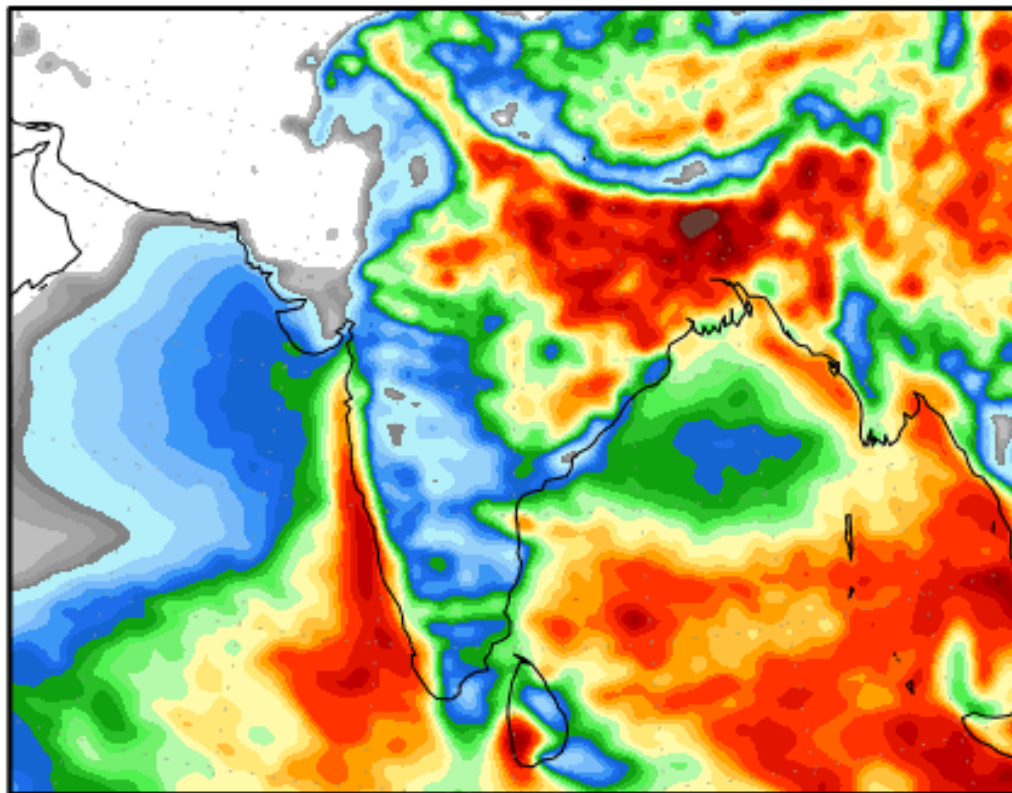


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IMD,DELHI

Figure: 1. Latest available satellite picture as on 06 Aug 2021 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 06 Aug to 14 Aug 2021 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*