

**All India Coordinated Research Project on Agrometeorology**  
**CRIDA, Santoshnagar, Hyderabad – 500 059**

**Daily Crop Weather Information as on 02 August 2021**

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

**Significant Weather Features (IMD)**

- The Well Marked Low Pressure Area over southeastern parts of West Uttar Pradesh & neighbourhood now lies over southwest Uttar Pradesh & adjoining northwest Madhya Pradesh. The associated cyclonic circulation extends upto 7.6 km above mean sea level. It is likely to move westwards gradually during next 3 days.
- The monsoon trough has shifted slightly north of its normal position.
- Under the influence of the above systems:
  - (i) Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Madhya Pradesh during 2nd- 6th August. Isolated extremely heavy falls also very likely over West Madhya Pradesh on 2nd and 3rd August, 2021 with reduction from 4th August.
  - (ii) Widespread rainfall with isolated heavy to very heavy falls very likely to continue over East Rajasthan during 2nd-6th August. Scattered heavy to very heavy falls with isolated extremely heavy falls likely over East Rajasthan today, the 2nd August and then isolated heavy to very heavy rainfall with isolated extremely falls on 3rd August with reduction from 4th August. Scattered rainfall with isolated heavy rainfall also very likely over West Rajasthan during 2nd - 4th August.
  - (iii) Current spell of scattered to fairly widespread rainfall activity very likely to continue over rest parts of North India with isolated heavy falls very likely over Uttarakhand and West Uttar Pradesh during next 5 days. Isolated heavy falls likely over Haryana during next 3 days and Himachal Pradesh during 4th-5th August.
- Reduced rainfall activity likely to continue over Peninsular India and adjoining east Central India, 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 East Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Coastal Karnataka; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Haryana, Chandigarh, & Delhi, West Uttar Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh, Kerala & Mahe and Lakshadweep; at a few places over Himachal Pradesh, East Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Gujarat region, Madhya Maharashtra, Interior Karnataka and at isolated places over Punjab, West Rajasthan, Jharkhand, Gangetic West Bengal, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Telangana.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely Heavy Rainfall at isolated places over Madhya Pradesh and East Rajasthan; Very Heavy Rainfall at isolated places over Haryana, West Uttar Pradesh and Assam & Meghalaya and Heavy Rainfall at isolated places over Sub-Himalayan West Bengal, Bihar and East Uttar Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, East Uttar Pradesh and East Rajasthan.
- Maximum Temperature Departures as on 01-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Coastal Karnataka; above normal (1.6°C to 3.1°C) at many places over Himachal Pradesh, Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; at a few places over Arunachal Pradesh, West Bengal & Sikkim, Uttarakhand, Telangana, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands and at isolated places over Assam & Meghalaya, Bihar and South Interior Karnataka. They were markedly below normal (-5.1°C to Less) at many places over West Rajasthan and at isolated places over Madhya Pradesh and Nagaland, Manipur, Mizoram & Tripura; appreciably below normal (-3.1°C to -5.0°C) at most places over Haryana, Chandigarh & Delhi, at a few places over East Uttar Pradesh and below normal (-1.6°C to -3.0°C) at a few places over Chhattisgarh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad West Rajasthan,

Gujarat Region, Madhya Maharashtra and Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.3°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 02-08-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Coastal Andhra Pradesh & Yanam; at a few places over Kerala & Mahe; at isolated places over Punjab and Gangetic West Bengal. They are below normal (-1.6°C to -3.0°C) at a few places over Madhya Pradesh; at isolated places over East Rajasthan, East Uttar Pradesh, Jharkhand, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C is reported at Khargone & Narsinghpur (Madhya Pradesh).

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

- 02 August (Day 1): Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over East Rajasthan; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over West Madhya Pradesh. Heavy to Very Heavy Rainfall at isolated places over southwest Uttar Pradesh, East Madhya Pradesh and Assam & Meghalaya and Heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, West Rajasthan, Bihar, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest & Westcentral Arabian Sea and (speed 40-50 kmph gusting to 60 kmph) over North Arabian Sea along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 03 August (Day 2): Heavy to Very Heavy Rainfall with extremely heavy falls at isolated places very likely over East Rajasthan and West Madhya Pradesh and Heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Bihar, SubHimalayan West Bengal & Sikkim, Assam & Meghalaya and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Bihar. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest & Westcentral Arabian Sea and (speed 40-50 kmph gusting to 60 kmph) over North Arabian Sea along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 04 August (Day 3): Heavy to Very Heavy Rainfall at isolated places very likely over East Rajasthan and West Madhya Pradesh and Heavy Rainfall at isolated

places likely over Himachal Pradesh, Uttar Pradesh, Uttarakhand, Haryana, West Rajasthan, West Bengal & Sikkim, Odisha and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest & Westcentral Arabian Sea and (speed 40-50 kmph gusting to 60 kmph) over North Arabian Sea along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.

- 05 August (Day 4): Heavy Rainfall at isolated places likely over Himachal Pradesh, Uttar Pradesh, Uttarakhand, Punjab, East Rajasthan, West Madhya Pradesh and Gangetic West Bengal. Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 06 August (Day 5): Heavy Rainfall at isolated places likely over Uttar Pradesh, Uttarakhand, East Rajasthan, West Madhya Pradesh, and Andaman & Nicobar Islands. Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 02 Aug to 10 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)

### **Kerala**

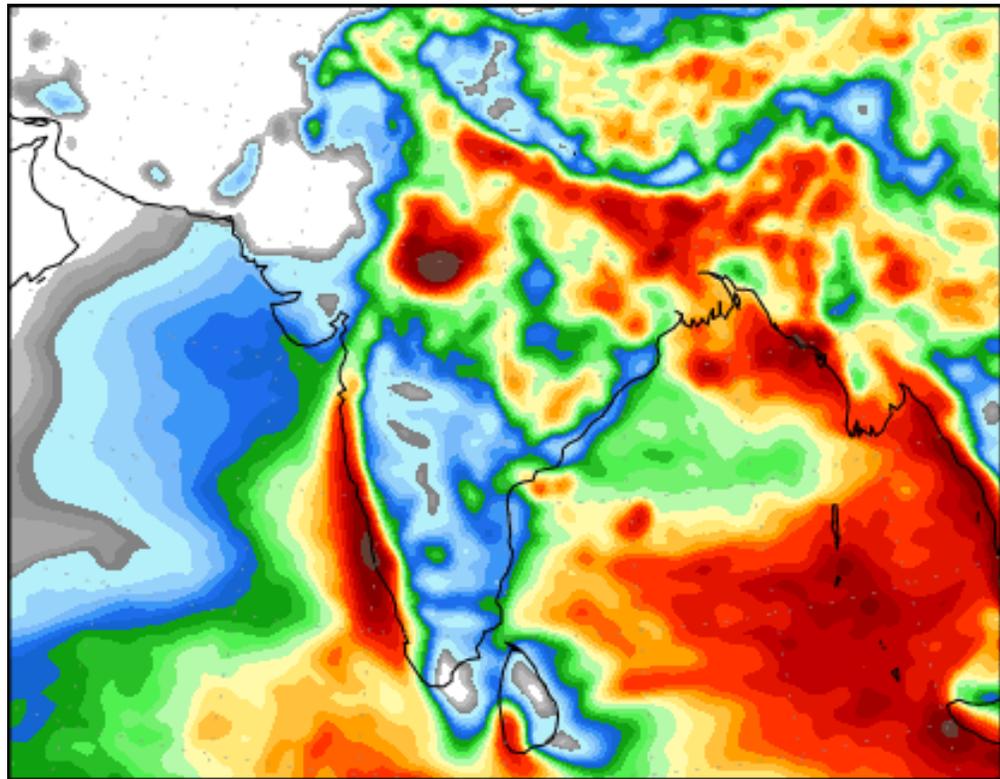
#### **Weather condition:**

In Vellanikkara, the maximum temperature ranges from 28.5 to 31.0 Deg C, minimum temperature ranges from 23.1 to 24.3 Deg C. Morning relative humidity ranges from 091% to 099% and afternoon relative humidity ranges from 070% to 090%. Wind speed ranges from 0.9 to 3.0 km/h. Evaporation ranges from 1.6 to 2.8 mm. Sunshine hours range from 0.0 to 5.9 hours. 5 cm morning soil temperature ranges from 25.0 to 26.5 Deg C and afternoon soil temperature ranges from 28.9 to 32.7 Deg C.

#### **Contingency measure:**

- Paddy (virippu) Tillering stage: Bacterial Leaf blight: To control and prevent Bacterial Leaf blight in paddy, dissolve 20 g of cow dung in one litre of water and spray the supernatant liquid by mixing with 20g of pseudomonas in one litre of water.
- Banana: Sigatoka disease: Ensure drainage facilities in low land banana plantations. As a prophylactic measure spray 1% Bordeaux mixture. If Sigatoka attack is seen, spray one milli liter hexaconazole or one milli liter propiconazole per one liter of water on both the surface of the leaf. Rhizome rot- Due to the increase in rainfall, there is a chance of Rhizome rot in banana. As a precaution, pour 3 litre of pseudomonas solution (20 gm per 1 litre) at the basin. Nutmeg- Leaf fall- As a precautionary measure to manage leaf fall during rainy season, spray 1% bordeaux mixture
- Ginger and Turmeric: Soft rot: During rainy season, apply mixture of 15 gram bleaching powder and 250 gram lime in to the basin of three meter square bed to avoid the spreading of soft rot in ginger and turmeric.
- Vegetables (Cowpea): Anthracnose disease: During rainy season, there is a chance of Anthracnose disease in Cowpea. As a prophylactic measure, apply 1% Bordeaux mixture or spray pseudomonas 20 gm per litre.
- Animal Husbandry: Avoid water logging in the cattle shed premises to prevent mosquito breeding. If required apply mosquito / fly repellent on the animal body and in the cattle shed.





**Figure:2. Precipitation forecast for 02 Aug to 10 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.*