

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The well marked Low Pressure Area has weakened and now lies as a low pressure area over the same areas of northwest Madhya Pradesh & neighbourhood. The associated cyclonic circulation now extends upto 5.8 km above mean sea level. It is likely to weaken during next 24 hours.
- A cyclonic circulation lies over north Bay of Bengal & neighbourhood and extends upto mid-tropospheric levels.
- The monsoon trough runs along its normal position. It passes through Ganganagar, Karnaul, centre of Low Pressure area over northwest Madhya Pradesh & neighbourhood, Varanasi, Patna, Shanti Niketan and thence southeastwards to Northeast Bay of Bengal. Its eastern end likely to shift north of its normal position from 7th Aug.
- Under the influence of the above systems:
 - (i) Fairly widespread/widespread rainfall very likely over East Rajasthan and West Madhya Pradesh during next 5 days. Isolated heavy to very heavy falls very likely over East Rajasthan and West Madhya Pradesh on 4th and 5th August, with further reduction thereafter.
 - (ii) 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 on 4th and 5th Aug.
 - (iii) Fairly widespread/widespread rainfall with isolated heavy to very heavy falls very likely over Bihar, Jharkhand, Odisha and West Bengal on 4th and 5th Aug.
- Enhanced rainfall activity likely over northeastern states from 7th Aug onward with isolated heavy to very heavy falls very likely over these areas on 7th and 8th Aug.
- 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 West Madhya Pradesh, Jharkhand, West Bengal & Sikkim, Andaman & Nicobar Islands, Konkan & Goa, Coastal Karnataka & South Interior Karnataka and Kerala & Mahe; at many places over Himachal Pradesh, Uttarakhand, Punjab, Bihar, Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka and Lakshadweep; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Haryana & Chandigarh, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region and Madhya Maharashtra and at isolated places over East Uttar Pradesh, West Rajasthan, Odisha, Marathwada, Coastal Andhra Pradesh, Telangana, Rayalseema and Tamilnadu, Puducherry & Karaikal.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely heavy rainfall at isolated places over East Rajasthan and very heavy rainfall at isolated places over West Madhya Pradesh, Jharkhand, Coastal & South Interior Karnataka and Gangetic West Bengal and heavy rainfall at isolated places over Haryana, Bihar, Odisha and Madhya Maharashtra.
- Thunderstorm observed (from 1730 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Rajasthan, Bihar, Gangetic west Bengal, Odisha, Assam & Meghalaya and Arunachal Pradesh.
- Maximum Temperature Departures as on 03-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Assam & Meghalaya and south Tamilnadu; above normal (1.6°C to 3.0°C) at most places over Coastal Andhra Pradesh & Yanam and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, West Bengal & Sikkim, coastal Odisha, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe and rest Tamilnadu, Puducherry & Karaikal. They were Markedly below normal (-5.0°C or less) at isolated places over East Rajasthan and West Madhya Pradesh; appreciably below normal (- 3.0°C -5.0°C) at isolated places over rest West Madhya Pradesh, East Madhya Pradesh and East Uttar Pradesh and below normal (-1.6°C to -3.0°C) at isolated places over Haryana, Chandigarh & Delhi and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.2°C was reported at Madurai (Tamilnadu).
- Minimum Temperature Departures as on 04-08-2021: 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 Telangana and Rayalaseema; at isolated places over Odisha, East Rajasthan, Madhya Maharashtra, Andaman & Nicobar Islands, north Tamil Nadu and Saurashtra & Kutch. They are below normal (-1.6°C to -3.0°C) at isolated places over Madhya Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 17.7°C reported at Fatehgarh (East Uttar Pradesh).

Weather Warning during the next 5 days (IMD)

- 04 August (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over East Rajasthan, West Madhya Pradesh, Jharkhand, and Gangetic West Bengal and Heavy Rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Bihar, Odisha, ghat areas of Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya, and Nagaland, Manipur, Mizoram & Tripura. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest and Westcentral Arabian Sea; (speed 40-50 kmph gusting to 60 kmph) over north Arabian Sea along & off Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- 05 August (Day 2): Heavy to Very Heavy Rainfall very likely at isolated places over East Rajasthan and West Madhya Pradesh and Heavy Rainfall at isolated places over Uttarakhand, Punjab, Haryana, West Uttar Pradesh, Jharkhand, Odisha, Gangetic West Bengal, Assam & Meghalaya, and Nagaland, Manipur, Mizoram & Tripura, ghat areas of Madhya Maharashtra, Konkan & Goa and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim and Odisha. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest and Westcentral Arabian Sea; (speed 40-50 kmph gusting to 60 kmph) over north Arabian Sea along & off Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- 06 August (Day 3): Heavy Rainfall very likely at isolated places over Uttar Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Coastal Karnataka and Kerala & Mahe. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 07 August (Day 4): Heavy to Very Heavy Rainfall likely at isolated places over Assam & Meghalaya and Heavy Rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and ghat areas of Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 08 August (Day 5): Heavy to Very Heavy Rainfall likely at isolated places over Assam & Meghalaya and Heavy Rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Bihar, Sub-Himalayan West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and ghat areas of Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 04 Aug to 12 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)

Marathwada

Weather condition:

From 23.07.2021 to 29.07.2021 during this week Weather condition of Parbhani center total 9.9 mm rainfall was recorded. The Maximum temperature was range from 29.0 to 32.0 0C and minimum temperature range from 20.5 to 22.5 0C. Relative humidity (RH-I) ranged between 83-95% and relative humidity (RH-II) recorded was 55-82% The wind speed varied 3.0 to 6.9 km/hr.

Contingency measure:

- Soybean: Remove the excess amount of water stagnated in the Soybean crop where excess amount of rainfall was received by proper drainage. For management of yellowing of leaves (Chlorosis) in soybean crop precaution should be taken that the field should be in wapsa condition. Take a spray of 0.5 to 1 % Ferrous sulphate on the leaves of crop or EDTA Chelated mix Micronutrient Grade (II) @ 20 g per 10 liter of water during clear weather & wapsa condition. For management of stem fly & leaf eating caterpillar in soybean take a spray of 5% NSKE or Ethion 50% @ 15 ml per 10 liter of water / 300 ml per acre or Thiamethoxam 12.6% + Lambada Cyhalothrin 9.5% @ 2.5 ml per 10 liter of water / 50 ml per acre or Chlorantraniliprole 18.5% @ 3 ml per 10 liter of water / 60 ml per acre during clear weather & wapsa condition.
- Kharif Sorghum: Remove the excess amount of water stagnated in the Kharif sorghum crop where excess amount of rainfall was received by proper drainage.
- Parle millet: Remove the excess amount of water stagnated in the Pearl millet crop where excess amount of rainfall was received by proper drainage.
- Sugarcane: Remove the excess amount of water stagnated in the Sugarcane crop where excess amount of rainfall was received by proper drainage.
- Cotton: Top dressing of Nitrogen @ 60 Kg / hectare for irrigated and 36 Kg / hectare for rainfed cotton should be applied one month after sowing. Intercultural operation should be applied for weed management in cotton crop. Due to past rainfall current humid and cloudy weather sucking pests may observe in cotton, for management of sucking pest in cotton crop take a spray of 5 % NSKE or Acetamiprid 20% @30 gm or Thiamethoxam 25 % @ 40 gm or Flonicamid 50% @ 60 gm per acre.
- Pigeon pea: Intercultural operation should be done for weed management in Pigeonpea crop.
- Black/Green gram: Due to past rainfall current humid and cloudy weather

aphids may observe in Black gram / Green gram For management of aphids in black gram / green gram crop take a spray of 5% NSKE or Dimethoate 30% @ 240 ml per acre during clear weather condition.

- Ground nut: For weed management in groundnut two hoeing and one hand weeding should be done three to six week after sowing.
- Maize: For management of fall armyworm in early sown maize crop take a spray of Thiamethoxam 12.6 % + Lambda ? cyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 liter of water.
- Citrus: Remove the excess amount of water stagnated in the Citrus orchard where excess amount of rainfall was received by proper drainage. If infestation of mites is observed in citrus orchard, for management take a spray of Dicofol 18.5 EC @ 2 ml or Propargite 20 EC @ 1 ml or Ethion 20 EC @ 2 ml or water soluble Sulphur @ 3 g per liter of water during clear weather & wapsa condition. As per requirement take another spray after an interval of 15 days.
- Pomogranate: Remove the excess amount of water stagnated in the Pomegranate orchard where excess amount of rainfall was received by proper drainage.
- Banana: Weed management should be done in newly planted Banana orchard.
- Mango: Weed management should be done in newly planted mango orchard.
- Grape: Thinning of leaves and pinching should be done in grape orchard. Downy mildew may observed in grape orchard for management take a spray of Potassium Salt of active Phosphorus 4 gm + Mancozeb 2 gm per liter of water.
- Vegetable: Intercultural operation should be done in newly planted Vegetable crops for weed management. Due to past rainfall current humid and cloudy weather early blight may observe in Tomato For management of early blight in Tomato take a spray of Azoxystrobin 18.2% + Difenoconazole 11.4% @ 10 ml + 5 ml Sticker @ per 10 liter of water.
- Floriculture: Intercultural operation should be done in newly planted Floriculture crops for weed management. Harvesting of Rose and Tuberose flowers should be done.
- Animal: During rainy season on the external surfaces of livestock if woond occurs, their occurs delay in the healing due to magguts deposited by common house flies and other flies on such woond three oils Neem oil + Karanj oil + Turpentine oil mixed in equal proportion and shall the applied on woonds.

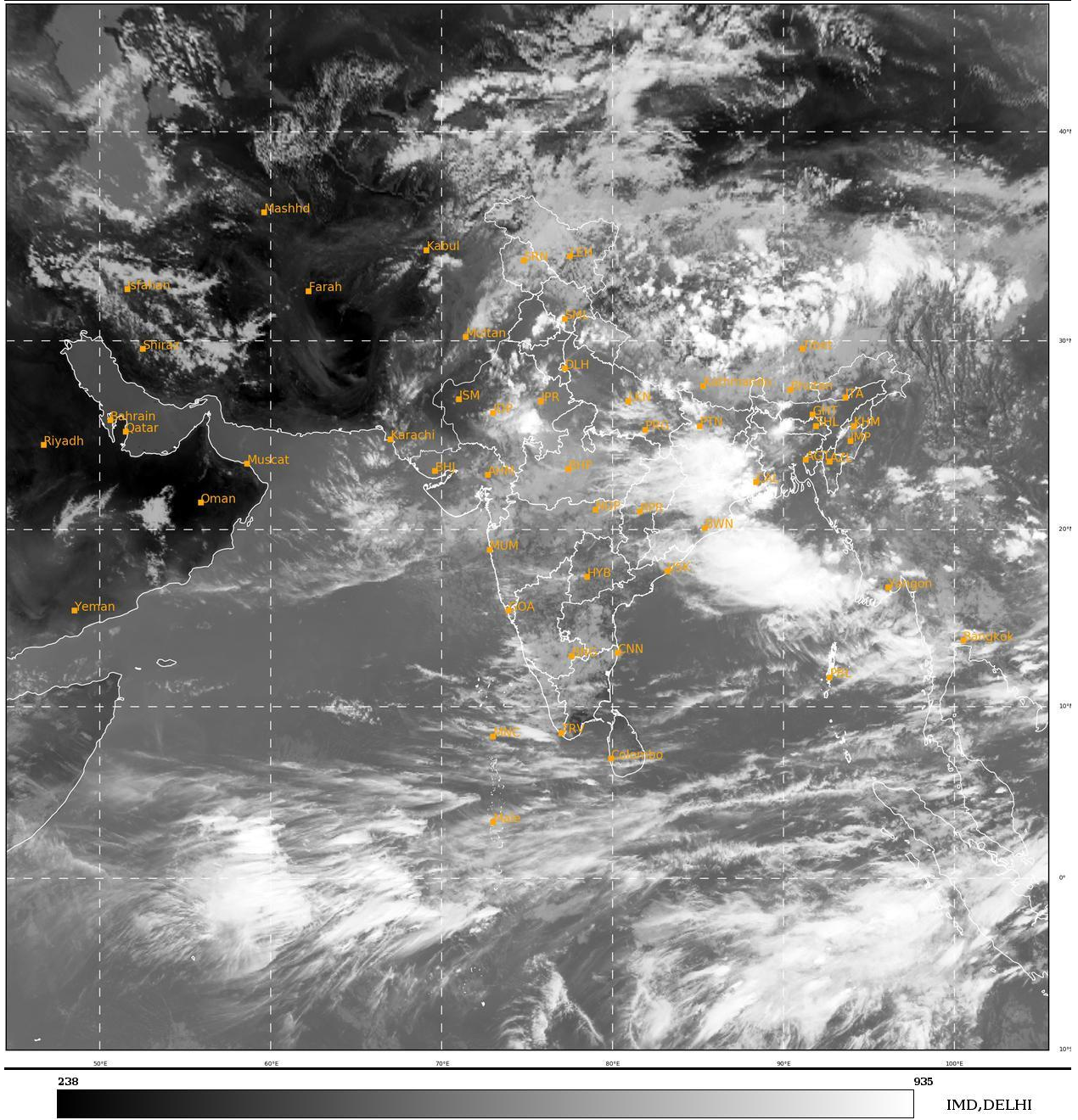


Figure: 1. Latest available satellite picture as on 04 Aug 2021 at 1427 Hrs (IST). (Source: IMD).

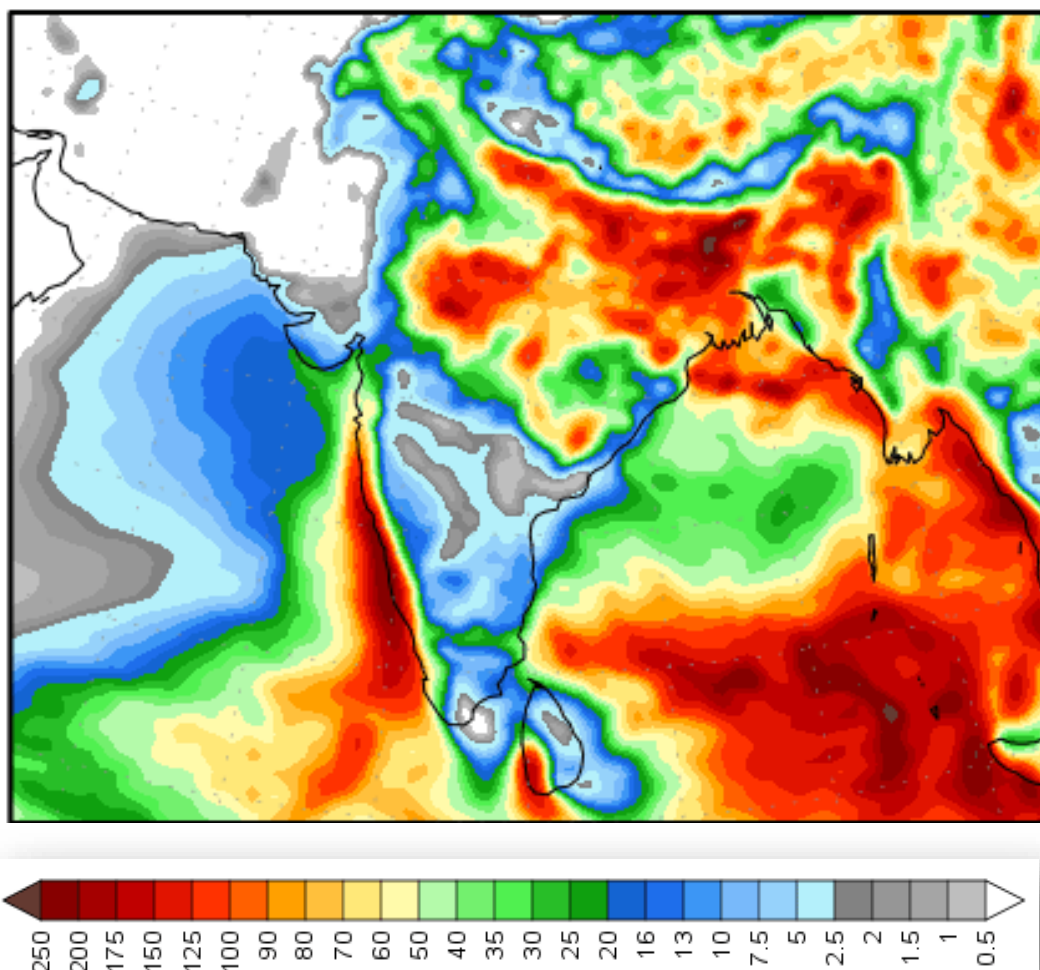


Figure:2. Precipitation forecast for 04 Aug to 12 Aug 2021 (Source: NOAA NCEP).

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