

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 03 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Well Marked Low Pressure Area over northwest Madhya Pradesh & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level persists. It is likely to be practically stationary over same area during next 24 hours and weaken gradually thereafter.
- The western end of the monsoon trough is south of its normal position and is likely to shift northwards to north of its normal position during next 48 hours. Its eastern ends continues to run towards Arunachal Pradesh across North Bangladesh which is also very likely to remain north of its normal position during 4-5 days.
- 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 with isolated extremely heavy rainfall very likely to continue over East Rajasthan and West Madhya Pradesh today, the 03rd August, with reduction thereafter. It is likely to be isolated heavy to very heavy over these areas on 04th & 05th August.
 - (ii) Scattered rainfall with isolated heavy rainfall also very likely over West Rajasthan on 03rd 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 except Punjab where isolated light to moderate rain is likely. Isolated heavy falls likely over Haryana and Himachal Pradesh during next 03 days.
- 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, East Madhya Pradesh, Vidarbha, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Coastal & North Interior Karnataka and Andaman & Nicobar Islands; at many places over Assam & Meghalaya, West Bengal & Sikkim, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Chhattisgarh, Jharkhand, , Gujarat Region; at a few places over Arunachal Pradesh, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Odisha, East Madhya Pradesh, Madhya Maharashtra, Saurashtra & Kutch and Bihar and at isolated places over Punjab, West Rajasthan, Telangana, Marathwada, south Interior Karnataka, Kerala & Mahe, Lakshadweep 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 West Madhya Pradesh; Very Heavy Rainfall at isolated places over East Madhya Pradesh, West Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura; Heavy Rainfall at isolated places over Bihar, Jammu division, Madhya Maharashtra, Assam & Meghalaya, Andaman & Nicobar Islands, Haryana & Chandigarh and Gangetic West Bengal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal, Bihar, Rajasthan and Assam & Meghalaya.
- Maximum Temperature Departures as on 02-08-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Coastal Andhra Pradesh & Yanam; at many places over Coastal Karnataka; at a few places over Konkan & Goa, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Telangana, Odisha, Gangetic West Bengal and Assam & Meghalaya and at isolated places over Himachal Pradesh, Uttarakhand and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at many places over East Rajasthan and West Madhya Pradesh; at a few places over East Madhya Pradesh and below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over Uttar Pradesh, Saurashtra & Kutch and Marathwada and at isolated places over Vidarbha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.2°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 03-08-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Punjab, Uttarakhand and Sub-Himalayan West Bengal & Sikkim; at a few places over Coastal Arunachal Pradesh and Andhra Pradesh & Yanam; at isolated places over Assam & Meghalaya, Himachal Pradesh, Haryana, Chandigarh & Delhi, Odisha, Gangetic West Bengal and Andaman & Nicobar Islands . They are below normal (-1.6°C to -3.0°C) at a few places over East Rajasthan, Vidarbha and Coastal Karnataka; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Jharkhand, South Interior Karnataka, West Rajasthan, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. today, the lowest minimum temperature of 18.8°C is reported at Khargone & Narsinghpur (Madhya Pradesh).

Weather Warning during the next 5 days (IMD)

- 03 August (Day 1): Heavy to Very Heavy Rainfall with extremely heavy falls at isolated places very likely over East Rajasthan and West Madhya Pradesh; Heavy to very heavy rainfall at isolated places over West Uttar Pradesh and Heavy Rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Rajasthan, East Madhya Pradesh, Bihar, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand, west Bengal & Sikkim, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over north Maharashtra and Gujarat coast and (speed 40-50 kmph gusting to 60 kmph) over southwest Bay of Bengal and along & off Sri Lanka coast. Fishermen are advised not to venture into these areas.
- 04 August (Day 2): 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 Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, West Uttar Pradesh, Uttarakhand, Haryana, Bihar, West Bengal & Sikkim, Odisha Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand, West Bengal & Sikkim, and Odisha. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over north Maharashtra and Gujarat coast and (speed 40-50 kmph gusting to 60 kmph) over southwest Bay of Bengal and along & off Sri Lanka coast. Fishermen are advised not to venture into these areas.

- 05 August (Day 3): Heavy to Very Heavy Rainfall at isolated places very likely over East Rajasthan and Uttarakhand; Heavy Rainfall at isolated places likely over Himachal Pradesh, West Uttar Pradesh, Haryana, Punjab, West Madhya Pradesh, Odisha, Gangetic West Bengal and Andaman & Nicobar Islands. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over north Maharashtra and Gujarat coast and (speed 40-50 kmph gusting to 60 kmph) over southwest Bay of Bengal and along & off Sri Lanka coast. Fishermen are advised not to venture into these areas.
- 06 August (Day 4): Heavy Rainfall at isolated places likely over Uttar Pradesh, Uttarakhand, East Rajasthan, West Madhya Pradesh, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands. Thunderstorm accompanied with lightning likely at isolated places over Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over over southwest Bay of Bengal and along & off Sri Lanka coast. Fishermen are advised not to venture into these areas.
- 07 August (Day 5): Heavy Rainfall at isolated places likely over Himachal Pradesh, Uttar Pradesh, Uttarakhand, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands. Thunderstorm accompanied with lightning likely at isolated places over Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over over southwest Bay of Bengal and along & off Sri Lanka coast. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 03 Aug to 11 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (30 MW) at AICRPAM Akola centre: T max 29.2.2°C (normal 30.8°C), T min 23.0°C (normal 23.4°C). RH I 89 % (normal 86 %), RH II 72 % (normal 66 %). Evaporation rate 2.3 mm (normal 4.4 mm), Wind 6.7 km/hr (normal 10.6 km/hr) and BSH 1.5 hrs (normal 3.5 hrs). Maximum temperature across the week was 1.6°C below normal with a deviation of -5.5 to +0.1°C from normal. Minimum temperature across the week 0.4° below normal with a deviation of -1.4 to +0.4°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates light to moderate rainfall very likely to occur at many places during 29 July-02 Aug. In view of sufficient to excess realized widespread rainfall last three days, immediately drain out excess water from orchards, standing crops and vegetable fields. Farmers are advised to monitor the crop regularly for insect incidence and use the suitable recommended control measures thereof in the initial stage itself. Judging soil workability following recent spells of rain undertakes intercultural operations (hand weeding/hoeing) for timely control of weeds.
- For weed control in soybean alternative option of recommended early post emergence spray during clear weather include post emergence herbicidal at 15-20 days crop stage with imazethapyr 10% SL @ 10-15 ml OR imazethapyr + imazamox 70% WG @ 2 g OR propaquizafop 2.5%+imazethapyr 3.75% @ 40 ml per 10 litres of water. For chemical control of girdle beetle in soybean crop (above ETL level,10% infested plants) undertake spray of Triazophos 40 % @ 12.5 ml OR chlorantraniliprole 18.5% SC @ 3.0 ml per 10 liters of water during clear weather condition.
- Apply top dressing of nitrogen fertilizer during clear weather to earlier sown one month old cotton crop @ 40 kg N/ha for irrigated Bt cotton, 35 kg N/ha for irrigated hybrid cotton, 30 kg N/ha for rained Bt cotton and deshi hybrid cotton, 20 kg N/ha for deshi improved variety. In cotton for scattered para wilt incidence observed in waterlogged areas drain out excess water and undertake soil drenching to affected plants with carbendazim 25% WP @ 25 g per 10 litres of water is advisable during clear weather.
- Undertake inter culture operation (weeding/hoeing) in pigeon pea, green gram and black gram crops to improve the aeration in soil and crop and management of weeds during clear weather.

- Farmers are advised to keep green gram crop in weed free state, as the leaf crinkle disease spread through weeds. Avoid excessive use of nitrogenous fertilizers in green gram crop which may leads to vegetative growth of the plants & increases pest incidence. Intercultural operations should be done in green gram crop by judging forecasted rainfall.
- At the initiation of infestation (5% plant damage) of maize army worm (*Spodoptera frugiperda*) undertake mechanical picking of egg larvae masses and its destruction regularly. For monitoring Install pheromone traps @ 5/acre and as the intensity of infestation increases for mass trapping increase number of pheromone traps. In earlier sown sorghum crop apply top dressing of nitrogen fertilizer @ 40 kg N/ha to 25-30 days old sorghum crop after current spell of rains during clear weather.
- In mandarin and sweet orange orchards, dead twigs should be removed and cut ends be smeared with bordeaux paste (1 kg lime+ 1 kg CuSo₄ + 10 litre water). Also apply bordeaux paste at the base of the tree up to 1 m above ground level. During this month there is rapid spread of citrus canker in acid lime (lemon). Affected leaves, branches should be pruned and burnt. Spray copper oxychloride 180 g with streptocycline 6 g in 60 litres of water.
- Undertake transplanting of 4 to 6 weeks old seedlings of chilli, tomato, brinjal and cauliflower. External and Internal parasite cases increase in rainy season so take care of it with consulting the veterinary doctor.

SAT : INSAT-3D IMG
 IMG_TIR1 10.8 um
 L1C Mercator

03-08-2021/(0800 to 0826) GMT
 03-08-2021/(1330 to 1356) IST

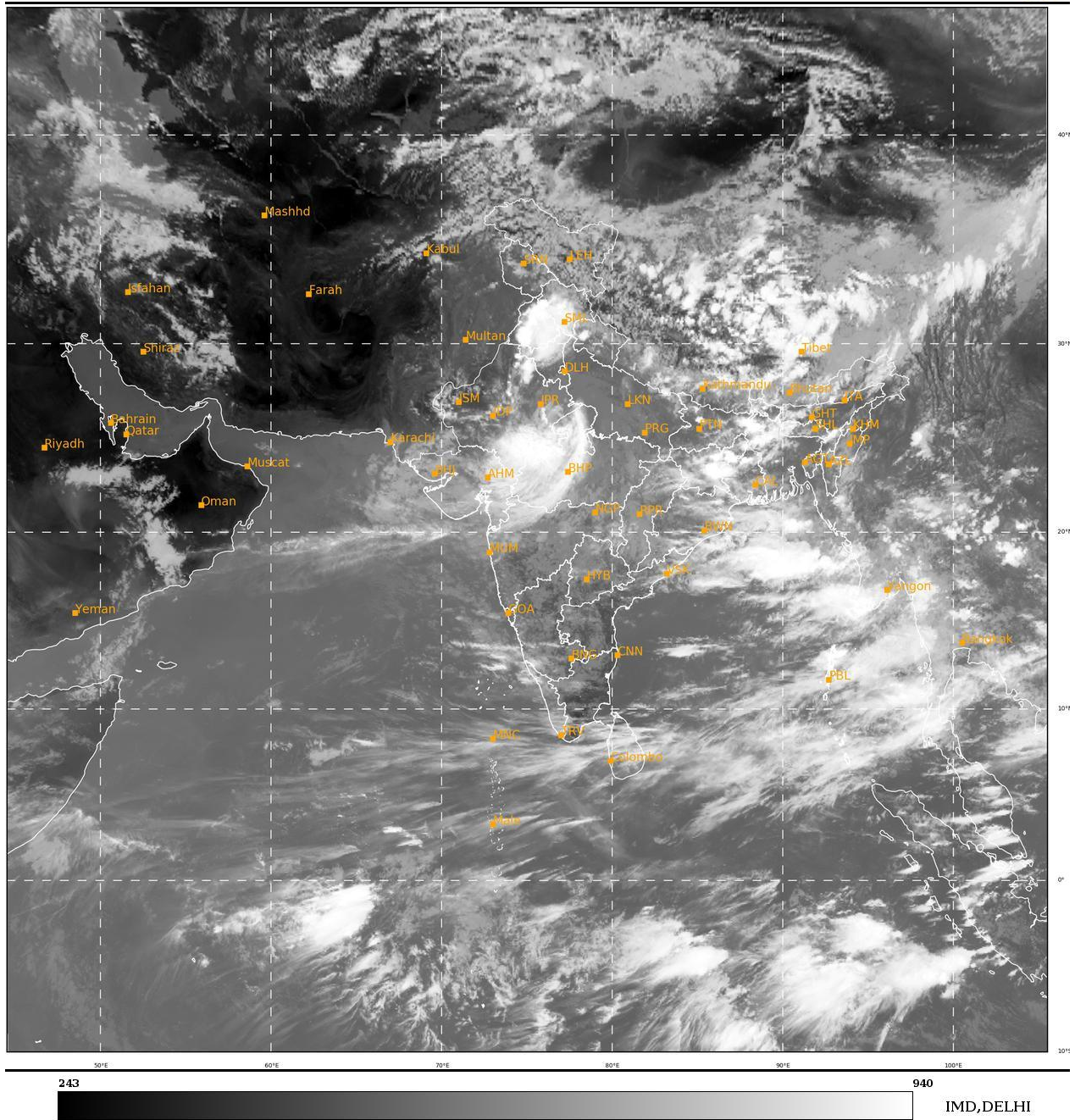


Figure: 1. Latest available satellite picture as on 03 Aug 2021 at 1356 Hrs (IST). (Source: IMD).

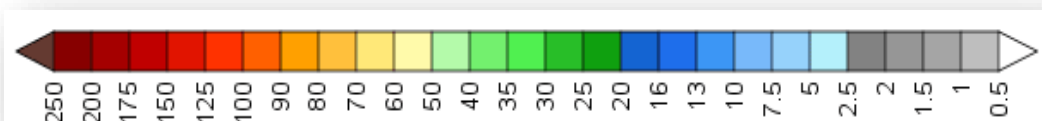
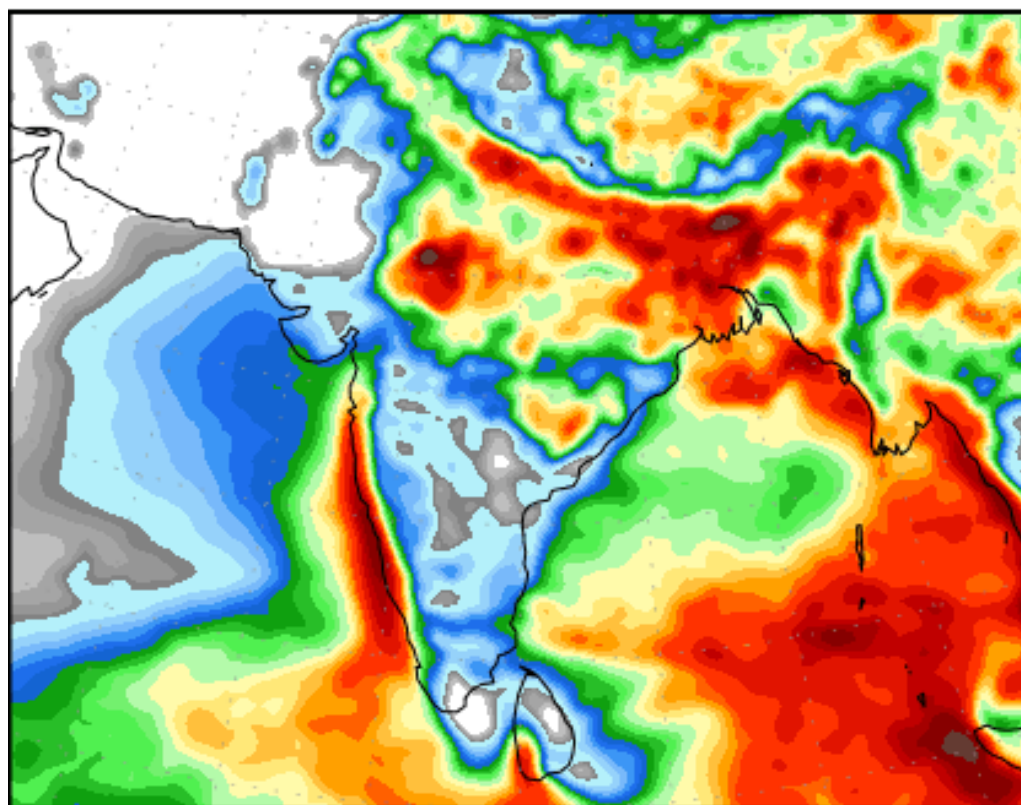


Figure:2. Precipitation forecast for 03 Aug to 11 Aug 2021 (Source: NOAA NCEP).

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