

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

Daily Crop Weather Information as on 05 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area over northwest Madhya Pradesh & neighbourhood now lies over central parts of north Madhya Pradesh & neighbourhood. The associated cyclonic circulation extends upto mid-tropospheric level. It is likely to become less marked during next 24 hours. However, the associated cyclonic circulation is likely to continue for subsequent 48 hours over the same region.
- The Monsoon trough at mean sea level passes through Ganganagar, Narnaul, centre of Low Pressure Area over central parts of north Madhya Pradesh, Varanasi, Gaya, Bankura and thence southeastwards to Northeast Bay of Bengal. It is likely to shift close to foot hills of the Himalayas by 10th August.
- Under the influence of the above weather 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 5th August, with reduction thereafter.
 - (ii) Fairly widespread/widespread rainfall with isolated heavy falls very likely over West Bengal today on 5th; Odisha and Jharkhand on 05th & 06th and Bihar during 07th- 09th August, 2021.
 - (iii) Fairly widespread/widespread rainfall with isolated heavy falls very likely over northeastern states till 9th with enhanced rainfall activity from 10th Aug. Isolated heavy rainfall likely over Assam & Meghalaya during next 5 days; over Nagaland, Manipur, Mizoram & Tripura on 05th & 06th and Arunachal Pradesh on 08th & 09th August, 2021.
 - (iv) Scattered to fairly widespread rainfall over Uttarakhand and West Uttar Pradesh during next 5 days with isolated heavy rainfall over these areas during the same period. Isolated to scattered rainfall very likely over Rajasthan, Punjab, Haryana and Jammu & Kashmir till 9th August with isolated heavy rainfall also likely over East Rajasthan on 5th & 6th August and Subdued rainfall likely to continue till 10th August except over northern parts of Uttar Pradesh and Uttarakhand where rainfall likely to sustain.

- 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 Gangetic West Bengal, Uttarakhand, West Madhya Pradesh, Konkan & Goa, Coastal Karnataka and Kerala & Mahe; at many places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Himachal Pradesh, East Madhya Pradesh, Vidarbha and Interior Karnataka; at a few places over Assam & Meghalaya, Odisha, Punjab, Rajasthan, Gujarat Region, Madhya Maharashtra and Chhattisgarh and at isolated places over Arunachal Pradesh, Uttar Pradesh, Haryana, Chandigarh & Delhi, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, 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, Bihar and Gangetic West Bengal and Heavy Rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Tripura and Madhya Maharashtra.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, Punjab, Haryana & Chandigarh, East Rajasthan, Bihar, Coastal Karnataka, West Bengal & Sikkim and Assam & Meghalaya.
- Maximum Temperature Departures as on 04-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Coastal Andhra Pradesh & Yanam; at a few places over Telangana and Tamilnadu, Puducherry & Karaikal and at isolated places over Assam & Meghalaya and Odisha; above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh, West Rajasthan, Marathwada and Chhattisgarh; at a few places over Kerala & Mahe and at isolated places over Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura. They were appreciably below normal (-30°C to -5.0°C) at a few places over West Madhya Pradesh and Bihar and at isolated places over East Madhya Pradesh and Gangetic

West Bengal and below normal (-1.6°C to -3.0°C) at most places over Jharkhand and at a few East Rajasthan and East Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.6°C was reported at Phalodi (West Rajasthan).

- Minimum Temperature Departures as on 05-08-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at a few places over Uttarakhand, Haryana, Chandigarh & Delhi, Odisha, Gujarat Region and Coastal Andhra Pradesh & Yanam; at isolated places over Punjab, West Rajasthan, Saurashtra & Kutch, Madhya Maharashtra, Telangana, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at isolated places over East Rajasthan, Madhya Pradesh and Jharkhand and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.07°C is reported at Narsinghpur (East Madhya Pradesh).

Weather Warning during the next 5 days (IMD)

- 05 August (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over West Madhya Pradesh and Heavy Rainfall at isolated places over Uttarakhand, East Rajasthan, Jharkhand, Odisha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, ghat areas of Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, Odisha, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest, Eastcentral and Westcentral Arabian Sea. Squally weather (speed 40-50 kmph) very likely over Eastcentral Bay of Bengal. Fishermen are advised not to venture into these areas.
- 06 August (Day 2): Heavy Rainfall very likely at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand and Gangetic West Bengal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest, Eastcentral and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 07 August (Day 3): Heavy Rainfall very likely at isolated places over Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, Bihar and Tamilnadu, Puducherry & Karaikal.

Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest, Eastcentral and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 08 August (Day 4): Heavy Rainfall likely at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) likely at isolated places over Kerala & Mahe and accompanied with lightning at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over Southwest, Eastcentral and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 09 August (Day 5): Heavy Rainfall likely at isolated places over Uttarakhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) likely at isolated places over Kerala & Mahe and accompanied with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over Southwest, Eastcentral and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 05 Aug to 13 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)

Assam

Weather condition:

Weather during the last week was generally cloudy. Daily average maximum temperature was 30.9°C which was 1.4°C below normal and the average daily minimum temperature was 25.0°C which was 0.2°C below normal for the week. Total BSSH was 7.5 hrs with an average of 1.25 hrs/day. The daily average evaporation rate was 1.5 mm/day and the average daily wind speed during the week was 0.9 kmph. Daily average RH during morning and afternoon hour was 97.3% and 84.1%, respectively.

Contingency measure:

- Sali rice (Main field preparation): Farmers may continue main field preparation for transplanting of Sali rice seedlings. To control infestation of stem borers in the sali rice seedlings in nursery bed, spray Fipronil @ 7.5 ml per 10 lit of water under fair weather condition. Before transplanting in main field go for root dip treatment by uprooted seedlings in a solution of Flubendiamide or Chlorpyrifos (1 ml/lit of water) along with 10 g urea for 3 hours as a protective measure against stem borer, gall midge and hoppers. The seedlings of short and medium duration varieties should be transplanted at a spacing of 20cm x 15cm. In case of long duration varieties like Mahsuri, Ranjit, Bahadur spacing should be 20cm x 25cm and 25cm x 25cm.
- Citrus (Fruiting stage): High humidity, coupled with rainfall during the last week, might favour the occurrence of Gummosis disease in citrus crop. On occurrence, proper drainage facilities should be provided to drain out excess water from the orchard. Scrap out the affected portion without injuring the wood followed by smearing it with Bordeaux paste. To control the infestation of citrus trunk borer, the holes made by the pest in the trunks should be spiked with wire to kill the grub followed by cleaning and plastering it with wet soil. Alternatively, the holes should be plugged with cotton soaked in insecticides like Emamectin Benzoate 5% SG or Imidachloprid 70% WG and then plastered with mud.
- Sugarcane (Grand growth phase): Continuous rainfall and water stagnation might lead to Red rot in sugarcane orchard. To avoid this, excess water should be drained out, and affected plants should be effectively rogued. Remove old and dry leaves from the cane. To prevent lodging in sugarcane crops during this rainy season, it is advised to provide with mechanical support to the canes by using bamboo sticks or by tying up the leaves of 4-5 canes together.

- Vegetable crop (sowing): Sowing of seeds of early Cauliflower may be initiated. The sowing may be completed within the first fortnight of August. The recommended early varieties are- Early Kunwari, Pusa Katki and Pusa Deepali. For cultivation in per bigha land the recommended seed rate is 80-95gram.
- Livestock (Various): Brucellosis disease is a serious disease of livestock, having significant health consequences. Infected cows usually abort between the fifth and seventh month of pregnancy. Other signs of brucellosis include retained placenta after miscarriage, apparent lowering of fertility with poor conception rates. Livestock rearers are advised to vaccinate the female calves, once in a lifetime, between 4-8 months of age.
- Poultry (various): For backyard poultry rearing select the improved variety like Kamrupa, Vanraja, Rainbow roaster etc. as these improved species can lay more number of eggs within a short period of time. Vaccination (RDF1) of layer poultry birds against the Ranikhet in one week old chicks and against Gumboro disease in two weeks old chicks may be carried out.
- Fishery (various): Rise embankment of fish ponds so as to prevent the escape of fish during heavy rainfall causing a situation of deluge. For composite fish farming, 750 nos. of Rahu, 1000 nos. of Silver Carp, 750 nos. of Catla, 1000 nos. of Mrigal, 500 nos. of Grass Carp and 1000 nos. of Common Carp can be stocked in per hectare water area.

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

05-08-2021/(0800 to 0826) GMT
05-08-2021/(1330 to 1356) IST

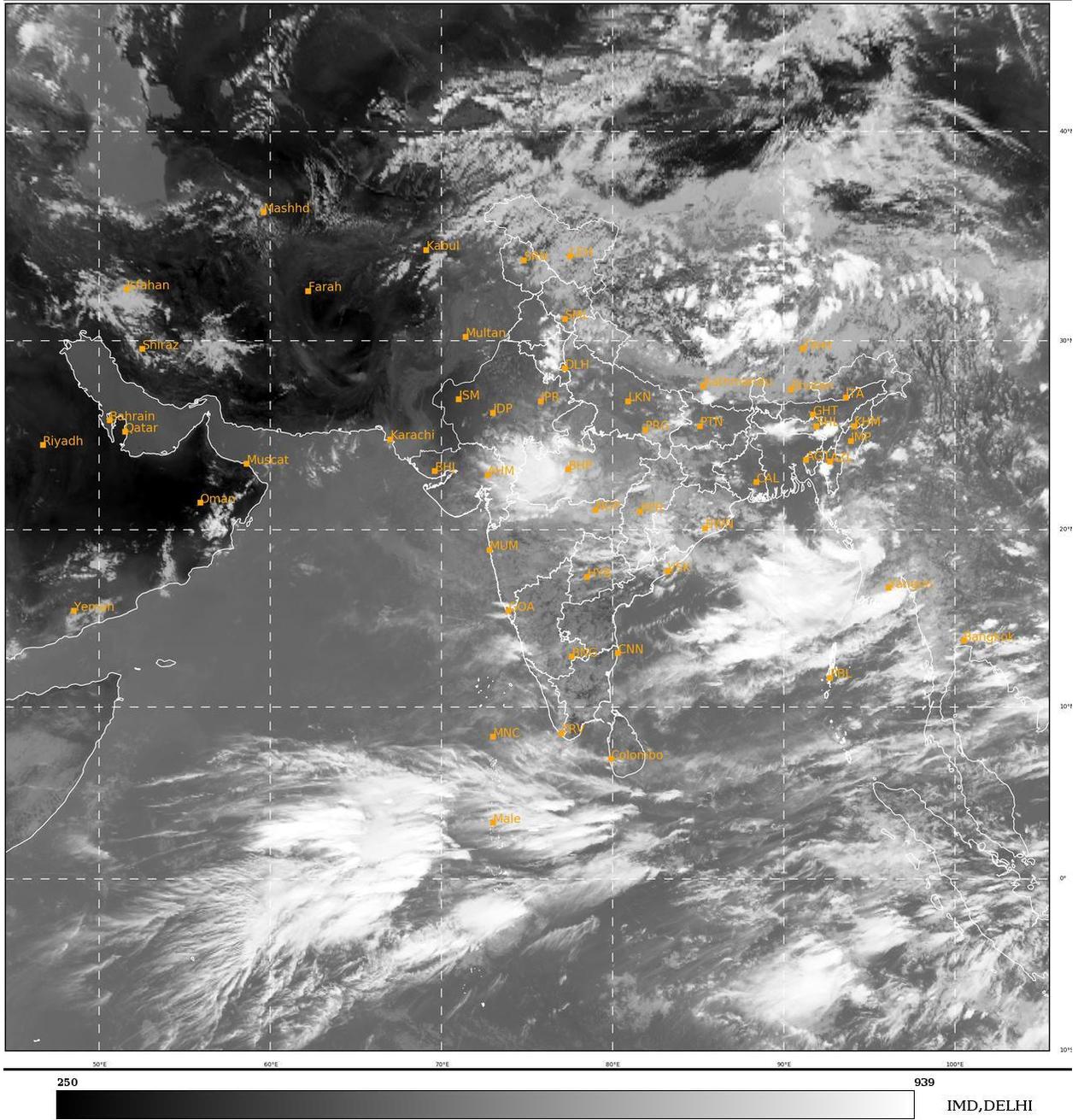


Figure: 1. Latest available satellite picture as on 05 Aug 2021 at 1356 Hrs (IST). (Source: IMD).

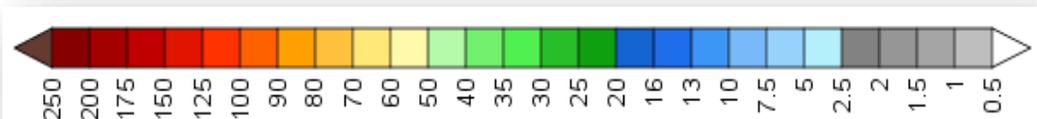
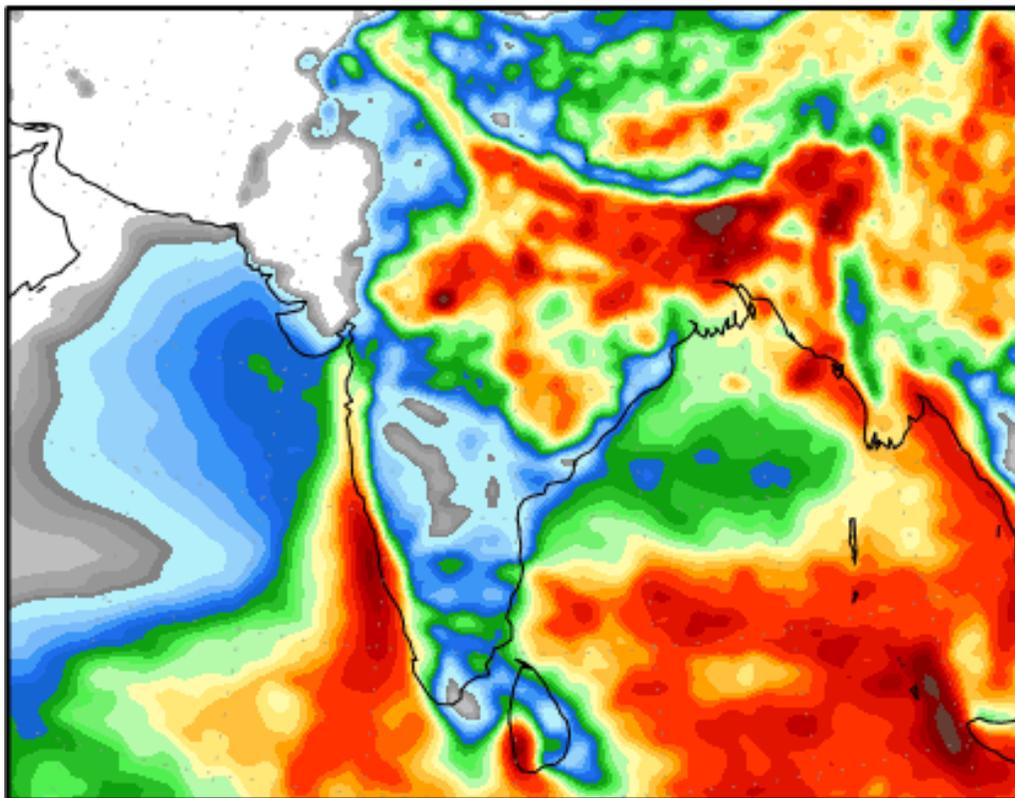


Figure:2. Precipitation forecast for 05 Aug to 13 Aug 2021 (Source: NOAA NCEP).

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