

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Eastern end of the Monsoon Trough continues to run close to the foothills of the Himalayas while western end runs north of its normal position.
- A cyclonic circulation lies over Bihar and extends upto mid-tropospheric levels.
- Under the influence of these systems:
 - (i) Current spell of Fairly widespread to widespread rainfall activity with isolated heavy to very heavy falls very likely to continue over northeast and SubHimalayan West Bengal & Sikkim during next 5 days. Isolated extremely heavy falls also likely over Assam & Meghalaya during 10th to 13th August.
 - (ii) Fairly widespread to widespread rainfall with isolated heavy falls very likely to continue over East Uttar Pradesh, Bihar, Jharkhand and Gangetic West Bengal during next 4-5 days. Isolated very heavy falls over Bihar on 11th & 12th August.
 - (iii) Fairly widespread to widespread rainfall with isolated heavy falls very likely over Uttarakhand on 13th & 14th and over Himachal Pradesh during 12th - 14th August.
 - (iv) Scattered to fairly widespread rainfall very likely over Tamilnadu and Kerala during next 5 days with isolated heavy falls over Tamil Nadu during next 5 days and over Kerala during next 2 days.
- Subdued rainfall very likely over rest parts of plains of northwest India (Punjab, Haryana, Rajasthan), adjoining central India and most parts of Peninsular India(outside Tamil Nadu and Kerala), including Maharashtra & Gujarat state.
- Moderate to severe thunderstorm accompanied with cloud to ground lightning very likely at isolated places over Uttar Pradesh, Madhya Pradesh and Bihar during next 24 hours.
- 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 Uttarakhand, Bihar, Arunachal Pradesh, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at many places over Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim,

Andaman & Nicobar Islands and Assam & Meghalaya; at a few places over Himachal Pradesh, Punjab, Haryana & Chandigarh, East Rajasthan, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, Gangetic West Bengal, Gujarat state, Madhya Maharashtra, Marathawada, Konkan & Goa, Telangana and North Interior Karnataka.

- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely heavy rainfall recorded at isolated places over Assam & Meghalaya; heavy to Very heavy rainfall at isolated places over East Uttar Pradesh, Uttarakhand, Madhya Pradesh and Tamilnadu and heavy rainfall at isolated places over Himachal Pradesh, Bihar, East Rajasthan, West Uttar Pradesh, Jharkhand, Chhattisgarh, Kerala & Mahe and Arunachal Pradesh.
- Thunderstorm observed (from 0830 hours of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, Punjab, Haryana, Uttar Pradesh, West Madhya Pradesh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Jharkhand, Odisha, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 09-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Marathawada, North Interior Karnataka and Telangana; at many places over Madhya Maharashtra; at a few places over Chhattisgarh, Gujarat Region, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal; at isolated places West Rajasthan, Odisha and Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over Vidarbha and South Interior Karnataka; at many places over Jharkhand, Saurashtra & Kutch and Kerala & Mahe; at a few places over East Rajasthan, Gangetic West Bengal and Andaman & Nicobar Islands; at isolated places Himachal Pradesh and Assam & Meghalaya. They were below normal (-1.6°C to -3.0°C) at a few places over Arunachal Pradesh and Lakshadweep; at isolated places over Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.4°C was reported at Phalodi (West Rajasthan).
- Minimum Temperature Departures as on 10-08-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Telangana and Coastal Andhra Pradesh; above normal (1.6°C to 3.0°C) at many places over Punjab and Chhattisgarh; at a few places over West Bengal & Sikkim and Odisha

and at isolated places over Rajasthan, Gujarat, Rayalaseema, Andaman & Nicobar Islands, Vidarbha, North Interior Karnataka, Madhya Maharashtra and Marathawada. They are below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir and Tamil Nadu, Puducherry & Karaikal; at isolated places over Madhya Pradesh, East Uttar Pradesh and South Interior Karnataka and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.5°C reported at Bulsar (Gujarat Region).

Weather Warning during the next 5 days (IMD)

- 10 August (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Assam & Meghalaya and Heavy rainfall at isolated places over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea; southeast Bay of Bengal and south Andaman Sea. Fishermen are advised not to venture into these areas.
- 11 August (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; heavy rainfall at isolated places over East Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea; southeast Bay of Bengal and south Andaman Sea. Fishermen are advised not to venture into these areas.

- 12 August (Day 3): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; heavy rainfall at isolated places over Himachal Pradesh, East Uttar Pradesh, Jharkhand, Gangetic West Bengal, Odisha and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Gangetic West Bengal, Odisha, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 13 August (Day 4): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Assam and Meghalaya; Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 14 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Assam and Meghalaya, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 10 Aug to 18 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)

West Bengal

Weather condition:

Weather conditions during the 31st week at Mohanpur, West Bengal: Maximum temperature: 29.0 to 33.8 0C, minimum temperature: 25.2 to 27.2 0C, bright sun shine hours: 0.3 to 6.5 hours, Morning-time relative Humidity: 92 to 100 %, after noon-time R.H: 73 to 89%, weekly total pan evaporation: 13.0 mm, total weekly rainfall is 55.7 mm and average daily wind speed is around 1.64 km/h.

Contingency measure:

- Brinjal: To control fruit & shoot borer in Brinjal ,collect and destroy affected shoots and fruits. Control the weed properly. Spray carbaryl 50WP @ 2 g/lt starting from one month after transplanting at 15 days interval. Soil application of carbofuran 3G at 30 Kg/ha 10 days after transplanting is also very effective. Dip the roots of the seedlings for 3 hrs in imidacloprid solution@ 1 ml/lt water before transplanting. Apply neem cake at 30 days after transplanting. Cultivation of brinjal under protected condition (net house) is found to reduce the incidence.;
- Kharif rice: Aman paddy Special advisory due to extreme heavy rainfall due to deep depression Seed bed with almost ready seedlings. Immediate drain out water as much as possible to save the seedlings. Use pump machine for water removal if possible. No fertilizer should be given in waterlogged field. After water removal if the seedlings found rotten apply 300-400g Potash fertilizer per katha with 200-250g urea per katha so that new seedlings can grow. Main field where already transplanting done. Immediate drain out water as much as possible where filed fully over-flooded. If seedlings found fully damaged , after drain out of water stat re-transplanting. Rearrange the bund after drain out.;
- Betel-vine: Immediate remove excess water from the garden. Rearrange the drainage channel and wash out the leaves with mud. Pluck the fresh leaves as much as possible. Arrange proper air movement inside the garden. No Bordeaux mixture or any fungicide should be given until the stagnant water will remove.

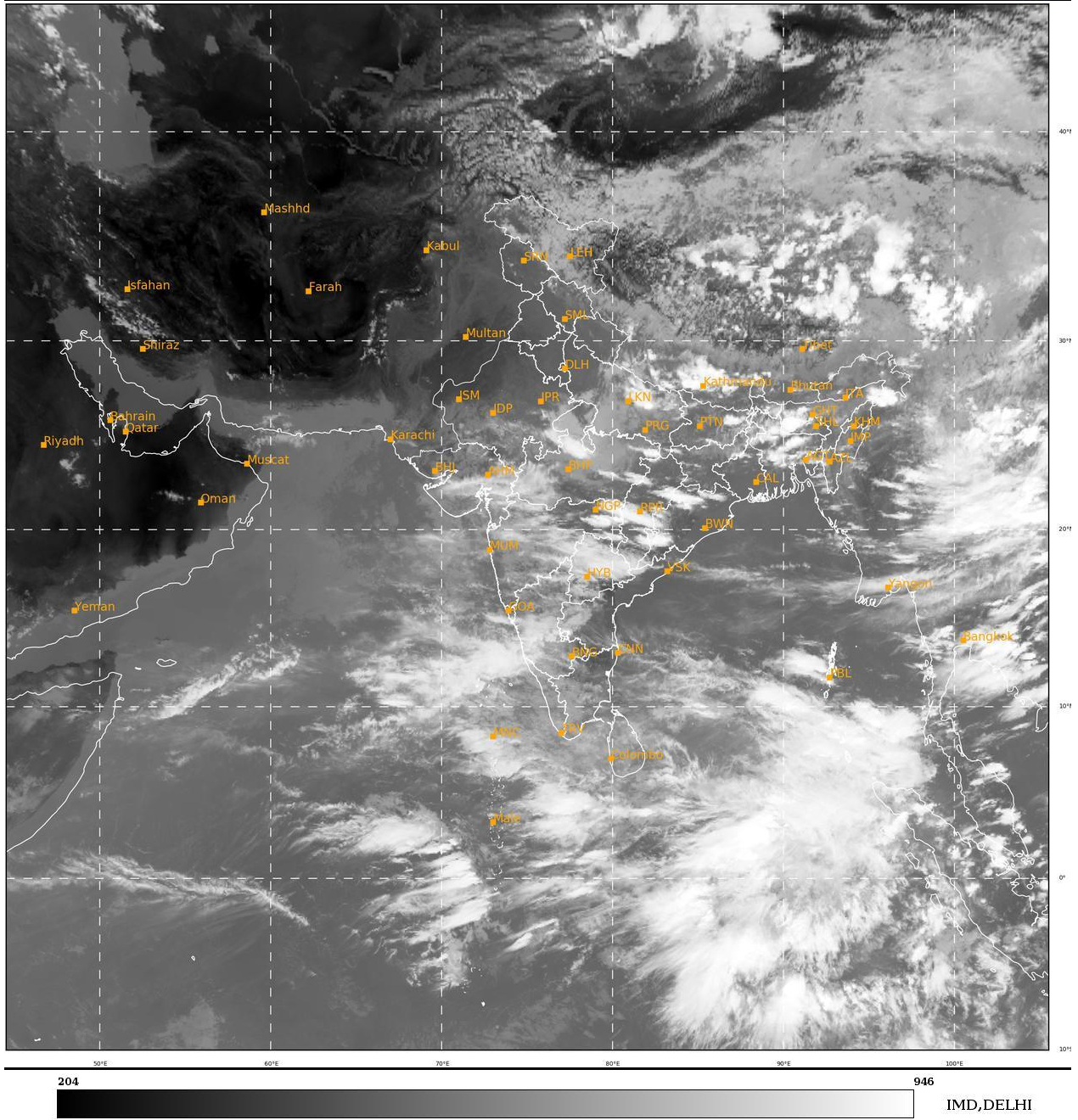


Figure: 1. Latest available satellite picture as on 10 Aug 2021 at 1356 Hrs (IST). (Source: IMD).

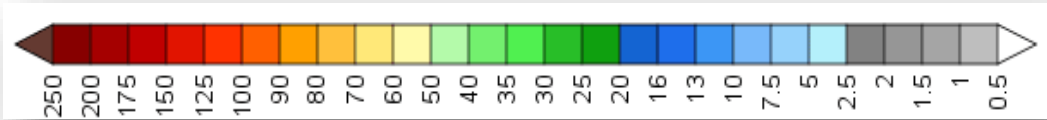
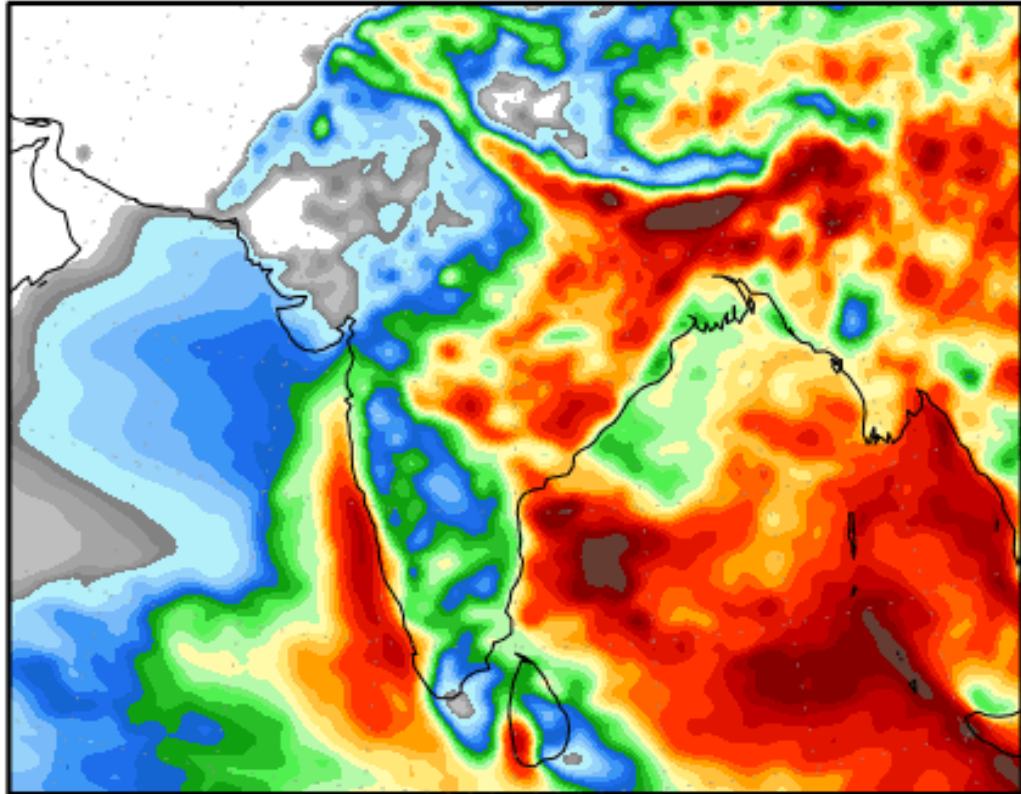


Figure:2. Precipitation forecast for 10 Aug to 18 Aug 2021 (Source: NOAA NCEP).

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.