

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 11 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 continues to run north of its normal position.
- A cyclonic circulation lies over Bihar and extends upto mid-tropospheric levels.
- A north-south trough/line of convergence at lower level runs from above cyclonic circulation over Bihar to north Coastal Andhra Pradesh across Jharkhand & Interior Odisha. Under the influence of these systems:
- 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 11th-14th August and reduction thereafter. Isolated extremely heavy falls also likely over Assam & Meghalaya during 11th to 13th August.
- Fairly widespread to widespread rainfall with isolated heavy falls very likely to continue over East Uttar Pradesh, Bihar, Jharkhand and Gangetic West Bengal during 11th-14th August and isolated very heavy falls over Bihar on 11th & 12th August.
- Scattered to Fairly widespread rainfall very likely over Western Himachal Region during next 5 days. Isolated heavy rainfall over Uttarakhand during 11th-15th August and over Himachal Pradesh during 12th-14th August.
- 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 Tamilnadu and Kerala), including Maharashtra & Gujarat state till 15th August with increase in rainfall activity over Peninsular India from 16th August onwards.
- Scattered to widespread rainfall very likely over Tamilnadu and Kerala during next 5 days with isolated heavy falls over Tamilnadu during 11th-14th August and over Kerala during 11th-12th August.
- 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 Andaman & Nicobar Islands, Arunachal Pradesh, Konkan & Goa and Coastal Karnataka; at many places over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, South Interior Karnataka and Lakshadweep; at a few places over Himachal Pradesh, Uttarakhand, Vidarbha, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka and Kerala & Mahe and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Gujarat state, Madhya Maharashtra, Marathwada, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, northeast Madhya Pradesh and East Uttar Pradesh; heavy rainfall at isolated places over Chhattisgarh, Odisha, Gangetic West Bengal, Arunachal Pradesh, Tamilnadu, Kerala, Uttarakhand, West Madhya Pradesh, Bihar, and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours of yesterday to 05830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Jharkhand, Odisha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- Maximum Temperature Departures as on 10-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Vidarbha and Telangana; at a few places over Odisha; at isolated places over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Punjab, Konkan & Goa, Marathwada and North Interior Karnataka; at many places over Himachal Pradesh, Gujarat Region and Madhya Maharashtra; at a few places over Rajasthan, Chhattisgarh, Saurashtra & Kutch, South Interior Karnataka and Rayalaseema; at isolated places over Bihar, West Madhya Pradesh, Kerala & Mahe and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at isolated places over East Uttar Pradesh and East Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.2°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 11-08-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Punjab; at a few places over Gujarat Region, Rayalaseema, Coastal Andhra Pradesh & Yanam and West Bengal & Sikkim and at isolated places over Rajasthan, Madhya Maharashtra, Telangana, Kerala & Mahe, Odisha and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at isolated places over Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh and Telangana and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.8°C is reported at Nandigama (Coastal Andhra Pradesh & Yanam).

Weather Warning during the next 5 days (IMD)

- 11 August (Day 1): 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 and Sub-Himalayan West Bengal & Sikkim; heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, 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, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest and Westcentral Arabian Sea; Squally weather wind (speed 50-60 kmph gusting to 70 kmph) very likely over southeast Bay of Bengal and south Andaman Sea. Fishermen are advised not to venture into these areas.
- 12 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, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal; heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura 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, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest and Westcentral Arabian Sea; Squally

weather wind (speed 50-60 kmph gusting to 70 kmph) very likely over southeast Bay of Bengal and south Andaman Sea. Fishermen are advised not to venture into these areas.

- 13 August (Day 3): 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 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, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest and Westcentral Arabian Sea; Squally weather wind (speed 50-60 kmph gusting to 70 kmph) very likely over southeast Bay of Bengal and south Andaman Sea. Fishermen are advised not to venture into these areas.
- 14 August (Day 4): Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar, Gangetic West Bengal, Arunachal Pradesh and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over Southwest and Westcentral Arabian Sea; wind (speed 40-50 kmph gusting to 60 kmph) over Central Bay of Bengal & South Bay of Bengal and along & off South Coastal Andhra Pradesh, south Andaman Sea and North Tamilnadu. Fishermen are advised not to venture into these areas.
- 15 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim; heavy rainfall at isolated places over Uttarakhand, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Rayalaseema. Thunderstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Coastal Andhra Pradesh & Yanam and Rayalaseema. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over

Southwest and Westcentral Arabian Sea; wind (speed 40-50 kmph gusting to 60 kmph) over Central Bay of Bengal & south Bay of Bengal and along & off South Coastal Andhra Pradesh, south Andaman Sea and North Tamilnadu. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 11 Aug to 19 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 (31 MW) at AICRPAM Akola centre: T max 29.3°C (normal 30.8°C), T min 22.5°C (normal 23.4°C). RH I 88 % (normal 86 %), RH II 69 % (normal 67 %). Evaporation rate 2.5 mm (normal 4.2 mm), Wind 7.5 km/hr (normal 10.2 km/hr) and BSH 1.4 hrs (normal 3.3 hrs). Maximum temperature across the week was 1.5°C below normal with a deviation of -3.9 to -0.3°C from normal. Minimum temperature across the week 0.8° below normal with a deviation of -1.6 to -0.1°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates light to moderate rainfall very likely to occur at few places during 05-09 Aug. Farmers are advised to monitor the crop regularly for insect incidence and use the suitable recommended control measures thereof in the initial stage itself. While planning plant protection spray consider the above said rainfall forecast and local weather conditions. Undertake spray on a non-rainy day with rain free period during spray and at least 6 hours after spray.
- Undertake inter culture operation (weeding/hoeing) in cotton, maize, soybean and pigeon pea crops during clear weather for management of weeds and improve soil aeration. For moisture conservation purpose and to drain the excess water from the cotton fields opening of conservation furrows is advisable at 30-35 days after every two crop rows at hoeing by tying rope to hoe tine, especially in later sown cotton crop. In late sown cotton crop apply top dressing of nitrogen fertilizer during clear weather to 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. For surveillance and monitoring purpose of boll worm infestation, erect 4 to 5

pheromone traps/ha in cotton fields. For the management of wilt and root rot of cotton, drenching of the early symptomatic plants with carbendazim 50 WP @ 20 g + Urea 100 g in 10 litre of water is advisable.

- For chemical control of girdle beetle (above ETL level, 10% infested plants) in soybean crop, undertake spray of Chlorantraniliprole 18.5% SC @ 3.0 ml OR Thiomethoxam 12.6% + Lambda Cyhalothrin 9.5% ZC OR Ethion 50% EC 30 ml per 10 liters of water during clear weather condition. In soybean crop, undertake spray of Indoxiacarb 15.8 SC @ 6.6 ml/ 10 L. of water to check infestation of leaf eating caterpillar. Spraying should be done under calm weather condition.
- Depending upon the market demand picking of green pods is advisable partly in green gram crop for better monetary benefit. Apply top dressing of nitrogen fertilizer @ 40 kg N/ha to 30 days old sorghum and maize crops with hoeing during clear weather.
- New plantation of fruit crops can be undertaken during this period. Across the farm/orchard land, removal of Parthenium weed in pre-flowering phase is advisable. In mandarin and sweet orange orchards, for Mrug bahar apply recommended dose of Nitrogen.
- Vegetables like bitter gourd, tinda, cluster bean, cowpea, gourds etc can be cultivated during this period. Seed treatment with bio-fungicide Trichoderma is advisable.
- Ensure sufficient feed and medication for livestock to last through prevailing intermittent disruption. External and Internal parasite cases increase in rainy season so take care of it with consulting the veterinary doctor.

11-08-2021/(0830 to 0857) GMT
11-08-2021/(1400 to 1427) IST

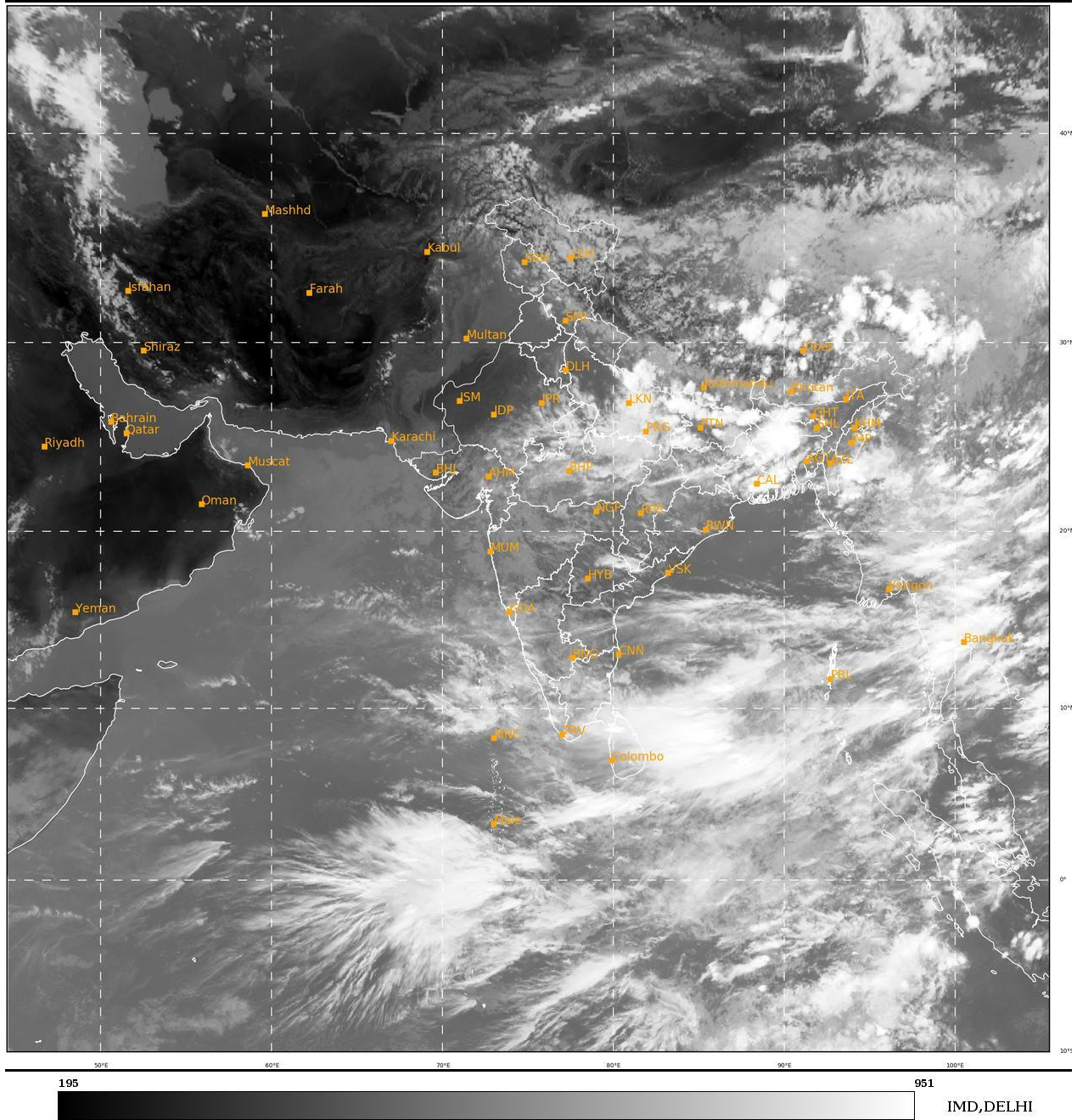


Figure: 1. Latest available satellite picture as on 11 Aug 2021 at 1427 Hrs (IST). (Source: IMD).

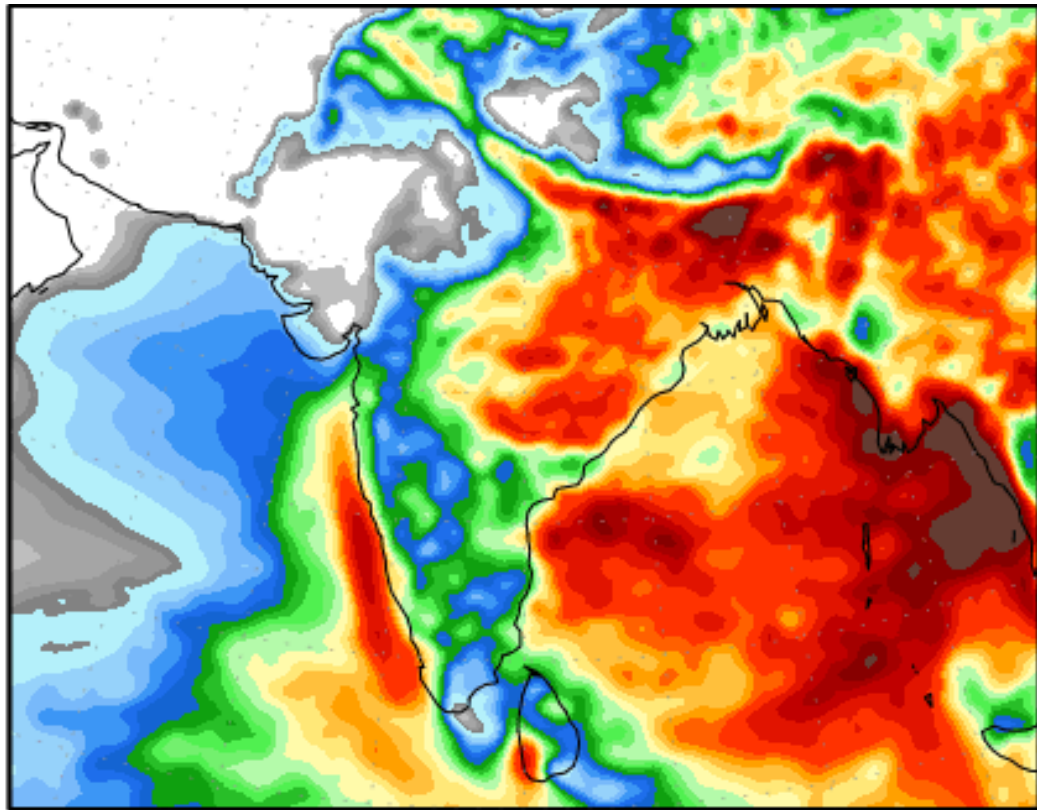


Figure:2. Precipitation forecast for 11 Aug to 19 Aug 2021 (Source: NOAA NCEP).

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