

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

Daily Crop Weather Information as on 09 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. The entire monsoon trough likely to shift close to foot hills of The Himalayas during next 24-48 hours causing weak monsoon spell likely over the country from 10th August.
- A cyclonic circulation lies over East Uttar Pradesh and extends upto mid-tropospheric levels.
- Under the influence of these systems:
 - i) Fairly widespread to widespread rainfall activity with isolated heavy to very heavy falls very likely over northeast and Sub-Himalayan West Bengal & Sikkim during next 5 days. Under the influence of likely prevailing of stronger southwesterly /southerly winds from Bay of Bengal in the lower levels over these areas, from 11th August, rainfall intensity very likely to increase over these areas, resulting in isolated extremely heavy falls over Assam & Meghalaya during 11th to 13th August.
 - ii) Fairly widespread to widespread rainfall with isolated heavy falls very likely over Uttarakhand during next 5 days and over Himachal Pradesh on 12th & 13th August.
 - iii) Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over East Uttar Pradesh, Bihar, Jharkhand during next 4-5 days and isolated heavy falls over Jharkhand on 10th to 13th August and Gangetic West Bengal during 11th to 13th August.
 - iv) Scattered to fairly widespread rainfall with isolated heavy falls very likely over Madhya Pradesh and East Rajasthan during next 24 hours with significant reduction in intensity & distribution thereafter.
 - v) Scattered to fairly widespread rainfall very likely over Tamilnadu and Kerala during next 5 days with isolated heavy falls over Tamilnadu during next 5 days and over Kerala during next 3 days.

- Subdued rainfall very likely over rest parts of plains of northwest India (Punjab, Haryana, West Rajasthan) and most parts of Peninsular India, including Maharashtra & Gujarat state.
- 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 Bihar, Uttarakhand, Konkan & Goa, Kerala & Mahe, Lakshadweep, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at many places over Arunachal Pradesh, Gangetic West Bengal, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh, Haryana, Chandigarh & Delhi and Coastal Karnataka; at a few places over Odisha, Jharkhand, East Uttar Pradesh, Himachal Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Assam & Meghalaya and at isolated places over Punjab, West Rajasthan, Gujarat state, Marathawada, Madhya Maharashtra, Rayalaseema and Telangana.
- Heavy rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) recorded: Heavy to very heavy rainfall at isolated places over SubHimalayan West Bengal & Sikkim, East Uttar Pradesh and Meghalaya and Heavy rainfall at isolated places over Himachal Pradesh, Lakshadweep, Uttarakhand, Haryana, West Uttar Pradesh, Bihar, Chhattisgarh, Gujarat region, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Rajasthan, West Madhya Pradesh, Punjab, Haryana, Chandigarh & Delhi, Bihar, Gangetic West Bengal, Jharkhand, Odisha, Tripura and Uttar Pradesh.
- Maximum Temperature Departures as on 08-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Marathawada, Vidarbha, North Interior Karnataka and Rayalaseema; at many places over Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Chhattisgarh; at isolated places over Gujarat state, Odisha and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, South Interior Karnataka and Telangana; at many places over Rajasthan, Assam & Meghalaya and Rayalaseema; at a few places over Himachal

Pradesh and Andaman & Nicobar Islands; at isolated places over Konkan & Goa and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at most places over Lakshadweep; at a few places over East Madhya Pradesh and West Bengal & Sikkim; at isolated places over West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.4°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 09-08-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Gujarat region, Coastal Andhra Pradesh, Rayalaseema, Sub-Himalayan West Bengal and Andaman & Nicobar Islands and at isolated places over Madhya Pradesh, Rajasthan, Saurashtra & Kutch, Vidarbha, Interior Karnataka, Telangana, Tamil Nadu, Puducherry & Karaikal and Odisha. They are below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir 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)

- 09 August (Day 1): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Uttar Pradesh, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, 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 (speed 40-50 kmph gusting to 60 kmph) over Southeast Arabian Sea off Kerala coast and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 10 August (Day 2): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand, Chhattisgarh, Andaman & Nicobar Islands, Assam & Meghalaya, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Uttar Pradesh, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh and Tamilnadu, Puducherry & Karaikal. 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.

- 11 August (Day 3): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Meghalaya; Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Assam and Nagaland, Manipur, Mizoram & Tripura; heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Chhattisgarh, Arunachal Pradesh, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Gangetic West Bengal, Odisha, Coastal Andhra Pradesh and Tamilnadu, Puducherry & Karaikal. 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.
- 12 August (Day 4): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Meghalaya; Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Assam and Arunachal Pradesh; heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Odisha and 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.
- 13 August (Day 5): 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 East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Bihar, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over 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., 09 Aug to 17 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)

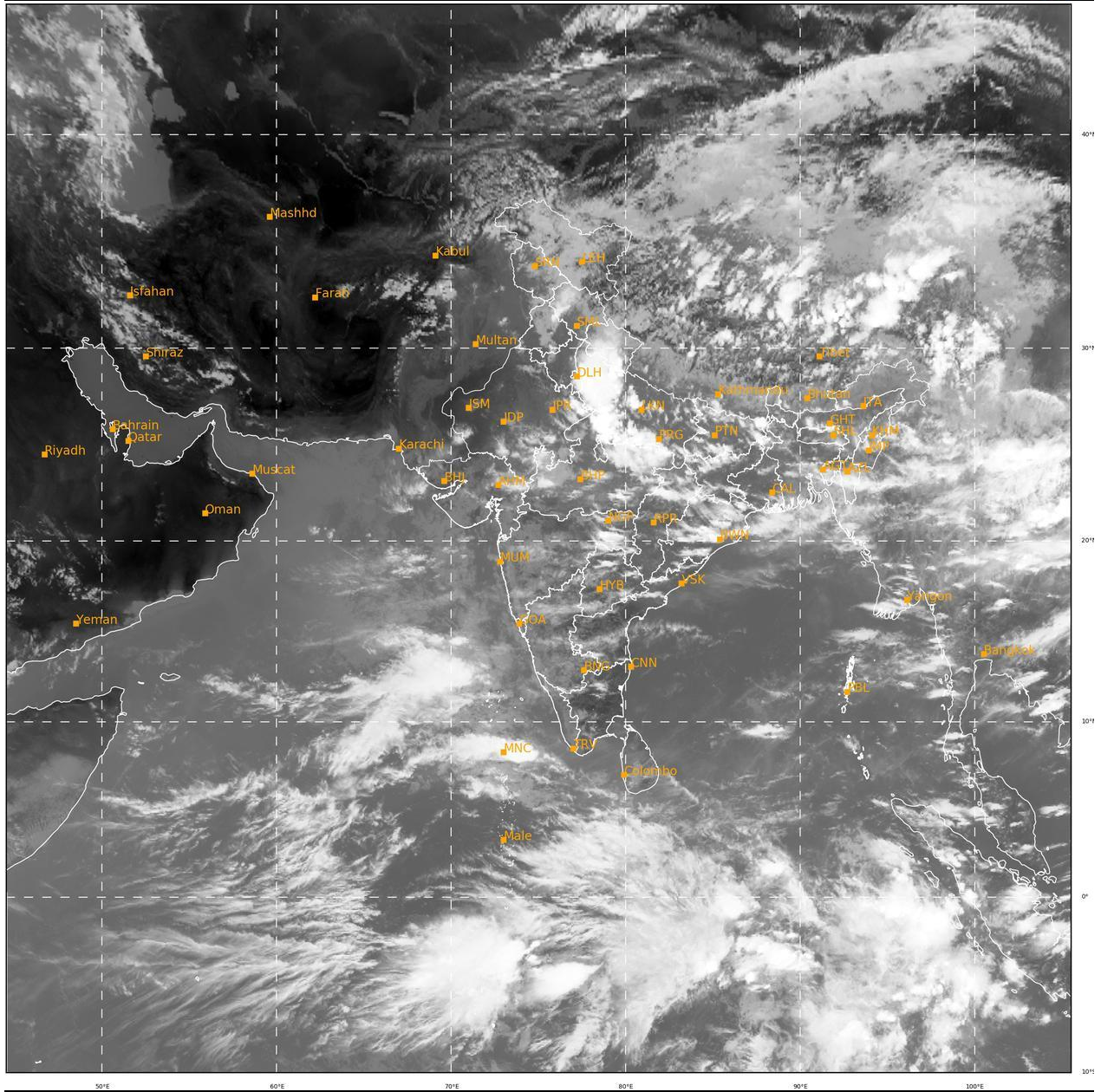
Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 29.7 to 30.9 Deg C, minimum temperature ranges from 23.1 to 23.8 Deg C. Morning relative humidity ranges from 094% to 098% and afternoon relative humidity ranges from 065% to 075%. Wind speed ranges from 1.5 to 2.3 km/h. Evaporation ranges from 2.3 to 2.9 mm. Sunshine hours range from 1.1 to 5.7 hours. 5 cm morning soil temperature ranges from 25.5 to 26.4 Deg C and afternoon soil temperature ranges from 30.7 to 32.9 Deg C.

Contingency measure:

- Paddy (virippu): Tillering stage: Gall midge There is a chance of Gall midge attack in rice. To control this apply 6 kilogram of Carbosulfan per acre.
- Banana: Rhizome rot: Due to the increase in rainfall, there is a chance of Rhizome rot in banana. As a precaution, pour 3 litre of pseudomonas solution (20 gm per 1 litre) at the basin.
- Pepper: Foot rot: As a prophylactic measure to manage foot rot during rainy season, add 2 kg Trichoderma to a mixture of 90 kg FYM & 10 kg neem cake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to the base of each matured pepper vine to control foot rot disease.
- Nutmeg: Leaf fall: As a precautionary measure to manage leaf fall during rainy season, spray 1% bordeaux mixture.
- Ginger: Stem borer: There is a chance of stem borer in ginger. Spray 20 g Beauveria per one litre of water to control stem borer.
- Turmeric: Leaf Blotch: During rainy season there is a chance of Leaf blotch in Turmeric. To control, spray 2 ml. Contaf (Hexaconazole) in one litre of water.
- Vegetables (Bindi): Leaf spot-There is a chance of leaf spot attack in bindi. To control leaf spot, spray three gram mancozeb per litre of water.
- Animal Husbandry: Sun dry the cattle feed frequently to avoid fungal growth. Give foot and mouth disease (FMD) vaccination to the animal.



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IMD,DELHI

Figure: 1. Latest available satellite picture as on 09 Aug 2021 at 1356 Hrs (IST). (Source: IMD).

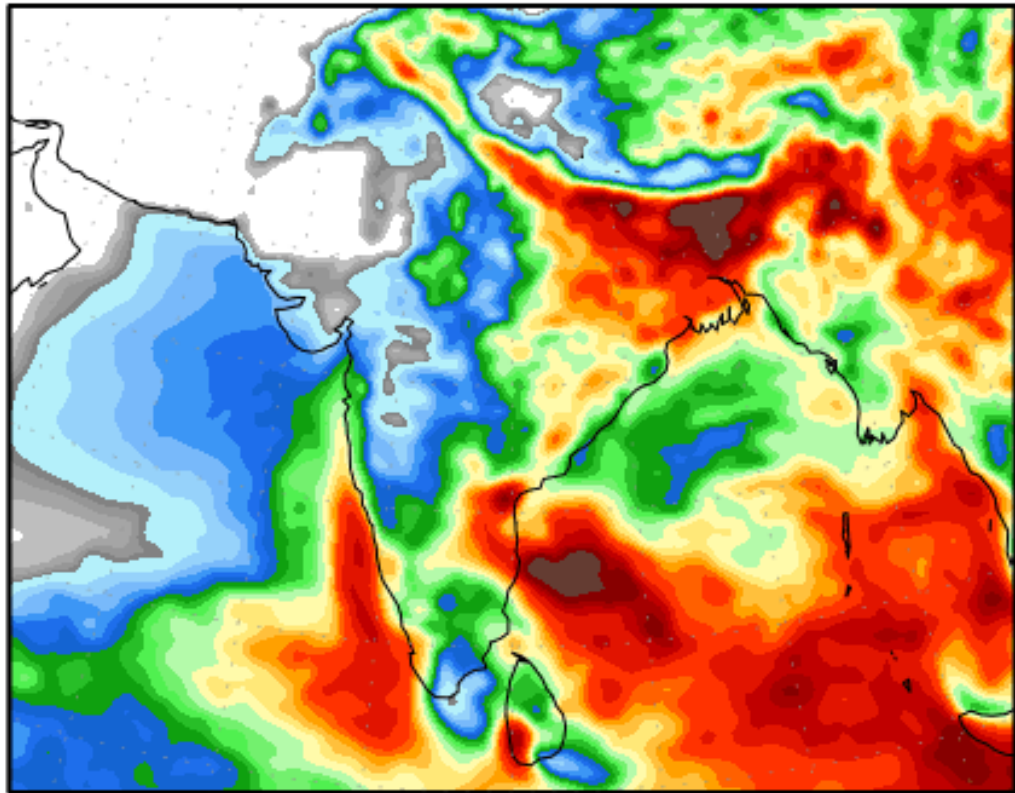


Figure:2. Precipitation forecast for 09 Aug to 17 Aug 2021 (Source: NOAA NCEP).

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