

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 12 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over northeast Rajasthan & neighbourhood at lower levels.
- The monsoon trough is near to its normal position.
- An east-west shear zone runs in the mid-tropospheric levels tilting southwards with height.
- A fresh low pressure area is likely to form over Northwest Bay of Bengal & neighbourhood around 13th August.
- Under the above scenario, (i) Fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over major parts of northwest India (Western Himalayan region, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh) during next 2-3 days. (ii) Fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over Gujarat state, East Rajasthan and parts of central India during 12th -16th August. Isolated extremely heavy falls also likely over Gujarat state & East Rajasthan and isolated heavy to very heavy falls over northern parts of Konkan & Goa, during 14th-15th August.
- Moderate to Severe thunderstorm accompanied with lightning very likely at a few places over Bihar and at isolated places over East Rajasthan, Uttar Pradesh, Haryana, Chandigarh & Delhi, Uttarakhand, Himachal Pradesh, Coastal Andhra Pradesh & Yanam and Jharkhand 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 to 1730 hrs IST of yesterday): at most places over Chhattisgarh, Konkan & Goa and Coastal Karnataka; at many places over Saurashtra & Kutch, Nagaland, Manipur, Mizoram, Tripura, Assam & Meghalaya, South Interior Karnataka and Kerala & Mahe; at a few places over East Uttar Pradesh, East Rajasthan, Gujarat Region, Madhya Pradesh, Bihar, Sub-Himalayan west Bengal & Sikkim, Arunachal Pradesh and North Interior Karnataka and at isolated places over Himachal

Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, West Rajasthan, West Uttar Pradesh, Vidarbha, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.

- Heavy rainfall recorded at isolated places over East Uttar Pradesh.
- Thunderstorm observed (0830 hours IST of yesterday to 0530 hrs IST of today): Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, East Rajasthan, Bihar, Jharkhand, Madhya Pradesh, Vidarbha and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 11-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jharkhand and East Madhya Pradesh ; above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad and Gangetic West Bengal; at many places over Himachal Pradesh and Odisha; at a few places over Punjab, Haryana, Chandigarh & Delhi, Gujarat region, East Uttar Pradesh and Telangana; at isolated places over Uttarakhand, Rajasthan, Saurashtra & Kutch, West Uttar Pradesh, West Madhya Pradesh, Bihar, Nagaland, Manipur, Mizoram, Tripura, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Assam & Meghalaya; at isolated places over Chhattisgarh; below normal (-1.6°C to -3.0°C) at isolated places over Marathwada and Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.3°C was reported at Jaisalmer (West Rajasthan).
- Minimum Temperature Departures as on 11-08-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over East Rajasthan, East Madhya Pradesh and Bihar; above normal (1.6°C to 3.0°C) at most places over Andaman & Nicobar Islands; at many Uttarakhand, Himachal Pradesh and Jharkhand; at a few places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, East Uttar Pradesh, Saurashtra & Kutch, Odisha and West Bengal & Sikkim and at isolated places over West Uttar Pradesh, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. They were below normal (-1.6°C to -3.0°C) at isolated places over Vidarbha, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest

minimum temperature of 18.2°C was reported at Chandrapur (Vidarbha) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 12 August (Day 1): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha and Gujarat Region and heavy rainfall at isolated places over Himachal Pradesh, Bihar, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, ghat area of Madhya Maharashtra, Konkan & Goa, Telangana and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over East Rajasthan, Uttar Pradesh, Haryana, Chandigarh & Delhi, Uttarakhand, Himachal Pradesh, Coastal Andhra Pradesh & Yanam, Bihar and Jharkhand. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & West Central Arabian Sea. Fishermen are advised not to venture into these areas.
- 13 August (Day 2): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh and Gujarat Region and heavy rainfall at isolated places over Punjab, Haryana, Chandigarh & Delhi, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Saurashtra & Kutch, ghat area of Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Uttar Pradesh, East Rajasthan and Bihar. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & West Central Arabian Sea; (speed reaching 45-55 kmph) likely along & off Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- 14 August (Day 3): Heavy to very rainfall with extremely heavy falls likely at isolated places over Gujarat region and Southeast Rajasthan; Heavy to very heavy rainfall likely at isolated places over West Madhya Pradesh, Chhattisgarh, Odisha, Saurashtra & Kutch and Konkan & Goa and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, ghat area of Madhya Maharashtra and Coastal Andhra Pradesh & Yanam. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & West Central Arabian Sea; (speed reaching 45-55 kmph) likely along & off Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- 15 August (Day 4): Heavy to very rainfall with extremely heavy falls likely at isolated places over Gujarat State and Southeast Rajasthan; Heavy to very heavy

rainfall likely at isolated places over West Rajasthan, Chhattisgarh, Jharkhand, Odisha, and Konkan & Goa and heavy rainfall at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, ghat area of Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Coastal Karnataka. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & West Central Arabian Sea; (speed reaching 45-55 kmph) likely along & off Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.

- 16 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Gujarat State, Rajasthan, Chhattisgarh, Jharkhand, Odisha, and Konkan & Goa and heavy rainfall at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, ghat area of Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Coastal Karnataka. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & West Central Arabian Sea; (speed reaching 45-55 kmph) likely along & off Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 12 to 20 Aug 2020 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)

Jammu

Weather condition:

Mainly cloudy weather prevailed during this week with 25.6 mm rainfall in two rainy days. The maximum temperature remain variable and was observed between 33.0 to 37.0 °C while minimum temperature remained above normal by 1 to 4 °C and was in the range of 23.4 to 29.0 °C. The morning and evening relative humidity were observed between 78 to 93 % and 57 to 83 %, respectively. The total evaporation during this week was observed 27.7 mm and bright sunshine in the range of 1.9 to 4.6 hrs per day.

Contingency measure:

- Paddy Establishment/ tillering: Farmers are advised to go for applications of 2nd dose of nitrogenous fertilizer as top dressing in normal/early transplanted rice crop. Monitor crop for the attack of sheath blight and brown spot.

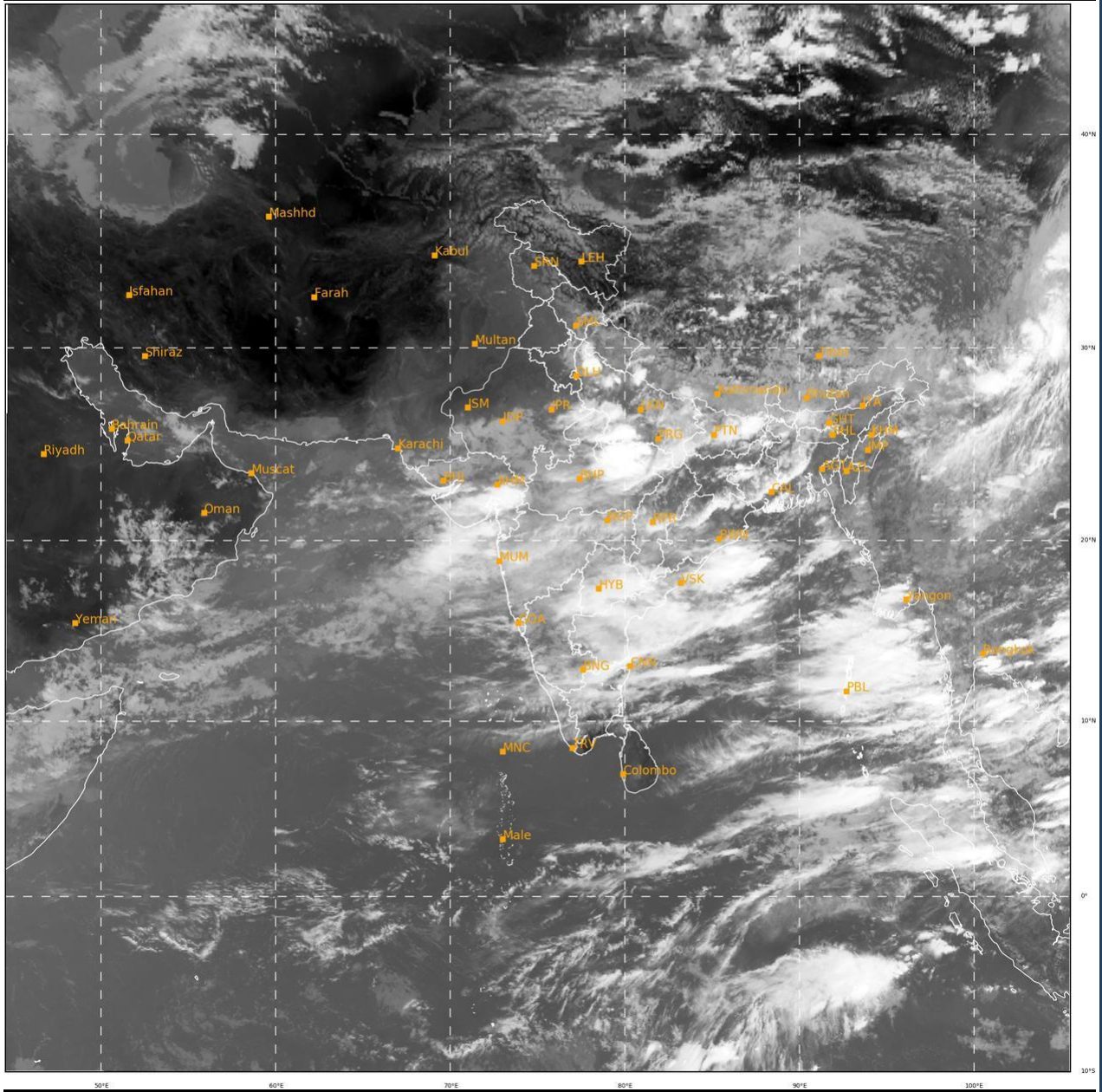
- *Kharif* Pulses (moong/mash) Vegetative Farmer may go for intercultural operations (thinning, weeding, hoeing) at optimum soil moisture condition.
- Maize Knee high/ peak vegetative: Top dress 2nd dose of nitrogen (Urea) during clear weather at optimum soil moisture condition, if the crop is 30-40 days old. *Kharif* mixed fodder Early vegetative Postpone irrigation as well as application of fertilizers due to chances of rain.
- Vegetables: Okra Bitter gourd Bottle gourd Fruiting Fruiting Fruiting Protect the crop from water logging by draining the field. Keep the field weed free. Remove yellow leaf plants as and when seen in field. Train and support the emerging vines on jute wires Monitor crop for the attack of fruit fly. Use pheromone traps @ 1 trap/10sq. m area to trap melon fly. Manual pollination in the evening or morning hours is recommended for maximum production.
- Floriculture: Chrysanthemum Marigold Cutting preparation/ Transplanting Sowing/ Transplanting Postpone irrigation as well as application of fertilizers due to chances of rain. Transplanting of Chrysanthemum on raised seed beds for cut/loose flower production is recommended. Nursery preparation under protection is recommended.
- Sericulture Mulberry Cocoon crop Tree plantation Harvested cocoons Postpone irrigation as well as application of fertilizers due to chances of rain. Due to chances of rainfall, mulberry saplings can be transplanted to field area during this period. Weather is also favourable for apical cut at height of 175-180 cm. Cocoons harvested during April month should be loosely packed in muslin cloth bags. The bags should be kept in wire mesh covered racks to avoid rodent attack till sale of the crop. Horticulture Guava Mango Bearing Young/Bearing Keep the basin area clean. To control fruit fly in fallen fruits, harvest fruit when hard. Use pheromone traps. Keep the area clean. Continue rainy season plantation. Maintain proper drainage in orchards.
- Mushroom: Milky Mushroom Oyster mushroom Fruiting Fruiting Provide sufficient ventilation in the cropping room. Spraying of water should be done only after assessing the water requirement Put the yellow light traps for the management of mushroom flies. Malathion @ 0.01% and chlorothalonil @ 0.05% can be sprayed at weekly interval, if disease and insect incidence is observed. Apiculture Protect bee colonies from rains. Give need based sugar feeding. Inspect colonies on a clear sunny day for infestation of wax moth or other disease. Poultry Water supply should be adequate and add vitamin C in water. Proper ventilation must be maintained at poultry house. Fumigate poultry huts. Maintain hygiene. Birds should not come in direct contact with rain. Use fan in poultry houses due to high humidity. Live stock

Provide clean water for drinking to the animals. Give supplementary mineral mixture with 50 gm iodized salt regularly to the milking and pregnant animals. Give vaccination against BQ and HS. Ensure green fodder to the livestock.

- Fisheries Fingerlings: Apply the screen/netting cloth on the outlets/overflows so that fish stock may not escape out during excessive rains. In case of table size fish/last year stock, farmers may go for partial harvesting. Give supplementary feeding (3-5% of total fish biomass on daily basis), Liming & manuring (on monthly interval) should be done.

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

12-08-2020/(0600 to 0627) GMT
12-08-2020/(1130 to 1157) IST



252

929

IMD, DELHI

Figure: 1. Latest available satellite picture as on 12 August 2020 at 1157 Hrs (IST). (Source: IMD).

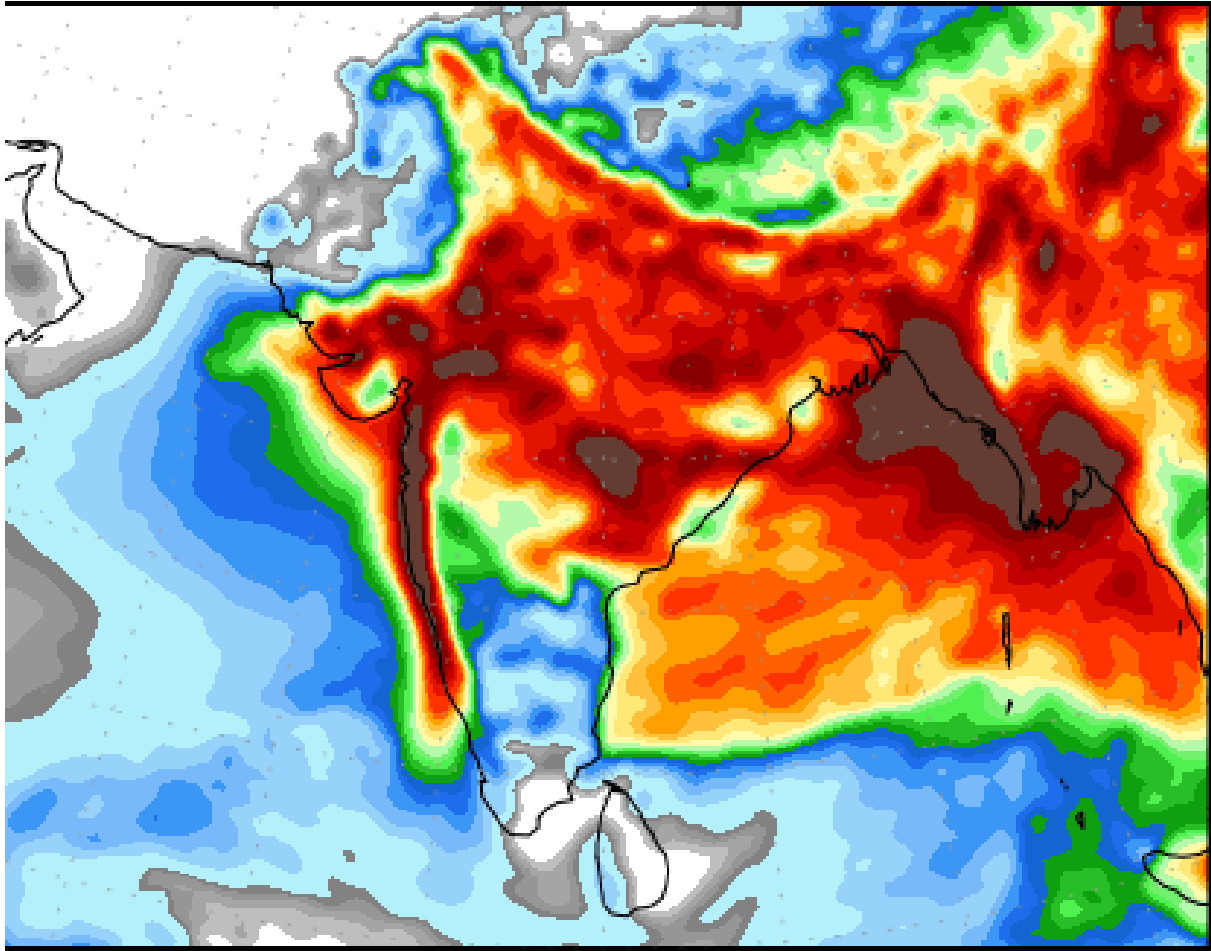


Figure:2. Precipitation forecast for 12 to 20 Aug 2020 (Source: NOAA NCEP).

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.