

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 07 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The withdrawal line of the Southwest Monsoon passes through Lat. 28°N/ Long.83°E, Faizabad, Fatehpur, Nowgong, Rajgarh, Ratlam, Vallabh Vidyanagar, Porbandar, Lat. 21°N/ Long.65°E and Lat. 21°N/ Long.60°E.
- A cyclonic circulation lies over south Coastal Odisha & neighbourhood in mid-tropospheric levels and a trough runs from this cyclonic circulation to eastern parts of Bihar across Gangetic West Bengal at 1.5 km above mean sea level. Under the influence these systems: i) Fairly widespread to widespread rainfall with isolated heavy falls very likely over Chhattisgarh, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Scattered rainfall with isolated heavy falls over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Telangana, Coastal Andhra Pradesh & Yanam on today, the 07th October, 2020.
- A fresh low pressure area is very likely to form over north Andaman Sea and adjoining Eastcentral Bay of Bengal around 09th October 2020. It is likely to move northwestwards and concentrate into a Depression over central Bay of Bengal during the subsequent 24 hours. Under the influence of this system. i) Enhanced rainfall activity likely over Andhra Pradesh, Telangana, Tamil Nadu & Puducherry and Andaman & Nicobar Islands and isolated heavy falls also likely over Tamilnadu, Telangana and Andaman & Nicobar Islands from 09th October, 2020 onwards.
- Dry weather very likely over most parts of the northwest India during next 5 days.
- Moderate thunderstorm with lightning at isolated places very likely over East Madhya Pradesh, East Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Telangana and north Coastal Andhra Pradesh during next 12 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 hours IST of yesterday): at most places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at a few places over Chhattisgarh, Odisha, West Bengal & Sikkim and Assam & Meghalaya and at isolated places over East Madhya Pradesh, Bihar, Jharkhand, Telangana, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours IST yesterday to 0530 hours IST of today): at isolated places over Odisha, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Tripura, Vidarbha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, West Bengal & Sikkim and Assam & Meghalaya.
- Maximum Temperature Departures as on 06-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Himachal Pradesh, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, West Rajasthan, West Madhya Pradesh, Uttar Pradesh and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi and Punjab; at many places over North Interior Karnataka; at a few places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe and at isolated places over East Rajasthan, East Madhya Pradesh, Konkan & Goa, Telangana, Odisha, West Bengal & Sikkim and Assam & Meghalaya. They were below normal (-1.6°C to -3.0°C) at isolated places over Saurashtra & Kutch and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.7°C was reported at Churu (West Rajasthan).
- Minimum Temperature Departures as on 06-10-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over East Madhya Pradesh and Bihar; above normal (1.6°C to 3.0°C) at a few places over West Rajasthan and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Saurashtra & Kutch, East Uttar Pradesh, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana, Chandigarh & Delhi and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over West Uttar Pradesh and at isolated places over East Rajasthan and Vidarbha and near normal over rest parts of the country. Yesterday, the lowest minimum

temperature of 16.5°C was reported at Datia (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 07 October (Day 1): Heavy rainfall very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Bihar, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Moderate thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 08 October (Day 2): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Moderate thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 09 October (Day 3): Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Coastal Andhra Pradesh, Telangana and Tamil Nadu, Puducherry & Karaikal. Thundersquall (speed reaching 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands. Moderate thunderstorm with lightning at isolated places over East Uttar Pradesh, West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Winds (50-60 kmph) very likely over Central Bay of Bengal and north Andaman Sea.
- 10 October (Day 4): Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka. Thundersquall (speed reaching 50-60 kmph) likely at isolated places over Andaman & Nicobar Islands. Moderate thunderstorm with lightning at isolated places over East Uttar Pradesh, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry &

Karaikal. Strong Winds (50-60 kmph) likely over Central Bay of Bengal and north Andaman Sea.

- 11 October (Day 5): Heavy to very heavy rainfall likely at isolated places over Odisha and Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over Andaman & Nicobar Islands, West Bengal & Sikkim, Chhattisgarh, Vidarbha, Konkan & Goa, Coastal & North Interior Karnaataka, Telangana and Tamil Nadu, Puducherry & Karaikal. Thundersquall (speed reaching 50-60 kmph) likely at isolated places over Andaman & Nicobar Islands. Moderate thunderstorm with lightning at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, West Bengal & Sikkim, East Uttar Pradesh, Chhattisgarh, Vidarbha, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Winds (50-60 kmph) likely over Central Bay of Bengal and north Andaman Sea
- The weather outlook for seven days i.e., 07 to 15 October 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 clear weather prevailed during this week with no rainfall. The maximum temperature remain above normal by 1 to 2 0C and was in the range of 33.2 to 35.2 0C. The minimum temperature remain variable and was in the range of 19.4 to 24.40C. The morning and evening relative humidity were observed between 71 to 83 % and 53 to 63 %, respectively. The total evaporation during this week was observed 40.2 mm and bright sunshine in the range of 2.1 to 8.5 hrs per day.

Contingency measure:

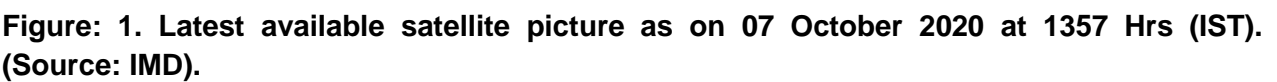
- Paddy: Harvest the early maturing varieties of rice when 80 per cent grains in panicle are golden colour and keep rice sheaves in the field for drying to allow remaining grains to mature before threshing. Rogue out the false smutted ear heads and off type plant from normal and late sown rice crop in order to maintain the purity of the crop. Due to the prevailing weather conditions rice crop infected with brown spot under such situation spray the crop with mancozeb @ 0.25%. Give 2-3 sprays at 15 days interval. Give irrigation as per requirement of crop.
- Maize : Harvest the early sown maize crop as and when the cobs dry, turns brown and grain hardens. Pick up the cobs and put them on the dry threshing floors for

thorough drying. The fields that have been vacated after harvesting of maize crop are required to be ploughed and planked for conservation of moisture to keep them ready for succeeding rabi crop.

- Kharif Pulses: Give irrigation to late sown crop as per requirement. Destroy young larvae of hairy caterpillar in gregarious phase. If population is high, spray Quinalphos @ 0.03% or Dichlorvos @ 0.05%. Picking of mature pods is recommended to avoid shattering loss.
- Oilseed : The sowing of toria (RSPT-1, RSPT-2, RSPR-3) should be done under conserved soil moisture without any further delay. Intercrop toria with gobi sarson (GSS-1). Treat the seed with Captan/Thiram @ 3g/kg seed against alternaria blight/seedling rot. Apply whole quantity of P, K, S & half dose of N at the time of sowing.
- Vegetables: Sowing of winter vegetables like potato (var. K Badshah, K. Sinduri, K. Chipsona & K. Sona), radish (var. P. Reshmi), carrot (var. Pusa Kesar, P. Yamdagani), Turnip (var. PTWG), garlic (var. local, yamuna safed agrifound parvati), Methi (var. pusa early bunching and kasuri methi) and spinach (var. all green) can be done during this period. Prepare fields and go for transplanting of these crops without any further delay. Install pheromone trap @ 20/acre to control leaf webber.
- Summer fodder: Farmers can go for second cut in mixed fodder and after each cut apply irrigation and nitrogenous fertilizer.
- Floriculture: Give irrigation as per requirement of crop. Transplanting of seedlings in the field is recommended. Nursery raising of winter annuals is recommended. Due to long dry spell and further chances of no rainfall apply irrigation on need basis.
- Horticulture: Keep the basin area clean. Remove the water suckers. Irrigate the plants wherever necessary. Spray 2,4-D @ 10ml/lit of water to control citrus drop in bearing plants.
- Sericulture: Water logging in newly transplanted mulberry saplings should be avoided by digging proper exit channels. Unsold cocoons harvested during spring season should be kept in well ventilated rooms to avoid dampening in wire mesh racks for aeration and avoiding fungal and rodent attacks.
- Apiculture: Feed the colonies with sugar water solution in the ratio of 2:1. Protect colonies from high temperature by shifting to shady areas/ cooler places or cover with wet gunny bags. Keep colonies in stand to give protection against ants.
- Mushroom: Maintain room temperature below 30 °C. Maintain humidity of cropping room between 80-90%. Farmers may go for compost preparation. Clean and sterilize the cropping room. Maintain 70-80% humidity in cropping room. Book the spawn.

- Poultry : Water supply should be adequate and add vitamin C in water. Proper ventilation must be maintained at poultry house. Maintain hygiene. Use fan in poultry houses due to high humidity.
- Fisheries: 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)
- Live stock: Supplementary mineral mixture with 50 gm iodized salt regularly to the milking and pregnant animals. Provide clean water for drinking to the animals at frequent intervals to save animals from heat stroke. Give vaccination against BQ and HS. Ensure green fodder to the livestock.

07-10-2020/(0800 to 0827) GMT
07-10-2020/(1330 to 1357) IST



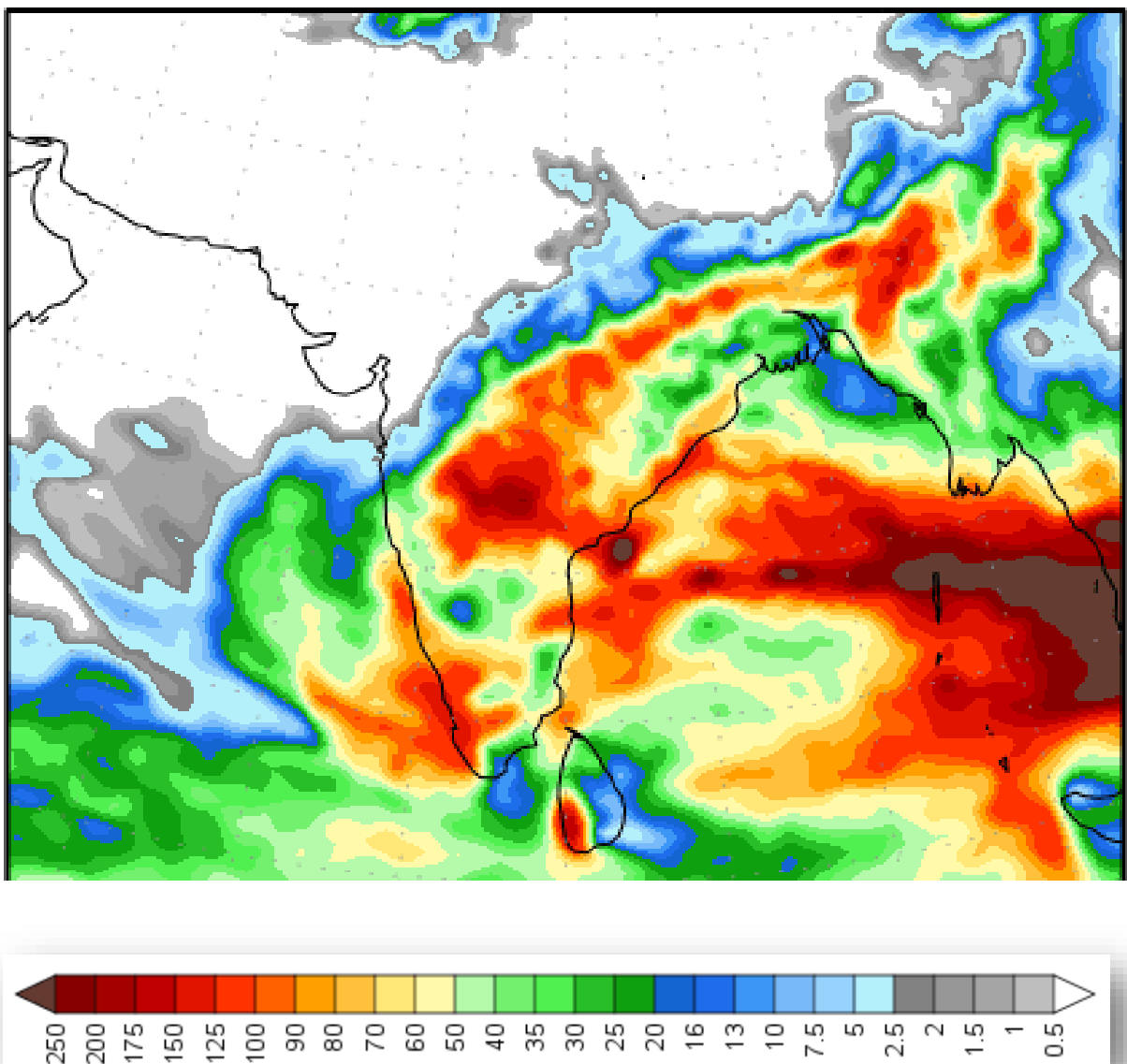


Figure:2. Precipitation forecast for 07 to 15 October 2020 (Source: NOAA NCEP).

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