

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 24 August 2019**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- A low pressure area has formed over coastal Odisha & neighbourhood. It is likely to move west-northwestwards across central India during next 2-3 days. Western part of the monsoon trough is likely to shift southwards during the same period. Also a fresh Low Pressure Area is likely to form over north Bay of Bengal & neighbourhood around 28th August.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Odisha, Chhattisgarh, Vidarbha and Madhya Pradesh during next 24 hours and over Madhya Pradesh and East Rajasthan on 25th & 26th August and over Gujarat on 26th & 27th August. Isolated extremely heavy falls is also likely over West Madhya Pradesh on 25th and over Gujarat region on 27th August.
- Moist easterlies converging along the foothills of the Himalayas could cause fairly widespread rainfall with isolated heavy to very heavy falls over Uttar Pradesh, Uttarakhand and Himachal Pradesh during next 2-3 days.
- Strengthening of monsoon westerlies over the Arabian Sea is likely to cause enhanced rainfall over coastal & ghat areas of Maharashtra and Karnataka during next 3-4 days.
- The images showing the latest satellite picture in 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 East Uttar Pradesh, Bihar, Chhattisgarh, West Bengal & Sikkim, Odisha, East Madhya Pradesh, Jharkhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, Lakshadweep, Kerala & Mahe, Coastal & North Interior Karnataka, Telangana and Konkan & Goa; at many places over Punjab, Assam & Meghalaya, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Madhya Maharashtra; at a few places over East Rajasthan, Vidarbha and Tamilnadu, Puducherry & Karaikal and at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana,

Chandigarh & Delhi, West Uttar Pradesh, Saurashtra & Kutch, Marathawada, South Interior Karnataka and Rayalaseema.

- Heavy rainfall observed at isolated places over Madhya Pradesh, Coastal Andhra Pradesh, Gangetic West Bengal, Coastal Karnataka, Konkan & Goa and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours IST yesterday to 0830 hours IST today): at a few places over East Uttar Pradesh and Bihar; at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, East Rajasthan, Madhya Pradesh, Bihar, Chhattisgarh, Odisha, West Bengal & Sikkim, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Maximum temperature departures as on 23-08-2019: Maximum temperatures were appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at isolated places over Himachal Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at most places over Uttarakhand and Marathwada; at many places over West Rajasthan, Gujarat, Jharkhand, Konkan & Goa and Madhya Maharashtra; at a few places over Haryana, Chandigarh & Delhi, East Rajasthan, Gangetic West Bengal and Vidarbha; at isolated places over Jammu & Kashmir, Madhya Pradesh, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at a few places over Telangana and Andaman & Nicobar Islands; at isolated places over Assam & Meghalaya; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at isolated places over Odisha and Coastal Karnataka and near normal over rest parts of the country.
- Minimum temperature departures as on 24-08-2019: Minimum temperatures are above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at most places over Punjab; at many places over Uttarakhand, at a few places over Haryana, Chandigarh & Delhi and Rajasthan; at isolated places over Jammu & Kashmir, Gujarat, Vidarbha, Konkan & Goa and Sub-Himalayan West Bengal & Sikkim. They are appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at isolated places over Madhya Pradesh; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at a few places over Marathawada and at isolated places over Assam & Meghalaya, East Uttar Pradesh and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country.

#### **Weather Warning during next 5 days (IMD)**

- 24 August (Day 1): Heavy to very heavy rainfall very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha and Coastal Karnataka; Heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Jharkhand, Gangetic West Bengal, Gujarat region, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over West Bengal &

Sikkim, Jharkhand and Bihar. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over southwest Arabian Sea, southeast & westcentral Bay of Bengal, north Andaman Sea and Andaman & Nicobar Islands. Squally weather is likely to prevail over Odisha. Fishermen are advised not to venture into these areas.

- 25 August (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over West Madhya Pradesh; Heavy to very heavy rainfall at isolated places over East Rajasthan, Gujarat region and Coastal Karnataka; Heavy rainfall at isolated places over West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Odisha, Andaman & Nicobar Islands, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over southwest Arabian Sea, southeast & westcentral Bay of Bengal, north Andaman Sea, Andaman & Nicobar Islands and along & off Konkan coast. Squally weather is likely to prevail over Odisha. Fishermen are advised not to venture into these areas.
- 26 August (Day 3): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Gujarat region; Heavy to very heavy rainfall at isolated places over East Rajasthan and Saurashtra & Kutch; Heavy rainfall at isolated places over West Rajasthan, West Madhya Pradesh, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand. Strong winds, speed reaching 45-55 kmph, are likely to prevail over southwest Arabian Sea, southeast Bay of Bengal, north Andaman Sea, Andaman & Nicobar Islands and along & off Gujarat-Konkan coasts. Fishermen are advised not to venture into these areas.
- 27 August (Day 4): Heavy to very heavy rainfall likely at isolated places over Gujarat; Heavy rainfall at isolated places over West Rajasthan, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand. Strong winds, speed reaching 45-55 kmph, are likely to prevail over southwest Arabian Sea, southeast Bay of Bengal, north Andaman Sea, Andaman & Nicobar Islands and along & off Gujarat-Konkan coasts. Fishermen are advised not to venture into these areas.
- 28 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Gujarat; Heavy rainfall at isolated places over West Rajasthan, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand. Strong winds, speed reaching 45-55 kmph, are likely to prevail over southwest Arabian Sea, southeast Bay of Bengal, north Andaman Sea, Andaman &

Nicobar Islands and along & off Gujarat-Konkan coasts. Fishermen are advised not to venture into these areas.

- The weather outlook for the period of seven days i.e., 24 August to 1 September 2019 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thunder shower may occur over Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Pradesh, Odisha, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka, Coastal & South Interior Karnataka, Kerala, Tamil Nadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

### **Himachal Pradesh**

#### **Weather condition:**

Light to very heavy rainfall received in isolated places in Himachal Pradesh state during past few days. The maximum temperature was ranged between 22-28°C and minimum temperature was ranged between 17-20° C.

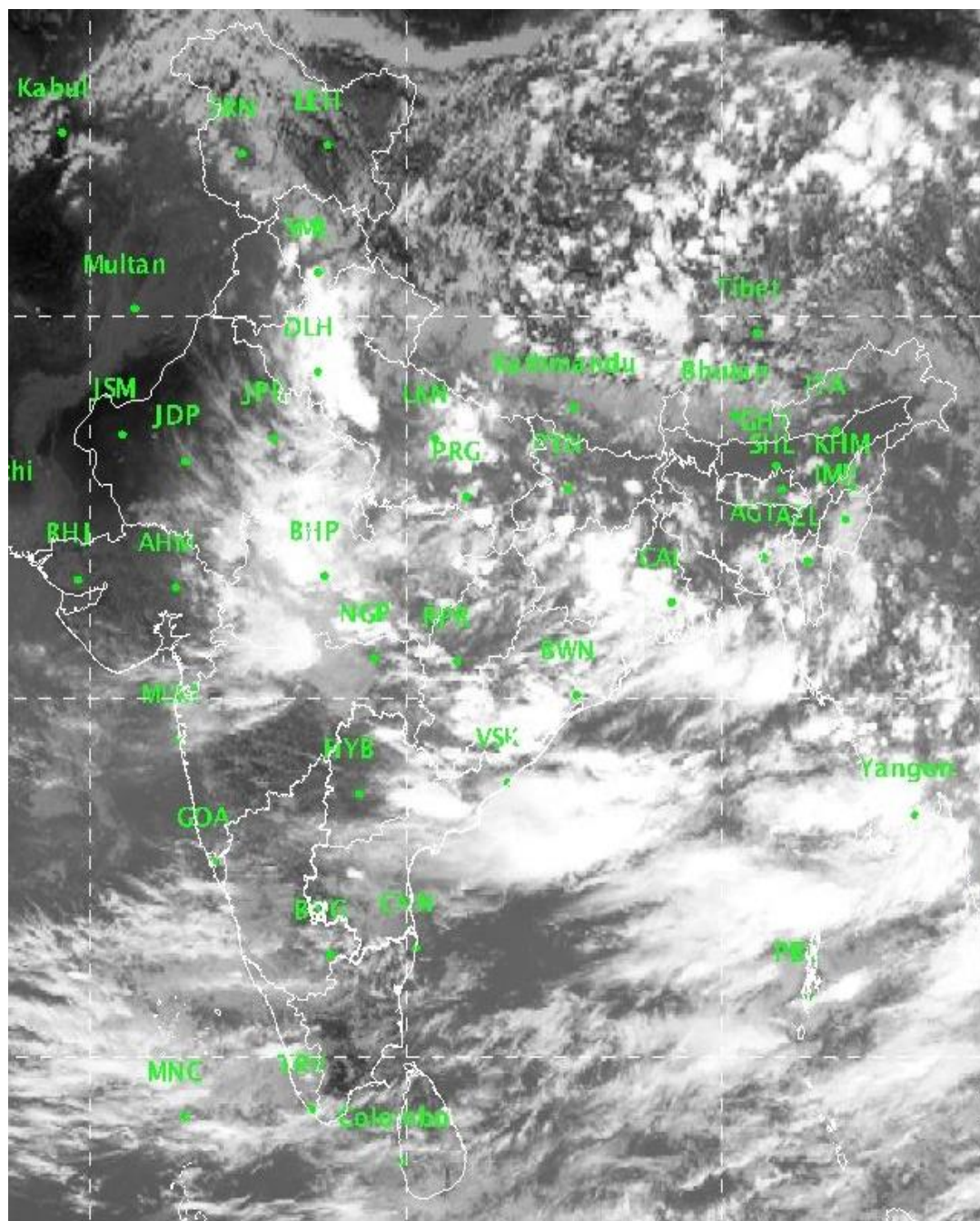
#### **Contingency measure:**

- Kharif Crops: Farmers are advised to make bund for conserving rain water in the field. Bund should be higher and wider so that more rain water can be conserved in the field. Monitoring paddy against attack of blast and brown spot is advised. Spraying of Carbendazim @ 2.0 gram per litre of water is advised. Sometimes, in the paddy nursery, if upper leaves of the paddy seedlings become yellow and lower leaves remain green, it indicates the iron deficiency. Spraying of ferrous sulphate @ 0.5 % with 0.25% lime solution is recommended to overcome this problem. Rice hispa is expected in rice fields, for management clear the grasses from bunds or spray cypermethrin 10Ec (1ml /litres) or chloropyriphos 20 EC (2.5ml /litres) of water. Rice leaf folder is also appearing for control spray chloropyriphos 20 EC (2.5ml /litres) of water. In Maize stalk rot is expected in this weather for control drench maize fields with bleaching powder @16 kg/ha a week before tasseling. In Maize stem borer is expected, for control put pinch of thimate granules in affected plant.
- Stored Grains: Weather is conducive for attack of stored grains pests like rice weevil, lesser grain borer and rice moth. In Grain store bins put one pouch of celhpos (3g) or

quickphos (12g) or Fumino pouch in a wet cloth in the middle of bin and keep the bin airtight for some time.

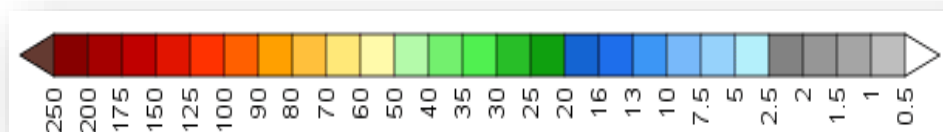
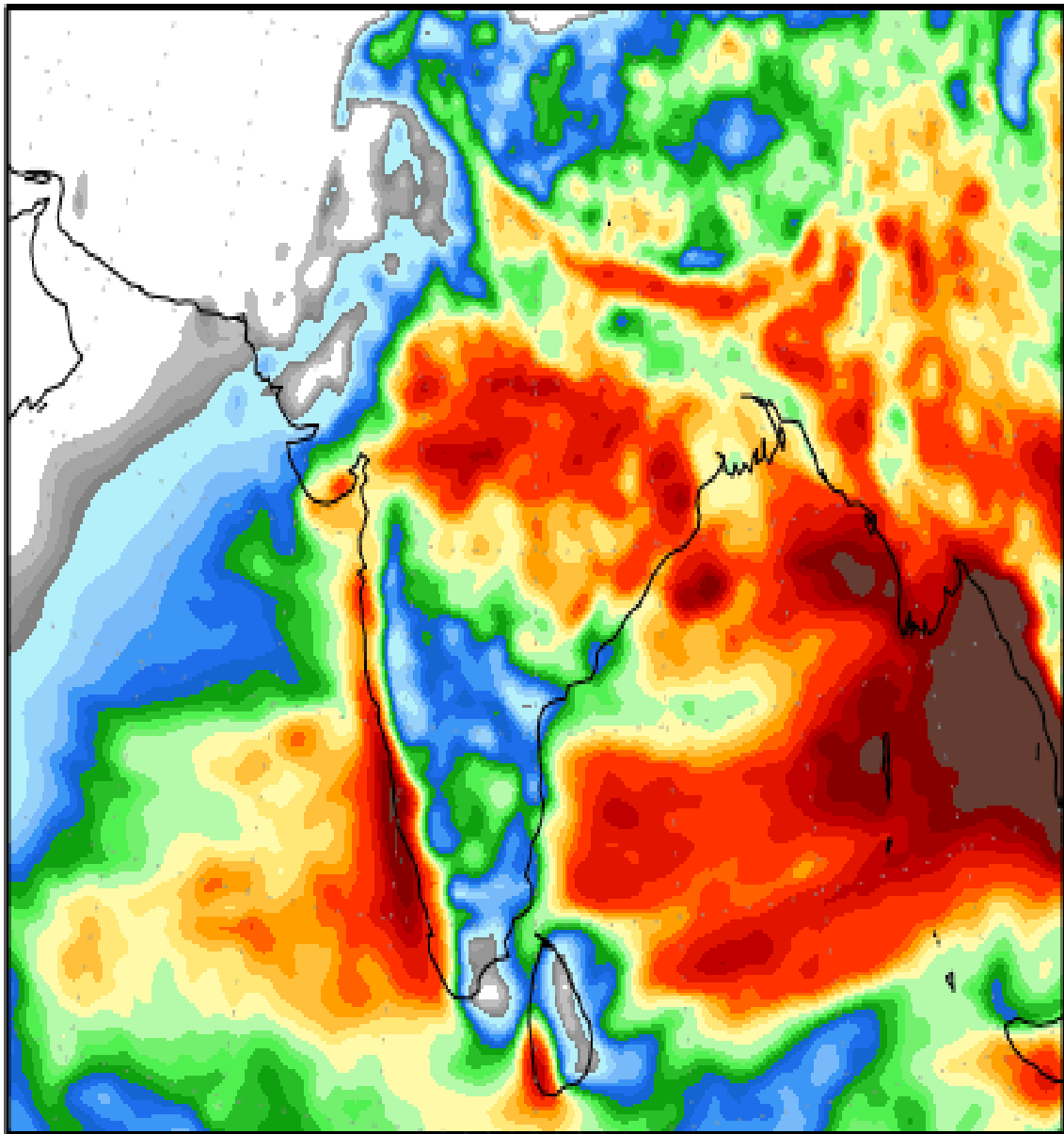
- Fodder Crops: In mid hill region root slips of setaria, hathi grass may be planted in grasslands.
- Vegetable Crops: Ensure proper drainage in field in view of rainfall. Farmers are advised to monitor their fields regularly. Spray of Imidacloprid 17.8 % SC @ 1.0 ml / 3 lit of water is recommended against white flies and other sucking pests in all crop and vegetables when sky is clear. In tomato brinjal, chilli and capsicum crops, apply dose of urea with intercultural operation. For shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. Also install pheromone trap @25 per hectare If pest population is high, spraying of spinosad 48 EC @ 1 ml /4 litres of water is advised when sky is clear. In present weather conditions, rouging of viral infested crop should be done in chilli. Infected crop should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 0.3 ml per litre of water is advised to control the vector.
- French Bean And Okra: After harvesting of mature lady finger application of urea @ 5-10 kg/acre and thereafter application of light irrigation is advised. In sub tropical climate mite and jassid are expected in lady chilli and cucurbitaceous, for control spraying of phosmite @ 1.5 - 2 ml per litre of water is advised to control mite and spraying of Dimethoate 30 EC @ 2 ml/liter of water is advised against jassid, when sky is clear.
- Poly House Agriculture: Keep the open top and side bent on clear day and close on rainy day. Advised tomato and capsicum sowing and transplanting. For control of Powdery mildew, Aphids and spodoptera spray recommended chemicals. Ensure drainage near polyhouses. One week before sowing of crops, keep yellow sticky trap in polyhouse and after transplanting drench plant with amidochloropid.
- Tea: Continue picking in tea at 8-10 days interval to maintain the quality and productivity. Lopping of shade tress advised in tea orchards. Plucking of tea leaves can be continued at 8-10 days interval. Milli bug is appearing in the orchards, for control spray Deltamethrin (Decis 2.8EC @1340ml in 750 litres of water for one hectare. For the control of mites spray recommended chemicals. Spray immediately after plucking.
- Livestock: Consult veterinary doctor for FMD vaccination. Give mixture of hay & green fodder. Weather is conducive for ticks and mites attack on animals. For control spray Butox @ 2.0 ml per litres of water. Add mineral mixture in dry hay for feeding to animals in these days. Ensure clean drinking water to animals in monsoon season. Don't allow water to stagnate in cowsheds. Advised not to allow animals to eat lantana these days.





**Figure: 1. Latest available satellite picture as on 24 August 2019 at 13:30 Hrs (IST).**

**(Source: IMD).**



**Figure: 2. Precipitation forecast for 24 August to 1 September 2019 (Source: NOAA NCEP).**