

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

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

### **Daily Crop Weather Information as on 04 September 2019**

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

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

- The Low Pressure area lies over northwest Bay of Bengal & adjoining north Odisha-West Bengal coasts along with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height. The monsoon trough at mean sea level passes through Bikaner, Agra, Satna, Ambikapur, Jharsuguda and thence southeastwards to centre of low pressure area over northwest Bay of Bengal & adjoining north Odisha-West Bengal coasts. The off-shore trough at mean sea level runs from south Maharashtra coast to Kerala coast.
- Under the influence of the above conditions, fairly widespread to widespread rainfall with isolated heavy to very heavy falls likely over Chhattisgarh, Odisha, Coastal Andhra Pradesh, Telangana, Vidarbha during next 48 hours and over Madhya Pradesh, West Coast and Gujarat state in the forecast period.
- Subdued rainfall activity likely to continue over Jammu & Kashmir, Punjab, Haryana and West Rajasthan during next 2-3 days.
- The images showing the latest satellite picture in figure. 1

#### **Main Weather Observations (IMD)**

- Rain/Thunder showers observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over East Madhya Pradesh, Gujarat Region, Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe; at many places over East Uttar Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam, Odisha and Andaman & Nicobar Islands; at a few places over West Madhya Pradesh, Gangetic West Bengal and Lakshadweep and at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Rajasthan, Saurashtra & Kutch, North Interior Karnataka, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura.
- Thunderstorm observed (from 2030 hours IST of yesterday to 0530 hours IST of today): at isolated places over East Madhya Pradesh, Chhattisgarh, Jharkhand, West

Rajasthan, Tamil Nadu, Puducherry & Karaikal, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura.

- Maximum temperature departures as on 03-09-2019: Maximum temperatures were markedly above normal ( 5.1°C or more) at many places over Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya, Uttarakhand and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh and West Uttar Pradesh; at many places over Sub-Himalayan West Bengal & Sikkim and East Madhya Pradesh; at a few places over Jammu & Kashmir, East Uttar Pradesh, Bihar, Gangetic West Bengal and Lakshadweep and at isolated places over Rajasthan, West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal, Saurashtra & Kutch and Haryana, Chandigarh & Delhi. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Coastal Andhra Pradesh & Yanam and Telangana; below normal (-1.6°C to -3.0°C) at many places over Karnataka; at a few places over Madhya Maharashtra and Rayalaseema and at isolated places over Odisha and Marathwada and near normal over rest of the country.
- Minimum temperature departures as on 03-09-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Arunachal Pradesh and at isolated places over Jammu & Kashmir, Punjab, Himachal Pradesh, Uttarakhand and Rajasthan; above normal (1.6°C to 3.0°C) at most places over West Uttar Pradesh and Bihar; at many places over Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Gujarat region and Andaman & Nicobar Islands; at a few places over Madhya Pradesh, Assam & Meghalaya and Saurashtra & Kutch and at isolated places over East Uttar Pradesh, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Vidarbha and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at a few places over Telangana and at isolated places over Odisha and near normal over rest parts of the country.

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

- 04 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over East Rajasthan, East Madhya Pradesh, Odisha, Gujarat Region, Coastal Karnataka and Konkan & Goa; Heavy Rainfall at isolated places over Uttarakhand, Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Saurashtra & Kutch, Madhya Maharashtra, Telangana, South Interior Karnataka and Kerala. Thunderstorm accompanied with lightning very likely over Jharkhand. Strong winds, speed reaching 40-50 kmph, are very likely to prevail over west-central & southwest Arabian Sea and central & adjoining south Bay of Bengal. Squally weather likely to prevail along & off Odisha-West Bengal coasts, North Andaman Sea. Fishermen are advised not to venture into these areas.

- 05 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over East Rajasthan and West Madhya Pradesh; Heavy Rainfall at isolated places over Uttarakhand, East Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Odisha, Andaman & Nicobar Islands, Gujarat, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka and Kerala. Strong winds, speed reaching 40-50 kmph, are very likely to prevail over west-central & southwest Arabian Sea and central & adjoining south Bay of Bengal. Fishermen are advised not to venture into these areas.
- 06 September (Day 3): Heavy to very heavy rainfall likely at isolated places over Gujarat Region; Heavy Rainfall at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Konkan & Goa, Coastal Karnataka and Kerala. Strong winds, speed reaching 40-50 kmph, are likely to prevail over west-central & southwest Arabian Sea. Rough to very rough sea condition is likely to prevail over Gujarat Region. Fishermen are advised not to venture into these areas.
- 07 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Gujarat Region; Heavy Rainfall at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka, Saurashtra & Kutch and Kerala. Strong winds, speed reaching 40-50 kmph, are likely to prevail over west-central & southwest Arabian Sea. Rough to very rough sea condition is likely to prevail over Gujarat Region. Fishermen are advised not to venture into these areas.
- 08 September (Day 5): Heavy rainfall likely at isolated places over Saurashtra & Kutch, Konkan & Goa, Coastal Karnataka, Kerala, Madhya Pradesh, Chhattisgarh, Odisha, Assam & Meghalaya, and Nagaland Manipur, Mizoram & Tripura. Strong winds, speed reaching 40-50 kmph, are likely to prevail over west-central & southwest Arabian Sea. Rough to very rough sea condition is likely to prevail over Gujarat Region. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e.*, 04 to 12 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)

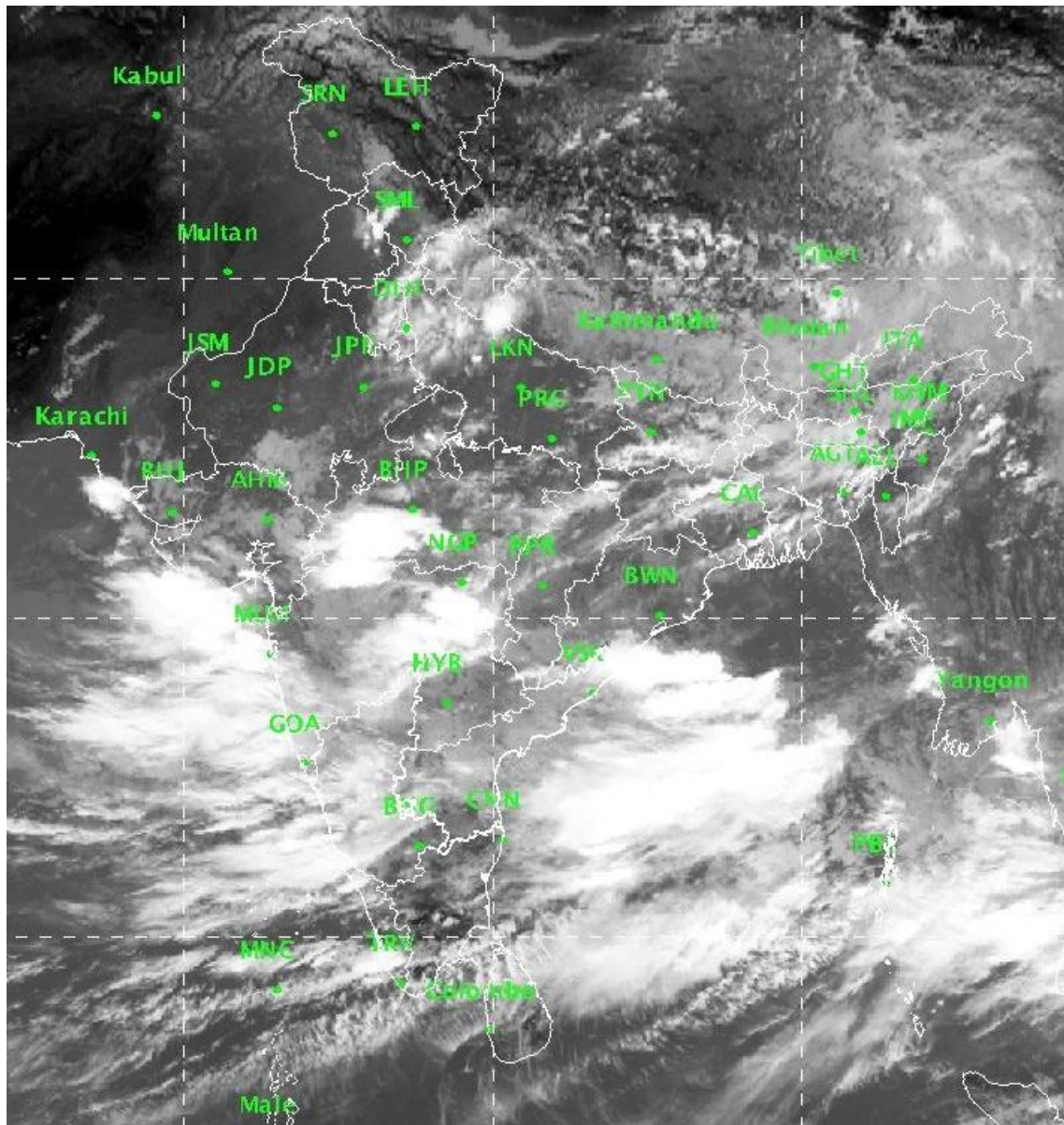
### Andhra Pradesh

#### Weather condition:

Very light rainfall is received in Andhra Pradesh state during past few days. The maximum temperature was ranged between 32-33°C and minimum temperature was ranged between 22-23°C.

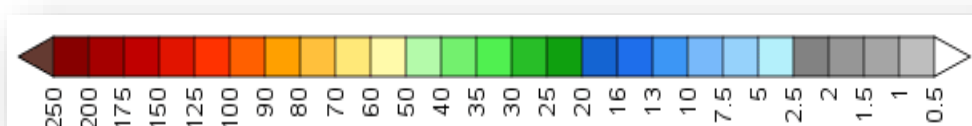
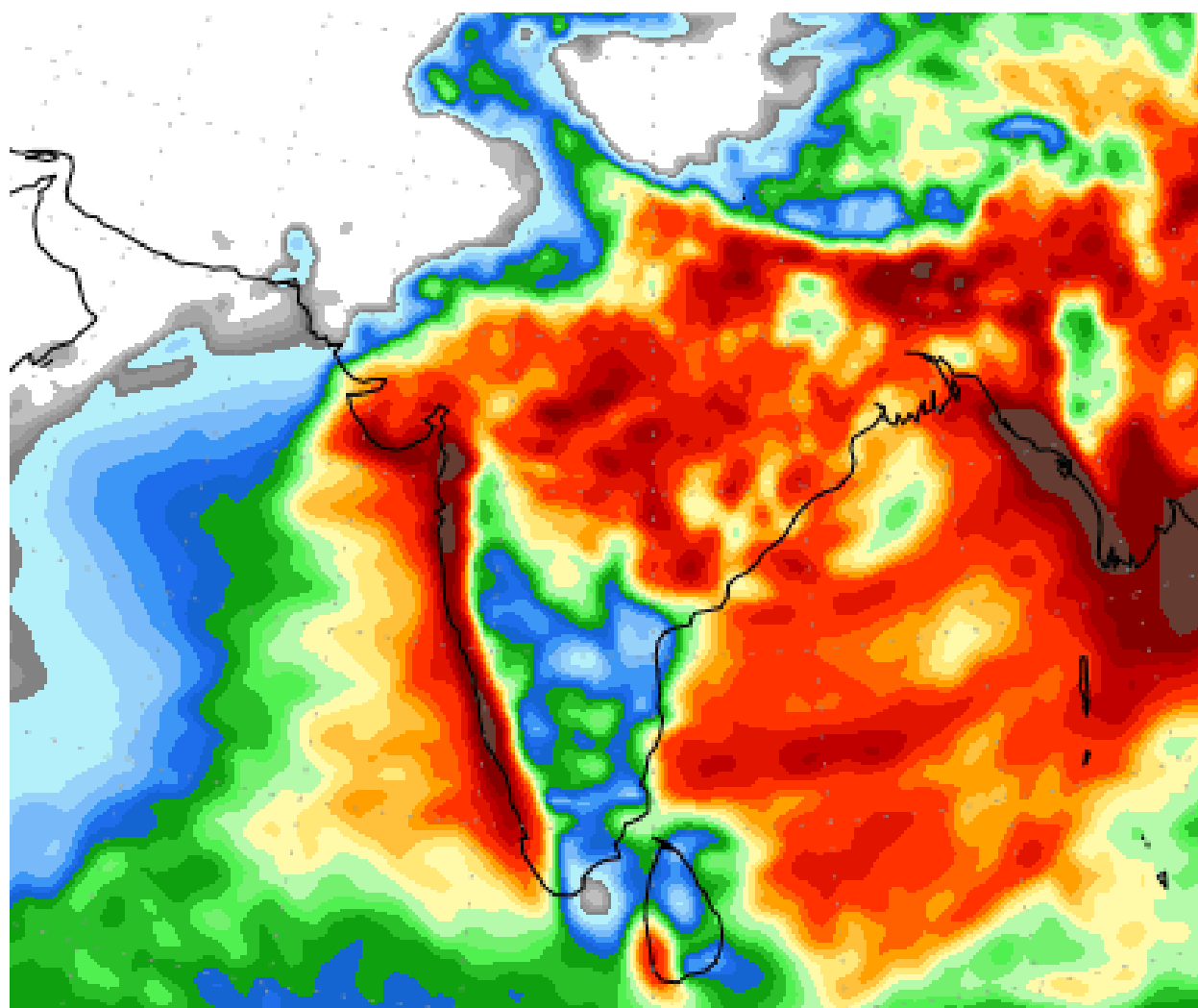
#### Contingency measure:

- Farmers are advised wait and sow contingency crops like bajra, korra, jowar, cowpea and horsegram only after receiving sufficient rainfall.
- Farmers are advised to pinch off the top leaves before transplanting in the main field for controlling incidence of stem borer in paddy. Apply 70 kg urea, 200 kg SSP and 26 kg MOP/acre during final puddling, 70 kg urea/acre at tillering stage and during panicle initiation stage apply 70 kg urea and 26 kg MOP fertilizers per acre. Make alley ways of 20 cm wide @ 2m interval after transplanting and it will allow air circulation in the field and helps to reduce pest and disease incidence. Apply Oxadiargil 35 gm at 3-5 DAT for weed control.
- Farmers who have sown direct seeded rice are advised to provide shallow irrigation and takeup thinning and gap filling. When transplanting late aged seedlings they are advised to increase the plant population, retain 4-5 plants per hill and increase the nitrogen dose by 25 % and apply the nitrogen in two splits i.e 70 % at basal and remaining 30 % at panicle initiation stage. Castor semilooper incidence is observed in bathallapalli, kadiri, atmakur and kalyandurg mandals and for control spray profenofos @2 ml per lit.
- Farmers are advised to monitor incidence of fall army worm in maize by arranging 10 pheromone traps per acre. If the trap catch is more than 10, they are advised to spray neem oil @ 5ml/L of water. Based on the intensity of the pest they can go for spraying of Thiodicarb@2g or Imamectin Benzoate @ 0.4 g or Chlorantriliniprole @ 0.4 ml per liter of water. By utilizing rainfall farmers are advised to go for top dressing of urea @ 50 kg/ac to the crop of 30-35 days and 50-55 days age.



**Figure: 1. Latest available satellite picture as on 04 September 2019 at 1100Hrs (IST).**

**(Source: IMD).**



**Figure:2. Precipitation forecast for 04 to 12 September 2019 (Source: NOAA NCEP).**