

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

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

### **Daily Crop Weather Information as on 20 August 2019**

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

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

- Due to Moist easterlies and the presence of the remnant cyclonic circulation over northwest Uttar Pradesh & neighbourhood, Uttarakhand and Uttar Pradesh are likely to experience fairly widespread rainfall with isolated heavy falls during next 24 hours.
- The Low Pressure Area lies over Bihar and adjoining areas of north Jharkhand and East Uttar Pradesh. Under its influence, fairly widespread to widespread rainfall with isolated heavy falls likely over Bihar, East Uttar Pradesh and Chhattisgarh during next 24 hours and over Madhya Pradesh during next 72 hours.
- Under the influence of an east-west shear zone across south peninsula, fairly widespread to widespread rainfall is likely over south peninsular India. Isolated heavy falls are likely over Rayalaseema, South Interior Karnataka and Tamilnadu on today.
- 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 Himachal Pradesh; at many places over Uttarakhand; at a few places over Saurashtra & Kutch, Madhya Pradesh, Vidarbha, Coastal Karnataka, Uttar Pradesh, Jharkhand, Coastal Andhra Pradesh & Yanam and Lakshadweep and at isolated places over Haryana, Chandigarh & Delhi, Rajasthan, Gujarat Region, Bihar, Odisha, Chhattisgarh, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- Thunder storm observed (from 0830 hours IST yesterday to 0530 hours IST of today): at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Jammu & Kashmir, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Rayalaseema, Bihar and Assam & Meghalaya.

- Maximum temperature departures as on 19-08-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Chhattisgarh; at isolated places over Marathwada, Madhya Maharashtra, Konkan & Goa and Rayalaseema; above normal (1.6°C to 3.0°C) at most places over Telangana and Kerala & Mahe; at many places over Vidarbha, South Interior Karnataka, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over Madhya Pradesh, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Odisha; at isolated places over Gangetic West Bengal, Bihar, Gujarat and East Rajasthan. They were markedly below normal (-5.1°C or less) at isolated places over Himachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu & Kashmir, Jharkhand and Arunachal Pradesh; below normal (-1.6°C to -3.0°C) at many places over Uttarakhand; at isolated places over Punjab and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country.
- Minimum temperature departures as on 19-08-2019: Minimum temperatures were above normal (1.6°C to 3.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Uttarakhand, East Rajasthan, Vidarbha, Telangana, North Interior Karnataka, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu & Kashmir and at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh and West Madhya Pradesh and below normal (-1.6°C to -3.0°C) at isolated places over Punjab, East Madhya Pradesh, Odisha, Gangetic West Bengal, South Interior Karnataka, Lakshadweep and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country.

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

- 20 August (Day 1): Heavy rainfall very likely at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Rayalaseema, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Gangetic West Bengal and Odisha.
- 21 August (Day 2): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand and heavy rainfall at isolated places over East Rajasthan, Uttar Pradesh, Madhya Pradesh, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Odisha. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over southwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 22 August (Day 3): Heavy rainfall likely at isolated places over Uttarakhand, East Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Arunachal Pradesh,

Nagaland, Manipur, Mizoram & Tripura, Odisha, Sub-Himalayan West Bengal & Sikkim and Coastal Karnataka. Strong winds, speed reaching 45-55 kmph, are likely to prevail over south Bay of Bengal. Fishermen are advised not to venture into these areas.

- 23 August (Day 4): Heavy rainfall likely at isolated places over Uttarakhand, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha and Assam & Meghalaya. Strong winds, speed reaching 45-55 kmph, are likely to prevail over south Bay of Bengal. Fishermen are advised not to venture into these areas.
- 24 August (Day 5): Heavy rainfall likely at isolated places over Uttarakhand, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha and Assam & Meghalaya. Strong winds, speed reaching 45-55 kmph, are likely to prevail over south Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days i.e., 20 August to 28 August 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)

### **Assam**

#### **Weather condition:**

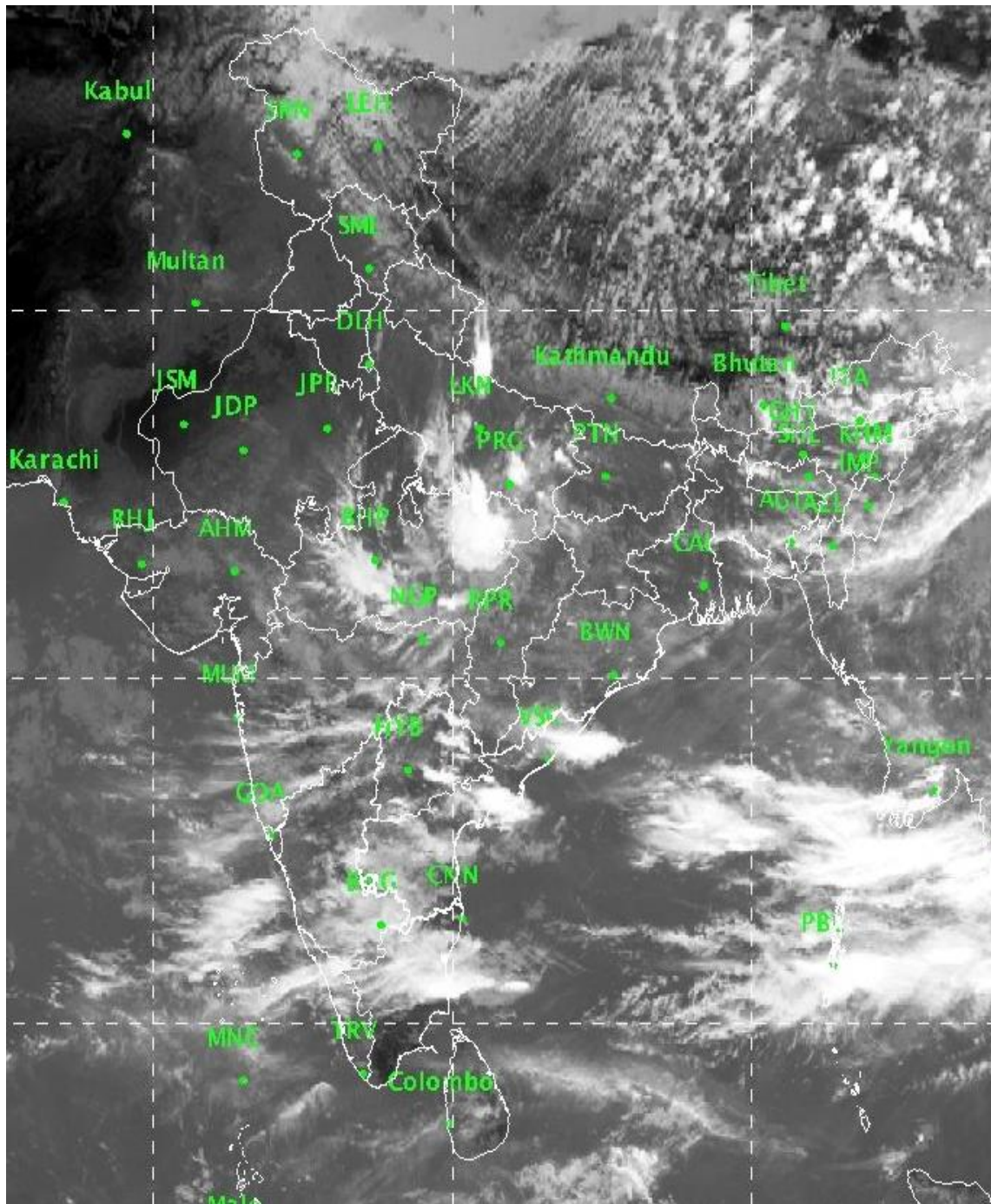
- Very light to heavy rainfall received in isolated places in Assam state during past few days. The maximum temperature was ranged between 32-37°C and minimum temperature was ranged between 23-27° C

#### **Contingency measure:**

- Sali rice: In flood affected areas farmers are advised to grow rice varieties like Andrew Sali, Biraj, Monohar Sali, Kmj-1-19-1, Luit, Kapilee, etc by mid August. 2. Sesamum (Summer): Collect and sow the recommended varieties of sesame like Gauri, Madhavi, Punjab Tall No-1 etc. 3. Summer vegetables: Make provisions in the gardens so that excess rain-water is quickly drained out during the ensuing rainy season. If the attack of fruit fly, red pumpkin beetle and epilechna beetle in summer gourds may observed, spray endosulphon or malathion 50 EC @ 1 ml per litre in the

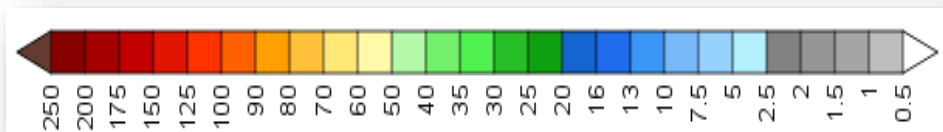
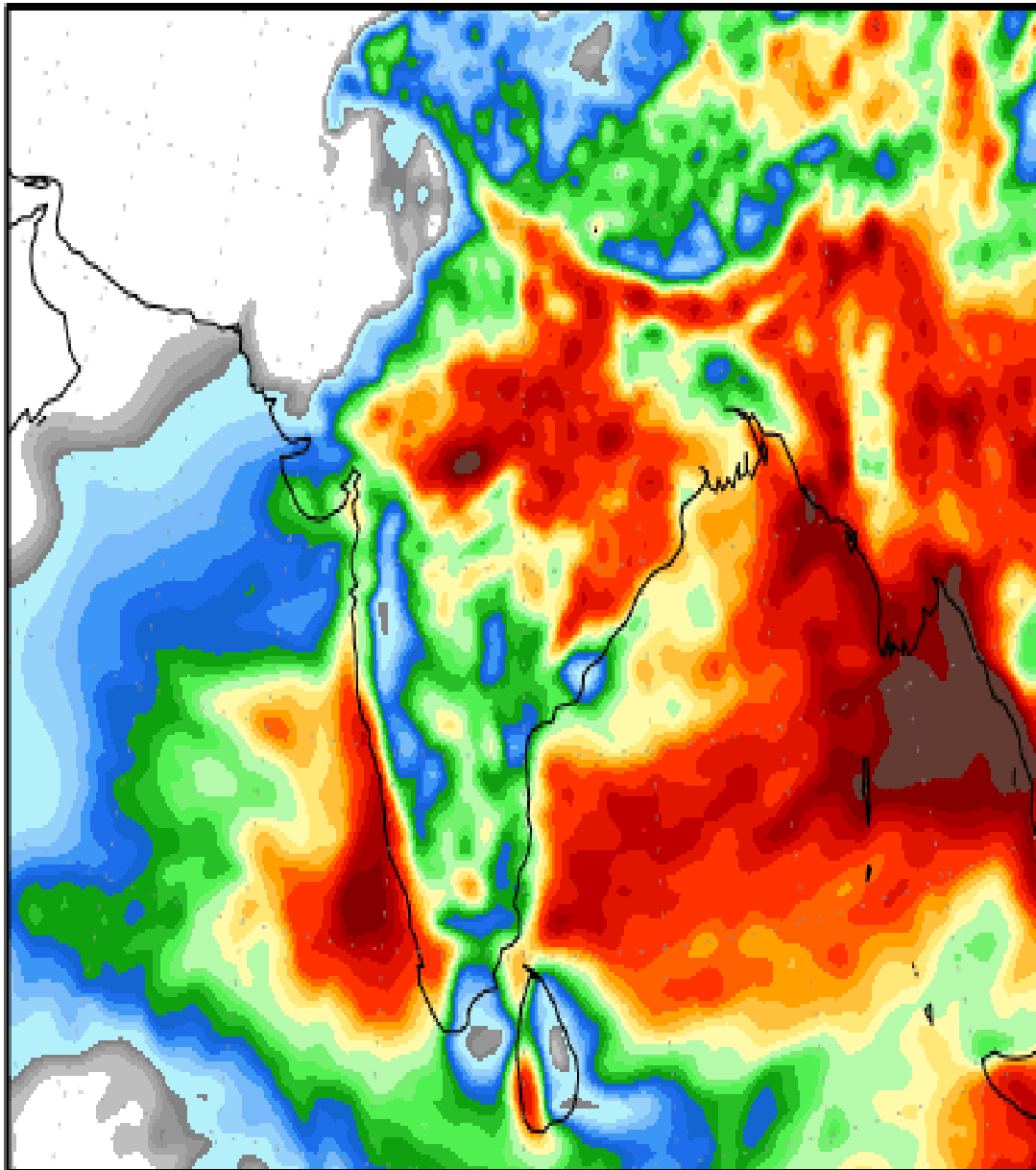
field to control these insects when the weather is sunny. Gamosis disease in citrus plants can be controlled by draining excess water from the field. The affected portion should be scraped with a little extra healthy tissue without injure the wood and then smear Bordeaux paste(1.2 linseed oil). 5.Sugarcane: The second earthing up of sugarcane should be done two months after the first earthing up. The second earthing up will transform the trenches/furrows into ridges. The furrows thus made in between the ridges will facilitate drainage of excess water during high rainfall.

- Poultry: Poultry growers can use the hybrid variety of chicken like BV 300, Babcock, BV 380 etc for egg production purpose.



**Figure: 1. Latest available satellite picture as on 20 August 2019 at 11:30 Hrs (IST).**

**(Source: IMD).**



**Figure: 2. Precipitation forecast for 20 August to 28 August 2019 (Source: NOAA NCEP).**