

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

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

### **Daily Crop Weather Information as on 19 August 2019**

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

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

- The Low Pressure Area lies over western parts of Gangetic West Bengal & adjoining Jharkhand. The associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwards with height. Under its influence, fairly widespread to widespread rainfall with isolated heavy to very heavy falls likely over Gangetic West Bengal, Odisha, Jharkhand and Bihar during next 24 hours.
- 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 Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Bihar, Odisha, Gujarat region, Konkan & Goa, Coastal & South Interior Karnataka, Lakshadweep and Andaman & Nicobar Islands; at many places over Jharkhand, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Rayalaseema, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; at a few places over west Uttar Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, West Rajasthan, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal and at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, and Marathwada.
- Heavy rainfall at isolated places over Telangana and Rayalaseema.
- Thunder storm observed (from 2030 hours IST of yesterday to 0530 hours IST of today): at a few places over Jammu & Kashmir, at isolated places over Punjab, West Uttar Pradesh, Jharkhand, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka.
- Maximum temperature departures as on 18-08-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Vidarbha; at isolated places over North Interior Karnataka; above normal (1.6°C to 3.0°C) at many places over East Madhya Pradesh, Marathwada, Konkan & Goa and Chhattisgarh; at a few

places over East Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Coastal Karnataka; at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Gujarat Region and Kerala & Mahe. They were markedly below normal ( $-5.1^{\circ}\text{C}$  or less) at a few places over Rayalaseema; at isolated places over Himachal Pradesh and Tamil Nadu, Puducherry & Karaikal; appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at most places over Uttarakhand; at many places over Jharkhand; at a few places over Haryana, Chandigarh & Delhi and Odisha; at isolated places over West Uttar Pradesh and South Interior Karnataka; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at many places over West Madhya Pradesh; at a few places over Rajasthan and Andaman & Nicobar Islands; at isolated places over Punjab and Telangana and near normal over rest parts of the country.

- Minimum temperature departures as on 18-08-2019: Minimum temperatures were above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at most places over sub-Himalayan West Bengal; at many places over Telangana; at isolated places over Assam & Meghalaya, Bihar and Vidarbha. They were appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at many places over Jammu & Kashmir and at isolated places over West Madhya Pradesh and below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at most places over Punjab; at many places over Haryana, Chandigarh & Delhi and at a few places over Odisha and at isolated places over East Rajasthan, East Madhya Pradesh, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country.

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

- 17 August (Day 1): Heavy rainfall at a few places with very heavy falls at isolated places very likely over Punjab and Himachal Pradesh; Heavy to very heavy rainfall at isolated places over Jammu & Kashmir, Uttarakhand, Haryana, Chandigarh & Delhi, Rajasthan, Coastal Andhra Pradesh & Yanam and Heavy rainfall at isolated places over West Uttar Pradesh, West Bengal & Sikkim, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand, Gangetic West Bengal and Odisha. Strong winds, speed reaching 45-55 kmph, are likely to prevail over westcentral & southwest Arabian Sea. Squally weather likely to prevail over south Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- 19 August (Day 1): Heavy rainfall very likely at isolated places over Uttarakhand, East Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand and Odisha. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over westcentral & southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 20 August (Day 2): Heavy rainfall likely at isolated places over Madhya Pradesh and Chhattisgarh.
- 21 August (Day 3): Heavy rainfall likely at isolated places over Madhya Pradesh, Assam & Meghalaya and Konkan & Goa.
- 22 August (Day 4): Heavy rainfall likely at isolated places over Assam & Meghalaya, Bihar, Sub-Himalayan West Bengal & Sikkim and Konkan & Goa.
- 23 August (Day 5): Heavy rainfall likely at isolated places over Assam & Meghalaya, Bihar, Sub-Himalayan West Bengal & Sikkim and Konkan & Goa.
- The weather outlook for the period of seven days i.e., 19 August to 27 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)**

### **South Karnataka**

#### **Weather condition:**

- Very light to moderate heavy rainfall received in isolated places in South Karnataka state during past few days. The maximum temperature was ranged between 28-29°C and minimum temperature was ranged between 17-19° C

#### **Contingency measure:**

- Based on Extended Range Weather Forecast (ERWF) normal rainfall is forecasted next one week of August. Makha rainstar starts from August 16th and remains upto August 30th. The normal rainfall of Ashlesha rainstar is 62.8 mm. Right time for sowing of kharif crop sowing based on soil moisture available in field.
- Apply the recommended top dress fertilizer to redgram and maize crops based on soil wetness condition in field. Wherever, the long duration crops like redgram, and castor has been sown, undertake earthing up operation in addition to the above agronomic measures. Earthing up makes a better availability of soil moisture to the crop rows through conversion of the land into ridges and furrow system. Wherever over population of crop plants is existing, undertake thinning operation for better

availability of scarce soil moisture to the reduced population of crop plants. Due to high humidity (warm and humid weather) possibility of pest and disease build up is more in already sown crop. Take prophylactic measures depending on the crop. The following crops are suggested for sowing: month(August) Ragi (Indaf-5, 9, HR-911, GPU-26, 28, 45 & 48, PR-202, ML-365), Maize (Ganga, Deccan, Vijaya composite and Composite NAC), cowpea (KBC-1, TVX-944 and PKB-4 for vegetable purpose)

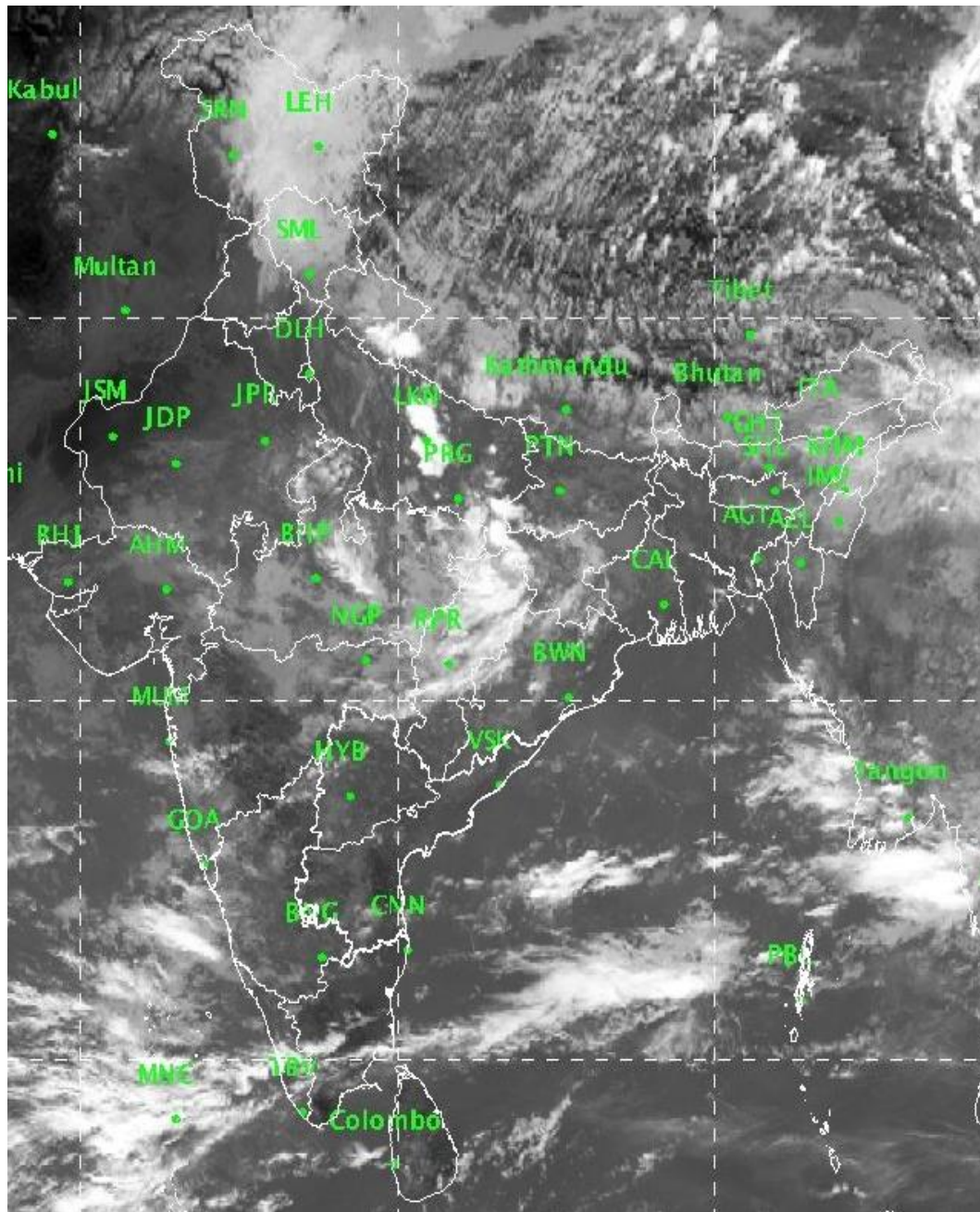
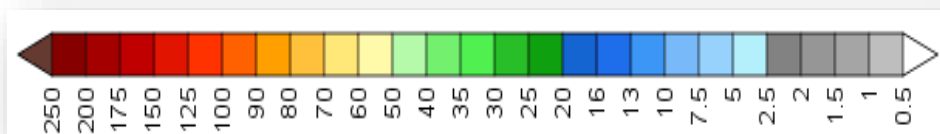
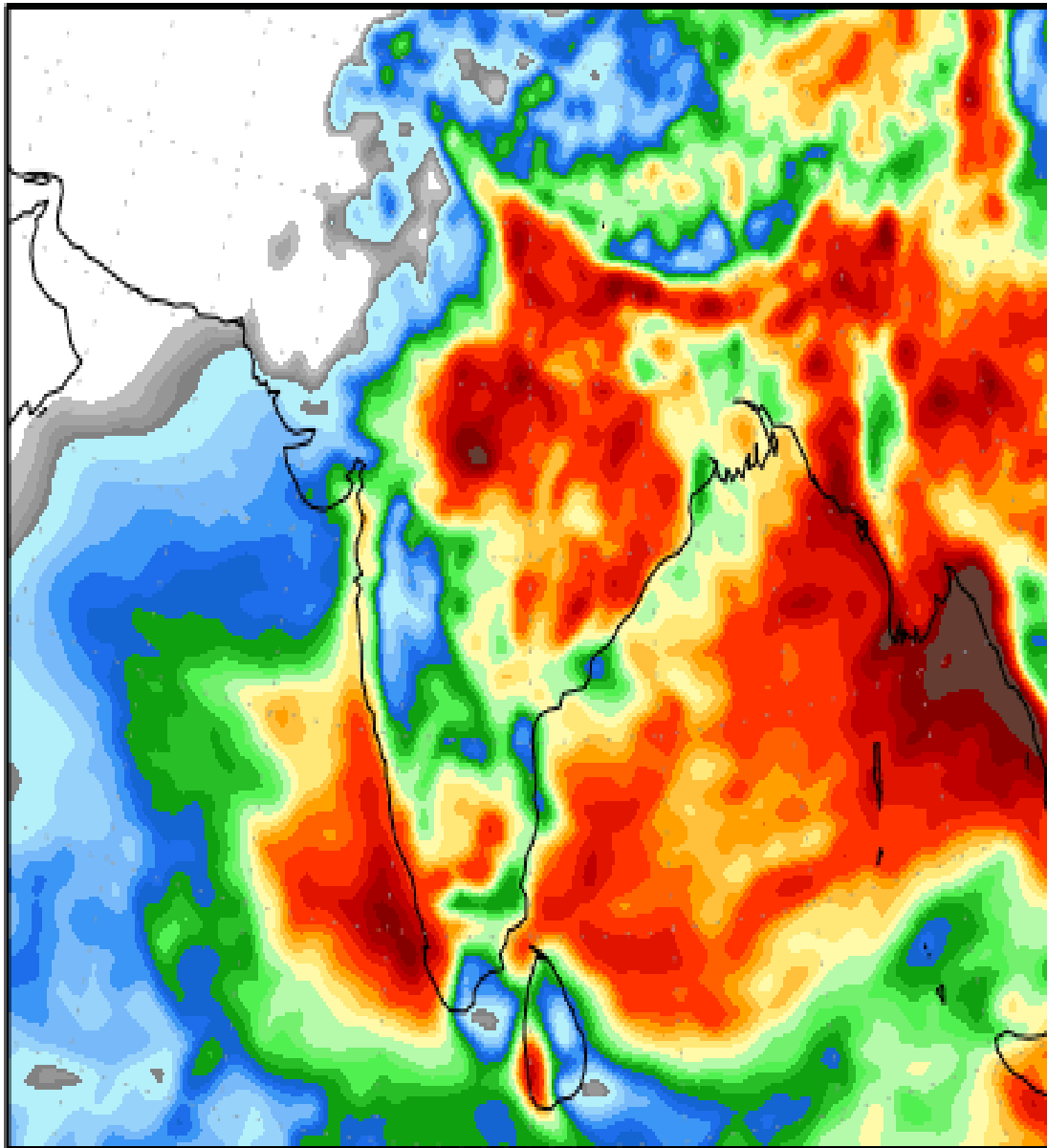


Figure: 1. Latest available satellite picture as on 19 August 2019 at 11:00 Hrs (IST).

(Source: IMD).



**Figure: 2. Precipitation forecast for 19 August to 27 August 2019 (Source: NOAA NCEP).**