

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

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

### **Daily Crop Weather Information as on 03 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, Ajmer, Guna, Jabalpur, Pendra Road, 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 2-3 days and over Madhya Pradesh, West Coast and Gujarat state in the forecast period.
- Subdued rainfall activity likely to continue over Jammu & Kashmir, Punjab, Haryana, West Rajasthan during next 3-4 days.
- The images showing the latest satellite picture in figure. 1

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

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

- Heavy to very heavy rainfall observed at isolated places over Odisha and Konkan & Goa and Heavy rainfall over Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, West Madhya Pradesh and Tripura.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over East Madhya Pradesh and Odisha and at isolated places over Saurashtra & Kutch, Chhattisgarh, West Bengal & Sikkim, Kerala & Mahe, Arunachal Pradesh, Assam & Meghalaya, West Rajasthan and West Madhya Pradesh.
- Maximum temperature departures as on 02-09-2019: Maximum temperatures were markedly above normal ( 5.1°C or more) at a few places over Assam & Meghalaya and at isolated places over Jharkhand and Sub-Himalayan West Bengal & Sikkim; appreciably above normal (3.1°C to 5.0°C) at many places over Bihar Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over Arunachal Pradesh; at isolated places over Himachal Pradesh, Madhya Pradesh, East Uttar Pradesh, Chhattisgarh and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over West Uttar Pradesh; a few places over Punjab; at isolated places over Jammu & Kashmir, Gujarat, Konkan & Goa, Tamil-Nadu, Puducherry & Karaikal, South Interior Karnataka and Odisha. They were markedly below normal ( -5.1°C or less) at isolated places over Telangana; appreciably below normal (- 3.1°C to -5.0°C) at isolated places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at a few places over West Rajasthan and at isolated places over Rayalseema, Kerala & Mahe, Coastal Karnataka and Andaman & Nicobar Islands and near normal over rest of the country.
- Minimum temperature departures as on 02-09-2019: Minimum temperatures are 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 are 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)**

- 03 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Chhattisgarh, Gujarat region, Odisha , Coastal Karnataka and Konkan & Goa; Heavy Rainfall at isolated places over East Uttar Pradesh, East Rajasthan, Madhya

Pradesh, Vidarbha, Madhya Maharashtra, Saurashtra & Kutch, Marathwada, Assam & Meghalaya, Coastal Andhra Pradesh, Telangana, Rayalaseema, Karnataka, Tamil-Nadu, Puducherry & Karaikal and Kerala. Thunderstorm accompanied with lightning very likely over Assam & Meghalaya, Arunachal Pradesh and 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 Maharashtra-Goa-Karnataka coasts and Odisha -West Bengal coasts, North Andaman Sea. Fishermen are advised not to venture into these areas.

- 04 September (Day 2): 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 3): Heavy to very heavy rainfall 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 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, 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 5): 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.

- The weather outlook for the period of seven days *i.e.*, 03 to 11 September 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower 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)

### West Bengal

#### Weather condition:

Very light to light rainfall is received in West Bengal state during past few days. The maximum temperature was ranged between 32-33°C and minimum temperature was ranged between 25-26°C.

#### Contingency measure:

- Aman Rice: Light to moderate rainfall is expected in coming days. At the time of panicle initiation, keep 5 to 7 cm water in the field. In case of timely sown crop, around 45 days after transplanting, apply 2nd top dressing. Mix the fertilizer thoroughly with soil after proper intercultural operations. Keep the field weed free. For early sown Aman rice, hot and humid weather favours Gundhi bug infestation during flowering. If 5-6 bugs/m<sup>2</sup> are found, spray Carbaryl 50% or Chlorpyrifos 20% to control the attack.
- Jute: For extracting good quality of fibre, proper retting should be done. Avoid mud or banana stem for retting operation of Jute.
- Vegetables: Under high humidity and cloudy condition, combined attack of Downy mildew and Mosaic may be seen in bitter gourd and pointed gourd. Apply Ridomil Gold MZ (@2 gm per lt) to control the attack. Under present hot and humid situation, attack of white fly has been reported from many areas leading to the spread of yellow mosaic virus in Okra. Spray Difenthiuron @ 0.75g per litre of water to prevent the further spread of the disease. Present temperature and humidity

conditions are congenial for the rapid spread of thrips and mites leading to the leaf curling in chilli. As a control spray Diafenthiuron @ 0.75g per litre of water at 7-10 days interval.

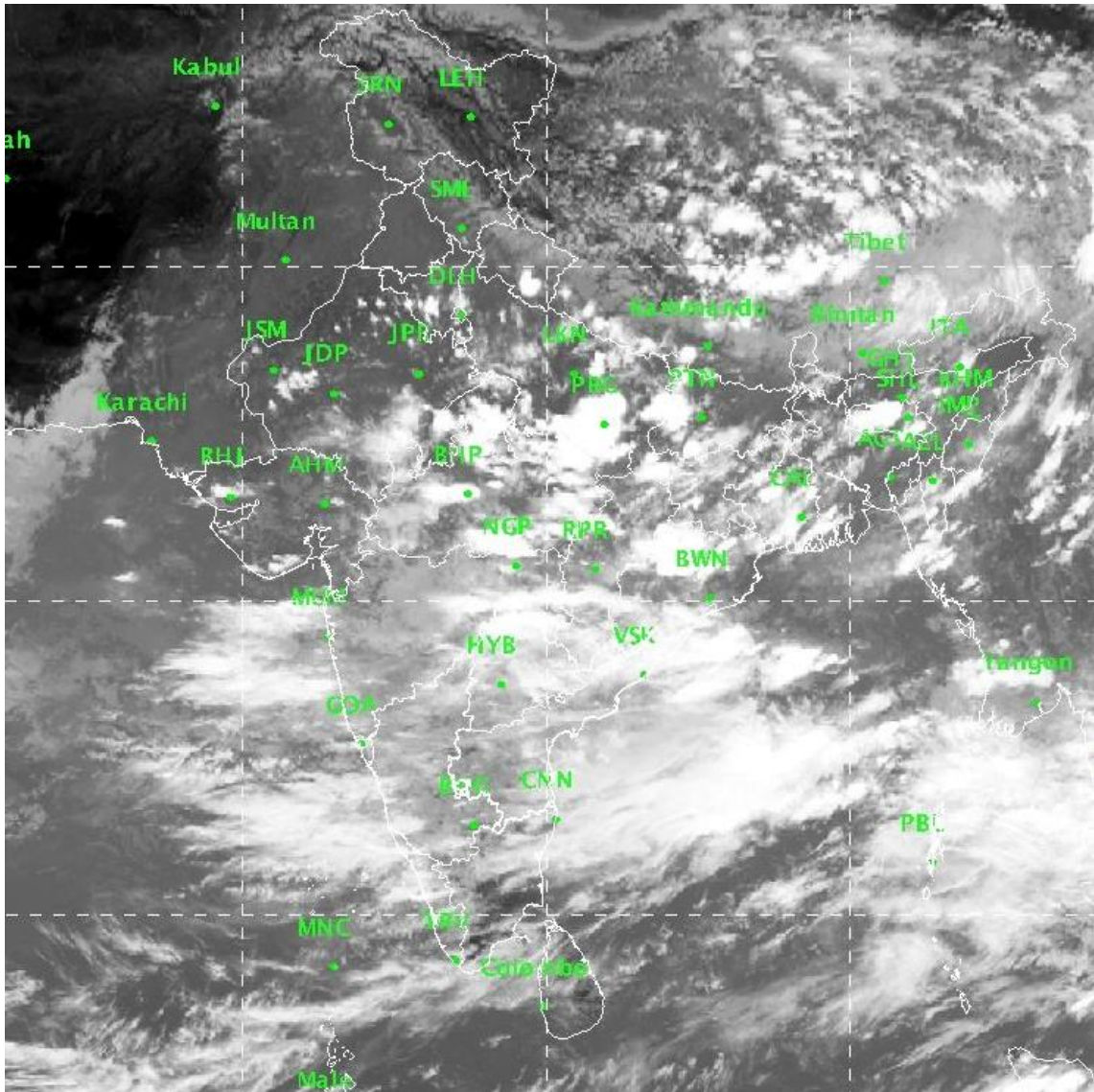


Figure: 1. Latest available satellite picture as on 03 September 2019 at 1400Hrs (IST).

(Source: IMD).

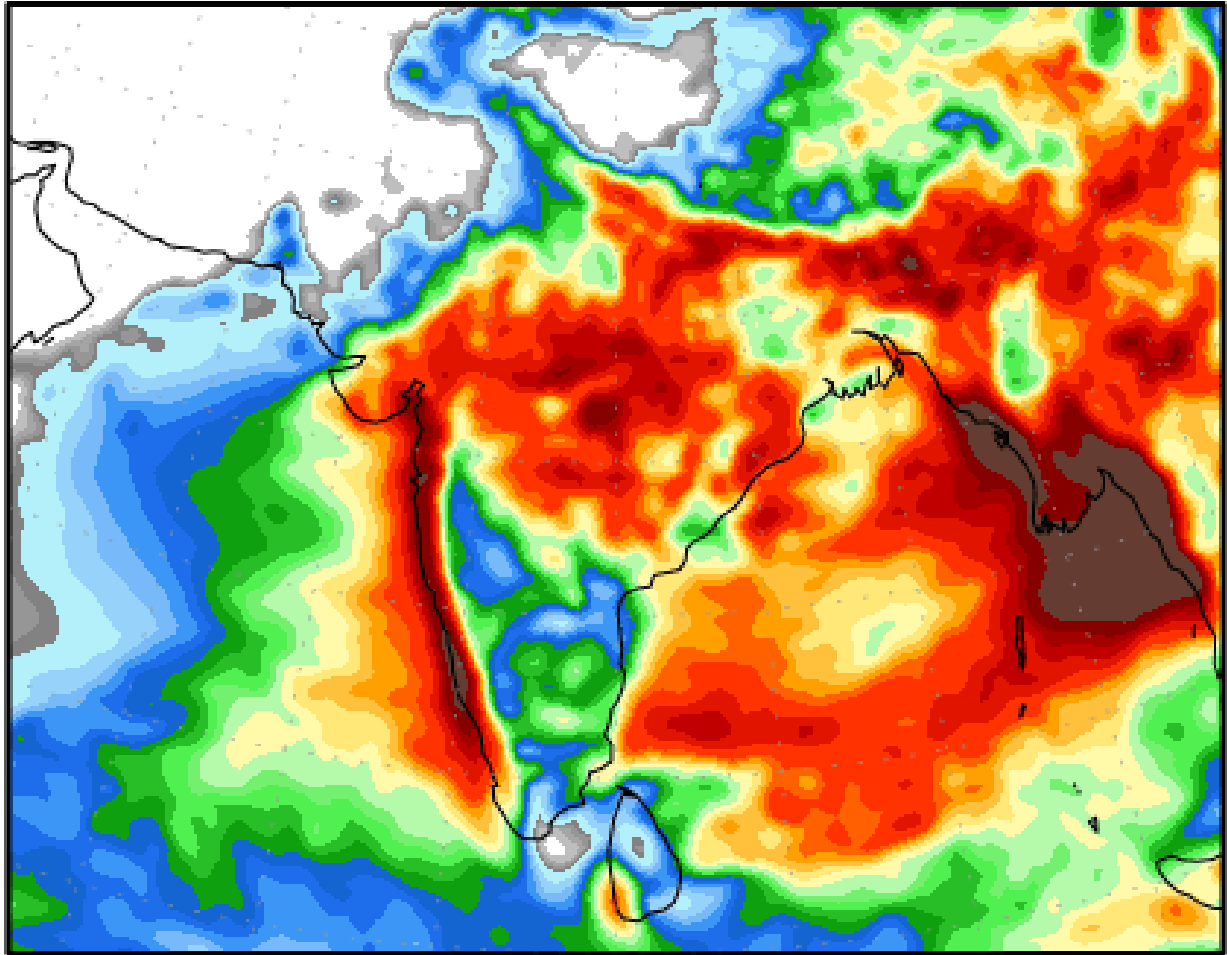


Figure:2. Precipitation forecast for 03 to 11 September 2019 (Source: NOAA NCEP).