

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

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

### **Daily Crop Weather Information as on 17 September 2019**

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

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

- The Low Pressure area lies over north Madhya Pradesh & adjoining south Uttar Pradesh. It is very likely to weaken during next 24 hours. The western parts of the monsoon trough is in its near normal position. However, its eastern part has shifted northwards and runs towards northeast India. A cyclonic circulation lies over Malay peninsula & neighbourhood which is likely to shift northwards gradually along Arakan coast and move over to north Bay of Bengal around 19th-20th September, thereby activating the east-west shear zone during these days.
- Under the influence of the above systems, fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over Andaman & Nicobar Islands during next 24 hours and north Konkan and Madhya Maharashtra during 19th-20th September; Heavy rainfall over East Madhya Pradesh, East Uttar Pradesh, Gujarat region, Tamil Nadu, Coastal Karnataka, Coastal Andhra Pradesh and Telangana during next 48 hours.
- Due to the likely increase in rainfall over Nepal till 18th September, there could be a rise in water levels in the rivers of East Uttar Pradesh and Bihar during 17th-20th September.
- 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 many places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Madhya Maharashtra, North Interior Karnataka, Andaman & Nicobar and Kerala & Mahe; at a few places over Uttar Pradesh, West Madhya Pradesh, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal and at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, East Madhya Pradesh, Gujarat Region, Jharkhand, Marathwada, Vidarbha, Telangana, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Lakshadweep, Rayalaseema, Chhattisgarh and Gangetic West Bengal.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at a few places over Bihar and at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu and Kerala.
- Maximum temperature departures as on 16-09-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Himachal Pradesh and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, West Rajasthan, Bihar and Nagaland, Manipur, Mizoram & Tripura; at a few places over Odisha; at isolated places over East Madhya Pradesh and Coastal Andhra Pradesh & Yanam. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over West Madhya Pradesh and Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at many places over Madhya Maharashtra, Vidarbha, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Gujarat Region and near normal over rest of the country.
- Minimum temperature departures as on 16-09-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Rajasthan and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many Places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Saurashtra & Kutch and West Madhya Pradesh; at a few places over Odisha and Gangetic West Bengal; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Uttar Pradesh, Madhya Maharashtra, Bihar, and Coastal Andhra Pradesh. They were below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, East Madhya Pradesh, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country.

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

- 17 September (Day 1): Heavy to very heavy rainfall at isolated places very likely over Andaman & Nicobar Islands and heavy rainfall at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Gujarat region, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with squall (wind speed 50-60 kmph) very likely to occur at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Jharkhand, West Bengal & Sikkim and Odisha. Strong winds, speed reaching 40-50 kmph, are likely to prevail over western parts of west-central & southwest Arabian Sea. Squally weather conditions are likely to

prevail over Andaman Sea, Comorin-Maldives areas and adjoining equatorial Indian ocean. Fishermen are advised not to venture into these areas.

- 18 September (Day 2): Heavy to very heavy rainfall at isolated places likely over Madhya Maharashtra and heavy rainfall at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands, Konkan & Goa, Gujarat region, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with squall (wind speed 50-60 kmph) very likely to occur at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Odisha. Strong winds, speed reaching 40-50 kmph, are likely to prevail over western parts of west-central & southwest Arabian Sea. Squally weather conditions are likely to prevail over Andaman Sea. Fishermen are advised not to venture into these areas.
- 19 September (Day 3): Heavy to very heavy rainfall at isolated places likely over Gujarat region, Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Odisha, Saurashtra & Kutch, Marathwada, Telangana and North Interior Karnataka.
- 20 September (Day 4): Heavy to very heavy rainfall at isolated places likely over Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Marathwada and Coastal & North Interior Karnataka.
- 21 September (Day 5): Heavy to very heavy rainfall at isolated places likely over Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Marathwada and Coastal & North Interior Karnataka.
- The weather outlook for the period of seven days *i.e.*, 17 to 25 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)

### Assam

#### Weather condition:

Very light to rather heavy rainfall is received in Assam state during past few days. The maximum temperature was ranged between 30-34°C and minimum temperature was ranged between 24-26°C.

#### Contingency measure:

- Sali Rice: (Tillering/ maximum Tillering stage): Farmers are advised to apply the top dressing of urea after 20-25 days of transplanting. Field should be weed free before top dressing.
- Pulses (summer): Farmers are advised to collect the seeds of black gram like T9, T27, Pant U 19 and green gram like T44, Kopergaon, ML56 etc as well as prepare the land.
- Sesamum: One weeding should be done at 20 days after sowing by khurpi or hoe.
- Summe Vegetables: Make provisions in the gardens so that excess rain-water is quickly drained out as rainfall is predicted for the next 5 days. 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.
- Animals: Due to hot weather condition farmers are advised to feed their cattle at night and cooler time.

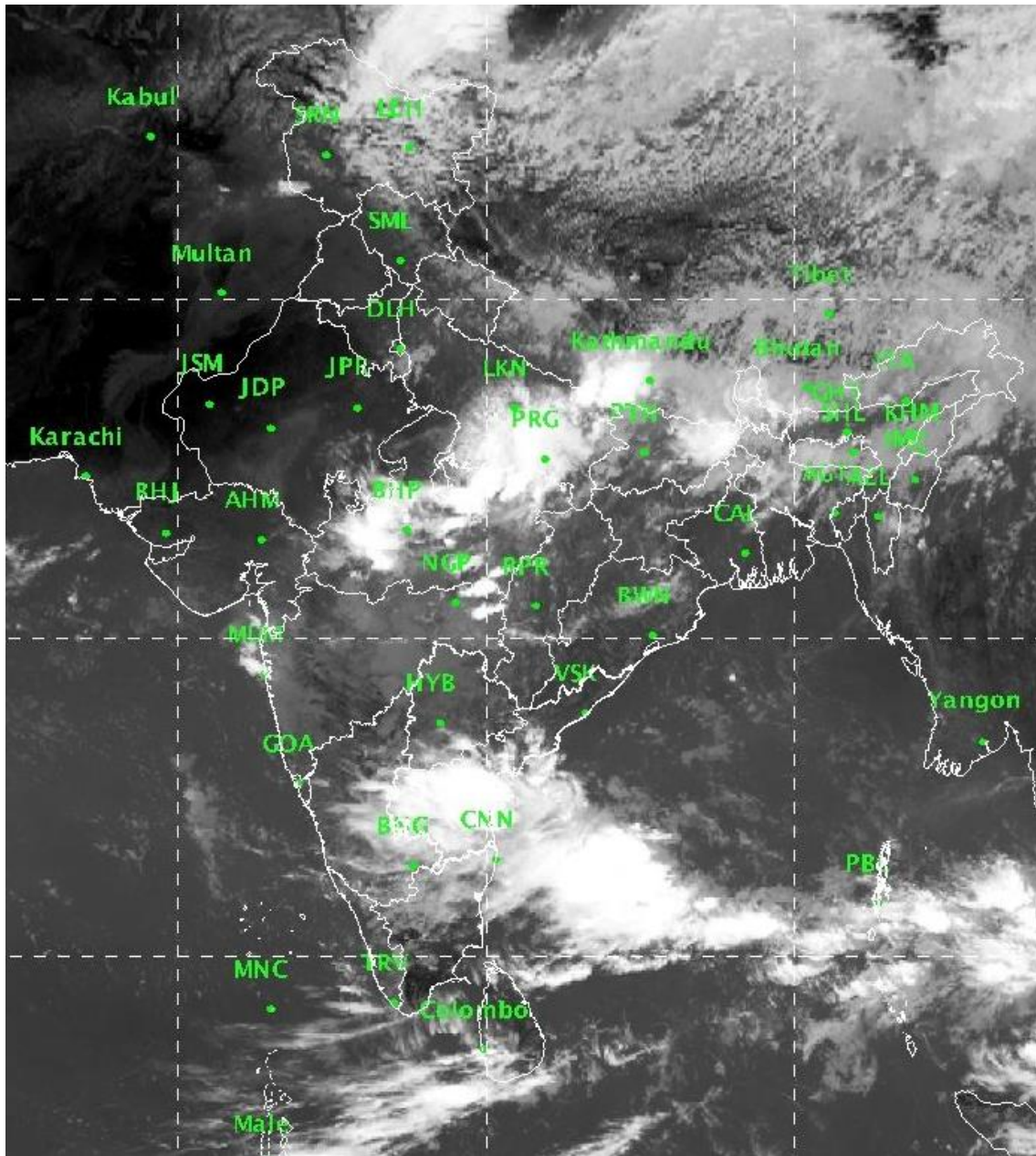


Figure: 1. Latest available satellite picture as on 17 September 2019 at 1030Hrs (IST).

(Source: IMD).



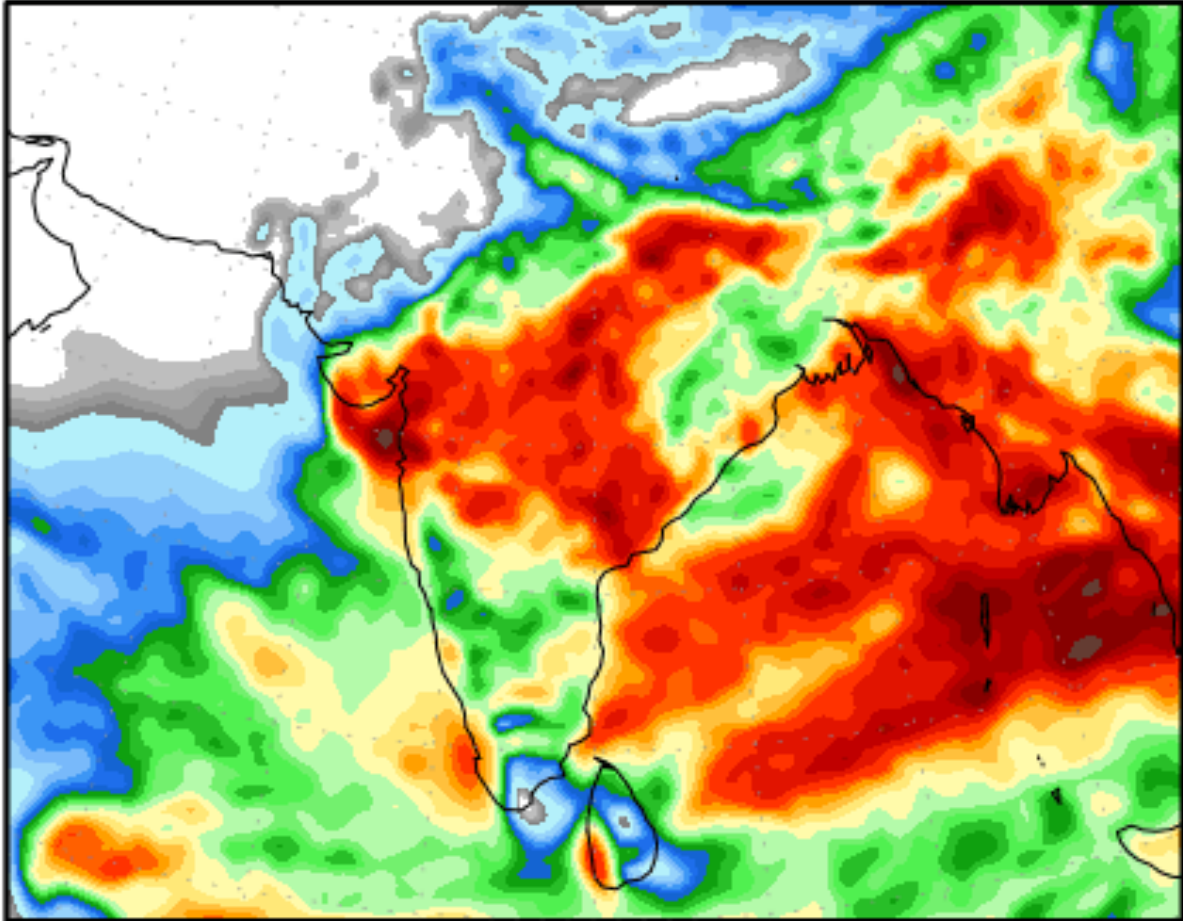


Figure:2. Precipitation forecast for 17 to 25 September 2019 (Source: NOAA NCEP).