

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

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

### **Daily Crop Weather Information as on 30 August 2018**

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

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

- The monsoon trough is likely to remain active with embedded cyclonic circulations over the trough zone during the next 4-5 days. The East West shear zone has shifted northwards and is likely to merge with the monsoon trough during next 3 days. However, there is an overall weakening of monsoon winds in association with the suppressed convection over north Bay of Bengal.
- Fairly widespread rainfall activity with isolated heavy falls are likely to continue over Madhya Pradesh, Uttar Pradesh and Uttarakhand during next 4 days. Rainfall activity is likely to increase over northeastern states, West Bengal & Sikkim, Bihar, Jharkhand, Chhattisgarh and Odisha during 31st August 02nd September and over Haryana, Chandigarh & Delhi and Punjab on 02nd & 03rd September. The ongoing isolated to scattered rainfall is likely to continue over remaining parts of northwest India, Jammu & Kashmir and Himachal Pradesh during next 2-3 days.
- Rainfall activity over Kerala, Karnataka, Andhra Pradesh, Telangana, Maharashtra and Gujarat is likely to be subdued during next 4-5 days.
- Heavy to very heavy rainfall observed at isolated places over Sub Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Himachal Pradesh, East Rajasthan, Assam, East Uttar Pradesh, Uttarakhand, Gujarat region and Konkan & Goa from 0830 hours IST of yesterday to 0830 hrs IST of today.
- The images showing the latest satellite picture in figure. 1.

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

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today ): Rain/thundershowers observed at most Places over east Rajasthan, Jharkhand, Coastal & South Interior Karnataka, Lakshadweep and Andaman & Nicobar islands; at many places over East Uttar Pradesh, Madhya Pradesh, Konkan & Goa, West Bengal & Sikkim and Assam & Meghalaya; at a few places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Odisha, Vidarbha, Gujarat region, Madhya Maharashtra and North Interior Karnataka; at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, Bihar, West Rajasthan, Coastal Andhra Pradesh and Tamilnadu & Puducherry.

- Maximum temperature departures as on 29.08.2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Himachal Pradesh and Bihar; at a few places over Coastal Andhra Pradesh, Tamilnadu and Sub Himalayan West Bengal & Sikkim; at isolated places over West Uttar Pradesh, Madhya Maharashtra, Telangana and Rayalaseema. They were appreciably below normal (3.1°C to 5.0°C) at isolated places over Gujarat region and Madhya Pradesh and below normal (1.6°C to 3.0°C) at most places over East Rajasthan and West Madhya Pradesh; at many places over Gujarat region and at isolated places over Haryana, Assam & Meghalaya, West Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Coastal Karnataka, Tamilnadu and Assam & Meghalaya.
- Today, the highest maximum temperature of 40.0°C recorded at Ganganagar (West Rajasthan) over the country.
- Minimum temperature departures as on 30.08.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over Punjab; at a few places over Himachal Pradesh, Sub Himalayan West Bengal & Sikkim and Assam & Meghalaya; at isolated places over West Uttar Pradesh, East Rajasthan, north Madhya Pradesh, Gangetic West Bengal, Saurashtra & Kutch and Tamilnadu & Puducherry. They are below normal (1.6°C to 3.0°C) at isolated places over East Uttar Pradesh, south Madhya Pradesh and Madhya Maharashtra and near normal over rest of the country.

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

- 30 August (Day 1): Heavy to very heavy rain at isolated places very likely over Sub Himalayan West Bengal & Sikkim and heavy rain at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands and Tamilnadu & Puducherry.
- 31 August (Day 2): Heavy to very heavy rain at isolated places very likely over East Madhya Pradesh and heavy rain at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu & Puducherry.
- 01 September (Day 3): Heavy to very heavy rain at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and heavy rain at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh and Arunachal Pradesh.
- 02 September (Day 4): Heavy rain at isolated places likely over Uttarakhand, Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Madhya Pradesh, West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya.
- 03 September (Day 5): Heavy rain at isolated places likely over Uttarakhand and Bihar.

- The weather outlook for the period of seven days *i.e* 30 August to 05 September 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Madhya Pradesh, Chhattisgarh, Odisha, Gujarat region, Konkan & Goa, Vidarbha, Madhya Maharashtra, Coastal & South Interior Karnataka, North Interior Karnataka, Coastal Andhra Pradesh, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar islands and North Eastern States. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

### **Chhattisgarh**

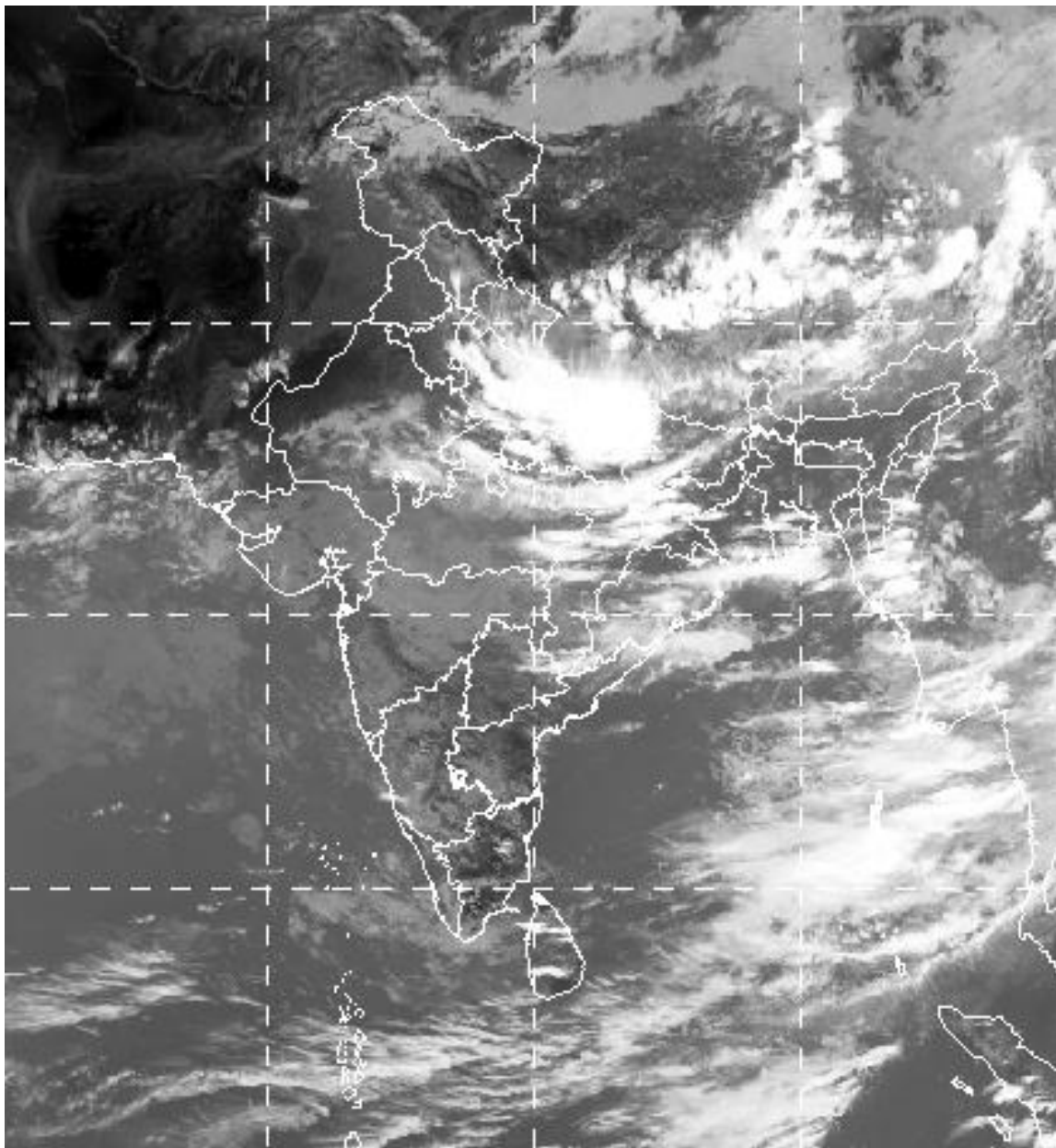
#### **Weather condition**

Light rainfall received in Chhattisgarh state during past few days. Chhattisgarh State received 862.0 mm rainfall against normal of 884.8 mm, (-3 %).

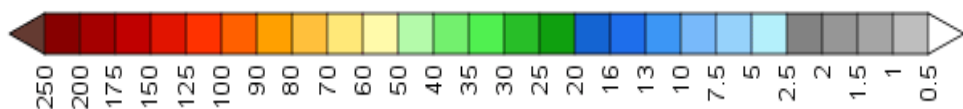
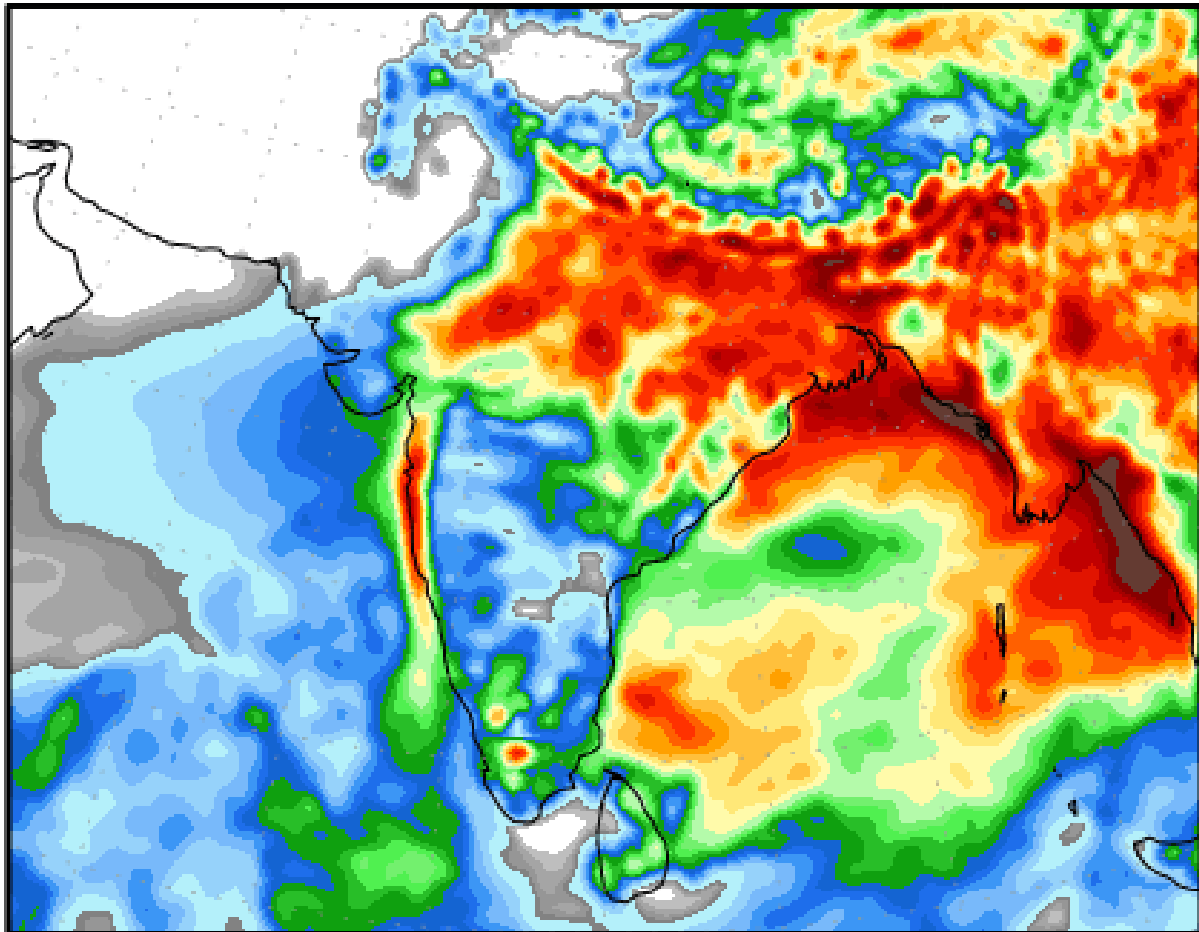
#### **Contingency measure:**

- Farmers are advised for application of 10-15% extra recommended dose of urea after transplanting. Farmers are advised to go for biasi operation in their fields if sufficient water is available. Farmers are also advised for chalai operation which should be done same day after biasi.
- At present rice crop is at tillering stage in most of the fields. Farmers are advised to go for first top dressing with urea (40 kg/ha.) fertilizer at tillering stage of rice for healthy tillers.
- Farmers are advised to do regular survey in rice field to monitor leaf folder attack. They can take control measures by spraying Chlorophriphos 1 lit/ha 500 lit. of water, if more than one leaf/plant damaged by leaf folder. Farmers are also advised to keep vigil on stem borer incidence. If their number more than one per sq meter area, farmers may go for application of Carbofuran 33kg/ha or Fartera @10 Kg/ha. Please note that after the treatment water in the field should not be drained out for at least 2-3 days.
- Upland rice should be kept weed free and nitrogenous fertilizer should be applied after rainfall. In transplanted rice to control narrow leaf weeds, apply Butachlor @ 1.5kg a.i per ha.+500 liters of water or Oxadygril @ 70 gram a.i. within 3 to 7 days of planting. In direct seeded/broadcast rice, Pyrazosulfuron (10% WP) @ 25 gram a.i. +500 liters of water can be used within 5-7 days for control. Rice crop which has reached 20-25 days of age apply Bispyribac 25 gram a.i/ha dissolved in 500 litre of water for control.
- In the rice crop, continuous monitoring of the economically harmful insects should be done. For this light trap should be used. Light trap should be placed at some distance from the crop and bulb should be lightened from evening 0630 PM to 1030 PM and collected insects should be destroyed in the morning hours.

- For control of rodents bunds should be kept clean, width of the bunds should be kept minimum 30 cms for better management. If the infestation is more, all the pits /holes should be closed. Next day in the open holes grains and mustard oil/should be mixed and dropped in the pits for continuous 5 days. From sixth day onwards 25 gram zinc phosphide @2.5% + 25gram of mustard oil should be mixed with 950 grams of grains. Small round pallets of this mixture should be prepared and dropped in these pits.
- In the places where water is lying stagnant in pigeon pea and other pulses crops, proper drainage measurement should be made. Fruits & Vegetables. The farmers who have not completed papaya transplanting till date should go for completing this operation now.
- Onion kharif should be planted in the main fields. Nursery preparation of cauliflower and cabbage type vegetables should be prepared. Nursery should be prepared for Capsicum annum. Systemic insecticides should be used in okra against fruit and shoot borer.
- Animal husbandry: Hygiene should be maintained around cattle shed. Bushes, Parthenium weeds should be uprooted and pits etc. should be filled so that mosquitoes control is there. Storage of cattle feed and concentrate should be in the dry place. On animal's bodies, external parasites should be taken out. Affected parts should be sprayed with Ivermectin medicine. To maintain milk production and prevention from disease cattle sheds should be well protected from flies and mosquitoes.



**Figure: 1. Latest available satellite picture as on 30 August 2018 at 0230 Hrs (IST).  
(Source: IMD).**



**Figure: 2. Precipitation forecast for 30 August to 05 September 2018 (Source: NOAA NCEP).**