

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

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

### **Daily Crop Weather Information as on 04 October 2018**

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

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

- Under the influence of a cyclonic circulation over Southeast Arabian Sea and adjoining Lakshadweep Maldives area a low pressure area is very likely to form over southeast Arabian Sea by tomorrow. It is very likely to concentrate into a Depression and move northwestwards during subsequent 36 hours. It is very likely to intensify in to a Cyclonic Storm thereafter and move towards Oman Coast. Rough to very rough Sea Conditions are very likely to prevail over South & central Arabian Sea. Fishermen are advised not to venture into these areas from 6th October.
- Another low pressure area is likely to form over southwest Bay of Bengal and neighborhood around 8th October.
- Tamilnadu, Kerala and Lakshadweep are likely to witness widespread rain / thundershowers with heavy / very heavy rains at isolated places during next 4-5 days. Ghat areas of Tamilnadu and adjoining parts of Kerala are also likely to experience isolated extremely heavy falls around 7th October.
- The withdrawal line of southwest monsoon continues to pass through Lat. 26.5°N/long. 87.0°E and Supaul, Hazaribag, Champa, Gondia, Jalgaon, Surat, Veraval and Lat. 21°N/ Long. 60°E. Conditions are becoming favourable for further withdrawal of southwest monsoon from some more parts of Bihar, Jharkhand, Chhattisgarh, Maharashtra, remaining parts of Gujarat and north Arabian Sea and some parts of Odisha and Gangetic West Bengal during next 48 hours.
- 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 Kerala and Tamilnadu & Puducherry; at many places over Lakshadweep & Coastal Karnataka; at a few places over Jammu & Kashmir, Madhya Maharashtra, South Interior Karnataka & Andaman & Nicobar Islands and at isolated places over Punjab, Haryana, West Uttar Pradesh, Himachal Pradesh, Uttarakhand, Gujarat, Chhattisgarh, Rajasthan,

Sub Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa and Coastal Andhra Pradesh.

- Thunderstorm observed at isolated places over Jammu & Kashmir, Punjab, West Uttar Pradesh, Gujarat Region, West Rajasthan, Madhya Maharashtra, Karnataka, Coastal Andhra Pradesh, Rayalaseema, Konkan & Goa, Kerala and Tamilnadu & Puducherry from 0830 hours IST of yesterday to 0830 hours IST of today. Heavy to very heavy rainfall observed at isolated places over Kerala & Tamilnadu & Puducherry.
- Maximum temperature departures as on 03.10.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over East Uttar Pradesh & Interior Karnataka; at a few places over Madhya Pradesh, Saurashtra & Kutch, Gangetic West Bengal, Odisha, Konkan & Goa, Marathwada, South Interior Karnataka, Rayalaseema & Jharkhand and at isolated places over Coastal Andhra Pradesh; above normal (1.6°C to 3.0°C) at most places over Madhya Maharashtra, Bihar, Vidarbha & Chhattisgarh; at many places over Uttarakhand, Rajasthan & Coastal Karnataka; at a few places over West Uttar Pradesh, Telangana, Kerala and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh. They were below normal (1.6°C to 3.0°C) at isolated places over Tamilnadu & Puducherry.
- The highest maximum temperature of 41.0° C was recorded at Bhuj (Gujarat) over the country.
- Minimum temperature departures as on 04.10.2018: Minimum temperature are above normal (1.6°C to 3.0°C) at many places over West Madhya Pradesh; at a few places over Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Gujarat Region, South Interior Karnataka, Telangana, Coastal Andhra Pradesh, Odisha and at isolated places over Saurashtra & Kutch, West Bengal & Sikkim and Odisha. They are below normal (1.6°C to 3.0°C) at a few places over Himachal Pradesh & Assam & Meghalaya and at isolated places over Jammu & Kashmir & East Madhya Pradesh and near normal over rest of the country.
- The lowest minimum temperature of 17.0°C are recorded at Jeur (Madhya Maharashtra) & Adilabad (Telangana) over the plains of the country.

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

- 04 October (Day 1): Heavy to very heavy rain very likely at isolated places over Tamilnadu & Puducherry and Kerala and heavy rain at isolated places over South Interior Karnataka and south Coastal Andhra Pradesh. Thunderstorm accompanied with lightning and gusty winds very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Tamilnadu, Kerala, Coastal Andhra Pradesh, interior Karnataka and Telangana.

- 05 October (Day 2): Heavy to very heavy rain very likely at isolated places over Tamilnadu & Puducherry ,Kerala and Lakshadweep & heavy rain at isolated places over South Interior Karnataka. Thunderstorm accompanied with lightning and gusty winds very likely at isolated places over Tamilnadu, Kerala, Coastal Andhra Pradesh, Telangana and interior Karnataka.
- 06 October (Day 3): Heavy to very heavy rain likely at isolated places over Tamilnadu & Puducherry, Lakshadweep and Kerala and heavy rain at isolated places over South Interior Karnataka. Thunderstorm accompanied with lightning and gusty winds very likely at isolated places over Tamilnadu, Kerala, Coastal Andhra Pradesh, Telangana and interior Karnataka. Rough to very rough Sea Conditions are likely to prevail over South & central Arabian Sea. Fishermen are advised not to venture into these areas.
- 07 October (Day 4): Heavy to very heavy rain with extremely heavy falls likely at isolated places over Tamilnadu and Kerala and heavy rain at isolated places over Coastal & South Interior Karnataka and Andaman & Nicobar Islands. Rough to very rough Sea Conditions are likely to prevail over South & central Arabian Sea. Fishermen are advised not to venture into these areas.
- 08 October (Day 5): Heavy to very heavy rain likely at isolated places over Tamilnadu & Puducherry and Kerala and heavy rain at isolated places over Coastal Karnataka. Rough to very rough Sea Conditions are likely to prevail over South & central Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e* 04 to 10 October 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, Rajasthan, West Uttar Pradesh, Sub Himalayan West Bengal & Sikkim, Gujarat, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, South Interior Karnataka, Coastal Andhra Pradesh, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

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

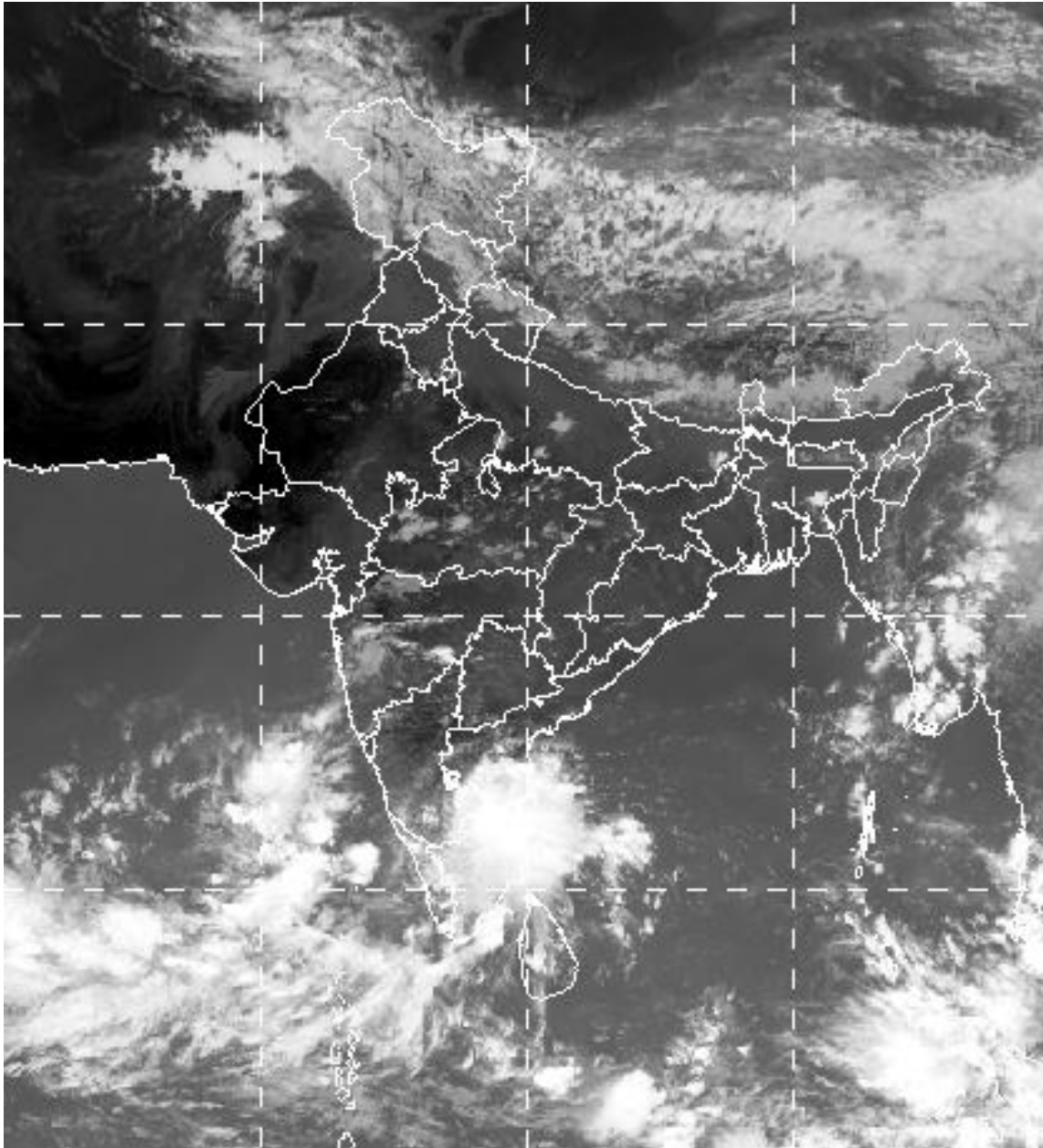
### **Jharkhand**

#### **Weather condition**

Dry weather prevailed in Jharkhand state during past few days. Maximum and minimum temperatures ranged from 27.4 to 31.2°C and 17.6 to 20.1 °C, respectively. Weekly maximum and minimum temperature were 29.6 and 19.1 °C against its normal value of 28.8 and 21.3 °C, respectively.

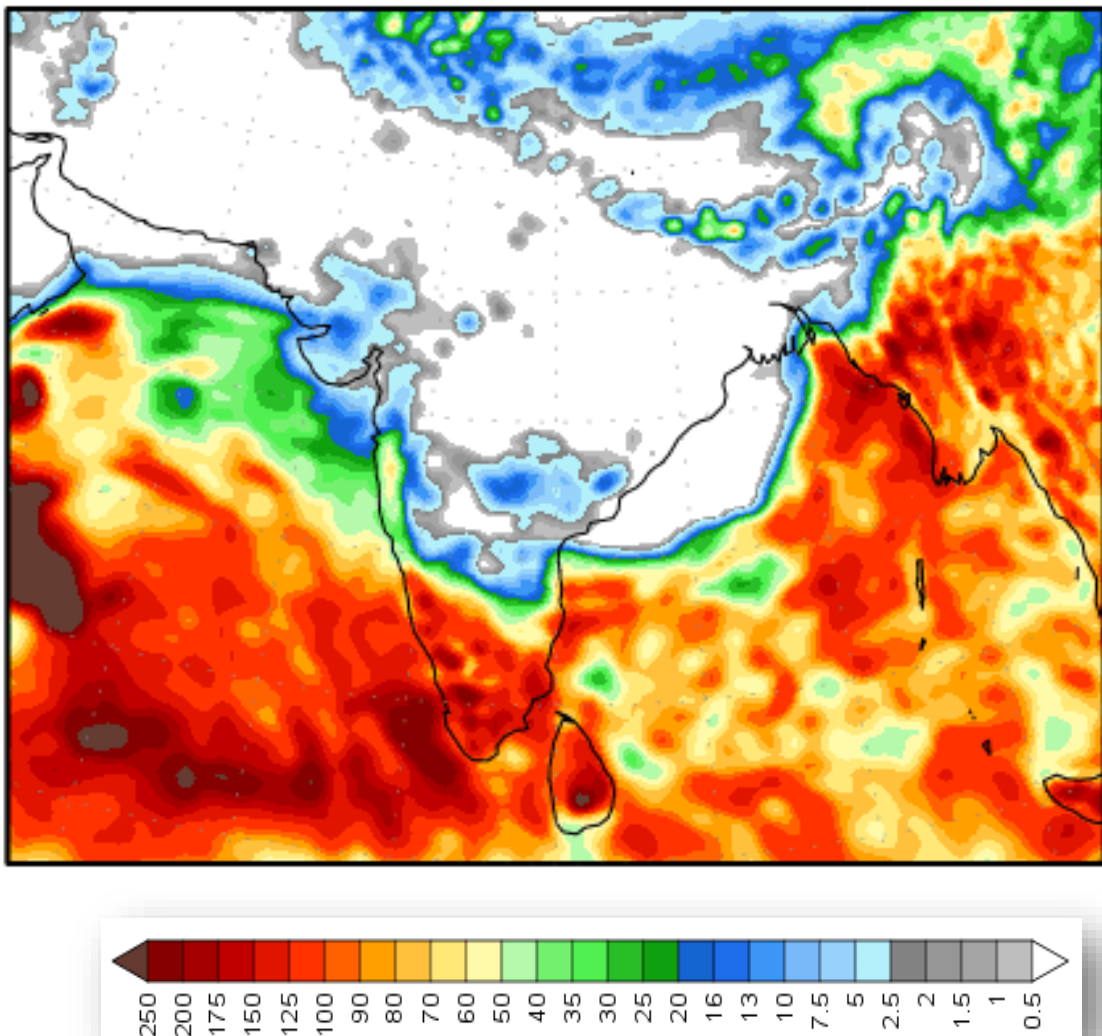
### Contingency measure:

- Toria (Rapeseed)- Recommended varieties of toria are T.-9, B.R.-23 and P.T.-303. 2 to 2.5 kg seeds and 44 kg Urea, 66kg S.S.P. & 16 kg Muriate of Potash are required for cultivation in one acre. Sow the seed in line at a distance of 30 cm (Row to row) and 10 cm. (Plant to plant).
- Moong & Urd: Crops sown during first week of July, are at approaching the maturity stage. Harvest the crops when the siliqua turns into golden colour.
- Rice (Transplanted): In some pockets, crops are attacked either by stem borer or leaf eating insects. Broadcast granular insecticides Kataf Hydrochloride (Kaldan or Golden) at the rate of 10 kg per acre to control them. However, stagnate water is essential during broadcasting of these insecticides.
- Maize: In some areas, crops are affected by the insect, Fruit borer. Spray neem based insecticide @ 2-3 ml. per liter of water on upper part of the plant to control these insects.
- Pigeon pea (Arhar) - In some patches, crops are attacked by leaf roller insect. If the insect population is very low, then infected leaves may be destroyed either by burning or burying in the soil. If the insect population is high, then spray insecticide Quinalphos @ 1 ml per liter of water.
- Potato and Table Pea: Farmers, having assured irrigation facility and wish to cultivate early potato and green peas are suggested to go for seeding. Recommended variety of potato for this region is Kufri Ashoka, Kufri Pukhraj, Kufri Lalima, Kufri Pushkar and Kufri Kanchan. 12 quintal seeds, 100 kg urea, 70 kg D.A.P., 80 kg Muriate of Potash and 10 kg Lindale dust is required for cultivation in one acre. Start the sowing of pea with recommended variety Arkel, Kashi Nandini, P.E.-6, Birsa Matar. The seed rate is 30-35 kg per acre. Sow the seed at the distance of 30 cm (between row) and 15 cm (between plant). Before seeding the seeds must be treated with Rhizobium culture.
- Vegetables: Spray Bioinsecticide Delphin @ 2 gm per liter of water to control white fly in cauliflower and cabbage and stem & fruit borer in brinjal. At present, farmers may raise the seedlings of winter vegetables like cauliflower, cabbage, chilli tomato, brinjal etc. Seed should be treated with fungicide Bavistin before sowing. If the seedlings of these vegetables are ready, start transplantation at recommended spacing.



**Figure: 1. Latest available satellite picture as on 04 October 2018 at 0230 Hrs (IST).  
(Source: IMD).**





**Figure: 2. Precipitation forecast for 04 to 10 October 2018 (Source: NOAA NCEP).**