

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

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

### **Daily Crop Weather Information as on 16 July 2018**

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

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

- A well marked low pressure area lies over north Coastal Odisha and neighbourhood. The system is very likely to move west northwestwards across Central India, thereby enhancing the rainfall over Central India during next 48 hours.
- Another low pressure area is likely to form over north Bay of Bengal & neighbourhood around 19th July.
- The monsoon trough continues to run south of its normal position and extends upto 2.1 Km above mean sea level, tilting southwards with height.
- Sea conditions are very likely to remain very rough over major parts of the Arabian Sea, north Bay of Bengal and Andaman Sea during next 2 days.
- Extremely Heavy rain occurred at isolated places over Odisha, Kerala, Madhya Maharashtra and Konkan & Goa; Very heavy rain occurred at isolated places over Kerala, Tamilnadu & Puducherry, Odisha and Gujarat Region and Heavy rain occurred at isolated places over Gujarat Region, Konkan & Goa, Himachal Pradesh, Vidarbha, East Madhya Pradesh, Chhattisgarh, Odisha and Saurashtra & Kutch from 0830 hours IST of yesterday to 0830 hours 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 at most places over Himachal Pradesh, Gujarat, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Odisha, Gangetic West Bengal, Coastal Karnataka, North Interior Karnataka and Kerala; at many places over East Rajasthan, West Madhya Pradesh, Lakshadweep, Coastal Andhra Pradesh, Telangana, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; at a few places over Uttarakhand, South Interior Karnataka and Tamilnadu & Puducherry and at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Uttar Pradesh, Rayalaseema and Sub Himalayan West Bengal & Sikkim.

- Maximum temperature departures as on 15.07.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over East Uttar Pradesh, East Madhya Pradesh and Sub Himalayan West Bengal & Sikkim; at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over Himachal Pradesh and Punjab; at a few places over Jammu & Kashmir, West Rajasthan and West Madhya Pradesh. They were appreciably below normal (3.1°C to 5.0°C) at most places over Coastal Andhra Pradesh; at many places over Telangana & Kerala and below normal (1.6°C to 3.0°C) at most places over Gujarat Region; at many places over Chhattisgarh and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 41.1°C was recorded at Jaisalmer (West Rajasthan) over plains of the country.
- Minimum temperature departures as on 15.07.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir and Bihar; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi, Sub Himalayan West Bengal & Sikkim; at many places over Punjab, Uttar Pradesh, Andaman & Nicobar Islands and at a few places over Jharkhand, Madhya Pradesh, Uttarakhand and Konkan & Goa and near normal over rest of the country.

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

- 16 July (Day 1): Heavy to very heavy rain at a few places with extremely heavy falls very likely at isolated places over Vidarbha and Konkan & Goa; heavy to very heavy rain with extremely heavy falls very likely at isolated places over Gujarat Region, Chhattisgarh, Odisha, Saurashtra, Madhya Maharashtra, Coastal Karnataka and Kerala; heavy to very heavy rain at isolated places over Himachal Pradesh, Uttarakhand and Ghats region of Tamilnadu, heavy rain at isolated places over Jammu Division of Jammu & Kashmir, Punjab, Rajasthan, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Marathwada, Coastal Andhra Pradesh, Telangana and Interior Karnataka.
- 17 July (Day 2): Heavy to very heavy rain at a few places with extremely heavy falls very likely at isolated places over Konkan & Goa; heavy to very heavy rain with extremely heavy falls very likely at isolated places over Gujarat Region and Saurashtra; heavy to very heavy rain at a few places over East Rajasthan, West Madhya Pradesh and Vidarbha; heavy to very heavy rain at isolated places over East Madhya Pradesh, Madhya Maharashtra, Coastal Karnataka, Tamilnadu and Kerala and heavy rain at isolated places over Himachal Pradesh, Uttarakhand, West Rajasthan, Chhattisgarh, Odisha, Marathwada, Coastal Andhra Pradesh, Telangana and Interior Karnataka.
- 18 July (Day 3): Heavy to very heavy rain at a few places over East Rajasthan and Konkan & Goa; heavy to very heavy rain at isolated places over Gujarat region and Coastal Karnataka & East Madhya Pradesh and heavy rain at isolated places over Uttarakhand, West Rajasthan, West Madhya Pradesh, Vidarbha, Saurashtra, Madhya Maharashtra, Marathwada, South Interior Karnataka, Tamilnadu and Kerala.

- 19 July (Day 4): Heavy to very heavy rain at isolated places over Uttarakhand, Gujarat region, Konkan & Goa and Coastal Karnataka and heavy rain at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, South Interior Karnataka and Kerala.
- 20 July (Day 5): Heavy to very heavy rain at isolated places over Konkan & Goa, Coastal Karnataka and Kerala and heavy rain at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan, Odisha, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra and South Interior Karnataka.
- The weather outlook for the period of seven days *i.e* 16 to 23 July 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Gangetic West Bengal, Jharkhand, Chhattisgarh, Odisha, Gujarat, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Kerala, Rayalaseema Coastal Andhra Pradesh, Telangana, Karnataka, Tamilnadu & Puducherry, Lakshadweep and North eastern States. (Fig. 2).

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

### **Chhattisgarh**

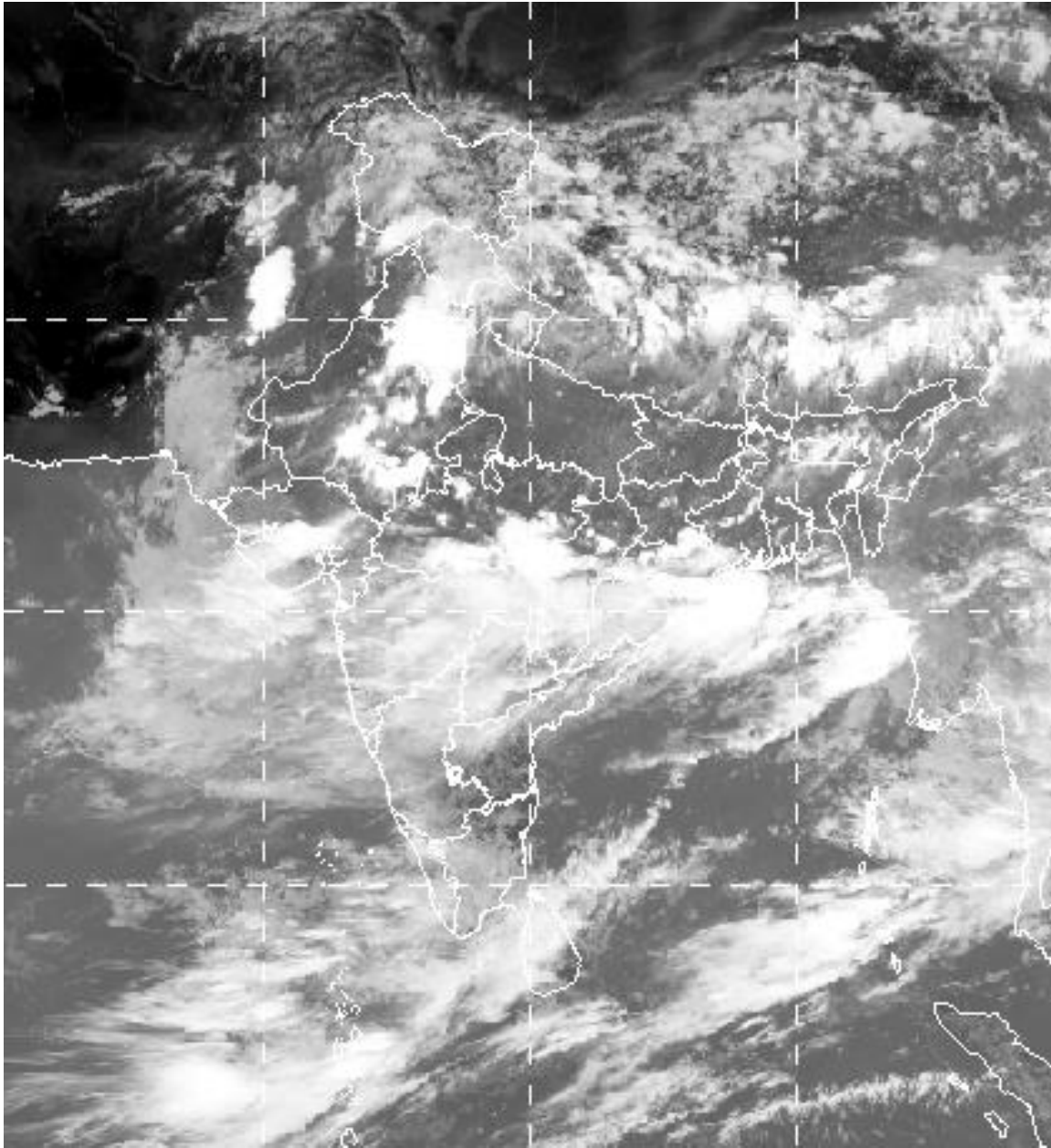
#### **Weather condition**

Light rainfall received in Chhattisgarh state during this past few days.

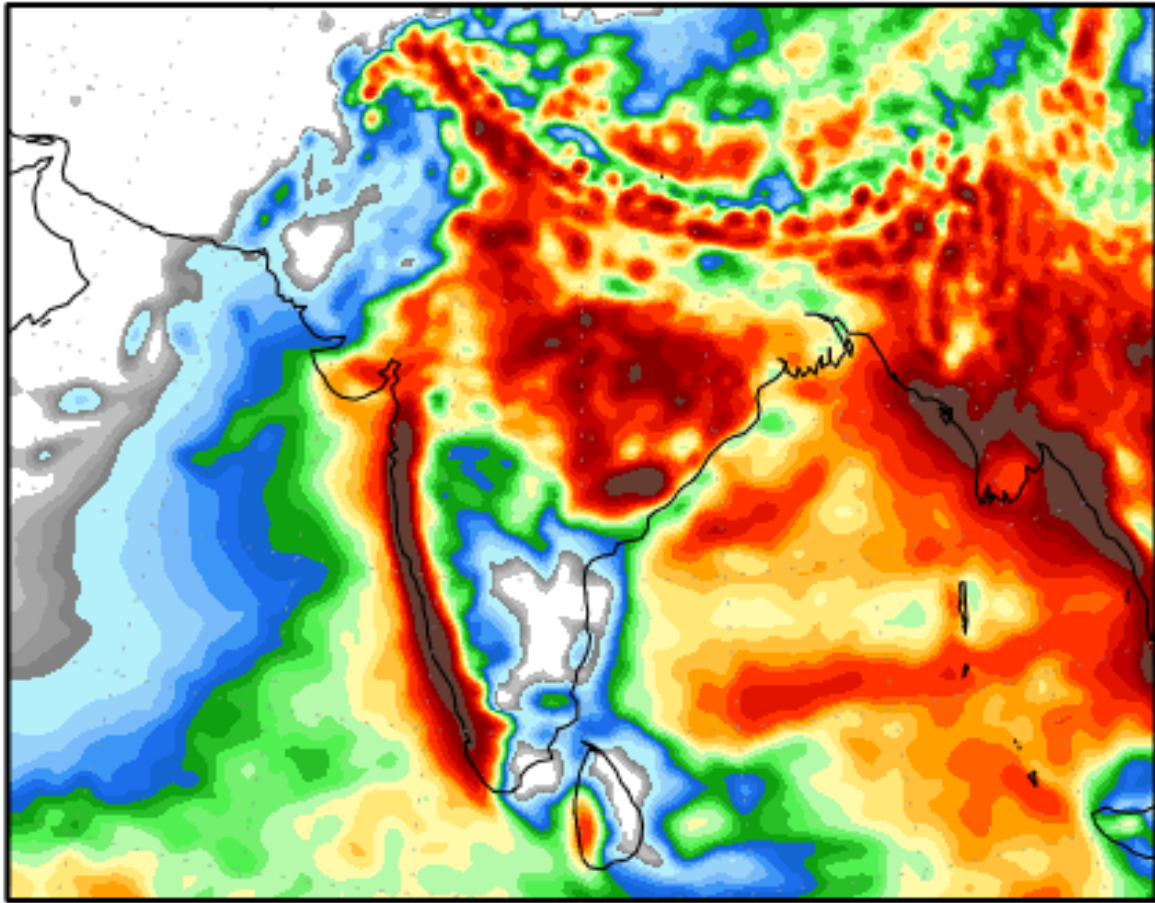
#### **Contingency measure:**

- Rice crop, use Azotobacter @ 5 gram + PSB @ 10 gram / Kg. seed for treatment followed by Carbendazim (Bavistin) @ 1.5 gram per Kg. of seed. In 3-4 weeks old nursery apply Carbofuran @ 20 kg per acre four days before transplanting. In transplanted rice to control narrow leaf grass and broad weeds, apply Butachlor @ 3.0 litres. per ha. +500 litres of water within 3 to 7 days of planting. To control weeds in line sown rice crop, apply pre-emergence herbicides like Pendimethalin @ 3.0 liter per ha. dissolved in 500 liters of water within 3 days after sowing.
- Monsoon rainfall has started in maximum regions of Chhattisgarh state. Therefore farmers should take up sowing of kharif crops like paddy, arhar, sesamum, maize and millets (kodo, kutki and finger millets) etc. Sowing should be done in lines. Seed treatment should be done before sowing. Granular fertilizers should be applied through seed drill. In the light soils, the early duration varieties like Danteshwari, Poornima, Indira Barani Dhan-1, Annada, Samleshwari, MTU-1010, IR-36 should be grown.
- Soybean and other pulses crops like arhar should be sown with proper drainage. Soybean seeds must be treated with Rhizobium culture @ 5 gram + PSB @ 10 g/ Kg. before sowing. In the new crop of sugarcane need based intercultural operations and earthing should be done.

- Fruits & Vegetables: Prepare seedlings for kharif vegetables. Seeds of pumpkin, bitter gourd and bottle guard should be sown by vegetable growers in the badis. Need based irrigation and intercultural operations should be done in tomato, brinjal, chilli, okra and other vegetable crops. Planting of new fruit plants should be started.
- Animal husbandry: During monsoon season normally low light duration is there due to cloudy weather condition. Therefore, farmers are advised to increase light duration in poultry farms. If cattle are not fed with wormicide medicine then cattle should be given (Panacur /albomore Nilzan/zenil @ 3 grams .bolls and small cattle either should be fed 1.5 gram on empty stomach . New born calves should be given Piprazine salt/Helmacide medicine @ 30ml/ months up to 3 months. In case of gestric problem, cattle and buffaloes should be given Blotocil/ Blotinofen @100 ml. For control of flies, cattle sheds flours should be cleared with phenyl water..



**Figure: 1. Latest available satellite picture as on 16 July 2018 at 0230 Hrs (IST).  
(Source: IMD).**



**Figure: 2. Precipitation forecast for 16 to 23 July 2018 (Source: NOAA NCEP).**