

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

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

### **Daily Crop Weather Information as on 17 July 2018**

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

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

- The well marked low pressure area now lies over north Chhattisgarh & neighbourhood with associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height. The system is very likely to move west northwestwards.
- The monsoon trough continues to run to the south of its normal position and extends upto 2.1 Km above mean sea level, tilting southwards with height.
- Under the influence of the above systems, the enhanced rainfall activity over the parts of central India likely to continue for another 48 hours.
- A low pressure area is likely to form over north Bay of Bengal & neighbourhood around 21st July.
- 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. Fishermen advised not to venture into these sea areas.
- Heavy to very heavy rain with extremely heavy falls occurred at isolated places over Gujarat and Madhya Maharashtra; heavy to very heavy rain at isolated places over Punjab, West Madhya Pradesh and Assam & Meghalaya and Heavy rain occurred at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Konkan & Goa, Vidarbha, Odisha, Sub Himalayan West Bengal & Sikkim, Kerala and interior Tamilnadu 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, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Gujarat, Konkan & Goa, Karnataka, Kerala, Lakshadweep, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, Chhattisgarh, Odisha and Andaman & Nicobar islands; at many places over Jammu & Kashmir, Uttarakhand, Madhya Pradesh, Coastal Andhra Pradesh, Sub Himalayan West Bengal & Sikkim and Assam & Meghalaya and ; at a few

places over West Rajasthan, Bihar and Arunachal Pradesh; at isolated places over West Uttar Pradesh and Tamilnadu & Puducherry.

- Maximum temperature departures as on 16.07.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over East Madhya Pradesh; at a few places over West Madhya Pradesh, East Uttar Pradesh and Bihar; above normal (1.6°C to 3.0°C) at most places over West Uttar Pradesh; at many places over Sub Himalayan West Bengal & Sikkim and Assam & Meghalaya; at isolated places over Jammu & Kashmir, Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu & Puducherry. They were markedly below normal (5.1°C or less) at a few places over Telangana; at isolated places over Himachal Pradesh; appreciably below normal (3.1°C to 5.0°C) at most places over Marathwada; at many places over Vidarbha; at a few places over Punjab, Haryana, Chandigarh & Delhi and Madhya Maharashtra; at isolated places over Gujarat and below normal (1.6°C to 3.0°C) at most places over Odisha and North Interior Karnataka; at a few places over Chhattisgarh; at isolated places over South Interior Karnataka and Kerala and near normal over rest of the country.
- The highest maximum temperature of 41.6°C recorded at Ganganagar (West Rajasthan) over plains of the country.
- Minimum temperature departures as on 17.07.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Madhya Pradesh, Assam & Meghalaya and Andaman & Nicobar islands; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Uttar Pradesh and Sub Himalayan West Bengal & Sikkim; at many places over Bihar; at a few places over Jammu & Kashmir, Himachal Pradesh and Madhya Pradesh; at isolated places over Rajasthan and Coastal Andhra Pradesh. They are below normal (1.6°C to 3.0°C) at a few places over interior Tamilnadu; at isolated places over West Madhya Pradesh, south Gujarat, Madhya Maharashtra & Odisha and near normal over rest of the country.

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

- 17 July (Day 1): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rain with extremely heavy falls at isolated places very likely over Gujarat Region, Saurashtra and Madhya Maharashtra; heavy to very heavy rain at isolated places very likely over Madhya Pradesh, Vidarbha, Coastal Karnataka and Kerala and heavy rain at isolated places very likely over Himachal Pradesh, Uttarakhand, East Rajasthan, Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Telangana, interior Karnataka and Ghat of Tamilnadu.
- 18 July (Day 2): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places very likely over West Madhya Pradesh; heavy to very heavy rain with extremely heavy falls at isolated places very likely over Gujarat Region, Saurashtra and Konkan & Goa; heavy to very heavy rain at isolated places very likely over East Rajasthan, Madhya Maharashtra, Coastal Karnataka and Kerala and heavy rain at isolated places very

likely over East Madhya Pradesh, Vidarbha, Assam & Meghalaya, interior Karnataka and Ghat of Tamilnadu.

- 19 July (Day 3): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places very likely over West Madhya Pradesh; heavy to very heavy with extremely heavy falls at isolated places very likely over East Rajasthan; heavy to very heavy rain at isolated places very likely over Gujarat and heavy rain at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka and Kerala.
- 20 July (Day 4): Heavy rain likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Gujarat, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka and Kerala.
- 21 July (Day 5): Heavy rain likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Konkan & Goa, Coastal Karnataka and Kerala..
- The weather outlook for the period of seven days *i.e* 17 to 24 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, Jharkhand, Gangetic West Bengal, Sub Himalayan West Bengal & Sikkim, Bihar, West Uttar Pradesh, Madhya Pradesh, Gujarat, Odisha, Konkan & Goa, Karnataka, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, Chhattisgarh, Coastal Andhra Pradesh, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North eastern States. (Fig. 2).

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

### **Bihar**

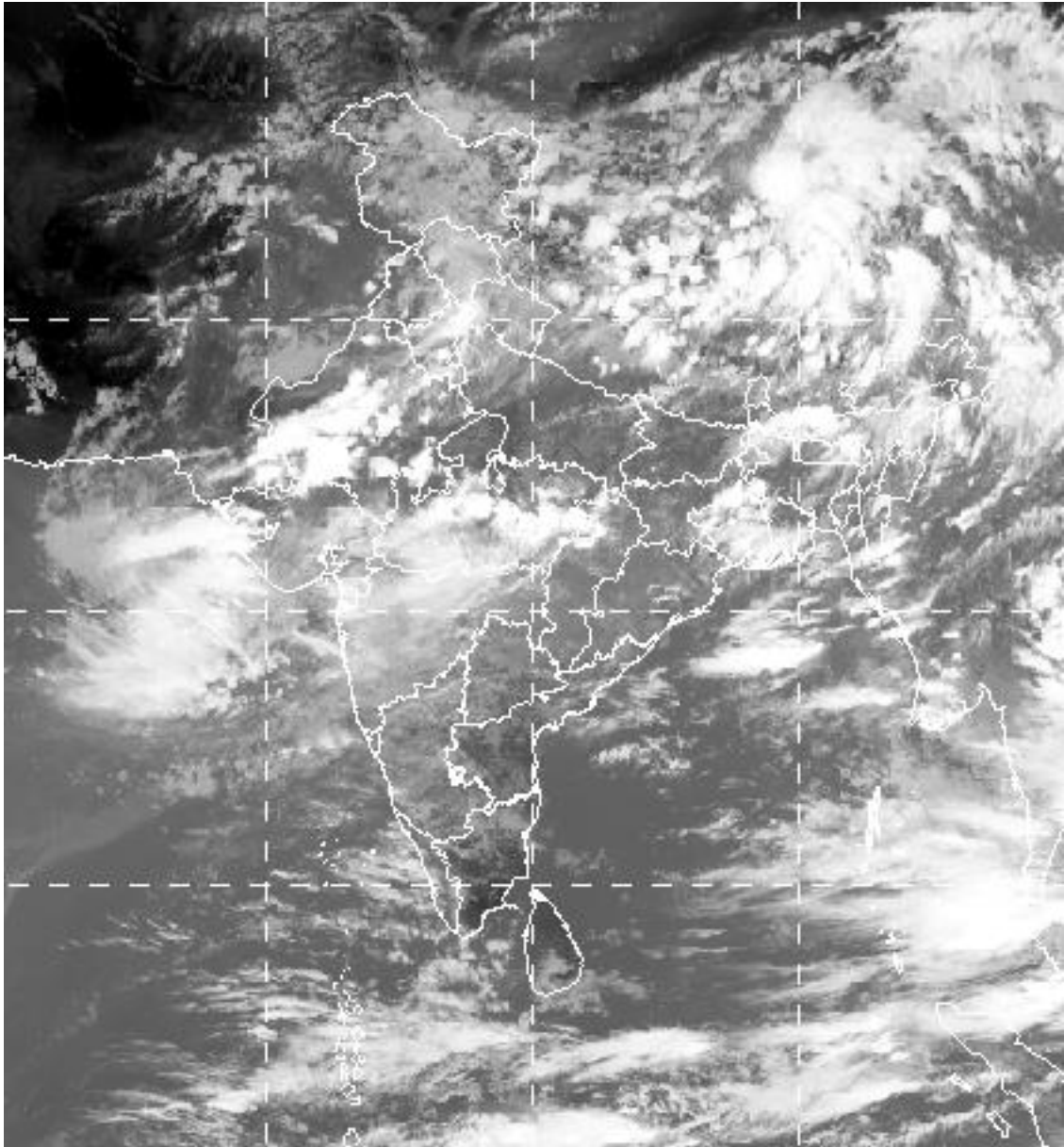
#### **Weather condition**

Light rainfall received in Bihar state during this past few days. Maximum temperature ranged from 35.2 to 35.5 °C and minimum temperature ranged from 24.5 to 27.5 °C.

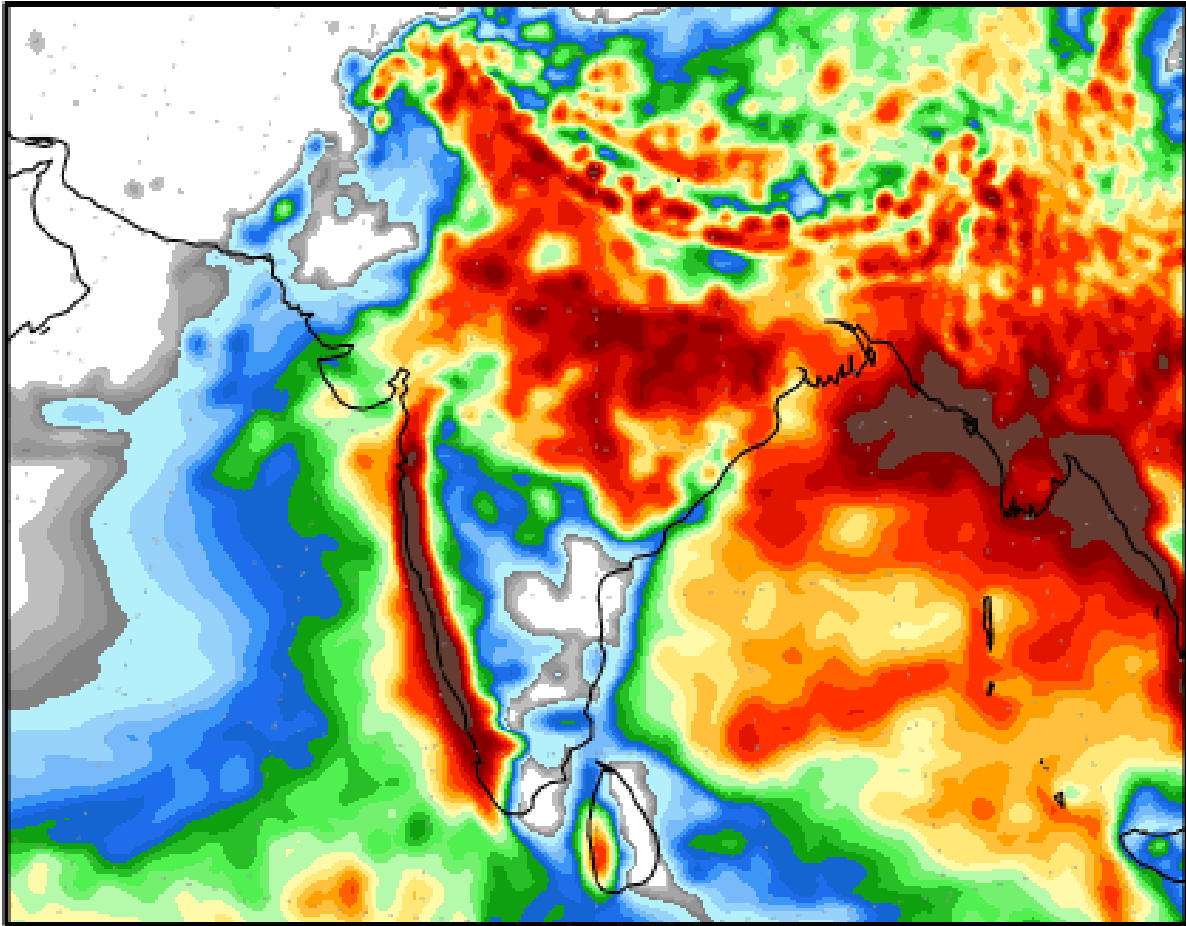
#### **Contingency measure:**

- Kharif paddy: Transplanting. In the areas, where good rainfall has been recorded, farmers are advised to start transplanting work of rice in low land areas. If seedlings are not ready in these areas, they may go for wet DSR method for sowing of rice. If rainfall has been poor, farmers in that region are advised to sow the rice of short and medium duration varieties by direct seeding method. Where seedlings are ready and irrigation facilities are available, farmers can start rice transplanting particularly in the medium and low land areas.

- Farmers who have not sown their paddy seeds in the nursery are advised to complete the nursery seeding at the earliest. Before sowing, seeds should be treated with Carbendazim@1.5 gram/kg of seed. Weeding is advised in 10-12 days old paddy nursery.
- Sugarcane:- Tillering to grand growth stage In view of almost dry condition and poor rainfall, farmers are advised to irrigate their sprig planted sugarcane crop in the areas where rainfall so far has been very poor and highly deficient.
- Sunflower:- Sowing Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.
- Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed.Sesamum (Til) Sowing Taking advantage of rainfall in the forecasted period, sowing of sesamum is advised in the upland areas. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing in North Bihar.
- Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. Agro-forestry plantation Sapling plantation Prevailing weather is favorable for planting of new orchards. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation.



**Figure: 1. Latest available satellite picture as on 17 July 2018 at 0230 Hrs (IST).  
(Source: IMD).**



**Figure: 2. Precipitation forecast for 17 to 24 July 2018 (Source: NOAA NCEP).**