

# All India Coordinated Research Project on Agrometeorology CRIDA, Santoshnagar, Hyderabad – 500 059

## Daily Crop Weather Information as on 23 October 2020

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

### Significant Weather Features (IMD)

- The withdrawal line of the Southwest Monsoon continues to pass through Lat. 27°N/Long.90°E, Cooch Behar, Sriniketan, Ranchi, Pendra Road, Mandla, Narsinghpur, Indore, Vallabh Vidyanagar, Porbandar, Lat.21°N/Long.65°E and Lat.21°N/Long.60°E.
- Conditions continue to be favourable for further withdrawal of Southwest Monsoon from remaining parts of Jharkhand, Chhattisgarh, Madhya Pradesh, Gujarat and North & Central Arabian Sea; some parts of Odisha and north Maharashtra during next 2-days and from remaining parts of West Bengal, Sikkim, Odisha, Telengana, parts of north-eastern states, Andhra Pradesh and most parts of Maharashtra during subsequent 2 days.
- With likely setting in of northeasterly winds in the lower tropospheric levels over Bay of Bengal and extreme south peninsular India, the southwest monsoon is likely to withdraw from entire country around 28 October, 2020. Simultaneously, the Northeast Monsoon rains are also likely to commence over Tamil Nadu and Puducherry, Coastal Andhra Pradesh and adjoining areas of Karnataka and Kerala around 28 Oct, 2020.
- The Depression over Northwest Bay of Bengal off Odisha coast moved north-northeastwards with a speed of 24 kmph during past 06 hours and lay centred at 0830 hrs IST of today, the 23rd October, 2020 near Latitude 21.3°N & Longitude 88.4°E over Northwest Bay of Bengal off West Bengal-Bangladesh coasts, about 50 km southeast of Sagar Islands (West Bengal) and 200 km west-southwest of Khepupara (Bangladesh). It is very likely to move north-northeastwards and cross West Bengal & adjoining Bangladesh coasts between Sagar Islands (West Bengal) and Khepupara (Bangladesh) over Sundarbans around noon of today, the 23rd October, 2020. Under the influence of above system:
- Light to moderate rainfall at most places with heavy to very heavy falls at a few places and extremely heavy falls at isolated places very likely over Tripura; heavy to very heavy falls at a few places over Nagaland, Manipur, Mizoram and south

Assam & Meghalaya. Light to moderate rainfall at many places with heavy falls at isolated places likely over remaining districts of Assam on 23rd October, 2020.

- Sea Condition will be rough to very rough over North Bay of Bengal and along & off north Odisha-West Bengal-Bangladesh coasts. Fishermen are advised not to venture into these areas during next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Coastal Karnataka, Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Kerala & Mahe and South Interior Karnataka; at a few places over Konkan & Goa, Madhya Maharashtra, Rayalaseema and Gangetic West Bengal and at isolated places over Uttarakhand, East Rajasthan, West Madhya Pradesh, Odisha Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Jharkhand and Sub-Himalaya West Bengal & Sikkim.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Maharashtra and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 22-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at a few places over West Uttar Pradesh, West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal and Sub-Himalayan West Bengal & Sikkim; at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Vidarbha, Telangana and Coastal Andhra Pradesh & Yanam. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Coastal Karnataka, Odisha and Gangetic West Bengal and below normal (-1.6°C to -3.0°C) at isolated places over Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.1°C was reported at Barmer (West Rajasthan).
- Minimum Temperature Departures as on 23-10-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Bihar and Jharkhand; at a few places over West Madhya Pradesh and East Uttar Pradesh and at isolated places over Rajasthan, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Odisha, Sub-Himalayan west Bengal & Sikkim, Assam &

Meghalaya and Andaman & Nicobar; above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh and Lakshadweep; at a few places over East Madhya Pradesh, Telangana, South Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam and Chhattisgarh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Gujarat Region, Konkan & Goa, Vidarbha and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 11.2°C reported at UNA (Himachal Pradesh) over the plains of the country.

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

- 23 October (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Tripura; Heavy to very heavy rainfall at a few places over south Assam & Meghalaya and Nagaland, Manipur, Mizoram and heavy rainfall at isolated places over East Arunachal Pradesh, remaining districts of Assam, south Konkan & Goa, Madhya Maharashtra, Rayalaseema, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Rayalaseema, Karnataka, and Tamil Nadu, Puducherry & Karaikal. Squally Wind (speed reaching 45-55 kmph gusting 65 kmph) likely over North Bay of Bengal and speed reaching 40-50 kmph gusting to 60 kmph very likely along & off north Odisha-West Bengal-Bangladesh coasts. Sea Condition will be rough to very rough over North Bay of Bengal and along & off north Odisha-West Bengal-Bangladesh coasts. Fishermen are advised not to venture into these areas.
- 24 October (Day 2): Heavy rainfall very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal & South Interior Karnataka. Thunderstorm with lightning very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- 25 October (Day 3): Heavy rainfall very likely at isolated places over Coastal Karnataka. Thunderstorm with lightning very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

- 26 October (Day 4): Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- 27 October (Day 5): Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 23 to 31 October 2020 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### Gujarat

#### Weather condition:

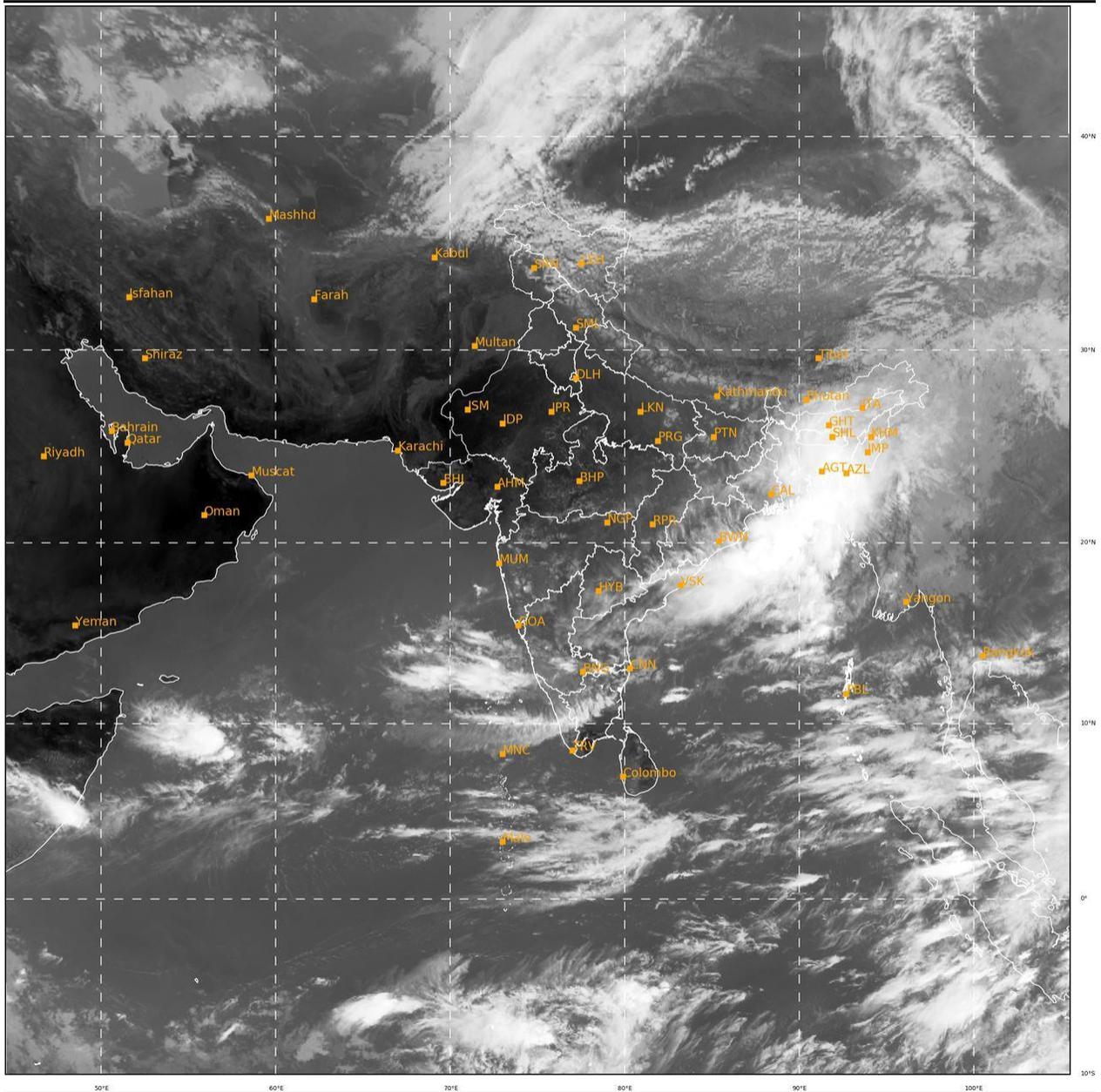
The actual maximum temperature was 0.6 °C lower and Actual minimum temperature was 6.5 °C higher as compared to its normals. Total BSS was 48.9 hrs. with an average of 7.0 hrs. The daily average evaporation and wind speed was 4.3 mm and 3.7 km/hr respectively. The daily average RH during morning and afternoon was 88.4 % and 56.6 % respectively.

#### Contingency measure:

- Mustard : Land preparation : Prepared the land for sowing by applying FYM. Procure certified seed @ 4 kg/ha of any recommended mustard cultivar viz.,Gujarat Mustard 1 or 2 or 3 or GDM 4 or 5 or Bio-902. Apply Basal dose of nitrogen @ 25 kg/ha, Phosphorus @50 kg/ha. at the time of sowing. Sowing distance should be kept 45 cm between the rows and seed rate should be 4 kg/ha.
- Pearl millet : Protect crop from birds. Harvest mature crop. After proper drying, threshing should be done.
- Paddy : For control of Brown Leaf hopper furrow application of Fipronil 0.3G 16 - 25 kg/ha OR broadcasting the same OR spray Fipronil 5 SC 20-30 ml in 10 lit. of water in the base of paddy hills.
- Tobacco : Gap filling, intercultureing and weeding is advised.
- Green gram : Peaking of matured green gram pod and ensure safe storage of pods.
- COTTON : Reproductive: For control of pink boll worm infestation install the pheromone trap @ 16 per hectare. Apply carbaryl 50% WTP 40 gm in 10 liters of water to avoid pink boll worm in cloudy condition.
- CASTOR : Vegetative Growth : Cercospora leaf spot disease is caused by cercospora fungus. For controlling of this disease Mencozeb 75% WP 25gm in 10 lit of water should be sprayed.
- Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- TOMATO: Vegetative Growth: there is possibility of incidence of spotted wilt virus, spray Carbendazim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.
- Cattle: Provide adequate fodder and keep the animals in clean shed. Give stored fodder balanced mineral mixture in diet. Protect shed from rain and wind. Care should be taken in rainy days for cattle and stored dry fodder.

SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

23-10-2020/(0830 to 0857) GMT  
23-10-2020/(1400 to 1427) IST

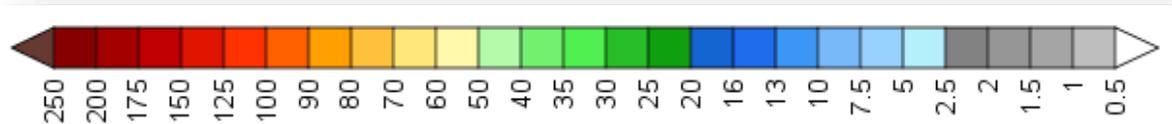
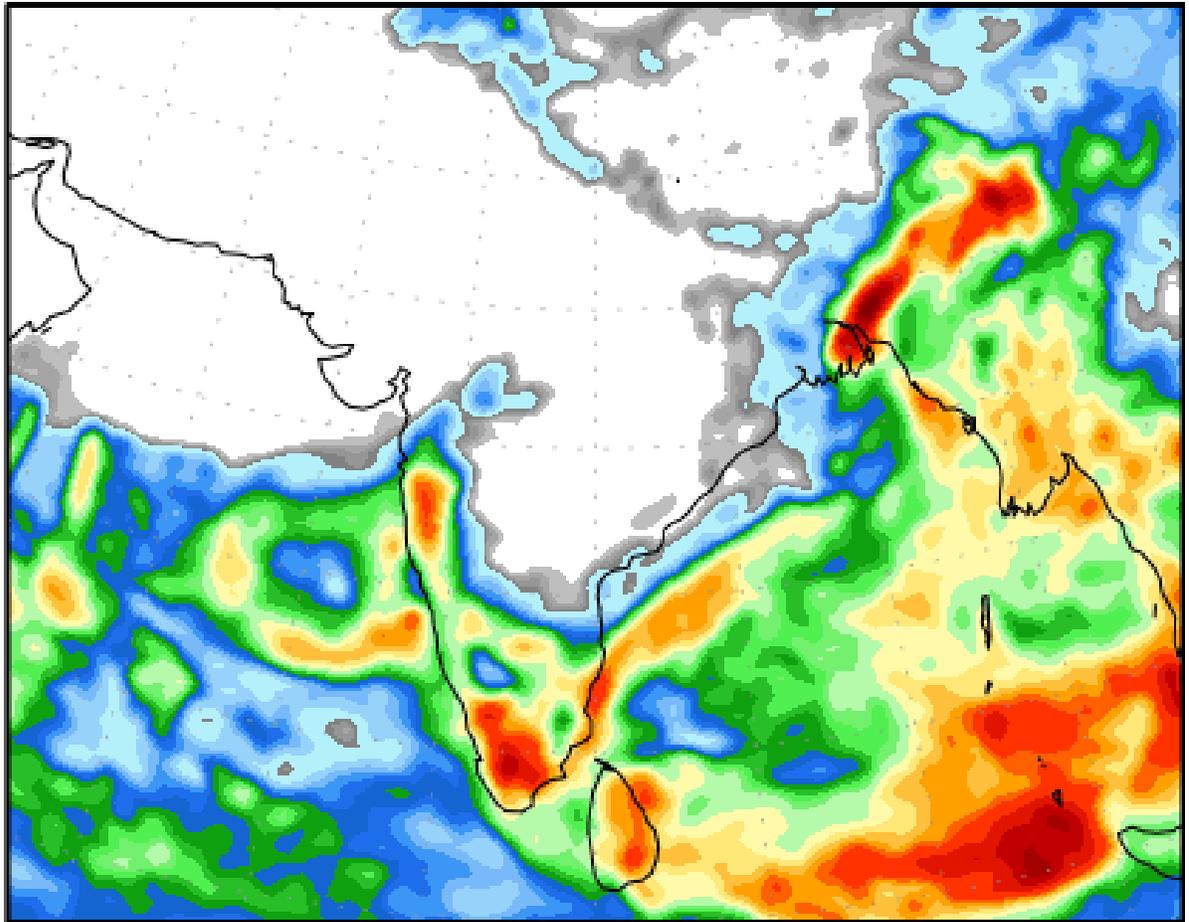


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**Figure: 1. Latest available satellite picture as on 23 October 2020 at 1427 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 23 to 31 October 2020 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*