

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

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

### **Daily Crop Weather Information as on 15 October 2020**

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

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

- The withdrawal line of the Southwest Monsoon continues to pass through Lat. 28°N/Long.83°E, Faizabad, Fatehpur, Nowgong, Rajgarh, Ratlam, Vallabh Vidyanagar, Porbandar, Lat. 21°N/ Long.65°E and Lat. 21°N/ Long.60°.
- The Well Marked Low Pressure Area over south Madhya Maharashtra & adjoining south Konkan with associated cyclonic circulation extending upto mid-tropospheric levels persists. It is very likely to move west-northwestwards and emerge into Eastcentral Arabian Sea off Maharashtra coast and concentrate into a Depression over Eastcentral & adjoining Northeast Arabian Sea off Maharashtra-south Gujarat coasts during next 48 hours. It is very likely to move gradually west-northwestwards and intensify further.
- Under the influence of the above system, the following adverse weather is likely:  
(i) Rainfall warning:
- 15th October 2020: Light to moderate rainfall at most places with heavy to very heavy falls at isolated places would occur over Konkan & Goa and adjoining Ghat areas of Maharashtra. Extremely heavy falls (>20cm per day) is also likely over south Konkan and adjoining Ghat areas of Maharashtra.
- 16th October 2020: Light to moderate rainfall at most places with heavy rainfall at isolated places over Konkan & Goa, south Gujarat region and Saurashtra & Kutch.  
(ii) Fishermen Warning: Fishermen are advised not to venture into the Sea along & off Mahara
- 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 Andaman & Nicobar Islands, Odisha, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Karnataka; at many places over Marathwada, Vidarbha, Telangana and Kerala & Mahe; at a few places over Chhattisgarh, Rayalaseema and Lakshadweep and at isolated places

over Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Gujarat region and Tamil Nadu, Puducherry & Karaikal.

- Thunderstorm observed (from 0830 hours of yesterday to 0830 hours IST of today): at isolated places over Odisha, Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 14-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand and Sub-Himalayan West Bengal & Sikkim; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Arunachal Pradesh; at a few places over Assam & Meghalaya, Bihar and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal; at a few places over Punjab, Uttar Pradesh, Jharkhand, Madhya Pradesh; at isolated places over Rayalaseema and Tamil Nadu, Puducherry & Karaikal. They were markedly below normal ( -5.1°C or less) at isolated places over Madhya Maharashtra; appreciably above normal (-3.1°C to -5.0°C) at most places over Marathwada, Coastal & North Interior Karnataka; at a few places over Telangana and Konkan & Goa; below normal (-1.6°C to -3.0°C) at a few places over Kerala; at isolated places over Vidarbha, East Madhya Pradesh, Odisha, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.2°C was reported at Rajkot (Saurashtra & Kutch).
- Minimum Temperature Departures as on 15-10-2020: Minimum temperatures are markedly above normal (5.1°C or more) at few places over east Rajasthan, Gujarat region and Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over East Uttar Pradesh, Bihar and Nagaland, Manipur, Mizoram & Tripura; at a few places over Uttarakhand, Chhattisgarh, Marathwada, Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, West Uttar Pradesh, Jharkhand, Vidarbha, Madhya Maharashtra and Coastal Karnataka; above normal (1.6°C to 3.0°C) at many places over Saurashtra & Kutch; at a few places over West Rajasthan, Andaman & Nicobar Islands and Lakshadweep and at isolated places over Konkan & Goa, Telangana and Tamil Nadu, Puducherry & Karaikal; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at isolated places over odisha near normal over rest parts

of the country. The lowest minimum temperature of 15.0°C reported at Amritsar (Punjab) over the plains of the country.

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

- 15 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over Konkan & Goa with isolated extremely heavy rainfall at isolated places over south Konkan & Goa and ghat areas of Maharashtra and heavy rainfall at isolated places over Odisha, Andaman & Nicobar Islands, northern parts of Coastal Karnataka and northwestern parts of North Interior Karnataka. Thunderstorm with lightning very likely at isolated places over at isolated places Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Konkan & Goa and Coastal Andhra Pradesh & Yanam. Strong Winds (speed reaching 50-60 kmph gusting to 70 kmph) very likely over Eastcentral and adjoining Northeast Arabian Sea along & off Maharashtra-south Gujarat coasts. Fishermen are advised not to venture into these areas.
- 16 October (Day 2): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, south Gujarat region, Saurashtra & Kutch and Konkan & Goa. Thunderstorm with lightning very likely at isolated places over at isolated places Vidarbha, Chhattisgarh, Odisha, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed reaching 50-60 kmph gusting to 70 kmph) very likely over Eastcentral and adjoining Northeast Arabian Sea along & off Maharashtra-south Gujarat coasts. Sea condition will be rough to very rough over these areas. Fishermen are advised not to venture into these areas.
- 17 October (Day 3): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over East Rajasthan, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed reaching 55-65 kmph gusting to 75 kmph) very likely over Eastcentral and adjoining Northeast Arabian Sea along & off Maharashtra-south Gujarat coasts. Sea condition will be rough to very rough over these areas. Fishermen are advised not to venture into these areas.
- 18 October (Day 4): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands. Thunderstorm with lightning very likely at isolated places over East Rajasthan, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

- 19 October (Day 5): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands and Odisha. Thunderstorm with lightning likely at isolated places over Marathwada, Coastal Andhra Pradesh, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 15 to 23 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)**

### **Konkan**

#### **Weather condition:**

Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 0.3 to 8.0 Bright sunshine hours was recorded during last week. During last week 27.6 mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 29.5 to 33.0 and 22.0 to 25.0 oC respectively. Wind velocity ranged from 0.3 to 3.9 km and wind was blowing from south westerly Direction.

#### **Contingency measure:**

##### **Kharif rice:**

- There is forecast of moderate rainfall, harvest the matured rice varieties during clear weather (no rainfall), keep threshed grains in protective shed for drying after immediate threshing. Maintain the optimum water level of 5 cm in late rice varieties field

##### **Finger millet:**

- Due to forecast of moderate rainfall, harvest the matured varieties of finger millet crop during clear weather (no rainfall) by cutting of ear head with sickle and dry in the safe and protective shed. Follow threshing after drying

##### **Mango:**

- Due to forecast of moderate rainfall, postpone the pruning operation in old unproductive and high-density mango orchard
- Due to forecast of moderate rainfall, postpone the protective spraying operation against pest, disease on new vegetative flush of mango

##### **Cashewnut:**

- Due to forecast of moderate rainfall, postpone the protective spraying operation against pest, disease on new vegetative flush of cashewnut

##### **Coconut:**

- Due to forecast of moderate rainfall, postpone the spraying operation for control of eriophyid mite and rugose spiraling white fly on coconut
- Due to forecast of moderate rainfall, make arrangement for drain out excess water from coconut orchard

**Arecanut:**

- Due to forecast of moderate rainfall, make arrangement for drain out excess water from arecanut orchard

**Water melon:**

- Due to forecast of moderate rainfall, postpone the sowing of watermelon crop

**Okra:**

- Due to forecast of moderate rainfall, postpone the sowing of okra crop

**Vegetable nurseries / new fruit crop plantation:**

- Due to forecast of moderate rainfall, make arrangement for drain out excess water from vegetable crops nurseries and newly planted fruit crop orchard
- As there is forecast for increase in wind speed, provide mechanical support to newly planted fruit crop

**Milch animals/Goat:**

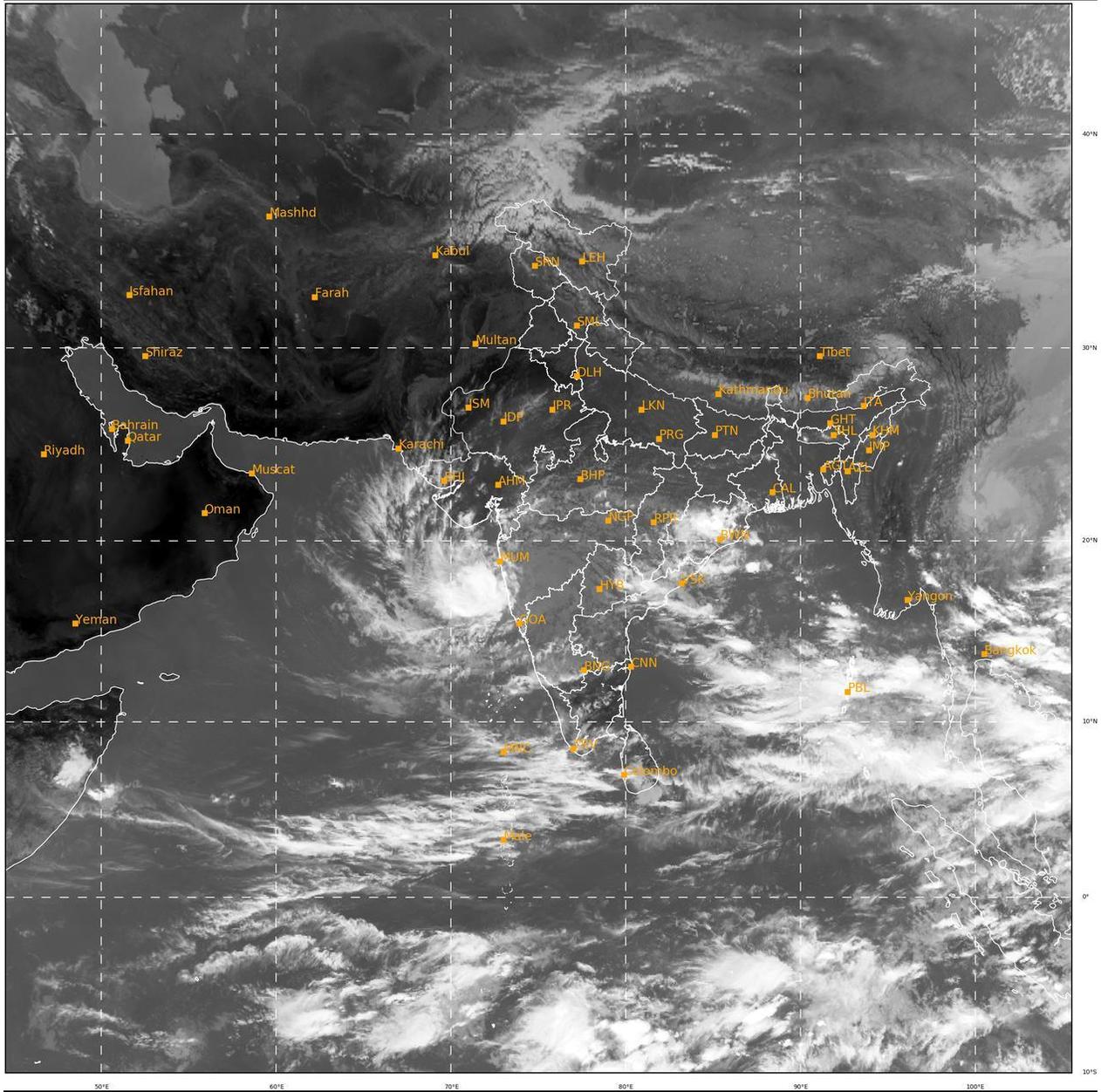
- Due to forecast for thunderstorm along with lighting at isolated places over district, Keep farm animals at safe place and away from open water, pond or river

**Poultry:**

- For boiler poultry bird upto three-week-old bird, provide boiler starter and 4 to 6 week old bird provide boiler finisher as per their daily requirement
- Vaccination against Newcastle disease (Ranikhet) to 4 -5 days old chicks under supervision of veterinary officers is advocated

SAT : INSAT-3D IMG  
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15-10-2020/(0800 to 0827) GMT  
15-10-2020/(1330 to 1357) IST

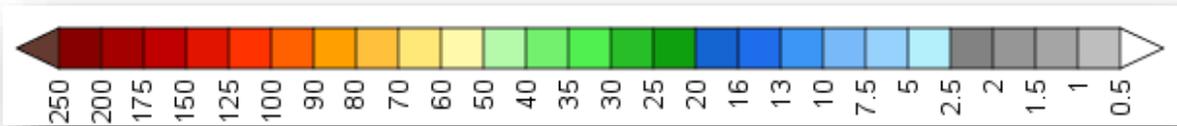
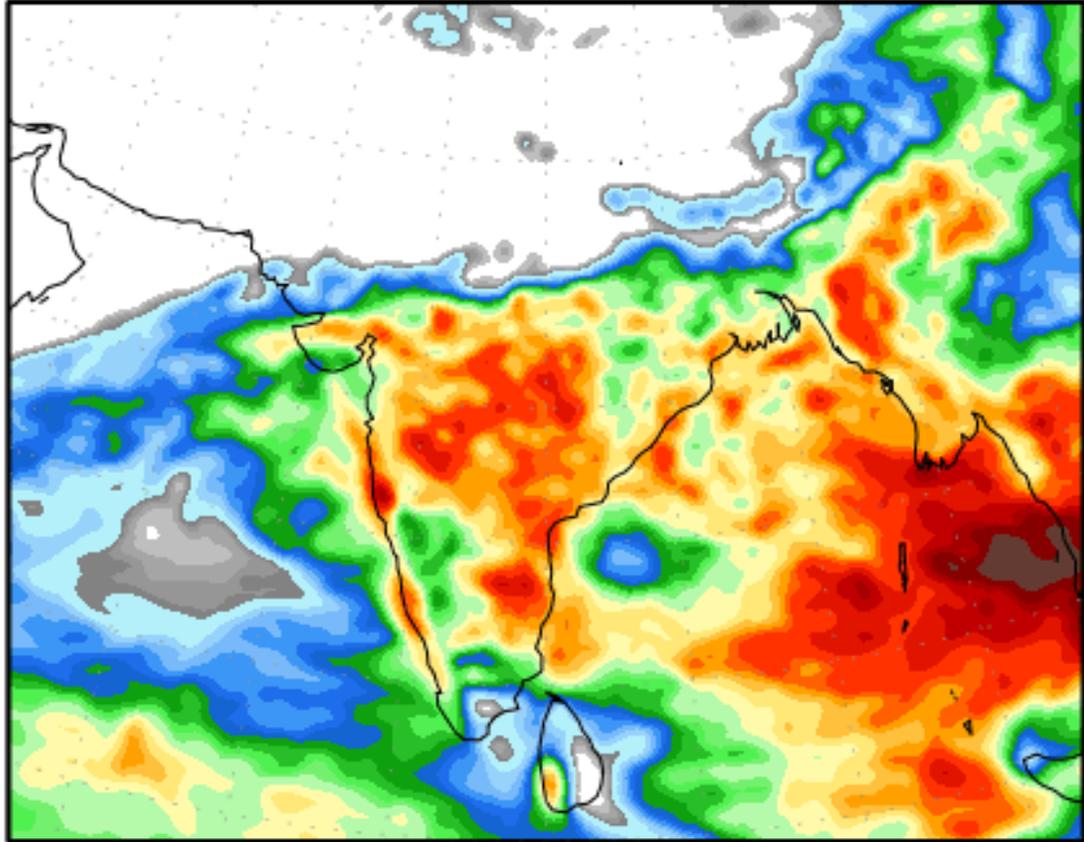


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IMD,DELHI

Figure: 1. Latest available satellite picture as on 15 October 2020 at 1357 Hrs (IST).  
(Source: IMD).



**Figure:2. Precipitation forecast for 15 to 23 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.*