

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

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

### **Daily Crop Weather Information as on 05 October 2021**

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

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

- Conditions continue to remain favourable for commencement of withdrawal of Southwest Monsoon from some parts of Northwest India during next 24 hours.
- A cyclonic circulation lies over Southwest Bay of Bengal & neighbourhood extending upto middle tropospheric levels tilting southwards with height. A trough in easterlies runs from the above cyclonic circulation to south Kerala in lower tropospheric levels. Under the influence of these systems, Isolated heavy falls very likely over Tamilnadu and Kerala on 05th & 06th and over Karnataka during 05th-07th October, 2021. Isolated very heavy falls also very likely over South Interior Karnataka, Tamilnadu and Kerala on 05th; over Coastal Karnataka on 06th October, 2021.
- A cyclonic circulation lies over Sub-Himalayan West Bengal & neighbourhood and extends upto 4.5 km above mean sea level. Under its influence; Isolated heavy falls very likely over south Assam and Tripura during next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/Thundershowers observed (0830 hrs IST of yesterday to 0830 hrs IST of today) at most places over Arunachal Pradesh, Kerala & Mahe and Lakshadweep; at many places over Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Marathwada, Sub-Himalayan West Bengal & Sikkim and Karnataka; at a few places over Haryana, Chandigarh & Delhi, Vidarbha, Chhattisgarh, Gangetic West Bengal, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Telangana and at isolated places over Uttarakhand, Punjab, Uttar Pradesh, Rajasthan, Madhya Pradesh, Bihar, Jharkhand, Odisha, Gujarat State and Rayalaseema.
- Heavy Rainfall recorded (0830 hrs IST of yesterday to 0830 hrs IST of today): Very heavy rainfall at isolated places over Madhya Maharashtra and Assam and Heavy rainfall at isolated places over Punjab, West Rajasthan, Kerala & Mahe,

Tamilnadu, Puducherry & Karaikal, East Madhya Pradesh, South Interior Karnataka, Arunachal Pradesh, Meghalaya and West Bengal & Sikkim.

- Thunderstorm observed (from 0830 hours of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttar Pradesh, Punjab, Himachal Pradesh, East Madhya Pradesh, Madhya Maharashtra, Marathawada, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Odisha, Jharkhand, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Tripura, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 04-10-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Madhya Maharashtra and Rayalaseema and at isolated places over Odisha; above normal (1.6°C to 3.0°C) at most places over South Interior Karnataka and Coastal Andhra Pradesh & Yanam; at many places over West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal & North Interior Karnataka and Telangana; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Gangetic West Bengal, East Madhya Pradesh, Konkan & Goa, Kerala & Mahe and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh, East Uttar Pradesh and West Madhya Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over West Rajasthan and at isolated places over Saurashtra & Kutch; below normal (-1.6°C to -3.0°C) at most places over Gujarat Region; at a few places over Bihar, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal and at isolated places over East Rajasthan and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.5°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 05-10-2021: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab, Uttarakhand, Haryana, Chandigarh & Delhi and Rajasthan; above normal (1.6°C to 3.0°C) at a few places over Saurashtra & Kutch, East Madhya Pradesh, Vidarbha, Jharkhand and West Bengal and at isolated places over Telangana, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Odisha and Andaman & Nicobar Islands and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.5°C was reported at Bulsar (Gujarat Region) over the plains of the country.

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

- 05 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Madhya Maharashtra, Marathwada, south Konkan & Goa, south Assam & Meghalaya, Tripura, south Coastal Andhra Pradesh, Rayalaseema and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Punjab, Haryana, East Uttar Pradesh, Northwest Rajasthan, south Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (wind speed reaching 40-50 kmph) very likely over Southwest Bay of Bengal off Tamilnadu coast. Fishermen are advised not to venture into these areas.
- 06 October (Day 2): Heavy to very heavy rainfall very likely at isolated places over Coastal Karnataka and Heavy rainfall at isolated places over Madhya Maharashtra, south Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.
- 07 October (Day 3): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada and Karnataka. Thunderstorm accompanied with lightning likely at isolated places over Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Rayalseema, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- 08 October (Day 4): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra and Marathwada. Thunderstorm accompanied with lightning likely at isolated places over Konkan & Goa, Madhya Maharashtra, Marathawada, Kerala & Mahe and Lakshadweep. Squally weather (wind speed reaching 40-50 kmph) likely over Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 09 October (Day 5): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Kerala & Mahe and Lakshadweep.
- The weather outlook for seven days i.e., 05 Oct to 13 Oct 2021 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)**

### **Marathwada**

#### **Weather condition:**

From 24.09.2021 to 30.09.2021 during this week Weather condition of Parbhani center total 133.9 mm rainfall was recorded. The Maximum temperature was range from 24.5 to 30.3 0C and minimum temperature range from 20.5 to 22.7 0C. Relative humidity (RH-I) ranged between 91-100% and relative humidity (RH-II) recorded was 60-94% The wind speed varied 1.7 to 5.1 km/hr.

#### **Contingency measure:**

- Cotton: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in cotton crop. Remove excess amount of water from cotton crop. As per forecast spraying and fertilizer application operations should be postponed.
- Soybean: As per rainfall received during last few days and forecast of rainfall for next five days precaution should be taken so that water may not stagnate in soybean crop. Remove excess amount of water from crop. As per forecast spraying operations should be postponed.
- Pigeon Pea: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in pigeon pea crop. Remove excess amount of water from pigeon pea crop. As per forecast spraying and fertilizer application operations should be postponed.
- Black/Green Gram: As per forecast harvested Black gram/Green gram crop should be store at safe places.
- Ground nut: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in groundnut crop. Remove excess amount of water from groundnut crop. As per

forecast spraying operations should be postponed.

- Maize: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in Maize crop. Remove excess amount of water from Maize crop. As per forecast spraying operations should be postponed.
- Turmeric: As per rainfall received during last few days and forecast of rainfall for next five days precaution should be taken so that water may not stagnate in Turmeric crop. Remove excess amount of water from crop. As per forecast spraying and fertilizer application operations should be postponed.
- Banana: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in Banana orchard. Remove excess amount of water from Banana orchard. As per forecast spraying and fertilizer application operations should be postponed.
- Mango: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in Mango orchard. Remove excess amount of water from Mango orchard.
- Grape: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in Grape orchard. Remove excess amount of water from Grape orchard.
- Custard Apple: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in Custard apple orchard. Remove excess amount of water from Custard apple orchard.
- Pomegranate: As per rainfall received during last few days and forecast of rainfall for next five days precaution should be taken so that water may not stagnate in Pomegranate orchard. Remove excess amount of water from orchard. As per forecast spraying and fertilizer application operations should be postponed.
- Vegetable: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in vegetable crops. Remove excess amount of water from vegetable crops. As per forecast spraying and fertilizer application operations should be postponed.
- Floriculture: As per rainfall received during last week and forecast of rainfall for next few days, precaution should be taken so that water may not stagnate in Floriculture crop. Remove excess amount of water from Floriculture crop.
- Animal: Under present circumstances in many parts intestinal schistosomosis infection is occurring in livestock particularly cattle. Bloody diarrhoea, anorexia

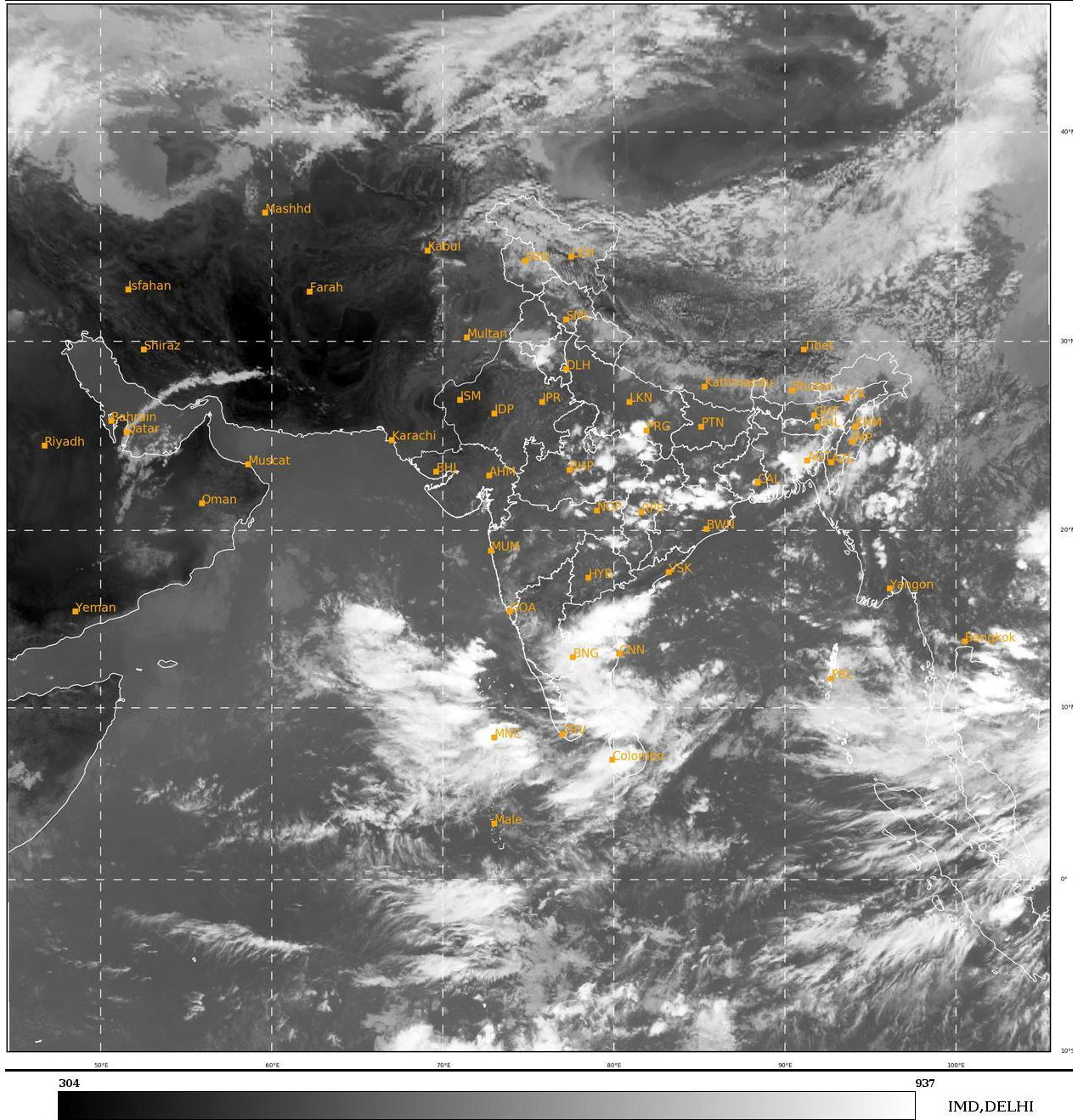
are the symptoms noticed. The disease is transmitted by snails. Hence the area in which snail population is high cordoning of water body and grazing land shall be done and animals shall not be taken such area. The affected livestock shall be treated with praziquantel like anthelmintics of veterinary physician.

- Sericulture: At the setting of fourth molt dusting of lime and after passing the molt half hour Vijetha powder should be dusted @ 4kg/100 dfls. Use 10-15 kg lime in rainy season for dusting on 100 dfls at alternate day interval. In rainy season humidity will remain more than 85% to reduce the formation of poisonous gases good ventilation in pakka rearing house like Carbon Dioxide, Carbon Monoxide, sulphur dioxide ensure air passing @ 1 m/sec. exit fans should be ON Grassie and Flachie diseases are visible on worms. Swelling of internodes worms turn white after infection of Grassie and Flachie will get increased. In such atmosphere fleshy and double cocoons formed.

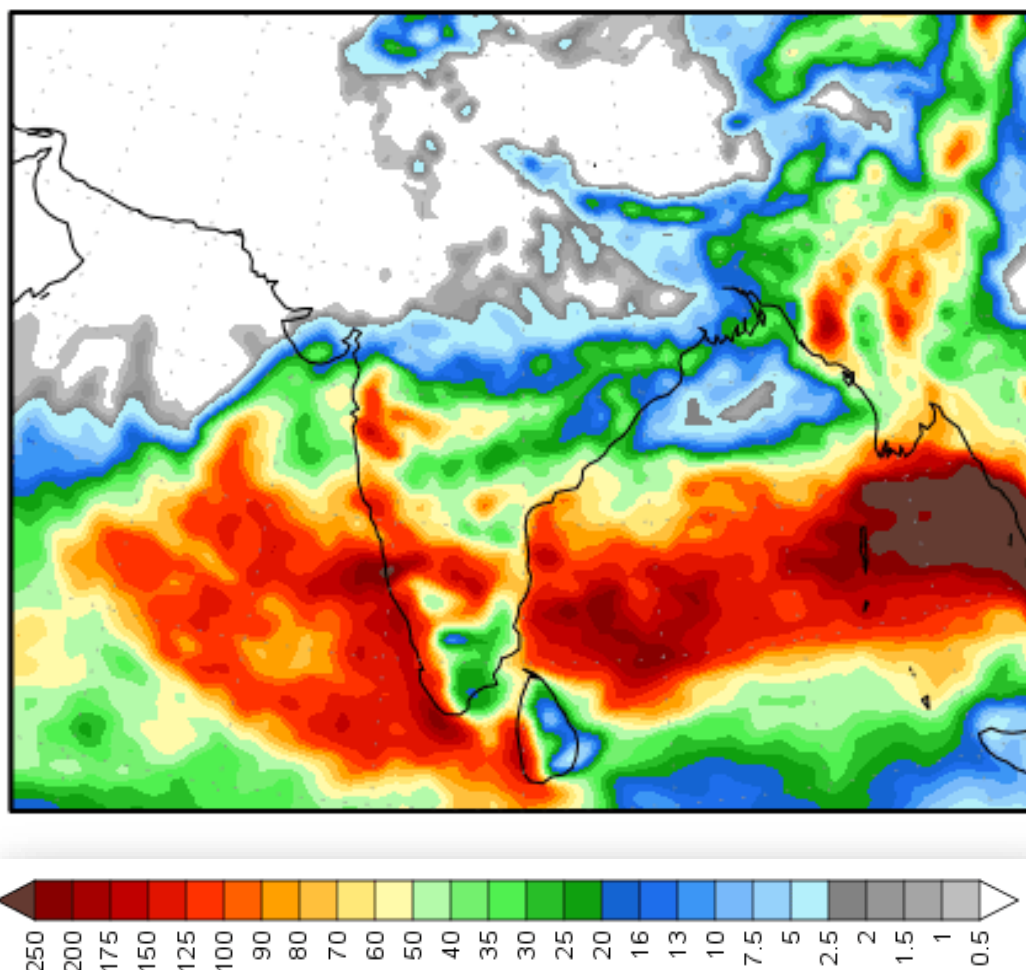


SAT : INSAT-3D IMG  
 IMG\_TIR1 10.8 um  
 L1C Mercator

05-10-2021/(0800 to 0826) GMT  
 05-10-2021/(1330 to 1356) IST



**Figure: 1. Latest available satellite picture as on 05 Oct 2021 at 1356 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 05 Oct to 13 Oct 2021 (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.*