

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

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

### **Daily Crop Weather Information as on 03 May 2019**

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

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

- The Extremely Severe Cyclonic Storm 'FANI' (pronounced as 'FONI') over Northwest & Adjoining Westcentral Bay of Bengal moved north - northeastwards with a speed of about 20 kmph in last 06 hours and lay centred at 0830 hrs IST of 3rd May, 2019 over Northwest Bay of Bengal, near Latitude 19.6°N and Longitude 85.7°E, about 25 Km south-southwest of Puri (Odisha), 90 km east-southeast of Gopalpur (Odisha), about 300 km east-northeast of Vishakhapatnam (Andhra Pradesh) and 330 km southwest of Digha (West Bengal). Landfall Process of the system has started at 0800 hours IST and the system has crossed the coast close to Puri between 0800 to 100 hours IST of today, the 3rd May 2019. The system is very likely to continue to move north-northeastwards and weaken gradually.
- The images showing the latest satellite picture in 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 Jammu & Kashmir, Uttarakhand and Andaman & Nicobar islands; at many places over Assam & Meghalaya, Arunachal Pradesh and West Bengal & Sikkim; at a few places over Nagaland, Manipur, Mizoram & Tripura, Punjab and Haryana, Chandigarh & Delhi and at isolated places over West Uttar Pradesh. Very heavy to heavy rainfall is observed at a few places over Odisha and at isolated places over Coastal Andhra Pradesh. Thunderstorms observed at isolated places over West Uttar Pradesh and Gangetic West Bengal from 0530 hours IST to 0830 hours IST of today.
- Yesterday, heat wave conditions were observed over isolated pockets of Vidarbha and East Uttar Pradesh.
- Maximum temperature departures as on 02.05.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Tamil Nadu & Puducherry; above normal (1.6°C to 3.0°C) at most places over East Uttar Pradesh and Telangana; at many places over East Madhya Pradesh and Assam & Meghalaya; at a few places over

Haryana, Chandigarh & Delhi, Vidarbha and Konkan & Goa; at isolated places over Uttarakhand, East Rajasthan, Saurashtra & Kutch, West Bengal & Sikkim and Andaman & Nicobar islands. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Jammu & Kashmir; at a few places over Odisha and Jharkhand; below normal(-1.6°C to -3.0°C) at many places over Himachal Pradesh, Madhya Maharashtra, Chhattisgarh and Arunachal Pradesh; at a few places over South Interior Karnataka and Rayalaseema and near normal over rest of the country.

- The highest maximum temperature of 46.4°C is recorded at Brahmapuri (Vidarbha).
- Minimum temperature departures as on 03.05.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Bihar; at many places over Chhattisgarh and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at many places over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar islands; at a few places over East Rajasthan, West Madhya Pradesh, Jharkhand, Assam & Meghalaya, Gangetic West Bengal and Coastal Andhra Pradesh and at isolated places over West Rajasthan, East Madhya Pradesh and Tamilnadu & Puducherry; They are below normal (-1.6°C to -3.0°C) at many places over Jammu & Kashmir and Himachal Pradesh; at a few places over Uttarakhand, Odisha, Vidarbha, Telangana and Madhya Maharashtra at isolated places over Punjab and Haryana, Chandigarh & Delhi and near normal over rest parts of the country.

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

- 03 May (Day 1): Gale wind speed reaching 170-180 kmph gusting to 200 kmph is very likely along & off Puri & Jagatsinghpur districts of Odisha. Gale wind speed reaching 150-160 kmph gusting 180 kmph very likely along & off remaining districts of coastal Odisha and north Andhra Pradesh. Squally wind speed reaching 40-50 kmph gusting 60 kmph is very likely along & off West Bengal coast during next 12 hours. It is very likely to become gale wind speed reaching 60-70 kmph gusting to 85 kmph from the afternoon. Sea conditions very likely to be phenomenal over northwest & adjoining west central Bay of Bengal, off north Andhra Pradesh and south Odisha coast during next 03 hours and it is very likely to become high to very high subsequently. Fishermen are advised not to venture into these areas. Thunderstorm accompanied with squall (wind reaching 50-60 kmph) very likely over East Uttar Pradesh. Thunderstorm accompanied with squally (wind reaching 40-50 kmph) very likely over Himachal Pradesh and Uttarakhand. Thunderstorm & lightning accompanied with gusty wind (40-50 kmph) at isolated places very likely over West Uttar Pradesh. Thunderstorm & lightning accompanied with gusty wind (30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Chhattisgarh, Bihar and Sub-Himalayan West Bengal & Sikkim. Duststorm/thunderstorm accompanied with lightning & gusty wind (30-40 kmph) at isolated places very likely over East Rajasthan. Heavy to very heavy rain at a few

places with extremely heavy falls at isolated places very likely over coastal Odisha & adjoining districts of Interior Odisha , coastal & adjoining districts of West Bengal; heavy to very heavy rain at isolated places very likely over North coastal Andhra Pradesh, Assam & Meghalaya; heavy rainfall at isolated places very likely over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions in isolated pockets very likely over Vidarbha, Coastal Andhra Pradesh, Rayalaseema and Tamilnadu.

- 04 May (Day 2): Gale wind, speed reaching 90-100 kmph gusting to 115 kmph very likely to prevail along & off West Bengal coast for about 12 hours and decrease thereafter. Sea conditions likely to be very rough to high over northwest Bay of Bengal , along & off Odisha and West Bengal coasts. Fishermen are advised not to venture into these areas. Strong surface winds (speed reaching 30-40 kmph ) likely to prevail over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall and extremely heavy fall at isolated places very likely over Assam & Meghalaya; heavy to very heavy rain very likely at isolated places over Odisha, Gangetic West Bengal and Arunachal Pradesh and heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura. Heat Wave Conditions in isolated pockets very likely over Vidarbha, Coastal Andhra Pradesh, Rayalaseema and Tamilnadu.
- 05 May (Day 3): Strong surface winds speed reaching 30-40 kmph likely to prevail over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm & lightning accompanied with gusty wind (30-40 kmph) at isolated places over Tamilnadu & Puducherry. Heavy to very heavy rain very likely at isolated places over Assam & Meghalaya and Arunachal Pradesh. Heat Wave Conditions very likely in some parts over Vidarbha and at isolated pockets over Madhya Pradesh.
- 06 May (Day 4): Heat Wave Conditions very likely in some parts over Vidarbha and at isolated pockets over Madhya Pradesh.
- 07 May (Day 5): Thunderstorm & lightning accompanied with gusty wind (30-40 kmph) at isolated places over Tamilnadu & Puducherry. Heat Wave Conditions in some parts likely over Vidarbha and in isolated pockets over Madhya Pradesh.
- The weather outlook for the period of seven days *i.e* 03 to 10 May 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Bengal & Sikkim, Gangetic West Bengal, West Uttar Pradesh, Odisha, Coastal Andhra Pradesh, Andaman & Nicobar islands and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### **Kerala**

#### **Weather condition:**

Light rainfall received in Kerala state during past few days. The maximum temperature ranges from 34.8 to 37.5 °C and minimum temperature ranges from 21.6 to 26.8 °C.

#### **Contingency measure:**

- **Banana:** Sigatoka disease. During this special weather condition, there is a chance of sigatoka disease in banana. As a precaution, Spray 20g Pseudomonas per one litre of water.
- **Coconut: Management:** Since air temperature is increasing, it is a desirable practice to bury fresh or dried coconut husk around the palm to conserve soil moisture. The husk can be buried either in linear trenches taken 3 meter away from the trunk between rows of palms or in circular trenches taken around the palm at a distance of 2 meter from the trunk. The trenches may be of 0.5 meter width and depth. The husks are to be placed in layers with concave surface facing upwards and covered with soil. The beneficial effect of husk burial will last for about 5 to 7 years. Instead of husk, coir pith can be buried @ 25 kg/palm/year.
- **Vegetables(Bhindi):** Due to increase in atmospheric temperature, the attack of Jassids in Bhindi was increased. They can be controlled by applying 2% neem oil emulsion once in a week or by spraying Lecanicillium lecanii at 20 g per litre of water.
- **Animal Husbandry:** Assure increased ventilation in the shed. (CAADECCS, KVASU, Mannuthy).

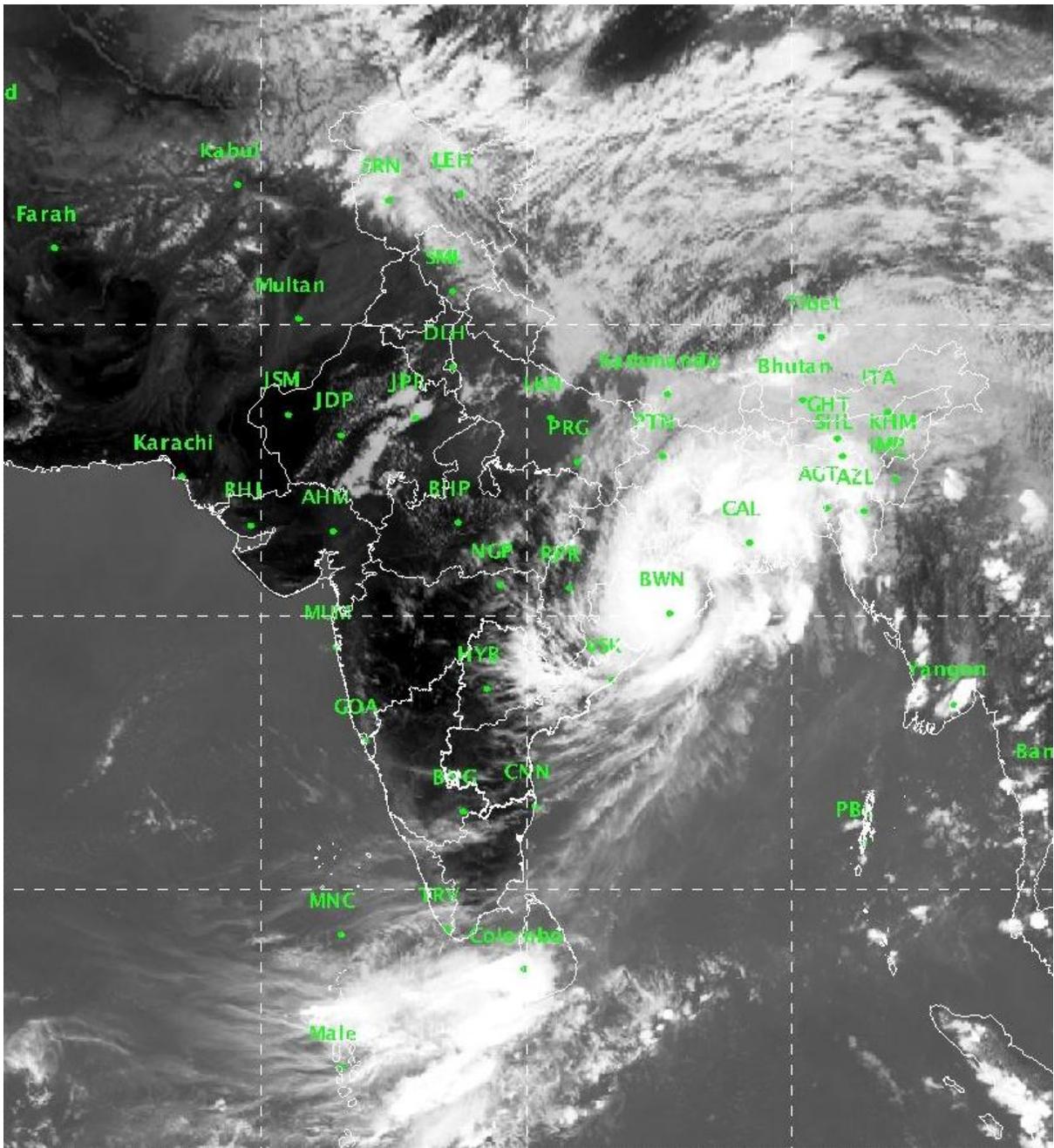
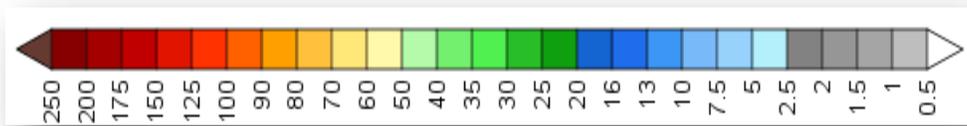
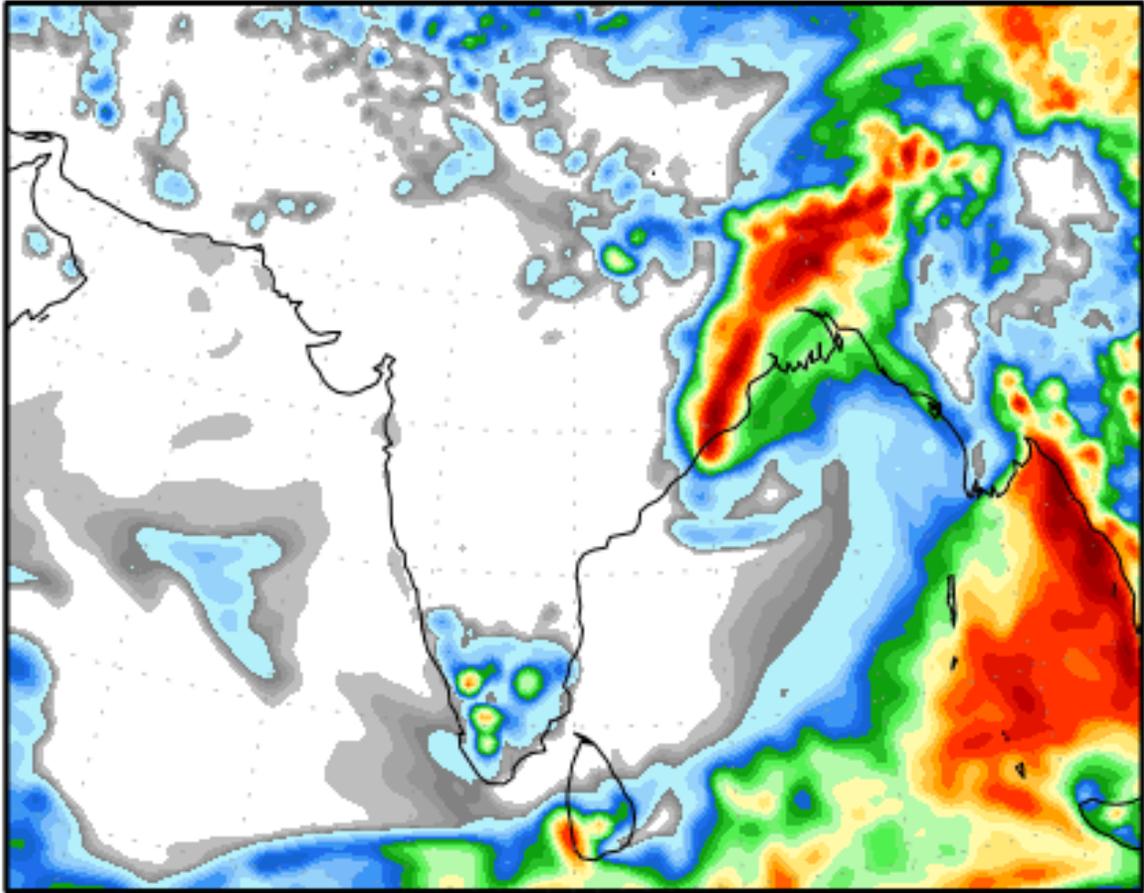


Figure: 1. Latest available satellite picture as on 03 May 2019 at 0230 Hrs (IST).

(Source: IMD).



**Figure: 2. Precipitation forecast for 03 to 10 May 2019 (Source: NOAA NCEP).**