

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

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

### **Daily Crop Weather Information as on 28 March 2019**

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

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

- Scattered to fairly widespread rain/thundershowers with isolated thundersquall/lightning very likely over Northeast India during 30th march to 1st April and over East India on 31st March and 1st April 2019.
- Day maximum temperatures are likely to rise by 2-3°C over Northwest & East India during next 3 days.
- The prevailing maximum temperatures between 38°C to 40°C are likely to continue over some parts of Maharashtra and at isolated pockets over peninsular India during next 3 days. No heat wave conditions are likely over the country during next 3 days.
- 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 a few places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Andaman & Nicobar Islands, Odisha, Coastal & North Interior Karnataka and Kerala.
- Yesterday, heat wave conditions were observed at isolated places over Saurashtra & Kutch.
- Maximum temperature departures as on 27.03.2019: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Jammu & Kashmir; at isolated places over Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at a few places over Madhya Maharashtra; at isolated places Kerala; above normal (1.6°C to 3.0°C) at most places over West Rajasthan, Gujarat Region, Vidarbha, Marathwada and Rayalaseema; at many places over South Interior Karnataka and Lakshadweep; at a few places over Assam & Meghalaya, Uttarakhand, West Madhya Pradesh, Telangana, Tamilnadu & Pudducherry and at isolated places over Konkan & Goa. They were below normal (-1.6°C to -3.0°C) at most places over

Gangetic West Bengal; East Uttar Pradesh; at many places over Andaman & Nicobar Islands, Jharkhand, Bihar, West Uttar Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh; at isolated places over East Uttar Pradesh and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 42.2°C was recorded at Amraoti (Vidarbha) over the country.
- Minimum temperature departures as on 28.03.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Saurashtra & Kutch; at a few places over Himachal Pradesh, West Rajasthan; at isolated places over Jammu & Kashmir and Coastal Karnataka; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over Gujarat Region, North Interior Karnataka; Lakshadweep and at isolated places over Gangetic West Bengal, Odisha, South Interior Karnataka and Kerala. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Bihar; below normal (-1.6°C to -3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over East Madhya Pradesh; at a few places over Assam & Meghalaya, Haryana, Chandigarh & Delhi, East Rajasthan, West Madhya Pradesh and Vidarbha; at isolated places over Tamilnadu & Pudducherry and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 12.0°C recorded at Rewa (East Madhya Pradesh) over plains of the country.

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

- 28 March (Day 1): Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Coastal Andhra Pradesh.
- 29 March (Day 2): No weather warning.
- 30 March (Day 3): Thunderstorm accompanied with squall & lightning at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya and West Bengal & Sikkim.
- 31 March (Day 4): Thunderstorm accompanied with squall & lightning at isolated places likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim and Jharkhand. Thunderstorm accompanied with gusty winds & lightning at isolated places likely over Arunachal Pradesh, Gangetic West Bengal, Bihar, Odisha, Telangana and Coastal Andhra Pradesh.
- 01 April (Day 5): Thunderstorm accompanied with squall & lightning at isolated places likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur,

Mizoram & Tripura and West Bengal & Sikkim. Thunderstorm accompanied with gusty winds & lightning at isolated places likely over Odisha, Bihar, Jharkhand, Coastal Andhra Pradesh and Telangana..

- The weather outlook for the period of seven days *i.e* 28 March to 04 April 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Odisha, Coastal & North Interior Karnataka, Kerala, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

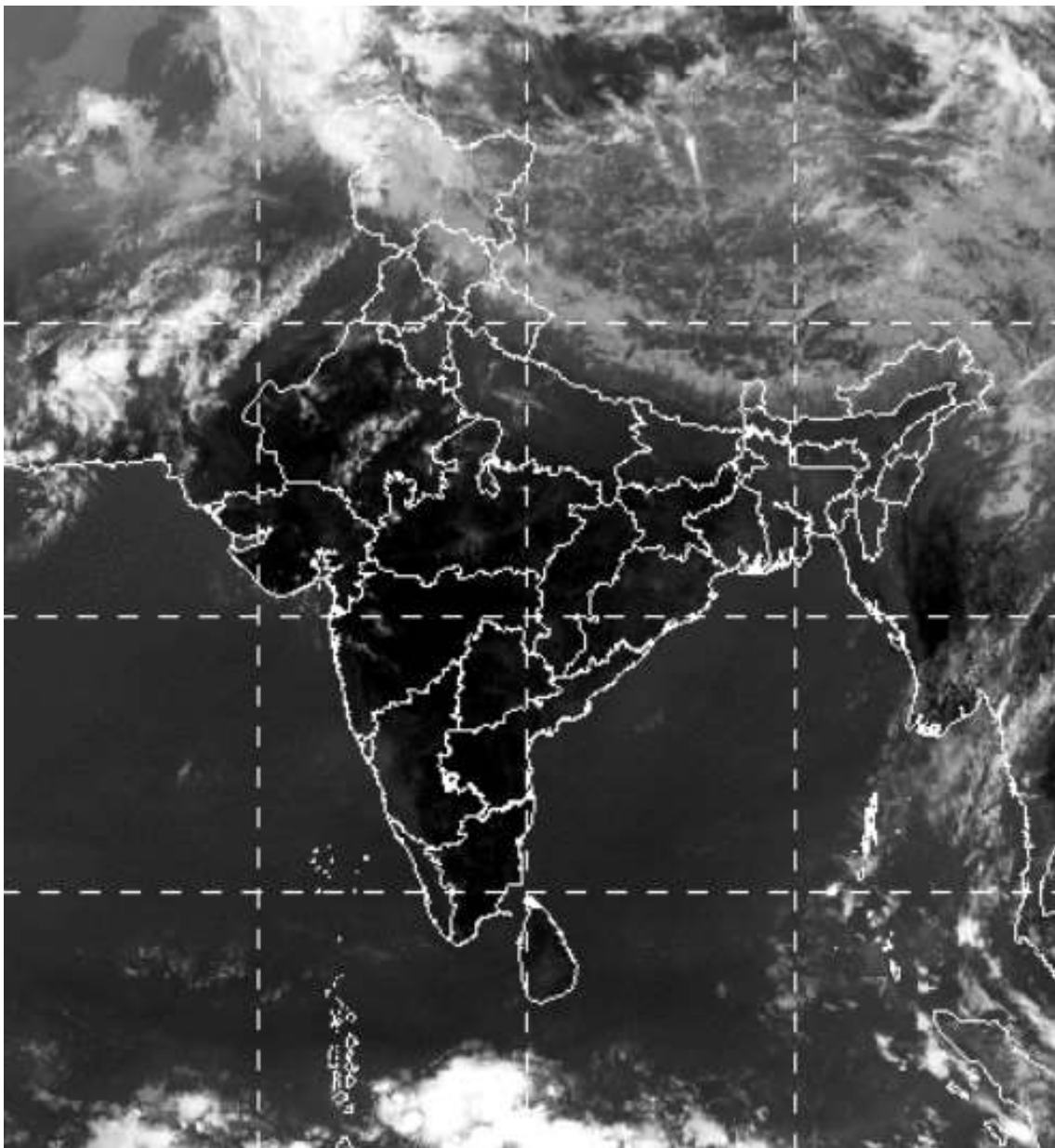
### **Punjab**

#### **Weather condition:**

Dry weather prevailed in Punjab state during past few days. The maximum temperature ranged between 32.0 to 36.0°C and minimum temperature ranged between 15.0-18.0 °C.

#### **Contingency measure:**

- **Wheat:** Survey the wheat crop for aphid attack. If 5 or more aphids/earhead is seen, spray 20g Actara 25 WG in 80-100 litres of water per acre. Farmers are advised to survey the field for the appearance of yellow rust disease in wheat. If appeared, spray with 200 ml Tilt/ Bumper/Shine/Stilt/Compass/Markzole 25 EC using 200 litres of water per acre to check its further spread.
- **Mustard:** In gobhi sarson/ raya, if infestation of aphids reach 40-50 % (observe 100 plants/acre), spray 40 g Actara 25 WG or 400 ml Rogor 30 EC or 600 ml Dursban 20 EC in 80-125 litres of water per acre.
- **Sugarcane:** Complete the sowing of sugarcane and use recommended varieties i.e. CoPB-92, Co118, CoJ-85, CoJ-64 (early maturing), CoPB-94, CoPB-93, CoPB-91, Co-238, CoJ-88 for mid season and late maturing.
- **Vegetables:** It is the best time for direct sowing of all the cucurbits, okra and cowpea. To control powdery mildew in cucurbits, spray the crop with 50-80 ml Karathane 25 EC using 100 litres of water per acre. Repeat, if the need arises at 14 days interval. For the control of purple blotch in onion, spray the crop with 600 g of Indofil M-45 mixed with 200 ml of Triton or linseed oil in 200 litres of water per acre as soon as first symptom of purple blotch appears in the crop. The spray should be repeated at 10 days interval.
- **Fruit Plants:** It is suitable time for planting evergreen fruit plants such as citrus, guava, mango, papaya, sapota, litchi and loquat. For management of citrus psylla, spray 200 ml Crocodile/Confidor 17.8 SL (Imidacloprid) or 160 g Actara/Dotara (Thiamethoxam) by mixing in 500 liters of water per acre. To control aphids in peach, spray Rogor 30 EC @ 1.6 ml per liter of water. To manage anthracnose in grapes; spray Bavistin @ 1.0 g per litre water.



**Figure: 1. Latest available satellite picture as on 28 March 2019 at 0230 Hrs (IST).**

**(Source: IMD).**

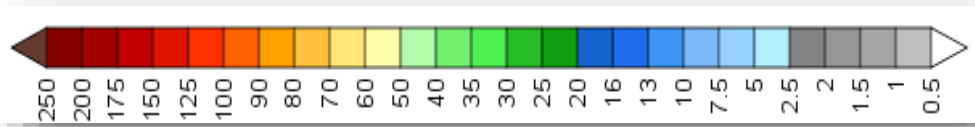
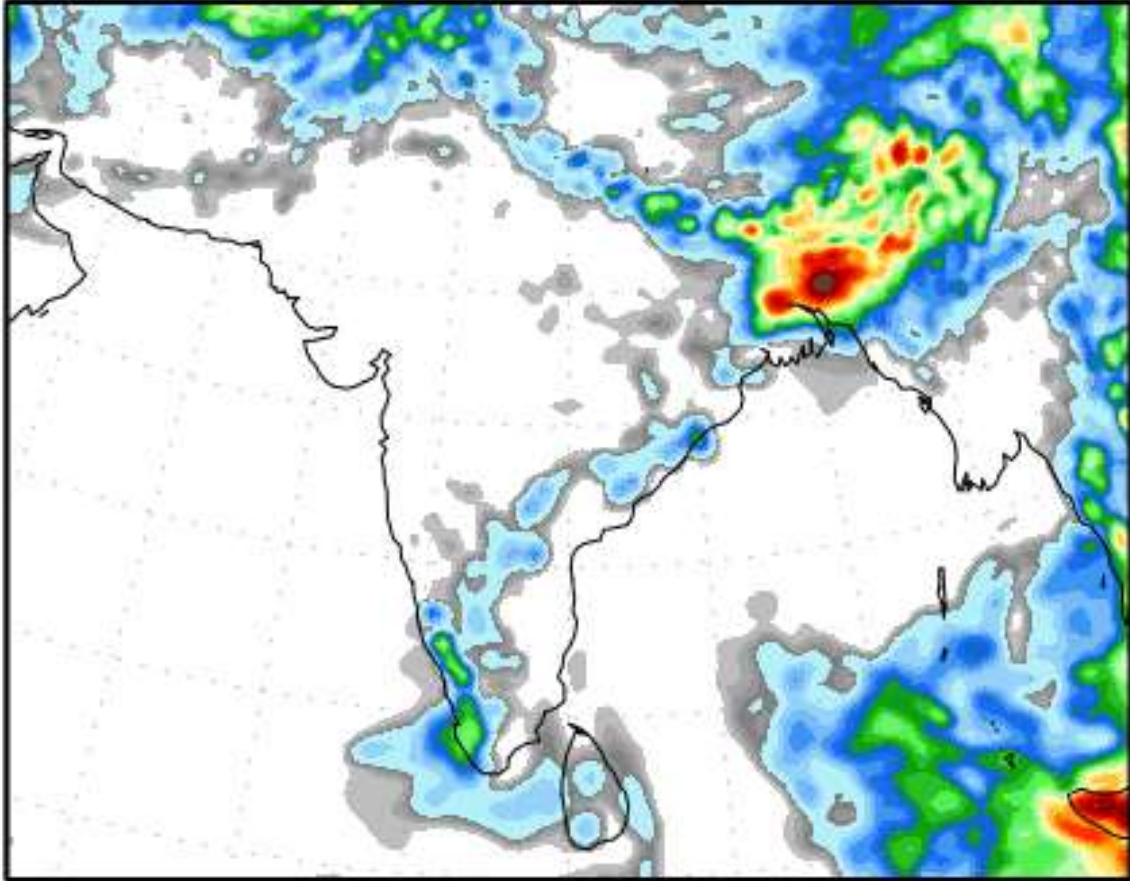


Figure: 2. Precipitation forecast for 28 March to 04 April 2019 (Source: NOAA NCEP).