

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

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

### **Daily Crop Weather Information as on 17 March 2021**

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

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

- A Western Disturbance as a cyclonic circulation lies over north Pakistan & adjoining Jammu & Kashmir between 3.1 & 3.6 km above mean sea level. Under its influence, isolated to scattered rainfall/snowfall very likely over the Western Himalayan region (Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand ) and over adjoining plains of northwest India on 17th & 18th March.
- Due to trough/wind discontinuity in lower levels over central parts of India: i) Isolated to scattered rainfall with thunderstorm, lightning and gusty winds (speed reaching 30-40 kmph) very likely over Madhya Pradesh, Vidarbha and Chhattisgarh during next 4 days. ii) Isolated Hailstorm also very likely over West Madhya Pradesh during 18th-19th March and over East Madhya Pradesh, Vidarbha and Chhattisgarh on 19th March.
- Under the influence of a trough in westerlies in lower tropospheric levels with its axis at 1.5 km above mean sea level roughly along longitude 88°E to the north of latitude 25°N, isolated to scattered rainfall very likely over northeast India during next 24 hours and decrease in intensity and spatial distribution thereafter.
- No heat wave very likely over the country during next 5 days except over Saurashtra & Kutch, where heat wave conditions in isolated places are very likely on 17th & 18th March.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Arunachal Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, East Madhya Pradesh and Kerala & Mahe.
- Heat Wave conditions observed in isolated pockets over Saurashtra & Kutch.
- Thunderstorm activity observed (from 1730 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over East Madhya Pradesh.

- Maximum Temperature Departures as on 16-03-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Punjab, West Rajasthan and Saurashtra & Kutch; at many places over Arunachal Pradesh, Himachal Pradesh and Uttarakhand; at a few places over Vidarbha and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, East Rajasthan, Gujarat Region and Odisha; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Bihar, Gangetic West Bengal, Konkan & Goa and Marathwada; at a few places over Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh and Coastal Karnataka and at isolated places over Telangana and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.8°C was reported at Khargone (West Madhya Pradesh) over the country.
- Minimum Temperature Departures as on 17-03-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over west Rajasthan; at isolated places over Himachal Pradesh and East Rajasthan; above normal (1.6°C to 3.0°C) at most places over Saurashtra & Kutch; at many places over Uttarakhand, Haryana, Chandigarh & Delhi, Gujarat Region, West Madhya Pradesh, Chhattisgarh, Assam & Meghalaya and Coastal Karnataka; at a few places over West Uttar Pradesh, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at isolated places over East Uttar Pradesh, Vidarbha and Madhya Maharashtra. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Rayalseema; below normal (-1.6°C to -3.0°C) at many places over South Interior Karnataka; at a few places over Gangetic West Bengal; and at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 12.5°C is reported at Bulsar (Gujarat Region) over the plains of the country.

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

- 17 March (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh and Assam & Meghalaya. Heat Wave conditions very likely at isolated places over Saurashtra & Kutch.

- 18 March (Day 2): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Madhya Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh and with lightning at isolated places over Rajasthan, Vidarbha, Chhattisgarh, Marathwada, Telangana, Coastal & South Interior Karnataka and Kerala & Mahe. Heat Wave conditions very likely at isolated places over Saurashtra & Kutch.
- 19 March (Day 3): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Madhya Pradesh, Vidarbha and Chhattisgarh; with lightning & hail at isolated places over Madhya Maharashtra and Marathwada and with lightning at isolated places over Uttar Pradesh, East Rajasthan, Gujarat region, Coastal & South Interior Karnataka and Kerala & Mahe.
- 20 March (Day 4): Thunderstorm with lightning & hail likely at isolated places over Madhya Maharashtra and Marathwada; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha and Chhattisgarh and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Bihar, Jharkhand, Gujarat Region, Konkan & Goa, Telangana and Kerala & Mahe.
- 21 March (Day 5): Thunderstorm with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana and Kerala & Mahe.
- The weather outlook for seven days i.e., 17 Mar to 25 March 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)**

### **Western U.P**

#### **Weather condition:**

Cloudy weather is expected in this region during 12 - 13 March and 2.2 mm rainfall forecast on 13 March, 2021. Maximum and minimum temperature may be expected 5.0-6.00C higher than its normal. North-Easterly/ South-Easterly winds may be prevailed 4.0 to 6.0 km higher than its normal during these days as per forecast.

#### **Contingency measure:**

- Wheat: Due to Western disturbance 2.2 mm rainfall forecast on 13 March 2021,

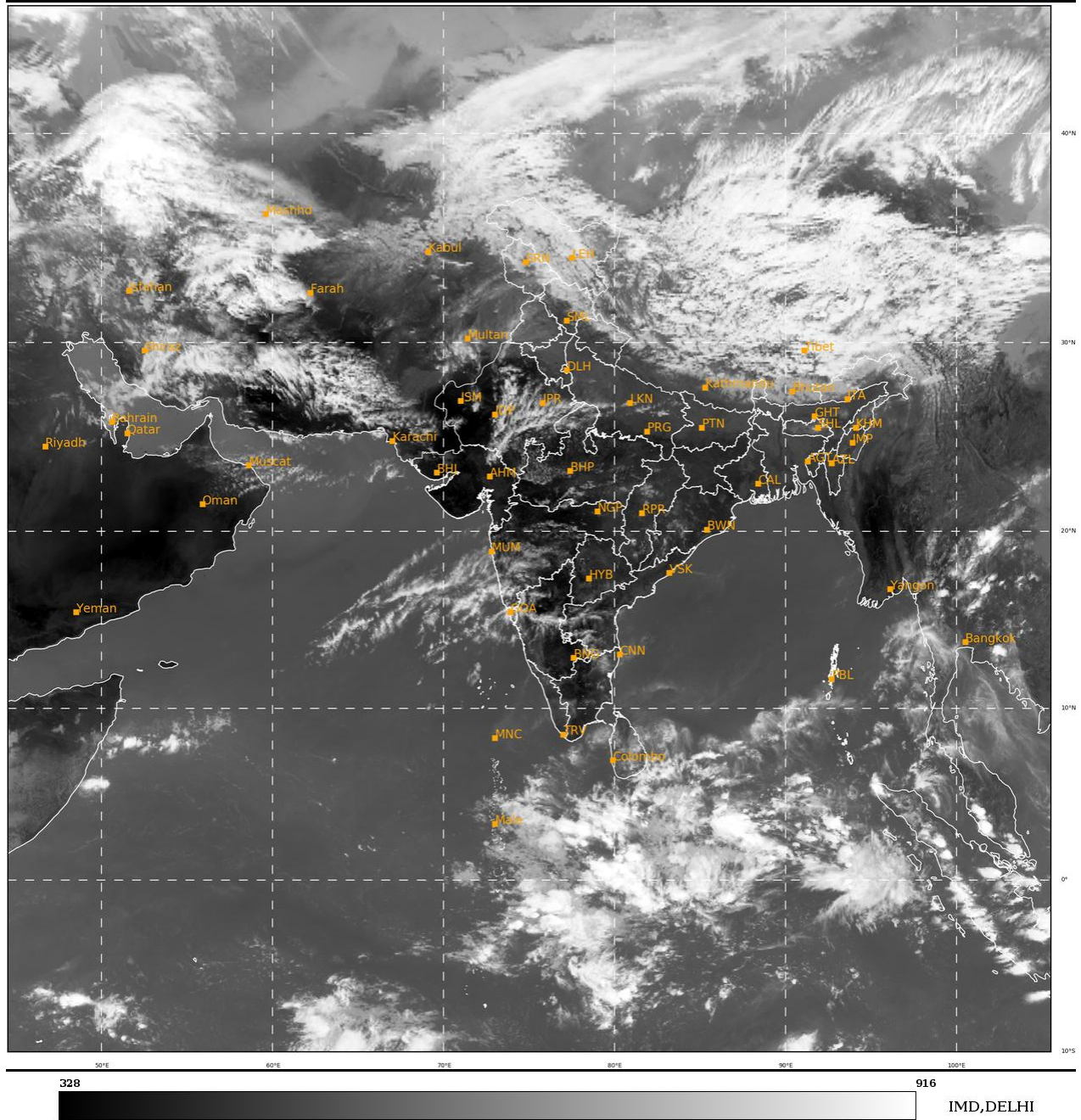
farmers are advised to postpone irrigation of wheat crop up to 13 March.

- Barley : In the rain-fed areas harvest mature barley crop after 13 March.
- Rabi maize: Postpone irrigation up to 13 March of Maize.
- Pigeon pea: Watchful insect and pest due to cloudy weather, easterly wind and high temperature during this week. If seen pad borer spray Chlorpyrifos 50% + Cypermethrin 5% EC @1.0 lt. with 500 to 600 lt. water solution after 13 march.
- Pea : Watchful insect and pest due to cloudy weather, easterly wind and high temperature during this week. If seen pad borer spray Chlorpyrifos 50% + Cypermethrin 5% EC @1.0 lt. with 500 to 600 lt. water solution after 13 march.
- Gram: Watchful insect and pest due to cloudy weather, easterly wind and high temperature during this week. If seen pad borer spray Chlorpyrifos 50% + Cypermethrin 5% EC @1.0 lt. with 500 to 600 lt. water solution after 13 march.
- Lentil: Postpone harvesting up to 13 March.
- Zaid Urd and Moong :Sowing should be done with recommended varieties after 13 March .
- Mustard: Harvest mature crop after forecasted rainfall of 13 March 2021.
- Linseed : Nil.
- Brinjal / Chili : Due to Western disturbance 2.2 mm rainfall forecast on 13 March 2021, Pick up mature fruits of standing crop. Farmers are advised to postpone irrigation up to 13 March .
- Leafy Vegetable: Cutting, marketing and farmers are advised to postpone irrigation up to 13 March.
- Potato: Dig out mature crop up to 12 March.
- Barseem:Third cutting should be taken up and top dressing of 20 kg urea at optimum moisture.
- Animal: Balanced diet should be given for milch animal. The routine immunization of animals is required, if needed concern near by Veterinary hospital.

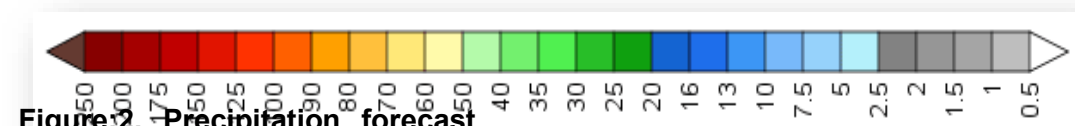
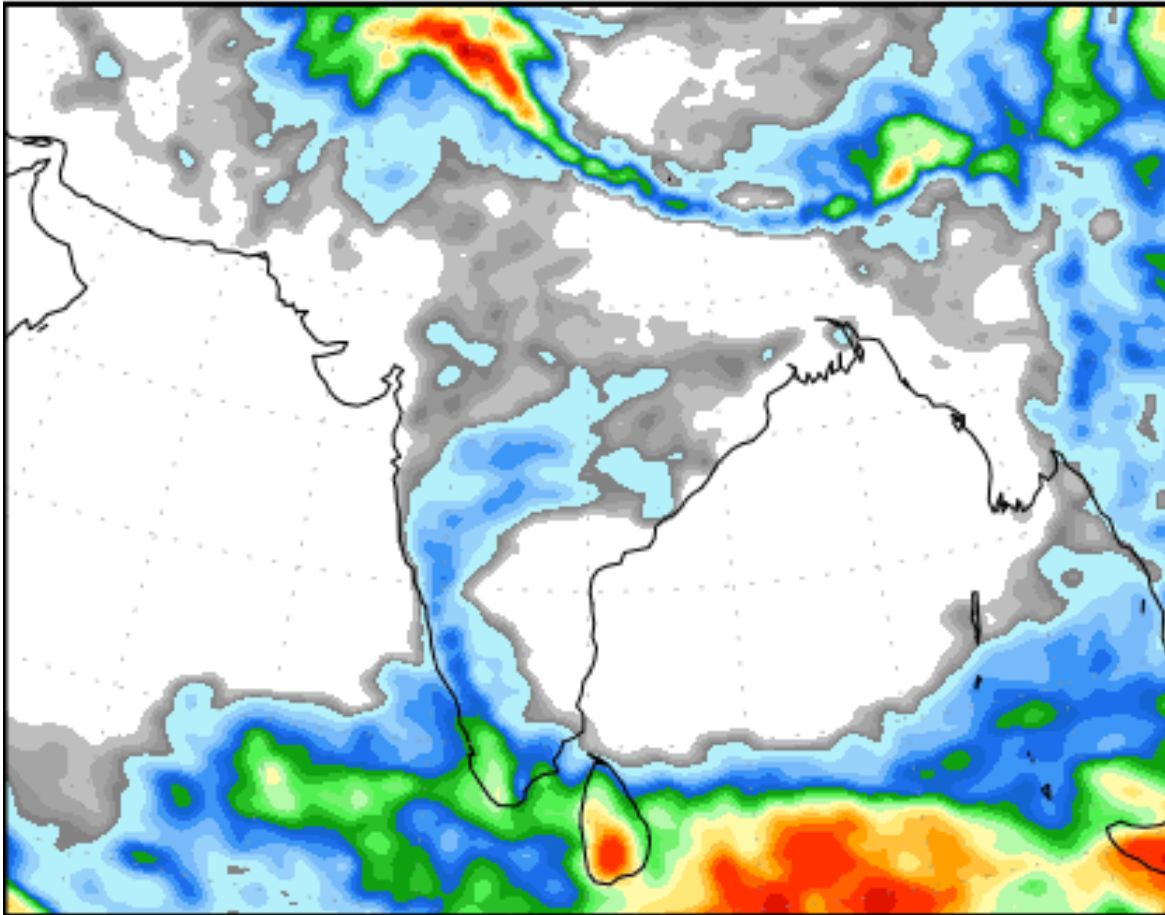


SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

17-03-2021/(0800 to 0827) GMT  
17-03-2021/(1330 to 1357) IST



**Figure: 1. Latest available satellite picture as on 17 March 2021 at 1357 Hrs (IST). (Source: IMD).**



**Figure 2. Precipitation forecast**  
for 17 to 25 March 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.*