

**All India Coordinated Research Project on Agrometeorology**  
**CRIDA, Santoshnagar, Hyderabad – 500 059**

**Daily Crop Weather Information as on 16 March 2021**

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

**Significant Weather Features (IMD)**

- A Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along longitude 72°E to the north of latitude 25°N. Another Western Disturbance as a cyclonic circulation lies over north Pakistan & adjoining Jammu & Kashmir in lower tropospheric levels. Under their influence: Isolated rainfall is likely over the Western Himalayan region during next 5 days except over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad where scattered to fairly widespread rainfall is likely on 16th & 17th March, 2021. Isolated trace to very light rainfall is likely over the plains of Northwest India during 18th-19th March, 2021 and isolated thunderstorm with lightning over the region on 18th March 2021.
- Under the influence of interaction between mid-level westerlies and lower level easterlies, thunderstorm/hailstorm activity is likely over Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha during 18th-20th March, 2021.
- A trough in westerlies in lower & middle tropospheric levels with its axis at 2.1 km above mean sea level runs roughly along longitude 90°E to the north of latitude 25°N. Fairly widespread rainfall is very likely over Arunachal Pradesh during next 2 days and decrease thereafter; isolated rain/thundershower is also likely over Arunachal Pradesh and Assam & Meghalaya during 16th-19th March, 2021.
- A fresh Western Disturbance is very likely to affect the Northwest India from the night of 20th March, 2021. Under its influence, a fresh spell of precipitation likely to start over Western Himalayan Region & adjoining plains from 20th March onwards.
- No heat wave very likely over the country during next 5 days except over Saurashtra & Kutch where heat wave conditions are likely today, the 16th March, 2021.
- The images showing the latest satellite picture in the figure. 1.

## Main Weather Observations (IMD)

- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over SubHimalayan West Bengal & Sikkim and West Madhya Pradesh.
- Maximum Temperature Departures as on 15-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Uttarakhand and at a few places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan and Saurashtra & Kutch; at a few places over Arunachal Pradesh and at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at many places over East Rajasthan Uttar Pradesh, Gangetic West Bengal, Konkan & Goa and Gujarat Region; at a few places over Haryana, Chandigarh & Delhi, Odisha, Madhya Maharashtra and Coastal Karnataka and at isolated places over Bihar, Jharkhand, Marathwada, Vidarbha, Coastal Andhra Pradesh, Kerala & Mahe and Tamilnadu, Puducherry and Karaikal. They were below normal (-1.6°C to -3.0°C) at isolated places over Sub-Himalayan West Bengal & Sikkim Rayalaseema and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.9°C was reported at Bramhapuri (Vidarbha) over the country.
- Minimum Temperature Departures as on 15-03-2021: Minimum temperatures were markedly above normal (5.1°C or more) at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at a few places over Andaman & Nicobar Islands, Saurashtra & Kutch and West Uttar Pradesh and at isolated places over West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Punjab and Sub-Himalayan West Bengal & Sikkim; at many places over Himachal Pradesh, Uttarakhand, Bihar, Assam & Meghalaya and Gujarat Region; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, Odisha, Konkan & Goa and Vidarbha and at isolated places over East Rajasthan and Kerala & Mahe. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over South Interior Karnataka and Rayalseema and at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over North Interior Karnataka and at a few places over Telangana, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 10.0°C was reported at Pantnagar (Uttarakhand) over the plains of the country.

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

- 16 March (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. Heat Wave conditions very likely at isolated places over Saurashtra & Kutch.
- 17 March (Day 2): Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand.
- 18 March (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Madhya Pradesh, Vidarbha and Chhattisgarh and with lightning at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Maharashtra and Marathwada.
- 19 March (Day 4): Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Madhya Pradesh, Vidarbha and Chhattisgarh and with lightning at isolated places over Uttarakhand, East Rajasthan, Madhya Maharashtra and Marathwada.
- 20 March (Day 5): Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Madhya Pradesh, Vidarbha and Chhattisgarh and with lightning at isolated places over Jharkhand, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Maharashtra, Marathwada, Telangana, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 16 Mar to 24 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)**

#### **Madhya Pradesh**

#### **Weather condition:**

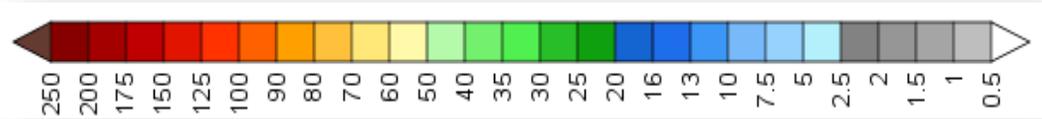
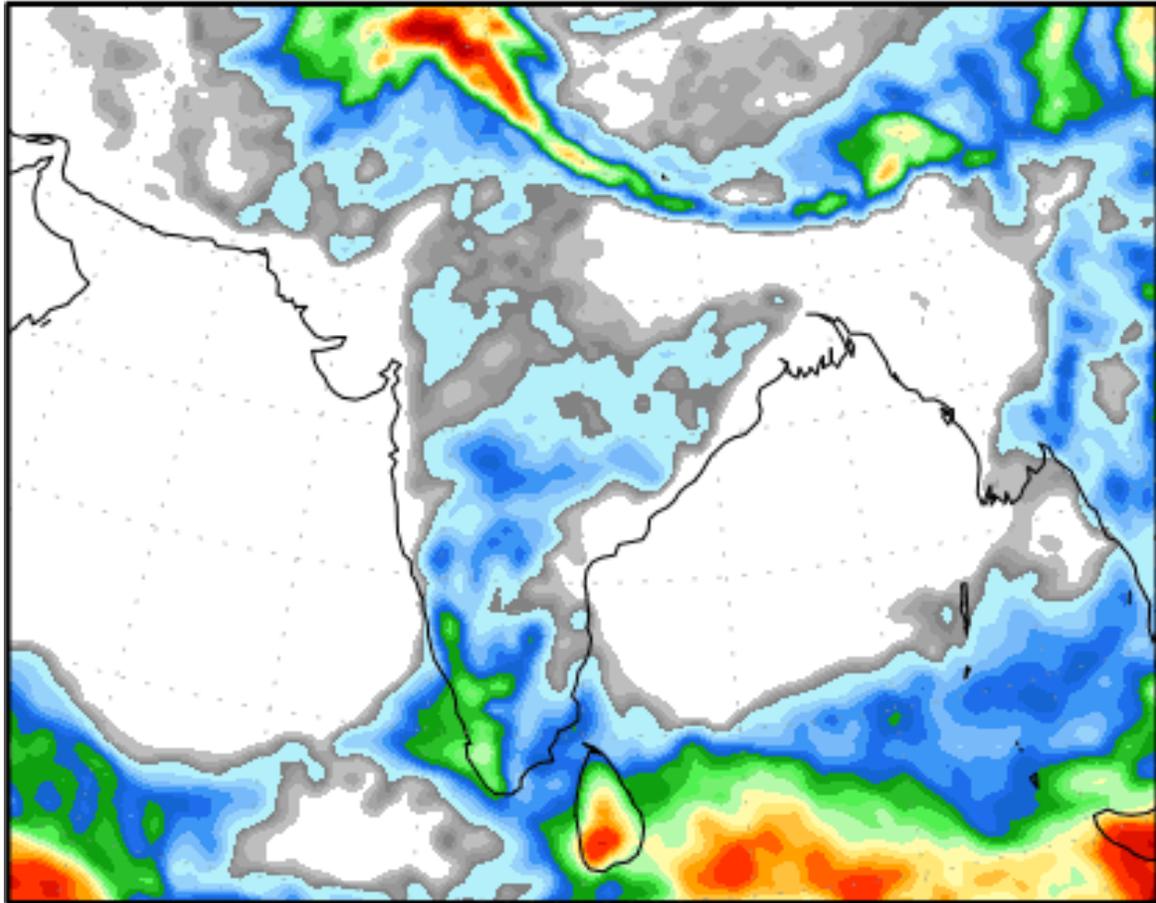
High Tmax.: 38 C at Khargone district - Low Tmin.: 11 C at Betul and Rewa district - Rain: NIL - Day Temp.: 4 C above normal over the state - Night Temp.: 2 C above normal

over the state - Due to western disturbances, temperature has jumped in the previous week causes insect pest and disease outbreak

### Contingency measure:

- General Advice General advice: On August 13, there is a possibility of light rain and hailstorm along with a strong thunderstorm in eastern Madhya Pradesh. Keep the harvested crops in a safe place.
- Wheat: In the wheat crop, according to the need for irrigation in the critical conditions. Inspect for black smut disease outbreak and remove the affected plants and destroy them.
- Chickpea: In late sowing gram, from which to get out of the branches. Observe the gram crop, if the number of gram wedi (more than two or more in the wicker per meter queue) is found to be more than the economic loss limit, then for its control, quinlface 25 EC, or triphosphus 40 E C, or polytrin C44 E.C., Dissolve and dissolve water at a rate of 2 ml per kiloliter. Put the titties (bird shelter site) in T. Firomone trap @ of 10-12 per ha.
- Mustard : Keep a constant watch on the crop in view of the possibility of Masu in late harvested crops in possible season. Breaking away from the hands of the hairless twigs and destroy it as per the requirement Imidacloprid 100 ml for its control. Make a solution of 500 to 600 liters of water and spray per hectare. In possible weather, there may be possibility of white kitten disease in mustard, so for the control of this, make a solution of 2 to 5 gm per liter of water in the mangoyebab and sprinkle it at a rate of hectare.
- Arhar : Control measure should adopted if infestation of insect pest occurred. For control leaf roller capsule borer, gram pod borer and pod fly insect seen in the field apply 2 ml chlorpyrifos or immidachlopride per lit. Water.
- Vegetables : Arrange to give irrigation manure to cabbage and cauliflower in leaf. Arrange to prepare the seedlings for early summer harvesting. If the field is not empty for sowing the seeds, prepare the seedlings in a safe place and plant the seedlings once the farm is open. Prepare the farm for all summer vegetables.
- Fruits : In the case of proper arrangement of irrigation, new fruit can be planted. In the new fruit gardens, sesame and cardigan vegetables are sown in the form of inland crop. Mango is likely to cause rash sucking insect and diarrhea. Take the treatment techniques from the nearest Krishi Vigyan Kendra.
- Animal Husbandry & Vaccinated the cattle against foot and mouth disease. Sore throats and acne vaccine in goats. Irrigate early planted Barseem crop after each cutting. Sowing of green fodder like berseem and lucern crops for the cattle feed. Make cylinders in excess of green fodder.





**Figure:2. Precipitation forecast for 16 to 24 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.*