

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

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

### **Daily Crop Weather Information as on 19 March 2020**

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

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

- Due to strengthening of anti-cyclone over the Bay of Bengal and consequent moisture feeding over East & adjoining Central India, scattered to fairly widespread light to moderate rainfall activity is very likely over Odisha, Jharkhand, and West Bengal & Sikkim during 19th-22nd March with maximum intensity on 21st March. Isolated to scattered light to moderate rainfall activity is very likely over East Madhya Pradesh, Vidarbha and Chhattisgarh during 19th-21st March with maximum intensity on 20th March.
- Thunderstorm accompanied with lightning/hail/gusty winds (speed reaching 30-40 kmph) is likely over Odisha, Jharkhand, and West Bengal & Sikkim during 19th-22nd March with maximum intensity on 19th March and over Chhattisgarh, Vidarbha and East Madhya Pradesh during 19th-20th March; Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely over Coastal Andhra Pradesh & Yanam and Telangana during 19th-21st March.
- Under the influence of a fresh Western Disturbance which is likely to affect Northwest India from the night of 20th March, light to moderate scattered rainfall/snowfall very likely over Western Himalayan Region on 21st March.
- A fresh Western Disturbance is likely to affect the Western Himalayan Region from 23rd March 2020.
- The images showing the latest satellite picture in the 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 Telangana, North Interior Karnataka and Vidarbha; at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Madhya Maharashtra, Marathawada and Chhattisgarh.

- Hailstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Madhya Maharashtra and Marathawada. Thunderstorm observed at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Odisha, Chhattisgarh, Telangana, Coastal Andhra Pradesh & Yanam, Rayalseema, Interior Karnataka and East Madhya Pradesh.
- Maximum Temperature Departures as on 18-03-2020: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Jammu, Kashmir & Ladakh; appreciably above normal (3.1°C to 5.0°C) at a few places over Saurashtra & Kutch, Himachal Pradesh and Andaman & Nicobar Islands; at isolated places over Arunachal Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Konkan & Goa, Coastal Karnataka and Lakshadweep; at a few places over West Rajasthan, South Interior Karnataka and Kerala & Mahe; at isolated places over Gujarat region, Tamil Nadu, Puducherry & Karaikal, and Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.1°C or less) at a few places over East Madhya Pradesh and Vidarbha; appreciably below normal (-3.1°C to -5.0°C) at most places over Jharkhand; at many places over Bihar and Chhattisgarh; at a few places over East Uttar Pradesh; at isolated places over West Uttar Pradesh, West Madhya Pradesh and West Bengal & Sikkim; below normal (-1.6°C to -3.0°C) at a few places over Haryana, Chandigarh & Delhi, Odisha and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.5°C was recorded at Kurnool (Rayalaseema).
- Minimum Temperature Departures as on 19-03-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at an isolated place over West Rajasthan and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Arunachal Pradesh; at a few places over Andaman & Nicobar and Lakshadweep; at isolated places over Jammu, Kashmir, Ladakh & Baltistan, South Interior Karnataka, Himachal Pradesh, Rayalseema, East Rajasthan, Assam & Meghalaya, Gujarat Region, Madhya Pradesh, Madhya Maharashtra, Telangana, West Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at most places over Gangetic West Bengal; at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Bihar; at isolated places over East Uttar Pradesh and near normal over rest parts of the country. The lowest minimum temperature of 12.9 recorded at Fatehgarh (East Uttar Pradesh) over plains of the country.

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

- 19 March (Day 1): Thunderstorm accompanied with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over south Bihar, Jharkhand, Arunachal Pradesh, SubHimalayan West Bengal & Sikkim, Odisha, East Madhya Pradesh, Vidarbha, and Chhattisgarh; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam and with lightning at isolated places over Assam & Meghalaya, North Interior Karnataka and Telangana.
- 20 March (Day 2): Thunderstorm accompanied with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Chhattisgarh; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over West Bengal & Sikkim, Odisha, Jharkhand, Assam & Meghalaya, and Coastal Andhra Pradesh & Yanam and with lightning at isolated places over East Rajasthan, Vidarbha, East Madhya Pradesh, Arunachal Pradesh, and Telangana.
- 21 March (Day 3): Thunderstorm accompanied with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jharkhand; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Odisha and Gangetic West Bengal; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over north Rajasthan, Uttar Pradesh, and Sub-Himalayan West Bengal & Sikkim and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Bihar, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, and Coastal Andhra Pradesh & Yanam.
- 22 March (Day 4): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30- 40 kmph) likely at isolated places over Odisha and West Bengal & Sikkim and with lightning at isolated places over Bihar and Jharkhand.
- 23 March (Day 5): Thunderstorm accompanied by lightning likely at isolated places over Odisha.
- The weather outlook for seven days i.e., 19 to 27 March 2020 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)

### Haryana

#### Weather condition:

Mainly variable weather was observed. About 11.6 mm rainfall was recorded during this period. The maximum and minimum temperatures were below normal this week with exceptions. The bright sunshine hours were ranged between 4.0 to 8.0 h. The evaporation was recorded at 20.7 mm. The northerly wind was mainly dominant between the range of 2.1 to 7.1 km/hr.

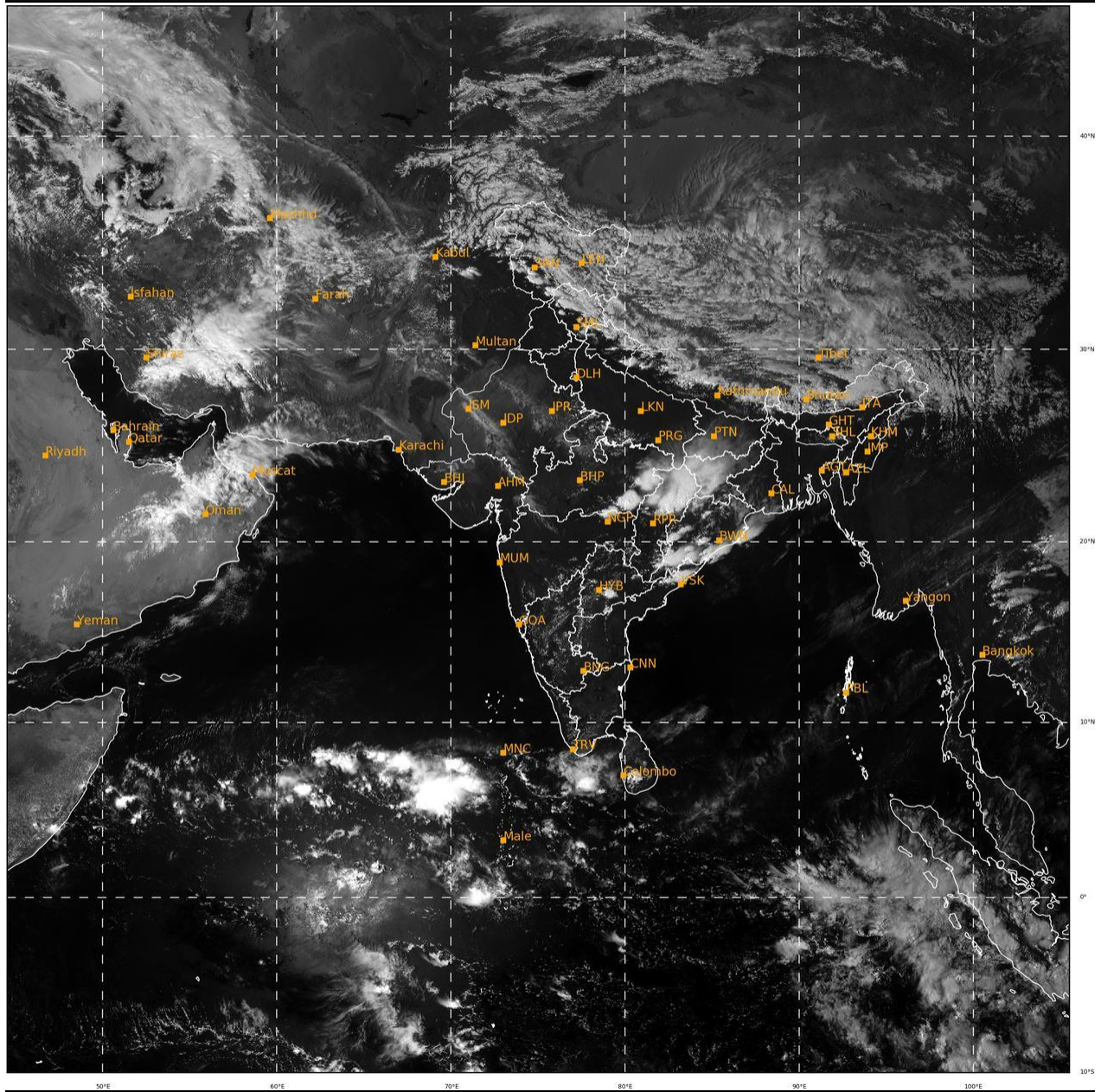
#### Contingency measure:

- General advisory: Given dry and variable weather, farmers are advised to apply the chemical spray in rabi crops. There may be chances of high surface winds during the period. Wheat Due to the chances of surface winds, Farmers are advised to apply need-based irrigation and chemical spray. Keep vigil for yellow rust in wheat, farmers are advised the regular monitoring is advisable if symptom observed then application of 200 ml Tilt 25% EC (Propiconazole 25% EC) in 200-liter water per acre spray.
- Mustard/Raya Farmers are advised to keep the weather in mind while applying need-based irrigation and chemical spray in the mustard crop. Harvest the early sown mustard crop.
- Fodder/Barseem While the harvesting of berseem for fodder to feed livestock.
- Vegetables/Fruits Farmers are advised to withhold irrigation in the existing vegetable. Keep monitoring of timely sown onion crop against the attack of thrips during the period Sugarcane Farmers are advised to keep on vigilance for insect/pests in sugarcane crop. With-hold sowing of spring sugarcane till 21th and 22th due to light rainfall.
- Moong Farmers are advised to prepare the land and sowing of Moong with university recommended varieties i.e. Muskan, Sattya, Basanti, MH 421, MH 318.
- Livestock management Protects animals from bad weather conditions and provides clean and dry bedding. Provide 50 grams iodized salt and 50 to 100 grams mineral mixture daily along with animal feed/fodder, green fodder to keep them healthy.



SAT : INSAT-3D IMG  
Visible Count 0.65 um  
L1C Mercator

19-03-2020/(0900 to 0926) GMT  
19-03-2020/(1430 to 1456) IST

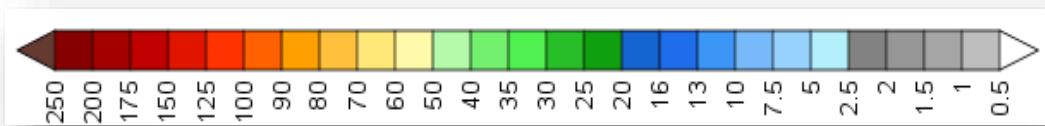
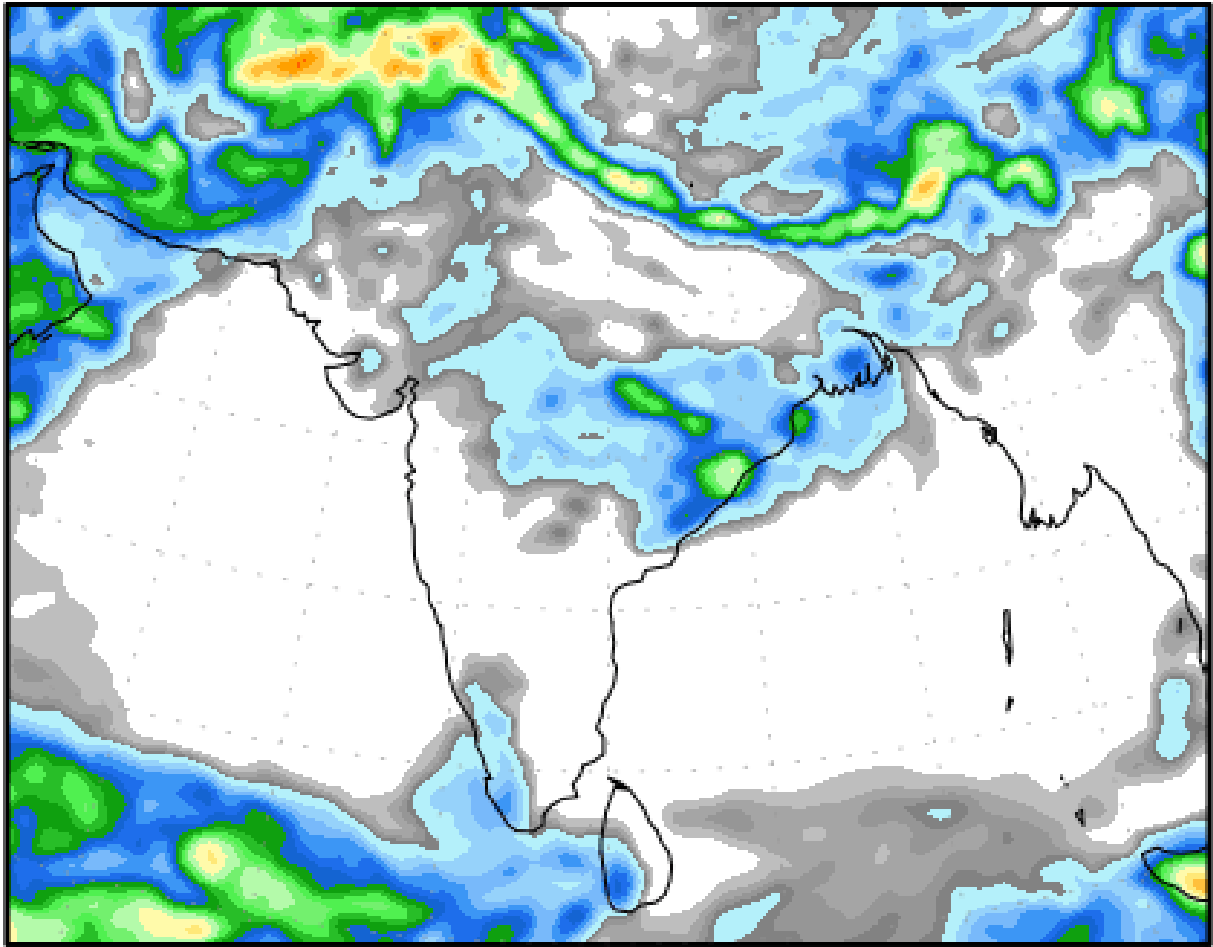


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 19 March 2020 at 1456 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 19 to 27 March 2020 (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.*