

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

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

### **Daily Crop Weather Information as on 21 February 2020**

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

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

- Under the influence of Western Disturbance as a cyclonic circulation over Himachal Pradesh & neighborhood at middle & upper tropospheric level and induced cyclonic circulation over south Haryana & neighborhood in lower tropospheric levels, light isolated rainfall/snowfall very likely to occur over Jammu, Kashmir & Ladakh and Himachal Pradesh on 21st & 22nd; light isolated to scattered rain/thundershower very likely over Punjab, Haryana, Chandigarh & Delhi during same period and dry weather thereafter.
- Due to confluence between Western Disturbance and easterlies from the Bay of Bengal, light/ moderate scattered to fairly widespread rainfall/snowfall very likely over Uttarakhand; light isolated to scattered rain/thundershower over West Uttar Pradesh during next 3 days and over East Uttar Pradesh during next 5 days. Due to very likely formation of anticyclone over Bay of Bengal from 23rd February, easterly current from Bay of Bengal very likely to strengthen over East India and cause light/moderate scattered to fairly widespread rain/thundershower over East India during 23rd to 25th and over northeast India on 24th & 25th with possibility of peak intensity on 25th February 2020 with likely heavy rainfall over Odisha on 25th.
- Thunderstorm accompanied with lightning & hail very likely over Uttarakhand and northwest Uttar Pradesh; thunderstorm with lightning very likely over Haryana, Chandigarh, Delhi, and north Madhya Pradesh during next 24 hours; over East Uttar Pradesh during next 24 hours and on 23rd & 24th Feb; over East India during 23rd to 25th February 2020.
- Strong wind speed reaching 30-40 kmph likely to prevail over parts of northwest India during the next 24 hours.
- 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 many places over Uttarakhand, Haryana, Chandigarh & Delhi,

Jammu & Kashmir, and Punjab; at a few places over Uttar Pradesh and Himachal Pradesh and at isolated places over Rajasthan and West Madhya Pradesh.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and East Uttar Pradesh.
- Maximum Temperature Departures as on 20-02-2020: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan; at a few places over Uttarakhand, West Rajasthan and West Madhya Pradesh; at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places Punjab; at many places over Haryana, Chandigarh & Delhi and Konkan & Goa; at a few places over Saurashtra & Kutch, Vidarbha, Madhya Maharashtra, Jharkhand & Kerala. They were below normal (-1.6°C to -3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at isolated places over East Uttar Pradesh, Telangana and Coastal Andhra Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.0°C was recorded at Khargone (West Madhya Pradesh).
- Minimum Temperature Departures as on 21-02-2020: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over East Madhya Pradesh; at isolated places over Punjab, West Madhya Pradesh and Bihar; appreciably above normal (3.1°C to 5.0°C) at most places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Andaman & Nicobar Islands; at many places over Himachal Pradesh and Madhya Maharashtra; at isolated places over Gujarat region and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, East Rajasthan, Vidarbha, and Marathawada; at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Saurashtra & Kutch and Konkan & Goa and at isolated places over West Rajasthan. They are below normal (-1.6°C to -3.0°C) at most places over Rayalaseema; at a few places over Telangana and at isolated places over Odisha and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 8.8°C recorded at Fatehgarh (East Uttar Pradesh) over the plains of the country.

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

- 21 February (Day 1): Thundersquall (speed reaching 50-60 kmph) accompanied by lightning & hail very likely at isolated places over Uttarakhand. Thunderstorm accompanied with hail, lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over West Uttar Pradesh; with hail, lightning & gusty

wind (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh and Haryana, Chandigarh & Delhi and with lightning at isolated places over Punjab, Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal. A strong wind (speed reaching 45-55 kmph) very likely to prevail over the Gulf of Mannar and the Comorin area. Fishermen are advised not to venture in the above areas.

- 22 February (Day 2): Thunderstorm accompanied by lightning very likely at isolated places over Bihar, Jharkhand and Tamil Nadu, Puducherry & Karaikal.
- A strong wind (speed reaching 45-55 kmph) very likely to prevail over the Gulf of Mannar and the Comorin area. Fishermen are advised not to venture in the above areas.
- 23 February (Day 3): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over East Uttar Pradesh and with lightning at isolated places over Uttarakhand, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, and Gangetic West Bengal.
- 24 February (Day 4): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over East Uttar Pradesh and with lightning at isolated places over Uttarakhand, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, and Assam & Meghalaya.
- 25 February (Day 5): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Assam & Meghalaya and with lightning at isolated places over Chhattisgarh, West Bengal & Sikkim, Odisha, Arunachal Pradesh, and Nagaland, Manipur, Mizoram & Tripura.
- The weather outlook for seven days i.e., 21 to 29 Feb 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)**

### **Uttar Pradesh**

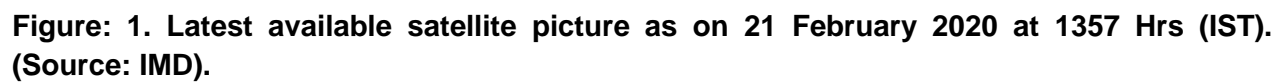
#### **Weather condition:**

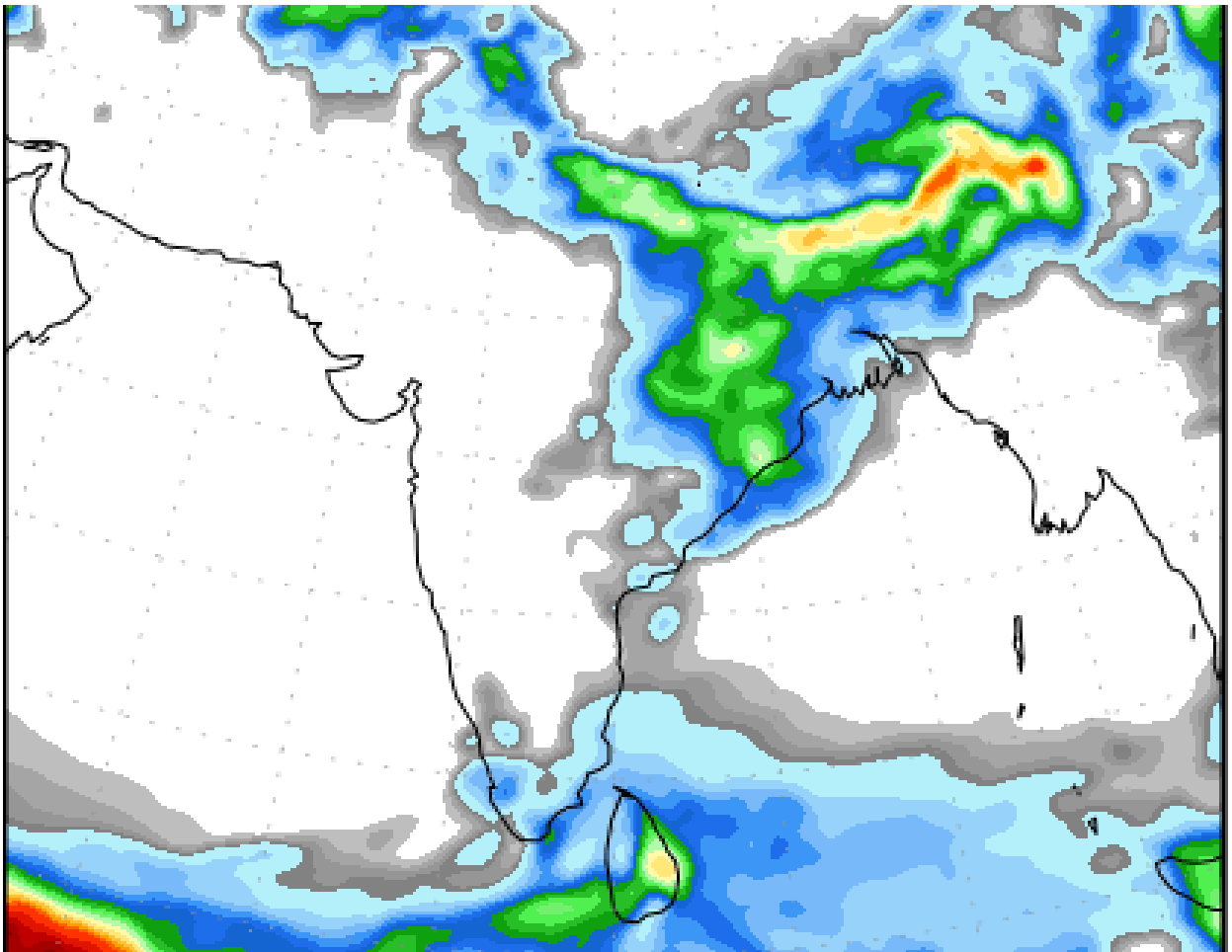
Weather will be mainly dry and cloudy weather will be appearing during this week. The maximum and minimum temperature may be 2-30C above than its normal, whereas wind velocity range may be expected 7.3 to 16.8 kmph prevailing NW/ SE which maybe 4 to 5 kmph above the normal during the coming days.

### Contingency measure:

- Wheat: Irrigation should be done at the PI and Anthesis stage. Topdressing of urea at optimum moisture during tillering and PI stages.
- Barley: Irrigation should be done at the PI and flowering stage. Topdressing of urea at optimum moisture at PI stages.
- Rabi maize: Top dressing of urea at optimum moisture during knee height.
- Pigeon pea: Watchful insect and pest due to cloudy weather and high temperature during this week.
- Pea: Watchful insect and pest due to cloudy weather and high temperature during this week.
- Gram: Watchful insect and pest due to cloudy weather and high temperature during this week.
- Lentil: Watchful insect and pest due to cloudy weather and high temperature during this week.
- Mustard: Watchful insect and pest due to cloudy weather and high temperature during this week.
- Linseed: Watchful insect and pest due to cloudy weather and high temperature during this week.
- Brinjal/Chilies: Pick up mature fruits in standing crop, irrigation should be done. Watchful insect and pest due to cloudy weather and high temperature.
- Leafy Vegetable: Cutting, marketing, irrigation should be done.
- Potato: Precaution should be taken up from late blight, spray 2.0 g Mancozeb or 1.5 to 2.5 g Metalaxil with 1.0 lt. water solution as per the present weather conditions. Dig out early sown crop.
- Berseem: Third cutting should be taken up and top dressing of 20 kg urea at optimum moisture.
- Animal: Balanced diet should be given for milch animals. To protect from the cold of cow/buffalo calf and used paddy straw or ash as litter in animal houses. The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.







**Figure:2. Precipitation forecast for 21 to 29 Feb 2020 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many factors that are dynamic. 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.*