

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

**Daily Crop Weather Information as on 20 April 2021**

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

**Significant Weather Features (IMD)**

- A Western Disturbance as a cyclonic circulation lies over Jammu & Kashmir and neighbourhood between 2.1 km & 3.6 km above mean sea level. Another Western Disturbance as a cyclonic circulation lies over northwest Afghanistan & neighbourhood at 3.1 km above mean sea level with a trough aloft in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Longitude 64°E to the north of latitude 23°N. An induced cyclonic circulation lies over southeast Rajasthan & neighbourhood in lower tropospheric levels. Under their influence:
  - (i) scattered to widespread rainfall/snowfall/thunderstorm very likely over Western Himalayan Region during 20th-23rd April and isolated to scattered rainfall/thunderstorm very likely over adjoining plains of Northwest India during the same period.
  - (ii) Isolated heavy rainfall very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh on 20th & 21st April and Uttarakhand on 21st April.
  - (iii) Isolated hailstorm very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 20th & 21st and over Rajasthan on 20th April. Isolated Dust Storm also likely over Rajasthan on 20th April.
- Under the influence of a trough in westerlies roughly along Longitude 88°E to the north of latitude 26°N supported by moisture feed from Bay of Bengal in lower tropospheric levels; scattered to fairly widespread rainfall/thunderstorm very likely over Northeast India during next 3 days.
- A North-South trough runs from southwest Madhya Pradesh to south Tamil Nadu across Vidarbha, Telangana and Rayalaseema in lower tropospheric levels. Under its influence, scattered to fairly widespread rainfall/thunderstorm Kerala and isolated to scattered rainfall/thunderstorm over Tamil Nadu and adjoining Karnataka very likely during next 4-5 days. Isolated heavy rainfall also very likely over Tamil Nadu, Kerala & Mahe and South Interior Karnataka on 20th April.

- Isolated heat wave conditions very likely over Gangetic West Bengal during next 2 days.
- 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 hrs IST of today): at many places over Andaman & Nicobar Islands, Arunachal Pradesh and Kerala & Mahe; at a few places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and at isolated places over Odisha, Punjab, Haryana, West Rajasthan, Saurashtra & Kutch, Chhattisgarh, Telangana, Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- Very Heavy Rainfall recorded at isolated places over Kerala & Mahe and Heavy Rainfall at isolated places over Chhattisgarh and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hrs IST of today): at isolated places over Chhattisgarh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 19-04-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Gangetic West Bengal; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Jharkhand and Konkan & Goa; at a few places over Gujarat State, Odisha, Telangana, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal; at isolated places over Madhya Pradesh and Vidarbha. They were markedly below normal (-5.1°C or less) at a few places over Arunachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at isolated places over Himachal Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.0°C was reported at Bramhapuri (Vidarbha).
- Minimum Temperature Departures as on 20-04-2021: Minimum temperatures are 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 isolated places over West Madhya Pradesh and Gujarat State; above normal (1.6°C to 3.0°C) at many places over East Rajasthan, Telangana, Coastal Andhra Pradesh & Yanam and Rayalaseema; at a few places over Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep; at isolated places over East Madhya Pradesh, Gangetic West

Bengal & Sikkim, Odisha, Vidarbha and Konkan & Goa. They are below normal (-1.6°C to -3.0°C) at a few places over Himachal Pradesh and Kerala & Mahe; at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar and Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 11.4°C is reported at Pantnagar (Uttarakhand) over the plains of the country.

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

- 20 April (Day 1): Thunderstorm with lightning, hail & gusty wind (speed 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Lakshadweep and Kerala & Mahe; with lightning at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State and Tamilnadu, Puducherry & Karaikal. Heavy rainfall very likely at isolated places over Jammu & Kashmir, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Duststorm/Thunderstorm with hail & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heat Wave conditions very likely in isolated pockets over Gangetic West Bengal. Squally weather (wind speed reaching 40-50 kmph) very likely over Southeast Arabian Sea off Kerala coast.
- 21 April (Day 2): Thunderstorm with lightning, hail & gusty wind (speed 30-40 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Jharkhand, Gangetic West Bengal, Odisha, Telangana and Kerala & Mahe; with lightning at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and Tamilnadu, Puducherry & Karaikal. Heavy rainfall very likely at isolated places over Jammu & Kashmir, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand. Heat Wave conditions very likely in isolated pockets over Gangetic West Bengal.
- 22 April (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Assam & Meghalaya, Nagaland,

Manipur, Mizoram & Tripura; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Jharkhand, West Bengal & Sikkim, Odisha and Kerala & Mahe and with lightning at isolated places over Vidarbha, Chhattisgarh, Bihar, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal.

- 23 April (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Himachal Pradesh, Uttarakhand and Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Telangana and Tamilnadu, Puducherry & Karaikal.
- 24 April (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Telangana and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 20 Apr to 28 April 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)**

### **West Bengal**

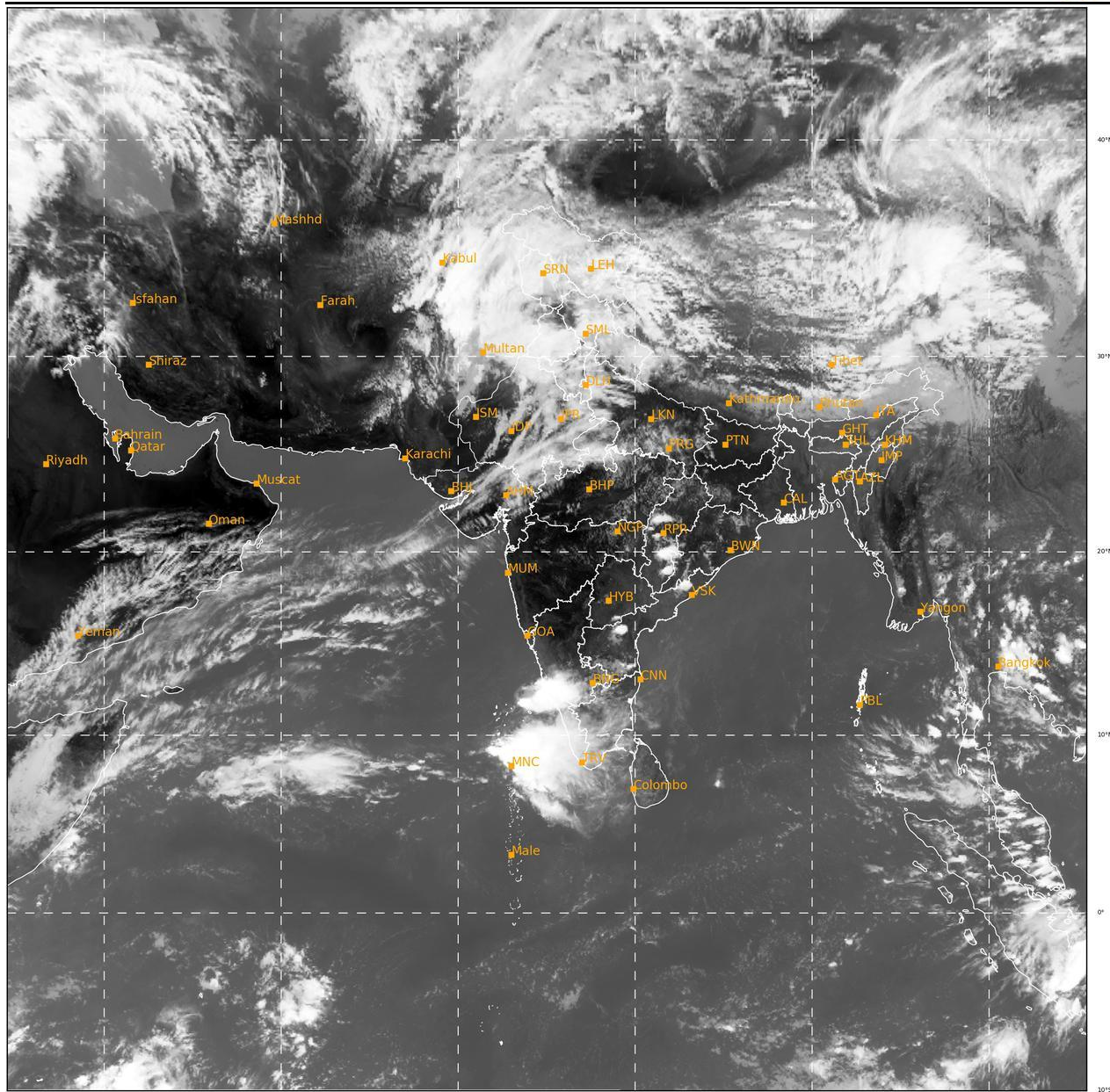
#### **Weather condition:**

Weather conditions during the 15th week at Mohanpur, West Bengal: Maximum temperature: 34.5 to 40.0 0C, minimum temperature: 25.0 to 26.0 0C, bright sun shine hours: 1.5 to 9.9 hours, Morning-time relative Humidity: 79 to 92 %, after noon-time R.H: 34 to 56%, weekly total pan evaporation: 34.1 mm, total weekly rainfall:0.0 mm and average daily wind speed is around 2.73 km/h.

#### **Contingency measure:**

- Boro Rice- If 50 % panicles have emerged apply remaining doses of nitrogenous fertilizer as bas top dressing. If there is deficiency of zinc apply Zinc @ 3.5 kg/ bigha. Sheath blight one of the main problem in tillering stage it also we can seen in the field later on .Stem borer attack started the boro rice field . For control of sheath blight we can apply propiconazole 1ml/l, or validamycin 2gm/1 of water.For control of yellow stem borer we can apply chlorantraniliprole( fatera) or cypermethrin 2ml/1 of water. For control of Bacterial blight apply Agrimycin 5 gram/18 litre of water.;

- Jute : Nitrogen needs to be applied in 2-3 split doses. However, phosphorus and potash should be applied as basal. Farmer can also refer Soil Health Card for actual NPK application as per their soil test. Under rainfed condition (no irrigation), spray Butachlor 50EC @ 4ml/L water after 48 hrs of sowing to control weeds. Under irrigated condition, spray Pretilachlor 50EC @ 3 ml/L water after 48 hrs of sowing with irrigation to control weeds.;
- Sesame: Apply light irrigation at 12-15 days interval depending upon soil moisture status. One hand weeding is recommended at present stage for controlling weeds and maintaining optimum plant density keeping 10 cm plant spacing. Apply half the remaining dose of Nitrogen as topdressing.;
- Mango: To prevent fruit drop apply planofix @ 0.5ml/litre of water. For control of mango fruit borer spray Neem oil 3ml + chloripyriphos 1 ml per litre of water along with stickers at marble stage of the fruit. The sprayings should be preferably carried out during evening hours. To control bacterial canker, three sprays of streptomycin (100 ppm) or Agrimycin-100 (100 ppm) after first visual symptom at 10-days intervals is recommended.

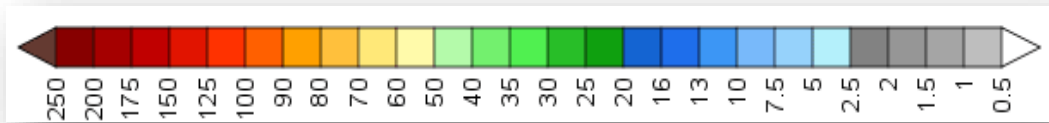
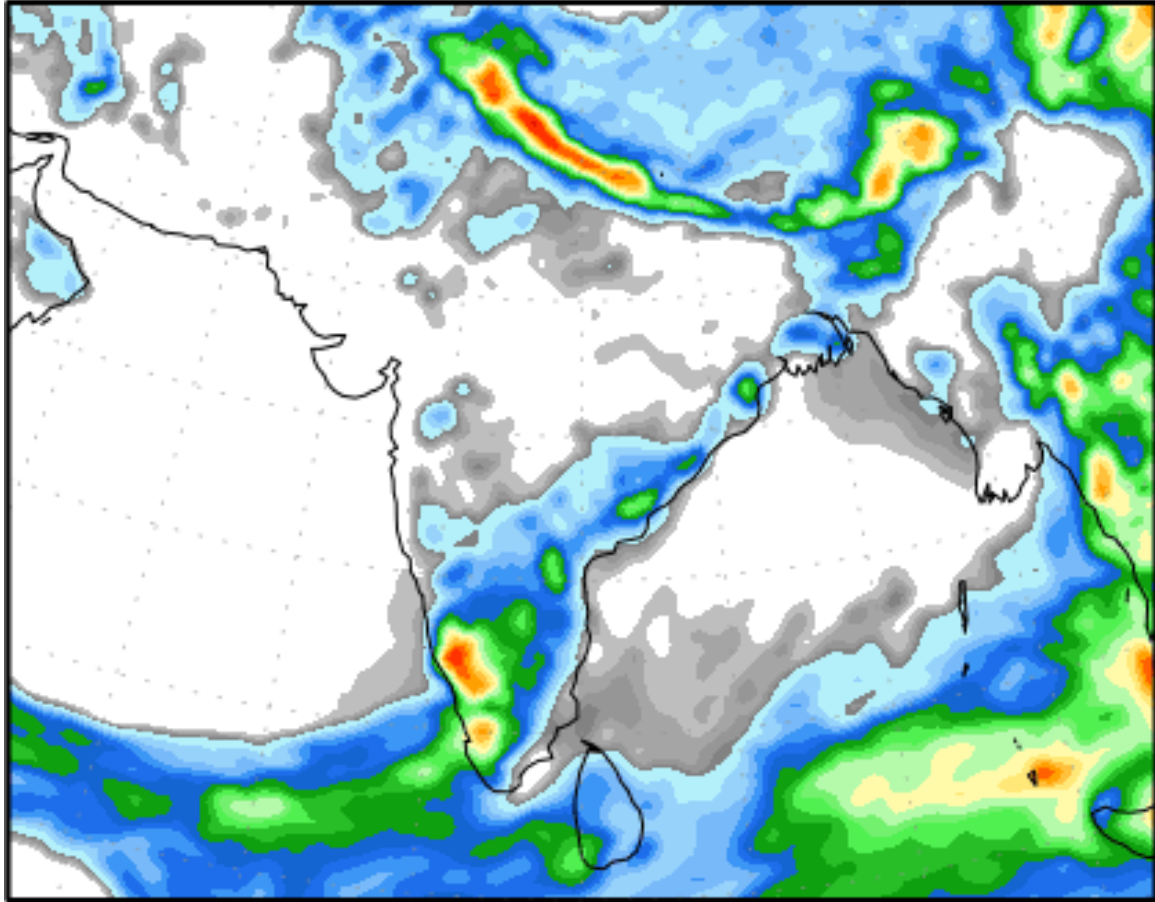


251

928

IMD,DELHI

Figure: 1. Latest available satellite picture as on 20 April 2021 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 20 to 28 Apr 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.*