

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

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

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

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

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

- The Western Disturbance lies as a cyclonic circulation over north Pakistan & neighbourhood between 3.1 & 5.8 km above mean sea level with the induced cyclonic circulation over northwest Rajasthan & neighbourhood in lower levels. Under the influence of these systems:
  - i) Fairly widespread to widespread rainfall with thunderstorm, lightning & gusty winds over Western Himalayan Region on 17th April. Isolated hailstorm likely over Uttarakhand on 17th April. Isolated heavy rainfall also very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad on 17th April.
  - ii) Isolated light rainfall with thunderstorm, lightning & gusty winds over adjoining plains of Northwest India on 17th April. Duststorm at isolated places likely over East Rajasthan on 17th April.
- Under the influence of moisture feed from Bay of Bengal in lower tropospheric levels; fairly widespread to widespread rainfall activity very likely over Northeast India during next 3 days. Thunderstorm, lightning & gusty winds very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 17th-20th April with possibility of isolated heavy falls over Arunachal Pradesh and Assam & Meghalaya during 17th-20th April.
- Under the influence of a fresh Western Disturbance, fairly widespread to widespread rainfall/snowfall likely over Western Himalayan Region during 20th-22nd April, with maximum activity on 21st April. Isolated light rainfall accompanied with thunderstorm & lightning also likely over northern parts of Punjab, Haryana and West Uttar Pradesh on 21st April.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hrs IST of yesterday): at many places over Arunachal Pradesh and Andaman & Nicobar Islands; at a few places over Sub-Himalayan west Bengal & Sikkim, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Kerala & Mahe; at isolated

places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Rajasthan, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal.

- Thunderstorm observed (from 0830 hrs IST of yesterday to 0530 hrs IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Rajasthan, Punjab, Uttarakhand, Himachal Pradesh, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram & Tripura, Bihar, Assam & Meghalaya, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Chattisgarh, Madhya Maharashtra, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 16-04-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh and Haryana, Chandigarh & Delhi; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, and West Uttar Pradesh; at a few places over Assam & Meghalaya and at isolated places over Gangetic West Bengal, Odisha, West Madhya Pradesh, Saurashtra & Kutch and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less ) at Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; appreciably below normal (-3.1°C to -5.0°C) at most places over Andaman & Nicobar Islands; at many places over Arunachal Pradesh and west Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Telangana, Chattisgarh and North Interior Karnataka; at a few places over Bihar, Vidarbha, Madhya Maharashtra and Rayalseema and at isolated places east Madhya Pradesh and East Madhya Pradesh and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.8°C was reported at Banda (East Uttar Pradesh).
- Minimum Temperature Departures as on 16-04-2021: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand; at a few places over West Rajasthan; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, West Uttar Pradesh and Gangetic West Bengal; at a few places over Himachal Pradesh, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, East Rajasthan and Saurashtra & Kutch. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Vidarbha; at a few places over Telangana and below normal (-1.6°C to -3.0°C) at many places over East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal; at a few places over Haryana, Chandigarh & Delhi, West Madhya Pradesh and Marathwada and at isolated places Madhya Maharashtra, Odisha and Kerala & Mahe and near normal over rest parts of the

country. Yesterday, the lowest minimum temperature of 17.4°C was reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

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

- 17 April (Day 1): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Uttarakhand; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Assam & Meghalaya; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Punjab, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and with lightning at isolated places over Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Lakshadweep. Heavy rainfall very likely at isolated places over Jammu & Kashmir, Gilgit-Baltistan & Muzaffarabad, Arunachal Pradesh and Assam & Meghalaya. Duststorm/Thunderstorm with gusty winds (speed reaching 40-50 kmph) likely at isolated places over East Rajasthan.
- 18 April (Day 2): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jharkhand, West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Arunachal Pradesh, Andaman & Nicobar Islands, Kerala & Mahe and Lakshadweep. Heavy rainfall very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- 19 April (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over SubHimalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Arunachal Pradesh, Kerala & Mahe and Lakshadweep. Heavy rainfall likely at isolated places over Arunachal Pradesh.
- 20 April (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Himachal Pradesh and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Odisha, Assam & Meghalaya, Kerala & Mahe and Lakshadweep.
- 21 April (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Himachal Pradesh and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Odisha, Assam & Meghalaya, Kerala & Mahe, Lakshadweep, Punjab, Haryana,

Chandigarh & Delhi, Rajasthan and West Uttar Pradesh. Heavy rainfall likely at isolated places over Jammu & Kashmir, Gilgit-Baltistan & Muzaffarabad.

- The weather outlook for seven days i.e., 17 Apr to 25 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)**

### **Western U.P**

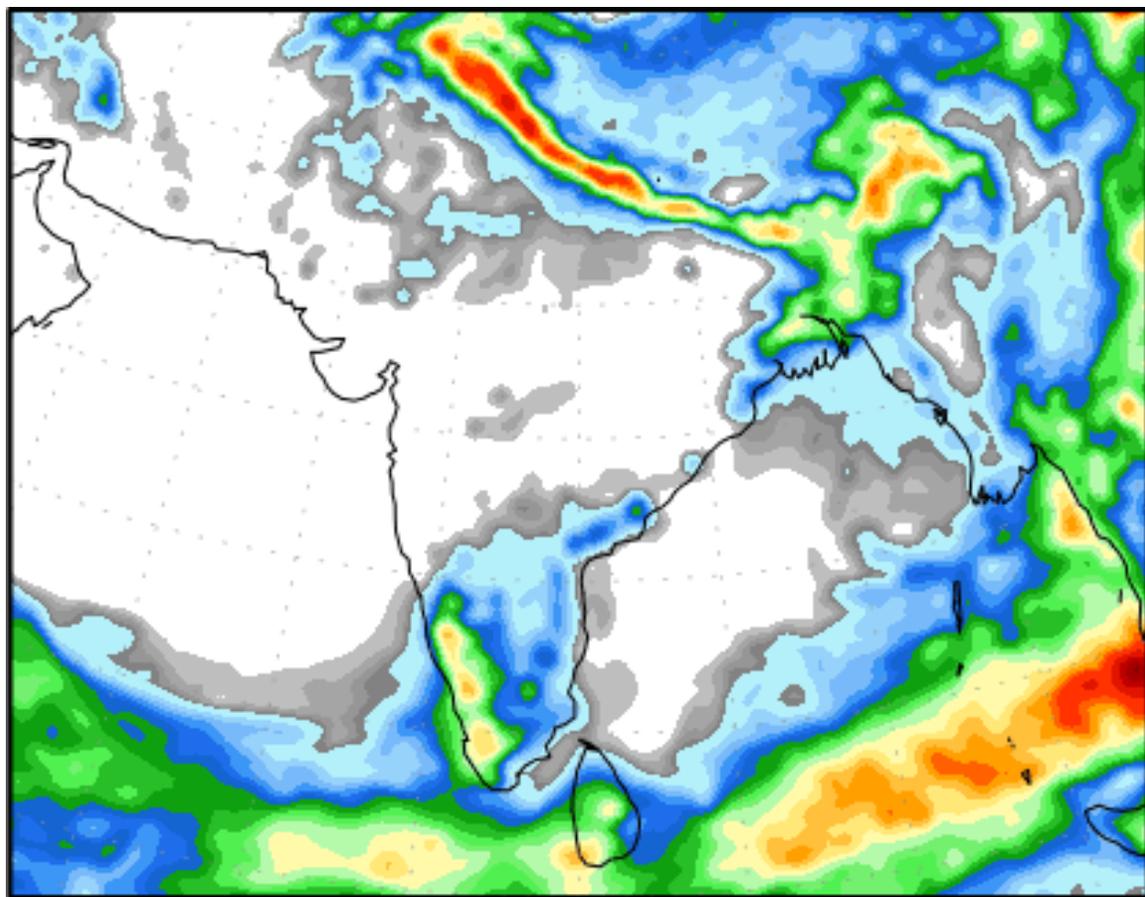
#### **Weather condition:**

Cloudy and hot weather appearing from 15-18 April but no rainfall during this week. Maximum and minimum temperature may be expected 2.0-3.0 0C higher than its normal. North-Westerly winds may be expected and prevailing 11.9 to 15.7kmph, which is 5-6 kmph higher than normal during this week as per forecast.

#### **Contingency measure:**

- Wheat : Cloudy and hot weather appearing during this week farmers are advised to harvest their crop and tying bundles immediate and threshing should be done.
- Barley : Cloudy and hot weather appearing during this week farmers are advised to Threshing and winnowing should be completed as earlier.
- Rabi maize: Light irrigation should be given at milking stage. Pigeon pea: Harvest mature crop and threshing should be done.
- Zaid Urd :Cloudy but no rainfall appearing during this week farmers are advised to Light irrigation should be applied after 25 -30 days after sowing and weeding should be done at optimum moisture by hand hoe. Weeds should be used as mulch.
- Zaid Moong : Sowing of short duration variety during this week. Weeding should be done after 20 days of sowing. Light irrigation should be applied after 25 to 30 days of sowing.
- Brinjal / Chilies/ Tomato :Pick up mature fruits in standing crop. Light irrigation should be given at evening. Watchful about insect and pest.
- Leafy Vegetable :Cutting , marketing , light irrigation should be given at evening.
- Barseem : Light moisture should be maintained .
- Animal: Animal should be put in tree shed during day time. Balanced diet should be given for milch animal. Fresh water used for dirking 4 or 5 time and bathing should be taken up at morning and evening. 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 17 to 25 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.*