

# All India Coordinated Research Project on Agrometeorology

## CRIDA, Santoshnagar, Hyderabad – 500 059

### Daily Crop Weather Information as on 06 April 2021

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

#### Significant Weather Features (IMD)

- A fresh Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 3.1 km above mean sea level runs roughly along longitude 65°E to the north of latitude 22°N and an induced cyclonic circulation lies over Punjab & neighbourhood in lower tropospheric levels. Under the influence of these systems:
  - i) Fairly widespread to widespread rainfall/snowfall with thunderstorm, lightning/gusty winds (speed reaching 30-40 kmph) very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarkhand during next 2 days and isolated rainfall/snowfall thereafter. Scattered to Fairly widespread rainfall with thunderstorm, lightning/gusty winds (speed reaching 30-40 kmph) over Punjab and north Haryana, Chandigarh and isolated rainfall over northwest Uttar Pradesh and Rajasthan during next 24 hours.
  - ii) Isolated heavy rainfall/snowfall over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh on today, the 06th April, 2021.
  - iii) Isolated hailstorm also very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh on 06th April and over Uttarakhand on 06th & 07th April.
  - iv) Duststorm/Thunderstorm & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan and Thunderstorm with gusty winds (speed reaching 30-40 kmph) at isolated places over East Rajasthan during next 24 hours.
- Heat wave conditions very likely in isolated pockets over southwest Uttar Pradesh and Rajasthan during next 24 hours and over Madhya Pradesh and east Vidarbha during next 2 days.
- A trough in westerlies runs roughly along longitude 85°E to the north of latitude 25°N at 3.1 km above mean sea level. It is likely to move eastwards during next 48 hours. This system supported by moisture incursion from Bay of Bengal in lower tropospheric levels is likely to cause fairly widespread to widespread rainfall with thunderstorm, lightning/gusty winds (speed reaching 30-40 kmph) over

Arunachal Pradesh and Assam & Meghalaya during 09th -10th April. Isolated heavy rainfall also likely over Arunachal Pradesh on 10th April, 2021.

- 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 Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffrabad and at isolated places over Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Uttarakhand, Himachal Pradesh, Punjab, Coastal Andhra Pradesh, Telangana, Rayalseema, Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today) in isolated pockets over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffrabad.
- Hailstorm observed in isolated pockets over Gangetic west Bengal (Kolkata) and Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffrabad (Kupwara) .
- Heat Wave Conditions were observed in some pockets over Rajasthan and in isolated pockets over northwest Madhya Pradesh and east Vidarbha.
- Maximum Temperature Departures as on 05-04-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Utrkhand and Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan; at many places over Punjab, and Assam & Meghalaya; at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Madhya Pradesh, at many places over East Uttar Pradesh, Jharkhand, Vidarbha, Chhattisgarh and Madhya Maharashtra; at a few places over Sub-Himalayan West Bengal & Sikkim, Odisha, Gujarat Region, Coastal Karnataka and Coastal Andhra Pradesh & Yanam. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Himachal Pradesh and below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands and at isolated places over Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.5°C was reported at Brahma Puri (Vidarbha) over the country.
- Minimum Temperature Departures as on 06-04-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Utrkhand; at many places over Punjab; at a few places over Himachal Pradesh and Bihar; above normal (1.6°C to 3.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and West Rajasthan; at many places over

Haryana, Chandigarh & Delhi East Rajasthan, West Uttar Pradesh, West Madhya Pradesh and Coastal Karnataka; J at a few places over East Uttar Pradesh, Gujarat state, Madhya Maharashtra and at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. They are below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at most places over Nagaland, Manipur, Mizoram & Tripura; at a few places over East Madhya Pradesh, Vidarbha and Assam & Meghalaya and at isolated places over Telangana and Gangetic West Bengal and near normal over rest parts of the country. Today, the lowest minimum temperature of  $15.9^{\circ}\text{C}$  reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

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

- 06 April (Day 1): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand and Punjab; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, north Haryana, Chandigarh, northwest Uttar Pradesh, East Rajasthan and Kerala & Mahe and with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya, Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep, Telangana and Coastal Andhra Pradesh & Yanam. Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan. Heat Wave Conditions very likely in isolated pockets over Madhya Pradesh, southwest Uttar Pradesh, Rajasthan and east Vidarbha. Heavy rainfall/snowfall very likely in isolated pockets over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh.
- 07 April (Day 2): Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Bengal & Sikkim, Assam & Meghalaya and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Arunachal Pradesh. Heat Wave Conditions very likely in isolated pockets over Madhya Pradesh and east Vidarbha.
- 08 April (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Gangetic West Bengal; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe and with lightning over Arunachal Pradesh, Nagaland, Manipur, Mizoram &

Tripura, Odisha, Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Lakshadweep.

- 09 April (Day 4): Thunderstorm with lightning, hail & squall (speed reaching 50-60 kmph) likely at isolated places over Gangetic West Bengal; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Odisha; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh Vidarbha, Chhattisgarh, Jharkhand, Bihar, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning over Nagaland, Manipur, Mizoram & Tripura, Goa, Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heat Wave Conditions likely in isolated pockets over Saurashtra & Kutch.
- 10 April (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Assam & Meghalaya; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning over Nagaland, Manipur, Mizoram & Tripura, Goa, Gangetic West Bengal, south Madhya Maharashtra, Marathwada, Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heavy Rainfall likely in isolated pockets over Arunachal Pradesh. Heat Wave Conditions likely in isolated pockets over Saurashtra & Kutch
- The weather outlook for seven days i.e., 06 Apr to 14 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)**

### **Haryana**

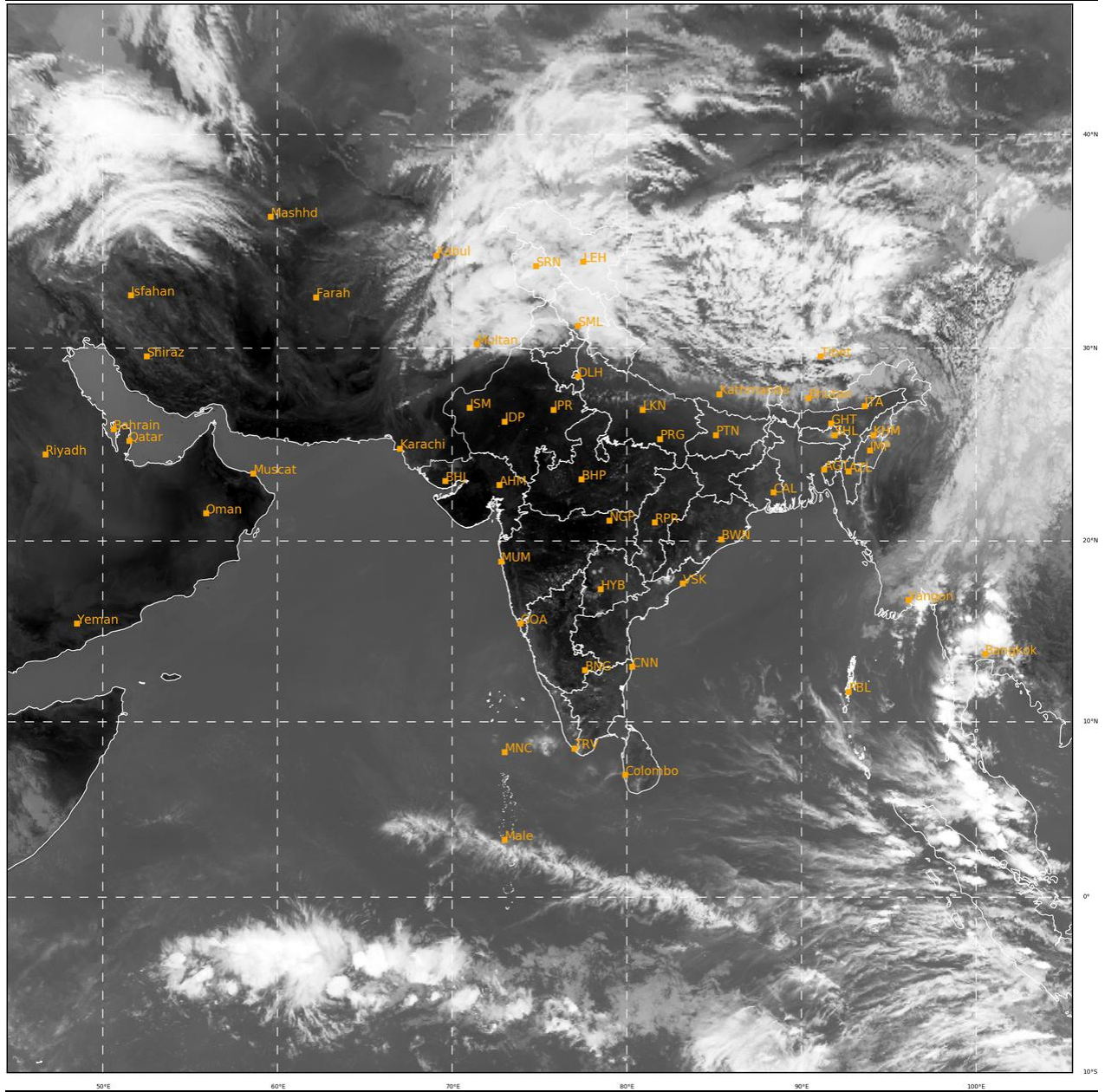
#### **Weather condition:**

Maximum temperature was observed above the normal except 26th march and Minimum Temperature was observed above the normal except 26th March and 1st April during this week. The morning and evening relative humidity during the week varied between 59-93 and 14-38%, respectively. The sunshine hours during the week ranged between 5.4-9.3 hrs/day. The evaporation rate during the week ranged between 3.8-8.1 mm/day. Daily average wind speed varied from 2.9-8.3 kmph.

### Contingency measure:

- Weather Forecast: Weather likely to be variable. Due to partial WD, chances of light rainfall with thunderstorm/ lightening on 31st March at isolated places. In remaining days, weather will be dry with partly cloudy condition.
- General advised: In view of variable weather, farmers are advised to apply irrigation and chemical spray as per crop need in rabi crops.
- Wheat: Irrigate the crop as per its requirement. Keep monitoring for rust and smut.
- Mustard/Raya: Keep variable weather in mind during harvesting and threshing of mustard/other oilseed crops.
- Fodder/Barseem: Apply irrigation accordance of crop need.
- Vegetables/Fruits: Apply need based irrigation in vegetable crops. Keep vigil for insect-pest and diseases and follow proper weed control measures.
- Fishery: Maintain good amount of water in pond to save fishes from variable weather.
- Live stock management: Protect the animals from variable weather conditions and provide proper ventilation 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.



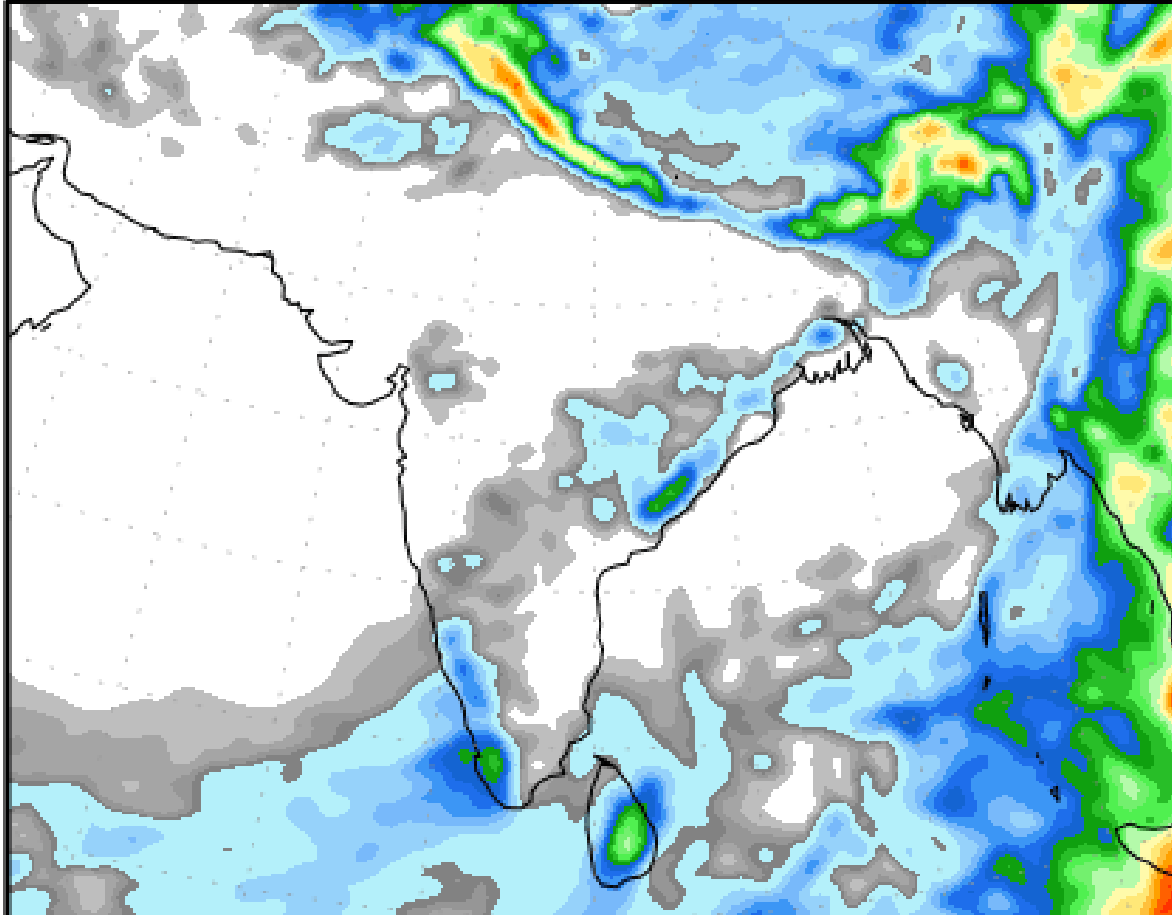


261

936

IMD, DELHI

**Figure: 1. Latest available satellite picture as on 06 April 2021 at 1357 Hrs (IST). (Source: IMD).**



**Figure 2. Precipitation forecast**  
for 06 Apr to 14 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.*