

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

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

### **Daily Crop Weather Information as on 29 April 2021**

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

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

- Under the influence of trough over east India, isolated to scattered rainfall/thunderstorm activities likely over east India during next 3 days and due to lower level southerly/southeasterly winds from Bay of Bengal and wind confluence over East India, rain/thunderstorm likely to increase from 02nd May onwards with scattered to widespread rain/thunderstorm likely over east and northeast India (Odisha, Jharkhand, Bihar, West Bengal & Sikkim and Assam & Meghalaya ) till 06th May. Thunderstorm activity accompanied with strong gusty winds is likely to be intense and accompanied by strong gusty winds of 40-60 kmph during 29 April to 01 May over east and northeast India (Gangetic West Bengal, Odisha, Assam, Meghalaya and Tripura). Isolated heavy rainfall also likely over Odisha on 3 May, over Gangetic west Bengal and Jharkhand on 4 & 5 May, Sub-Himalayan West Bengal & Sikkim on 3 & 4 May and over Assam & Meghalaya during 1-3 May, Nagaland, Manipur, Mizoram & Tripura on 3 & 4 May, 2021.
- Under the influence of trough from west Vidharbha to south Tamilnadu, isolated to scattered rainfall with isolated thunderstorms over south peninsular India likely to continue during next 4-5 days.
- Heat wave conditions very likely in isolated pockets over south Uttar Pradesh, Madhya Pradesh, Vidarbha and Bihar on 29th & 30th April and over Gangetic West Bengal on 29th April, 2021 and reduction thereafter due to thunderstorms activities over the region.
- 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 Sub-Himalayan West Bengal & Sikkim; at a few places over Arunachal Pradesh, Assam & Meghalaya and Lakshadweep; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Odisha, Nagaland, Manipur,

Mizoram & Tripura, Gujarat, Madhya Maharashtra, Marathwada, Konkan & Goa, Interior Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands.

- Thunderstorm observed (from 1730 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over Himachal Pradesh, Uttarakhand, Saurashtra & Kutch, Coastal Karnataka, Kerala & Mahe, Marathwada and Assam & Meghalaya. Hailstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today) at isolated places over Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada and Telangana.
- Maximum Temperature Departures as on 28-04-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Assam & Meghalaya and Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand and Nagaland, Manipur, Mizoram & Tripura; at many places over Himachal Pradesh and Bihar; at a few places over Gangetic West Bengal and Konkan & Goa; at isolated places over Sub-Himalayan West Bengal & Sikkim, West Rajasthan, Uttar Pradesh and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi and Punjab; at many places over Odisha, Jharkhand and Coastal Karnataka; at a few places over East Rajasthan, Madhya Pradesh, Vidarbha and Tamilnadu, Puducherry & Karaikal; at isolated places over Gujarat region. They were below normal (-1.6°C to -3.0°C) at isolated places over North Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.2°C was reported at Banda (East Uttar Pradesh).
- Minimum Temperature Departures as on 29-04-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Himachal Pradesh and West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Uttarakhand, Odisha and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Rajasthan and South Interior Karnataka; at isolated places over Gujarat state, East Uttar Pradesh, Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Telangana; below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh and Vidarbha; at isolated places over West Madhya Pradesh and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.5°C reported at Dehri (Bihar) over the plains of the country.

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

- 29 April (Day 1): Thunderstorm with lightning, hail & squall (speed reaching 50-60 kmph) very likely at isolated places over Assam & Meghalaya; with lightning, hail & gusty wind (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Madhya Maharashtra and Marathawada; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Himachal Pradesh, Punjab, Madhya Pradesh, Odisha, Gujarat state, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heat wave conditions very likely in isolated pockets over south Uttar Pradesh, Madhya Pradesh, Vidarbha, Bihar and Gangetic West Bengal.
- 30 April (Day 2): Thunderstorm with lightning, hail & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Bihar; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Madhya Maharashtra, Marathawada, Telangana and Kerala & Mahe and with lightning at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Odisha, Arunachal Pradesh, Gujarat state, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Karnataka and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heat wave conditions very likely in isolated pockets over south Uttar Pradesh, Madhya Pradesh, Vidarbha and Bihar.
- 01 May (Day 3): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Madhya Maharashtra, Marathwada; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Gangetic West Bengal; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Assam & Meghalaya and Jharkhand; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha,

Nagaland, Manipur, Mizoram & Tripura, Telangana and Kerala & Mahe and with lightning at isolated places over Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Gujarat State, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Karnataka and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy rainfall very likely at isolated places over Assam & Meghalaya.

- 02 May (Day 4): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Odisha, Madhya Maharashtra and Marathwada; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Gangetic West Bengal; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Konkan & Goa, Karnataka and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy rainfall likely at isolated places over Assam & Meghalaya.
- 03 May (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Gangetic West Bengal; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Rayalseema, Interior Karnataka and Lakshadweep. Heavy rainfall likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim and Odisha.
- The weather outlook for seven days i.e., 29 Apr to 07 May 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 16th week at Mohanpur, West Bengal: Maximum temperature: 33.5 to 38.5 0C, Minimum temperature: 20.0 to 27.0 0C, bright sun shine hours: 0.3 to 10.6 hours, Morning-time relative Humidity: 73 to 86 %, after noon-time R.H: 28 to 61%, weekly total pan evaporation: 34.0 mm, total weekly rainfall: 15.3 mm and average daily wind speed is 3.14 km/h.

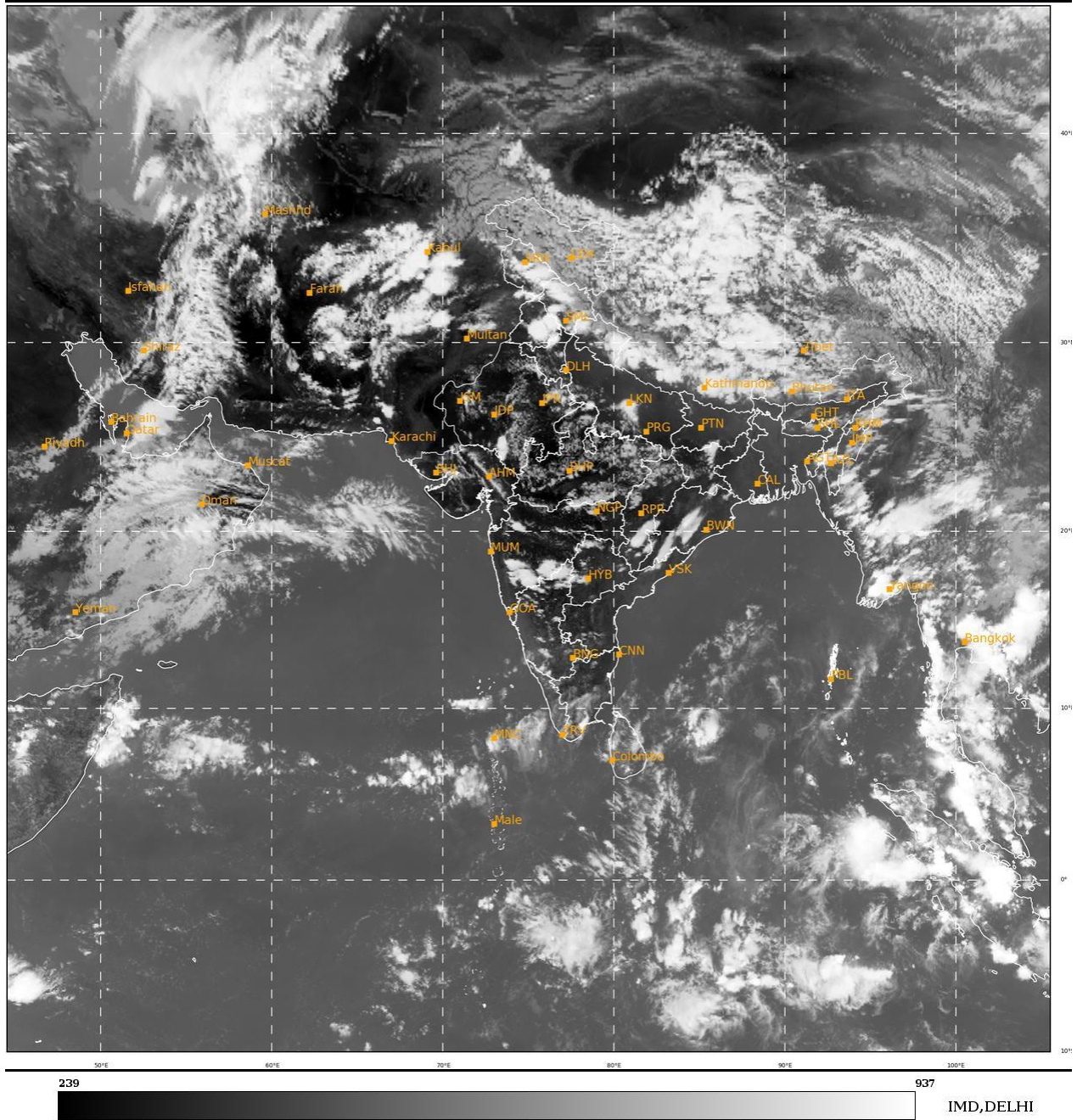
### Contingency measure:

- Boro Rice- Stem borer attack started the boro rice field . For control of sheath blight we can apply propiconazole 1ml/l, or validamycin 2gm/l of water. For control of yellow stem borer we can apply chlorantraniliprole( fatera) or cypermethrin 2ml/l of water. For control of Bacterial blight apply Agrimycin 5 gram/18 litre of water.
- Jute: Continue sowing operation. Before sowing, seeds should be treated with Carbendazim (@ 2 to 3 gm per Kg of seed). Sesame: It is the time for flowering for timely sown crop. According the amount of actual rainfall, irrigate the crop. In the prevailing weather situation, there is a possibility of attack of the disease leading to leaf-rolling. Uproot the infected plants. Apply Urea (@ 25 Kg/ Ha) as top dressing.
- 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 streptocycline (100 ppm) or Agrimycin-100 (100 ppm) after first visual symptom at 10-days intervals is recommended.

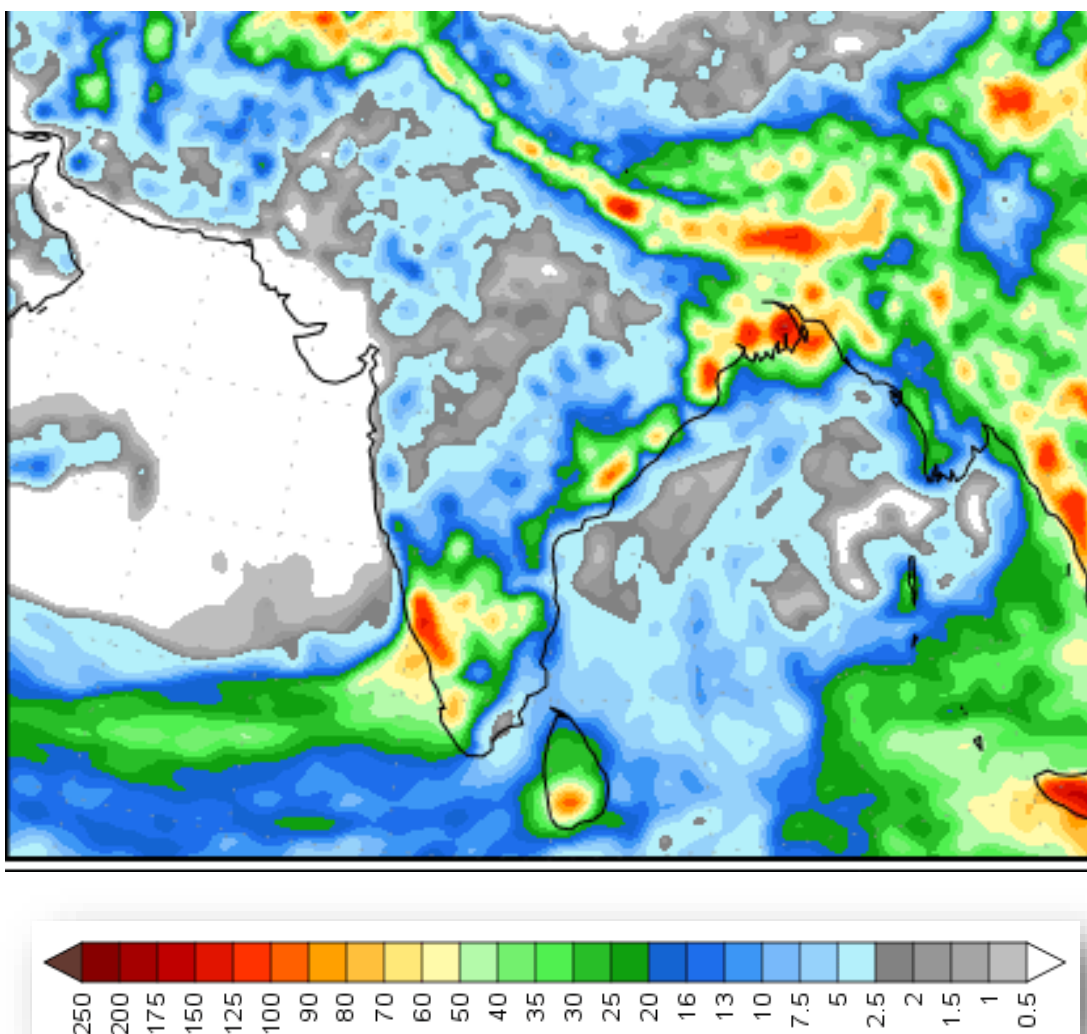


SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

29-04-2021/(0830 to 0856) GMT  
29-04-2021/(1400 to 1426) IST



**Figure: 1. Latest available satellite picture as on 29 April 2021 at 1426 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 29 Apr to 07 May 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.*