

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

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

### **Daily Crop Weather Information as on 05 May 2020**

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

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

- Convergence of moist easterly winds and conducive upper level features caused scattered to widespread rain/thundershowers over northwest India (Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan and Uttar Pradesh) yesterday. Thundersqualls and hailstorm also occurred at isolated places over the region. Similar weather is likely to continue over this region during next 3 days.
- Fairly widespread to widespread rain/thundershowers are likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 3-4 days and scattered to Fairly widespread rain/thundershowers over Odisha, Gangetic West Bengal, Bihar & Jharkhand during next 3 days. Thundersqualls (50-60 kmph) and hailstorm at isolated places are also likely over the region during this period. ♦ Isolated to scattered rain/thundershower likely over south peninsular India during next 4-5 days. ♦ Heat wave conditions very likely to prevail over Vidarbha during next 3 days and over Telangana during 2 days.
- The low pressure area over south Andaman Sea and adjoining southeast Bay of Bengal and associated cyclonic circulation extending upto mid-tropospheric levels persists. It is very likely to persist meandering over south Andaman Sea & adjoining southeast Bay of Bengal during next 4 days. The system is under continuous watch.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Odisha and Bihar; at a few places over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram &

Tripura, Gangetic West Bengal, Odisha, Jharkhand, Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, East Madhya Pradesh, Chhattisgarh and West Rajasthan.

- Thunderstorm observed (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, and Chhattisgarh; at a few places over Odisha and Gangetic West Bengal and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh, East Uttar Pradesh, East Rajasthan, South Interior Karnataka and Rayalaseema.
- Maximum Temperature Departures as on 04-05-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Arunachal Pradesh and Lakshadweep; at a few places over Assam & Meghalaya; at isolated places over Saurashtra & Kutch and Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over Vidarbha, Marathwada and Coastal Karnataka; at many places over Telangana, interior Karnataka, Rayalaseema and Kerala; at a few places over Madhya Maharashtra and at isolated places over East Madhya Pradesh and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at many places over Jharkhand; at a few places over Odisha and Haryana, Chandigarh & Delhi; appreciably below normal (-3.1°C to -5.0°C) at most places over Uttar Pradesh and Punjab; at many places over West Rajasthan; at a few places over East Madhya Pradesh and at isolated places over West Madhya Pradesh and East Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Sub-Himalayan west Bengal & Sikkim, Bihar and Coastal Andhra Pradesh & Yanam; at a few places over Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.9°C was reported at Akola (Vidarbha).
- Minimum Temperature Departures as on 04-05-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Gujarat region and Lakshadweep; at many places over Saurashtra & Kutch and Andaman & Nicobar Islands; at a few places over Madhya Maharashtra, West Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim; at isolated places over Konkan & Goa, Marathawada, Coastal & North Interior Karnataka; Kerala & Mahe, Telangana, Vidarbha and Assam & Meghalaya. They were appreciably below normal (-3.1°C to -5.0°C) at most places over Haryana, Chandigarh & Delhi; at isolated places over Gangetic West Bengal and Punjab; below normal (-1.6°C to -3.0°C) at a few

places over Uttarakhand, East Rajasthan, East Madhya Pradesh and Chhattisgarh; at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. The lowest minimum temperature of 17.0°C was reported at Purulia (Gangetic West Bengal) over the plains of the country.

- Minimum Temperature Departures as on 03-05-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan; at a few places over East Rajasthan; at isolated places over Marathwada; above normal (1.6°C to 3.0°C) at most places over Gujarat region, Konkan & Goa, Madhya Maharashtra and Lakshadweep; at a few places over Saurashtra & Kutch and Andaman & Nicobar Islands; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarakhand, Rayalaseema, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Gangetic West Bengal and Odisha; below normal (-1.6°C to -3.0°C) at a few places over East Uttar Pradesh, Jharkhand and Chhattisgarh; at isolated places over Bihar and East Madhya Pradesh and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 16.2°C was reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

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

- 05 May (Day 1): Thunderstorm accompanied with lightning, hail & squall (speed reaching 50-60 kmph) very likely at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Jharkhand; with lightning, hail & gusty winds (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim and Odisha; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad, Himachal Pradesh and East Rajasthan; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Bihar; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Rajasthan, West Madhya Pradesh, Chhattisgarh and Kerala & Mahe and with lightning at isolated places over East Madhya Pradesh, Arunachal Pradesh, Konkan & Goa, Telangana and North Interior Karnataka. Heavy rainfall very likely at isolated places over West Bengal & Sikkim, Odisha, Assam & Meghalaya and Nagaland,

Manipur, Mizoram & Tripura. Heat wave conditions very likely in isolated pockets over Vidarbha and Telangana.

- 06 May (Day 2): Thunderstorm accompanied with lightning, hail & squall (speed reaching 50-60 kmph) very likely at isolated places over Uttarakhand; with lightning, hail & gusty winds (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, East Uttar Pradesh and Madhya Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Bihar and Gangetic West Bengal; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Jharkhand, Odisha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Heat wave conditions very likely in isolated pockets over Vidarbha and Telangana.
- 07 May (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Madhya Pradesh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Odisha, Vidarbha, Chhattisgarh, Jharkhand, Rayalaseema, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim and South Interior Karnataka.
- 08 May (Day 4): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Madhya Pradesh, West Bengal & Sikkim, Assam & Meghalaya, South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Vidarbha, Chhattisgarh, Jharkhand, Rayalaseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and South Interior Karnataka.

- 09 May (Day 5): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Telangana & Coastal Andhra Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Bengal & Sikkim, Assam & Meghalaya, Odisha, South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Madhya Maharashtra, Marathawada, Vidarbha, Chhattisgarh, Jharkhand, Rayalaseema, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Kerala & Mahe and South Interior Karnataka.
- The weather outlook for seven days i.e., 05 to 13 May 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)**

### **West Bengal**

#### **Weather condition:**

Weather conditions during the 16th week at Mohanpur, West Bengal: Maximum temperature: 33.4 to 37.0 °C, Minimum temperature: 21.0 to 24.0 °C, bright sun shine hours: 2.7 to 7.0 hours, Morning-time relative Humidity: 90% to 92%, after noon-time R.H: 40% to 96%. Total weekly pan evaporation: 18 mm, Total rainfall: 19.2 mm and average daily wind speed is around 0.45 km/h.

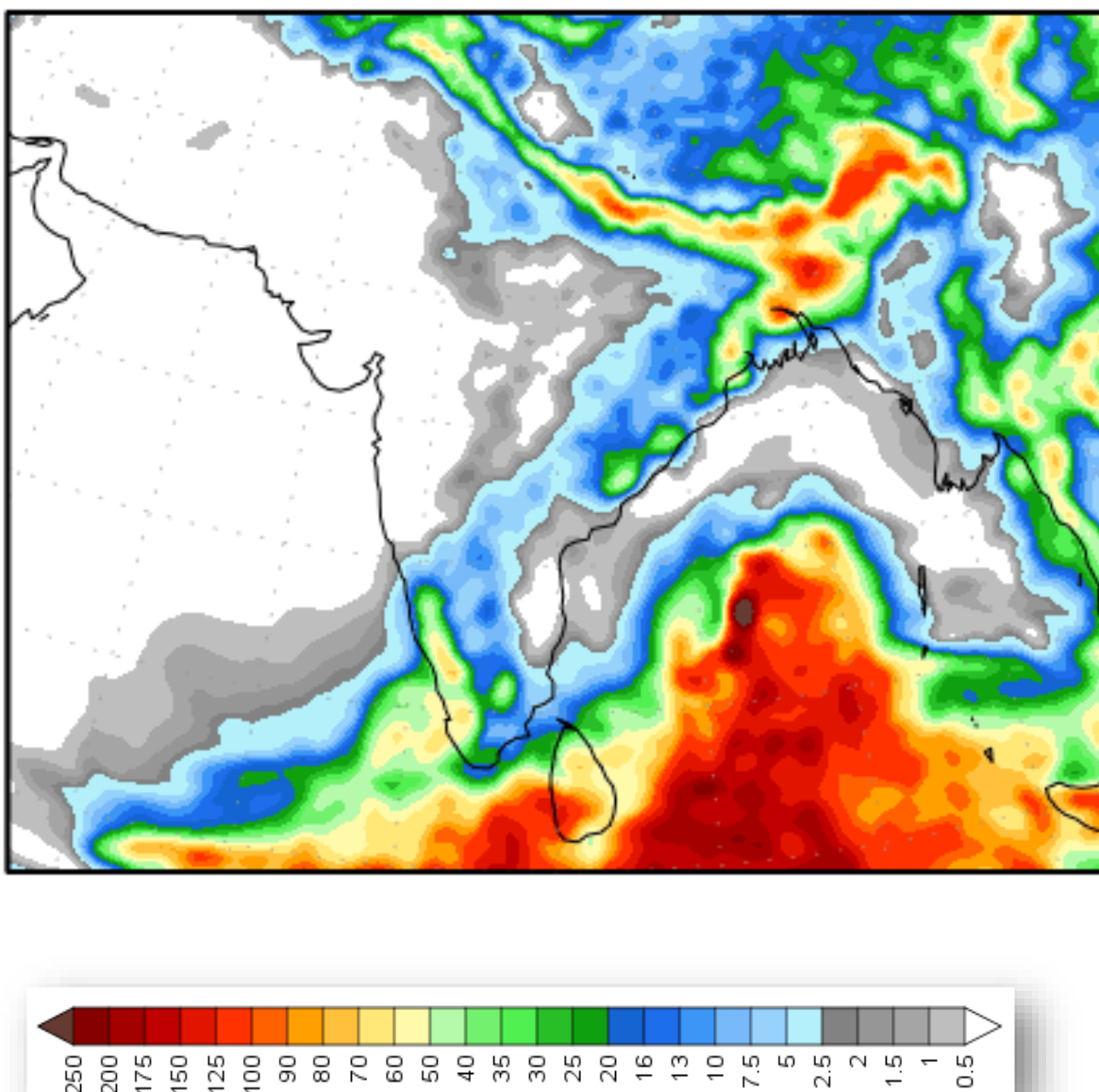
#### **Contingency measure:**

- Boro Rice: In the present weather situation there is a chance of spread of Yellow stem borer in late sown crop and Gundi bug in timely sown crop. Rainfall is expected in next few days, so apply irrigation according to the rainfall scenario.
- Jute: Continue sowing operation as there is chance of rainfall for coming days. 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: As the temperature is likely to be increased, so there is a chance of attack of Mites. To control the pest apply 1-2 gm Sulphur pesticide per litre of water. Apply irrigation as per requirement.
- Vegetables: maintain proper drainage channel as rainfall is forecasted.







**Figure:2. Precipitation forecast for 05 to 13 May 2020 (Source: NOAA NCEP).**

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