

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

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

### **Daily Crop Weather Information as on 03 May 2021**

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

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

- A cyclonic circulation lies over West Uttar Pradesh & neighbourhood and a trough runs from this circulation to Assam at lower levels. The trough in westerlies now runs roughly along longitude 90°E to the north of latitude 22°N in middle tropospheric levels. The the above east-west trough is very likely to persist over East & adjoining northeast India during next 4-5 days.
- Under its influence, fairly widespread to widespread rainfall/thunderstorm activity is very likely over northeastern states; and scattered rain/thundershower over rest parts of east India during next 5 days.
- Isolated heavy rainfall is also likely over Assam & Meghalaya on 4, 5 & 7 May; Sub Himalayan West Bengal & Sikkim on 3 & 4 May; over Gangetic West Bengal on 4 & 5 May; over Odisha on 4 May and over Arunachal Pradesh on 5 May, 2021. Thunderstorm & lightening activity accompanied with gusty winds is also likely over most parts of the above regions during next 4-5 days.
- Under the influence of north-south trough over south Peninsula at lower levels, light/moderate scattered to fairly widespread rain/thunder is very likely over Kerala & Mahe, Lakshadweep and Coastal & South Interior Karnataka; and isolated rain/thundershower over rest parts of south Peninsular India during next 5 days. Isolated heavy rainfall is also likely over Kerala & Mahe and Coastal & South Interior Karnataka from 5 & 6 May.
- Under the influence of two Western Disturbances in quick succession, isolated to scattered rain/thunder is very likely over Western Himalayan Region on 3 & 4 May; its intensity & distribution is very likely to increase thereafter with light to moderate scattered/fairly widespread rainfall/thundershower over the region during 5 to 7 May, 2021. Isolated heavy rainfall is also very likely over Uttarakhand on 6 May, 2021. Isolated to scattered rainfall with thunderstorm & lightening is also likely over plains of northwest India during next 5 days.
- The images showing the latest satellite picture in the figure. 1.

## Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at most places over Gangetic West Bengal; at many places over Andaman & Nicobar Islands, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at a few places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Odisha, Uttarakhand, Himachal Pradesh, Interior Karnataka and Kerala & Mahe; at isolated places over Jharkhand, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Rajasthan, Madhya Pradesh, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Coastal Karnataka.
- Heavy Rainfall recorded at isolated places over Assam & Meghalaya, Odisha, Telangana, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- Thunderstorm observed (from 1730 hrs IST of yesterday to 0830 hrs IST of today): at many places over Gangetic West Bengal & Sikkim; at a few places over Himachal, Uttarakhand, East Uttar Pradesh, Odisha, Kerala & Mahe and Madhya Maharashtra; at isolated places over Haryana, Chandigarh & Delhi, Chhattisgarh, Assam & Meghalaya, West Madhya Pradesh, Vidarbha, Saurashtra & Kutch, Punjab, Nagaland, Manipur, Mizoram & Tripura, Telangana, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Marathwada.
- Maximum Temperature Departures as on 02-05-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Arunachal Pradesh; at a few places over Assam & Meghalaya and at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh; at a few places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura at isolated places Konkan & Goa, Tamilnadu, Puducherry & Karaikal, Odisha and Sub-Himalayan West Bengal & Sikkim. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Chhattisgarh and Vidarbha; below normal (-1.6°C to -3.0°C) at most places over Marathwada and Madhya Pradesh; at many places over Jharkhand; at a few places over Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands and Bihar and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.3°C was reported at Sundernagar (Saurashtra & Kutch).
- Minimum Temperature Departures as on 03-05-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Andaman & Nicobar Islands;

at a few places over Gujarat Region; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Marathwada and Telangana; at a few places over West Madhya Pradesh and Gangetic West Bengal; at isolated places over East Rajasthan; below normal (-1.6°C to -3.0°C) at many places over East Madhya Pradesh, Vidarbha, Madhya Maharashtra, Jharkhand and Odisha; at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Assam & Meghalaya, Rayalaseema, Karnataka and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 14.5°C is reported at Bulsar (Gujarat Region) over the plains of the country.

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

- 03 May (Day 1): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Odisha; with lightning, hail & gusty wind (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Madhya Maharashtra; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Bihar and Gangetic West Bengal; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, Chhattisgarh, Jharkhand, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim.
- 04 May (Day 2): Thunderstorm with lightning, hail & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Assam & Meghalaya; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand and Telangana; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Gangetic West Bengal and Odisha; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, Bihar, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Rayalaseema, Coastal Andhra Pradesh & Yanam, North Interior

Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Marathawada, Konkan & Goa, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall very likely at isolated places over Assam & Meghalaya, West Bengal & Sikkim and Odisha.

- 05 May (Day 3): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand and Telangana; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand and Odisha; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Bihar, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Rayalaseema, Coastal & South Interior Karnataka and Lakshadweep. Heavy rainfall very likely at isolated places over Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Coastal & South Interior Karnataka.
- 06 May (Day 4): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand and Telangana; 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 Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Chhattisgarh, Vidarbha, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathawada and Kerala & Mahe and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over Rajasthan. Heavy rainfall likely at isolated places over Uttarakhand, Kerala & Mahe and Coastal & South Interior Karnataka.
- 07 May (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim and Odisha; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad,

Himachal Pradesh, Uttar Pradesh, Vidarbha, Gangetic West Bengal, Madhya Maharashtra, Marathawada, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over Rajasthan. Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya and Kerala & Mahe.

- The weather outlook for seven days i.e., 03 May to 11 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)**

### **Assam**

#### **Weather condition:**

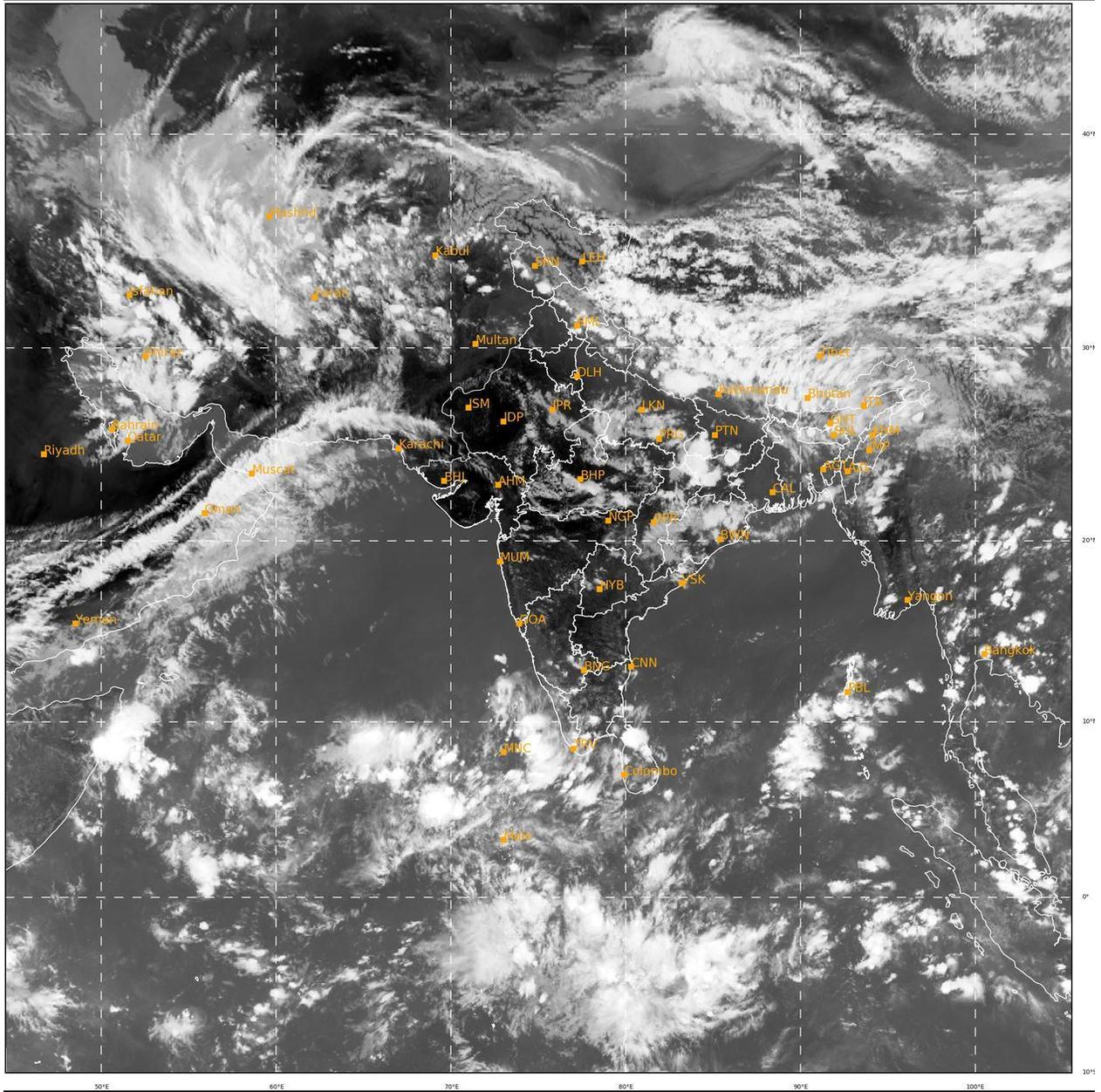
Weather during the last week was mainly clear. Daily average maximum temperature was 35.2 °C which was 6.5°C above normal and the average daily minimum temperature was 19.6°C which was 0.5°C below normal for the week. Total BSSH was 55.7 hrs with an average of 9.2 hrs/day. The daily average evaporation rate was 4.0 mm/day and the average daily wind speed during the week was 2.4 kmph. Daily average RH during morning and afternoon hour was 82% and 40.7% respectively.

#### **Contingency measure:**

- Boro rice (Milk/Dough): Timely sown boro paddy varieties are now in dough to mature stage. Attack of rice bug in milky/ dough stage cause empty grains and leads to sever loss. To control the pest, apply 5% malathion dust @ 2-3 kg per bigha of land. Application of fertilizer and chemicals should be adopted only in rain free weather.
- Ahu rice (Vegetative): Since there is no possibility of getting heavy rainfall in the coming 5? days, spraying of Flubendiamide 39.35 SC (@ 1.25 ml per 10 lit of water) or Flubendiamide 20% WG (@ 2.5 grams per 10 lit of water) or Fipronil (@ 7.5 ml per 10 lit of water) is advocated when moderate infestation of stem borer, thrips, leaf & plant hoppers is observed in ahu rice crop. Generally, about 55-65 lit water is required for spraying in one bigha area of land. Alternatively, farmers can go for dusting of Chlorantraniliprole 0.4G (@ 1.5 kg per bigha) to control the

pests.

- Summer Green gram/ Black gram (Vegetative): Present weather is congenial for occurrence of blight disease in the black gram crops. To control the disease, apply 0.05% Carbendazim (i.e., 300-500g in 600-700 lit of water per hectare area of land, under fair weather condition, at an interval of 12-15 days. To avoid water stagnation in the field during the ensuing rainy season, provide small drains at required interval for easy drainage of the excess rain water.
- Chilli (Fruiting): Fruit rot or Anthracnose disease may be observed in the chilli crop. Since, there is no possibility of getting rainfall in the coming 5 days farmers can spray Glyodin or Maneb pesticide in the recommended dose to control the disease.
- Banana (Planting): Farmers should go for planting of banana dwarf variety (Jahaji), medium tall variety (Chenichampa, Malbhog, Barjahaji) from this month. Size of the pit should be 45x45x45 cm. Planting should be done up to April. During this period, propping of banana trees with bamboo are recommended to avoid bending or breakage by wind.
- Poultry birds (Various): Regularly inspect the droppings of the poultry bird for any disease symptoms. Moreover, diseased and dead birds should be immediately removed. Vaccinate the 4-7 days old and 35 days old birds with F1/Lasota vaccine @ 1 drop through eye and nostril after proper consultation with veterinary doctor to prevent from Ranikhet disease.
- Fishery (various): Apply following chemicals to protect the fish population against various bacterial diseases prevalent in winter season - Potash @ 4-5 mg/lit of water.
- Livestock (various): As a prophylactic measure against FMD, the mouth and leg parts of healthy animals should be washed periodically and vaccinate timely. Infected animals should be isolated and kept separately. For proper diagnosis and immediate treatment consult with expert .

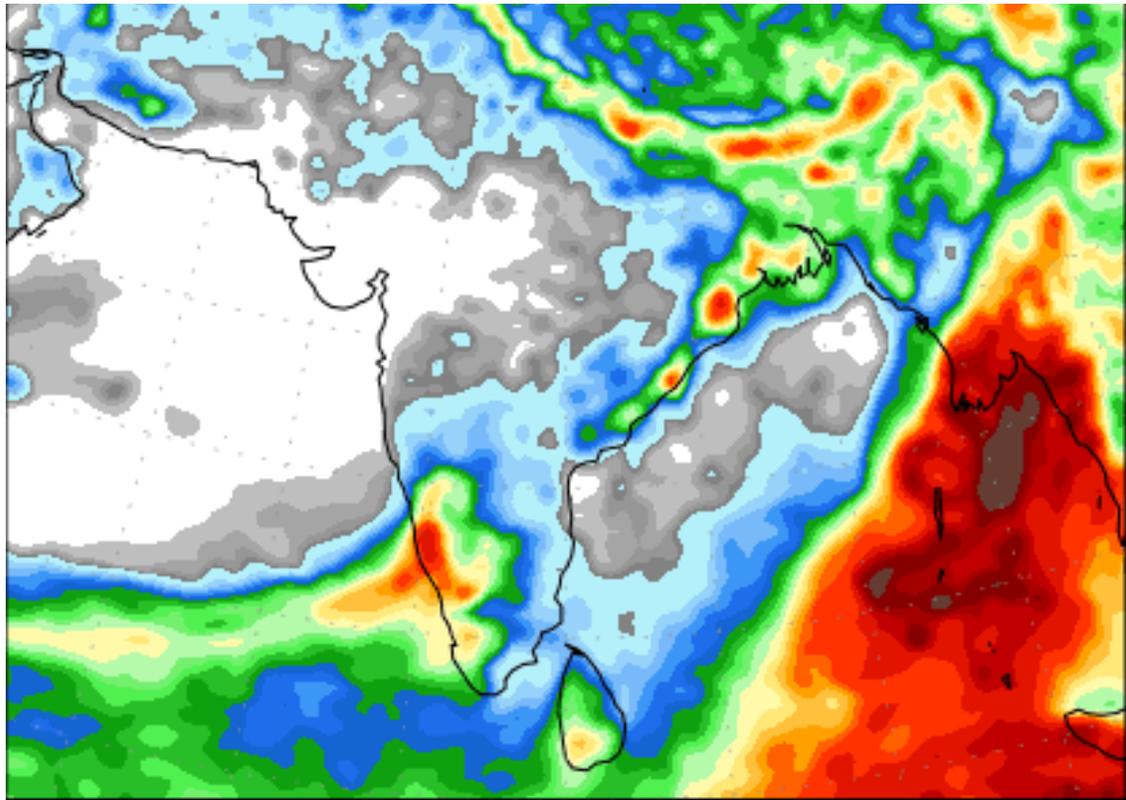


296

943

IMD,DELHI

Figure: 1. Latest available satellite picture as on 03 May 2021 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 03 May to 11 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.*