

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

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

### **Daily Crop Weather Information as on 28 May 2021**

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

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

- The northern limit of Southwest Monsoon continues to pass through 5°N/72°E, 6°N/75°E, 8°N/80°E, 12°N/85°E, 14°N/90°E and 17°N/94°E.
- Conditions are likely to become favourable for onset of Southwest Monsoon over Kerala around 31st May, 2021.
- The Well Marked Low Pressure Area (Remnant of Very Severe Cyclonic Storm 'YAAS') over Bihar & adjoining East Uttar Pradesh now lies over eastern parts of East Uttar Pradesh & adjoining Bihar and the associated cyclonic circulation extends upto 7.6 km above mean sea level. The system is very likely to move northwestwards and weaken further into a Low pressure area during next 12 hours. Under its influence, isolated heavy to very heavy rainfall with isolated extremely heavy falls likely over East Uttar Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim today, the 28th May, 2021.
- Due to strengthening of southerly winds, fairly widespread to widespread rainfall activity with isolated heavy falls very likely over Northeastern states and adjoining East India from 30th May, 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 most places over Sub-Himalayan west Bengal & Sikkim, Jharkhand and Bihar; at many places over Andaman & Nicobar Islands, Gangetic West Bengal, East Uttar Pradesh, Kerala & Mahe and Lakshadweep; at a few places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Odisha and at isolated places over Rajasthan, Madhya Pradesh, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Marathwada, Chhattisgarh, Telangana, Tamil Nadu, Puducherry & Karaikal and Karnataka.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places over Sub-Himalayan west Bengal & Sikkim, Jharkhand and

Bihar; heavy to very heavy rainfall at isolated places over Gangetic West Bengal and heavy rainfall at isolated places over East Uttar Pradesh and Andaman & Nicobar Islands.

- Thunderstorm/Hailstorm observed (from 0830 hours IST of yesterday to 0830 hrs IST today): Thunderstorm at isolated places over West Bengal & Sikkim, Odisha, Bihar, Marathwada, Telangana, West Madhya Pradesh and Lakshadweep. Hailstorm at isolated places over West Rajasthan and West Madhya Pradesh.
- Maximum Temperature Departures as on 27-05-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at isolated places over Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam and above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Himachal Pradesh, west Rajasthan, Arunachal Pradesh and Assam & Meghalaya; at a few places over Konkan & Goa. They were markedly below normal (-5.1°C or less) at most places over East Uttar Pradesh, Bihar and Jharkhand; at many places over SubHimalayan west Bengal & Sikkim and Odisha; at a few places over Gangetic West Bengal and East madhya Pradesh; below normal (- 1.6°C to -3.0°C) at most places over Rayalseema and North Interior Karnataka; at many places over West madhya Pradesh, Chhattisgarh, Madhya Maharashtra and Marathwada; at a few places over West Uttar Pradesh and South Interior Karnataka and at isolated places over East Rajasthan, Gujarat Region, Telangana, Kerala & Mahe and Coastal Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.5°C was reported at Bikaner (West Rajasthan) over the country.
- Minimum Temperature Departures as on 28-05-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Uttarakhand and Punjab; at many places over Saurashtra & Kutch; at a few places over Arunachal Pradesh, Andaman & Nicobar Islands and Lakshadweep; at isolated places over Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over East Uttar Pradesh; at isolated places over East Madhya Pradesh, Jharkhand and Telangana; below normal (-1.6°C to -3.0°C) at many places over West Madhya Pradesh and Bihar; at a few places over Gangetic West Bengal and Coastal Karnataka; at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Odisha, Vidarbha, Tamil Nadu, Puducherry & Karaikal and Kerala &

Mahe and near normal over rest of the country. Today, the lowest minimum temperature of 19.5°C is reported at Chapra (Bihar) over the plains of the country.

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

- 28 May (Day 1): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over East Uttar Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Bihar; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over East Rajasthan, Kerala & Mahe, Telangana, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Madhya Maharashtra, Marathwada and West Madhya Pradesh and with lightning at isolated places over Lakshadweep, Coastal Karnataka, Gangetic West Bengal and Konkan & Goa. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over West Rajasthan. Heat Wave conditions very likely at isolated places over West Rajasthan and north Coastal Andhra Pradesh. Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Bihar and Heavy Rainfall at isolated places over Andaman & Nicobar Islands. Squally Weather (wind speed 40-50 kmph) very likely to prevail over Southwest, Westcentral & Northwest Arabian Sea and over Gulf of Mannar and Comorin-Maldives area and south Sri Lanka coasts. Fishermen are advised not to venture into these areas.
- 29 May (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Kerala & Mahe, Telangana, Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada and Vidarbha and with lightning at isolated places over Uttarakhand, Lakshadweep, Coastal Karnataka, Coastal Andhra Pradesh, Jharkhand, Konkan & Goa, Chhattisgarh and Assam & Meghalaya. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over West Rajasthan. Heat Wave conditions very likely at isolated places over West Rajasthan and north Coastal Andhra Pradesh. Heavy Rainfall at isolated places very likely over Kerala & Mahe, Sub-Himalayan West Bengal & Sikkim and Bihar. Squally Weather (wind speed 40-50 kmph) very likely to prevail over Southwest, Westcentral & Northwest Arabian Sea and over Gulf of Mannar and Comorin-Maldives area and south Sri Lanka coasts. Fishermen are advised not to venture into these areas.
- 30 May (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan; with lightning &

gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Kerala & Mahe, Telangana, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathwada and Vidarbha and with lightning at isolated places over Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Gangetic West Bengal, Jharkhand, Konkan & Goa, East Madhya Pradesh, Chhattisgarh, Arunachal Pradesh and Assam & Meghalaya. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over West Rajasthan. Heavy Rainfall very likely at isolated places over Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. Squally Weather (wind speed 40-50 kmph) very likely to prevail over Southwest, Westcentral & Northwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 31 May (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over East Rajasthan; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, North Interior Karnataka, Telangana, Andaman & Nicobar Islands, West Bengal & Sikkim, Odisha, Jharkhand, Madhya Maharashtra, Marathwada, Vidarbha and Assam & Meghalaya and with lightning at isolated places over Himachal Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Lakshadweep, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Konkan & Goa, East Madhya Pradesh, Chhattisgarh, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over West Rajasthan. Heavy to Very Heavy Rainfall at isolated places likely over Assam & Meghalaya and Heavy Rainfall at isolated places over Kerala & Mahe, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh. Squally Weather (wind speed 40-50 kmph) very likely to prevail over Southwest, Westcentral & Northwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 01 June (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over East Rajasthan; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, North Interior Karnataka, Telangana, Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Jharkhand, Madhya Maharashtra,

Marathwada, Vidarbha and Assam & Meghalaya and with lightning at isolated places over Himachal Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Lakshadweep, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Konkan & Goa, East Madhya Pradesh, Chhattisgarh, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over West Rajasthan. Heavy Rainfall likely at isolated places over Assam & Meghalaya. Squally Weather (wind speed 40-50 kmph) very likely to prevail over Southwest, Westcentral & Northwest Arabian Sea. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 28 May to 05 Jun 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)**

### **Gujarat**

#### **Weather condition:**

The actual maximum temperature was 0.1 °C lower and the actual minimum temperature was 1.4 °C higher as compare to their normal. Total BSS was 72.5 hrs. with an average of 10.4 hrs. The daily average evaporation and wind speed was 9.3 mm and 4.7 km/hr respectively. The daily average RH during morning and afternoon was 70.4 % and 32.9 % respectively.

#### **Contingency measure:**

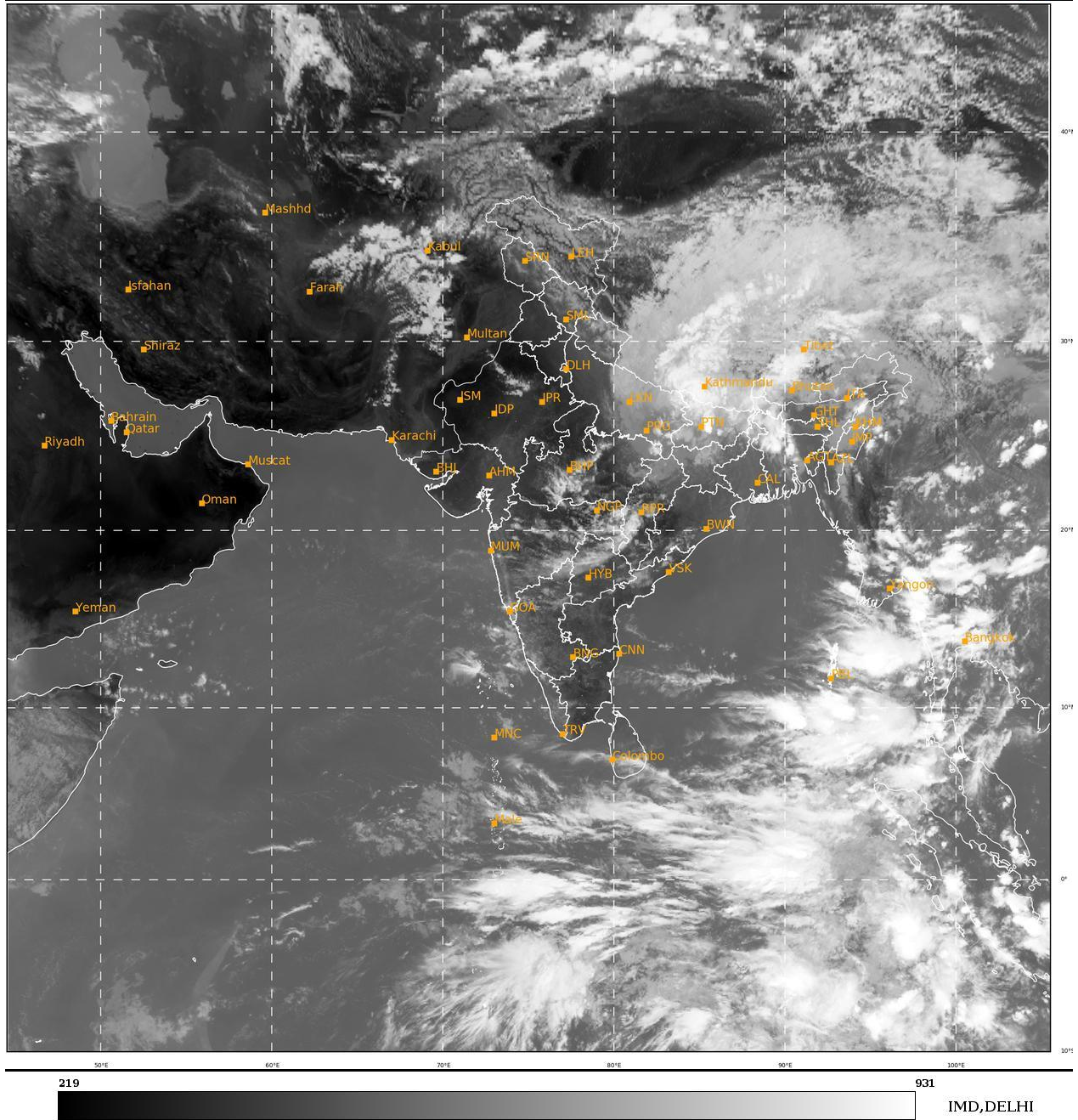
- Weeding, interculturing and irrigation should be done in summer crops like pearl millet, green gram, cow pea, okra etc. if required.
- Summer greengram :For effective control of whitefly infestation and other sucking pest infestation observed spray neem oil @ 50ml/15 liter or Imidachlopride 17.8 SL @ 5ml/15 liter or Acetamiprid 20% SP @ 3 g/15 liter. Use 10 pheromone trap per acre for management of sucking pest.
- Brinjal: Growth: Fruit and Shoot borer: If infestation found install 40 pheromone trap. Change lure at 21 day interval. And spray Diclorovos 76 EC 7 ml or Deltamethrin 1% + Triazophos 36% EC 10 ml in 10 lit water. Uproot and burn little leaf diseases infected brinjal plant and spray any systemic insecticide.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.

- Banana : Apply irrigation at an interval of 4 to 5 days as per requirement of crop in summer season. Spraying with zinc sulphate 0.5% or ferrous sulphate 0.2% in banana crop at flowering stage for improving quality and yield.
- Mango: Reduction of high temperature effect of mango fruits can be managed by irrigating the orchard. Install nauroji fruit fly trap @ 10 trap per hector in mango orchard nearby to sapota orchard.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Due to starting of summer season, it is ensure that animals get drinkable water round the clock, if not possible than after give adlib water atleast 4 - 5 time in a day. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. FMD vaccination should be done.

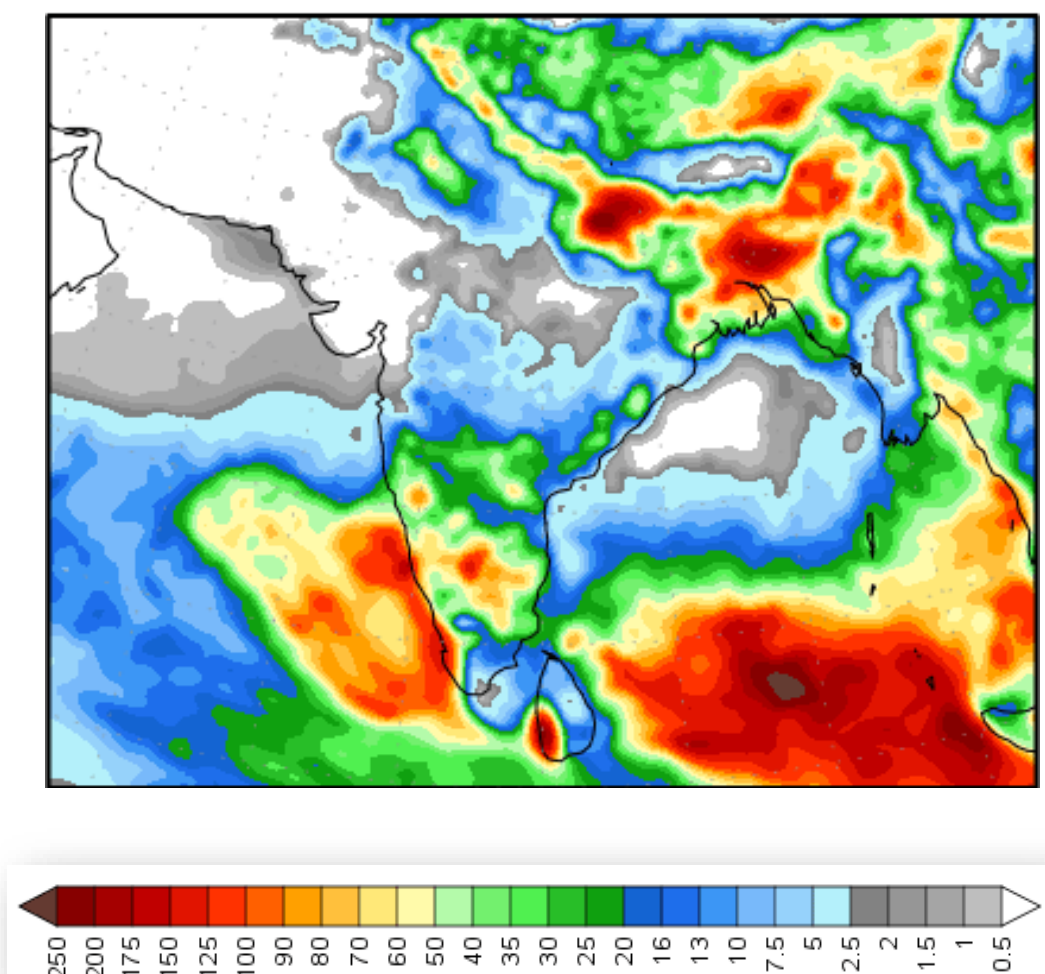


SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

28-05-2021/(0830 to 0856) GMT  
28-05-2021/(1400 to 1426) IST



**Figure: 1. Latest available satellite picture as on 28 May 2021 at 1426 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 28 May to 05 Jun 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.*