

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

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

### **Daily Crop Weather Information as on 11 May 2020**

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

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

- Under the influence of interaction of Western Disturbance and associated cyclonic circulation with easterly winds over Northwest India, scattered to fairly widespread rain/thunderstorm accompanied with gusty winds (speed reaching 40-50 kmph) at isolated places likely to continue over Western Himalayan Region and plains of Northwest India during next 24 hours and reduce significantly from 12th May.
- A fresh Western Disturbance is likely to affect Western Himalayan Region from 14th May, 2020. Under its influence, a fresh spell of rain/thundershowers likely to occur over this region & adjoining plains from 14th May for subsequent 1-2 days.
- Due to trough/wind discontinuity, isolated to scattered rain/thundershowers very likely over central & south peninsular India during next 4-5 days. Thunderstorms accompanied with lightning, hail and gusty winds (30-40 kmph) at isolated places also likely over these regions during same period. Heavy rainfall also likely at isolated places over Kerala and Tamilnadu during next 24 hours and over Kerala and Coastal Karnataka on 13th & 14th May.
- Scattered to fairly widespread rain/thundershowers likely to continue over Northeast India during next 4-5 days with peak activities during 12th-14th May when heavy rainfall also likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Eastern India is likely to experience isolated to scattered rain/thundershowers during next 5 days with peak activity during 11th-12th May.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 to 1730 hours IST of yesterday): at most places over Uttarakhand and West Uttar Pradesh; at many places over Himachal Pradesh; at a few places over Haryana, Chandigarh & Delhi and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad,

Punjab, Madhya Pradesh, Jharkhand, Odisha, Assam & Meghalaya, Marathwada, Vidarbha, North Interior Karnataka and Andaman & Nicobar Islands.

- Heavy Rain occurred at isolated places over Andaman & Nicobar Islands.
- Thunderstorm observed (from 1130 hours IST yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Jharkhand, Bihar, Odisha, West Bengal & Sikkim, Vidarbha, Madhya Maharashtra, Marathwada, Telangana, North Interior Karnataka, Tamil Nadu, Kerala & Mahe and Meghalaya.
- Maximum Temperature Departures as on 10-05-2020: Maximum temperatures were markedly above normal ( $5.0^{\circ}\text{C}$  or more) at isolated places over Assam & Meghalaya; appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at a few places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and at isolated places over East Rajasthan and West Bengal; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at many places over Sikkim; at a few places over West Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Coastal Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and at isolated places over Madhya Maharashtra and Andaman & Nicobar Island. They were markedly below normal ( $-5.0^{\circ}\text{C}$  or less) at many places over Haryana, Chandigarh & Delhi; at a few places over Uttarakhand and at isolated places over Himachal Pradesh, Punjab and northwest Uttar Pradesh; appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at many Places over East Uttar Pradesh; at a few places over rest West Uttar Pradesh and at isolated places over eastern parts of East Madhya Pradesh, east Vidarbha and Telangana; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, western parts of Bihar, Chhattisgarh, interior Odisha, rest Parts of Vidarbha, Marathwada, North Interior Karnataka and Coastal Andhra Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of  $45.0^{\circ}\text{C}$  was reported at Kota (East Rajasthan).
- Minimum Temperature Departures as on 10-05-2020: Minimum temperatures were appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at a few places over Rajasthan; at isolated places over Haryana, Chandigarh & Delhi and Madhya Maharashtra; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at most places over Gujarat region; at many places over Andaman & Nicobar Islands; at a few places over Punjab, Saurashtra & Kutch, Bihar and Sub-Himalayan West Bengal & Sikkim; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarakhand, West

Uttar Pradesh, Karnataka, Kerala & Mahe, Odisha, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at isolated places over Vidarbha; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at a few places East Madhya Pradesh and Telangana; at isolated places over East Uttar Pradesh, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Gangetic West Bengal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of  $17.4^{\circ}\text{C}$  was reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

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

- 11 May (Day 1): Thunderstorm accompanied with lightning, hail & squally winds (speed reaching 50-60 kmph) very likely at isolated places over Chhattisgarh and Jharkhand; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Telangana; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Uttarakhand, Bihar and Gangetic West Bengal; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Vidarbha and Odisha; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Madhya Maharashtra, Marathawada, Assam & Meghalaya, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Madhya Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Rayalaseema. Duststorm/thunderstorm accompanied with hail & gusty winds (speed 30-40 kmph) very likely at isolated places over East Rajasthan and with gusty winds (speed 40-50 kmph) at isolated places over West Rajasthan.
- 12 May (Day 2): Thunderstorm accompanied with lightning, hail & squally winds (speed reaching 50-60 kmph) very likely at isolated places over Jharkhand; with lightning, hail & gusty winds (speed reaching 40-50 kmph) at isolated places over Chhattisgarh; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Assam & Meghalaya, Bihar and Gangetic West Bengal; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Odisha; with lightning & gusty winds (speed reaching 30- 40 kmph) at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala &

Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Tamil Nadu, Puducherry & Karaikal and Rayalaseema. Heavy rainfall very likely at isolated places over Assam & Meghalaya.

- 13 May (Day 3): Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph) likely at isolated places over Assam & Meghalaya; with lightning, hail & gusty winds (speed reaching 30-40 kmph) 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 Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Rayalaseema. Heavy rainfall likely at isolated places over Assam & Meghalaya, Coastal & South Interior Karnataka and Kerala & Mahe.
- 14 May (Day 4): Thunderstorm accompanied with lightning, hail & squally winds (speed reaching 50-60 kmph) likely at isolated places over Haryana, Chandigarh & Delhi and West Uttar Pradesh; with lightning, hail & gusty winds (speed reaching 30-40 kmph) 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 Rajasthan, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Rayalaseema. Heavy rainfall likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.
- 15 May (Day 5): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka

and Kerala & Mahe and with lightning at isolated places over East Madhya Pradesh, Odisha, Tamilnadu, Puducherry & Karaikal and Rayalaseema. Heavy rainfall likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.

- The weather outlook for seven days i.e., 11 to 19 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)**

### **Gujarat**

#### **Weather condition:**

The actual maximum temperature was 1.4 °C and Actual minimum temperature was 1.6 °C higher as compared to their normals. Total BSS was 78.3 hrs. with an average of 11.2 hrs. The daily average evaporation and wind speed was 9.8 mm and 4.9 km/hr respectively. The daily average RH during morning and afternoon was 59.6 % and 27.0 % respectively.

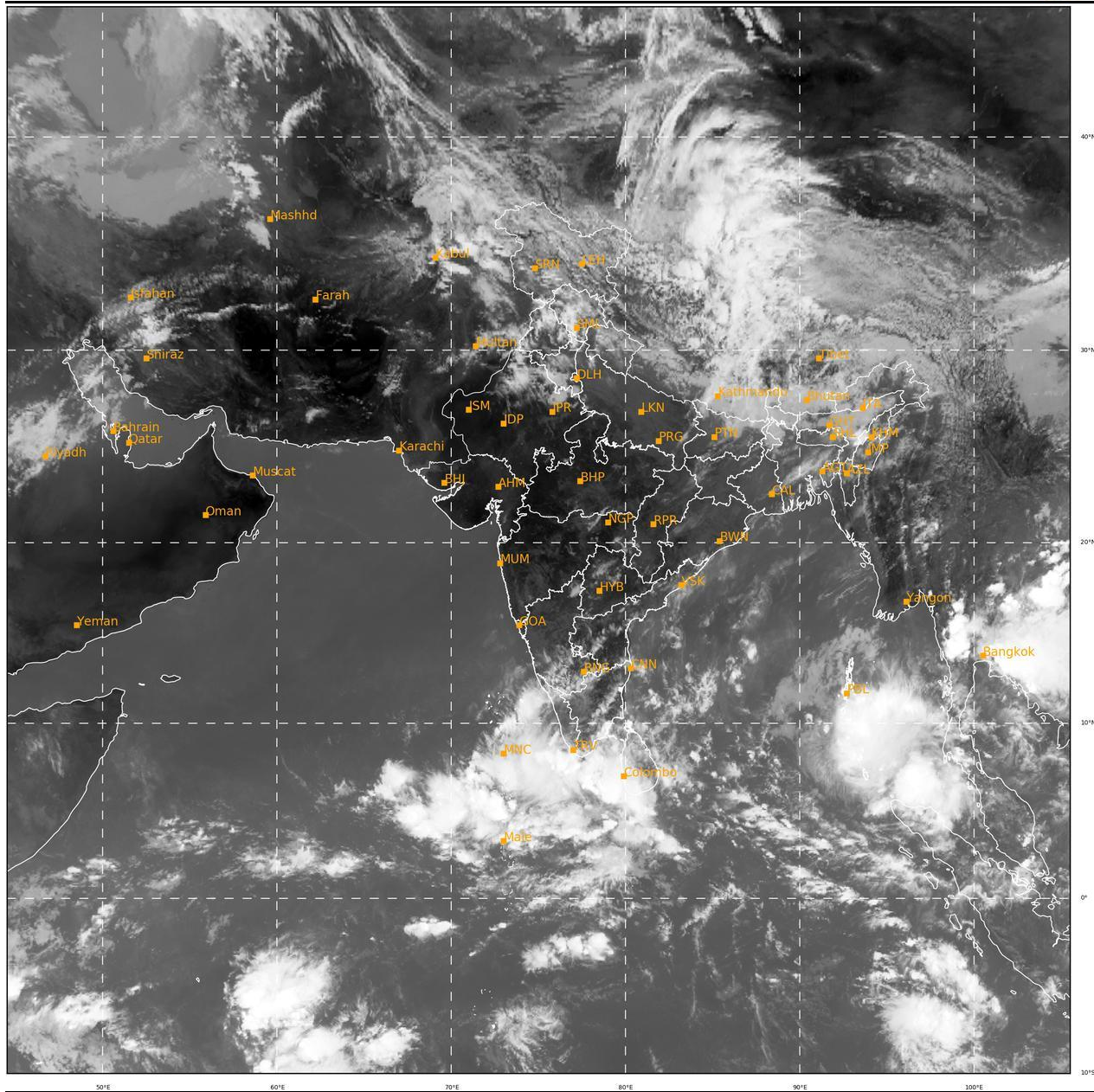
#### **Contingency measure:**

- Weeding, interculturing and irrigation should be done in summer crops like pearl millet, green gram, cow pea, okra etc. as and when required. In greengram, yellow mosaic virus is transmitted by whitefly. For effective control of whitefly infestation spray imidacloprid 3ml per 10 liter of water.
- Summer Paddy: Growth :Rice leaf roller: Apply neem arc 5% (500 gm powder) in 10 lit of water and apply in evening times.
- 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.
- Vegetable Crop: Growth: Thrips and Mite: Due to hot and dry condition if mite and thrips incidence occurs spray Methyl-o-dematone 25 EC 10 ml in 10 lit water.
- MANGO: Reduction of high temperature effect of mango fruits can be managed by irrigating the orchard. Apply half dose of nitrogen (750 g urea or 1750 g Ammonium sulphate) followed by two irrigations at 20-25 days interval. Install nauroji fruit fly trap @ 10 trap per ha in mango orchard nearby to sapota orchard.
- Cattle: Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day.



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

11-05-2020/(0600 to 0626) GMT  
11-05-2020/(1130 to 1156) IST

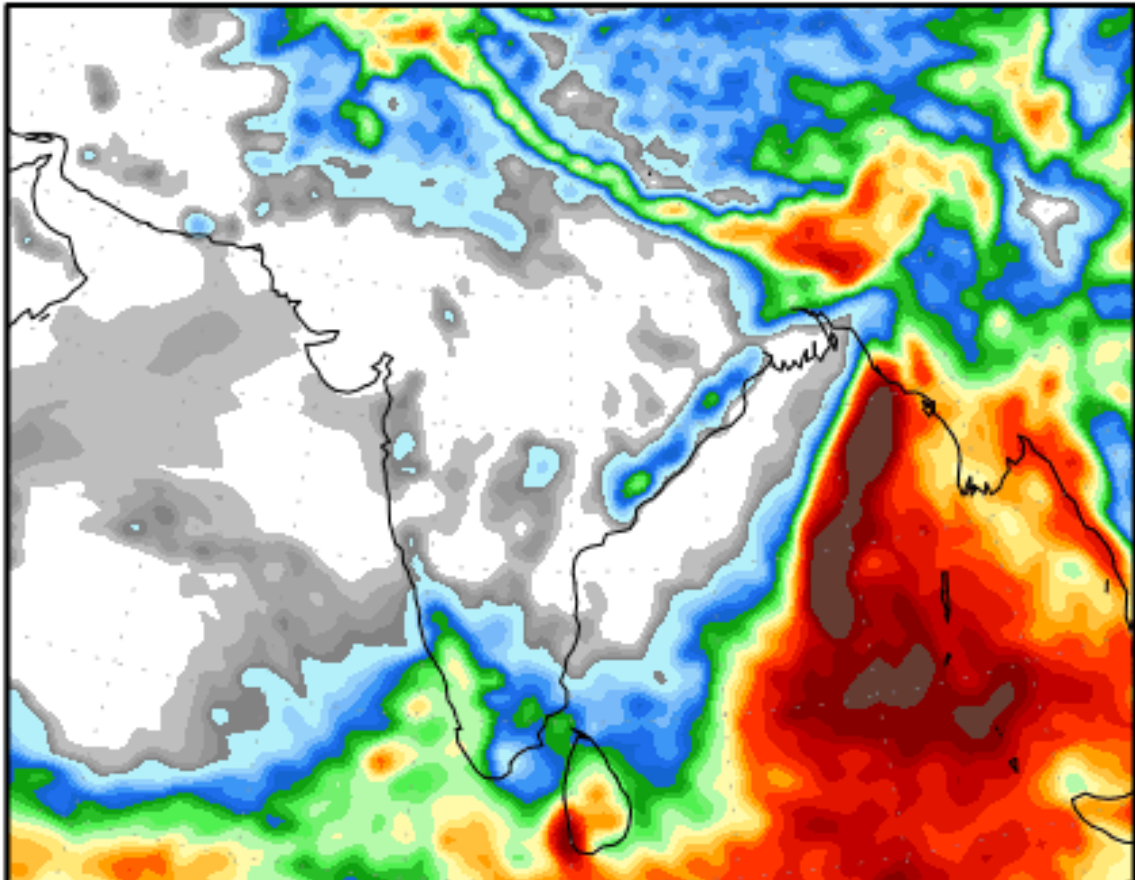


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IMD, DELHI

**Figure: 1. Latest available satellite picture as on 11 May 2020 at 1156 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 11 to 19 May 2020 (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.*