

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

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

### **Daily Crop Weather Information as on 08 May 2020**

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

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

- Convergence of moist southwesterly winds in the lower levels aided by favourable upper level wind pattern is likely to cause scattered to fairly widespread rain/thundershowers over Northeast India (Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura) and Eastern states (West Bengal, Sikkim, Odisha, Jharkhand and Bihar) during next 5-7 days. Thunderstorms accompanied with lightning and occasional thundersqualls (wind speed 50-60 kmph and more), hailstorms at isolated places are also likely over these regions during this period.
- A fresh feeble Western Disturbance and its interaction with low level easterlies is likely to cause isolated to scattered rain/thundershowers over Western Himalayan Region and plains of northwest India mainly during 10 to 13 May, 2020. Thunderstorms accompanied with lightning, hail and gusty winds (30-40 kmph) at isolated places also likely over these regions during same period.
- Due to trough/wind discontinuity, isolated to scattered rain/thundershowers very likely over central & south peninsular India during next 5 days. Thunderstorms accompanied with lightning, hail and gusty winds (30-40 kmph) at isolated places also likely over these regions during same period. Presence of cyclonic circulations in the lower and mid levels are also likely to cause squally weather (wind speed occasionally reaching 40-50 kmph) over south Andaman Sea and Lakshadweep area during next 2-3 days.
- Maximum Temperatures likely to remain between 41-44°C over some parts of Rajasthan, Gujarat, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema and North Interior Karnataka during next 2-3 days.
- 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 Bihar, Arunachal Pradesh, Sub-Himalayan West

Bengal & Sikkim and South Interior Karnataka; at many places over Andaman & Nicobar Islands, Assam & Meghalaya and Kerala & Mahe; at a few places over Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Coastal & North Interior Karnataka; at isolated places over Uttarakhand, Uttar Pradesh, Jharkhand, Odisha, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

- Heavy rainfall occurred at isolated places over Tamil Nadu and Telangana.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Kerala; at isolated places over Arunachal Pradesh, Assam & Meghalaya, East Uttar Pradesh, West Bengal & Sikkim, Bihar, Kerala & Mahe, Karnataka, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 07-05-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan, Saurashtra & Kutch, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Coastal Karnataka and Lakshadweep; at a few places over Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat region, South Interior Karnataka and Andaman & Nicobar Islands and at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, North Interior Karnataka, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura. They were markedly below normal (-5.1°C or less) at many places over East Uttar Pradesh; at a few places over West Uttar Pradesh and at isolated places over Himachal Pradesh, Bihar, Odisha and Chhattisgarh; appreciably below normal (-3.1°C to -5.0°C) at most places over Uttarakhand and at isolated places over Haryana, Chandigarh & Delhi and Telangana; below normal (-1.6°C to -3.0°C) at most places over Punjab; at a few places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad and at isolated places over Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.9°C reported at Jaisalmer (West Rajasthan).
- Minimum Temperature Departures as on 08-05-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over West Rajasthan; at a few places over Andaman & Nicobar Islands and Marathwada; at isolated places over Gujarat state, Madhya Maharashtra, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at most places over Bihar; at a few places over Gangetic West Bengal; at isolated places over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh; below normal (-1.6°C to -3.0°C) at most places over Jharkhand and Uttarakhand;

at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Telangana, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and at isolated places over East Rajasthan and Vidarbha and near normal over rest parts of the country. The lowest minimum temperature of 16.9°C reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

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

- 08 May (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Assam & Meghalaya, Arunachal Pradesh and Telangana; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Coastal & North Interior Karnataka. Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and Lakshadweep. In association with occasional thundersqualls, wind speed reaching 40-50 kmph very likely over south Andaman Sea & north Sumatra coast and Lakshadweep-Maldives area. Fishermen are advised not to venture into these areas.
- 09 May (Day 2): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Gangetic West Bengal and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Rajasthan, Vidarbha, Odisha, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Madhya Maharashtra, Marathawada, Telangana, Lakshadweep and Kerala & Mahe and with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Rayalaseema, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. In association with occasional thundersqualls, wind speed reaching 40-50 kmph very likely over south Andaman Sea & north Sumatra coast. Fishermen are advised not to venture into these areas.

- 10 May (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, East Rajasthan, East Uttar Pradesh, Madhya Pradesh, Telangana and Chhattisgarh; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Gangetic West Bengal; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Jharkhand and Odisha; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Vidarbha, Bihar, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, North Interior Karnataka, Lakshadweep and Kerala & Mahe and with lightning at isolated places over West Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Duststorm very likely at isolated places over Rajasthan. Heavy rainfall very likely at isolated places over Odisha and Coastal Andhra Pradesh.
- 11 May (Day 4): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, East Uttar Pradesh and Chhattisgarh; with lightning, hail & squall (speed reaching 50-60 kmph) at isolated places over Jharkhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, West Bengal & Sikkim, Odisha, Telangana, South Interior Karnataka, Lakshadweep and Kerala & Mahe and with lightning at isolated places over West Madhya Pradesh, West Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Duststorm likely at isolated places over Rajasthan. Heavy rainfall likely at isolated places over Assam & Meghalaya and Kerala & Mahe.
- 12 May (Day 5): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand, East Uttar Pradesh and Chhattisgarh; with lightning, hail & squall (speed reaching 50-60 kmph) at isolated places over Jharkhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Haryana, Chandigarh & Delhi, Rajasthan, East Madhya Pradesh, Vidarbha, Bihar, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Telangana, Karnataka, Lakshadweep

and Kerala & Mahe and with lightning at isolated places over Punjab, West Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Heavy rainfall likely at isolated places over Assam & Meghalaya, South Interior Karnataka and Kerala & Mahe.

- The weather outlook for seven days i.e., 08 to 16 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)**

### **Haryana**

#### **Weather condition:**

Weather was mainly variable. About 18.2 mm rainfall was received at station. Maximum temperature was mainly below the normal except on 2nd May, 2020. Minimum temperature on was above the normal except on 1st May and 4th May, 2020. The morning and evening relative humidity during the week varied between 58-88 and 22-54%, respectively. The sunshine hours during the week ranged between 6.7-10.1 hrs/day. The evaporation rate during the week ranged between 3.6-10.1 mm/day. Daily average wind speed varied from 0.0-14.0 kmph..

#### **Contingency measure:**

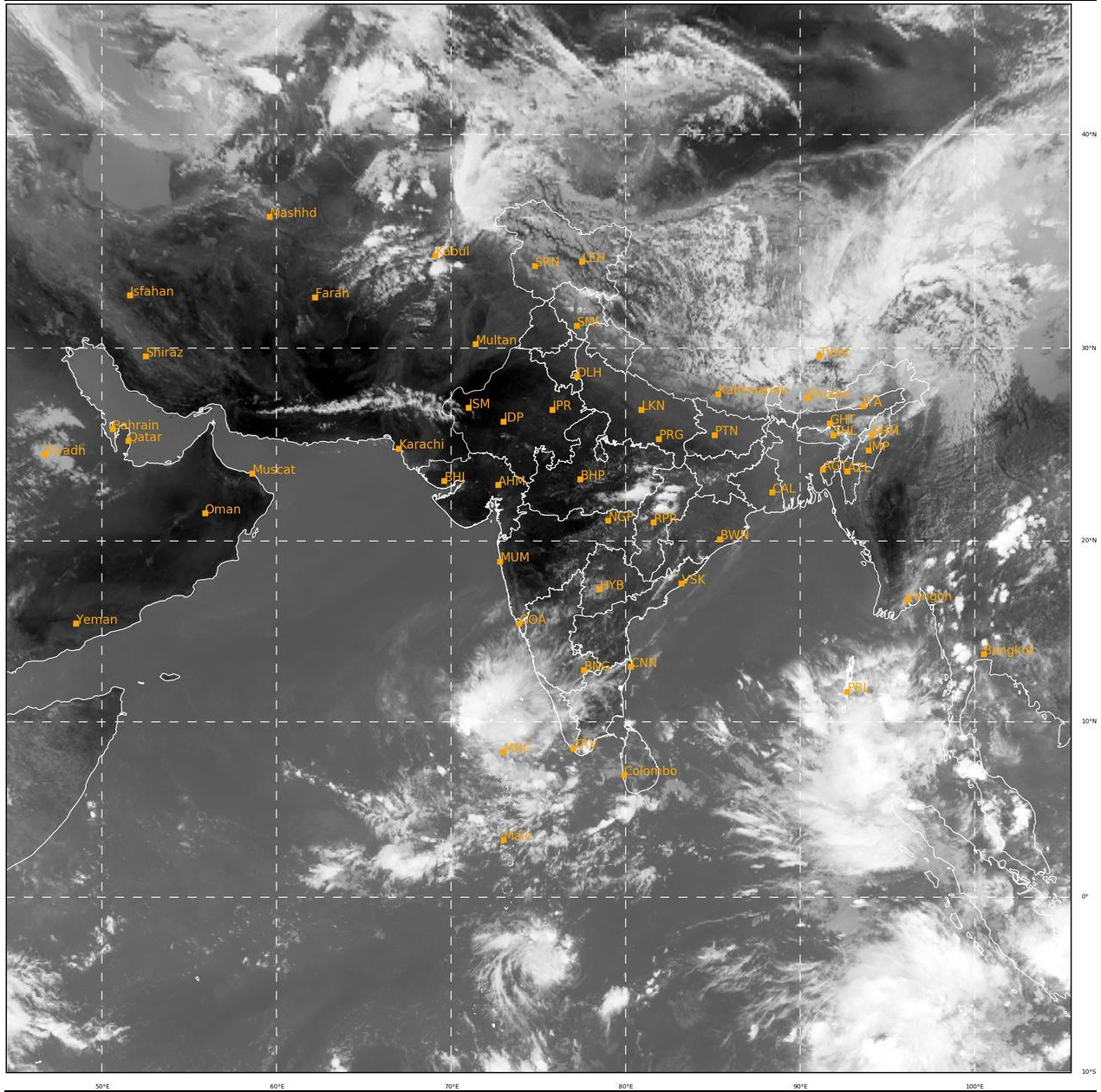
- Weather Forecast: Weather likely to be variable. Due to partial WD, chances of light rainfall with thunderstorm/ lightning on 31st March at isolated places. In remaining days, weather will be dry with partly cloudy condition.
- General advised: In view of variable weather, farmers are advised to apply irrigation and chemical spray as per crop need in rabi crops.
- Wheat: Irrigate the crop as per its requirement. Keep monitoring for rust and smut.
- Mustard/Raya: Keep variable weather in mind during harvesting and threshing of mustard/other oilseed crops.
- Fodder/Barseem: Apply irrigation accordance of crop need.
- Vegetables/Fruits: Apply need based irrigation in vegetable crops. Keep vigil for insect-pest and diseases and follow proper weed control measures. Fishery Maintain good amount of water in pond to save fishes from variable weather.
- Live stock management: Protect the animals from variable weather conditions and provide proper ventilation and dry bedding. Provide 50 grams iodized salt

and 50 to 100 grams mineral mixture daily along with animal feed/fodder, green fodder to keep them healthy.



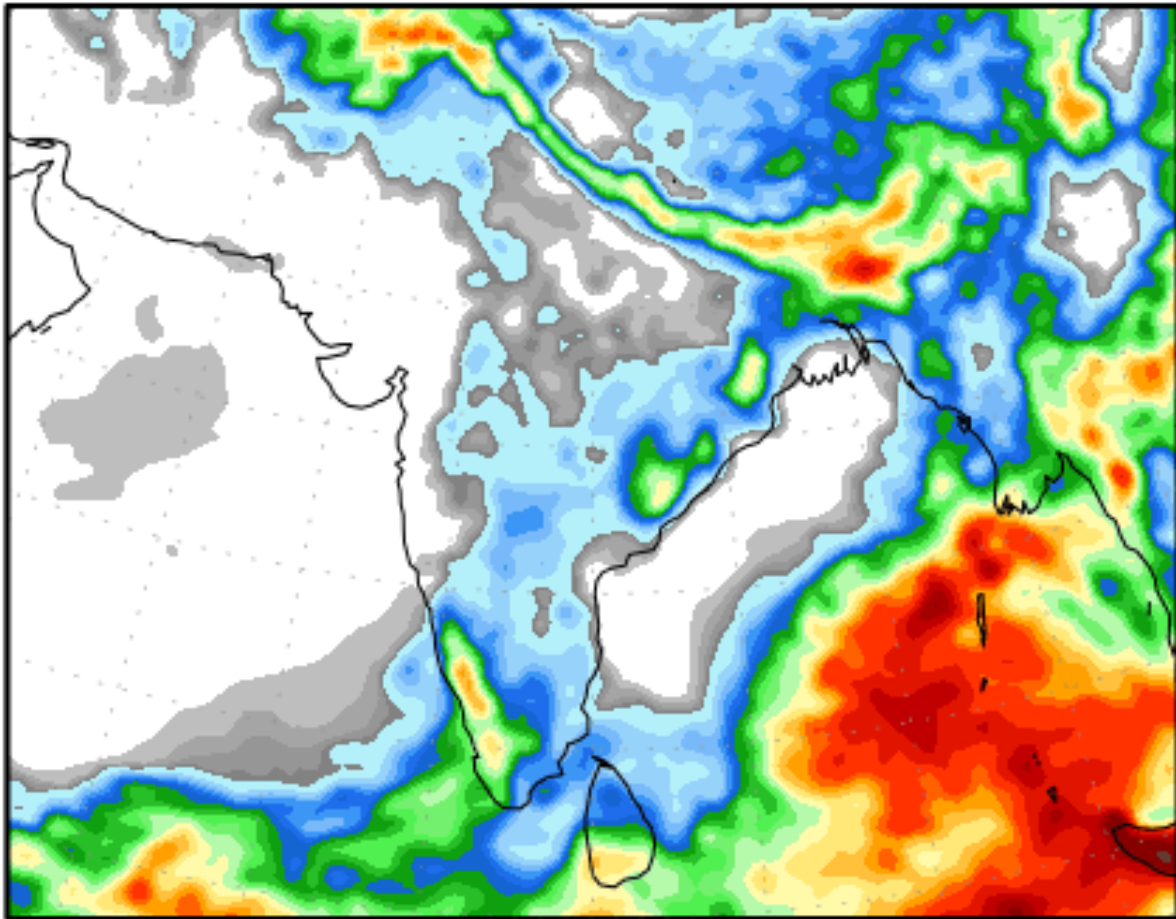
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08-05-2020/(0730 to 0757) GMT  
08-05-2020/(1300 to 1327) IST



IMD, DELHI

Figure: 1. Latest available satellite picture as on 08 May 2020 at 1327 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 08 to 16 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.*