

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

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

### **Daily Crop Weather Information as on 01 September 2020**

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

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

- The Low Pressure Area now lies over Pakistan & adjoining West Rajasthan. It is very likely become less marked during next 24 hours. The Western end of the Monsoon Trough at mean sea level lies near normal position and eastern end lies close to foothills of Himalayas.
- Under the influence of interaction between southwesterly Arabian Sea winds and mid-level westerly trough, Fairly widespread rainfall with Isolated heavy falls very likely over Northwest India and Western Himalayan Region during 02nd & 03rd September, 2020.
- Under the influence of strengthening of the north-south trough along the east coast, rainfall intensity over peninsular India is very likely to increase from today. South Interior Karnataka, Kerala and Tamil Nadu are very likely to receive Isolated Heavy to Very Heavy falls on 02nd & 03rd September, 2020.
- Enhanced Rainfall activity with heavy falls at isolated places also very likely over Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during next 2 days. Isolated heavy to very heavy falls over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim on today, 01st September and over Odisha on 02nd September 2020.
- Moderate thunderstorms with lightening very likely over Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hrs IST to 1730 hrs of yesterday): at most places over Gujarat Region and JammuKashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over West Rajasthan and at isolated places over Saurashtra & Kutch, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka, Coastal Andhra Pradesh & Yanam,

Odisha, SubHimalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hrs IST of today): at isolated places over Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Chhattisgarh, Odisha, West Rajasthan and Sub-Himalayan West Bengal & Sikkim.
- Maximum Temperature Departures as on 31-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Chhattisgarh; at a few places over East Madhya Pradesh, Telangana, Coastal Andhra Pradesh, Odisha, Jharkhand, Gangetic West Bengal and Kerala & Mahe and at isolated places over Vidarbha and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most palaces over Marathwada, Interior Karnataka and Bihar; at many places over East Uttar Pradesh; at a few places over Himachal Pradesh, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra and Andaman & Nicobar Islands and at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. They were markedly below normal (-5.0°C or less) at Many places over West Rajasthan; at a few places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Rajasthan and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.0°C was reported at Narsinghpur (East Madhya Pradesh).
- Minimum Temperature Departures as on 31-08-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal; at many places over Uttarakhand, Lakshadweep, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe; at a few places over Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands, Odisha and Coastal Andhra Pradesh & Yanam and at isolated places over Himachal Pradesh and Tamilnadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at a few places over Saurashtra & Kutch and at isolated places over Madhya Pradesh & East Rajasthan and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 17.8°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.

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

- 01 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim and heavy

rainfall at isolated places over Punjab, Rajasthan, Bihar, Gangetic West Bengal , Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Squally weather with wind (speed reaching 40-50 kmph) over South Andaman Sea & adjoining Equatorial Indian Ocean. Fishermen are advised not to venture into these areas.

- 02 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over Odisha, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and Heavy rainfall at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Andaman & Nicobar islands, Assam & Meghalaya, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Lakshadweep. Thunderstorm accompanied with lightning likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Rajasthan, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Squally weather with wind (speed reaching 40-50 kmph) over Southeast Arabian Sea and along & off Kerala and Lakshadweep coasts. Fishermen are advised not to venture into these areas.
- 03 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over South Interior Karnataka and Kerala & Mahe and Heavy rainfall at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, Andaman & Nicobar islands, Odisha, Madhya Maharashtra, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Rajasthan, East Madhya Pradesh, Vidarbha, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Squally weather with wind (speed reaching 40-50 kmph) over Southeast Arabian Sea and along & off Kerala and Lakshadweep coasts. Fishermen are advised not to venture into these areas.

- 04 September (Day 4): Heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 05 September (Day 5): Heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 01 to 09 Sep 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)**

### **Rajasthan**

#### **Weather condition:**

State: Moderate to heavy rainfall was recorded in the entire state during the week. Banswara received highest 203.8 mm rainfall followed by Pratapgarh (136.6 mm), Dungarpur (107.6 mm) and Jhalawar (80.2 mm) on 23.8.2020). At the center: center received 230.2 mm rainfall in six rainy days during the week. Maximum temperature ranged between 27.2 °C to 32.0 °C with mean 29.5 °C was normal and minimum temperature ranged between 20.0 °C to 22.0 °C with mean 20.9 °C was below 1.7 °C to normal. Wind velocity ranged between 2.4 to 8.4 with mean 4.7 and sunshine hours 0.9 to 6.1 with mean 2.3 hours. Mean evaporation o/f mm.

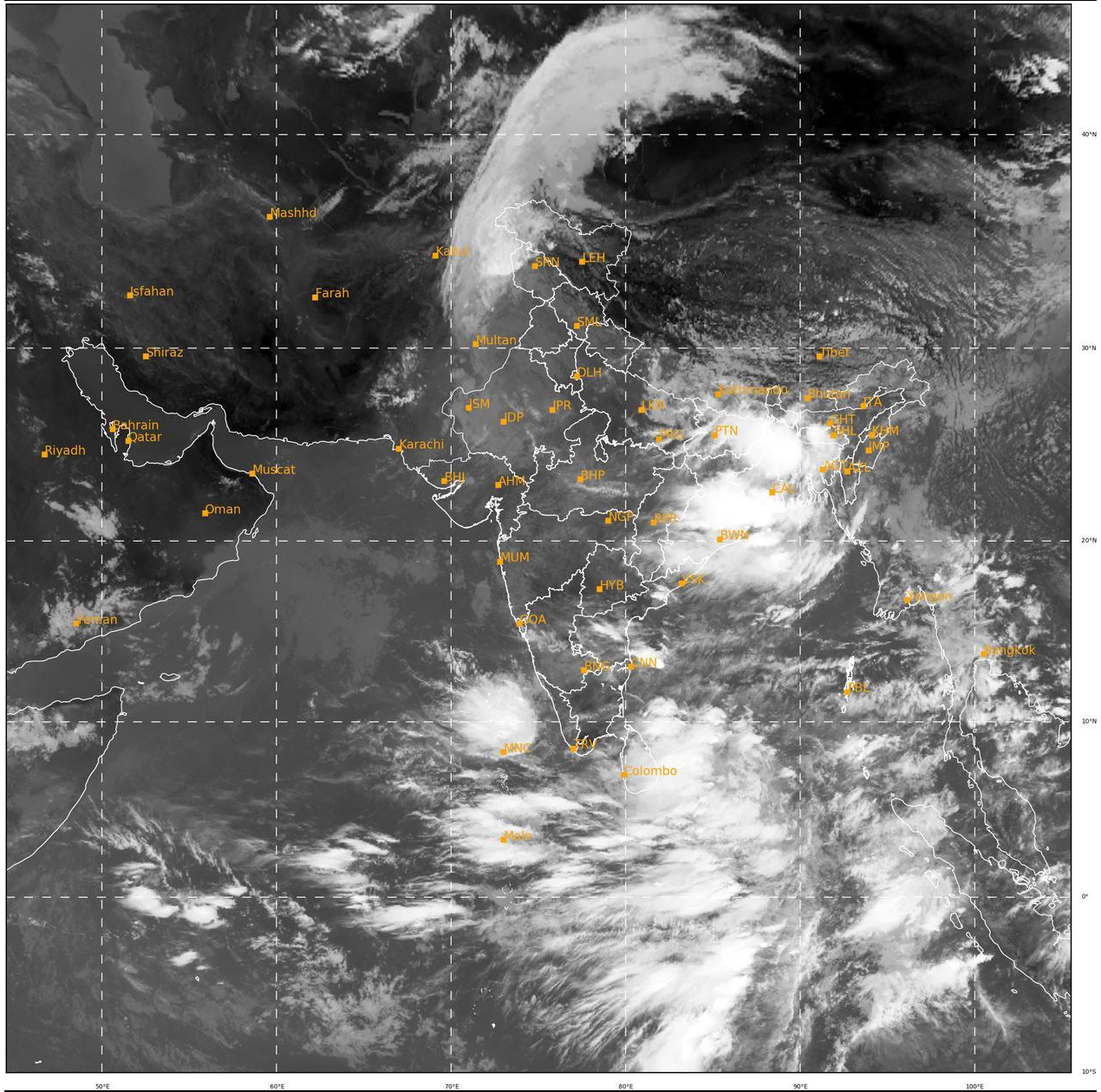
### Contingency measure:

- farmers are advised to make provision for drainage. Avoid top dress of urea in Maize. Foliar spray of Emamectin Benzoate 5 SG @ 0.4 g/l water should be done for the control of Fall Army Worm in maize. Spray should be done when sky is clear. Spray 0.5% Ferrous Sulphate (FeSO<sub>4</sub>) for the control of yellowing in crop. Avoid plant protection measures in cotton.
- Pest monitoring should be done, if population of insect above ETL farmers are advised to install pest specific pheromone traps in the fields for control of insect population. Calf and Milch animals should be tied under dry places. In rainy season, there is possibility of diarrhea in animals so feed dry roughage to protect the animals from diarrhea.
- Animal Husbandry: Avoid water logging in the premises of cattle shed. Take measures for avoid housefly and mosquito breeding.



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

01-09-2020/(0500 to 0526) GMT  
01-09-2020/(1030 to 1056) IST

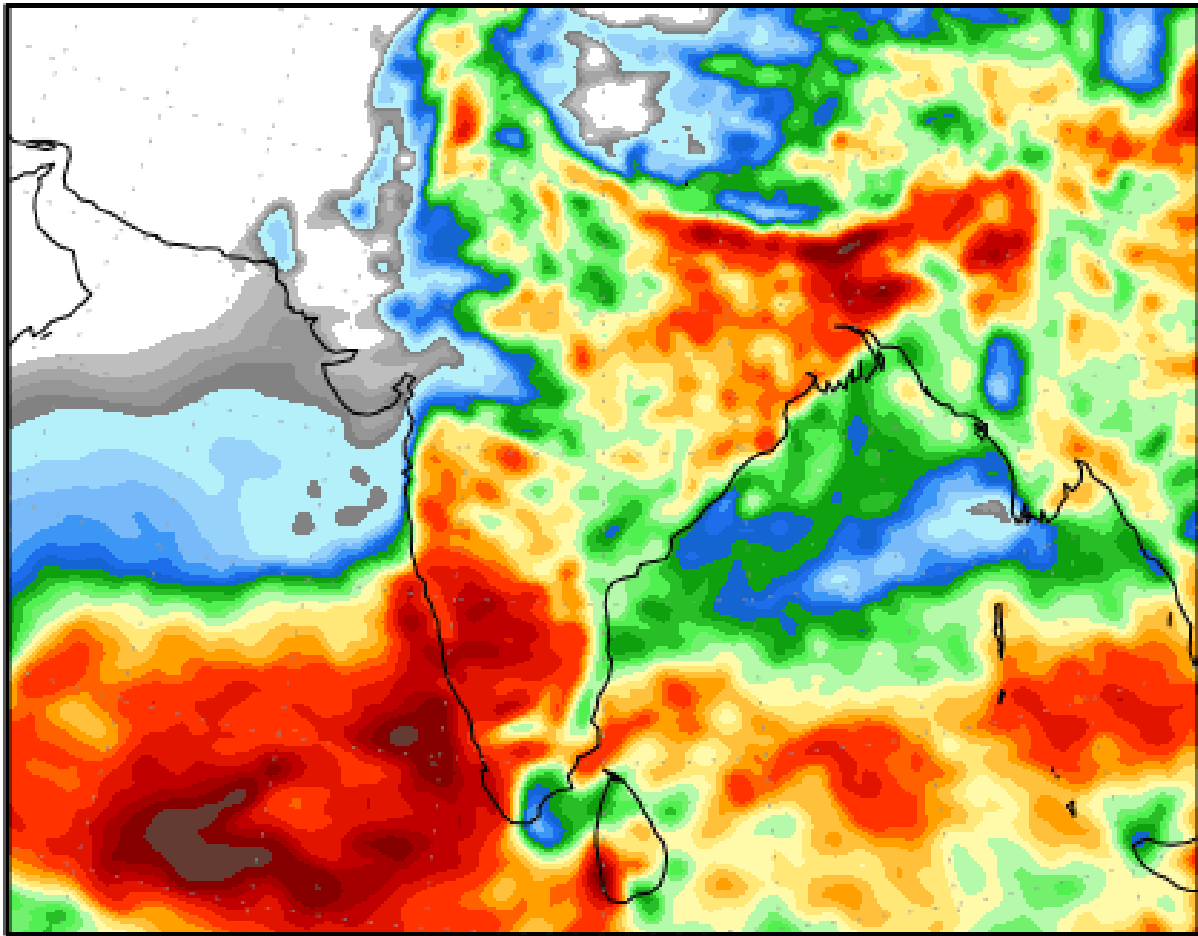


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IMD,DELHI

**Figure: 1. Latest available satellite picture as on 01 September 2020 at 1056 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 01 to 09 Sep 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.*