

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

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

### **Daily Crop Weather Information as on 21 September 2020**

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

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

- The Low Pressure Area lies over Northwest Bay of Bengal and adjoining north coastal Odisha. It is likely to move west-northwestwards during next 2-3 days.
- The western parts of the monsoon trough runs south of its normal position eastern parts runs near normal position and an east-west shear zone in midtropospheric level roughly along Lat. 17°N across Peninsular India tilting southwards with height. Under the influence of the above system: i) Fairly widespread to widespread rainfall with Isolated heavy to very heavy falls very likely over Coastal & North Interior Karnataka, Kerala & Mahe, Maharashtra, Odisha, West Bengal & Sikkim, Bihar, Jharkhand during next 2 days; over Interior Tamilnadu & South Interior Karnataka on 21th Sept; over Uttar Pradesh and adjoining East Rajasthan during 22nd-24th Sept, 2020. ii) Isolated extremely heavy rainfall also very likely over Coastal Karnataka, Odisha on 21st; over Konkan & Goa on 21st & 22nd; over Madhya Maharashtra and Sub-Himalayan West Bengal & Sikkim on 22nd; over East Uttar Pradesh on 23rd and over Assam & Meghalaya on 22nd & 23th Sept, 2020.
- Moderate thunderstorm with lightning very likely at isolated places over Madhya Pradesh, East Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Madhya Maharashtra and Meghalaya during next 12 hours.
- 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 Nagaland, Manipur, Mizoram & Tripura, Odisha, Marathwada, Vidarbha, Saurashtra & Kutch, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at many places over Arunachal Pradesh, West Bengal & Sikkim, Jharkhand, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Rayalaseema and Interior Karnataka; at a few places over Assam & Meghalaya, Bihar and Madhya Pradesh and at isolated places over East Uttar Pradesh and Rajasthan.

- Heavy to very heavy rainfall with extremely heavy falls observed at isolated places over Coastal Karnataka; Heavy to very heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam and Odisha and heavy rainfall at isolated places over Konkan & Goa, Lakshadweep, Agartala, East Rajasthan, Chhattisgarh, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over West Rajasthan, Gujarat State, Madhya Maharashtra, Marathwada, Telangana, Coastal Andhra Pradesh & Yanam, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Bihar, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand and Odisha.
- Maximum Temperature Departures as on 20-09-2020: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Assam & Meghalaya and at isolated places over Sub-Himalayan West Bengal & Sikkim; appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Punjab; above normal (1.6°C to 3.0°C) at many places over West Madhya Pradesh and Bihar; at a few places over Haryana, Chandigarh & Delhi, Rajasthan, East Madhya Pradesh, Chhattisgarh and Saurashtra & Kutch and at isolated places over Vidarbha and Madhya Maharashtra. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Coastal Karnataka; at a few places over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Rayalaseema and at isolated places over Odisha and Kerala & Mahe; below normal (-1.6°C to -3.0°C) at a few places over North Interior Karnataka and at isolated places over Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.9°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 21-09-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Haryana, Chandigarh & Delhi, Punjab, West Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim and at isolated places over Himachal Pradesh, Rajasthan and Uttarakhand; above normal (1.6°C to 3.0°C) at many places over Uttar Pradesh and Assam & Meghalaya; at a few places over East Madhya Pradesh, Madhya Maharashtra, Jharkhand and Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Gujarat State, Vidarbha and Gangetic West Bengal. They are below normal (-1.6°C to -3.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over

rest parts of the country. The lowest minimum temperature of 19.0°C reported at Khargone(West Madhya Pradesh) over the plains of the country.

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

- 21 September (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Coastal Karnataka; heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places over Odisha and Konkan & Goa; heavy to very heavy rainfall at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalaya West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and heavy rainfall at isolated places over East Uttar Pradesh, West Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Gujarat State, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana. Thunderstorm with lightning at isolated places very likely over Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra, Marathwada, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest, Southeast & Central Arabian Sea, Gulf of Mannar and along & off KeralaKarnataka-Goa-Maharashtra coasts and Lakshadweep area; South & adjoining Central & North Bay of Bengal and along & off West Bengal & Odisha coasts. Wave height (4.5 m) over Andaman Sea & Coastal Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.
- 22 September (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Sub-Himalaya West Bengal & Sikkim and Konkan & Goa; heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places over Assam & Meghalaya and Madhya Maharashtra; heavy to very heavy rainfall at isolated places over West Madhya Pradesh, Bihar, Odisha, Arunachal Pradesh, Gujarat Region and Coastal Karnataka and heavy rainfall at isolated places over Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Marathwada, North Interior Karnataka and Kerala & Mahe. Thunderstorm with lightning at isolated places very likely over Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim,

Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Telangana, Coastal Andhra Pradesh & Yanam and Interior Karnataka. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest, Southeast & Central Arabian Sea, Gulf of Mannar and along & off Kerala-Karnataka-Goa coasts and Lakshadweep area; (speed reaching 50-60 kmph) along & off Maharashtra coast and South & adjoining Central Bay of Bengal and along & off West Bengal & Odisha coasts. Fishermen are advised not to venture into these areas.

- 23 September (Day 3): Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places over East Uttar Pradesh and Assam & Meghalaya; heavy to very heavy rainfall at isolated places over West Uttar Pradesh, West Madhya Pradesh, Bihar, Sub-Himalaya West Bengal & Sikkim and Gujarat Region and heavy rainfall at isolated places over Uttarakhand, East Rajasthan, Arunachal Pradesh, Madhya Maharashtra, Konkan & Goa and Coastal & North Interior Karnataka. Thunderstorm with lightning at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Assam & Meghalaya, Telangana and Coastal Andhra Pradesh & Yanam. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 24 September (Day 4): Heavy to very heavy rainfall at isolated places over Bihar and heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Sub-Himalaya West Bengal & Sikkim, Assam & Meghalaya, Konkan & Goa, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning at isolated places very likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Odisha 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.
- 25 September (Day 5): Heavy to very heavy rainfall at isolated places over Sub-Himalaya West Bengal & Sikkim and Assam & Meghalaya and heavy rainfall at isolated places over East Uttar Pradesh, Bihar, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Thunderstorm with lightning at isolated places very likely over Uttar Pradesh, Odisha 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., 21 to 29 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)**

### **West Bengal**

#### **Weather condition:**

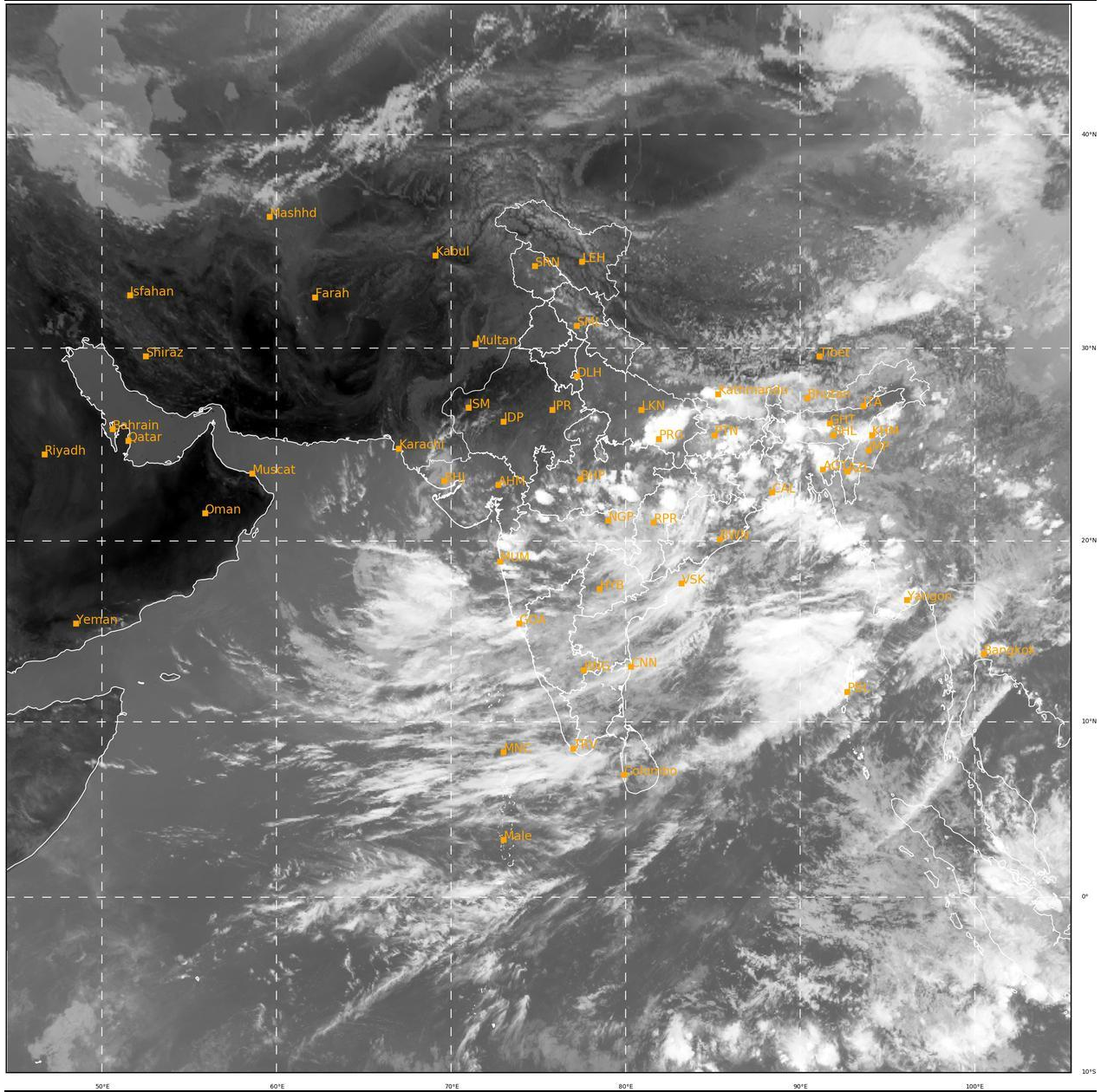
Weather conditions during the 37th week at Mohanpur, West Bengal: Maximum temperature:32.0 to 35.0 0C, minimum temperature: 26.0 to 27.3 0C, bright sun shine hours: 1.4 to 9.0 hours, Morning-time relative Humidity: 89 to 97%, after noon-time R.H: 65 to 97%, weekly total pan evaporation: 14.7 mm, total weekly rainfall: 20.2 mm and average daily wind speed is around 0.01 km/h.

#### **Contingency measure:**

- *Kharif* Rice- Rainfall is expected in coming days. At this stage, attack of Brown spot & Blast may be found. Apply Carbendazim + Mancozeb 2.5g/lit. of water at 10-12 days interval. Stem borer and rice hispa may also be found at this time. Apply Chlorapyriphos 2.5ml/ Triazophos 2ml per lit. of water.
- Cabbage & Cauliflower: Start seed sowing of early variety of cabbage (e.g. Pride of India, Pusa early, Kranti etc.) & cauliflower (e.g. Jawhar moti, Bharat Jyoti, Early banaras etc.) @ 4gm/ katha.
- Vegetables: Under high humidity and cloudy condition, combined attack of Downy mildew and Mosaic may be seen in bitter gourd and pointed gourd. Present temperature and humidity conditions are congenial for the rapid spread of thrips and mites leading to the leaf curling in chilli. As a control spray Diafenthuron @ 0.75g per litre of water at 7-10 days interval.

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

21-09-2020/(0830 to 0856) GMT  
21-09-2020/(1400 to 1426) IST

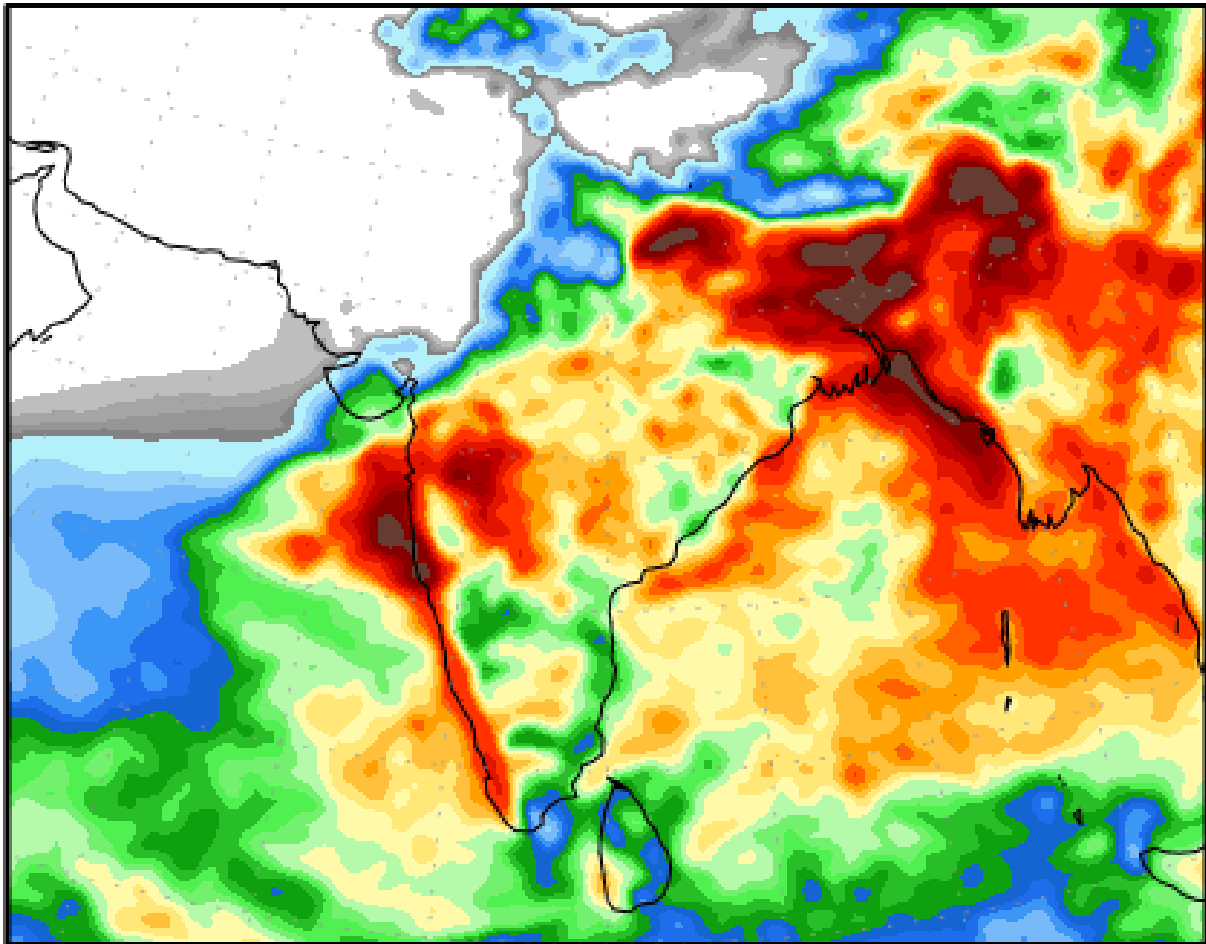


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**Figure: 1. Latest available satellite picture as on 21 September 2020 at 1526 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 21 to 29 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.*