

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

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

### **Daily Crop Weather Information as on 13 August 2020**

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

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

- A north-south trough runs from Bihar to Westcentral Bay of Bengal in lower tropospheric levels. A cyclonic circulation lies in the mid tropospheric levels over Northwest & adjoining Westcentral Bay of Bengal off Odisha-north Andhra Pradesh coasts.
- Under the influence of the above two systems, a low pressure area is likely to form over Northwest Bay of Bengal & neighbourhood by today, the 13th August. It is likely to persist over the region and become more organized over North Bay of Bengal during the subsequent 2-3 days.
- Western part of the monsoon trough has shifted to the north of its normal position and it is likely to remain there during next 48 hours. Eastern part of it is in its near normal position.
- Under the above scenario, (i) Fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over major parts of northwest India (Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh) during next 2-3 days. (ii) Fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over Gujarat state, East Rajasthan and parts of central India during next 48 hours. Isolated extremely heavy falls also likely over Gujarat state & East Rajasthan and isolated heavy to very heavy falls over northern parts of Konkan & Goa during next 72 hours.
- Moderate to Severe thunderstorm accompanied with lightning very likely at isolated places over East Rajasthan and Uttar Pradesh during next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hrs IST of yesterday): at most places over Vidarbha, Chhattisgarh, Gujarat Region, Coastal Karnataka ; at many places over East Uttar Pradesh, Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Saurashtra & Kutch, Madhya Maharashtra, Konkan & Goa, North Interior Karnataka; at a few places over Arunachal Pradesh, Sub-

Himalayan West Bengal & Sikkim, Uttrakhand, Odisha, Telangana, Marathawada and Andaman & Nicobar Islands and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Himachal Pradesh, West Uttar Pradesh, East Rajasthan, and Kerala & Mahe.

- Yesterday, Heavy to very heavy rainfall observed at isolated places over East Madhya Pradesh and heavy rainfall observed at isolated places over Konkan & Goa and Gangetic West Bengal.
- Thunderstorm observed (0830 hours IST of yesterday to 0530 hrs IST of today): at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Odisha, East Rajasthan, Gangetic West Bengal and Bihar.
- Maximum Temperature Departures as on 12-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad; at a few places over Himachal Pradesh; at isolated places over Odisha and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Haryana, Chandigarh & Delhi; at a few places over West Rajasthan, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe; at isolated places over Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Arunachal Pradesh, Coastal Andhra Pradesh and Telangana; below normal (-1.6°C to -3.0°C) at most places over Gujarat Region; at many places over Marathawada and East Madhya Pradesh; at a few places over Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim and Rayalaseema and at isolated places over West Madhya Pradesh, Bihar, Konkan & Goa, Madhya Maharashtra, Vidarbha and Andaman, Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.0°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 12-08-2020: Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Bengal & Sikkim and Andaman & Nicobar Islands; at a few places over Rajasthan, Jharkhand and West Madhya Pradesh and at isolated places over West Rajasthan, East Madhya Pradesh, Gujarat state, Vidarbha, Telangana, Bihar and Assam & Meghalaya. They were 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. Yesterday, the lowest

minimum temperature of 18.4°C was reported at Hassan(South Interior Karnataka) over the plains of the country.

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

- 13 August (Day 1): Heavy to very rainfall with extremely heavy falls very likely at isolated places over Gujarat region; Heavy to very heavy rainfall at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, ghat area of Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh and Telangana and heavy rainfall at isolated places over Himachal Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Chhattisgarh, Odisha, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka. Moderate to severe thunderstorm accompanied with lightning very likely at isolated places over Uttar Pradesh and East Rajasthan; thunderstorm accompanied with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura,, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & West Central Arabian Sea; (speed reaching 45-55 kmph) along & off Gujarat-Maharashtra-Goa coasts, Westcentral Bay of Bengal and along & off Andhra Pradesh coast and (speed reaching 40- 50 kmph) over Northeast and Eastcentral Arabian sea. Fishermen are advised not to venture into these areas.
- 14 August (Day 2): Heavy to very rainfall with extremely heavy falls very likely at isolated places over East Rajasthan and Gujarat state; Heavy to very heavy rainfall at isolated places over Konkan & Goa and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Chhattisgarh, ghat area of Madhya Maharashtra, Bihar, Jharkhand, Odisha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & West Central Arabian Sea; (speed reaching 45-55 kmph) along & off Gujarat-Maharashtra-Goa coasts, Westcentral Bay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal coasts and (speed reaching 40-50 kmph) over Northeast and Eastcentral Arabian sea. Fishermen are advised not to venture into these areas.

- 15 August (Day 3): Heavy to very rainfall at a few places with extremely heavy falls at isolated places likely over Saurashtra & Kutch; Heavy to very rainfall with extremely heavy falls at isolated places over East Rajasthan and Gujarat region; Heavy to very heavy rainfall at isolated places over Chhattisgarh, Jharkhand, Odisha, Gangetic West Bengal and Konkan & Goa and heavy rainfall at isolated places over Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, ghat area of Madhya Maharashtra, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh and Telangana. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & West Central Arabian Sea; (speed reaching 45-55 kmph) along & off Gujarat-Maharashtra-Goa coasts and along & off Odisha-West Bengal coasts and (speed reaching 40-50 kmph) over Northeast and Eastcentral Arabian sea. Fishermen are advised not to venture into these areas.
- 16 August (Day 4): Heavy to very rainfall with extremely heavy falls at isolated places likely over Saurashtra & Kutch; Heavy to very heavy rainfall at isolated places over Gujarat region, Chhattisgarh, Jharkhand and Konkan & Goa and heavy rainfall at isolated places over East Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Bihar, Odisha, Gangetic West Bengal, Andaman & Nicobar Islands, ghat area of Madhya Maharashtra, Marathawada, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, Telangana, Coastal & South Interior Karnataka. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & West Central Arabian Sea and (speed reaching 45-55 kmph) along & off Gujarat-Maharashtra-Goa coasts. Fishermen are advised not to venture into these areas.
- 17 August (Day 5): Heavy to very rainfall with extremely heavy falls at isolated places likely over Saurashtra & Kutch; Heavy to very heavy rainfall at isolated places over Gujarat region, Chhattisgarh, Jharkhand and Konkan & Goa and heavy rainfall at isolated places over East Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Bihar, Odisha, Gangetic West Bengal, Andaman & Nicobar Islands, ghat area of Madhya Maharashtra, Marathawada, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, Telangana, Coastal & South Interior Karnataka. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & West Central Arabian Sea and (speed reaching 45-55 kmph) along & off Gujarat-Maharashtra-Goa coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 13 to 21 Aug 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)**

### **Maharashtra**

#### **Weather condition:**

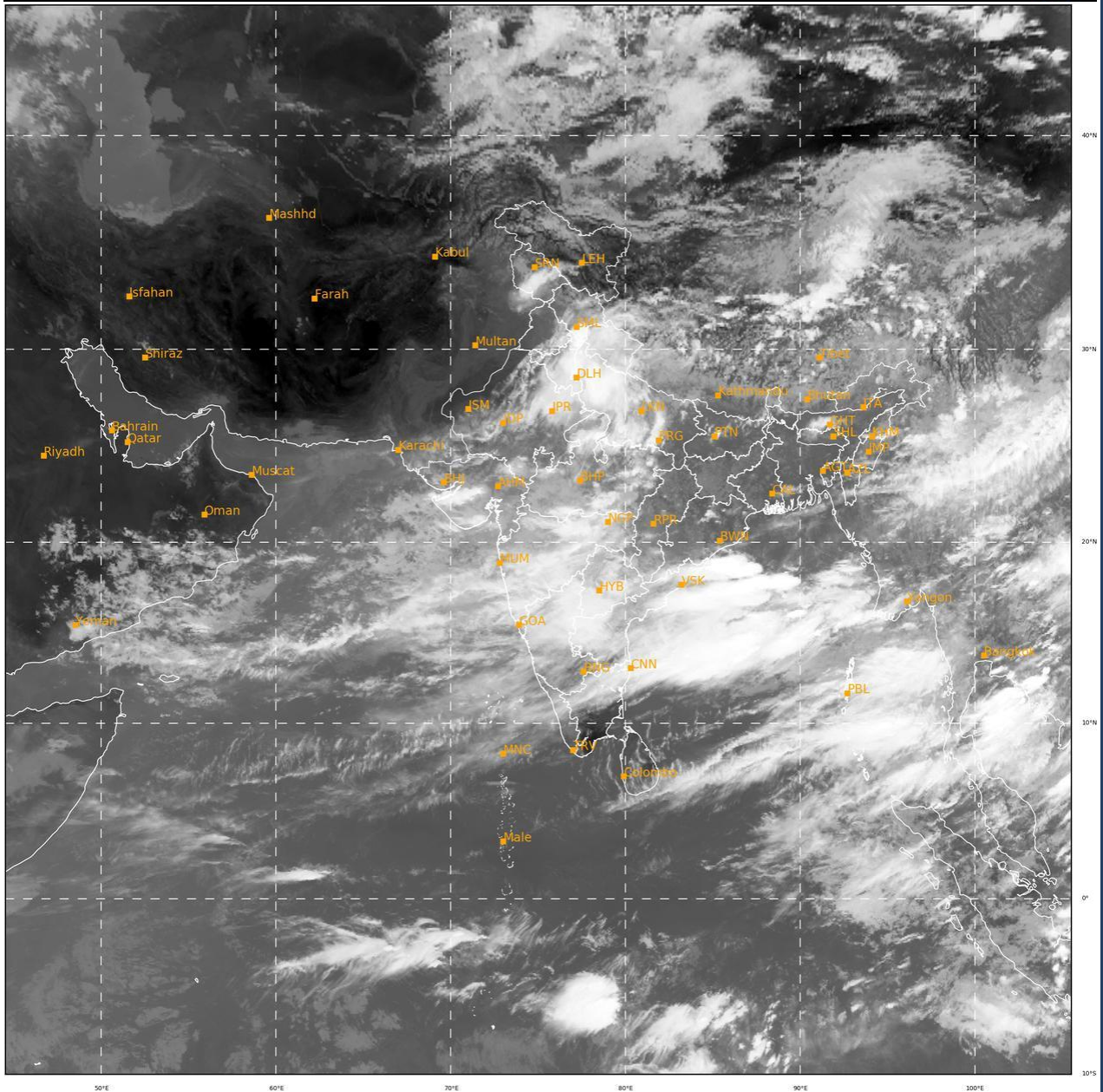
Atmospheric condition was clear during morning hours around Dapoli during last week. Therefore 0.0 to 1.5 of Bright sunshine hours was recorded during last week. During last week 381.6 mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 26.8 to 29.5 and 22.1 to 24.5 °C respectively. Wind velocity ranged from 6.2 to 14.7 km and wind was blowing from easterly direction.

#### **Contingency measure:**

- General Advice: Light rainfall is likely to occur in the eastern part of the state. Keep proper drainage in all crops except rice.
- Soybean: In areas where there is excessive rains, do not let the standing water in the soybean field. To control mosaic in soybean uproot and burn affected plants and spray imidacloprid (17.8 SL ) @ 300 ml or thiamethoxem 250 gm dissolve in 500 liters of water per hectare to check white fly. At places where the girdle beetle and bihar hairy cater pillar has started, solution of trophophos 40 EC @ 800 ML or profenophos 1.0 liters or coragen @150 ml per hectare in 500 liters of water, should be sprayed. For more information contact the nearest Krishi Vigyan Kendra.
- Rice: Use cono weeder to control weeds an standing water. To conserve rain water, make bunds around the fields of rice.
- Pigeonpea: Control the weeds in the field by the hand hoe, for trassy wads whip super or Targa super can be used. Arrangements for drainage as required in fields
- Sugarcane: Sugarcane crop tied the plants with each other so as to avoide lodging.
- Fruit tree. Clean the gardens and remove the weed.Make basins for lemon and guava and use compost and fertilizer as per recommendation.
- Vegetables: Use of systemic insecticides for control of fruit borer in eggplant, tomatoes and okra. Drain the turmeric and ginger fields properly. Preparation for nursery for early season rabi vegetables. Spray of propinaphos @ of 2 ML per leter water to control the insect.
- Animal Husbandry & Poultry: Keep animals and chickens in the shed and arrange for pure water. Regular clean water for milch cows and save from mosquitoes and for various diseases.

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

13-08-2020/(0600 to 0627) GMT  
13-08-2020/(1130 to 1157) IST

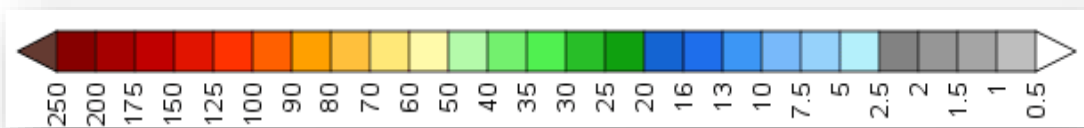
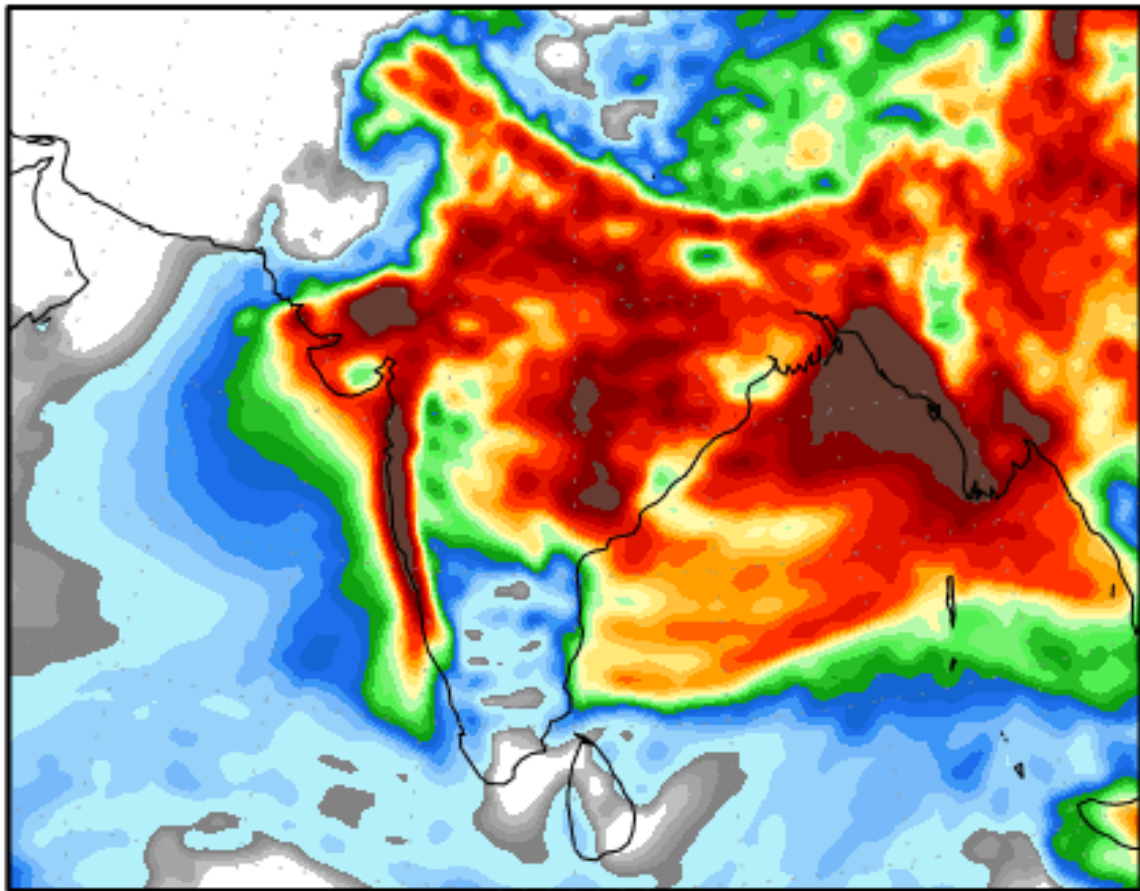


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 13 August 2020 at 1137 Hrs (IST).  
(Source: IMD).



**Figure:2. Precipitation forecast for 13 to 21 Aug 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.*