

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

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

### **Daily Crop Weather Information as on 26 August 2019**

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

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

- The monsoon trough is active with embedded cyclonic circulation over north Odisha & neighbourhood. Its western part is likely to remain to the south of its normal position during next 3 days.
- A fresh low pressure area is likely to develop over north Bay of Bengal & neighbourhood around 28th August.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy falls with extremely heavy falls very likely over Gujarat and heavy to very heavy falls over Odisha, Jharkhand, Chhattisgarh, Vidarbha, Madhya Pradesh and Rajasthan during next 48 hours.
- The images showing the latest satellite picture in figure. 1

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

- Rain/Thunder showers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Jharkhand, Odisha, Vidarbha, Konkan & Goa, Kerala & Mahe and Lakshadweep; at many places over Andaman, Nicobar Islands, Jammu & Kashmir, East Uttar Pradesh, East Rajasthan, Gangetic West Bengal, Chhattisgarh and Coastal Karnataka; at a few places over Punjab, Haryana, Chandigarh & Delhi, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka, Telangana and Tamil Nadu, Puducherry & Karaikal and at isolated places over West Rajasthan, Gujarat region, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, Odisha, Bihar, Chhattisgarh, Assam & Meghalaya, Gangetic West Bengal, Madhya Pradesh and Telangana.

- Maximum temperature departures as on 25-08-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Arunachal Pradesh, Assam & Meghalaya and West Rajasthan; at isolated places over Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu & Kashmir, Gujarat State, Madhya Maharashtra and Konkan Goa; at isolated places over Karnataka, Telangana, Rayalaseema, Marathwada, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Vidarbha; at a few places over West Madhya Pradesh and Andaman & Nicobar Islands; at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Odisha and at isolated places over West Uttar Pradesh, Bihar and Chhattisgarh and near normal over rest parts of the country.
- Minimum temperature departures as on 26-08-2019: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir, West Rajasthan, Gujarat region and Sub- Himalaya West Bengal & Sikkim; at a few places over Assam & Meghalaya, Vidarbha and Coastal Andhra Pradesh & Yanam; at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, East Rajasthan, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at a few places over Madhya Pradesh and Lakshadweep and at isolated places over Uttar Pradesh, Madhya Maharashtra, Marathwada and Telangana and near normal over rest parts of the country.

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

- 26 August (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Gujarat region; Heavy to very heavy rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Odisha and Andaman & Nicobar Islands; Heavy Rainfall at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Saurashtra & Kutch, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea and Odisha coast. Squally weather is likely to prevail over east-central Bay of Bengal & adjoining north Andaman Sea and Gulf of Mannar & adjoining south Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- 27 August (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Gujarat region; Heavy to very heavy rainfall at isolated places over East Rajasthan; Heavy Rainfall at isolated places over Uttarakhand, West Rajasthan, West Madhya Pradesh, Andaman & Nicobar Islands, Saurashtra & Kutch,

Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over southwest Arabian Sea off Somalia coast and west-central Arabian Sea and Odisha coast. Squally weather is likely to prevail over east-central Bay of Bengal & adjoining north Andaman Sea and Gulf of Mannar & adjoining south Tamil Nadu coast. Fishermen are advised not to venture into these areas.

- 28 August (Day 3): Heavy to very heavy rainfall at isolated places over Saurashtra & Kutch; Heavy Rainfall at isolated places over Himachal Pradesh, Uttarakhand, West Rajasthan, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Konkan & Goa, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over southwest Arabian Sea off Somalia coast, west-central Arabian Sea and central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 29 August (Day 4): Heavy rainfall likely at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Chhattisgarh, Sub-Himalayan West Bengal, Odisha, Saurashtra & Kutch, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe. Strong winds, speed reaching 40-50 kmph, are very likely to prevail over central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 30 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Odisha, and Heavy Rainfall at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe. Strong winds, speed reaching 40-50 kmph, are very likely to prevail over central Bay of Bengal. Fishermen are advised not to venture into this areas.
- The weather outlook for the period of seven days *i.e.*, 26 August to 03 September 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Pradesh, Odisha, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka, Coastal & South Interior Karnataka, Kerala, Tamil Nadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### Himachal Pradesh

#### Weather condition:

Very light to heavy rainfall is received in Himachal Pradesh state during past few days. The maximum temperature was ranged between 16-20°C and minimum temperature was ranged between 18 - 19°C.

#### Contingency measure:

- **KHARIF CROP:** Farmers are advised to make bund for conserving rain water in the field. Bund should be higher and wider so that more rain water can be conserved in the field. Monitoring paddy against attack of blast and brown spot is advised. Spraying of Carbendazim @ 2.0 gram per litre of water is advised. Sometimes, in the paddy nursery, if upper leaves of the paddy seedlings become yellow and lower leaves remain green, it indicates the iron deficiency. Spraying of ferrous sulphate @ 0.5 % with 0.25% lime solution is recommended to overcome this problem. Rice hispa is expected in rice fields, for management clear the grasses from bunds or spray cypermethrin 10Ec (1ml /litres) or chloropyriphos 20 EC (2.5ml /litres) of water. Rice leaf folder is also appearing for control spray chloropyriphos 20 EC (2.5ml /litres) of water. In Maize stalk rot is expected in this weather for control drench maize fields with bleaching powder @16 kg/ha a week before tasseling. In Maize stem borer is expected, for control put pinch of thimate granules in affected plant.
- **PULSES:** Ensure drainage in fields and weed free. Ensure drainage in fields and weed free. Hairy caterpillar is also appearing in mash and til crops for control spray cypermethrin 25 EC (0.5 ml/litres of water. In soybean, moong, urd crops regularly, if white flies or sucking pests seen, spraying of Imidacloprid 17.8 % SC @ 1.0 ml / 3 litre of water or thiamethoxam 25 WG @40 gram/acre is recommended when sky remain clear.
- **STORED GRAINS:** Weather is conducive for attack of stored grains pests like rice weevil, lesser grain borer and rice moth. In Grain store bins put one pouch of celhpos (3g) or quickphos (12g) or Fumino pouch in a wet cloth in the middle of bin and keep the bin airtight for some time.
- **FODDER CROPS:** In mid hill region root slips of setaria, hathi grass may be planted in grasslands.

- **VEGETABLE CROPS:** Ensure proper drainage in field in view of rainfall. Farmers are advised to monitor their fields regularly. Spray of Imidacloprid 17.8 % SC@ 1.0 ml / 3 lit of water is recommended against white flies and other sucking pests in all crop and vegetables when sky is clear. In tomato brinjal, chilli and capsicum crops, apply dose of urea with interacultural operation. For shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. Also install pheromone trap @25 per hectare If pest population is high, spraying of spinosad 48 EC @ 1 ml /4 litres of water is advised when sky is clear. In present weather conditions, rouging of viral infested crop should be done in chilli. Infected crop should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 0.3 ml per litre of water is advised to control the vector.
- **ROOT CROPS:** In mid hill region, advised nursery sowing of Chinese cabbage and direct sowing of radish, carrot, broccoli, lettuce.
- **FRENCH BEAN AND OKRA:** After harvesting of mature lady finger application of urea @ 5-10 kg/acre and thereafter application of light irrigation is advised. In sub tropical climate mite and jassid are expected in lady chilli and cucurbitaceous, for control spraying of phosmite @ 1.5 - 2 ml per litre of water is advised to control mite and spraying of Dimethoate 30 EC @ 2 ml/litre of water is advised against jassid, when sky is clear.
- **POLY HOUSE AGRICULTURE:** Keep the open top and side bent on clear day and close on rainy day. Advised sowing and transplanting of tomato and capsicum. For control of Powdery mildew, Aphids and spodopetra spray recommended chemicals. Ensure drainage near polyhouses. One week before sowing of crops, keep yellow sticky trap in polyhouse and after transplanting drench plant with amidochloropid.
- **TEA:** Continue picking in tea at 8-10 days interval to maintain the quality and productivity. Lopping of shade tress advised in tea orchards. Plucking of tea leaves can be continued at 8-10 days interval. Milli bug is appearing in the orchards, for control spray Deltamethrin (Decis 2.8EC @1340ml in 750 litres of water for one hectare. For the control of mites spray recommended chemicals. Spray immediately after plucking.
- **LIVESTOCK:** Consult veterinary doctor for FMD Vaccination. Give mixture of hay & green fodder. Weather is conducive for ticks and mites attack on animals. For control spray Butox @ 2.0 ml per litres of water. Add mineral mixture in dry hay for feeding to animals in these days. Ensure clean drinking water to animals in monsoon season. Don't allow water to stagnate in cowsheds. Advised not to allow animals to eat lantana these days.

- FLORICULTURE: Blue beetle attack is seen in Balsam, Zenia, cleome and rose, for control spray cypermethrin 20 ml in 10 litres of water. In poly house s attack of thrips and mites is expected for control spray rogor 20 ml in 10 litres of water for thrips and for beetle spray diclofol 20 ml in 10 litres of water. To control thrips in tagets spray Rogor 20 ml in 10 litres of water.

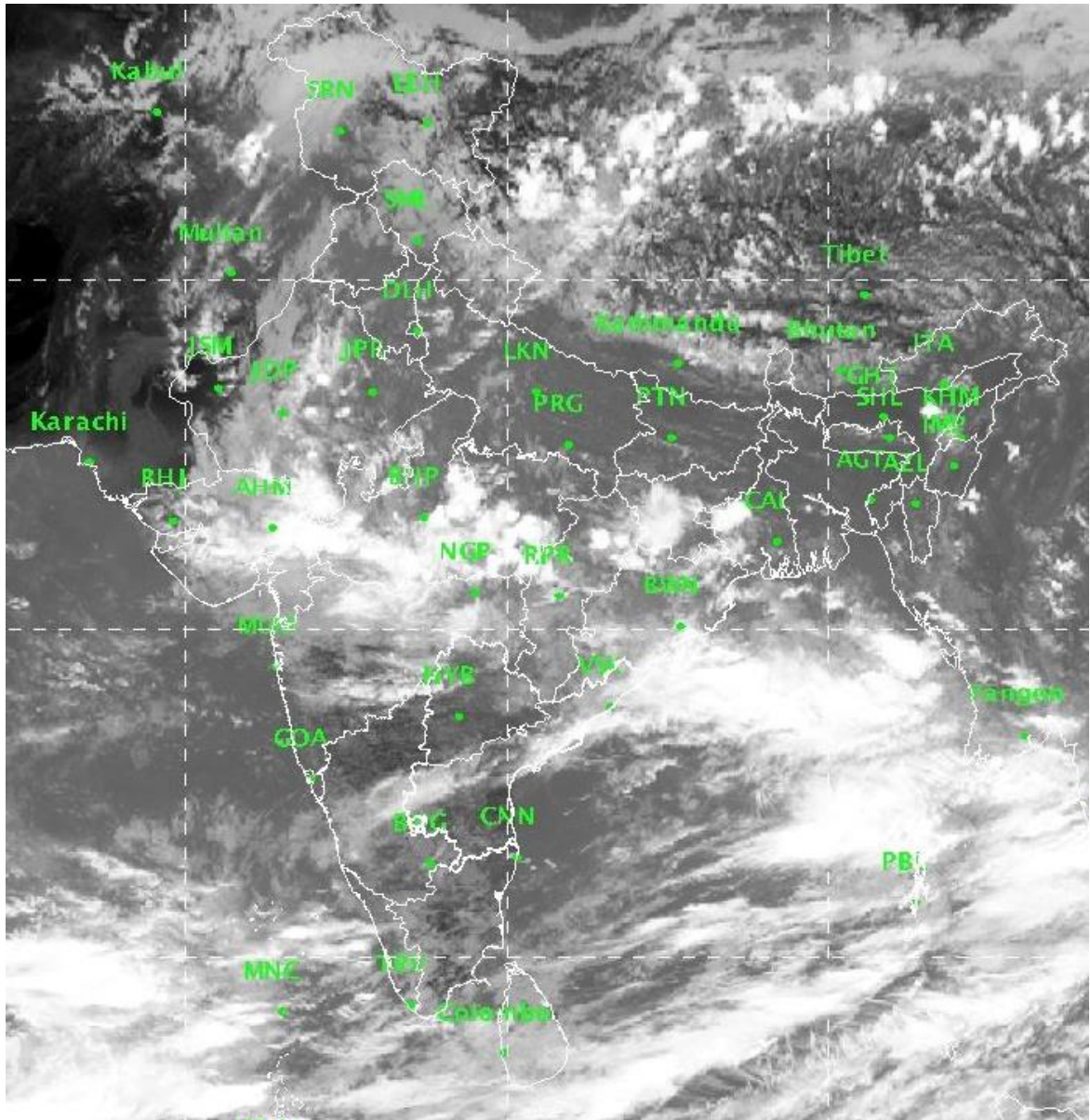
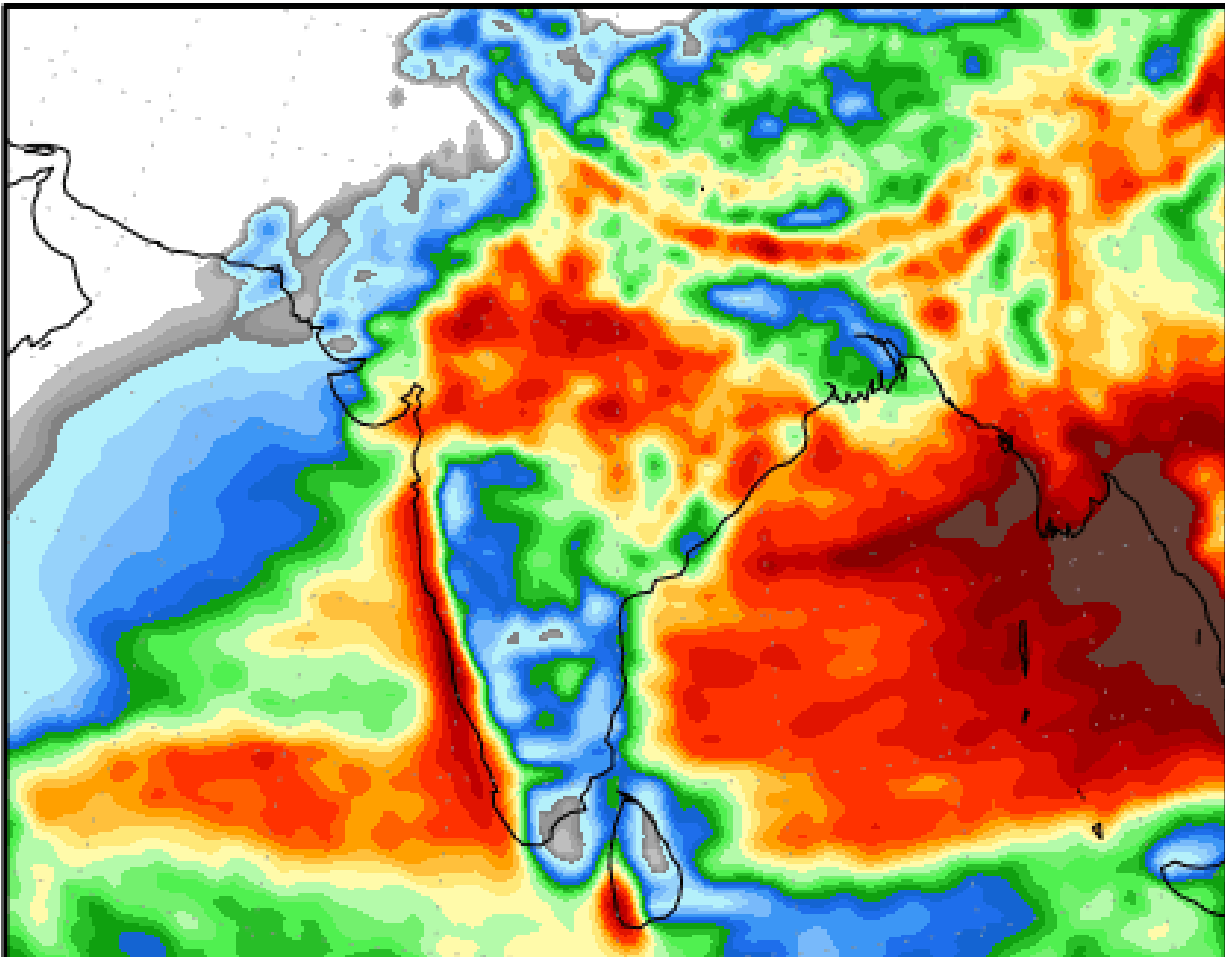


Figure: 1. Latest available satellite picture as on 26 August 2019 at 1300Hrs (IST).

(Source: IMD).



**Figure:2. Precipitation forecast for 26 August to 03 September 2019 (Source: NOAA NCEP).**