

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 19 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Well Marked Low Pressure Area lies over Northwest Bay of Bengal & neighbourhood with associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height. It is very likely to move westwards gradually and concentrate into a Depression during next 24 hours. Under the influence of this system: i) Widespread rainfall with isolated heavy to very heavy falls very likely over Gujarat state, Maharashtra & Goa, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha and Vidarbha during next 4-5 days. ii) Isolated extremely heavy falls are likely over southwest Odisha on 19th; Chhattisgarh on 19th & 20th; East Madhya Pradesh on 20th; West Madhya Pradesh on 21st & 22nd; East Rajasthan on 22nd and Gujarat State on 22nd & 23rd August, 2020.
- The monsoon trough is active and lies close to its normal position. It is very likely to shift southwards during next 24 hours and remain active during next 5 days. There is convergence of strong moist southwesterly winds from the Arabian Sea over plains of Northwest India and Central India at lower levels and likely to continue during next 3-4 days. Under the influence of this system: i) Fairly widespread to widespread rainfall activity with Isolated heavy falls very likely over northwest India including Western Himalayan region till 20 August, 2020 and decrease thereafter. ii) Isolated heavy to very heavy rainfall also very likely over Jammu Division on 19th; Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi on 19th & 20th and West Uttar Pradesh on 19th August, 2020.
- Moderate to severe thunderstorm accompanied with lightning at isolated places very likely over Uttarkhand, Uttar Pradesh and East Rajasthan 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 hrs IST of today): at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Gujarat State, Odisha, Coastal & North Interior Karnataka, Konkan & Goa, Gangetic West Bengal, Arunachal Pradesh, Chhattisgarh, Vidarbha, Telangana; at many places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Rayalseema, Kerala & Mahe, SubHimalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Madhya Maharashtra, and Marathwada; at a few places over Punjab, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; and at isolated places over West Rajasthan.
- Extremely heavy rainfall observed at isolated places over East Madhya Pradesh; heavy to very heavy rainfall over Gangetic West Bengal and heavy rainfall over Himachal Pradesh, Uttarakhand, Konkan & Goa, Madhya Maharashtra, Jharkhand and Odisha.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hrs IST of today): at a few places over isolated places over Gangetic West Bengal & Odisha and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Uttar Pradesh, Chhattisgarh, S Haryana, Chandigarh & Delhi, Madhya Pradesh, Gujarat State, Coastal Andhra Pradesh & Yanam and Jharkhand.
- Maximum Temperature Departures as on 18-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, South Interior Karnataka; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over West Uttar Pradesh, West Rajasthan, Jharkhand and Kerala & Mahe; at a few places over East Rajasthan, Gangetic West Bengal, Andaman & Nicobar Islands, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal and at isolated places over Haryana, Chandigarh & Delhi and Coastal Andhra Pradesh & Yanam. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at most places over Vidarbha; at many places over West Madhya Pradesh; at a few places over Arunachal Pradesh, Assam & Meghalaya, Gujarat state, Madhya Maharashtra and Marathwada; at isolated places over Chhattisgarh and Odisha and near normal over rest parts of

the country. Yesterday, the highest maximum temperature of 39.0°C was reported at Phalodi (West Rajasthan).

- Minimum Temperature Departures as on 19-08-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Himachal Pradesh and at isolated places over East Rajasthan; above normal (1.6°C to 3.0°C) at most places over Punjab, West Rajasthan and Bihar; at many places over Haryana, Chandigarh & Delhi, Jharkhand, Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at a few places over Lakshadweep; at isolated places over Saurashtra & Kutch, East Rajasthan, East Uttar Pradesh, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Telangana; below normal (-1.6°C to -3.0°C) at isolated places over Madhya Pradesh, Vidarbha, Odisha and Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C was reported at Medak (Telangana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 19 August (Day 1): Heavy to very rainfall with extremely heavy falls at isolated places very likely over Chhattisgarh and Odisha; heavy to very heavy rainfall at a few places over Uttarakhand and at isolated places over Jammu region, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Telangana; and heavy rainfall at isolated places over East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Marathwada and Coastal Karnataka. Moderate to severe thunderstorm accompanied with lightning at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and East Rajasthan; thunderstorm accompanied with lightning at isolated places over SubHimalayan West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally Weather with wind speed reaching 45-55 kmph over Gujarat-Maharashtra-Goa coasts; Northwest & Westcentral Bay of Bengal and along & off Odisha West Bengal - Andhra Pradesh coasts. Fishermen are advised not to venture into these area.
- 20 August (Day 2): Heavy to very rainfall with extremely heavy falls at isolated places very likely over East Madhya Pradesh and Chhattisgarh; heavy to very

heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra and Konkan & Goa; and heavy rainfall at isolated places over Uttar Pradesh, East Rajasthan, West Madhya Pradesh, West Bengal & Sikkim, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Coastal Karnataka. Moderate to severe thunderstorm accompanied with lightning at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and East Rajasthan; thunderstorm accompanied with lightning at isolated places over Sub-Himalayan West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally Weather with wind speed reaching 45-55 kmph over Gujarat-Maharashtra-Goa coasts; Northwest & Westcentral Bay of Bengal and along & off Odisha West Bengal -Andhra Pradesh coasts. Fishermen are advised not to venture into these area.

- 21 August (Day 3): Heavy to very rainfall at a few places with extremely heavy falls at isolated places likely over West Madhya Pradesh; Heavy to very heavy rainfall at isolated places likely over East Rajasthan, East Madhya Pradesh, Gujarat State, Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over East Uttar Pradesh, West Rajasthan, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Marathwada. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally Weather with wind speed reaching 45-55 kmph over Gujarat-Maharashtra-Goa coasts. Fishermen are advised not to venture into these area.
- 22 August (Day 4): Heavy to very rainfall at a few places with extremely heavy falls at isolated places likely over Gujarat Region; heavy to very heavy rainfall with extremely heavy falls at isolated places over Saurashtra & Kutch, East Rajasthan, West Madhya Pradesh and Konkan & Goa; heavy to very heavy rainfall at isolated places over West Rajasthan and heavy rainfall at isolated places over East Uttar Pradesh, Odisha, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally Weather with wind speed reaching 45-55 kmph over Gujarat-Maharashtra-Goa coasts. Fishermen are advised not to venture into these area.

- 23 August (Day 5): Heavy to very rainfall at a few places with extremely heavy falls at isolated places over Saurashtra & Kutch; Heavy to very rainfall with extremely heavy falls at isolated places over Gujarat region and Konkan & Goa and heavy rainfall at isolated places over East Uttar Pradesh, Rajasthan, Bihar, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally Weather with wind speed reaching 45-55 kmph over Gujarat-Maharashtra-Goa coasts. Fishermen are advised not to venture into these area.
- The weather outlook for seven days i.e., 19 to 27 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)

Assam

Weather condition:

Weather during the last week was partially cloudy. Daily average maximum temperature was 33.7°C which was 1.1 above normal for the wind speed 1.0 kmph. Daily average RH during morning and afternoon hour was 91.6% and 70.7% respectively.

Contingency measure:

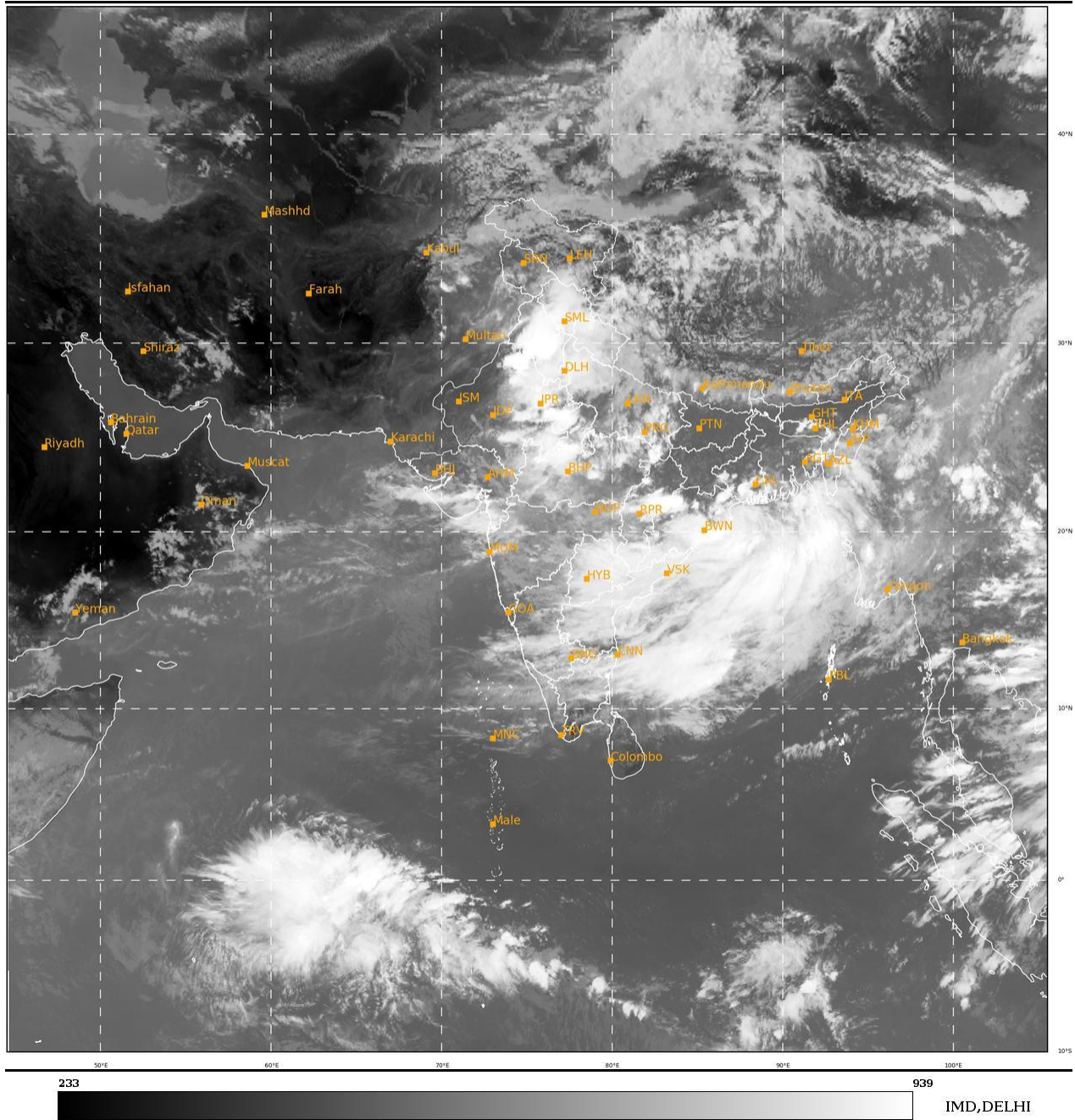
- Sali rice:- Farmers from the flood affected areas are advised to continue the transplanting of Sali rice seedlings in the main field as flood recession was reported in most of districts. However, the region where flood is not a constraint, farmers may go for weeding and renovation of dykes. Again, due to favorable weather infestation of case worm may be observed at tillering stage in Sali rice crop field. To control this pest, spray Quinalphos 25EC @ 1ml/lit of water during rain free weather. If, symptoms of blast diseases are found appearing in the top five leaves of the hills covering nearly 5% of the area, go for spray of Carbendazim @ 1g/lit water followed by subsequent two spraying of ediphenphos @1 ml/lit water at PI and PE stage of rice. To control stem borer pest; spray Quinalphos 25EC @ 1ml per lit. of water. Since, continuous light ot moderate level of rainfall was predicted during the coming

5 days, spraying may be done depending upon the real time weather situation only or may be postpone till weather become favorable.

- Plantation crop (Various):- Maintain proper drainage facility in coconut, citrus, papaya, banana and other vegetable orchard to drain out excess amount of water from the crop field. Timely weeding in orchard helps in checking weed growth and enhances crop growth and development. In citrus, proper disposal of the fallen fruits helps in reducing the infestation of the Fruit sucking moth. To control mosaic and leaf curl disease in papaya crop, rogue out the affected plants and spray Malathion 0.1% solution. Avoid application of chemical during cloudy days.
- Okra (rainy season crop):- Farmers cultivating rainy season okra crop may select Pusa Sawani, Arka Anamika and Parbhani Kranti etc. which are tolerant / resistant to YMV or other local varieties. Sowing of seeds may be completed within this week. For rainy season crop, planting distance of 45cmX30cm should be maintained. Pre-sowing soaking of seeds in water for 24 hours, enhances germination percentage of the seeds. After sowing in the pit, covered with sand or FYM. Again, the crop sown during the spring-summer season is ready for the harvest. Fruit should be picked up at an interval of 4-5 days.
- Fisheries (various):- Protect the fisheries from intrusion of flood water and unwanted species of fishes by putting nylon net or other obstructions structures around the unit. After recession of floods, go for removal of unwanted weeds and fishes from the pond. Again, stirring of water with a bamboo pole will also help in increasing the amount of dissolve oxygen in the pond.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

19-08-2020/(0900 to 0926) GMT
19-08-2020/(1430 to 1456) IST



**Figure: 1. Latest available satellite picture as on 19 August 2020 at 1456 Hrs (IST).
(Source: IMD).**

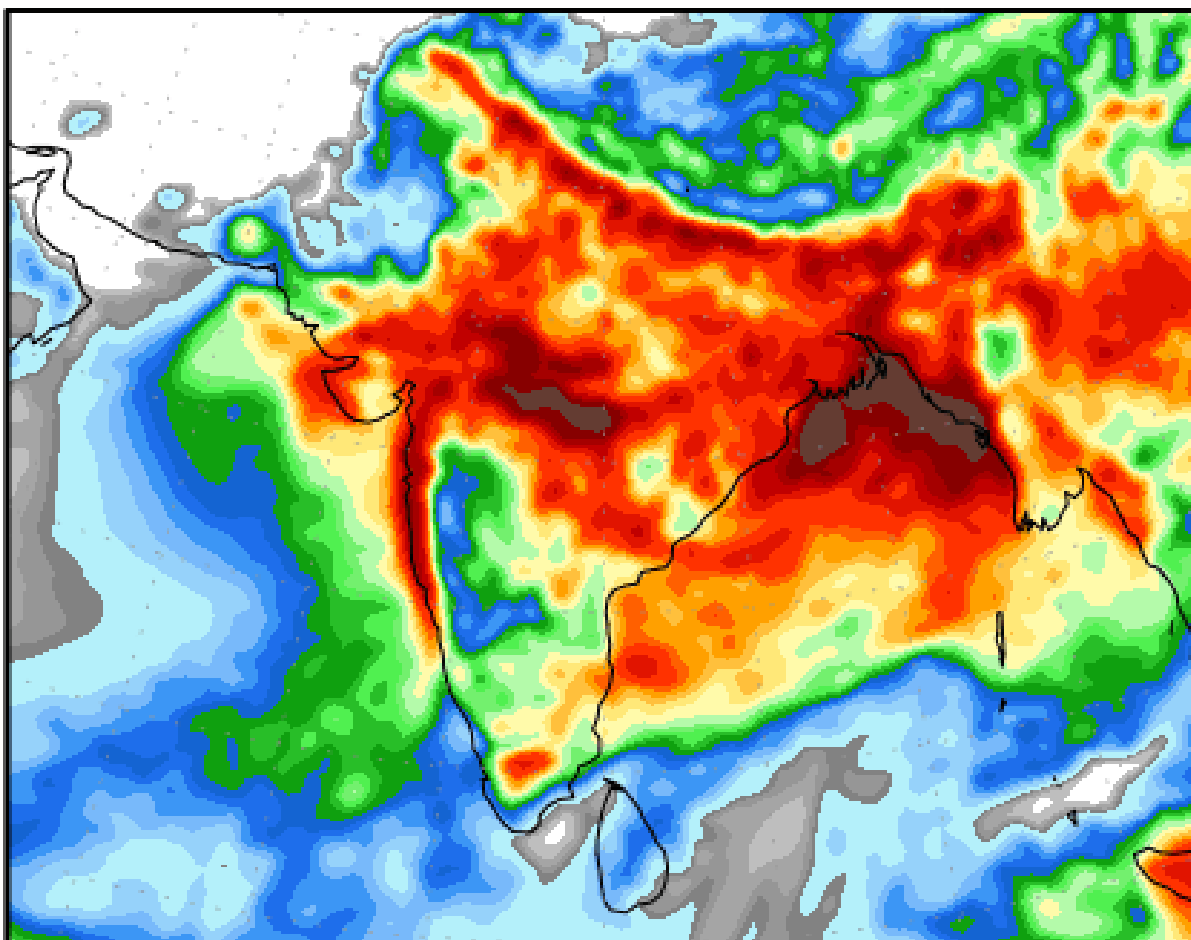


Figure:2. Precipitation forecast for 19 to 27 Aug 2020 (Source: NOAA NCEP).

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