

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 25 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area lies over Southwest Rajasthan & neighbourhood. It is likely to persist during next 24 hours and merge with heat low thereafter. The monsoon trough is active and south of its normal position. It is likely to remain active during next 2-3 days. Under the influence of the above systems, Widespread rainfall with isolated heavy to very heavy falls very likely over Gujarat state and heavy falls over southwest Rajasthan on 25th August.
- The other Low Pressure Area lies over North Bay of Bengal & neighbourhood. It is likely to become more marked during next 2 days. Under its influence, widespread rainfall with isolated heavy to very heavy falls very likely over Odisha, Gangetic West Bengal, Jharkhand during next 3-4 days and over Chhattisgarh, Madhya Pradesh & Rajasthan during 26th to 28th August. Isolated extremely heavy falls also very likely over Odisha on 25th & 26th August, 2020.
- Due to convergence of lower level easterlies from Bay of Bengal and south-westerlies from Arabian Sea, rainfall activity is very likely to increase over Northwest India from 25th August onwards with peak intensity on 26th & 27th August, 2020. Under its influence, Widespread rainfall with isolated heavy to very heavy falls very likely over northwest India during 26th to 28th August, 2020.
- 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 Gujarat state and North Interior Karnataka; at many places over West Bengal & Sikkim, Rajasthan, Madhya Maharashtra, Konkan & Goa and Coastal Karnataka; at a few places over Himachal Pradesh, Odisha and Madhya Pradesh and at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram &

Tripura, Jharkhand, Chhattisgarh, Uttar Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam and Tamil Nadu & Puducherry & Karaikal.

- Yesterday, heavy to very heavy rainfall was observed at isolated places over Saurashtra & Kutch.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hrs IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Rajasthan, Gujarat, Odisha, Jharkhand, Coastal Andhra Pradesh, Assam & Meghalaya, Tripura and West Bengal & Sikkim.
- Maximum Temperature Departures as on 24-08-2020: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam and Rayalaseema; at a few places over East Madhya Pradesh, Vidarbha, Chhattisgarh and Telangana; at isolated places over East Uttar Pradesh, Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at few places over Gujarat state and Rajasthan 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 24-08-2020: Minimum temperatures were above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over Himachal Pradesh, Uttarakhand, Punjab, West Rajasthan and Sub-Himalayan West Bengal & Sikkim; at a few places over Konkan & Goa and Kerala & Mahe and at isolated places over Haryana, Chandigarh & Delhi, Saurashtra & Kutch, Assam & Meghalaya and Andaman & Nicobar Islands. They were below normal (- 1.6°C to -3.0°C) at isolated places over Vidarbha and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.6°C was reported at Chandrapur (Vidarbha) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 August (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Odisha; heavy to very heavy rainfall at isolated places over Gangetic West Bengal and Gujarat State and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Rajasthan, Chhattisgarh, Bihar, Jharkhand, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Moderate thunderstorm accompanied with lightning at isolated places very likely over Vidarbha,

Chhattisgarh, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and North Bay of Bengal; (wind speed reaching 45-55 kmph) over North Arabian sea and along & off Gujarat coast. Fishermen are advised not to venture into these area.

- 26 August (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Odisha; heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Chhattisgarh, Jharkhand and Gangetic West Bengal and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Vidarbha, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Moderate thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and North Bay of Bengal. Fishermen are advised not to venture into these area.
- 27 August (Day 3): Heavy to very heavy rainfall at isolated places very likely over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh and Jharkhand and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Vidarbha, Bihar, Gangetic West Bengal, Odisha, Arunachal Pradesh and Assam & Meghalaya. Moderate thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and East Rajasthan. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and North Bay of Bengal. Fishermen are advised not to venture into these area.
- 28 August (Day 4): Heavy to very heavy rainfall at isolated places likely over East Uttar Pradesh and Madhya Pradesh and heavy rainfall at isolated places over

Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Konkan & Goa. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these area.

- 29 August (Day 5): Heavy to very heavy rainfall at isolated places likely over East Rajasthan, West Uttar Pradesh, Gujarat region and West Madhya Pradesh and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Rajasthan, Chhattisgarh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Konkan & Goa. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these area.
- The weather outlook for seven days i.e., 25 Aug to 02 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)

Himachal Pradesh

Weather condition:

The maximum and minimum temperature ranged between 26.0 to 28.5 °C and 19.0 to 20.0 °C which was above normal by 0.1 to 2.8 °C and 0.2 to 0.6 °C, respectively. 226.8 mm rainfall was received during the week against the normal of 139.6 mm. The relative humidity varied between 81-100% and sunshine hours between 1.5-2.5 hrs/day with variable sky conditions (Octa 6-8). The evaporation rate varied 1.2-3.4 mm per day.

Contingency measure:

- COVID ADVISORY: In view of threat of COVID-19 spread farmers are advised to follow the government guidelines, personal hygiene, use mask, ensure hand washing with soap at reasonable interval, social distancing during harvesting and other agricultural operation in all crops.
- KHARIF CROPS: RICE: Monitoring paddy against attack of blast and brown spot is advised. Spraying of recommended chemicals is advised. Monitoring for brown plant hopper (BPH) in paddy field is advised. Farmers are advised to see mosquito like insect at the basal portion of the plant.
- Maize: Stalk rot is expected in this weather for control drench maize fields with recommended chemicals a week before tasseling. In Maize stem borer is expected, for control put recommended granules.

- **GENERAL PRACTICES:** Keeping in view of light to medium rainfall during next five days, farmers are advised to do proper arrangement for drainage in all vegetables, pulse, maize and nurseries of the crops. Farmers are also advised not to do any type of spray in the crops.
- **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 celphos (3g) or quickphos (12g) or Fumino pouch in a wet cloth in the middle of bin and keep the bin airtight for some time. Keep the grain storage air sealed. Tuber moth affected potato should not be stored but should be buried in the pits outside the fields.
- **FODDER CROPS:** In mid hill region root slips of setaria, hathi grass may be planted in grasslands.
- **PULSES:** Ensure drainage in fields and weed free. Hairy caterpillar is also appearing in mash and til crops for control. Spraying of recommended chemicals is advised.
- **HIGH ALTITUDE AREAS:** Improved grasses and legumes may be planted. The crops planted earlier, in high hilly region, intercultural operations and urea dose advised. In high hilly intercultural operations and urea dose to peas, turnip, carrot, palak etc. advised.
- **VEGETABLE CROPS:** Ensure proper drainage in vegetable crops. Farmer can also use Light Trap to destroy harmful pests. For this, in a plastic tub or a large pot, mix water and a little kerosene or few gram Rogar and burn a bulb and keep it in the middle of the field at night. By attracting insects from light, they will fall on the same solution and die.
- **CUCURBITS:** The creepers should be lifted above the ground on a trellis made of bamboo. Attack of fruit fly expected in this weather in cucurbitaceous crops. Use of Methyl Eugenol trap is advised. For control recommended chemical is advised after clear sky. In cucurbitaceous crop attack of mite and jassid is expected. In cucurbits crops, attack of red beetle insect expected in the cucurbitaceous vegetables, if the number of pest is high then spraying of recommended chemicals advised. In case of severe problem of cutworms in vegetable crops, apply chlorpyrifos 20 EC @ 2 litres of water mixed with 25 kg sand per hectare.
- **ROOT CROPS:** In mid hill region nursery sowing of Chinese cabbage and direct sowing of radish, carrot, broccoli, lettuce is advised.
- **BHINDI & FRENCH BEAN:** 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

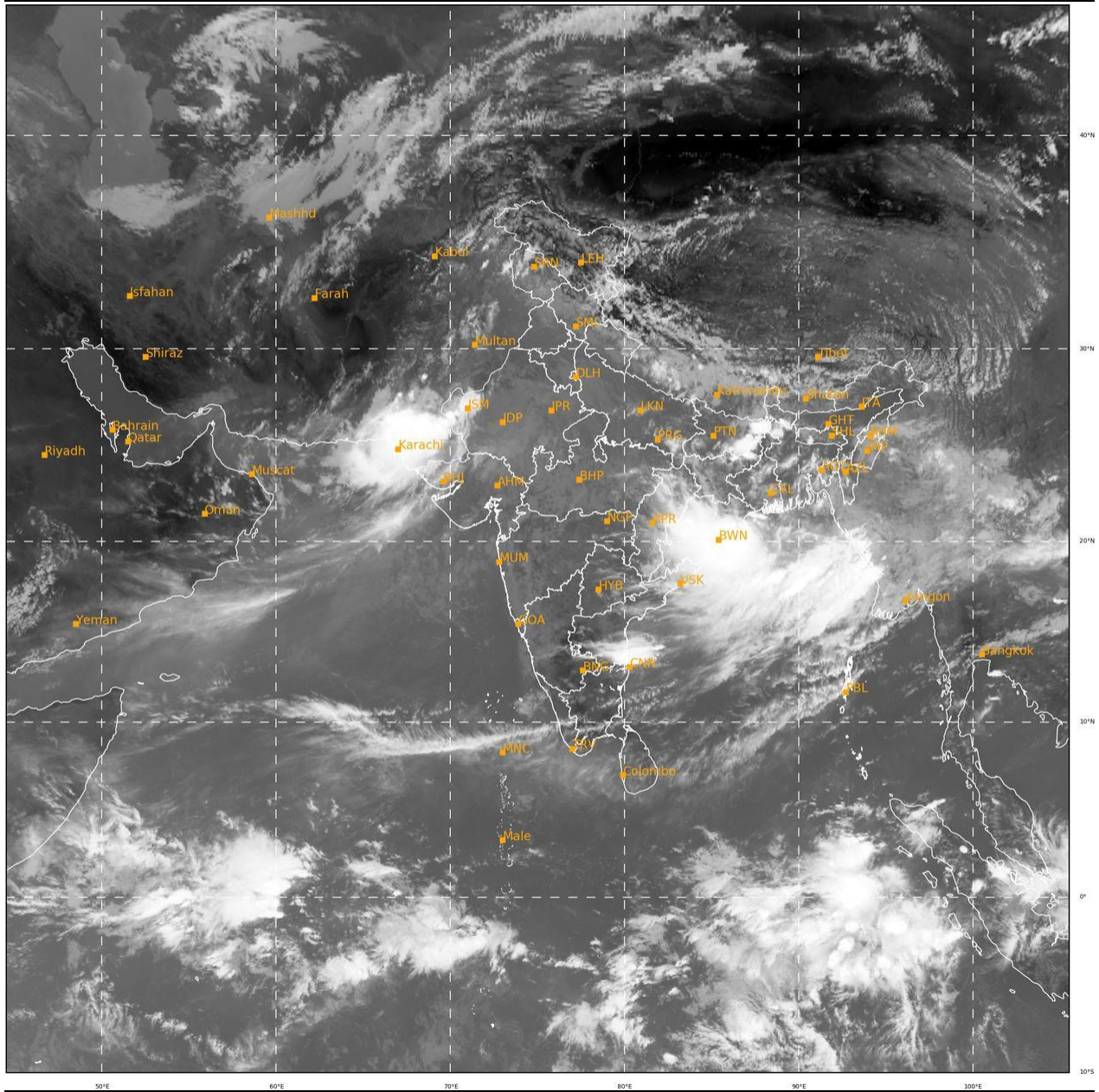
control spraying of recommended chemicals is advised to control mite and spraying of recommended chemicals is advised against jassid, when sky is clear.

- **TOMATO, CHILLI, CAPSICUM AND BRINJAL:** Shoot and fruit borer in brinjal and tomato crops expected, infested fruits and shoots should be collected and buried inside the soil. Installation of bird perches in tomato, pea, brinjal and gram crops is advised to control fruit borer insect. Constant monitoring of the chilli crop against attack of mites and jassid is advised.
- **POLY HOUSE AGRICULTURE:** Keep the open top and side bent on clear day and close on rainy day. 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 spray recommended chemicals Mites expected in polyhouse spray recommended chemical. Do not harvest vegetable at least for seven days of the spray. In Tomato and capsicum crops do provide support with ropes.
- **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 spray recommended chemicals. For the control of mites spray recommended chemicals. Spray immediately after plucking.
- **AGRO FORESTRY:** Transplant after onset of monsoon babul, subabul, khair, amla and prosopis nursery plant green in polythene bags. The saplings of eucalyptus and bamboo can also be transplanted.
- **LIVESTOCK:** Ecto-parasite attack is expected in this weather for control spray Butox @ 2ml per litre in cowshed Give mixture of hay & green fodder. Ensure cleanliness in cows having advanced pregnancy to avoid mastitis. Monitor the animals for FMD and advised Protect calves against parasites, get them dewormed with piperazine liquid @ 4 ml/kg body weight, first at 10 days of age, then 15 days and then monthly upto three months of age and then quarterly upto one year of age.
- **POULTRY:** Ensure proper ventilation in poultry houses. Replace the poultry houses with fresh litter and keep the houses clean and ensure drinking water to the birds. Climate is congenial for attack of Diathermia and cocksedia. Increase protein in feed of poultry. Protect poly house from rains showers.
- **HORTICULTURE:** The new growth appearing below bud union may be cut. Complete plantation of evergreen plants like Mango,litchi,guava,citru,laquat and amla For control citrus canker, spray malathion 10 ml or metasystox 10 ml per 10 l water.

- MUSHROOMS: Maintain room temperature 18-22°C and relative humidity around 85% for successful cultivation of dingri.
- WATER MANAGEMENT: In view of the rain, the farmer should prepare field bunds which should be high. Advised to add FYM, compost (manure compost, compost) to increase the water holding capacity and nutrients. Heavy rainfalls expected ensure proper drainage in the field. Farmers are advised make arrangement for storing rain water in pond made in the field. This water can be used for irrigation in the crops at suitable time during dry spell. Mulch material may also be arranged to use during dry spell .In rain fed areas, use of mulches is beneficial for conservation of moisture in the soil. Make proper bunds for water conservation in the rice field.

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

25-08-2020/(0600 to 0627) GMT
25-08-2020/(1130 to 1157) IST



271

929

IMD, DELHI

Figure: 1. Latest available satellite picture as on 25 August 2020 at 1137 Hrs (IST). (Source: IMD).

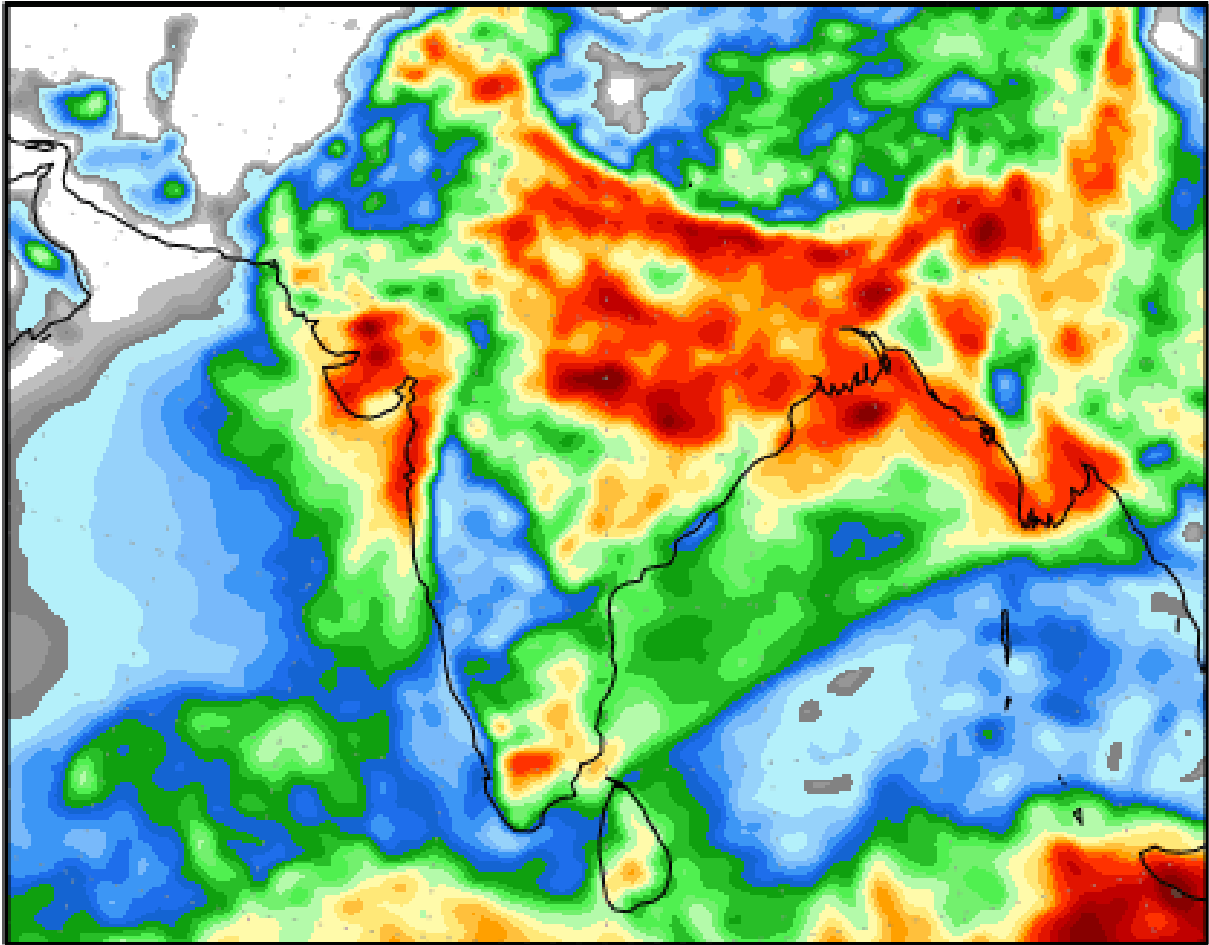


Figure:2. Precipitation forecast for 25 Aug to 02 Sep 2020 (Source: NOAA NCEP).

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