

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 26 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A well marked low pressure area lies over North Bay of Bengal & neighbourhood. It is very likely to move west northwestwards across Odisha, Gangetic West Bengal, Jharkhand, north Chhattisgarh, north Madhya Pradesh and south Uttar Pradesh during next 4 days.
- The monsoon trough is active and is very likely to remain active during next 2 days. In addition, there is a convergence of strong lower level southwesterly winds from Arabian Sea over northwest India till 28 August.
- Under the influence of above systems: a) Widespread rainfall with isolated heavy to very heavy falls very likely over Odisha, Gangetic West Bengal & Jharkhand till 28 August; over Chhattisgarh, Madhya Pradesh & West Rajasthan during 26 to 28 and over East Rajasthan on 28 & 29 August, 2020. b) Isolated extremely heavy falls also very likely over Odisha on 26 and over Chhattisgarh on 27 August, 2020. c) Widespread rainfall with isolated heavy falls very likely over northwest India till 28 August, 2020. Isolated heavy to very heavy falls are also very likely over Himachal Pradesh on 26, over Uttarakhand from 26 to 28 and over Uttar Pradesh on 27 & 28 August, 2020.
- Moderate to severe thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Bihar and Odisha 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 to 1730 hrs IST of yesterday): at most places over Odisha and Chhattisgarh; at many places over Gujarat state, Jharkhand, West Bengal & Sikkim and Coastal Karnataka; at a few places over Rajasthan, West Madhya Pradesh and Coastal Andhra Pradesh & Yanam and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, West

Uttar Pradesh, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Telangana, North Interior Karnataka and Tamil Nadu & Puducherry & Karaikal.

- Yesterday, rainfall recorded (from 0830 hours IST to 1730 hrs IST of today) (2 cm or more): Paradip and Boudh-9 each; Basudevpur (Bhadrak)-8; Chandbali (Bhadrak)-7; Banki-Dampada (Cuttack)-6; Tihidi (Bhadrak)- 5; Puri, Salipur (Cuttack) and Bhandaripokhari (Bhadrak)-4 each; Bhubaneshwar-3; Balasore, Baripada, Keonghargarh, Jharsiguda, Bolangir, Kalingapatam, Shillong and Deesa-2 each.
- Yesterday, heavy rainfall observed at isolated places over Odisha.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hrs IST of today): at a few places over Odisha and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Bihar, Assam & Meghalaya, Odisha, Uttarakhand, Chhattisgarh, West Rajasthan, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 25-08-2020: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at many places over a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Kerala & Mahe; at a few places over Arunachal Pradesh; at isolated places over Vidarbha and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at most places over Marathwada; at many places over Uttarakhand, West Bengal & Sikkim, Chhattisgarh, Konkan & Goa, Madhya Maharashtra and Telangana; at a few places over East Uttar Pradesh, Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at isolated places over West Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at a few places over Odisha; below normal (-1.6°C to -3.0°C) at many places over East Rajasthan; at isolated places over Gujarat State and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.9°C was reported at Dibrugarh (Assam).
- Minimum Temperature Departures as on 25-08-2020: Minimum temperatures were markedly above normal (5.1°C or more) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Kerala & Mahe and Lakshadweep; at many places over Punjab; at a few places over Coastal Andhra Pradesh & Yanam and South Interior Karnataka

and at isolated places over Haryana, Chandigarh & Delhi, Rajasthan, Odisha, Uttar Pradesh and Tamil Nadu, Puducherry & Karaikal and Saurashtra & Kutch. They were below normal (-1.6°C to -3.0°C) at isolated places over Vidarbha and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 20.0°C was reported at Dhar (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 26 August (Day 1): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Odisha; heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Chhattisgarh, Gangetic West Bengal and Jharkhand 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, Telangana and Tamil Nadu, Puducherry & Karaikal. Moderate to severe thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Bihar, Odisha, Uttar Pradesh, Rajasthan and Moderate thunderstorm accompanied with lightning at isolated places over 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; (wind speed reaching 45- 55 kmph) over North Bay of Bengal along & off Odisha-West Bengal coasts. Fishermen are advised not to venture into these areas.
- 27 August (Day 2): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over north Chhattisgarh; heavy to very heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh and East Madhya Pradesh and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, West Madhya Pradesh, Vidarbha, Jharkhand, Odisha and Gujarat region. Moderate to severe 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, Rajasthan and Moderate thunderstorm accompanied with lightning at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) very likely

over Southwest & adjoining Westcentral Arabian Sea; (wind speed reaching 45- 55 kmph) over North Bay of Bengal along & off Odisha-West Bengal coasts. Fishermen are advised not to venture into these areas.

- 28 August (Day 3): Heavy to very heavy rainfall at isolated places likely over Uttarakhand, Uttar Pradesh, Gujarat region and Madhya Pradesh and heavy rainfall at isolated places over Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Moderate thunderstorm accompanied with lightning likely at isolated places over Rajasthan and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 29 August (Day 4): Heavy to very heavy rainfall at isolated places likely over East Rajasthan and Gujarat region and heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, West Rajasthan, Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal. Moderate thunderstorm accompanied with lightning likely at isolated places over Rajasthan and Tamilnadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 30 August (Day 5): Heavy rainfall at isolated places over Gujarat State, Konkan & Goa, West Rajasthan, Uttarakhand and Assam & Meghalaya. Moderate thunderstorm accompanied with lightning likely at isolated places over Rajasthan and Uttarakhand. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 26 Aug to 03 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)

Maharashtra- Marathwada

Weather condition:

At Parbhani centre: 13 Aug to 19 Aug. (SMW 33) during this period 42.5 mm rainfall was recorded. The Maximum temperature was range from 26.5 to 28.6 °C and minimum temperature range from 21.5 to 22.5 °C. Relative humidity (RH I) ranged between 87 to

100% and relative humidity (RH II) recorded was 76 to 86%. The wind speed varied between 2.9 to 5.3 km/hr.

Contingency measure:

- Soybean: Due to cloudy weather along with increasing humidity leaf spot disease is observed in soybean crop, for management of leaf spot on soybean take a spray of Tebuconazole 10 % WP + Sulphur 65 % WG @ 10 gm per 10 liter of water during clear weather condition. For management of leaf eating caterpillar and stem pest in soybean crop take a spray of Profenophos 50% @ 400 ml or Thiamethoxam 12.6% + Lambda? cyhalothrin 9.5% (Complex insecticide) @ 50 ml or Chlorantraniliprole 18.5 % @ 60 ml per acre during clear weather condition. For management of Chlorosis in soybean crop due to excess rainfall, precaution should be taken that the field should be in wapsa condition. Take a spray of 0.5 to 1 % Ferrous sulphate or EDTA Chelated mix Micronutrient Grade (II) @ 500 g per 100 liter of water during clear weather condition. Precaution should be taken so that water may not stagnate in crop. Management practices should be done to drain out excess amount of water from crop.
- *Kharif* sorghum: For management of stem borer in *Kharif* sorghum apply Carbofuran 3 % Granular @ 8 kg per acre in whorl of plant. For management of fall armyworm in *Kharif* sorghum crop take alternate spray of Emamectin benzoate 5 % @ 4 gm or Spinetoram 11.7 SC @ 4 ml per 10 liter of water during clear weather condition. The insecticide should be spray in the whorl of plant. Precaution should be taken so that water may not stagnate in crop. Management practices should be done to drain out excess amount of water from crop.
- Sugarcane: For management of sucking pest (white fly, sugarcane pyrilla) in sugarcane take a spray of Chlorpyrifos 20 % @ 30 ml per 10 liter of water during clear weather condition. Now a day's white grubs are observed in many places in sugarcane crop for management of white grub soil application of metarhizium anisopliae @ 4 kg per acre (if infestation is more use 10 kg per acre) should be done. Precaution should be taken so that water may not stagnate in sugarcane crop for long period.
- Cotton: Due to cloudy weather condition and humidity infestation of sucking pest is observed in cotton crop. For management of sucking pest (Aphids, Jassids) in cotton crop. Take a spray of 5 % NSKE or Thiamethoxam 25 % @ 40 gm when infestation is less and Clothianidin 50 % @ 30 gm per acre during clear weather condition. If infestation is more than spray Flonicamid 50 % @ 60 gm per acre during clear weather condition. For management of pink bollworm in cotton install pink bollworm Pheromone trap @ 5 per acre. Initially take a spray of 5 % NSKE, if

infestation is more take a spray of Profenofos 50 % @ 400 ml or Profenofos 40 % + Cypermethrin 4 % (Complex insecticide) @ 400 ml per acre during clear weather condition. Intercultural operation should be done for weed management in cotton crop.

- Black/Green gram: Due to cloudy weather condition, infestation of aphids is observed in black gram / green gram crop. For management of aphids in black gram / green gram crop take a spray of 5% NSKE or Dimethoate 30% @ 240 ml per acre during clear weather condition. Maize-For management of fall armyworm in maize crop take a spray of Thiamethoxam 12.6 % + Lambda cyhalothrin 9.5% @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 liter of water during clear weather condition.
- Banana: Intercultural operation should be done for weed management in banana orchard. Remove the suckers from banana orchard.
- Custard apple: For management of Mealybug in custard apple. Take a spray of Neem oil @ 50 ml or Verticillium Lecanii @ 40 gm per 10 liter of water during clear weather condition. Intercultural operation should be done for weed management in custard apple orchard.
- Citrus: Due to excess rainfall fruit drop is observed in citrus orchard for management remove excess amount of water from orchard. maintained wapsa condition in orchard and take a spray of Trifloxystrobin 25 % + Tebuconazole 50% @ 2.5 gm per liter of water. For management of citrus psylla take a spray of Imidacloprid 17.8 % SL @ 1 ml or Thiamethoxam 25 WG @ 1 gm per 10 liter of water. For management of leaf eating caterpillar in citrus take a spray of Bacillus Thuringiensis (BT) powder 20 gm per 10 liter of water or Quinalphos 20 EC 30 ml or Thiodicarb 70 WP 10 gm per 10 liter of water. Precaution should be taken so that water may not stagnate in citrus orchard. Management practices should be done to drain out excess amount of water from orchard.
- Vegetable: Due to cloudy weather condition shoot and fruit borer is observed in vegetable crops. For management make use of Peromone trap @ per acre or take a spray of 5 % NSKE during clear weather condition. For management of bacterial blight in tomato take a spray of Copper oxychloride 25 gm + Streptocyclin 1gm per 10 liter of water during clear weather condition. Intercultural operation should be done for weed management in vegetable crops.

26-08-2020/(0600 to 0627) GMT
26-08-2020/(1130 to 1157) IST

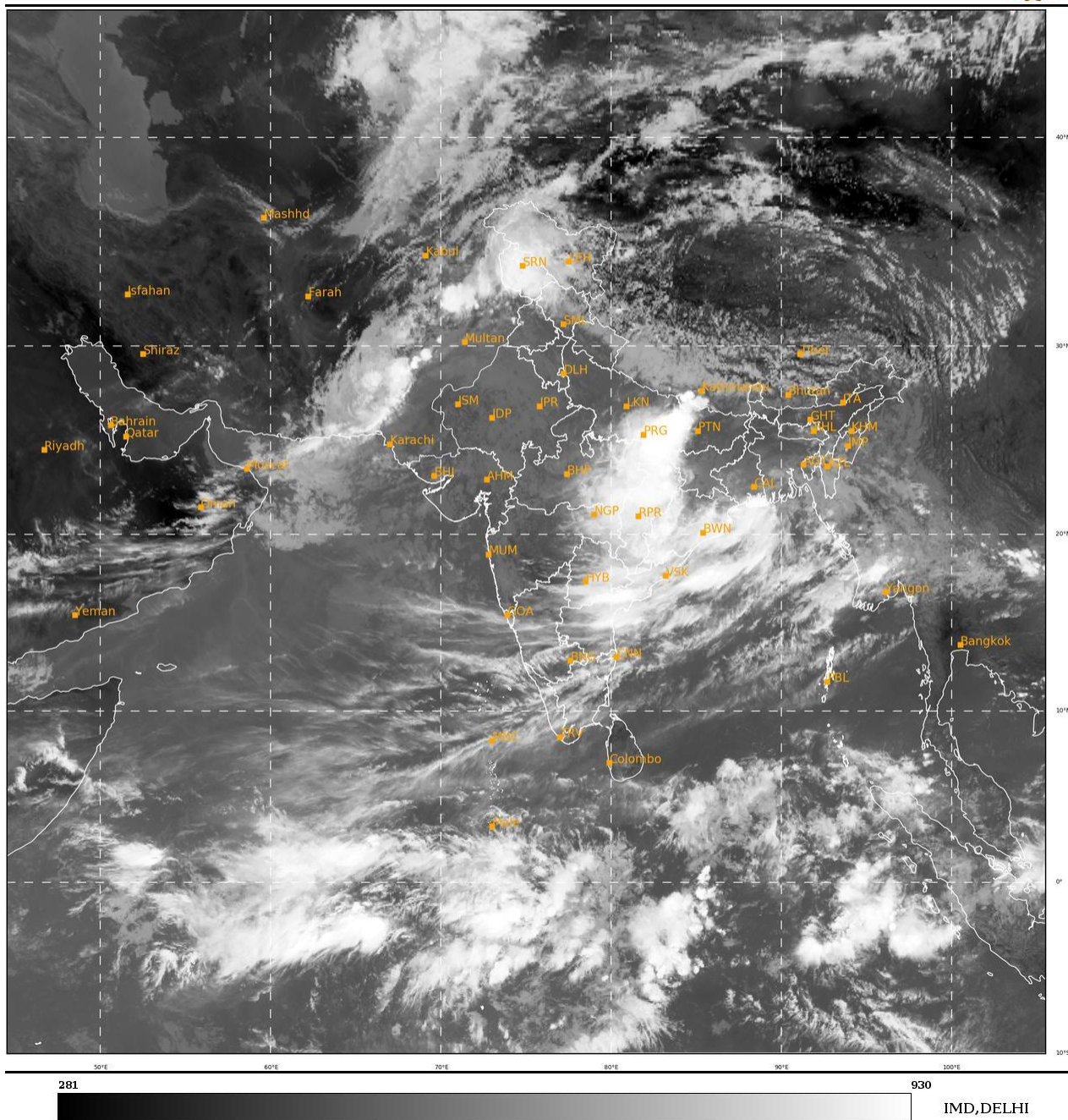


Figure: 1. Latest available satellite picture as on 26 August 2020 at 1157 Hrs (IST). (Source: IMD).

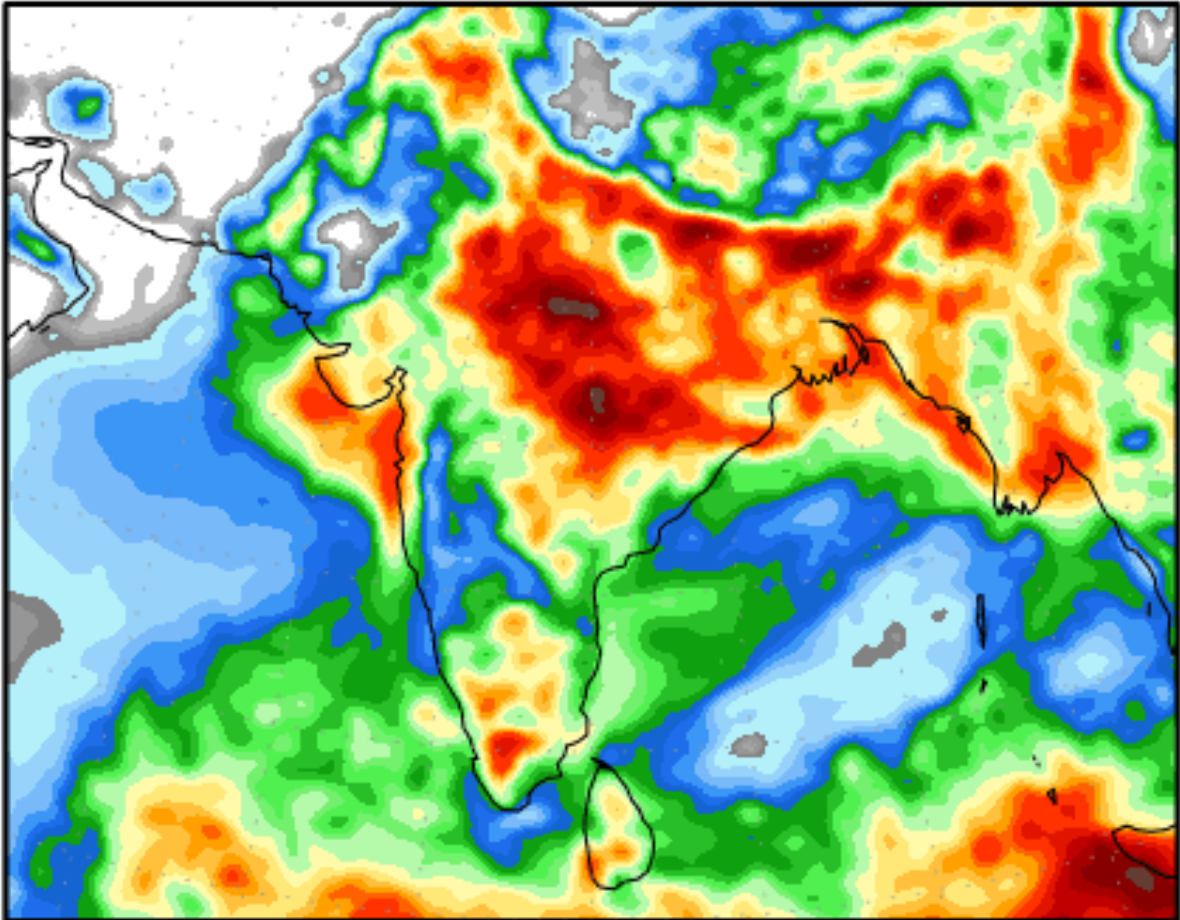


Figure:2. Precipitation forecast for 26 Aug to 03 Sep 2020 (Source: NOAA NCEP).

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