

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 26 Jul 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area over northwest Madhya Pradesh has become less marked. However, the associated cyclonic circulation over northwest Madhya Pradesh & neighbourhood extending upto mid-tropospheric levels km above mean sea level tilting southwards with height persists.
- The western end of the monsoon trough at mean sea level runs along its normal position while its eastern end runs close to the normal position. The western end likely to shift northward during next 24 hours.
- The east-west trough roughly runs along Lat. 25°N between 3.1 & 7.6 km above mean sea level tilting southwards with height.
- A cyclonic circulation lies over North Bay of Bengal & neighbourhood at mid & upper tropospheric level. Under its influence, a Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 28th July, 2021.
- Widespread rainfall activity with isolated heavy to very heavy falls very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh and Uttar Pradesh till 29th July, 2021 and reduction thereafter. Isolated extremely heavy is also likely over Himachal Pradesh & Uttarakhand on 27th & 28th and over northwest Uttar Pradesh on 27th July, 2021.
- Fairly widespread rainfall with isolated heavy to very heavy falls likely to continue over East Rajasthan and West Madhya Pradesh till tomorrow, the 26th July and reduce thereafter.
- Fairly widespread to widespread rainfall with isolated heavy falls very likely over Konkan & Goa, Ghat areas of Madhya Maharashtra during next 3 days and increase to isolated heavy to very heavy falls over the region from 29th July.
- Enhanced rainfall activity with fairly widespread to widespread rainfall and isolated heavy to very heavy falls likely over East and adjoining Central India (Odisha, Gangetic West Bengal, Jharkhand and Bihar) from 27th July, 2021.
- 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 hours IST of today): at most places over Uttarakhand, West Madhya Pradesh, Gujarat state, Konkan & Goa, Vidarbha, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep; at many places over Andaman & Nicobar Islands, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh, East Madhya Pradesh, Madhya Maharashtra, Chhattisgarh and Interior Karnataka; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Rajasthan, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal and at isolated places over Jharkhand, Bihar, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, Marathwada and Rayalaseema.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely Heavy Rainfall at isolated places over West Rajasthan and West Madhya Pradesh; Very Heavy Rainfall at isolated places over Jammu & Kashmir, East Rajasthan, Gujarat State, Madhya Maharashtra and South Interior Karnataka and Heavy Rainfall at isolated places over Punjab, East Rajasthan, Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, West Rajasthan, Gujarat State, Odisha, Coastal Andhra Pradesh, Coastal Tamilnadu, Telangana, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Tamilnadu, Gangetic West Bengal and East Rajasthan.
- Maximum Temperature Departures as on 25-07-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Rajasthan and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and East Uttar Pradesh; above normal (1.6°C to 3.1°C) at most places over Gangetic West Bengal; at many places over Punjab, Coastal & North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Bihar, Assam & Meghalaya and Arunachal Pradesh; at a few places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Vidarbha, Madhya Maharashtra, Telangana, Rayalaseema, Chhattisgarh and Odisha. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over West Madhya Pradesh and at isolated places over Gujarat State; below normal (-1.6°C to -3.0°C) at few places over Lakshadweep; at isolated places over Kerala & Mahe and Andaman & Nicobar Islands and near normal

over rest parts of the country. Yesterday, the highest maximum temperature of 41.6°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 26-07-2021: Minimum temperatures are markedly above normal (5.1°C or more) at isolated 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; at isolated places over East Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Punjab and Haryana, Chandigarh & Delhi; at many places over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at a few places over East Rajasthan, East Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura and Odisha; at isolated places over West Uttar Pradesh, West Rajasthan, Bihar, Assam & Meghalaya, Gangetic West Bengal, Konkan & Goa, Coastal Andhra Pradesh & Yanam and South Interior Karnataka. They are 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. Today, the lowest minimum temperature of 19.0°C is reported at Khargone (West Madhya Pradesh).

Weather Warning during the next 5 days (IMD)

- 26 July (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, north Haryana, East Rajasthan, West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Madhya Maharashtra and Heavy rainfall at isolated places over West Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Saurashtra & Kutch, Konkan & Goa, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Rajasthan, Bihar, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 45-55 kmph gusting to 65 kmph) very likely over Northeast & Central Bay of Bengal; (speed 40-50 kmph gusting to 60 kmph) along & off Gujarat coast. Fishermen are advised not to venture into these areas.
- 27 July (Day 2): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Himachal Pradesh, Uttarakhand and West Uttar Pradesh; Heavy to Very Heavy Rainfall at isolated places over Punjab, Haryana,

East Uttar Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and Heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 45-55 kmph gusting to 65 kmph) very likely over Northeast & Central Bay of Bengal; (speed 40-50 kmph gusting to 60 kmph) along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.

- 28 July (Day 3): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Himachal Pradesh and Uttarakhand; Heavy to Very Heavy Rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Uttar Pradesh, Jharkhand, Gangetic West Bengal, Odisha and Nagaland, Manipur, Mizoram & Tripura and Heavy rainfall at isolated places over East Madhya Pradesh, Chhattisgarh, Bihar, Assam & Meghalaya, Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea; (speed 45-55 kmph gusting to 65 kmph) over North Bay of Bengal, Andaman Sea and along & off Gujarat coast; (speed 40-50 kmph gusting to 60 kmph) along & off Maharashtra coast. Fishermen are advised not to venture into these areas.
- 29 July (Day 4): Heavy to Very Heavy Rainfall at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Bihar, Jharkhand, Gangetic West Bengal, Odisha and Konkan & Goa and Heavy rainfall at isolated places over Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Madhya Maharashtra. Thunderstorm accompanied with lightning likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Bihar, Jharkhand,

Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over Southwest & adjoining Westcentral Arabian Sea; (speed 45-55 kmph gusting to 65 kmph) over North Bay of Bengal and along & off Gujarat coast; (speed 40-50 kmph gusting to 60 kmph) along & off Maharashtra coast. Fishermen are advised not to venture into these areas.

- 30 July (Day 5): Heavy to Very Heavy Rainfall at isolated places likely over Uttarakhand, Uttar Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra and Konkan & Goa and Heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, East Madhya Pradesh, Chhattisgarh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region. Thunderstorm accompanied with lightning likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) likely over Southwest & adjoining Westcentral Arabian Sea; (speed 45-55 kmph gusting to 65 kmph) over North Bay of Bengal and along & off Gujarat coast; (speed 40-50 kmph gusting to 60 kmph) along & off Maharashtra coast. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 26 Jul to 03 Aug 2021 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)

Marathwada

Weather condition:

From 16.07.2021 to 22.07.2021 during this week Weather condition of Parbhani center total 126.7 mm rainfall was recorded. The Maximum temperature was range from 26.2 to 32.5 0C and minimum temperature range from 21.5 to 23.6 0C. Relative humidity (RH-I) ranged between 85-96% and relative humidity (RH-II) recorded was 60-87% The wind speed varied 1.1 to 6.3 km/hr.

Contingency measure:

- Cotton: Top dressing of Nitrogen @ 60 Kg / hectare for irrigated and 36 Kg / hectare for rainfed cotton should be applied one month after sowing in wapsa condition. Intercultural operation should be applied for weed management in cotton crop during wapsa condition. For management of sucking pest in cotton crop take a spray of 5 % NSKE or Acetamiprid 20% @30 gm or Thiamethoxam 25 % @ 40 gm per acre during clear weather condition. The areas where rainfall was received 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 field.
- Soybean: Intercultural operation should be applied for weed management in soybean crop during wapsa condition. For management of pest in soybean crop during clear weather condition. The areas where rainfall was received 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 field.
- Pigeon pea: Intercultural operation should be applied for weed management in Pigeonpea crop during wapsa condition. The areas where rainfall was received 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 field.
- Black/Green Gram: For weed management in Black gram/Green gram two hoeing and one hand weeding should be done upto one month of sowing during wapsa condition. The areas where rainfall was received 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 field.
- Ground nut: For weed management in groundnut two hoeing and one hand weeding should be done three to six week after sowing during wapsa condition. The areas where rainfall was received 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 field.

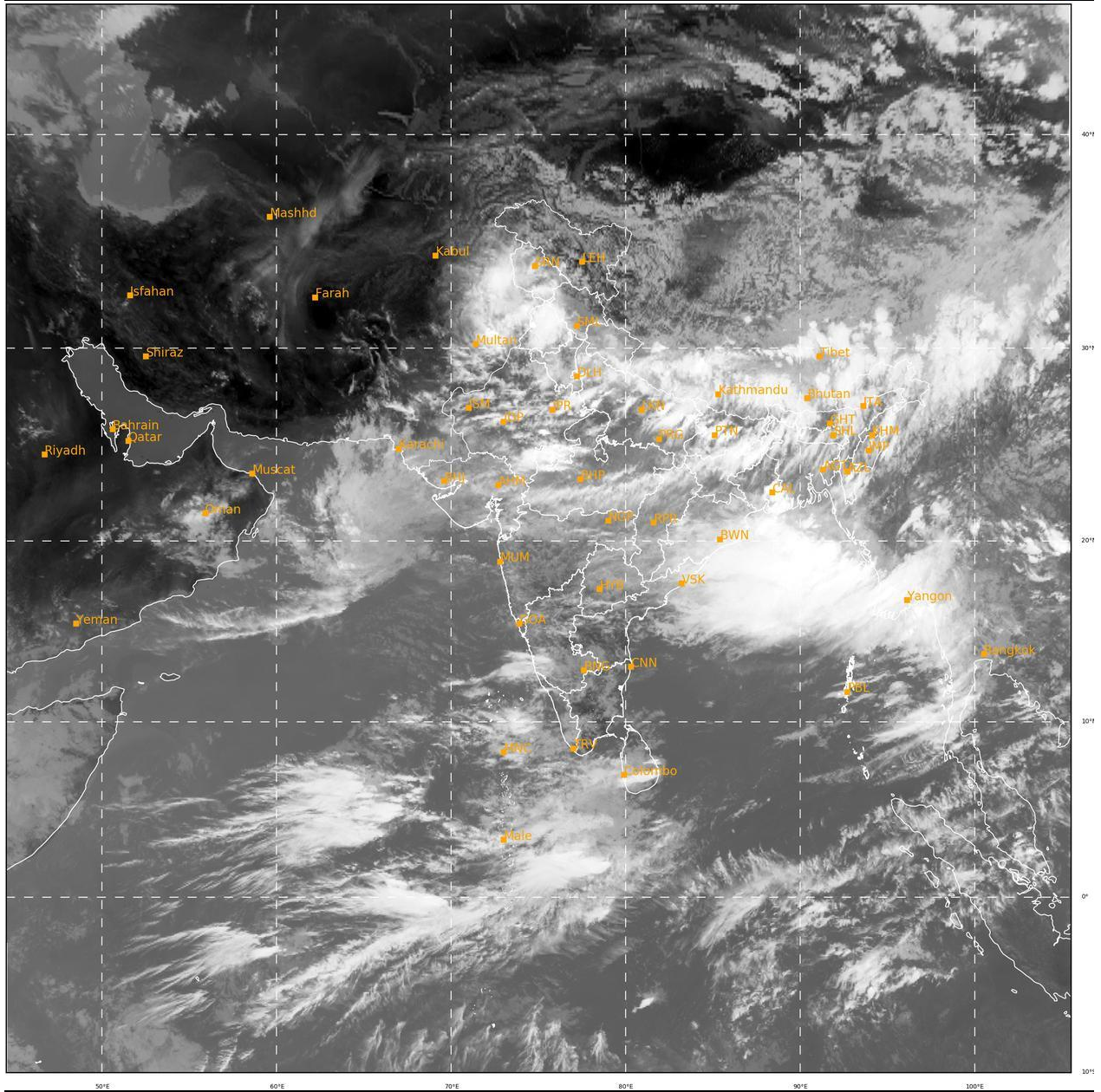
- Maize: For management of fall armyworm in early sown maize crop take a spray of Thiamethoxam 12.6 % + Lambda ? cyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 liter of water during clear weather condition. The areas where rainfall was received precaution should be taken so that water may not stagnate in crop management practices should be done to drain out excess amount of water from field.
- Banana: Top dressing of Nitrogen @ 50 gm / plant should be done in newly planted banana orchard. Weed management should be applied in newly planted Banana orchard. The areas where rainfall was received precaution should be taken so that water may not stagnate in Banana orchard management practices should be done to drain out excess amount of water from field. Weed management should be applied in newly planted Banana orchard during wapsa condition.
- Mango: Weed management should be applied in newly planted mango orchard during wapsa condition. The areas where rainfall was received precaution should be taken so that water may not stagnate in Mango orchard management practices should be done to drain out excess amount of water from field.
- Grape: Remove tillers from grape orchard. Thinning of leaves and pinching should be done in grape orchard. due to cloudy weather condition and rainfall downy mildew may observed in grape orchard for management take a spray of Potassium Salt of active Phosphorus 4 gm + Mancozeb 2 gm per liter of water. The areas where rainfall was received precaution should be taken so that water may not stagnate in Grape orchard management practices should be done to drain out excess amount of water from field.
- Custard Apple: Weed management should be applied in newly planted Custard apple orchard Weed management should be applied in newly planted mango orchard during wapsa condition.. The areas where rainfall was received precaution should be taken so that water may not stagnate in Custard apple orchard management practices should be done to drain out excess amount of water from field.
- Vegetable: For management of snails in vegetable crop collect the snails at evening or before sunrise dip them in solution of salt or solution of soap. Spread Metaldehyde granular @ 2 kg / Acre in field. Intercultural operation should be done in Vegetable crops Weed management should be applied in newly planted mango orchard during wapsa condition. The areas where rainfall was received precaution should be taken so that water may not stagnate in vegetable crop

management practices should be done to drain out excess amount of water from field.

- Floriculture: Intercultural operation should be done in Floriculture crops Weed management should be applied in newly planted mango orchard during wapsa condition. The areas where rainfall was received precaution should be taken so that water may not stagnate in Floriculture crop management practices should be done to drain out excess amount of water from field.
- Animal: After rainfall succulent grass is available for grazing. Due to voracious consumptions there is likely chance of ruminal tympany in ruminants. Hence cattle and buffaloes shall be orally administered with turpentine oil 50 ml + 200 ml edible oil. For sheep and goat the dose shall be 25 ml + 100 ml.

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

26-07-2021/(0830 to 0856) GMT
26-07-2021/(1400 to 1426) IST



252

942

IMD,DELHI

Figure: 1. Latest available satellite picture as on 26 Jul 2021 at 1426 Hrs (IST). (Source: IMD).

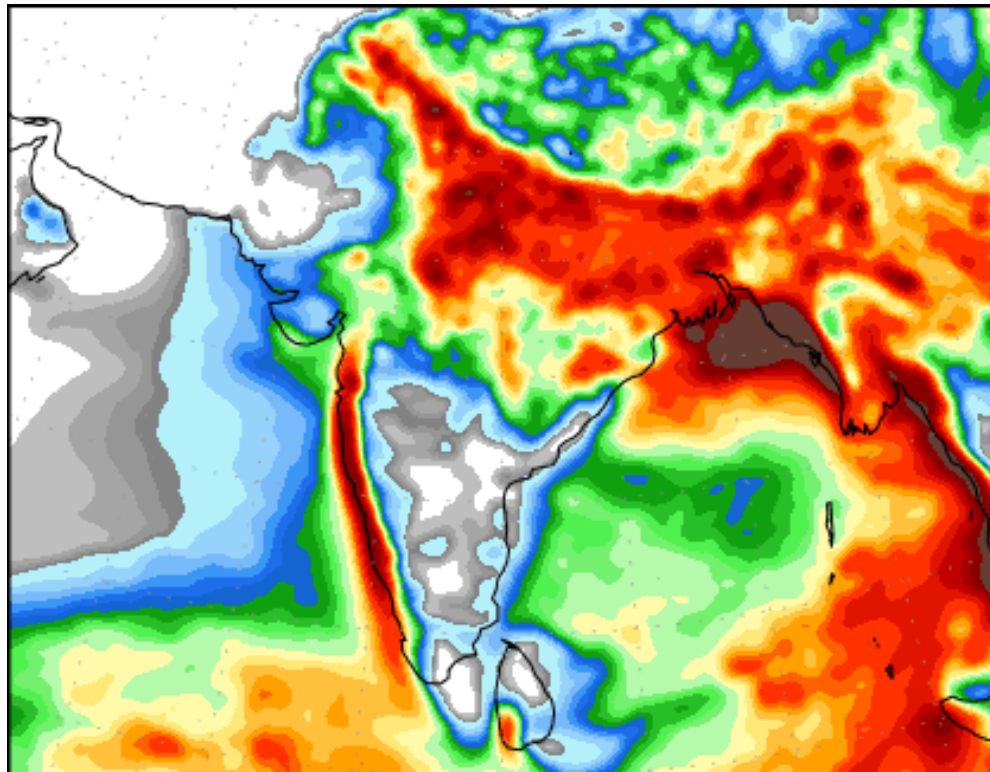


Figure:2. Precipitation forecast for 26 Jul to 03 Aug 2021 (Source: NOAA NCEP).

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