

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 16 Jul 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The western end of monsoon trough at mean sea level is south of its normal position & its eastern end is north of its normal position. Eastern end of the trough is very likely to be north of normal position till 19th July, while western end very likely to shift northward from 17th July.
- An off-shore trough at mean sea level now runs from Maharashtra coast to north Kerala coast. It is likely to persist during next 4-5 days.
- The east-west shear zone roughly passes along Lat. 15°N across Peninsular India in middle-tropospheric levels. It is likely to persist over south Peninsular India during next 3-4 days.
- Under the influence of these meteorological conditions.
 - i). Rainfall activity is very likely to increase with fairly widespread to widespread rainfall with heavy to very heavy falls over Western Himalayan Region and Uttar Pradesh from 17th July to 20th July, 2021 and over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan and north Madhya Pradesh from 18th July to 20th July, 2021. Isolated extremely heavy falls also likely over Uttar Pradesh on 18th; Jammu division on 19th; Uttarakhand on 18th & 19th July.
 - ii). Fairly widespread to widespread rainfall with isolated heavy falls very likely to continue over west coast and rest parts of west Peninsular India except over Gujarat state is very likely during next 6-7 days. Isolated heavy to very heavy falls very likely over Konkan & Goa, Ghat areas of Madhya Maharashtra, Karnataka and Kerala & Mahe during same period. Isolated extremely heavy falls also very likely over Konkan & Goa and Ghat areas of Madhya Maharashtra on 18th & 19th ; and over Coastal Karnataka on 16th & 17th July, 2021.
 - iii). Widespread rainfall with isolated heavy falls likely over northeast India and Sub-Himalayan west Bengal & Sikkim till 19th July and decrease in intensity & distribution thereafter. Isolated very heavy rainfall likely over northeast India on 18th July and over Sub-Himalayan west Bengal & Sikkim during 16th-19th July.

- Moderate to Severe thunderstorm with lightning very likely at isolated places over Gujarat, Madhya Pradesh and south Rajasthan during next 24 hours. They may cause injuries leading to casualties to people and animals staying outdoor.
- 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 Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Kerala & Mahe; at many places over Chhattisgarh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Marathwada, Telangana, Rayalaseema, North Interior Karnataka and Lakshadweep; at a few places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Vidarbha, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, East Uttar Pradesh, Rajasthan, East Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal and Odisha.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places over Konkan & Goa; Heavy to Very Heavy Rainfall at a few places over Kerala & Mahe and Telangana and at isolated places over Coastal Karnataka; and Heavy Rainfall at isolated places over South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Haryana, Uttarakhand, Gujarat Region, Coastal Andhra Pradesh and Assam & Meghalaya.
- Thunderstorm observed (from 0830 of yesterday to 0830 hours IST of today): Sub-Himalayan West Bengal & Sikkim, Gujarat state, Rajasthan, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Tripura, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand.
- Maximum Temperature Departures as on 15-07-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over East Rajasthan, West Madhya Pradesh, East Uttar Pradesh and Chhattisgarh and at isolated places over Gujarat state and West Uttar Pradesh; above normal (1.6°C to 3.1°C) at most places over Gangetic West Bengal; at many places over Kerala & Mahe, Odisha, Jharkhand, Himachal Pradesh and West Rajasthan; at a few places over Lakshadweep, Andaman & Nicobar Islands, Bihar, Madhya Maharashtra

and Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at isolated places over Assam & Meghalaya. They were markedly below normal (-5.1°C or less) at a few places over Tamil Nadu, Puducherry & Karaikal; appreciably below normal (-3.1°C to -5.0°C) at many places over South Interior Karnataka and Rayalaseema; at a few places over North Interior Karnataka and Marathwada and at isolated places over Punjab, Haryana, Chandigarh & Delhi, Telangana and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at most places over Coastal Karnataka and at a few places over Konkan & Goa and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.9°C was reported at Bikaner (West Madhya Pradesh).

- Minimum Temperature Departures as on 16-07-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over East Rajasthan and West Madhya Pradesh and at isolated places over East Madhya Pradesh and East Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over West Rajasthan and West Bengal & Sikkim; at a few places over Bihar and Odisha and at isolated places over Himachal Pradesh and Saurashtra & Kutch. They are below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.2°C is reported at Bidar (North Interior Karnataka).

Weather Warning during the next 5 days (IMD)

- 16 July (Day 1): Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Coastal Karnataka; Heavy to Very Heavy Rainfall at isolated places over Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, south Gujarat Region, Madhya Maharashtra, Telangana, South Interior Karnataka and Kerala & Mahe and heavy rainfall at isolated places over East Uttar Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Marathwada and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Telangana and Kerala & Mahe; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Squally weather wind (speed 40-50

kmph gusting to 60 kmph) very likely over Southwest, Westcentral & Northeast Arabian Sea, along & off south Gujarat-Maharashtra-Goa-Karnataka-Kerala coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.

- 17 July (Day 2): Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Coastal Karnataka; Heavy to Very Heavy Rainfall at isolated places over Uttarakhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, South Interior Karnataka and Kerala & Mahe and Heavy rainfall at isolated places over Himachal Pradesh, Uttar Pradesh, East Rajasthan, southwest Madhya Pradesh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Telangana and Kerala & Mahe; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian Sea and along & off Maharashtra-Goa-Karnataka-Kerala coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 18 July (Day 3): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Uttarakhand, Uttar Pradesh, Madhya Maharashtra (ghat areas) and Konkan & Goa; Heavy to Very Heavy Rainfall at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, northwest Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Coastal & South Interior Karnataka and Kerala & Mahe and Heavy rainfall at isolated places over Jammu division, Punjab, East Madhya Pradesh, North Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Telangana; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh &

Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral & North Arabian Sea and along & off Maharashtra-GoaKarnataka-Kerala coasts, Lakshadweep area, Andaman Sea and south Bay of Bengal. Fishermen are advised not to venture into these areas.

- 19 July (Day 4): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Madhya Maharashtra (ghat areas) and Konkan & Goa; Heavy to Very Heavy Rainfall at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim and Coastal Karnataka and Heavy rainfall at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim and Odisha. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral & North Arabian Sea and along & off Maharashtra-Goa coasts Andaman Sea and south Bay of Bengal. Fishermen are advised not to venture into these areas.
- 20 July (Day 5): Heavy to Very Heavy Rainfall at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, Madhya Maharashtra and Konkan & Goa and Heavy rainfall at isolated places over Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim and Odisha. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral & North Arabian Sea and along & off Maharashtra-Goa coasts Andaman Sea and south & central Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 16 Jul to 24 Jul 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)

Western U.P

Weather condition:

Medium to heavy Cloudy condition with light to moderate rainfall may be occurred during 14 to 18 July. Maximum minimum temperature 1.0-2.0 0C lower to its normal and minimum temperature 1.00C higher to its normal. South-East / North-East winds may be prevailing 10.0 to 16.0 km/hr which is 5-6 kmph above to its normal during this week as per forecast.

Contingency measure:

- Paddy: Rainfall forecast during 15 July to 18 July farmers are advised transplantation of rice should be taken up regularly. If farmers are not raised nursery till today, SRI method could be used by short duration rice viz; Govind, Manhar, Narandra-80, NDR-97, Pant-12, IR-50, Ashwani, Shakat -4, and Baranideep. Seed should be treated with Streptocycline 4.0 g with 45 lt. water for 35 kg seed soaking for the control of Bacterial blight. 2.0% solution of N with 2% potash should be spray after 15 days in light soils on standing nursery. Weeding should be completed and damaged bund should be prepare around the paddy field.
- Maize: Last week 56.9 mm rainfall occurred Sowing of maze should be done after 11 July with hybrid varieties such as Azad hybrid-1, Azad hybrid-2, DEKC-7074 Ganga-11, HQPM-5, Sartaj, MS maze-2 and Sankul varieties Prabhat, Azad uttam, Pragati, Gaurav, Pro-316 (4640) Bio-9681 and Y-1402K after treatment of seed through 2.5 g Thirum or 2.0g Corbendazim / kg seed. Drain out excess water. Weeding should be done.
- Sorghum: Sowing of sorghum should be taken up at clear sky, seed should be treated with 2.5 g Thiram or 2.0 g Agro-san G.N @ 3.0 g /kg of seed composite varieties like Varsha, CSV-13.,15, SPB -1388, Vijeta and Hybrid varieties are CSH-16, 9, 14, 18, 13 and CSH-23. To ensure good stand 12-15 kg seed/ ha. the seed should be sown in rows 45 cm apart a depth of 3-4 cm. The seed should be purchased from a reliable source if assured irrigation available.
- Pea: Sowing of long duration varieties such as Bahar, Amar, Narendra Arhar-1, Azad, Pusha-9, and Narendra Arhar-2 at clear sky. Treated seed always should be used.
- Green / black gram: Favorable weather condition for sowing of green gram.

Suitable varieties are Pant moong-1, 3, 4, Narendra moong-1, 4, PDM-11, Malveeya jyoti, Samrat, Malveeya janchetna, Malveeya janpriya, Malveeya jagrati, Asha, Meha, MH-2-15, and TM-9937 for the purpose. Sowing of long duration black gram varieties as, Shekar-1, Shekar-2, Azad U-3 and WBU-108 with 12-15 kg/ha treated seed.

- Ground nut: Sowing of short duration varieties as TG-37A, CSMG-84-1, CSMG-884, G-201 and MA-10. With 70-75 kg/ha treated seed with 50 cm apart line sowing using 20:30:45 NPK and 250 kg Zipsun and 4.0 kg Boron /ha if not have soil testing report.
- Brinjal / Chilies :Plantation of new seedling should be taken up on ridge. Pick up mature fruits on standing crop.
- MP Chari / Mucchari /Pearl-millet: Cutting should be done at knee height. Sowing of SSG-988-898, PC-23 ,SSG-59 -3 and MP chari @ 30-40 kg seeds /ha. Sowing should be Pearl-millet varieties such as Raj-171, L-72 and L-74 done.
- Animal: Bathing should be taken up at morning and evening before milking. Drinking water should be given thrice a day. Balanced diet should be given for milch animal and Vaccinate Foot and Mouth disease and if need concerned near Veterinary hospital.

16-07-2021/(0830 to 0856) GMT
16-07-2021/(1400 to 1426) IST

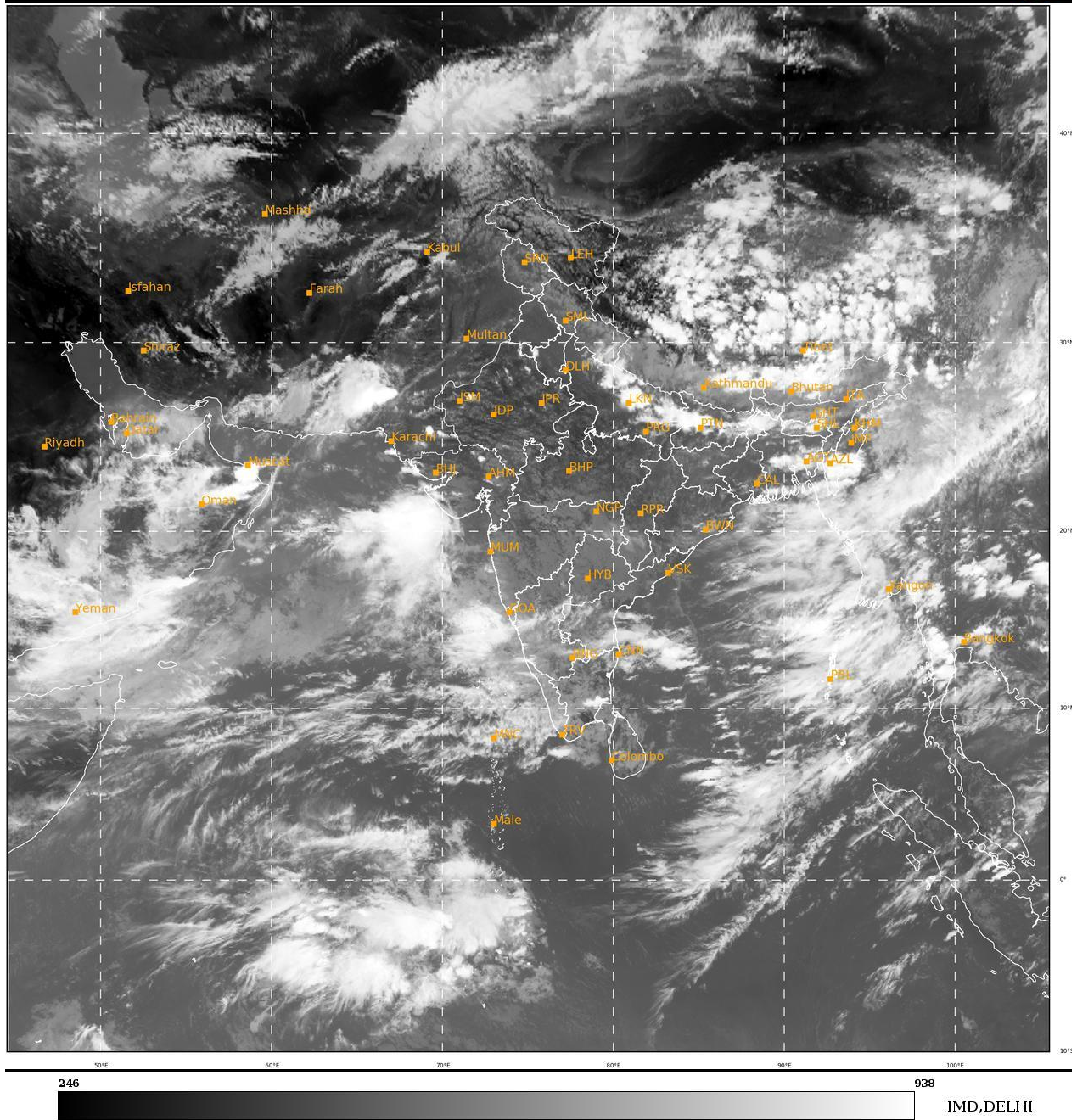


Figure: 1. Latest available satellite picture as on 16 Jul 2021 at 1426 Hrs (IST). (Source: IMD).

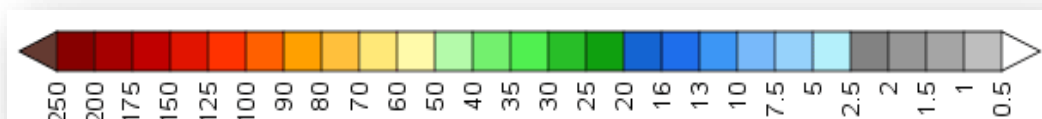
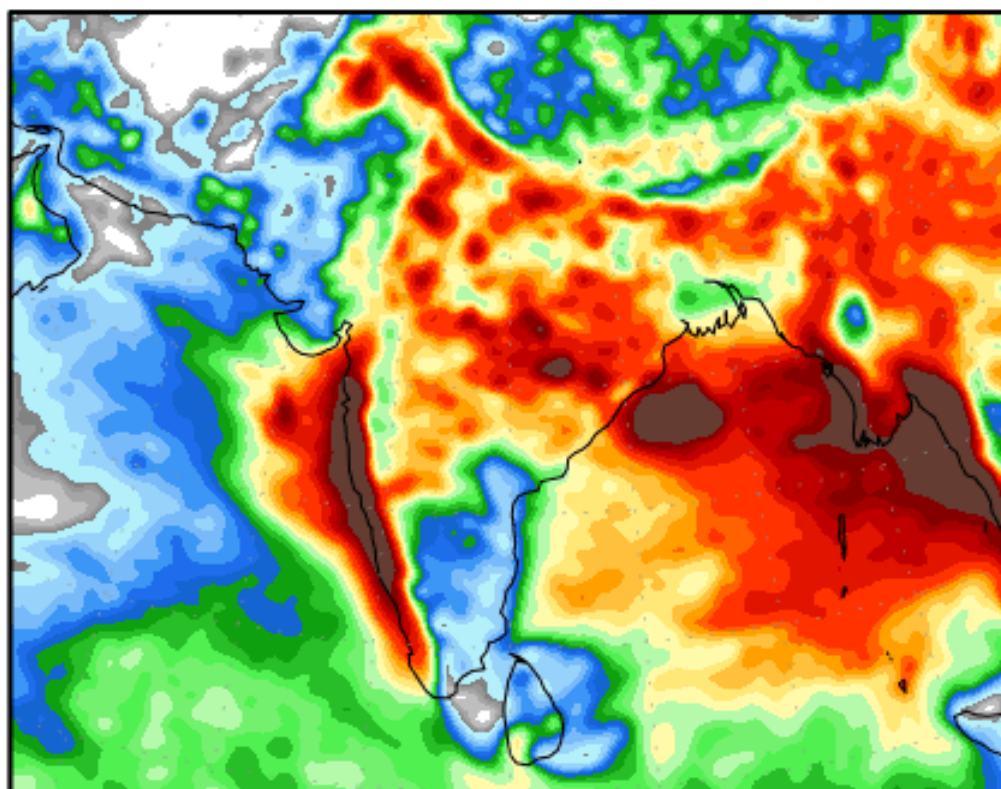


Figure:2. Precipitation forecast for 16 Jul to 24 Jul 2021 (Source: NOAA NCEP).

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