

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 21 June 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest Monsoon has further advanced into some more parts of south Madhya Maharashtra, most parts of Karnataka, remaining parts of Tamilnadu, Puducherry & Karaikal, entire Andhra Pradesh, most parts of Telangana, some parts of south Chhattisgarh & Odisha, remaining parts of Bay of Bengal, most parts of West Bengal and some parts of Jharkhand and Bihar.
- Northern Limit of Monsoon (NLM) passes through Lat. 17°N/Long. 60°E, Lat. 17°N/Long. 70°E, Ratnagiri, Sangli, Bijapur, Ramagundam, Jagdalpur, Phulbani, Jamshedpur, Asansol, Purnea and Lat. 28°N/Long. 87°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into remaining parts of Central Arabian Sea, Karnataka, Telangana, Konkan & Madhya Maharashtra, entire Marathwada, some parts of Vidarbha, remaining parts of Chhattisgarh, Odisha, West Bengal, Bihar & Jharkhand and some parts of East Madhya Pradesh and East Uttar Pradesh during next 72 hours.
- Strong winds and rough sea in association with the Southwest Monsoon are prevailing over southwest & central Arabian Sea, Lakshadweep area and around the low pressure area over north Bay of Bengal.
- The images showing the latest satellite picture in 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 Odisha, Telangana, Kerala & Mahe, Lakshadweep and Coastal Karnataka; at many places over Jammu & Kashmir, Jharkhand, West Bengal & Sikkim, Himachal Pradesh, Punjab, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Andaman & Nicobar, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya and Arunachal Pradesh; at a few places over West Rajasthan, Bihar, Rayalaseema, Konkan & Goa and Vidarbha and at isolated places over Uttarakhand, East Rajasthan, East Uttar Pradesh, Tamilnadu, Puducherry & Karaikal, North Interior Karnataka, Madhya Maharashtra and East Madhya

Pradesh. Heavy to very heavy rainfall observed at isolated places over Assam & Meghalaya; Heavy rainfall observed at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Lakshadweep. Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, West Rajasthan, Chhattisgarh, Himachal Pradesh, Uttarakhand, Punjab, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Tripura, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, East Madhya Pradesh and Kerala & Mahe.

- Yesterday, Heat Wave Conditions were observed in some parts over Vidarbha and in isolated pockets over Bihar.
- Maximum temperature departures as on 20.06.2019: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jharkhand and Vidarbha; at isolated places over Gangetic West Bengal, Odisha, Telangana, Madhya Maharashtra and Chhattisgarh; appreciably above normal (3.1°C to 5.0°C) at most places over Bihar and Marathawada; at many places over Arunachal Pradesh, North Interior Karnataka and Tamilnadu, Puducherry & Karaikal; at a few places over Madhya Pradesh, Rayalaseema and Assam & Meghalaya; at isolated places over Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Konkan & Goa, South Interior Karnataka, Kerala & Mahe and Nagaland, Manipur, Mizoram & Tripura; at a few places over Andaman & Nicobar Islands and at isolated places over West Rajasthan and Gujarat. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu & Kashmir and Uttar Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Punjab and at isolated places over East Rajasthan and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 42.7°C recorded at Bikaner (West Rajasthan).
- Minimum temperature departures as on 21.06.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Marathawada; at isolated places over Vidarbha; above normal (1.6°C to 3.0°C) at many places over Bihar, Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal; at a few places over Gangetic West Bengal, West Madhya Pradesh and Rayalaseema and at isolated places over Jharkhand, West Rajasthan, Gujarat, East Madhya Pradesh, Madhya Maharashtra, Konkan & Goa and Andaman & Nicobar Islands. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Himachal Pradesh; at a few places over Odisha; at isolated places over Jammu & Kashmir; below normal (-1.6°C to -3.0°C) at a few places over East Uttar Pradesh and Telangana and at isolated places over Punjab, West Uttar Pradesh and East Rajasthan and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 21 Jun (Day 1): Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and Vidarbha. Thunderstorm accompanied with lightning at isolated places very likely over Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to Very Heavy Rainfall at isolated places very likely over Chhattisgarh, Odisha and Coastal Karnataka. Heavy rainfall at isolated places over Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Konkan & Goa, Jharkhand, Gangetic West Bengal and Assam & Meghalaya. Heat wave conditions very likely in isolated pockets over Vidarbha. Rough Sea conditions are likely to prevail over southwest and central Arabian Sea, Lakshadweep area & north Bay of Bengal. Fishermen are advised not to venture into these areas.
- 22 Jun (Day 2): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Rajasthan. Thunderstorm accompanied with lightning at isolated places over Bihar, Jharkhand and Gangetic West Bengal. Heavy rainfall at a few places with very heavy rainfall at isolated places over Coastal Karnataka; Heavy to Very Heavy rainfall at isolated places over Interior Karnataka, Kerala & Mahe and Marathawada and heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu, Puducherry & Karaikal, Konkan & Goa, Madhya Maharashtra, East Uttar Pradesh, Chhattisgarh and Odisha. Rough Sea conditions are likely to prevail over southwest and central Arabian Sea & north Bay of Bengal. Fishermen are advised not to venture into these areas.
- 23 Jun (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (40-50 kmph) at isolated places likely over Uttarakhand; with gusty winds (30-40 kmph) & lightning at isolated places very likely over Jammu & Kashmir and with lightning at isolated places over Bihar and Jharkhand. Heavy rainfall at a few places with very heavy rainfall at isolated places over Coastal Karnataka; Heavy to Very Heavy rainfall at isolated places over Kerala & Mahe and Madhya Maharashtra and heavy rainfall at isolated places over Interior Karnataka, Konkan & Goa, Marathawada, Uttarakhand, East Uttar Pradesh, Arunachal Pradesh and Assam & Meghalaya. Rough Sea conditions are likely to prevail over southwest and central Arabian Sea. Fishermen are advised not to venture into these areas.
- 24 Jun (Day 4): Thunderstorm accompanied with lightning, hail & gusty winds (40-50 kmph) at isolated places likely over Uttarakhand; with gusty winds (40-50 kmph) & lightning at isolated places very likely over Jammu & Kashmir and Himachal Pradesh; with gusty winds (30-40 kmph) & lightning at isolated places very likely

over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh and with lightning at isolated places over Odisha. Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and heavy rainfall at isolated places over Uttarakhand, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh and Coastal Karnataka.

- 25 Jun (Day 5): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh; with lightning at isolated places over Odisha. Heavy to Very Heavy rainfall with extremely heavy falls at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Arunachal Pradesh and heavy rainfall at isolated places over Bihar and Andaman & Nicobar Islands
- The weather outlook for the period of seven days *i.e* 21 to 28 June 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Uttarakhand, Himachal Pradesh, Punjab, Rajasthan, East Uttar Pradesh, West Bengal & Sikkim, Bihar, Jharkhand, East Madhya Pradesh, Chhattisgarh, Odisha, Konkan & Goa, Vidarbha, Madhya Maharashtra, Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Coastal Karnataka, Kerala, Mahe, Tamilnadu, Puducherry & Karaikal, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

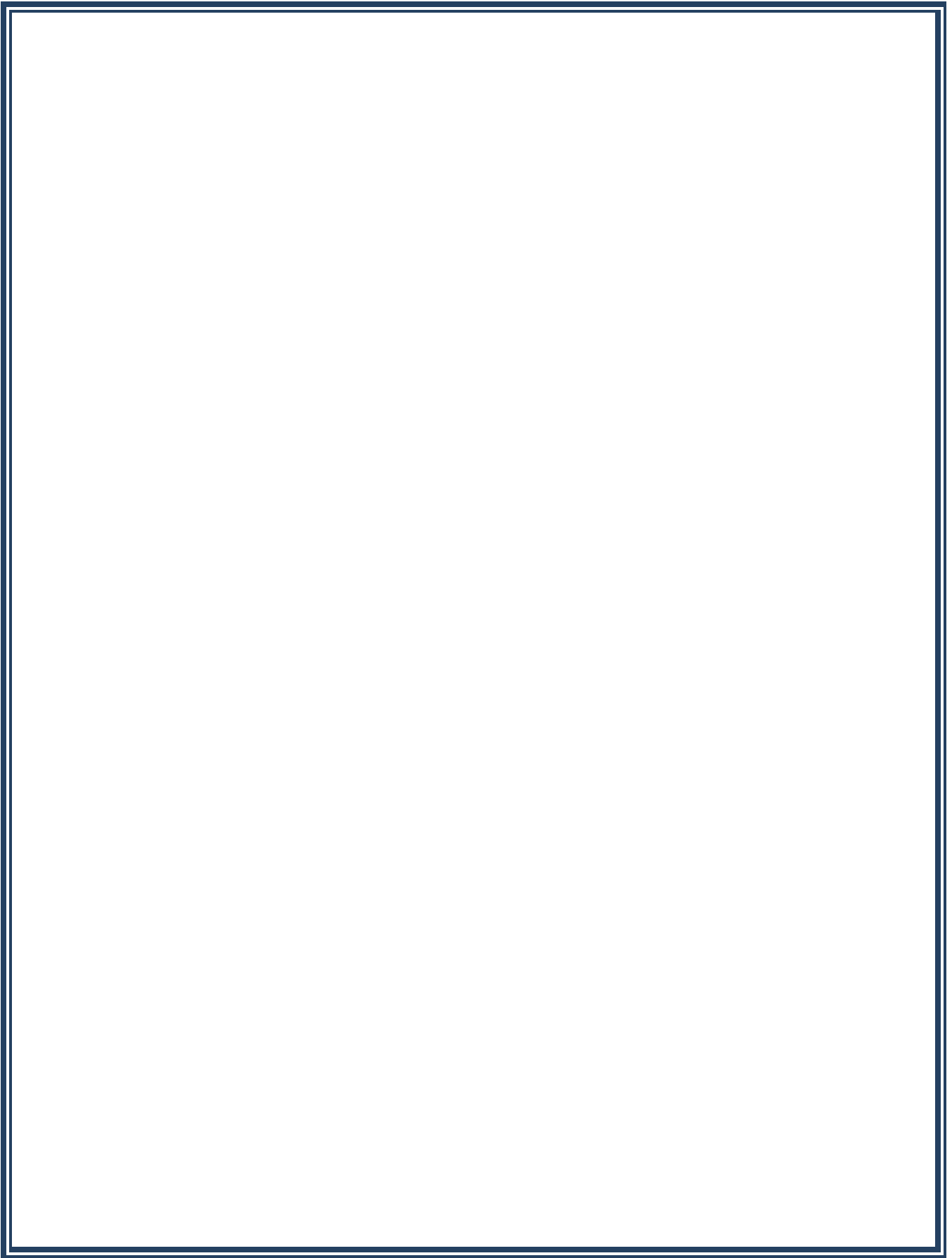
Eastern Uttar Pradesh

Weather condition:

Dry weather prevailed in Eastern region of Uttar Pradesh state during past few days. Average Maximum and minimum temperatures are 3.0 to 4.0°C above normal.

Contingency measure:

- General: Looking no rainfall in the forecast, farmers are advised for nursery raising of paddy very soon.
- Digging of pits for plantation of new orchards. Intercultural operation sugarcane. Ploughing of fallow fields.
- Under prevailing weather conditions, there is possibility of mouth disease and Langara fever in cow/buffalo, hence farmers are advised fertilizer vaccination.



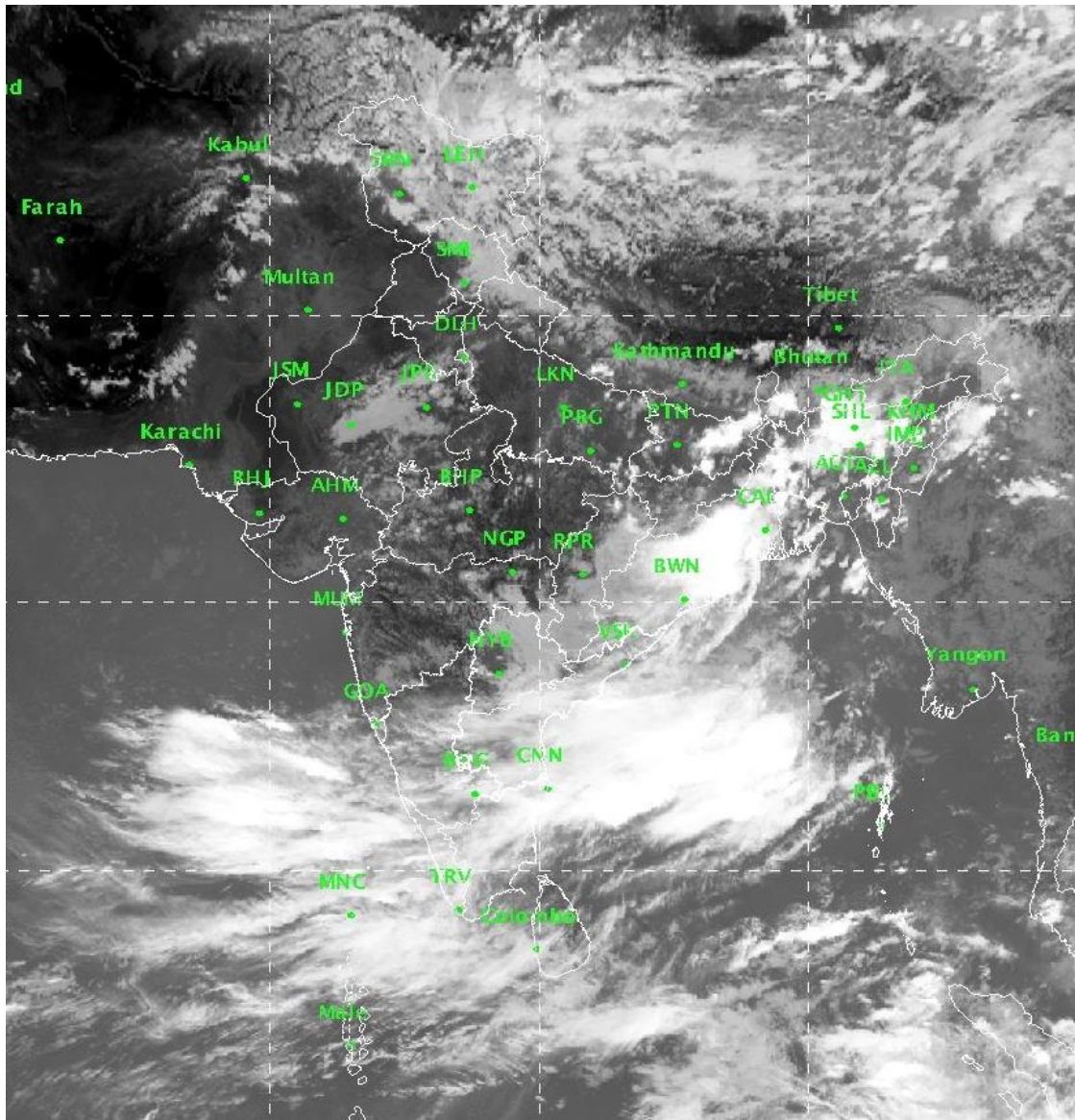


Figure: 1. Latest available satellite picture as on 21 June 2019 at 0230 Hrs (IST).

(Source: IMD).

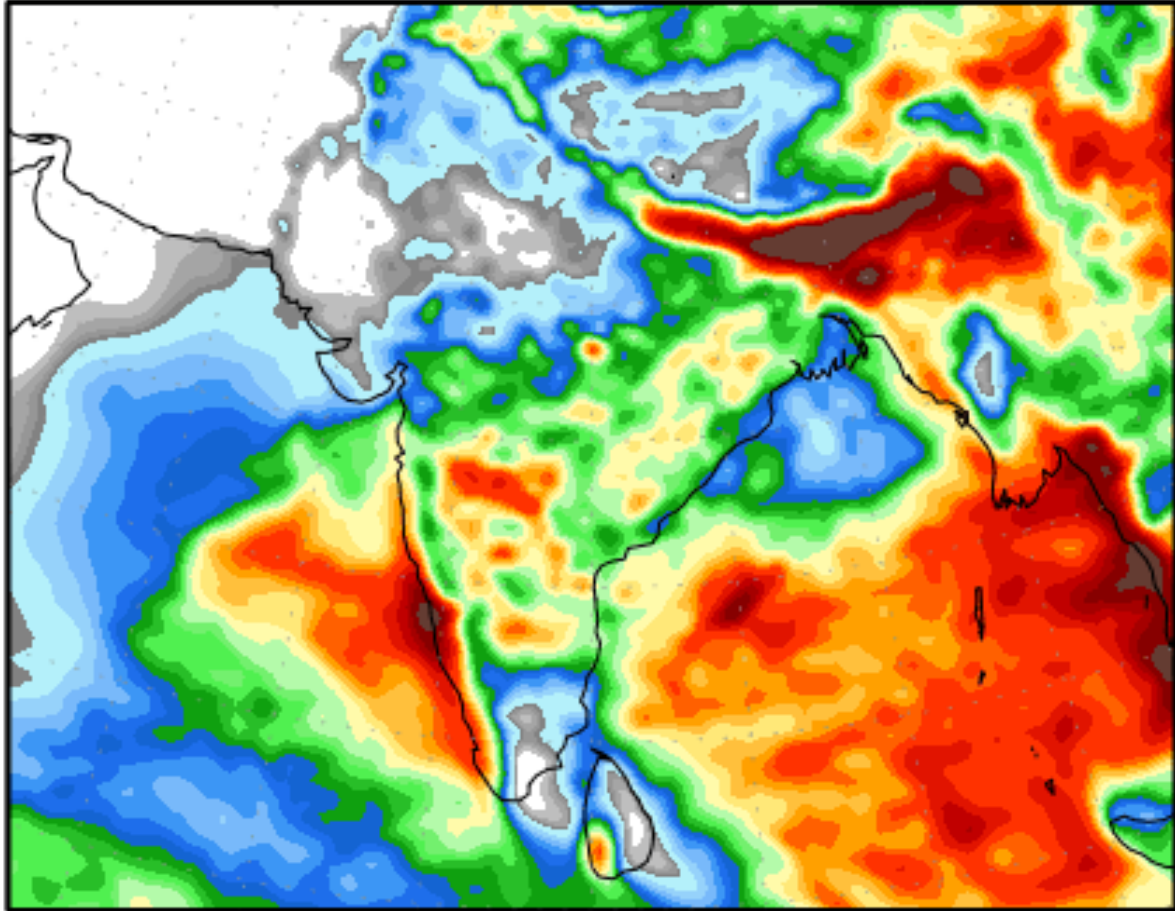


Figure: 2. Precipitation forecast for 21 to 28 June 2019 (Source: NOAA NCEP).