

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 May 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Cyclonic Storm “Tauktae” (pronounced as Tau’Te) over Eastcentral and adjoining Southeast Arabian Sea moved north-northwestwards and lay centred at 0830 hours IST of today, the 15th May, 2021 over eastcentral and adjoining southeast Arabian Sea near latitude 12.8°N and longitude 72.5°E, about 190 km north-northwest of Amini Divi, 330 km south-southwest of Panjim-Goa, 930 km south-southeast of Veraval (Gujarat) and 1020 km south-southeast of Karachi (Pakistan). It is very likely to intensify further into a Severe Cyclonic Storm during next 6 hours and into a Very Severe Cyclonic Storm during the subsequent 12 hours. It is very likely to move north-northwestwards and cross Gujarat coast between Porbandar & Naliya around 18th May Afternoon / evening.
- Under its influence, heavy to very heavy falls at a few places and extremely heavy falls at isolated places very likely over Kerala and over Coastal and adjoining Ghat districts of Karnataka on 15th and heavy to very heavy falls at isolated places very likely over the same area on 16th; heavy to very heavy falls at a few places very likely over south Konkan & Goa and heavy to very heavy falls at isolated places over north Konkan on 15th and heavy to very heavy falls at a few places over Konkan & Goa & adjoining Ghat areas on 16th; heavy to very heavy falls at isolated places over Saurashtra & Kutch and extremely heavy falls at isolated places (in Junagarh & Gir Somnath Districts) on 17th and heavy to very heavy falls at a few places over Saurashtra & Kutch with extremely heavy falls (≥ 20 cm) at isolated places (Porbandar, Devbhoomi Dwarka, Jamnagar & Kutch districts) on 18th May.
- Tidal wave of about 2- 3 m above astronomical tide is likely to inundate coastal areas of Morbi, Kutch, Devbhoomi Dwarka & Jamnagar districts and 1-2 meters along Porbandar, Junagarh, Gir Somnath, Amreli, Bhavnagar and 0.5 to 1m over the remaining coastal districts of Gujarat during the time of landfall of the system. Fishermen are advised not to venture into Southeast Arabian Sea, Lakshadweep – Maldives areas, East central Arabian Sea along & off Karnataka coast, Eastcentral Arabian Sea and along & off Maharashtra – Goa coasts and into Eastcentral&

adjoining Northeast Arabian Sea along & off Gujarat coast till 18th May. Those who are out at Sea over north Arabian Sea are advised to return to the coast.

- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hour IST of yesterday to 0830 hours IST of yesterday): at most places over Coastal Karnataka, Kerala & Mahe and Lakshadweep; at many places over South Interior Karnataka, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Nagaland, Manipur, Mizoram & Tripura; at a few places over Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands and at isolated places over Assam & Meghalaya, Himachal Pradesh and West Uttar Pradesh .
- Rainfall observed (from 0830 hour IST of yesterday to 0830 hours IST of today): Very heavy to extremely heavy rainfall observed at isolated places over Kerala & Mahe; heavy to very heavy rainfall at a few places over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Lakshadweep; heavy rainfall at isolated places over Arunachal Pradesh, Vidarbha and Coastal Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Uttar Pradesh, West Rajasthan, Bihar, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Vidarbha, Telangana, Coastal & North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Duststorm observed at isolated places over Rajasthan. Hailstorm observed at isolated places over Telangana.
- Maximum Temperature Departures as on 14-05-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Andaman & Nicobar Islands; above normal (1.6°C to 3.0 °C) at a few places over Saurashtra & Kutch and Konkan & Goa and at isolated places over Coastal Karnataka. They were markedly below normal (-5.1°C or more) at many places over Kerala & Mahe; at a few places over Arunachal Pradesh and Lakshadweep and at isolated places over Odisha; appreciably below normal (-3.1°C to -5.0°C) at many places over East Uttar Pradesh and Chhattisgarh; at a few places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Nagaland, Manipur,

Mizoram & Tripura, West Uttar Pradesh, Telangana and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at most places over North Interior Karnataka; at a few places over West Rajasthan, East Madhya Pradesh and South Interior Karnataka and at isolated places over East Rajasthan, West Madhya Pradesh, Jharkhand, Rayalaseema and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest Maximum Temperature of 43.0 °C was reported at Akola (Vidarbha).

- Minimum Temperature Departures as on 15-05-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Madhya Maharashtra and Marathwada; at many places over North Interior Karnataka and Andaman & Nicobar Islands; at a few places over Gangetic West Bengal and Konkan & Goa and at isolated places over Odisha and Gujarat State. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and isolated places over Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over Kerala & Mahe; at many places over Arunachal Pradesh, East Rajasthan, Chhattisgarh, Coastal Karnataka and Lakshadweep; at a few places over Assam & Meghalaya, West Uttar Pradesh and Vidarbha; at isolated places over Himachal Pradesh and Madhya Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C reported at Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 15 May (Day 1): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over East Madhya Pradesh; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over West Madhya Pradesh, Vidarbha, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Kerala & Mahe and Lakshadweep and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Gujarat state and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Kerala & Mahe and Karnataka (Coastal & adjoining ghat areas); Heavy to Very Heavy Rainfall at a few places over Konkan & Goa and at isolated places over Lakshadweep and Tamil Nadu, Puducherry &

Karaikal and Heavy Rainfall at isolated places over Madhya Maharashtra and Rayalaseema. Gale Wind (speed reaching 75-85 kmph gusting to 95 kmph) very likely over eastcentral Arabian Sea & adjoining southeast Arabian sea and Lakshadweep area. Squally Wind (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Maldives area & Equatorial Indian Ocean during next 6 hours. Squally Wind (speed reaching 50-60 kmph gusting to 70 kmph) very likely along & off Kerala coast, Karnataka , South Maharashtra & Goa Coasts. Sea conditions will be very rough over southeast Arabian Sea and adjoining Lakshadweep-Maldives area and Equatorial Indian Ocean during next 6 hours. High to very high over Eastcentral Arabian Sea; rough to very rough over Comorin area and along & off Kerala coast; very rough to high over Eastcentral Arabian Sea and along & off Karnataka coast, Maharashtra-Goa coasts. Fishermen are advised not to venture into these areas.

- 16 May (Day 2): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan and Madhya Pradesh; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Vidarbha, Chhattisgarh, Odisha, Madhya Maharashtra, Gujarat state, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan. Heavy to Very Heavy Rainfall very likely at a few places over Konkan & Goa and at isolated places over Kerala & Mahe and Karnataka (Coastal & adjoining ghat areas) and Heavy rainfall at isolated places over Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Gale Wind (speed reaching 120-130 kmph gusting to 145 kmph) very likely eastcentral Arabian Sea from 16th May morning. Gale Wind (speed reaching 60-70 kmph gusting to 80 kmph) very likely along and off Maharashtra & Goa Coasts. Sea conditions will be very high to phenomenal over east central Arabian Sea; very rough to high over along and off Maharashtra & Goa Coasts. Fishermen are advised not to venture into these areas.
- 17 May (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan and West Madhya Pradesh; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over West Uttar Pradesh, East Madhya Pradesh, Rayalaseema, Coastal &

South Interior Karnataka, Kerala & Mahe and Lakshadweep and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Vidarbha, Andaman & Nicobar Islands, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan. Heavy to Very Heavy Rainfall with Extremely Heavy Falls very likely at isolated places over Saurashtra & Kutch and Heavy Rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Gujarat Region, Coastal & South Interior Karnataka, north Konkan, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally Wind (speed reaching 40-50 kmph gusting to 60 kmph) likely over Northeast Arabian Sea and along & off south Gujarat and Daman & Diu coasts from 17th Morning. Sea conditions will be very high to phenomenal over Northeast Arabian Sea; very rough to high over Northeast Arabian Sea along & off south Gujarat coast. Fishermen are advised not to venture into these areas.

- 18 May (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Rajasthan; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places likely over Saurashtra & Kutch; Heavy to Very Heavy Rainfall at isolated places over West Rajasthan and Kerala & Mahe and Heavy Rainfall at isolated places over East Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Gale Wind (speed reaching 150-160 kmph gusting to 175 kmph) very likely over Northeast Arabian Sea from 18th Morning and along & off Saurashtra & Kutch coasts (Devbhoomi Dwarka and Porbandar). Sea conditions will be very high to phenomenal over Northeast Arabian Sea along & off south Gujarat coast from 18th Morning. Fishermen are advised not to venture into these areas.

- 19 May (Day 5):Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep and with lightning at isolated places over East Uttar Pradesh, SubHimalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy to Very Heavy Rainfall likely at isolated places over West Rajasthan and Kerala and Mahe and Heavy Rainfall at isolated places over Himachal
- The weather outlook for seven days i.e., 15 May to 23 May 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)

Gujarat

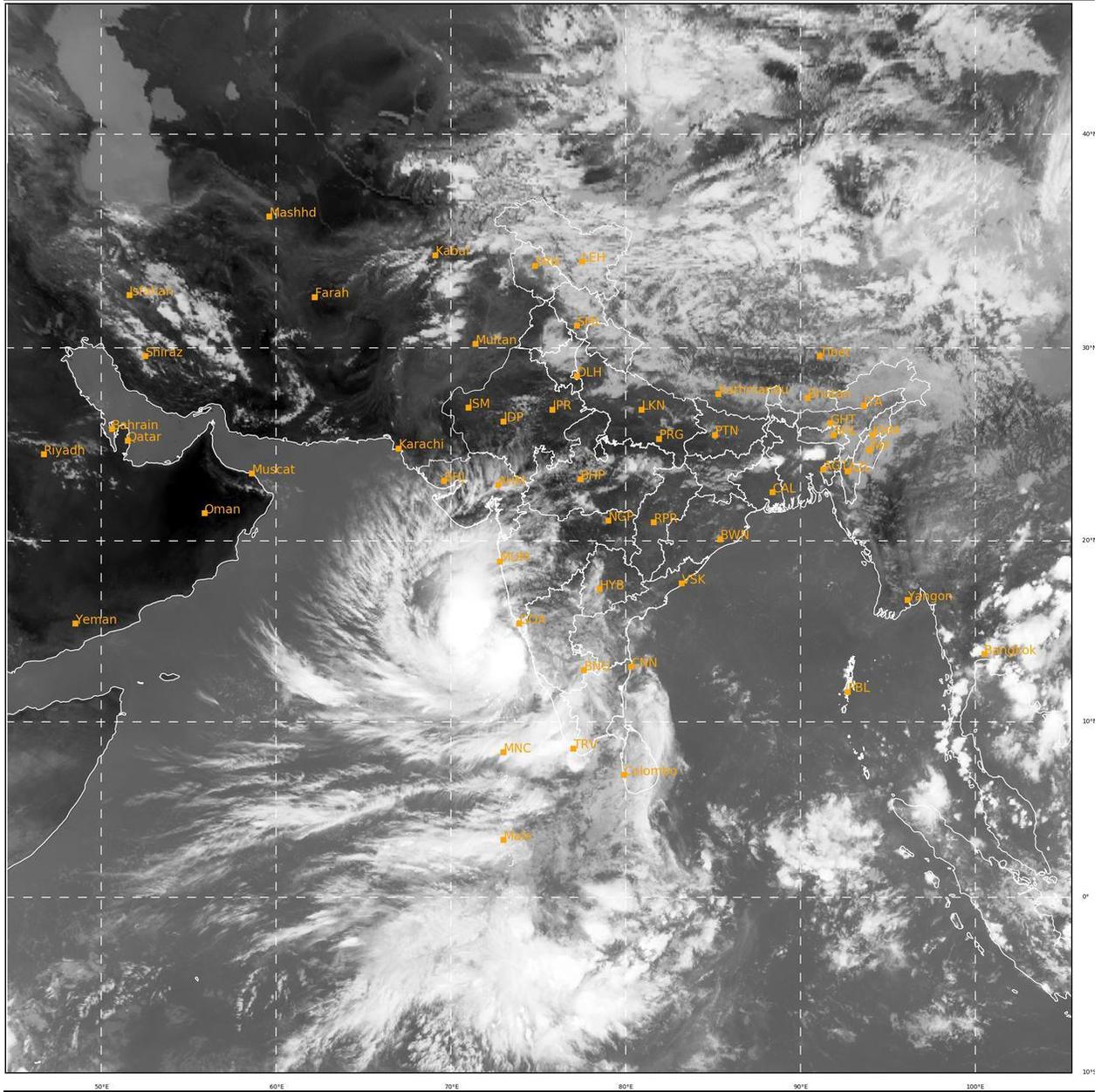
Weather condition:

The actual maximum temperature was 0.1 °C lower and the actual minimum temperature was 1.4 °C higher as compare to their normal. Total BSS was 72.5 hrs. with an average of 10.4 hrs. The daily average evaporation and wind speed was 9.3 mm and 4.7 km/hr respectively. The daily average RH during morning and afternoon was 70.4 % and 32.9 % respectively.

Contingency measure:

- Weeding, interculturing and irrigation should be done in summer crops like pearl millet, green gram, cow pea,okra etc. if required.
- Summer greengram :For effective control of whitefly infestation and other sucking pest infestation observed spray neem oil @ 50ml/15 liter or Imidachlopride 17.8 SL @ 5ml/15 liter or Acetamiprid 20% SP @ 3 g/15 liter. Use 10 pheromone trap per acre for management of sucking pest.
- Brinjal: Growth: Fruit and Shoot borer: If infestation found install 40 pheromone trap. Change lure at 21 day interval. And spray Diclorovos 76 EC 7 ml or Deltamethrin 1% + Triazophos 36% EC 10 ml in 10 lit water. Uproot and burn little leaf diseases infected brinjal plant and spray any systemic insecticide.

- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Banana : Apply irrigation at an interval of 4 to 5 days as per requirement of crop in summer season. Spraying with zinc sulphate 0.5% or ferrous sulphate 0.2% in banana crop at flowering stage for improving quality and yield.
- Mango: Reduction of high temperature effect of mango fruits can be managed by irrigating the orchard. Install nauroji fruit fly trap @ 10 trap per hector in mango orchard nearby to sapota orchard.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Due to starting of summer season, it is ensure that animals get drinkable water round the clock, if not possible than after give adlib water atleast 4 - 5 time in a day. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. FMD vaccination should be done.



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Figure: 1. Latest available satellite picture as on 15 May 2021 at 1356 Hrs (IST). (Source: IMD).

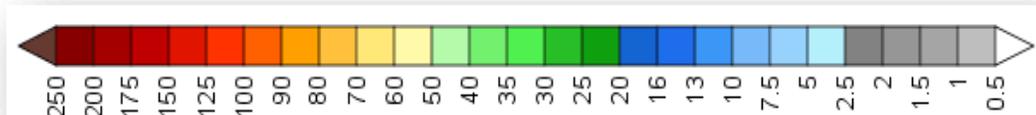
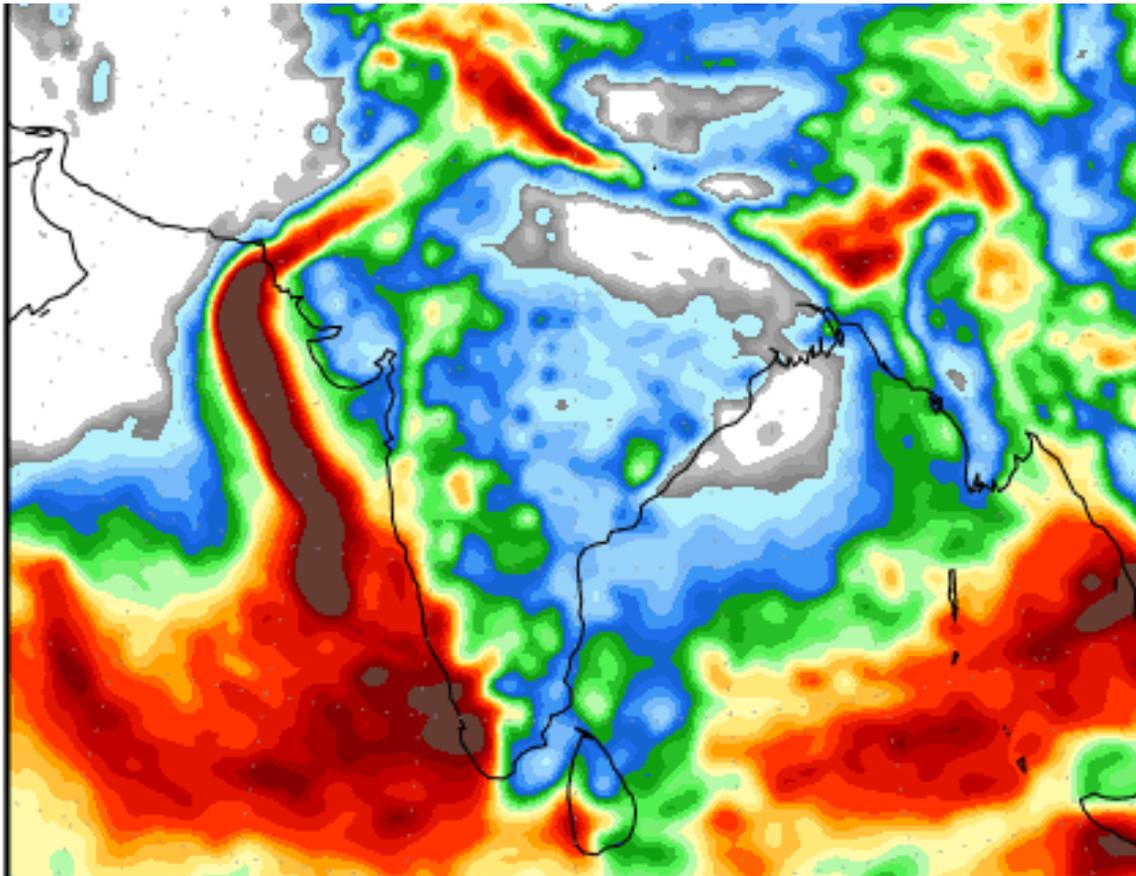


Figure:2. Precipitation forecast for 15 May to 23 May 2021 (Source: NOAA NCEP).

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