

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

Daily Crop Weather Information as on 17 May 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Extremely Severe Cyclonic Storm “Tauktae” (pronounced as Tau’Te) over Eastcentral Arabian Sea moved northnorthwestwards and lay centred at 0830 hours IST of today, the 17th May, 2021 over Eastcentral Arabian Sea near latitude 18.8°N and longitude 71.5°E, about 150 km west of Mumbai, 220 km south-southeast of Diu, 260 km southeast of Veraval (Gujarat) and 490 km eastsoutheast of Karachi (Pakistan);It is very likely to move north-northwestwards and reach Gujarat coast in the evening hours of 17th & cross Gujarat coast between Porbandar & Mahuva (Bhavnagar district) during the night (2000 - 2300 hrs IST) of 17th May with a maximum sustained wind speed 155-165 kmph gusting to 185 kmph.
- Under its influence, rainfall at most places with: heavy to very heavy falls at a few places and extremely heavy falls at isolated places very likely over Saurashtra, Diu and adjoining Gujarat region on 17th & heavy to very heavy falls at a few places over Gujarat region and heavy to very heavy falls at isolated places over Saurashtra on 18th ;isolated heavy to very heavy rainfall likely over Kutch during 17-18 ; heavy to very heavy falls and extremely heavy falls at isolated places very likely over Konkan on 17th May and isolated heavy rainfall over north Konkan on 18th May; rainfall at many places with heavy to very heavy falls & extremely heavy falls at isolated places very likely over south Rajasthan on 18th & heavy to very heavy falls at isolated places over Rajasthan on 19th May.
- Total suspension of fishing operations and fishermen are advised not to venture into Eastcentral Arabian Sea, Northeast Arabian Sea and along & off Gujarat, Daman, Diu, Dadra & Nagar Haveli coasts and along & off Maharashtra - Goa coasts till the Noon of 18th May.
- Tidal wave above astronomical tide of : about 3 -4 meter (m) over Anand & Amreli, Gir Somnath, Diu, Bhavnagar, 2-3 m over Bharuch, southern parts of Ahmedabad, 1-2 m over Surat, Navsari, Valsad and 0.5 - 1m over the remaining coastal districts of Gujarat is likely to inundate coastal areas of Gujarat during the time of landfall of the system.

- Remnants of the above system is likely to cause fairly widespread to widespread rainfall/thunderstorms along with isolated heavy to very heavy rainfall over Western Himalayan Region and over adjoining plains of northwest India during 19-20 May 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 Coastal Karnataka, Konkan & Goa, Assam & Meghalaya and Kerala & Mahe; at many places over Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, West Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and Vidarbha; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Madhya Pradesh, Telangana, Gujarat Region, Marathwada, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka and at isolated places over Andaman & Nicobar Islands, Saurashtra & Kutch, Uttar Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Chhattisgarh and East Rajasthan.
- Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places observed over Konkan & Goa and heavy to very heavy rainfall at isolated places over Tamilnadu and heavy rainfall at isolated places over Coastal Karnataka, Kerala & Mahe.
- Thunderstorm observed (from 2030 hours IST of yesterday to 0830 hours IST of today): at isolated places over Gujarat, Vidarbha, Madhya Pradesh, Konkan & Goa, Tamilnadu and Coastal Andhra Pradesh & Yanam. Thundersquall observed at isolated places over Vidarbha.
- Maximum Temperatures Departures as on 16-05-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Gujarat Region; above normal (1.6°C to 3.0 °C) at isolated places over Uttarakhand and Uttar Pradesh. They were markedly below normal (-5.1°C or less) at most places over North Interior Karnataka; at many places over Madhya Maharashtra and Marathwada; at many places over Telangana; at a few places over Kerala & Mahe; at isolated places over interior Tamilnadu, Coastal Andhra Pradesh & Yanam and east Assam & Meghalaya; appreciably below normal (-3.1°C to -5.0°C) at most places over Coastal Karnataka; a few places over South Interior Karnataka, East Madhya

Pradesh and Vidarbha; at isolated places over Konkan & Goa; below normal (-1.6°C to -3.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Chhattisgarh; at a few places over Odisha, Rajasthan; at isolated places over West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest Maximum Temperature of 44.0°C was reported at Gandhinagar (Gujarat Region).

- Minimum Temperature Departures as on 17-05-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Saurashtra & Kutch, West Rajasthan and Bihar; at isolated places over East Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over Andaman & Nicobar Islands and West Bengal & Sikkim; at a few places over Odisha. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Madhya Pradesh; at isolated places over Himachal Pradesh and Telangana; below normal (-1.6°C to -3.0°C) at many places over Konkan & Goa; at a few places over Haryana, Chandigarh & Delhi, East Rajasthan, Vidarbha and Kerala & Mahe; at isolated places over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.4°C reported at Seoni (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 17 May (Day 1): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over West Madhya Pradesh; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, East Madhya Pradesh, Vidarbha, Jharkhand and Kerala & Mahe and with lightning at isolated places over Haryana, Chandigarh & Delhi, West Bengal & Sikkim, Andaman & Nicobar Islands, Gujarat state, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Gujarat state & Diu; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over Konkan & Goa and adjoining Madhya Maharashtra and Heavy Rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Coastal & South Interior Karnataka and north Kerala. Gale Wind (speed reaching 155-165 kmph gusting to 185 kmph) very likely over along & off Gujarat coast (Junagarh, Gir Somnath, Amreli, Bhaunagar): speed reaching 120-140 kmph gusting to 165 kmph over Bharuch, Anand, south Ahmedabad, Botad; speed

reaching 90-100 kmph gusting to 120 kmph over Devbhoomi Dwarka, Jamnagar, Porbandar, Rajkot, Morbi, Kheda districts of Gujarat from tonight till 18th early morning; speed reaching 80-90 kmph gusting to 100 kmph over Dadra & Nagar Haveli, Daman, Valsad, Navsari, Surat, Surendranagar districts from 17th evening till 18th morning. Gale Wind (speed reaching 180-190 kmph gusting to 210 kmph) very likely over eastcentral during next 6 hours; speed reaching 90-100 kmph gusting to 110 kmph prevailing over northeast Arabian Sea and would gradually increase becoming 170-180 kmph gusting to 200 kmph from evening for subsequent 6 hours and decrease thereafter and speed reaching 70-80 kmph gusting to 90 kmph along & off south Gujarat and Daman & Diu coasts; speed reaching 80-90 kmph gusting to 100 kmph along & off Maharashtra coast and gradually decrease thereafter. Squally wind (speed reaching 45-55 kmph) over Lakshadweep area and along & off Kerala-Karnataka coasts. Sea conditions will be phenomenal over eastcentral & adjoining northeast Arabian Sea till 18th morning and improve gradually thereafter; high to very high along and off Maharashtra coasts during next 12 hours and improve thereafter; high along & off south Gujarat, Daman, Diu, Dadra & Nagar Haveli coasts during next 6 hours becoming phenomenal till 18th morning and gradually improve thereafter. Fishermen are advised not to venture into these areas.

- 18 May (Day 2): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Haryana, Chandigarh & Delhi and West Madhya Pradesh; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, East Madhya Pradesh, Vidarbha, Jharkhand and Assam & Meghalaya and Kerala & Mahe and with lightning at isolated places over Himachal Pradesh, Punjab, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm/Squall (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over south Rajasthan; Heavy to Very Heavy Rainfall at a few places over Gujarat Region and at isolated places over Assam & Meghalaya and Saurashtra & Kutch and Heavy Rainfall at isolated places over Uttarakhand, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, north Konkan, Coastal & South Interior Karnataka and Kerala & Mahe. Gale Wind

(speed reaching 80-90 kmph gusting to 100 kmph) very likely over Dadra & Nagar Haveli, Daman, Valsad, Navsari, Surat, Surendranagar districts till 18th morning. Sea conditions will be phenomenal over eastcentral & adjoining northeast Arabian Sea till 18th morning and improve gradually thereafter; phenomenal along & off south Gujarat, Daman, Diu, Dadra & Nagar Haveli coasts till 18th morning and gradually improve thereafter. Fishermen are advised not to venture into these areas.

- 19 May (Day 3): Thunderstorm with lightning, hail & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Uttarakhand; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi and Rajasthan; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Uttar Pradesh, Bihar, Jharkhand, Telangana and Kerala & Mahe and with lightning at isolated places over West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy to Very Heavy Rainfall at isolated places very likely over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Arunachal Pradesh and Assam & Meghalaya and Heavy Rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.
- 20 May (Day 4): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh; with lightning & gusty wind (speed reaching 30-40 kmph) likely at a few places over Uttarakhand and at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, Telangana and Kerala & Mahe and with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. ♦Heavy Rainfall at a few places with Very Heavy Rainfall at isolated places likely over Uttarakhand; Heavy Rainfall to Very Heavy Rainfall at isolated places over Arunachal Pradesh; Heavy Rainfall at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar

Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.

- 21 May (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Kerala & Mahe and with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy Rainfall likely at isolated places over Tamilnadu, Puducherry & Karaikal, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- The weather outlook for seven days i.e., 17 May to 25 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)

Tamil nadu

Weather condition:

Maximum temperature: 36.5°C (normal 37.6°C), minimum temperature: 25.3°C (normal 23.7°C), rainfall: 0.0 mm (normal 16.6 mm). The maximum and minimum temperature were 1.1°C and 1.6°C below & With respect to daily rainfall, at isolated places over Tamil Nadu from 30.04.2021 to 05.05.2021 during this week.→ Minimum temperature range of 24°C - 29°C prevailed over the state except Kodaikanal and Uthagamandalam (10°C - 12°C) during the period under report. → Maximum temperature range of 34°C - 40°C prevailed over the state except Kodaikanal and Uthagamandalam (18°C - 24°C) during the period under report. →above normal respectively and rainfall was 16.6 mm below normal across the week. General weather situation in Tamil Nadu:

Contingency measure:

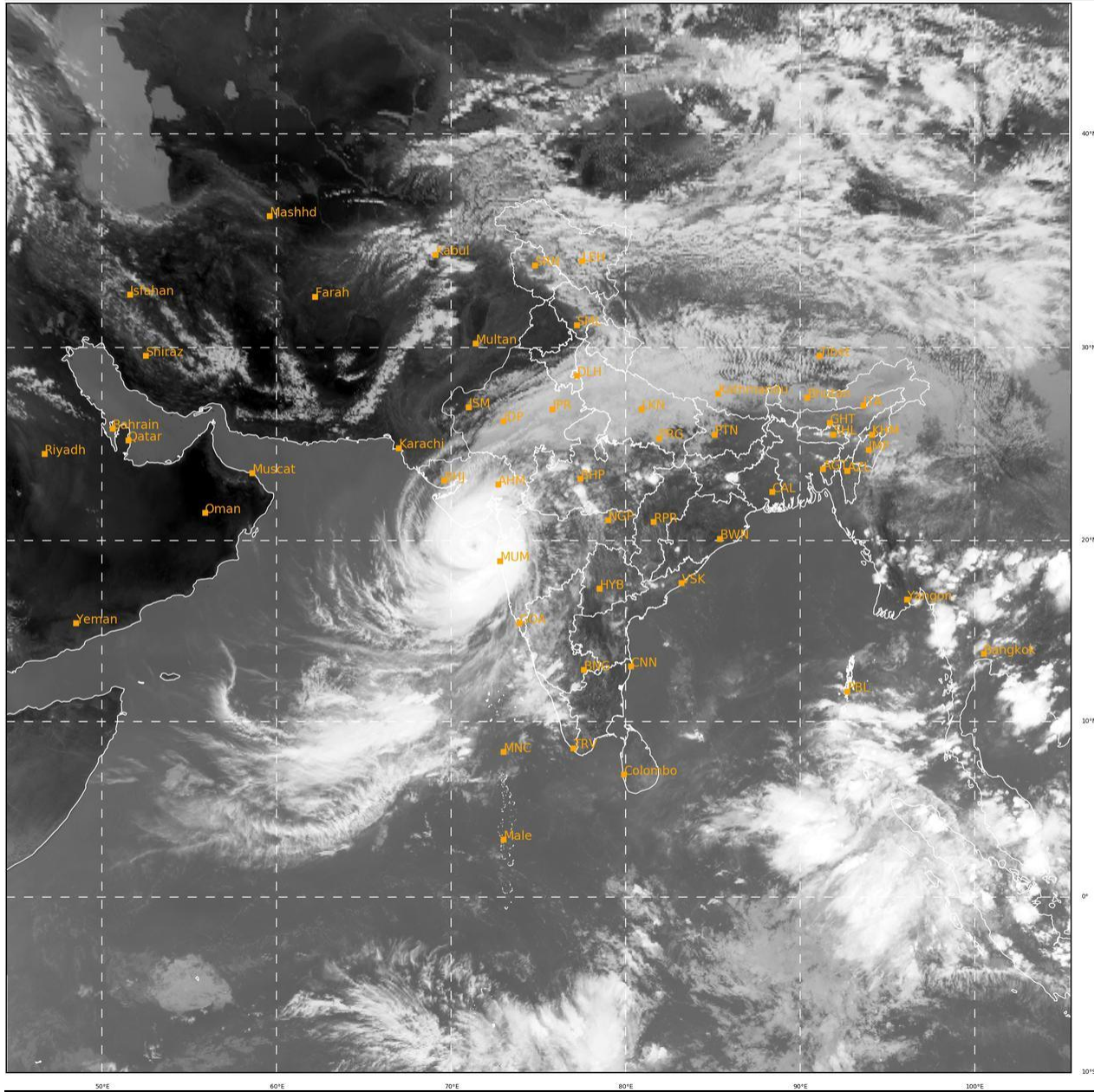
- Irrigated crops -Water management -Very Light to heavy rainfall is predicted for next five days. Postpone the irrigation. Harvest - Agricultural crops may be harvested within two days and kept under stored condition. Drainage- Moderate rainfall is predicted hence, the field may be provided with proper drainage facilities. Green manure -Utilize the rainfall by sowing the green manure crops to increase the soil fertility. Dry land cultivation -Crop residue recycling -In order to improve the soil quality recycles the residues of harvested crops of maize,

sorghum and pulses. Use rotovator or rotoasher for cutting the residues into small pieces and incorporate them into the soil.

- Jasmine- Flowering stage -Prevailing weather is conducive for Blossom midge. Spray Thiamethoxam 2.5% WG @ 0.75 g/litre (or) Novaluron 3ml/lit. of water.
- Citrus- Citrus Canker- The prevailing weather condition is conducive for incidence of citrus canker disease, spray of Copper oxychloride (COC) @ 0.3% followed by 4 sprayings with Streptocyclin 100 ppm + COC @ 0.3 % at monthly intervals after pruning.
- Animal husbandry -Bluetongue Livestock Disease Forecast of May month Blue tongue and Foot and mouth diseases low risk Tamil Nadu Next five days -
- Heavy Rainfall Warning - Day 1(11.05.2021): Heavy Rainfall is likely to occur at isolated places over Kanyakumari and Tirunelveli districts. Day 4 (14.05.2021): Heavy Rainfall is likely to occur at isolated places over Kanyakumari and Tirunelveli, Thenkasi and Theni districts. Day 5(15.05.2021): Heavy to very heavy Rainfall is likely to occur at isolated places over south Tamilnadu.
- Weather Warning - Thunderstorm with Light to moderate rain is likely to occur at isolated places over South Tamilnadu, Salem, Dharmapuri, Krishnagiri, Vellore, Tirupattur and Ranipettai, western Ghats districts, delta districts and Karaikal on Day 1 (11.05.21). Thunderstorm with Light to moderate rain is likely to occur at isolated places over South Tamilnadu, Salem, Dharmapuri, Krishnagiri, Vellore, Tirupattur and Ranipettai, western Ghats districts, delta districts and Karaikal on Day 2 (12.05.21). Thunderstorm with Light to moderate rain is likely to occur at isolated places over south Tamilnadu and Western Ghat districts Tamilnadu on Day 3 (13.05.21). Thunderstorm with Light to moderate rain is likely to occur at a few places over Western Ghat districts, south Tamilnadu, north interior Tamilnadu, Delta districts and Karaikal on Day 4 (14.05.21). Thunderstorm with Light to moderate rain is likely to occur at many places over Tamil Nadu, Puducherry& Karaikal on Day5 (15.05.21)
- Temperature Warning - Day 1(11.05.2021) & Day 2(12.05.2021): Due to Surface winds from Westerly or Northwesterly direction, Maximum Temperature is likely to raise 2-30C (from the existing temperature) over coastal and adjoining interior districts of Tamil Nadu.
- Thunderstorm Warning- Day 1(11.05.2021) to Day 5(15.05.2021): Thunderstorm with lightning is likely to occur at isolated places over Tamilnadu. Extended range forecast- Consecutive one week Week 16.05.2021 to 22.05.2021 rainfall predicted to be above normal. Maximum and Minimum temperature is predicted to be normal.

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

17-05-2021/(0830 to 0856) GMT
17-05-2021/(1400 to 1426) IST



226

952

IMD, DELHI

Figure: 1. Latest available satellite picture as on 17 May 2021 at 1426 Hrs (IST). (Source: IMD).

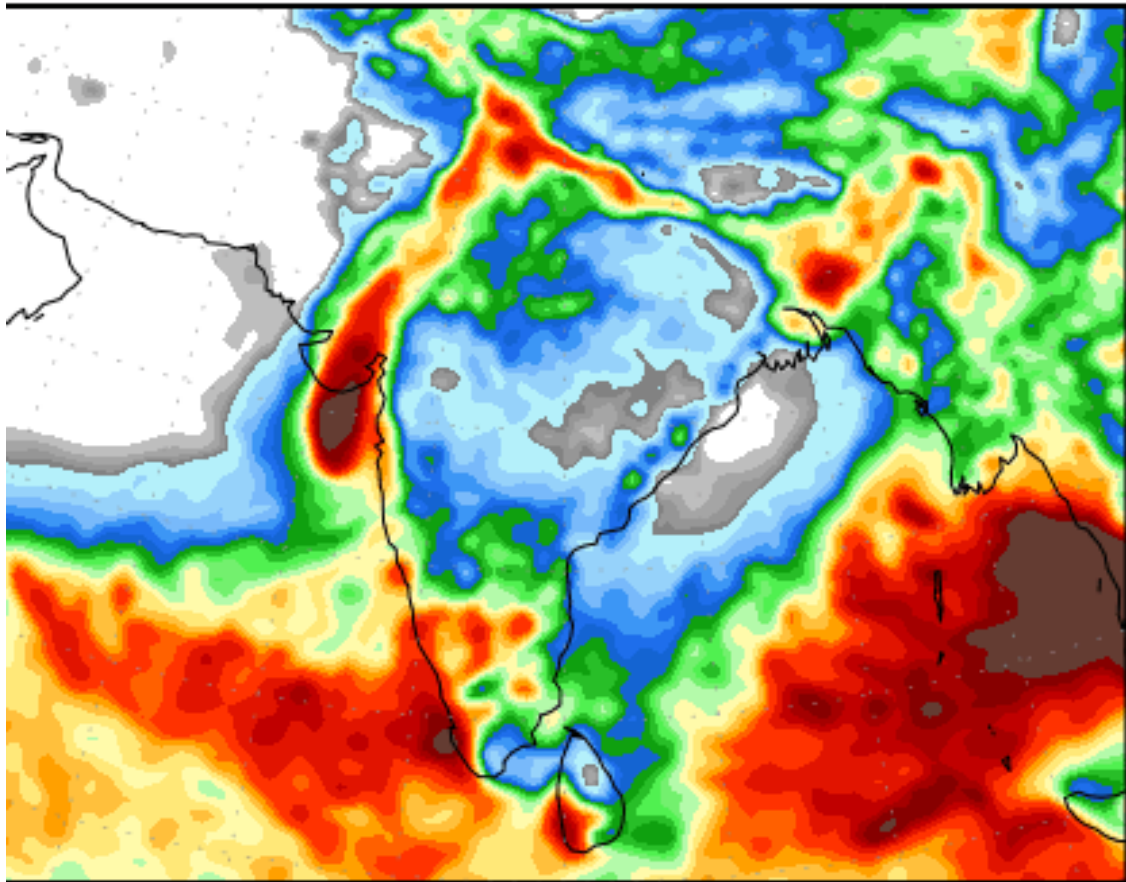


Figure:2. Precipitation forecast for 17 May to 25 May 2021 (Source: NOAA NCEP).

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