

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

Daily Crop Weather Information as on 26 May 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Advancement of Southwest Monsoon:
- Southwest Monsoon has further advanced into some parts of Southwest Arabian Sea, some more parts of Southeast Arabian Sea, Maldives & Comorin area and South Bay of Bengal. The Northern Limit of Southwest Monsoon continues to pass through 7.5°N/60°E, 7.5°N/70°E, 7.5°N/79°E, 8.0°N/83°E, 11.5°N/89°E, 16.0°N/93°E and 18.0°N/94.5°E.
- Conditions are favorable for further advance of Southwest Monsoon over some more parts of South Arabian Sea, entire Maldives & adjoining areas of Lakshadweep and some more parts of Comorin area during next 48 hours.
- Advance of monsoon over Kerala is being continuously monitored.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of east-west trough from northwest Rajasthan to Interior Odisha and a cyclonic circulation over north Bihar & neighbourhood at lower tropospheric levels: i) Scattered to fairly widespread light/moderate rainfall very likely over Northeast India and isolated to scattered rainfall with isolated thunderstorm/lightning/gusty winds over Bihar, Jharkhand, Odisha and West Bengal & Sikkim during next 5 days. ii) Isolated heavy rainfall also likely over Arunachal Pradesh on 26th & 30th ; over Assam-Meghalaya on 26th, 27th, 29th & 30th May and over Nagaland, Manipur, Mizoram & Tripura on 26th, 27th & 29th and over, 2022.
- Under the influence of a north-south trough from North interior Karnataka to Comorin area and westerly winds from Arabian Sea over the south peninsular India in lower tropospheric levels: i) Widespread light/moderate rainfall with thunderstorm/lightning very likely over Kerala & Mahe & Lakshadweep and isolated to scattered rainfall over Andhra Pradesh, Telangana, Karnataka and Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated heavy rainfall also likely over Kerala & Mahe and north Tamilnadu on 26th & 27th May. ii) Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea during next 5 day; over southeast Arabian Sea along & off

Kerala coast & Lakshadweep area on 26th & 27th and over northeast Arabian Sea & adjoining Gujarat coast during 27th-29th May.

- Under the influence of a fresh approaching Western Disturbance: i) Scattered light/moderate rainfall with isolated thunderstorm/lightning/gusty winds very likely over Jammu & Kashmir, Himachal Pradesh and isolated rainfall over Uttarakhand, Punjab, Uttar Pradesh, East Rajasthan on 28th & 29th May. Isolated hailstorm likely over Himachal Pradesh & Uttarakhand on 27th May and over Jammu & Kashmir on 28th May. ii) Duststorm activity at isolated places very likely over West Rajasthan on 28th & 29th May. Heat wave warnings: Heat Wave conditions at isolated pockets very likely over southwest Rajasthan on 28th & 29th May, 2022.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe; at many places over Lakshadweep and Sub-Himalayan West Bengal & Sikkim; at a few places over Assam & Meghalaya, East Madhya Pradesh, Vidarbha, Jharkhand and Gangetic West Bengal and at isolated places over Jammu & Kashmir, Uttarakhand, Bihar, Uttar Pradesh, Marathwada, Telangana, Chhattisgarh, Coastal Karnataka, Odisha, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Coastal Andhra Pradesh and at isolated places over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Telangana, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. ♦ Heavy rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Isolated heavy rainfall occurred over Kerala, Tripura, Assam and Sub-Himalayan West Bengal,
- Maximum Temperature Departures (as on 25-05-2022): Maximum temperatures were appreciably above normal (+3.1°C to +5.0°C) at isolated places over Assam & Meghalaya and Arunachal Pradesh; above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir-Gilgit-Baltistan & Muzaffarabad and Coastal Karnataka and at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Gangetic West Bengal. They were markedly below normal (-5.1 or less) at many [places over Haryana, Chandigarh & Delhi; at a few places over East Madhya Pradesh and at isolated places over West Uttar Pradesh;

appreciably below normal (-3.1°C to -5.0°C) at most places over Punjab; at many places over Himachal Pradesh; at a few places over East Uttar Pradesh and at isolated places over Rajasthan and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over Bihar, North Interior Karnataka and Uttarakhand; at many places over Jharkhand, Chattisgarh & South Interior Karnataka and at a few places over Vidarbha, Madhya Maharashtra and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.4°C was reported at Chandrapur (Vidarbha).

- Minimum Temperature Departures (as on 26-05-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir-Gilgit-Baltistan-Muzaffarabad and at a few places over Marathwada. They are markedly below normal (-5.1 or less) at isolated places over East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over Haryana, Chandigarh & Delhi and at isolated places over Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh; at a few places over East Uttar Pradesh, Bihar, Vidarbha and at isolated places over Himachal Pradesh, West Uttar Pradesh, Odisha, West Madhya Pradesh and 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 Narnaul (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 26 May (Day 1): Heavy rainfall at isolated places very likely over north Tamilnadu, Puducherry & Karaikal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala-Mahe and Assam & Meghalaya. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Chhattisgarh and with lightning at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Assam-Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Coastal Andhra Pradesh, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea; southeast Arabian Sea along & off Kerala coast and Lakshadweep Area. Fishermen are advised not to venture into these areas.
- 27 May (Day 2): Heavy rainfall at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, north Tamilnadu, Puducherry & Karaikal and Kerala-Mahe. Thunderstorm accompanied with lightning/hail at isolated places likely over Himachal Pradesh and Uttarakhand;

with gusty winds (speed 30-40 kmph) at isolated places over Gangetic West Bengal and with lightning at isolated places over Jammu & Kashmir, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Coastal Andhra Pradesh, Telangana, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea; northeast Arabian Sea adjoining Gujarat coast and southeast Arabian Sea along & off Kerala coast and Lakshadweep Area. Fishermen are advised not to venture into these areas.

- 28 May (Day 3): Thunderstorm accompanied with lightning & hail at isolated places very likely over Jammu & Kashmir; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Bihar and Gangetic West Bengal and with lightning at isolated places over Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Duststorm/Thunderstorm with with gusty winds (speed 30-40 kmph) at isolated places very likely over West Rajasthan. Heat wave conditions in isolated pockets very likely over West Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea; northeast Arabian Sea adjoining Gujarat coast. Fishermen are advised not to venture into these areas.
- 29 May (Day 4): Heavy rainfall at isolated places likely over Assam-Meghalaya. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places over likely over Chhattisgarh, Bihar, Gangetic West Bengal and Jharkhand and with lightning at isolated places over Jammu & Kashmir, Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and Lakshadweep. Duststorm/Thunderstorm with with gusty winds (speed 30-40 kmph) at isolated places likely over West Rajasthan. Heat wave conditions in isolated pockets likely over West Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea; northeast Arabian Sea adjoining Gujarat coast. Fishermen are advised not to venture into these areas.
- 30 May (Day 5): Heavy rainfall at isolated places likely over Arunachal Pradesh, Assam-Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) likely at isolated places over Chhattisgarh and with lightning at isolated places over Jammu & Kashmir, East Madhya Pradesh, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 26 May to 03 Jun 2022 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)

Jammu

Weather condition:

Mainly clear weather prevailed during this week with no rainfall. The maximum temperature remained above normal by 1 to 7 0C and ranged from 39.6 to 44.2 0C. While the minimum temperature remained variable and ranged from 19.4 to 28.0 0C. The morning and afternoon relative humidity were observed in the range of 26 to 44 % and 19 to 31 %, respectively. The evaporation and sunshine remained in the range of 12.8 to 15.0 mm/day and 7.0 to 9.8 hrs, respectively.

Contingency measure:

- Rice: Nursery sowing Farmers may go for nursery sowing of early transplanted rice varieties. (var. IET-1410, K-39, Ratna, PC-19, Jaya) after receipt of rain. Treat seed with Carbendazim or Bavistin @2gm/Kg before nursery raising. Incorporate the FYM @ 10-15 tons/ ha in the field, where rice is to be transplanted Fallow land Soil solarization Plough the land once again after receipt of rain for soil solarization against insect pests and weed infestation. Incorporate well rotten F.Y.M. in the fields where Kharif maize and paddy nurseries are to be sown in June.
- Pulses: Summer pulses (moong/mash) Vegetative Postpone the irrigation to summer pulse due to chances of rainfall. Farmers may go for hoeing and weeding in crop to conserve soil moisture and proper aeration of the roots and to keep the weeds under check. Green Manuring in paddy Vegetative GM will maintain the soil fertility especially in rice,wheat system. The dose of phosphorus recommended for the rice crop to be taken after Daincha should be applied to daincha crop either through SSP or DAP.
- Vegetables: Cucurbits Tomato/brinjal Okra Turmeric/ginger fruiting Fruiting/fruiting. Vegetative Due to chances of rainfall postpone irrigation in summer vegetables. Install 5 pheromone traps per kanal to control fruit fly. Apply malathion @2ml/lit to control fruit. Timely harvest the matured fruit in order to avoid spoilage. Monitor tomato crop for leaf curl. Remove virus infected plants. Spray imidacloprid @ 0.5ml/lit of water to check further spread of disease by whitefly during clear weather. If yellow leaves (YVMV) are observed, uproot and

bury deep in soil and wash hands after that. Immediate Earthing up is recommended before rainfall. Keep the field free of weeds.

- Floriculture: Chrysanthemum Summer annuals Marigold Rose Vegetative Early vegetative Vegetative/Flowering Vegetative Give irrigation as per requirement. Hoeing and application of FYM is recommended during clear weather. Hoeing and weeding is recommended after receipt of rain. Suspend irrigation during rainy days. Hoeing and weeding is recommended. Fodder Summer fodder Vegetative Application of top dressing of nitrogenous fertilizer in summer fodder (maize+cowpea+charri) and bajra immediately after receipt of rainfall.
- Mushroom: Milky mushroom Spawn run Maintain temperature of cropping room between 25°C - 30°C for proper spawn run. Maintain 90-95% humidity in cropping rooms. Spray chlorothalonil @ 0.5% and deltamethrin @ 0.01% to control competitor fungi. Farmers interested in growing milky mushroom may book the spawn of milky mushroom as the season will continue up to end of July.
- Horticulture: Guava /Mango/ Citrus Young/Bearing Postpone irrigation to young plants due to chances of rainfall. Remove water suckers. White wash the tree trunks with slaked lime and copper sulphate against sunburn and fungal diseases after receipt of rain. Spray 2,4-D @ 10ppm against citrus fruit drop in citrus during clear weather. Spray copper oxychloride @ 3gm/lit during clear day in mango to check leaf blight and twig dieback.
- Sericulture: Mulberry Bivoltine cocoon crop Tree plantation Disinfection of rearing halls/ appliances Mulberry Farm/individual mulberry trees should be irrigated periodically at an interval of 15-20 days. Rigorous disinfection of used appliances in the recently completed spring rearing should be adopted with 2-14 per cent formaline solution.
- Apiculture: During rainfall, protect colonies from rain by reducing the entrance. Protect colonies from high temperature during non rainy days by shifting to shady areas or migrate to cooler places or cover them with wet gunny bags. To control mite, dust sulphur on top bars @ 1g/frame /oxalic acid treatment @ 3.5% / litre water during clear weather.
- Fisheries: Carp farming Fry/ yearlings Farmers who have stocked fish livestock in their ponds are advised to maintain proper water level in their fish ponds.
- Poultry: Proper hygiene should be maintained. Give vaccination against infectious bursal dermatitis IBD & Gumbroo at 7th & 14th day after birth. Adequate clean drinking water should be available all the time.
- Live stock: Dairy animals/ Sheep & Goat Plant shady trees around the sheds. Provide water bath 3-4 times in a day. Sprinkle water in sheds to reduce heat stress. Increase protein content in animal ration by 2%. Mineral mixture should

be supplemented in diet. Give vaccination against FMD. Livestock needs to be dewormed against strongyles in plain areas of Jammu. Provide adequate amount of fresh cool and clean drinking water.

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

26-05-2022/(0800 to 0827) GMT
26-05-2022/(1330 to 1357) IST

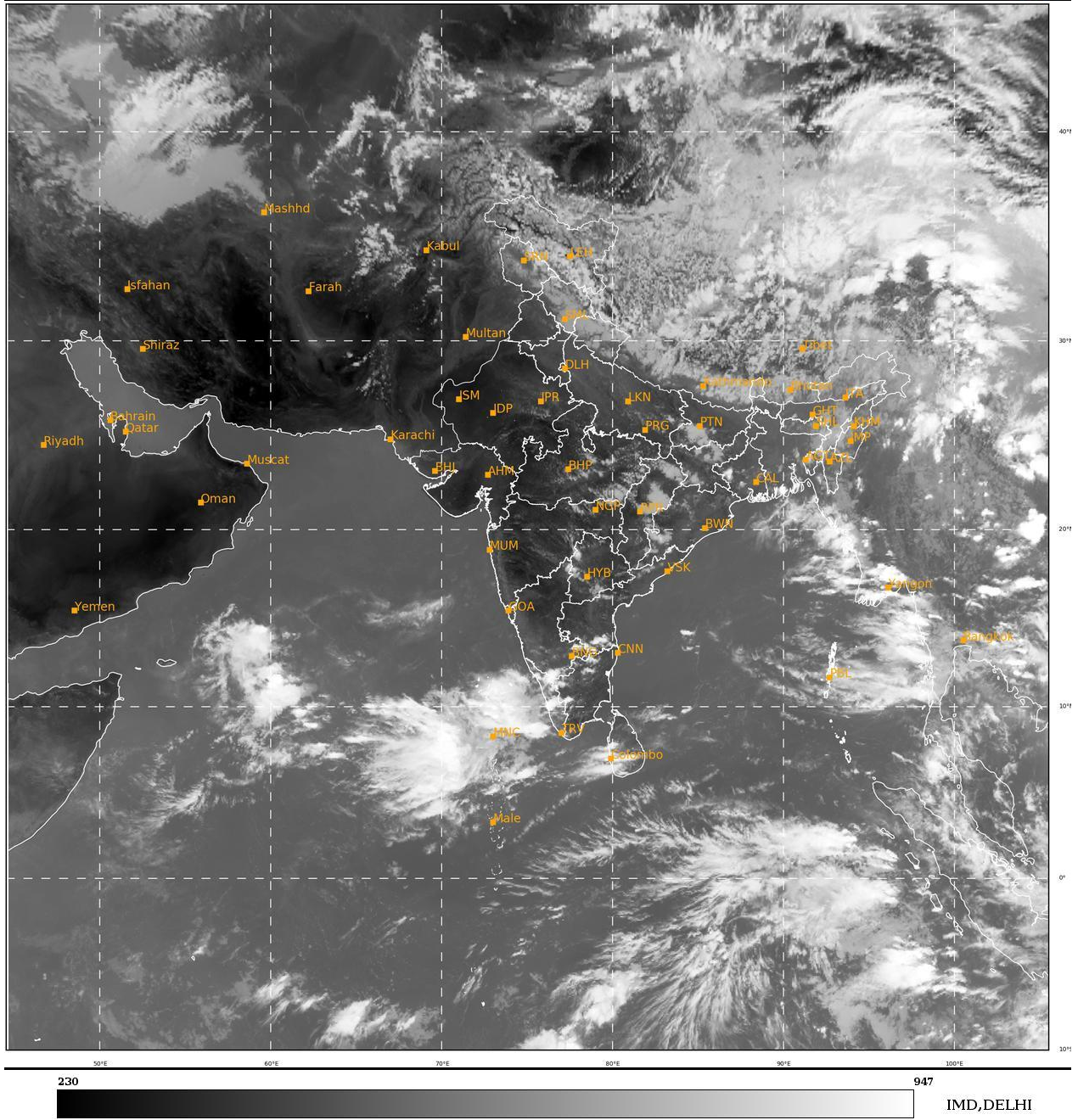


Figure: 1. Latest available satellite picture as on 26 May 2022 at 1357 Hrs (IST). (Source: IMD).

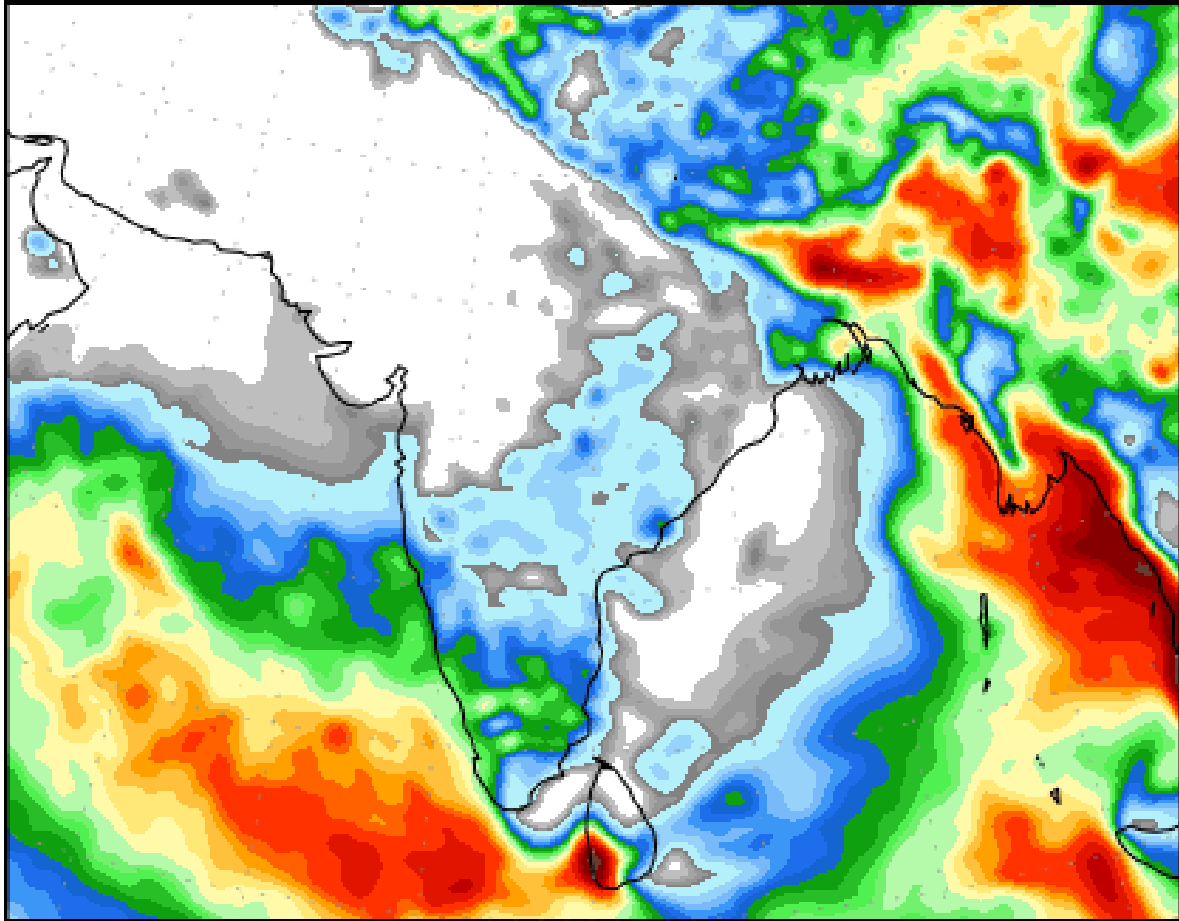


Figure:2. Precipitation forecast for 26 May to 03 Jun 2022 (Source: NOAA NCEP).

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