

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

Daily Crop Weather Information as on 02 May 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat wave conditions: Heat Wave conditions in isolated pockets of West Rajasthan & Kutch today and Heat wave conditions very likely to abate thereafter.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of southwesterly winds from Bay of Bengal over east & northeast India in lower tropospheric levels:
 - i) Fairly widespread/widespread rainfall very likely over Northeast India & Sub-Himalayan West Bengal-Sikkim during next 5 days with isolated thunderstorm/lightning/gusty winds (speed reaching 40-50 kmph) over the region during next 2 days.
 - ii) Isolated heavy rainfall very likely over Sub-Himalayan West Bengal-Sikkim on 02nd May; over Arunachal Pradesh on 02nd & 03rd; over Assam Meghalaya & Nagaland-Manipur-Mizoram-Tripura during 02nd-04th May. Isolated very heavy rainfall also likely over Assam-Meghalaya & Tripura 03rd May.
 - iii) Scattered to fairly widespread rainfall with isolated thunderstorm/lightning/gusty winds (speed reaching 40-50 kmph) very likely over Bihar, Jharkhand, Gangetic West Bengal & Odisha during next 5 days.
- Under the influence of a Western Disturbance as a trough in mid & upper tropospheric westerlies along Long.62°E & to the north of Lat.20°N:
 - i) Light/moderate isolated rainfall accompanied with thunderstorm/lightning very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during next 24 hours and likely to increase thereafter with scattered to fairly widespread rainfall with isolated thunderstorm/lightning/gusty winds (40-50 kmph) during 03rd-06th May. Isolated hailstorm likely over Himachal Pradesh & Uttarakhand on 03rd & 04th May, 2022.
 - ii) Isolated light rainfall with Duststorm/thunderstorm/lightning/gusty winds (40-50 kmph) very likely over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan during next 3 days.

- Due to trough/wind discontinuity over peninsular India in lower tropospheric levels:
 - i) Isolated to scattered rainfall with thunderstorm/lightning/gusty winds very likely over Kerala, Karnataka, Tamil Nadu, Andhra Pradesh and Telangana during next 5 days.
 - ii) Isolated heavy rainfall very likely over Kerala-Mahe on 04th May, 2022.
- A cyclonic circulation is likely to form over South Andaman Sea and neighbourhood around 04th May. Under its influence, a Low Pressure Area is likely to form over the same region around 06th May. It is likely become more marked during subsequent 24 hours. It is very likely to cause;
 - i) Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands on 05th and isolated heavy to very heavy rainfall on 06th May.
 - ii) Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over South Andaman Sea & adjoining north Andaman Sea and Eastcentral Bay of Bengal on 04th & 05th May and (speed reaching 50-60 kmph gusting to 70 kmph) likely to prevail over Andaman Sea adjoining Eastcentral & Southeast Bay of Bengal on 06th May. Fishermen are advised not to venture into these areas.
- 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 West Bengal-Sikkim; at many places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and Jharkhand; at a few places over Assam & Meghalaya, Bihar, South Interior Karnataka, Kerala & Mahe and Lakshadweep and at isolated places over Arunachal Pradesh, Odisha, Uttar Pradesh, Uttarakhand, Haryana, Himachal Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu.
- Heavy to very heavy rainfall observed at isolated places over Tamil Nadu and heavy rainfall at isolated places over Assam-Meghalaya.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Assam & Meghalaya and West Bengal & Sikkim and at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Bihar, Odisha, Jharkhand, Chhattisgarh, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu.

- Heat wave to severe heat wave conditions prevailed in most parts of West Rajasthan; in isolated pockets over Himachal Pradesh; heat wave conditions prevailed in isolated pockets over Vidarbha and East Madhya Pradesh.
- Maximum Temperature Departures (as on 01-05-2022): Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and West Rajasthan; at isolated places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan; at a few places over Haryana; at isolated places over East Madhya Pradesh, Saurashtra & Kutch and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Vidarbha; at many places over Uttarakhand, West Madhya Pradesh, Chhattisgarh, Telangana, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over Gujarat region, Rayalaseema and Coastal Andhra Pradesh & Yanam; at isolated places over Madhya Maharashtra. They were below Normal (-1.6°C to -3.0°C) at many places over East Uttar Pradesh; at a few places over Gangetic West Bengal and Kerala-Mahe; at isolated places over Odisha and Andaman & Nicobar Islands and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 47.1°C was reported at Bikaner (West Rajasthan).
- Minimum Temperature Departures (as on 02-05-2022): Minimum temperatures are markedly above normal (5.1°C or more) at most places over Punjab; at a few places over West Rajasthan; at isolated places over East Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand; at a few places over Haryana, Chandigarh & Delhi; at isolated places over Gujarat and Vidarbha; above normal (1.6°C to 3.0°C) at many places over Uttar Pradesh and Chhattisgarh; at a few places over West Madhya Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Rayalaseema. They are appreciably above normal (-3.1°C to -5.0°C) at many places over Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at isolated places over Assam & Meghalaya, East Madhya Pradesh, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 20.0°C is reported at Forbesganj (Bihar) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 02 May (Day 1): Thundersquall accompanied with lightning/gusty winds(speed 50-60 kmph) at isolated places very likely over Bihar, Gangetic West Bengal; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Sub-Himalayan

West Bengal & Sikkim, Jharkhand, Nagaland, Manipur, Mizoram & Tripura; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Assam & Meghalaya, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Telangana, Odisha, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Rayalaseema, Kerala & Mahe and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Arunachal Pradesh, Tamilnadu Puducherry-Karaikal and Lakshadweep. Heavy rainfall at isolated places very likely over Arunachal Pradesh, Assam-Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim. Heat wave conditions in isolated pockets very likely over West Rajasthan and Kutch. Duststorm/Thunderstorm/lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Punjab and Rajasthan and (speed 30-40 kmph) at isolated places over Haryana-Chandigarh-Delhi and Uttar Pradesh.

- 03 May (Day 2): Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph) & hail at isolated places very likely over Uttarakhand; with lightning/gusty winds (speed 50-60 kmph) at isolated places over Gangetic West Bengal; with lightning/gusty winds (speed 30-40 kmph) & hail at isolated places over Himachal Pradesh; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Nagaland, Manipur, Mizoram & Tripura; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Odisha, Telangana, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Rayalaseema, Kerala & Mahe and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh and Tamilnadu-Puducherry-Karaikal. Heavy to very heavy rainfall at isolated places very likely over Assam-Meghalaya and Nagaland, Manipur, Mizoram & Tripura and heavy rainfall at isolated places over Arunachal Pradesh. Duststorm/Thunderstorm/lightning/gusty winds (speed 50-60 kmph) at isolated places very likely over Punjab, Haryana-Chandigarh-Delhi and (speed 40-50 kmph) at isolated places over Uttar Pradesh and Rajasthan.
- 04 May (Day 3): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) & hail at isolated places likely over Himachal Pradesh, Uttarakhand; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Gangetic West Bengal, Odisha; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Andaman & Nicobar Islands, Jharkhand, Bihar, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Kerala-Mahe

and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh, Vidarbha, Chhattisgarh and Tamilnadu-Puducherry-Karaikal. Heavy rainfall at isolated places very likely over Kerala-Mahe, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Duststorm/thunderstorm/lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Rajasthan, Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over South Andaman Sea and adjoining north Andaman Sea & Eastcentral Bay of Bengal. Fishermen are advised not to venture into these areas. Heat wave conditions in isolated pockets very likely over north Madhya Maharashtra.

- 05 May (Day 4): Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places likely over Andaman & Nicobar Islands, Odisha; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Gangetic West Bengal, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Kerala-Mahe and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Chhattisgarh, Telangana and Tamilnadu-Puducherry-Karaikal. Heavy rainfall at isolated places likely over Andaman & Nicobar Islands. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over South Andaman Sea and adjoining north Andaman Sea & Eastcentral Bay of Bengal. Fishermen are advised not to venture into these areas. Heat wave conditions in isolated pockets likely over north Madhya Maharashtra.
- 06 May (Day 5): Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph) at isolated places likely over Andaman & Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Odisha, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Kerala-Mahe and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh, Chhattisgarh, Telangana and Tamilnadu-Puducherry-Karaikal. Heavy to very heavy rainfall at isolated places likely over Andaman & Nicobar Islands. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over Andaman Sea & adjoining Eastcentral & Southeast Bay of Bengal. Fishermen are advised not to venture into these areas. Heat wave conditions in isolated pockets likely over north Madhya Maharashtra.
- The weather outlook for seven days i.e., 02 Apr to 10 May 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)

Himachal pradesh

Weather condition:

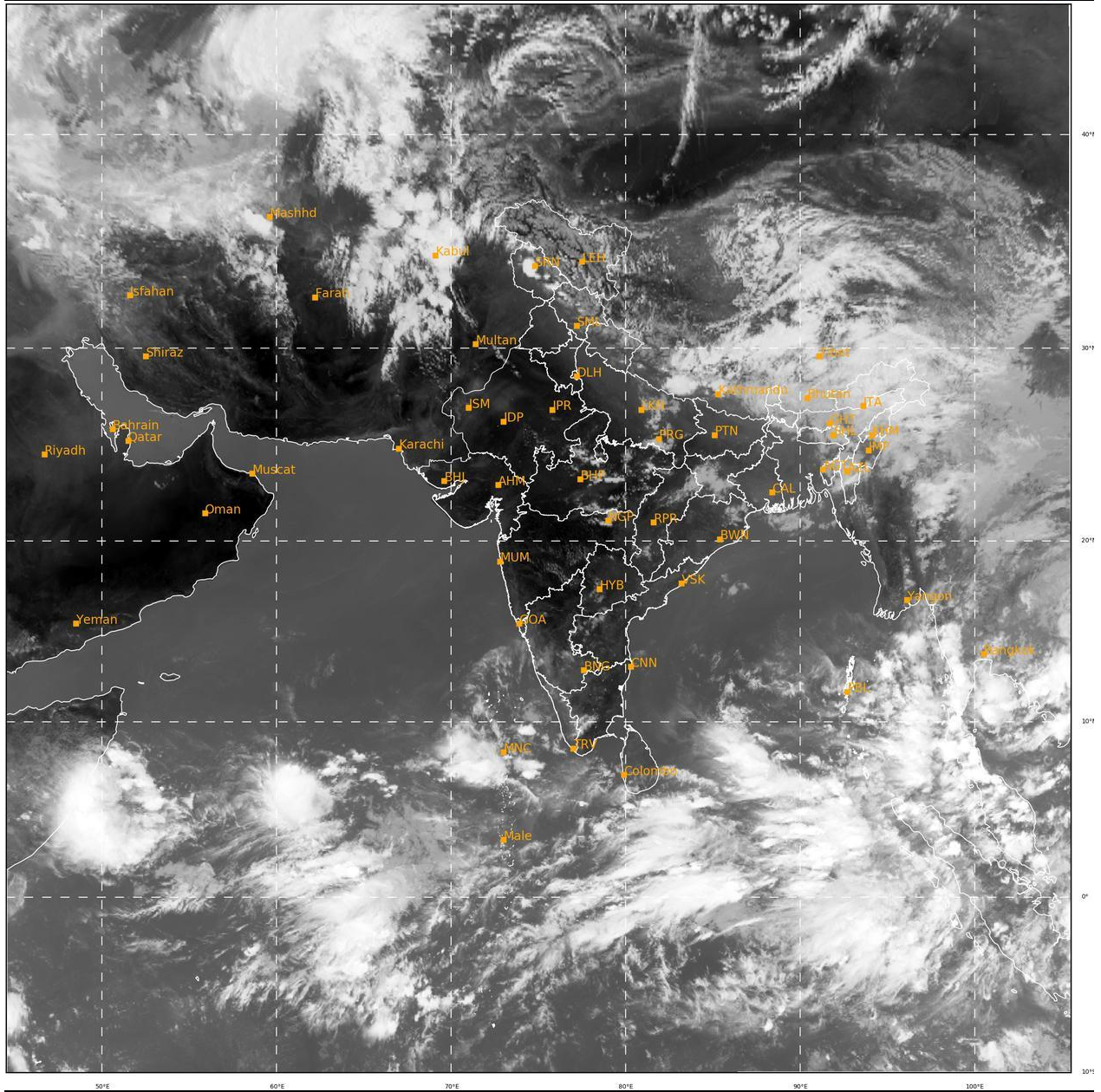
The maximum and minimum temperature ranged between 27.5 to 32.0°C and 14.5 to 19.0°C which was above normal by 1.8 to 4.1°C and 0.9 to 2.4°C, respectively. 3.6 mm rainfall was received during the week against the normal of 12.8 mm. The relative humidity varied between 19-47 % and sunshine hours between 8.0-10.5 hrs/day with variable sky conditions (Octa 0-7). The evaporation rate varied 4.9-8.5 mm per day.

Contingency measure:

- Rabi Crops: Wheat: Postpone harvesting of mature crop and shift threshed crop immediately to safer places as weather will remain variable.
- Mustard: Farmers are advised to timely harvest the matured crop of rapeseed/ mustard to avoid the losses as hailstorm, winds and rain is expected in upcoming days.
- Peas, Radish, Carrot and Spinach: This time is also suitable for sowing of improved varieties of pea, radish, spinach and carrot in the high hills.
- Vegetables: Farmers are advised to transplant the tubes of cucumber, bitter gourd, round gourd, ridge gourd, summer squash, and sponge gourd. Appropriate time for transplanting of tomato, brinjal, chilli and capsicum.
- Potato: Infection of blight may occur in potato and tomato. Constant monitoring is advised. If symptoms appears than spray of Carbandizam @ 1.0 gm / litre of water or Dithane-M-45 @ 2.0 gm/litre of water is recommended. Remove weeds from the field. Earthing up operation is advised.
- Livestock: Do not allow the water to stagnate in the cow shed. For milch animals follow schedule of 1 kg feed+50 g mineral mixtures per 2 litres of milk. Ensure cleanliness in cows having advanced pregnancy to avoid mastitis. Monitor the animals for FMD and advised Protect calves against parasites, get them dewormed with piperazine liquid @ 4 ml/kg body weight, first at 10 days of age, then 15 days and then monthly up to three months of age and then quarterly upto one year of age vaccination. Ecto parasite attack is expected in this weather for control spary Butox @ 2ml per litre in cowshed Give mixture of hay & green fodder.
- Poultry: Temperature is rising, so ensure proper ventilation in poultry houses. Replace the poultry houses with fresh litter and keep the houses clean and ensure

drinking water to the birds. Normal feeding schedule should be continued. Purchase day-only vaccinated chicks from reputed hatcheries to raise broiler chicks for maximum profits.

- Mushrooms: Sprinkle water to maintain humidity but ensure air circulation by fans to prevent water retention on mushroom. Maintain room temperature at 18-22 °C when fruiting starts.
- Horticulture: In mango and citrus, during flowering irrigation should be avoided for good fruit setting. Constant monitoring of mango mealy bug and leaf hopper are advised. For control of peach leaf curl spray metasystox @ 1ml per litre + blitox @ 3g per litre of water. Keep the basins of the plants free from weeds. Wrapping of plastic sheets around mango trunk should be done for preventing climbing of young mealy bugs. Apply grease to seal any cracks in the polythene sheets.
- Tea: It is optimum time to resume picking in tea at 6-7 days interval to maintain the quality and productivity.



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IMD, DELHI

Figure: 1. Latest available satellite picture as on 02 May 2022 at 1356 Hrs (IST). (Source: IMD).

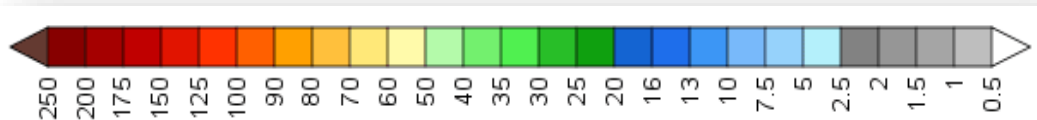
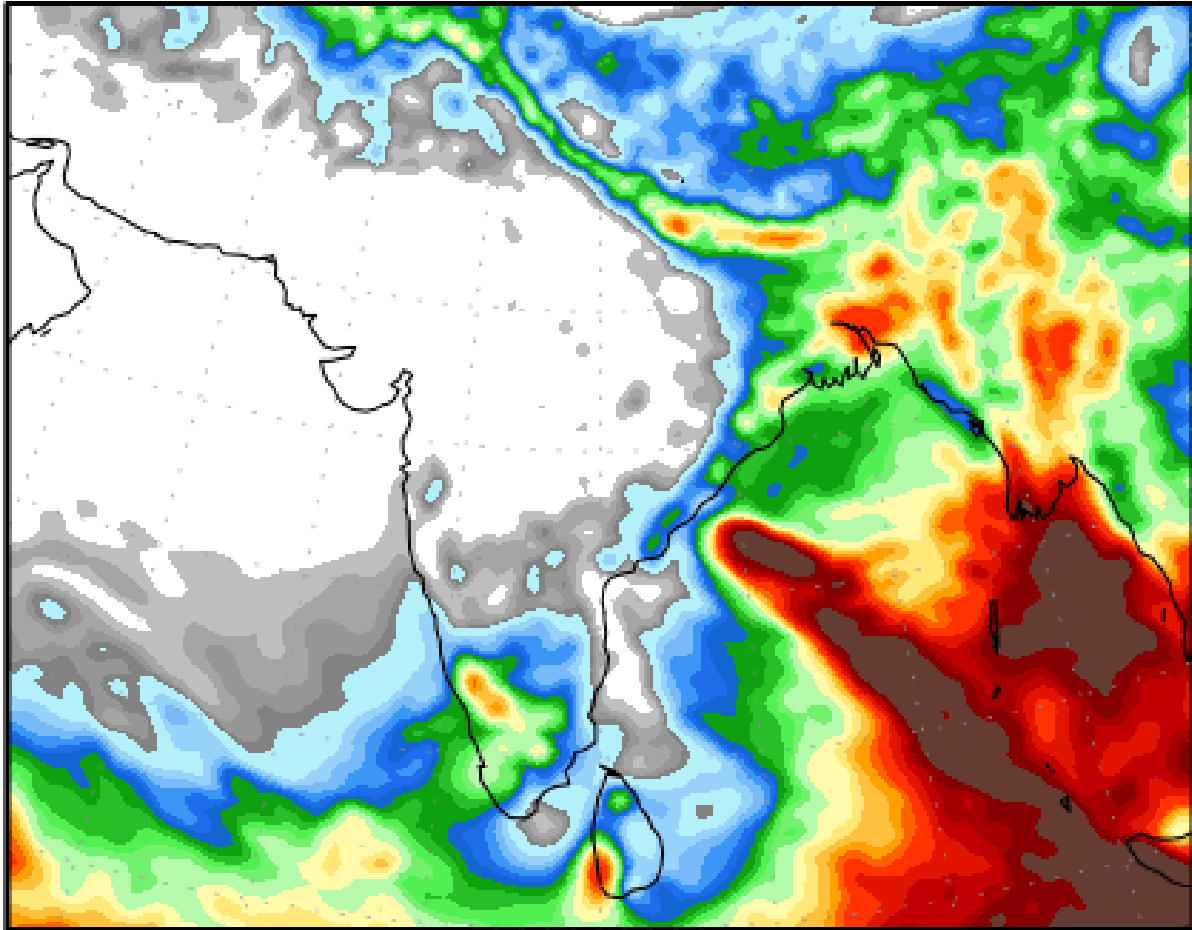


Figure:2. Precipitation forecast for 02 May to 10 May 2022 (Source: NOAA NCEP).

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