

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 29 April 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat wave conditions: in some parts over West Rajasthan during 29th-30th April with Severe Heat Wave Conditions on 01st May and gradually decrease into Heat Wave conditions in isolated pockets on 02nd May.
- Heat Wave conditions in some/isolated parts over
 - Vidarbha, MP during next 5 days;
 - Punjab, Haryana-Chandigarh-Delhi, West UP, East Rajasthan & northern parts of Telangana during next 4 days;
 - East UP, Jharkhand during 29th April-01st May;
 - Bihar, interior Odisha, Gangetic West Bengal, Chhattisgarh, Gujarat State, Madhya Maharashtra on 29th & 30th April.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels:
 - i) Fairly widespread/widespread rainfall with thunderstorm/lightning/gusty winds (speed reaching 40-50 kmph) very likely over Northeast India & Sub-Himalayan West Bengal-Sikkim during next 5 days. Thunderstorm/lightning & squall (speed reaching 50-60 kmph) very likely over Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura on 29th April, 2022.
 - ii) Isolated heavy rainfall very likely over Arunachal Pradesh on 30th; over Assam-Meghalaya during 30th April-03rd May and over Nagaland-Manipur-Mizoram-Tripura on 03rd May.
- Under the influence of a WD: isolated to scattered rainfall accompanied with thunderstorm/lightning/gusty winds (speed reaching 30-40 kmph) very likely over Western Himalayan Region during next 3 days. Isolated hailstorm also likely over Uttarakhand during 29th April-01st May, 2022.
- Under the influence of another fresh Western Disturbance likely to affect Northwest India from the night of 01st May, 2022: i) Scattered/fairly widespread rainfall accompanied with thunderstorm & lightning very likely over Western Himalayan Region during 02nd-04th May. Isolated hailstorm also likely over the

region on 03rd May, 2022. ii) Isolated light rainfall likely over plains of northwest India during 02nd-04th May.

- Duststorm/Thunderstorm very likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and West Rajasthan on 02nd & 03rd May and over East Rajasthan on 03rd May.
- Due to trough/wind discontinuity over peninsular India:
 - i) Isolated heavy rainfall very likely over Kerala during 29th April-01st May.
- 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 during next 24 hours. It is likely become more marked during subsequent 24 hours. Under its influence;
 - i) Fairly widespread to widespread rainfall likely to occur over Andaman and Nicobar Islands with isolated heavy rainfall over Nicobar Islands on 04th May.
 - ii) Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) is likely to prevail over South Andaman Sea on 04th May. Fishermen are advised not to venture into South Andaman Sea and adjoining southeast Bay of Bengal on 04th May.
- 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 many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and North Interior Karnataka; at a few places over Lakshadweep, Andaman-Nicobar Islands, Coastal & South Interior Karnataka and Kerala-Mahe and at isolated places over Himachal Pradesh, Uttarakhand, Vidarbha, Chhattisgarh, Odisha, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Arunachal Pradesh, West Bengal-Sikkim, Konkan-Goa, Coastal Andhra Pradesh, Rayalaseema, Telangana and Tamilnadu.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and at isolated places over Himachal Pradesh, Assam & Meghalaya, Chhattisgarh, Madhya Maharashtra, North Interior Karnataka, Telangana, Kerala & Mahe, Lakshadweep and Tamilnadu.
- Heat wave conditions prevailed in many parts of Punjab, West Rajasthan and Vidarbha; in some parts of Himachal Pradesh, West Madhya Pradesh and Jharkhand and in isolated pockets of Haryana-Delhi, Uttar Pradesh, East

Rajasthan, East Madhya Pradesh, Gujarat State, Gangetic West Bengal and Odisha.

- **Maximum Temperature Departures (as on 28-04-2022):** Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Himachal Pradesh and Gangetic West Bengal; appreciably above normal (3.1°C to 5.0°C) at most places over Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad, Haryana, Chandigarh & Delhi, Jharkhand and Nagaland, Manipur, Mizoram & Tripura; at many places over Uttarakhand, Punjab and Vidarbha; at a few places over Uttar Pradesh, West Rajasthan, Madhya Pradesh, Gujarat state and Odisha; at isolated places over East Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Coastal Karnataka; at many places over Bihar, Marathwada and Rayalaseema; at a few places over Sub-Himalayan West Bengal & Sikkim, Chhattisgarh and Telangana; at isolated places over Kerala-Mahe, Tamilnadu-Puducherry-Karaikal and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.9°C was reported at Prayagraj (East Uttar Pradesh).
- **Minimum Temperature Departures (as on 29-04-2022):** Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Himachal Pradesh and East Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many places over Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad, Punjab, Gangetic West Bengal, and Nagaland, Manipur, Mizoram & Tripura; at a few places over Bihar and Sub- Himalayan West Bengal & Sikkim; at isolated places over Haryana, Chandigarh & Delhi, Saurashtra & Kutch, Uttar Pradesh, Madhya Maharashtra, Madhya Pradesh, Jharkhand and Odisha; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over West Rajasthan, Gujarat Region, Chhattisgarh and Assam & Meghalaya; at a few places over Konkan & Goa and Arunachal Pradesh and at Isolated places over Marathwada, Vidarbha, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at isolated places over Coastal Andhra Pradesh Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 21.0°C is reported at Bhilwara (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 29 April (Day 1): Thunderstorm accompanied with lightning & Squall (speed 50-60 kmph) at isolated places very likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura; with lightning/gusty winds & hail (speed 30-40 kmph) at isolated places over Uttarakhand; with lightning/gusty winds (speed

30-40 kmph) at isolated places over Telangana, Kerala & Mahe and with lightning at isolated places over Arunachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal-Sikkim, south Chhattisgarh, south Madhya Maharashtra, Coastal Andhra Pradesh, Karnataka, Lakshadweep and Tamilnadu. Heavy rainfall at isolated places very likely over Arunachal Pradesh, Assam-Meghalaya and Kerala-Mahe. Heat wave conditions in some parts very likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Jharkhand and in isolated places over Jammu, East Uttar Pradesh, East Rajasthan, Chhattisgarh, Bihar, western parts of Gangetic West Bengal, Gujarat state, north Madhya Maharashtra, Telangana and interior Odisha. Duststorm at isolated places very likely over Punjab and Haryana-Chandigarh-Delhi.

- 30 April (Day 2): Thunderstorm accompanied with lightning/gusty winds & hail (speed 30-40 kmph) at isolated places very likely over Uttarakhand; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Sub-Himalayan West Bengal-Sikkim, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Bihar, Telangana, Kerala-Mahe and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Andaman & Nicobar Islands, Rayalaseema, Karnataka, Tamilnadu, south Chhattisgarh and Gangetic West Bengal. Heavy rainfall at isolated places very likely over Assam-Meghalaya and Kerala-Mahe. Heat wave conditions in some parts very likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Jharkhand and in isolated places over Jammu, East Uttar Pradesh, East Rajasthan, Chhattisgarh, Bihar, western parts of Gangetic West Bengal, Gujarat state, north Madhya Maharashtra, Telangana and interior Odisha. Duststorm at isolated places very likely over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and East Rajasthan.
- 01 May (Day 3): Thunderstorm accompanied with lightning/gusty winds & hail (speed 30-40 kmph) at isolated places very likely over Uttarakhand; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Sub-Himalayan West Bengal-Sikkim; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Bihar, Jharkhand, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Telangana, Kerala-Mahe and with lightning at isolated places over Himachal Pradesh, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, south Chhattisgarh and Rayalaseema. Heavy rainfall at isolated places very likely over Assam-Meghalaya and Kerala-Mahe. Heat wave conditions in some parts with severe heat wave conditions in isolated pockets very likely over West

Rajasthan; Heat wave conditions in some parts over Punjab, Haryana-Chandigarh-Delhi and in isolated places over Jammu, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Jharkhand, Telangana and interior Odisha. Duststorm at isolated places very likely over Uttar Pradesh.

- 02 May (Day 4): Thunderstorm accompanied with lightning/gusty winds(speed 40-50 kmph) at isolated places likely over Gangetic West Bengal; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Jharkhand and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Odisha, south Chhattisgarh, Madhya Maharashtra, Coastal Andhra Pradesh, Telangana, Rayalaseema and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya. Heat wave conditions in isolated pockets likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha and Telangana. Duststorm at isolated places likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and West Rajasthan.
- 03 May (Day 5): Thunderstorm accompanied with lightning//gusty winds (speed 30-40 kmph) & hail at isolated places likely over Uttarakhand; with lightning & hail at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Gangetic West Bengal; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Jharkhand and with lightning at isolated places over East Uttar Pradesh, Odisha, south Chhattisgarh, Madhya Maharashtra, Coastal Andhra Pradesh Telangana, Rayalaseema and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura. Heat wave conditions in isolated pockets likely over Madhya Pradesh and Vidarbha. Duststorm at isolated places likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and Rajasthan.
- The weather outlook for seven days i.e., 29 Apr to 07 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)

Tamil nadu

Weather condition:

Maximum temperature: 36.4°C (normal 37.6°C), minimum temperature: 23.0°C (normal 23.5°C), rainfall: 12.0 mm (normal 13.5 mm). The maximum and minimum temperature

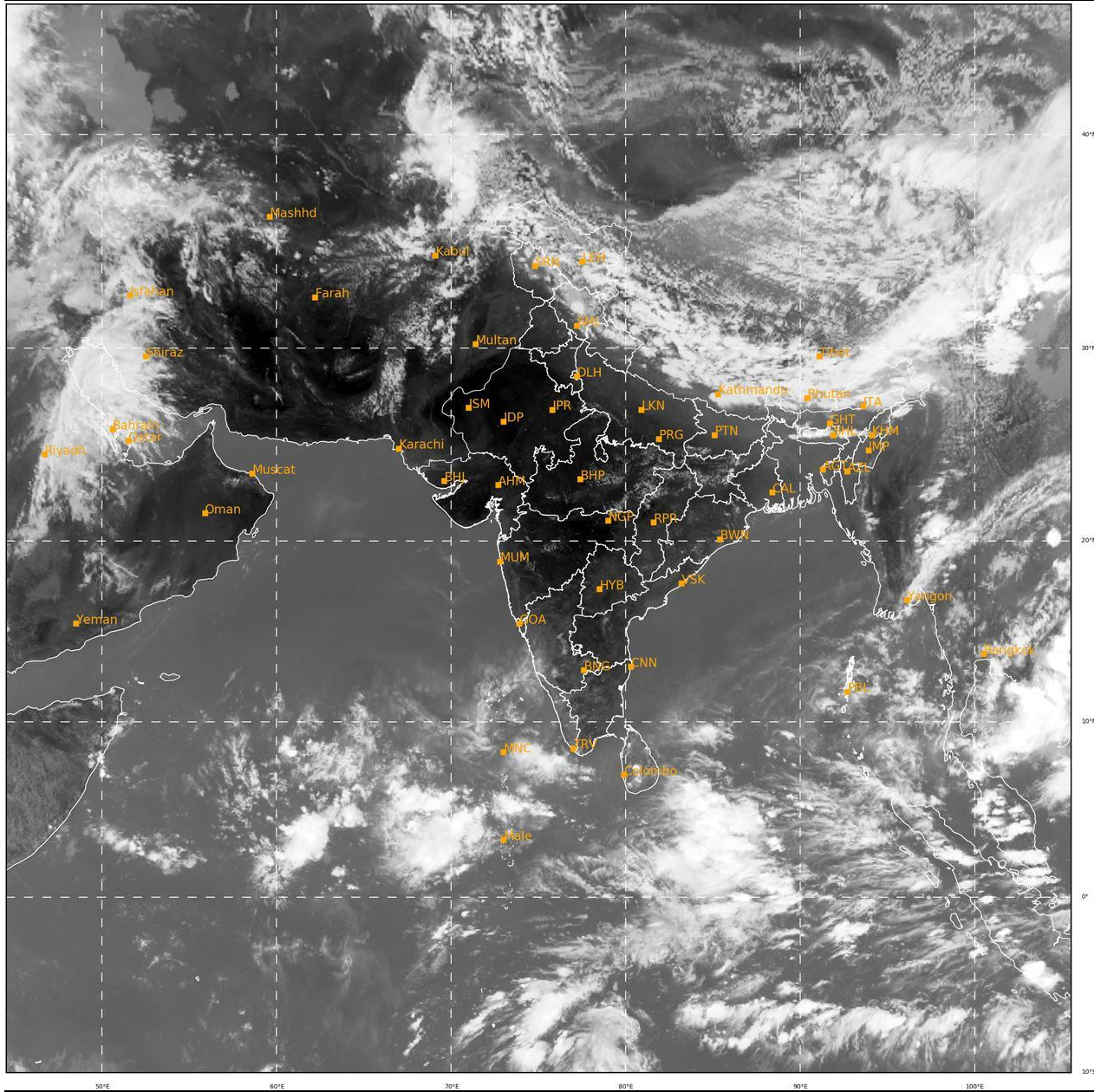
was 1.2°C and 0.5°C below & With respect to daily rainfall, rainfall occurred at a few places over Tamil Nadu on 24.04.2022, at isolated places over Tamil Nadu on 22.04.2022, 23.04.2022, 25.04.2022, 26.04.2022, 27.04.2022, during this week.→ Minimum temperature range of 20°C-28°C prevailed over the state except Kodaikanal and Uthagamandalam (09°C-13°C) during the period under report. Maximum temperature range of 33°C - 39°C prevailed over the state except Kodaikanal and Uthagamandalam (19°C-25°C) during the period under report above normal respectively and the rainfall was 1.5 mm below normal across the week. General weather situation in Tamil Nadu:

Contingency measure:

- Irrigated crops -Water management- Based on the local weather irrigation may be planned.
- Agricultural/ Horticultural crops Rainfall - As light rainfall is expected. Harvested agricultural and horticultural produce may be stored under protective shelter. Spraying/ Fertilizer - Based on the local weather, spraying of chemicals and fertilizer application may be done.
- Livestock- Rainfall & Thunder- rainfall is predicted, avoid leakage roof and livestock feed to be kept under protective area. If thunder occurrence is noticed avoid grazing. Human -Stay indoors and avoid travel if possible during heavy rainfall and thunderstorm. Dry land - Farmers are requested to practice the summer ploughing based on the suitable soil moisture prevailing for ploughing.
- Black gram- Flowering stage Based on the local weather, spraying 2% DAP at the time of first appearance of flowers and a second spray at 15 days after first spray for enhanced seed set may be practice.
- Chilli -Flowering and fruiting stage - Prevailing weather is conducive for Fruit Rot and Die Back diseases. The first spraying should be given just before flowering and the second at the time of fruit formation. Third spraying may be given a fortnight after second spraying. Chemicals like wettable sulphur 0.2%, copper oxychloride 0.25% and Zineb 0.15% not only reduced the disease incidence but also increased the yield of fruits. Prevailing weather is aphid is noticed. To control spray Imidacloprid 17.8 % SL@ 3.5 ml/10 lit.
- Coconut -All stages- Rugose Spiralling whitefly is noticed in the prevailed weather condition. Application of water, maida solution as spray in order to increase the population of Encarsia parasitic. Also keep yellow stick trap.
- Banana -All stages- Under prevailing weather condition Wilt disease noticed. Soil drenching of Carbendazim 0.1 per cent solution around the pseudostem at bimonthly intervals starting from five months after planting.

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

29-04-2022/(0800 to 0826) GMT
29-04-2022/(1330 to 1356) IST



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943

IMD,DELHI

Figure: 1. Latest available satellite picture as on 29 Apr 2022 at 1356 Hrs (IST). (Source: IMD).

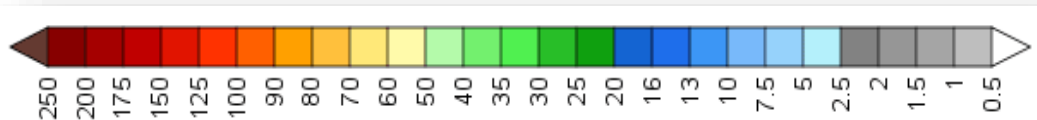
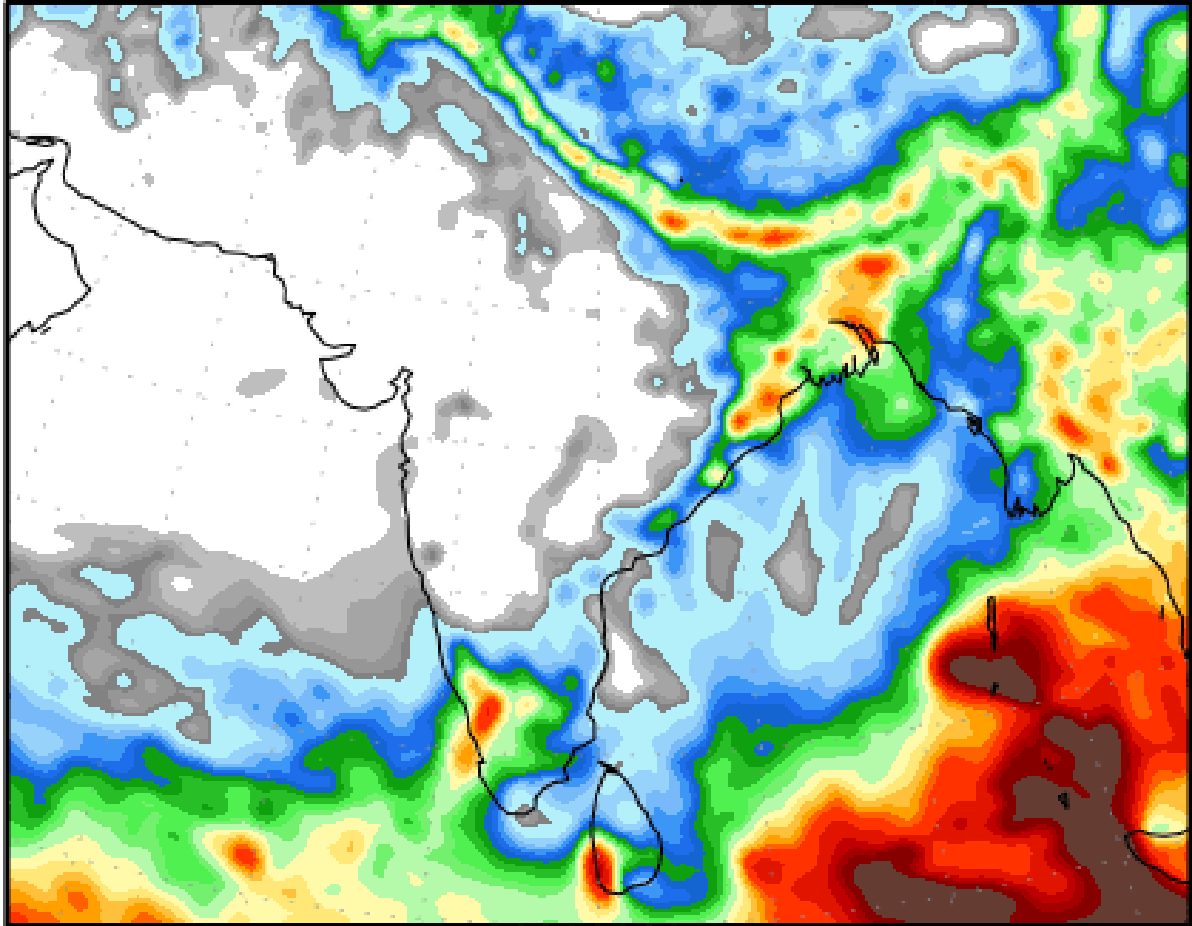


Figure:2. Precipitation forecast for 29 Apr to 07 May 2022 (Source: NOAA NCEP).

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