

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

Daily Crop Weather Information as on 13 May 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Due to strong cross equatorial flow from Bay of Bengal to Andaman Sea in lower tropospheric levels;
- Widespread light/moderate rainfall very likely over Andaman & Nicobar Islands during next 5 days. Isolated heavy falls very likely over the region during 14th-17th May.
- Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph also likely over south Andaman Sea during 15th-17th May.
- Rainfall/thunderstorm Forecast & Warnings for rest parts of country:
- Due to strong southwesterly winds from Bay of Bengal to northeast & adjoining east India at lower tropospheric levels;
- Isolated heavy to very heavy falls very likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim during 13th to 17th May.
- Isolated extremely heavy falls also likely over Meghalaya on 13th & 14th May.
- Isolated heavy falls very likely over Arunachal Pradesh on 17th and isolated heavy to very heavy falls during 13th-16th May.
- Isolated heavy falls very likely over Nagaland-Manipur-Mizoram-Tripura during 13th to 17th May.
- Isolated to scattered rainfall likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha during next 5 days.
- Due to strong westerly flow from Arabian Sea to South Peninsular India in lower tropospheric levels:
- Fairly widespread light/moderate rainfall with isolated thunderstorm/lightning/gusty winds very likely over Kerala, Mahe, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka & Lakshadweep with isolated heavy falls over Tamilnadu, Puducherry & Karaikal, Kerala-Mahe during next 5 days with isolated very heavy falls over Tamilnadu, Puducherry & Karaikal on 14th and over Kerala & Mahe on 14th & 15th May.

- Isolated to scattered rainfall activity with isolated thunderstorm/lightning/gusty winds very likely over Andhra Pradesh, Telangana, North Interior Karnataka and during next 5 days.
- Isolated heavy falls likely over Coastal & South Interior Karnataka today.
- Under the influence of a fresh Western Disturbance;
- Isolated light rainfall with thunderstorm/lightning & hail very likely over Jammu & Kashmir, Himachal Pradesh and Uttarakhand on 16th & 17th May.
- Isolated light rainfall with thunderstorm/lightning very likely over Punjab on 16th & 17th; over north Haryana & West Uttar Pradesh on 17th May.
- Heat wave warnings:
- Heat Wave conditions in most parts with severe heat wave conditions in isolated pockets very likely over West Rajasthan on 13th & 14th; heat wave conditions in some parts on 15th and no heat wave thereafter for subsequent 2-3 days.
- Heat Wave conditions in many parts with severe heat wave conditions in isolated pockets very likely over East Rajasthan on 13th; heat wave conditions in many parts on 14th and in isolated pockets on 15th May.
- Heat Wave conditions in isolated pockets very likely over West Uttar Pradesh and Madhya Pradesh on 13th & 14th; Gujarat state on 13th; Jammu & Kashmir, south Haryana-Delhi, Punjab during 13th-15th and over Vidarbha on 14th & 15th 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 Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Uttarakhand, Andaman & Nicobar Islands, Lakshadweep, Coastal Karnataka and Kerala & Mahe; at many places over Interior Karnataka, Rayalaseema at a few places over Gangetic West Bengal, Jharkhand, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal, Jharkhand and at isolated places over Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Bihar, Konkan & Goa, Madhya Maharashtra, Marathwada and Telangana.
- Isolated heavy to very heavy rainfall with extremely heavy falls occurred over Assam-Meghalaya and heavy rainfall at isolated places over Arunachal Pradesh, Andaman-Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Tamilnadu-Puducherry, Kerala-Mahe and South Interior Karnataka.

- Heat Wave to severe Heat Wave conditions observed at most parts of West Rajasthan; Heat Wave conditions observed over some parts of East Rajasthan, West Madhya Pradesh, and Haryana and in isolated pockets over Gujarat State.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, West Bengal & Sikkim, Vidarbha, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal, Telangana, Madhya Maharashtra and Kerala & Mahe.
- Heavy to very heavy with extremely fall observed (at 0830 hrs IST) at isolated place over Assam & Meghalaya; heavy to very heavy at isolated places over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands and heavy fall at isolated places over Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures (as on 12-05-2022): Maximum temperatures were markedly above normal (5.1 or more) at most places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi and East Rajasthan; at a few places over Sourashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh and West Madhya Pradesh; at many places over Gujarat Region; at a few places over East Madhya Pradesh, Vidarbha and Sub- Himalayan West Bengal & Sikkim; at isolated places over Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1 or less) at most places over South Interior Karnataka and Rayalaseema; at many places over Coastal Andhra Pradesh & Yanam and North Interior Karnataka; at a few places over Telangana and Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over Gangetic West Bengal, Assam & Meghalaya and Odisha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 48.1°C was reported at Barmer (West Rajasthan).
- Minimum Temperature Departures (as on 13-05-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad , West Rajasthan and Haryana, Chandigarh & Delhi; at a few places over Himachal Pradesh, East Rajasthan East Uttar Pradesh and Vidarbha; at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places Gangetic West Bengal, Bihar, Chhattisgarh and Madhya Maharashtra; at a few places over Nagaland, Manipur, Mizoram & Tripura,Sub-Himalayan West Bengal & Sikkim, west Madhya Pradesh, Odisha, Gujarat State and Marathwada; at isolated places over Assam & Meghalaya. They

are appreciably above normal (-3.1°C to -5.0°C) at many places over Rayalaseema and Kerala & Mahe; at a few places over Tamilnadu, Puducherry & Karaikal and at isolated places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands and at many places over and and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.2°C is reported at Seoni (East Madhya Pradesh) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 13 May (Day 1): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Sub-Himalayan West Bengal-Sikkim, Kerala-Mahe, Lakshadweep and with lightning at isolated places over Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar islands, Arunachal Pradesh, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Telangana, Rayalaseema, Karnataka and Tamilnadu-Puducherry-Karaikal. Heavy to very heavy rainfall with extremely heavy rainfall at isolated places very likely over Meghalaya; heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal-Sikkim, Arunachal Pradesh and Assam and heavy rainfall at isolated places over Kerala-Mahe, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Nagaland-Manipur-Mizoram-Tripura. Heat wave conditions in most parts with severe heat wave conditions in isolated pockets very likely over West Rajasthan; Heat wave conditions in many parts with severe heat wave conditions in isolated pockets over East Rajasthan and Heat wave conditions in some parts over West Madhya Pradesh and in isolated pockets over Jammu Division, south Punjab, south Haryana-Delhi, southwest Uttar Pradesh, East Madhya Pradesh and Gujarat state. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar, Comorin area & adjoining Southwest Bay of Bengal and along & off Sri Lanka coast, Keral coast & Lakshadweep area. Fishermen are advised not to venture into these areas.
- 14 May (Day 2): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Kerala-Mahe, Lakshadweep, Sub-Himalayan West Bengal-Sikkim and with lightning at isolated places over Bihar, Jharkhand, Andaman & Nicobar Islands, Arunachal Pradesh, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Telangana, Rayalaseema, Coastal & South Interior Karnataka and Tamilnadu-Puducherry-Karaikal. Heavy to very heavy rainfall with extremely heavy rainfall at isolated places very likely over Meghalaya; Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal-Sikkim, Arunachal Pradesh, Assam, Kerala-Mahe and Tamilnadu-

Puducherry-Karaikal and heavy rainfall at isolated places over Andaman & Nicobar Islands and Nagaland-Manipur-Mizoram-Tripura Heat wave conditions in most parts with severe heat wave conditions in isolated pockets very likely over West Rajasthan; Heat wave conditions in many parts over East Rajasthan; in some parts over West Madhya Pradesh and in isolated pockets over Jammu Division, East Madhya Pradesh, Vidarbha, southwest Uttar Pradesh, south Punjab and south Haryana-Delhi. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar, Comorin area & adjoining Southwest Bay of Bengal and along & off Sri Lanka coast, Kerala coast & Lakshadweep area. Fishermen are advised not to venture into these areas.

- 15 May (Day 3): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Kerala-Mahe, Lakshadweep, Sub-Himalayan West Bengal-Sikkim, Andaman-Nicobar Islands and with lightning at isolated places over East Uttar Pradesh, Bihar, Odisha and Tamilnadu-Puducherry-Karaikal. Heavy to very heavy rainfall at isolated places very likely over Assam-Meghalaya, Kerala-Mahe, Sub-Himalayan West Bengal-Sikkim and heavy rainfall at isolated places over Andaman-Nicobar Islands, Arunachal Pradesh, Nagaland-Manipur-Mizoram-Tripura and Tamilnadu-Puducherry-Karaikal. Heat wave conditions in some parts very likely over West Rajasthan and in isolated pockets over East Rajasthan, Jammu Division, Vidarbha, south Punjab and south Haryana-Delhi. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over south Andaman Sea. Fishermen are advised not to venture into these areas.
- 16 May (Day 4): Thunderstorm accompanied with lightning & hail at isolated places likely over Jammu-Kashmir, Himachal Pradesh and with gusty winds (speed 30-40 kmph) at isolated places over Kerala-Mahe, Lakshadweep, Odisha, Andaman-Nicobar Islands and with lightning at isolated places over Punjab, Uttarakhand, East Uttar Pradesh, Gangetic West Bengal and Tamilnadu-Puducherry-Karaikal. Heavy to very heavy rainfall at isolated places likely over Arunachal Pradesh, Assam-Meghalaya, Sub-Himalayan West Bengal-Sikkim and heavy rainfall at isolated places over Andaman-Nicobar Islands, Kerala-Mahe, Nagaland-Manipur-Mizoram-Tripura and Tamilnadu-Puducherry-Karaikal. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over south Andaman Sea. Fishermen are advised not to venture into these areas.
- 17 May (Day 5): Thunderstorm accompanied with lightning & hail/gusty winds (speed 40-50 kmph) at isolated places likely over Uttarakhand; with lightning & hail at isolated places over Jammu-Kashmir, Himachal Pradesh; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Odisha,

Andaman-Nicobar Islands, Kerala-Mahe, Lakshadweep and with lightning at isolated places over Punjab, East Uttar Pradesh, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathawada and Tamilnadu-Puducherry-Karaikal. Heavy to very heavy rainfall at isolated places likely over Assam-Meghalaya and Arunachal Pradesh and heavy rainfall at isolated places over KeralaMahe, Tamilnadu-Puducherry-Karaikal, Andaman-Nicobar Islands, Nagaland-Manipur-Mizoram-Tripura and Sub-Himalayan West Bengal-Sikkim. Duststorm at isolated places likely over Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over south Andaman Sea, Gulf of Mannar, Comorin area & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 13 May to 21 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)

Kerala

Weather condition:

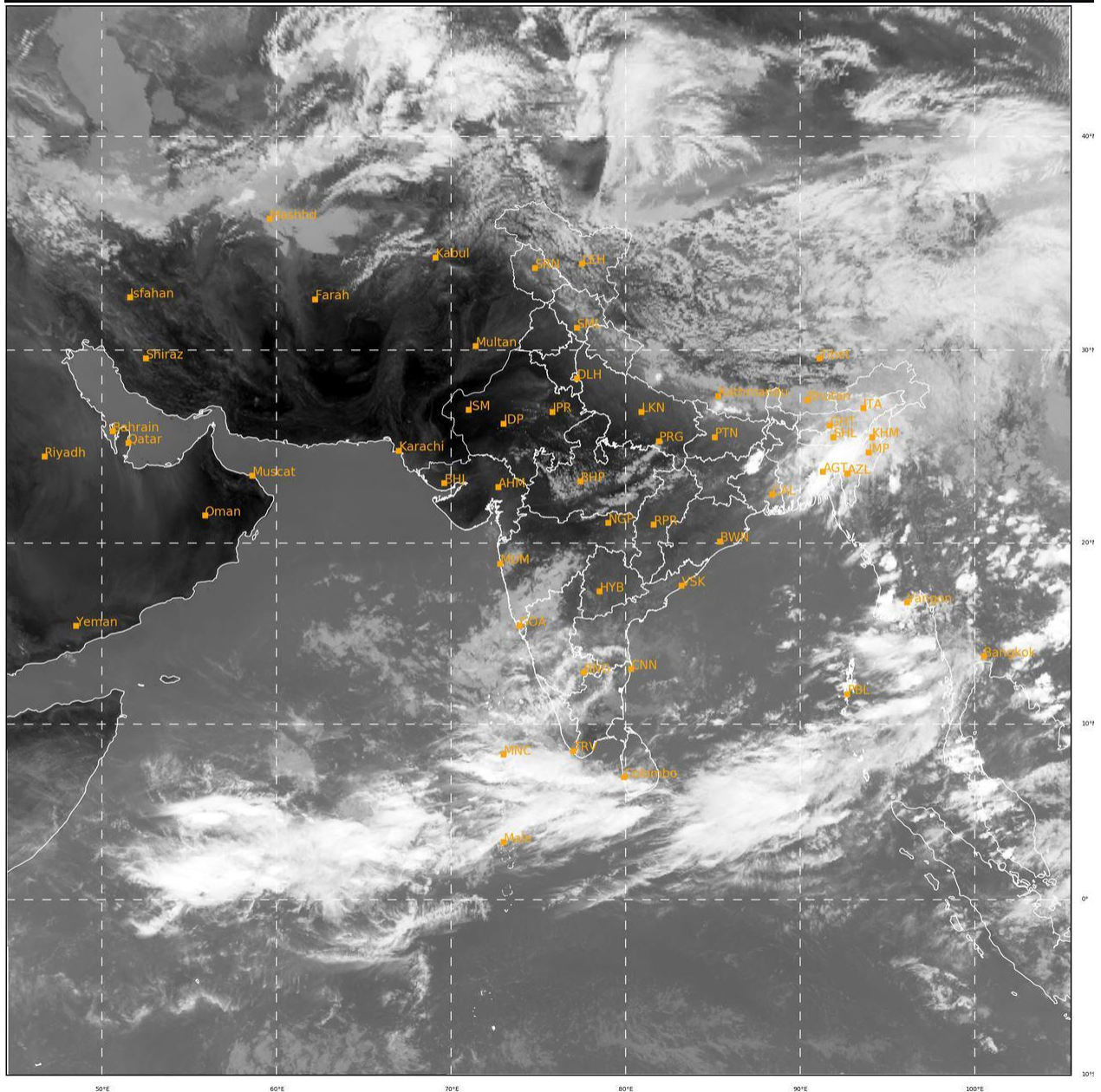
In Vellanikkara, the maximum temperature ranges from 28.6 to 33.4 Deg C, minimum temperature ranges from 21.7 to 26.4 Deg C. Morning relative humidity ranges from 090% to 099% and afternoon relative humidity ranges from 067% to 086%. Wind speed ranges from 0.6 to 2.9 km/h. Evaporation ranges from 0.8 to 4.4 mm. Sunshine hours range from 0.0 to 5.6 hours. 5 cm morning soil temperature ranges from 25.4 to 28.2 Deg C and afternoon soil temperature ranges from 29.8 to 34.9 Deg C.

Contingency measure:

- Rice (virippu)- Land preparation- It is recommended to sow dhaincha seeds in the paddy field before virippu planting.
- Coconut- Management- Pits can be taken for planting new coconut seedlings.
- Banana-mSigatoka disease- There is a chance of sigatoka disease in banana. As a precaution, Spray 20 g Pseudomonas per one liter of water.
- Pepper- Quick wilt-As a prophylactic measure to manage quick wilt in pepper, add 2 kg trichoderma to a mixture of 90 kg FYM and 10 kg neem cake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to each matured vine to control quick wilt of pepper.
- Animal Husbandry- Care should be taken to prevent rat breeding in the premises of cattle shed to prevent leptospyrosis.

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

13-05-2022/(0830 to 0856) GMT
13-05-2022/(1400 to 1426) IST



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942

IMD, DELHI

Figure: 1. Latest available satellite picture as on 13 May 2022 at 1426 Hrs (IST). (Source: IMD).

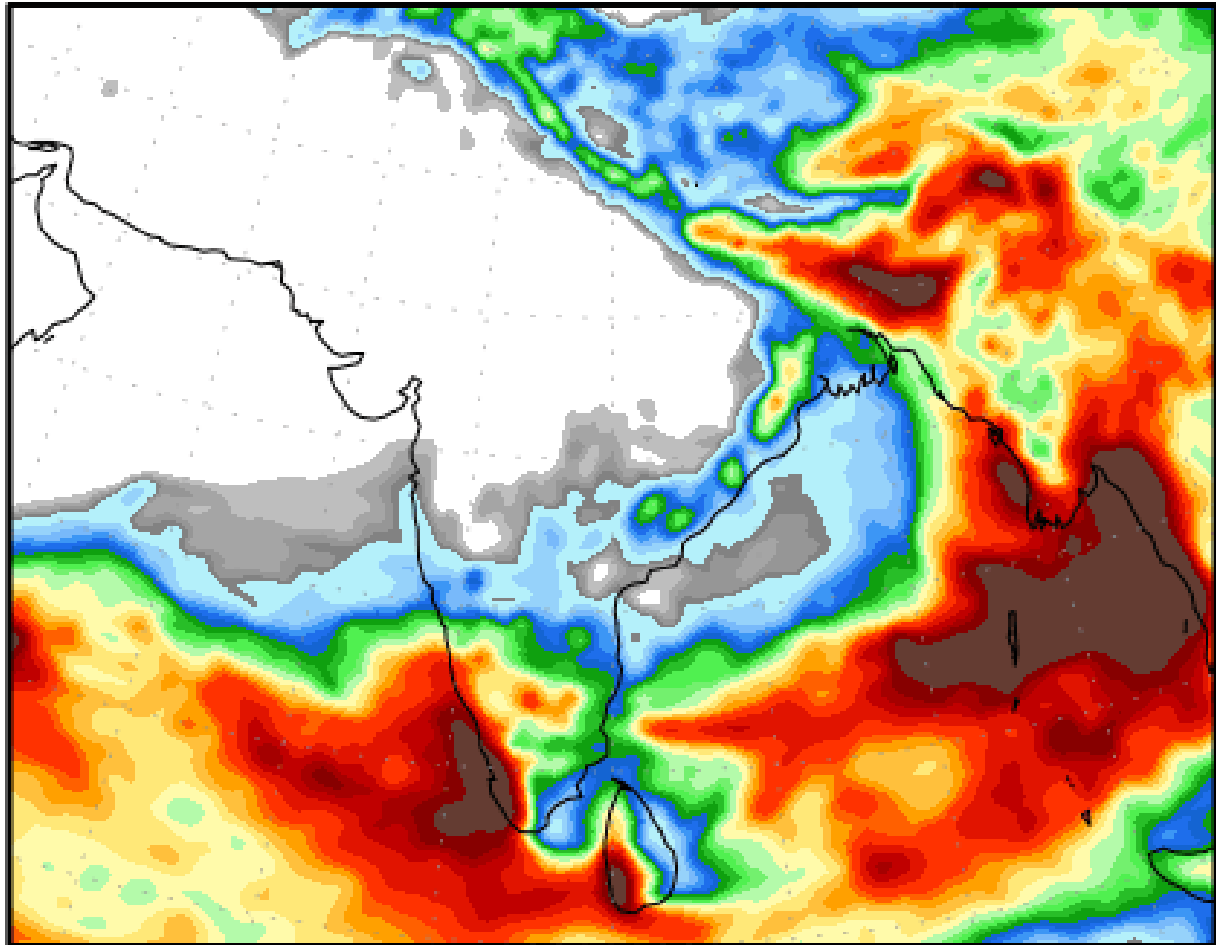


Figure:2. Precipitation forecast for 13 May to 21 May 2022 (Source: NOAA NCEP).

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