

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 Jun 2022

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Significant Weather Features (IMD)

- Advancement of Southwest Monsoon:
- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 15°N/ Long. 60°E, Lat. 15°N/ Long.70°E, Karwar, Chikmagaluru, Bengaluru, Dharmapuri, Lat.10°N/Long.80°E, Lat. 11.0°N/Long.83°E, Lat.14.0°N/Long.86°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Siliguri and 27.50°N/88°E.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of north-south trough runs roughly along Long. 89°E to the north Lat 22°N and strong southwesterly winds from Bay of Bengal to northeast India in lower tropospheric levels:
 - i) Widespread light/moderate rainfall with isolated heavy to very heavy rainfall very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated extremely heavy rainfall also likely over Meghalaya during 08th-10th June.
 - ii) Isolated/scattered rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 5 days with isolated heavy rainfall over Bihar on 06th June, 2022.
- Due to westerly winds from Arabian Sea over South Peninsular India in lower tropospheric levels:
 - i) Fairly widespread/ widespread light/moderate rainfall with thunderstorm/lightning very likely over Karnataka, Kerala & Mahe and Lakshadweep; scattered over Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and isolated activity over Telangana during next 5 days.
 - ii) Isolated heavy rainfall very likely over Tamilnadu and Coastal Andhra Pradesh on 06th; South Interior Karnataka during 06th-08th; North Interior Karnataka on 08th & 09th June and over Kerala & Mahe during 06th-10th June, 2022.
- Heat wave conditions in isolated places very likely over:

- i) Jammu Division, Himachal Pradesh, West Rajasthan, north Jharkhand and Vidarbha on 06th & 07th June;
 - ii) Odisha, Uttar Pradesh & Madhya Pradesh during 06th-08th June; iii) Punjab, Haryana-Delhi & Uttarakhand during 06th-09th June; iv) East Rajasthan, Chhattisgarh and Telangana on 06th June, 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, Sub-Himalayan West Bengal & Sikkim, Rayalaseema, South Interior Karnataka and Andaman & Nicobar Island; at many places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Kerala & Mahe and Lakshadweep; at a few places over Coastal Karnataka and Tamilnadu, Puducherry & Karaikal and at isolated places over Jammu-Kashmir, Chhattisgarh, Bihar, Jharkhand, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa and Telangana.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Chhattisgarh, Odisha, Madhya Maharashtra, Marathwada, Rayalaseema, Coastal Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and East Madhya Pradesh.
- Heavy Rainfall observed: Heavy to very heavy rainfall with extremely heavy falls at isolated places over Assam & Meghalaya; heavy to very heavy rainfall at isolated places over Bihar and Kerala and heavy rainfall over Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- Yesterday, Heat Wave to severe heat wave Conditions prevailed over some parts of Madhya Pradesh and Delhi; Heat wave conditions prevailed over some parts of Vidarbha and at isolated pockets of Himachal Pradesh, Punjab, Haryana, West Rajasthan and Uttar Pradesh.
- Maximum Temperature Departures (as on 05-06-2022): Maximum temperatures were markedly above normal (5.1°C to more) at many places over Uttarakhand; at a few places over Vidarbha and at isolated place over Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at most places over West Uttar Pradesh; at many places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Chhattisgarh, Marathawada and Coastal Karnataka; at a few places over Jammu & Kashmir, East Uttar Pradesh, West Madhya

Pradesh, North Interior Karnataka and Kerala & Mahe and at isolated places over Coastal Andhra Pradesh & Yanam and Rayalaseema; above normal (1.6°C to 3.0°C) at many place over Jharkhand, West Rajasthan and South Interior Karnataka; at a few places over Nagaland, Manipur, Mizoram & Tripura, Bihar, Odisha, Saurashtra & Kutch and East Rajasthan. They were below normal (-1.6°C to -3.0°C) at many places over Assam & Meghalaya and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 47.3°C was reported at Mungeshpur (Delhi NCR).

- Minimum Temperature Departures (as on 06-06-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand and Vidarbha; at a few places over Himachal Pradesh and at isolated places over Gangetic West Bengal, East Uttar Pradesh and Rajasthan; above normal (1.6°C to 3.0°C) at most places over Marathwada; at many places over Punjab and Coastal Karnataka; at a few places over Bihar, Sub-Himalayan West Bengal & Sikkim, West Uttar Pradesh, Telangana and Kerala & Mahe and at isolated places over Madhya Pradesh, Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam. They are markedly below normal (-5.1°C or less) at a few places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at most places over South Interior Karnataka; at many places over Rayalaseema; at a few places over Andaman-Nicobar Islands and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 22.6°C is reported at Dhar (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 06 June (Day 1): Heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya and heavy rainfall at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heat wave condition in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh,

Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha and Telangana. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, along and off Kerala coast, coastal Andhra Pradesh, west central Bay of Bengal and north Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, south west Bay of Bengal and gulf of Mannar. Fishermen are advised not to venture into these seas.

- 07 June (Day 2): Heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Arunachal Pradesh and heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada. Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heat wave condition in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Jharkhand, Vidarbha and Odisha. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and adjoining south east Arabian Sea, west central Bay of Bengal and north Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, south west Bay of Bengal and gulf of Mannar. Fishermen are advised not to venture into these seas.
- 08 June (Day 3): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Meghalaya; heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam and Arunachal Pradesh and heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura, Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) over Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada. Konkan & Goa, Karnataka, Kerala & Mahe and Lakshadweep. Heat wave condition in isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh,

Madhya Pradesh and Odisha. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off north Kerala coast, Karnataka coast, south Konkan coast, east central Bay of Bengal and adjoining north Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

- 09 June (Day 4): Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Meghalaya; heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam and Arunachal Pradesh and heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places likely over Andaman & Nicobar Islands, Vidarbha, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Jammu-Kashmir, Madhya Pradesh, Chhattisgarh, Bihar, Gangetic West Bengal, Gujarat state, Madhya Maharashtra, Marathwada. Konkan & Goa, Karnataka, Kerala & Mahe and Lakshadweep. Heat wave condition in isolated places likely over Uttarakhand, Punjab and Haryana, Chandigarh & Delhi. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off north Kerala coast, Karnataka coast, south Konkan coast, east central Bay of Bengal and adjoining north Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.
- 10 June (Day 5): Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Meghalaya; heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam and Arunachal Pradesh and heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places likely over Andaman & Nicobar Islands, Vidarbha, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Bihar, Gangetic West Bengal, Gujarat state, Konkan & Goa, Karnataka, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over along and off north Kerala coast, Karnataka coast, south Konkan coast, east central Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.
- The weather outlook for seven days i.e., 06 Jun to 14 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (22 MW) at AICRPAM Akola centre: T max 40.8°C (normal 41.8°C), T min 27.1°C (normal 28.0°C). RH I 49 % (normal 40 %), RH II 21 % (normal 16 %). Evaporation rate 14.1 mm (normal 14.6 mm), Wind speed 12.1 km/hr (normal 14.5 km/hr) and BSH 8.8 hrs (normal 9.1 hrs). Maximum temperature across the week was 1.0°C below normal with a deviation of -1.9 to +1.4°C from normal. Minimum temperature across the week 0.8°C below normal with a deviation of -1.9 to +0.9°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates prevalence of dry weather condition during 03-05 June and isolated light to moderate rainfall with warning of thunderstorm with lightning during 06-07 June.
- Undertake remaining harvesting of matured summer crops and vegetables and ensure safe placement of harvested produce to protect from sudden rain/thunderstorm. Preparatory tillage of fields for kharif sowing may immediately be completed. For effective in situ moisture conservation, preparatory tillage operations should be along the contour and across the field slope. For the ensuing kharif season ensure the availability of seeds as per the crop/cultivar planning and ensure other inputs (fertilizers / biofertilizers) in advance. Keep farm animals indoor during thunderstorm/lightning.
- Continue harvesting of matured summer groundnut, sesame and sunflower and ensure safe placement of harvested produce to protect from sudden rain/thunderstorm. Avoid pre-monsoon sowing of cotton crop. Early sown (pre-monsoon) crop bears the reproductive structures like squares and flowers early. Pink bollworm moths emerging from dormant population of previous season lay eggs on these squares and flowers thus early sown crop supports completion of new season's first generation of pink bollworm, which spreads to timely sown crop.
- In kharif planning for cotton crop recommended deshi varieties include AKA-5, AKA-7 and AKA-8 with seed rate of 12 to 15kg/ha and spacing of 60 x 15 cm. American improved varieties include AKH-081 (60x15cm with seed rate 15 to 20 kg/ha), AKH-09-5 (Suvarna Shubhra), PKV Rajat and AKH 8828 (60x30cm with

seed rate 10 to 12 kg/ha). Cotton deshi hybrid PKVDH-1, PKV-Suvarna is recommended with seed rate @ 3.0 to 3.5 kg/ha and spaced at 60x45 cm. Recommended Bt cotton varieties may also be preferred.

- Pigeon pea varieties to be chosen as per the soil type are - early duration varieties for medium soil type(TAT-10, ICPL 87, AKT-8811), medium duration varieties for medium to heavy soil type(BSMR-736, PKV Tara, BSMR-853) and long duration varieties for heavy soil type (ICPL-87119, C-11). Recommended greengram varieties are PKV- green gold, PKV mug-8802, PKV-AKM-4 and for black gram PKV udid-15, TAU-1, TAU-2 and PDKV black gold (AKU-10-1).
- For the ensuing kharif season ensure the availability and registration of improved varieties of new fruit trees from government nursery and ensure other inputs (fertilizers / biofertilizers) in advance. Considering irrigation facility and market response, cultivation of vegetables like bitter gourd, tinda, ridge gourd, smooth gourd, bottle gourd, ginger, turmeric, coriander, etc can be initiated during this period. As forecast warning includes thunderstorm with lightning during 06-07 June very likely to occur at isolated places, keep farm animals indoor during thunderstorm/lightning. Ensure sufficient feed and medication for livestock to last through prevailing disruption.

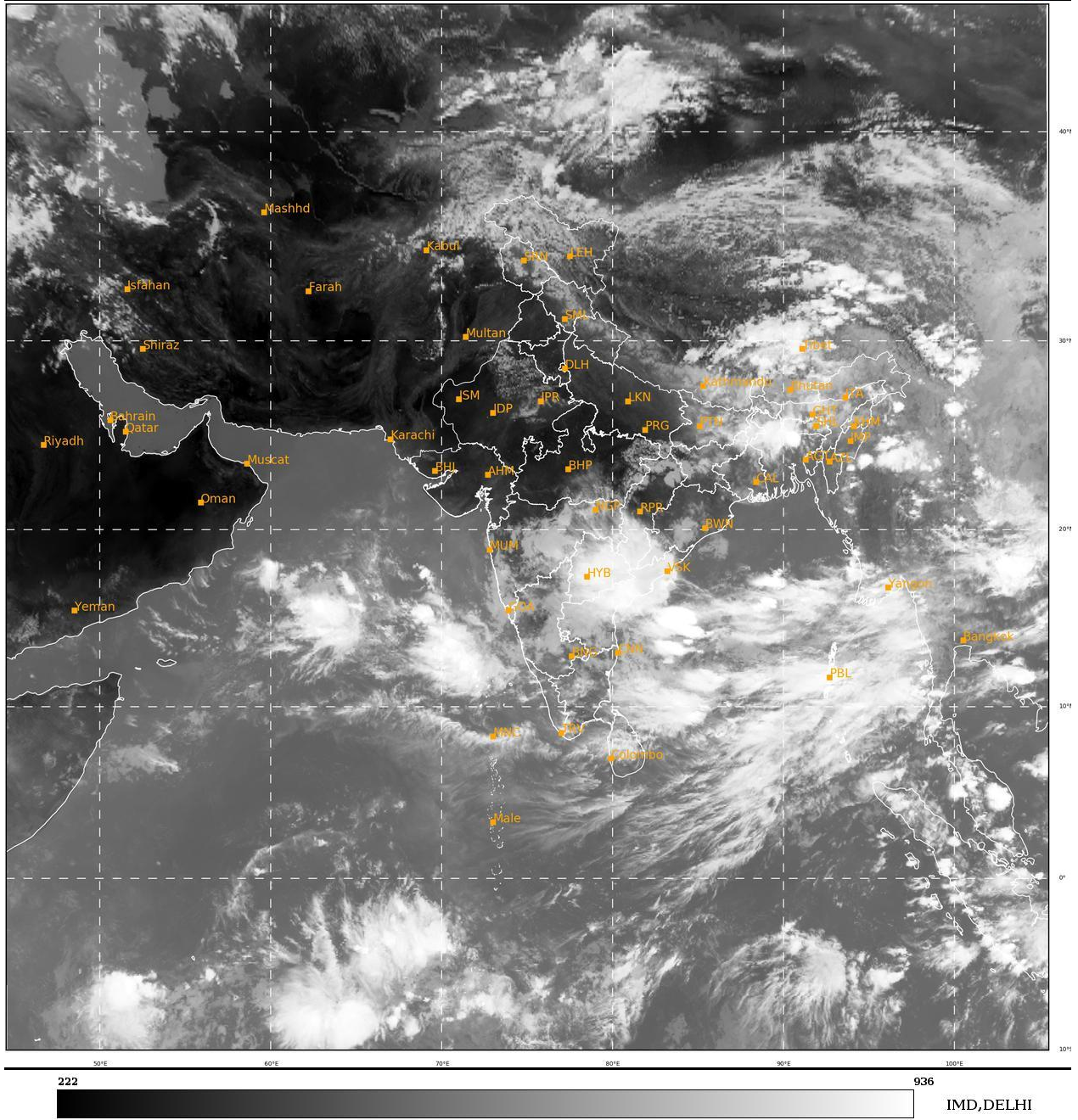


Figure: 1. Latest available satellite picture as on 06 Jun 2022 at 1356 Hrs (IST). (Source: IMD).

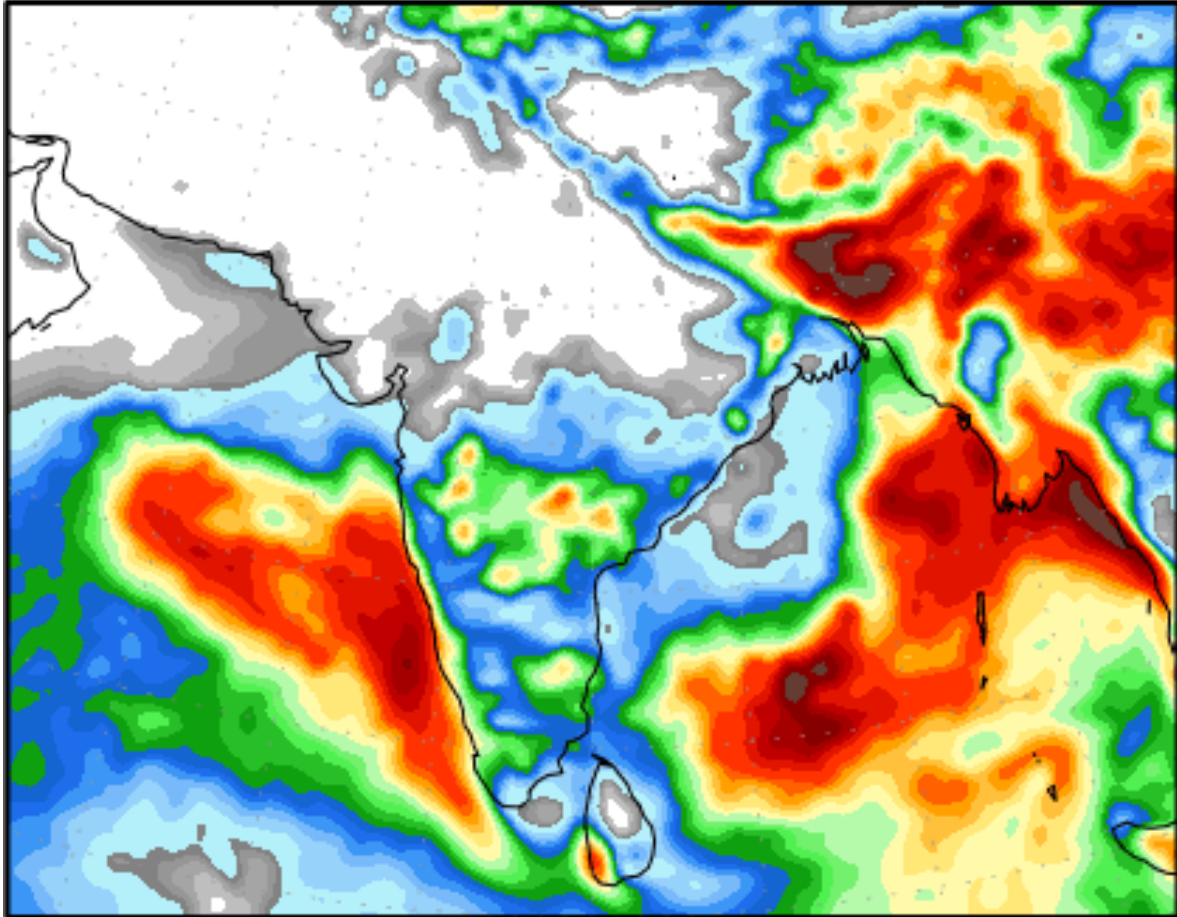


Figure:2. Precipitation forecast for 06 Jun to 14 Jun 2022 (Source: NOAA NCEP).

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