

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 07 Jun 2022

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Significant Weather Features (IMD)

- Advancement of Southwest Monsoon:
- Southwest Monsoon has further advanced over some more parts of Tamilnadu, Puducherry & Karaikal, southwest & westcentral Bay of Bengal.
- The Northern Limit of Monsoon (NLM) now passes through Lat. 15°N/ Long. 60°E, Lat. 15°N/ Long.70°E, Karwar, Chikmagaluru, Bengaluru, Puducherry, Lat.14°N/Long.84°E, Lat.17.0°N/Long.87°E, Lat.20.0°N/Long.89.5°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 roughly along Long. 90°E & to north of 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 and Assam & Meghalaya during next 5 days; Sub-Himalayan West Bengal & Sikkim during 08th-11th and over Nagaland, Manipur, Mizoram & Tripura during 09th-11th June. Isolated extremely heavy rainfall also likely over Assam & Meghalaya during 09th-11th June, 2022.
 - ii) Isolated/scattered rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 5 days.
- 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 on 07th; South Interior Karnataka on 07th & 08th; Coastal Karnataka during 09th-11th and over Kerala & Mahe during 07th-11th June, 2022.
- Heat wave warnings:

- Heat wave conditions in isolated places very likely over
 - i) Jammu Division, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Delhi & East Madhya Pradesh during 07th-09th
 - ii) Uttar Pradesh, Jharkhand and West Madhya Pradesh on 07th & 08th;
 - iii) West Rajasthan and Vidarbha on 07th June;
 - iv) Odisha during 08th-10th June
- 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; at many places over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and at a few places over Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal, Coastal & South Interior Karnataka, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep and at isolated places over Jammu & Kashmir, Odisha, Bihar, Konkan & Goa, Chhattisgarh, Telangana, Rayalaseema and North Interior Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Assam and Tamilnadu, Puducherry & Karaikal.
- Isolated heavy rainfall observed over Meghalaya, Kerala, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands and Tamilnadu, Puducherry & Karaikal.
- Yesterday, Heat Wave Conditions prevailed over some parts of Delhi; at isolated pockets of Punjab, Uttarakhand, West Rajasthan, Haryana, Uttar Pradesh, East Madhya Pradesh, Vidarbha and Jharkhand.
- Maximum Temperature Departures (as on 06-06-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Punjab and Vidarbha; at a few places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh and Jharkhand and at isolated places over West Rajasthan and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many place over Coastal Karnataka, Kerala & Mahe and Nagaland, Manipur, Mizoram & Tripura; at a few places over Chhattisgarh and Odisha and at isolated places over East Rajasthan, Gujarat State, Tamilnadu, Puducherry & Karaikal, Bihar, Gangetic West Bengal and Assam & Meghalaya. They were markedly below normal (-5.1°C to less) at many places over Coastal Andhra Pradesh & Yanam; at a few places over Rayalaseema; below

normal (-1.6°C to -3.0°C) at a few places over North Interior Karnataka and at isolated places over Telangana and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 46.8°C was reported at Banda (East Uttar Pradesh).

- Minimum Temperature Departures (as on 07-06-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh, Uttarakhand and Punjab; at a few places over East Rajasthan; above normal (1.6°C to 3.0°C) at many places over Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, West Bengal & Sikkim, Vidarbha; at a few places over Odisha, Bihar ; at isolated places over East Madhya Pradesh, West Rajasthan, Marathwada, Kerala & Mahe. They are below normal (-1.6°C to -3.0°C) at most places over Coastal Andhra Pradesh & Yanam, Andaman-Nicobar Islands and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.8°C reported at Belgaum (North Interior Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 07 June (Day 1): Heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya and heavy rainfall at isolated places over SubHimalayan West Bengal & Sikkim, Arunachal Pradesh, Andaman & Nicobar Islands, 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 Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada. Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heat wave conditions in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Jharkhand and Vidarbha. Warm night conditions in isolated places very likely over Vidarbha. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and adjoining south east Arabian Sea, south west Bay of Bengal, north Tamil Nadu, gulf of Mannar, Comorin area, north Andaman Sea and adjoining east central Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, north Andaman Sea. Fishermen are advised not to venture into these sea.

- 08 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, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Andaman & Nicobar Islands, Gangetic West Bengal; with lightning/gusty winds (speed 30-40 kmph) over Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Konkan & Goa, Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heat wave conditions in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Jharkhand 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, along and off south Maharashtra, Goa and Konkan coasts, south west Bay of Bengal, north Tamil Nadu, gulf of Mannar, Comorin area, north Andaman Sea and adjoining 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.
- 09 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, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Karnataka, Telangana, Kerala & Mahe and Lakshadweep. Heat wave conditions in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh and Odisha. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, south Maharashtra, Goa and Konkan coasts, north Andaman Sea and adjoining 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.
- 10 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, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places likely over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, East Rajasthan, Vidarbha, Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Gujarat state, Konkan & Goa, Madhya Maharashtra, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep. Heat wave conditions in isolated places likely over Odisha. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, south Maharashtra, Goa and Konkan coasts, north Andaman Sea and adjoining 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.

- 11 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, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places likely over Vidarbha, Chhattisgarh; gusty winds (speed 40-50 kmph) at isolated places, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, East Rajasthan, Bihar, Odisha, Andaman & Nicobar Islands, Gujarat state, Madhya Maharashtra, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, south Maharashtra, Goa and Konkan coasts. 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., 07 Jun to 15 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 cloudy to clear weather prevailed during this week with 16.8 mm rainfall in one rainy day. Both maximum and minimum temperatures remained variable and ranged from 32.4 to 41.2 °C and 21.0 to 27.0 °C, respectively. The morning and afternoon relative humidity were observed in the range of 34 to 75 % and 21 to 39 %, respectively. The evaporation and sunshine remained in the range of 9.6 to 13.8 mm/day and 2.0 to 9.9 hrs, respectively.

Contingency measure:

- Paddy: Nursery raising Main field Farmers may go for nursery raising of Basmati 370 and Ranbir Basmati. Treatment of seed with Carbendazim or Bavistin @ 2gm/Kg before nursery raising is recommended. Weeding in nursery is may be done mechanical methods or use butachlor granules 5G @ 30 kg/ha in puddle soil after emergence of 1st leaf. If required, apply urea to rice seedlings just after water disappears from field. Initiate land preparation of the fields where rice seedlings are to be transplanted and also incorporate the recommended quantity of well rotten FYM/Compost 15 tonnes /ha with the first ploughing for its better mixing. Clean bunds of the main field. Farmers may also go for direct sowing of rice crop due to sufficient soil moisture.
- Maize (irrigated): Land preparation Start land preparation due to sufficient soil moisture for early sown maize crop. Apply 15 tonnes of well rotten FYM and incorporate thoroughly into soil with first ploughing and reduce 25% of N, P & K from the recommended dose.
- Pulses: Summer pulses (moong/mash) Pod formation (normal sown)/ Flowering (late sown) Picking of the mature pods is recommended. Green Manuring in paddy Vegetative 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 Brinjal Turmeric/ginger fruiting Fruiting/ Fruiting Harvesting/ fruiting Vegetative Give irrigation as per requirement of crop. Install 5 pheromone traps per kanal to control fruit fly. Apply malathion @2ml/lit to control fruit fly. To control fruit borer, spray profenfos + cypermethrin (4:40) @ 1ml/lit of water. Spray mancozeb @ 0.2%, if symptoms of downey mildew is observed. 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. If yellow leaves (YVMV) are observed, uproot and bury deep in soil and wash hands after that. Due to high infestation of fruit and shoot borer at present situation, clip off shoots/fruits infected with borer and bury them inside the soil. Spray mixture of profenfos + cypermethrin (4:40) @ 1ml/lit of water at 10 days interval after harvesting of fruit to control infestation of borers. Keep the field free of weeds.

- Floriculture Chrysanthemum Summer annuals Marigold Rose Rainy annuals Vegetative Early vegetative Flowering Vegetative Nursery raising Give irrigation as per requirement. Heading back is recommended. Hoeing and weeding followed by irrigation is recommended. 2-3 irrigations per week is recommended. Hoeing and weeding followed by irrigation is recommended. Start land preparation and sowing of seeds for raising nursery of rainy annuals.
- Fodder: Summer fodder: Vegetative Top dressing nitrogenous fertilizer in summer fodder (maize+cowpea+charri) and bajra. Mushroom Milky mushroom Milky mushroom spawn may be booked at the earliest and the spawning can be done in the months of May to June. Heap wheat straw in store for the upcoming season during June-September.
- Horticulture: Mango Citrus Young/Bearing Young/Bearing Give frequent irrigation to young plants. Remove water suckers. Pits for rainy season plantation may be dug. Remove malformed portion in mango plant and spray 0.5gm carbendazim/lit water Spray dimethoate @ 1ml/lit to control mango hopper. Due to rise in temperature farmers are advised to protect young fruit plants from heat by providing thatches/cover but ensure free circulation of air. Spray dimethoate @ 1ml/lit to control citrus psylla, leaf miner, if observed.
- Sericulture: Mulberry Bivoltine cocoon crop Tree plantation Disinfection of rearing halls/ appliances Give irrigation as per requirement. Prepare basin around the mulberry trees. Prune the dead wood. Rigorous disinfection of used appliances in the recently completed spring rearing should be adopted with 2-14 per cent formaline solution.
- Apiculture: Protect colonies from high temperature 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) Yearlings/ fish seed Farmers should maintain the optimum water level in order to avoid any harm due to rising temperature especially during day time.
- Poultry: Maintain Proper ventilation must in poultry house. Spread clean litter

material uniformly in the poultry house at thickness of 2-3 inches. Vaccinate chicks against new castle disease and gumbroo disease.

- Live stock: Dairy animals/ Sheep & Goat Provide adequate amount of fresh cool and clean drinking water. Provide water bath 3-4 times in a day. Sprinkle water in sheds to reduce heat stress. Plant shady trees around the sheds Increase protein content in animal ration by 2%. Provide coolers to cross bred cattles during the day time Mineral mixture should be supplemented in diet. Give vaccination against FMD. Livestock needs to be dewormed against strongyles in plain areas of Jammu.

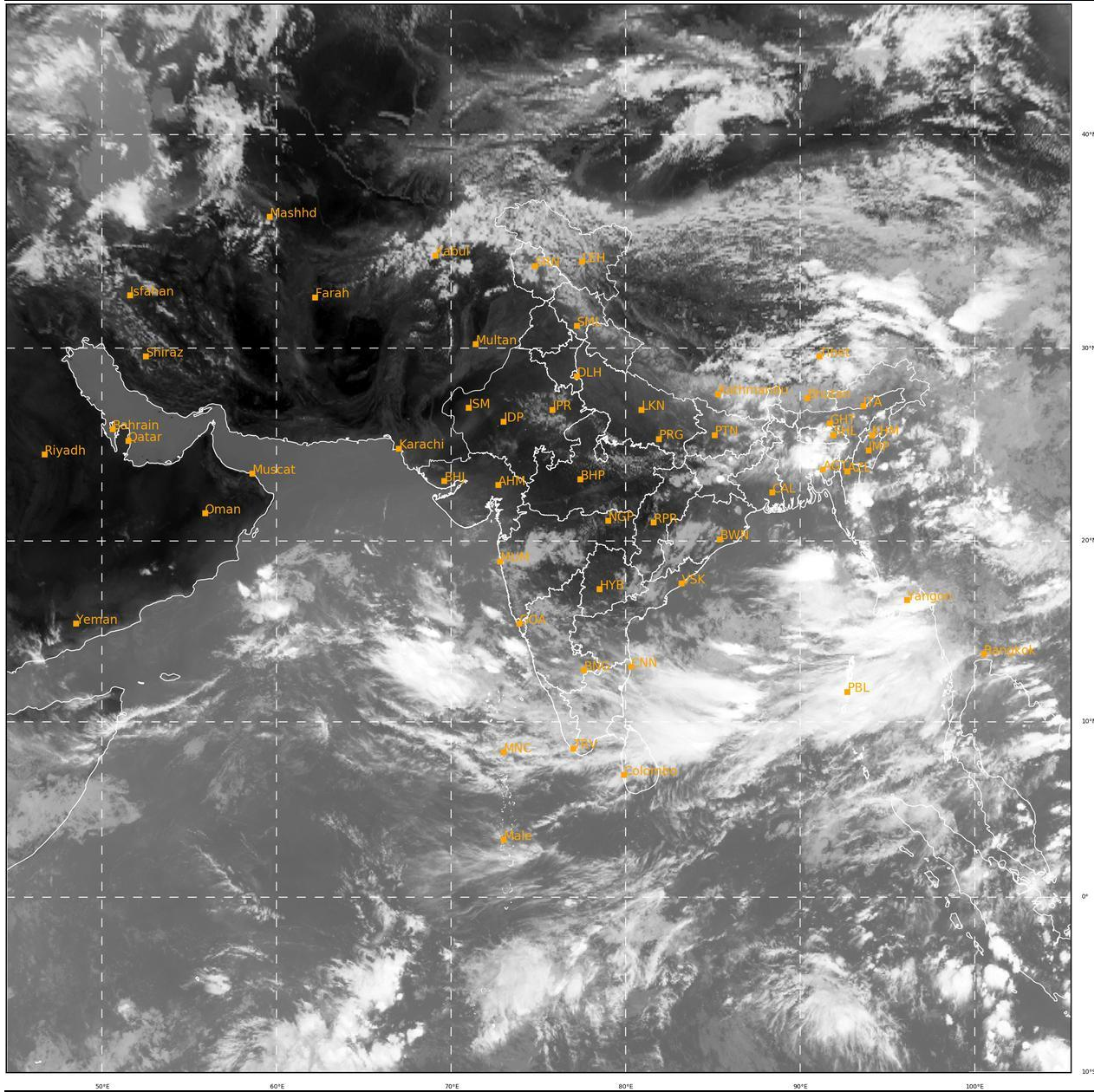


Figure: 1. Latest available satellite picture as on 07 Jun 2022 at 1356 Hrs (IST). (Source: IMD).

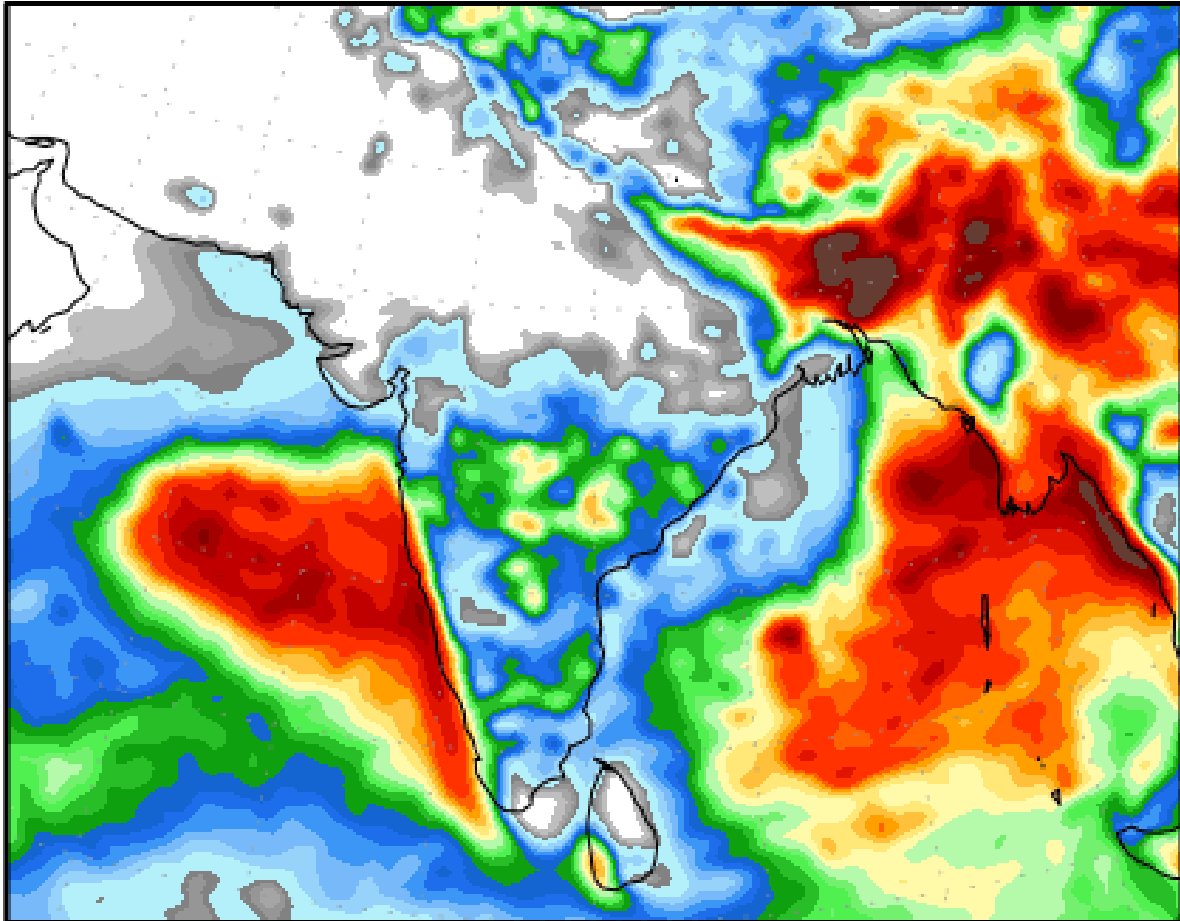


Figure:2. Precipitation forecast for 07 Jun to 15 Jun 2022 (Source: NOAA NCEP).

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