

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 Jun 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Advance of Southwest Monsoon:
- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porbandar, Baroda, Shivpuri, Rewa, Churk, 27.0°N/84°E.
- Conditions are favourable for further advance of southwest monsoon into some more parts of Gujarat, some parts of east Rajasthan, remaining parts Madhya Pradesh, remaining parts of Bihar, some more parts of Uttar Pradesh and some parts of Uttarakhand during next 3-4 days.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of the cyclonic circulation over eastcentral & adjoining northeast Arabian Sea off north Konkan-south Gujarat coasts, a Low Pressure Area has formed over the same region with the associated cyclonic circulation extends upto mid-tropospheric levels.
- An off-shore trough at mean sea level along west coast and strong westerly/southwesterly winds along the west coast in lower tropospheric levels. Under their influence:
 - o Isolated heavy to very heavy rainfall very likely over Konkan & Goa during next 5 days. Isolated heavy rainfall over Gujarat Region, Madhya Maharashtra, Coastal Karnataka, Kerala & Mahe during next 5 days; over southern parts of Saurashtra on 29th & 30th June; Coastal Andhra Pradesh & Telangana on 29th June; over Telangana on 30th; over North Interior Karnataka on 29th & 30th June; over South Interior Karnataka during 28th-30th June, 2022. Isolated heavy to very heavy rainfall also likely over Coastal Karnataka on 29th & 30th June.
- Due to east-west trough over north India and moist winds from Bay of Bengal and Arabian Sea over northern parts of the country in lower tropospheric levels:
 - o Isolated heavy rainfall likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and West Rajasthan on 30th, over Uttarakhand during 27th-30th; over East Rajasthan during 29th-30th; over Uttar Pradesh during 28th-30th and over Himachal Pradesh on 29th-30th June. Isolated heavy to very heavy rainfall

also likely over Uttarakhand on 29th June. o Isolated heavy rainfall very likely over Madhya Pradesh, Chhattisgarh, Vidarbha during 27th-30th June, 2022 and isolated heavy to very heavy rainfall also likely over Bihar on 28th & 29th June.

- Under the influence of southerly/southwesterly winds in lower levels from Bay of Bengal to Northeast & adjoining East India:
 - o Isolated heavy to very heavy rainfall also likely over Sub-Himalayan West Bengal on 28th & 29th June, 2022.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Arunachal Pradesh; at many places over Konkan & Goa, Coastal Karnataka, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands; at a few places over Uttarakhand, East Madhya Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Interior Karnataka and at isolated places over Gujarat, West Madhya Pradesh, Bihar, Odisha, Vidarbha, Telangana, Kerala & Mahe and Lakshadweep.
- Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday): Heavy rainfall at isolated places over East Madhya Pradesh.
- Thunderstorm observed (from 2030 hours IST of yesterday to 0530 hours IST of today): at isolated places over Gujarat Region, Marathwada and Coastal Andhra Pradesh.
- Yesterday's heat wave conditions prevailed in isolated pockets of Rajasthan and Gujarat.
- Maximum Temperature Departures (as on 26-06-2022): Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Rajasthan and Gujarat; appreciably above normal (3.0°C to 5.0°C) at many places over East Uttar Pradesh; at a few places over Madhya Pradesh, Haryana, Chandigarh & Delhi and Kerala & Mahe; above normal (1.6°C to 3.0°C) at most places over West Uttar Pradesh; at many places over Bihar; at a few places over Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.0°C to -5.0°C) at a few places over North Interior Karnataka; below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh & Yanam, Telangana, Vidarbha and Chhattisgarh; at isolated places over Konkan & Goa, Madhya Maharashtra and Andaman & Nicobar Islands and near normal over rest parts of

the country. Yesterday, the highest maximum temperature of 45.5°C was reported at Jaisalmer & Barmer (West Rajasthan).

- Minimum Temperature Departures (as on 26-06-2022): Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Rajasthan, West Madhya Pradesh; at isolated places over Uttar Pradesh, Gujarat Region; above normal (1.6°C to 3.0°C) at many places over Lakshadweep, Punjab; at a few places over Vidarbha; at isolated places over West Bengal & Sikkim, Odisha, Saurashtra & Kutch. They were below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh; at isolated places over Himachal Pradesh, Telangana, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.4°C reported at Seoni (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 June (Day 1): Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa and heavy rainfall at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Bihar; with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema and Lakshadweep. Squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely over East central & Northeast Arabian Sea, (wind speed 40-50 kmph gusting to 60 kmph) along and off south Gujarat, Maharashtra, Goa, Karnataka coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these seas.
- 28 June (Day 2): Heavy to very heavy rainfall at isolated places very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Bihar; with lightning at isolated places over Himachal Pradesh,

Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over East central & Northeast Arabian Sea, along and off south Gujarat, Maharashtra, Goa, Karnataka coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

- 29 June (Day 3): Heavy to very heavy rainfall at isolated places very likely over Uttarakhand, Bihar, Bihar, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over east central Arabian Sea, along and off south Gujarat, Maharashtra, Goa, Karnataka, Kerala coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over Southwest & Westcentral Arabian Sea and Strong Winds (wind speed 40-50 kmph gusting to 60 kmph) Gulf of Mannar, Comorin Area, Maldives Area and adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these seas.
- 30 June (Day 4): Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Telangana, Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema and

Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over east central Arabian Sea, along and off Maharashtra, Goa. Strong winds of 50-60 kmph gusting to 70 kmph likely over Southwest & Westcentral Arabian Sea and Strong Winds (wind speed 40-50 kmph gusting to 60 kmph) Gulf of Mannar, Comorin Area, Maldives Area and adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these seas.

- 01 July (Day 5): Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Telangana, Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over east central Arabian Sea, along and off Maharashtra, Goa. Strong winds of 50-60 kmph gusting to 70 kmph likely over Southwest & Westcentral Arabian Sea and Strong Winds (wind speed 40-50 kmph gusting to 60 kmph) Gulf of Mannar, Comorin Area, Maldives Area and adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these seas.
- The weather outlook for seven days i.e., 27 Jun to 05 Jul 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)

Assam

Weather condition:

Weather during the last week was partly cloudy. Daily average maximum temperature was 31.4°C which was 1.0°C below normal and the average daily minimum temperature was 23.9°C which was 1.3°C below normal for the week. Total BSSH was 2.8 mm/day and the average daily wind speed during the week was 2.8 kmph. Daily average RH during morning and afternoon hour was 93.1% and 71.3%, respectively.

Contingency measure:

- Sali rice (Nursery preparation):- Farmers are advised to take precautions during nursery sowing of Sali rice seeds. Sowing should be done in upland areas free from water stagnation and having sufficient slope for draining out the excess rain water. Care should be taken such that the seeds do not remain submerged under water after sowing. Facilitate good drainage system to remove excess water from already sown seedbeds.
- Boro rice: Farmers are advised to postpone the harvesting of matured boro paddy. Already matured boro paddy should be harvested immediately and do not left the harvested crop in the field as there is rainfall forecast for next five days. Under wet condition, dry the bundles well after harvest. Keep the bundles in upright position to avoid rotting/sprouting due to high humidity. If there is stagnation of water in the field as soon as possible drain out water from the field because it delay the maturity of the crop.
- Kharif Maize (Vegetative stage):- Infestation of stem borer may be observed in kharif maize. To control the pest, apply fenitrothion 50EC solution prepared by mixing 1.0 lit chemical in 200-250 litres of water for spraying in 7.5 bigha land. Alternatively, Endosulfan 1.5 lit/ha should be sprayed with the same volume of water. Light hoeing and earthing up should be done as and when necessary. Maintain adequate drainage channel of 25cm width, 15 cm deep at 6m distance to drain put excess amount of rain water from crop field.
- Sugarcane: Farmers are advised to go for stripping and propping operation in sugarcane crop i.e. mechanical support to the crop so that strong wind and heavy rain cannot damage the crop from lodging. To control red rot disease of sugarcane water stagnation in the field should be avoided and rouging of the affected plants should be practiced. Avoid spraying of fertilizers and chemicals in rainy days.
- Orchard (Fruit crops): Provide mechanical support to the crops like banana, citrus, papaya etc. and make arrangements to drain out excess water from the fields. Harvest the matured vegetable and fruits and transfer it to a safer location. Transfer the seedlings of fruit crops, flower crops, vegetable crops etc. to a safer location. In case if the seedling cannot be transferred, make provisions for firm temporary sheds (made of bamboo and net or plastic).
- Livestock (Various):- Care should be taken to provide proper de-worming medicines along with mixtures of essential body salts to the farm animals during monsoon. Calves are to be de-wormed as early as 21 days with Piperzine (@110-130 mg per kg body weight) against round worm. Adult cow/buffalo/goat

should be de-wormed preferably with Fenbendazole (@ 7 mg/ kg body weight). Consult with local veterinarian before administering medication.

- Fishery (various):- As sufficient amount of water has found to be accumulated in inland pond under fisheries, stocking with fingerlings or carried over seeds of 15 cm size @ 5000 per hectare of water surface may be advocated. For composite fish farming, stocking density for different species per ha area are: Rahu 750 Nos., Silver carp 1000 Nos., Catla 750 Nos., Grass carp 500 Nos., Mrigal 1000 Nos., and Common carp 1000 Nos.

27-06-2022/(0800 to 0826) GMT
27-06-2022/(1330 to 1356) IST

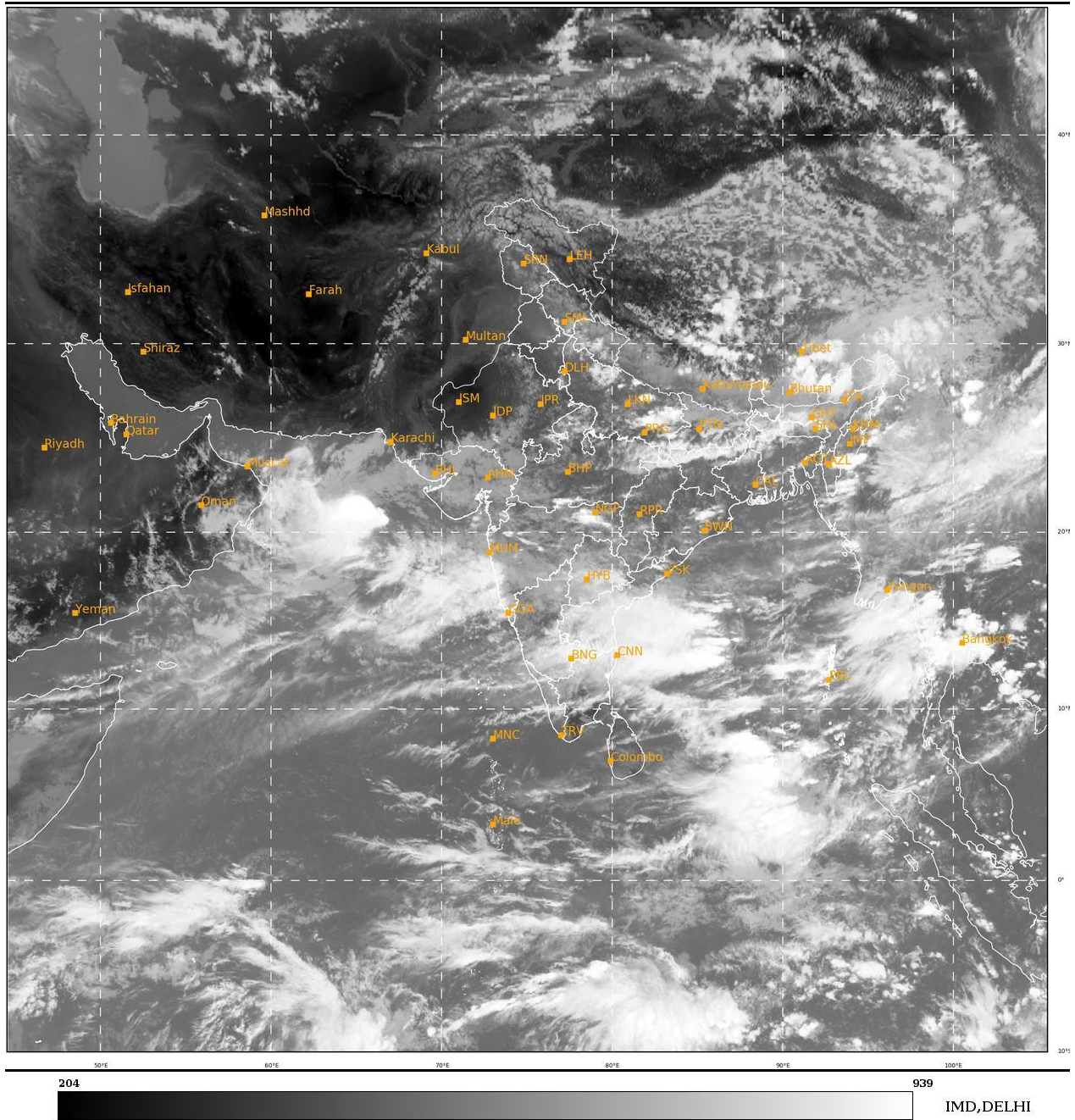


Figure: 1. Latest available satellite picture as on 27 Jun 2022 at 1356 Hrs (IST). (Source: IMD).

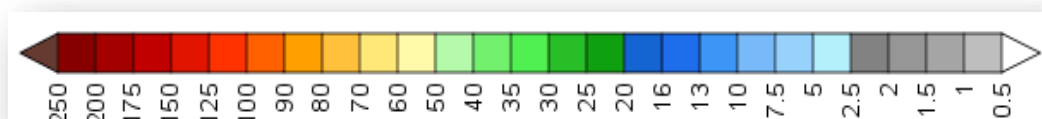
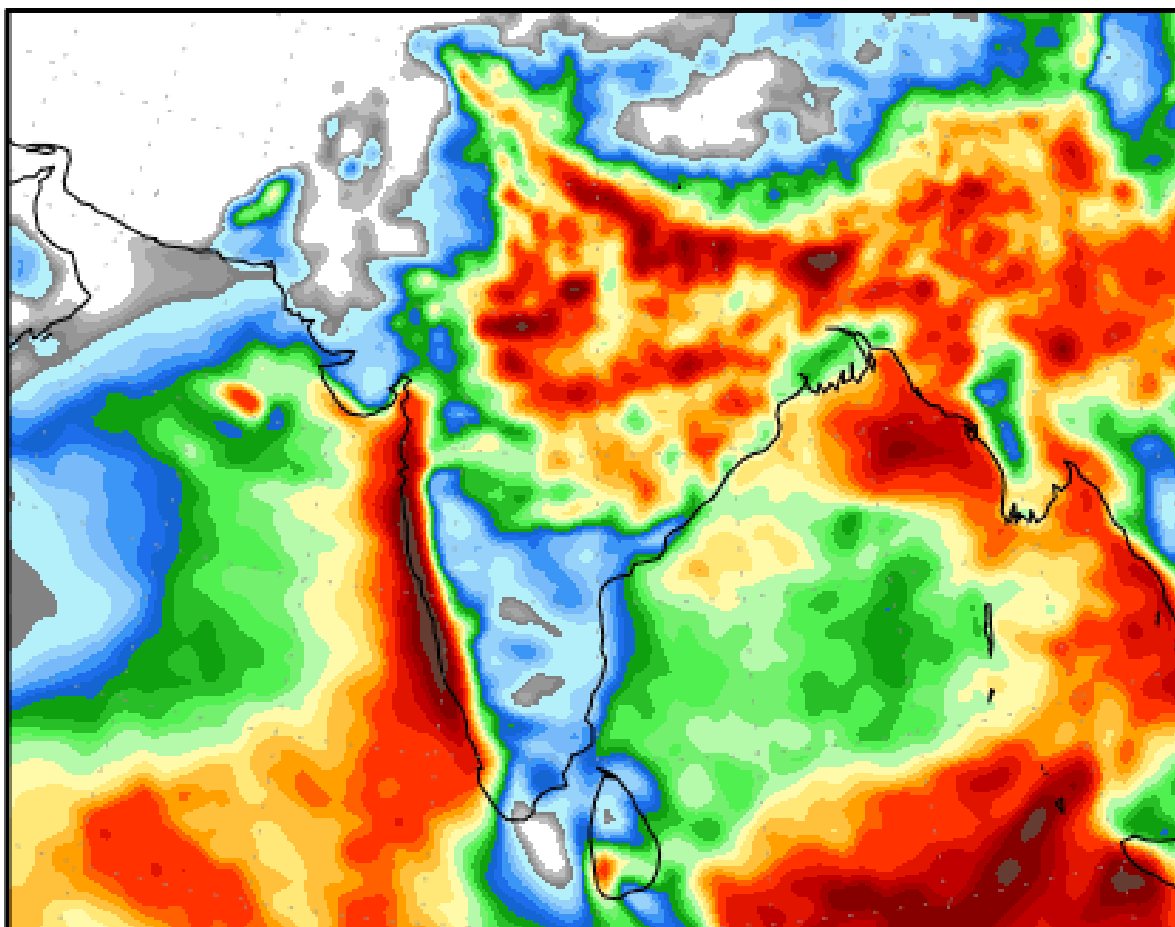


Figure:2. Precipitation forecast for 27 Jun to 05 Jul 2022 (Source: NOAA NCEP).

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